

**GORDIAN**<sup>®</sup>

# **Job Order Contract Construction Task Catalog<sup>®</sup>**

CSI Division 01-43 November 2023

**County of San Mateo**

**Plumbing**





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## **CTC Information:**

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in November 2023.
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## **The Unit Prices Include:**

### **LABOR COSTS:**

- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.
- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security and Medicare taxes, worker's compensation, unemployment insurance and employee benefits.

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- ☑ Labor costs are based on workers familiar with and skilled in the performance of the task following OSHA requirements.

### **EQUIPMENT COSTS:**

- ☑ Equipment costs include all equipment required to accomplish the task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, pile drivers, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

### **MATERIAL COSTS:**

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.

## **Complete and In-Place Construction:**

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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- ☑ Unit prices for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) that are required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, flashing, pitch pockets, skylights, curbs, roofing, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibration, balancing and the like required to ensure proper installation, construction and performance (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing, others as required). Use of owner supplied materials, equipment or tying into existing equipment/piping may justify testing, balancing, etc.

### Demolition:

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 stories into a truck, dumpster, or to an owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a

separate demolition task, unless the component alone must be demolished to accomplish the task (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the task; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).

- ☑ The description "replace" includes the demolition of the existing item and the installation of the new item.
- ☑ The descriptions "remove and relocate" or "remove and reinstall" includes the removal, cleaning of item and installation of the existing item in either the same location or another location.
- ☑ The description "reinstall" includes the cleaning and installation of the existing item.
- ☑ Salvageable materials remain the property of the Owner and shall be turned over as directed when specified in the Job Order.

### The Adjustment Factors Include:

#### BUSINESS COSTS:

- ☑ Overhead costs, including, unless specifically excluded in the Contract Documents, but not limited to;
  - home office overhead
  - insurance, bonds, and indemnification
  - project meetings, training, management and supervision
  - mobilization and close-out for the contract and each Job Order and
  - project office staff and equipment.
- ☑ Profit.
- ☑ Subcontractor's overhead and profit.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Employee or Subcontractor's wage rates that exceed the prevailing wage rates.

- ☑ Fringe benefits, payroll taxes, worker's compensation, insurance costs and any other payment mandated by law in connection with labor that exceeds the labor rate allowances.
- ☑ Cost of financing the work.
- ☑ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

### **CONSTRUCTION RELATED COSTS:**

- ☑ Services required to obtain filings and permits.
- ☑ Preparation and modification of proposals, sketches, drawings, submittals, as-built drawings, CADD drawings, microfilm, and other project records.
- ☑ Incidental engineering and architectural services.
- ☑ Office trailer and portable toilets for Contractor's use.
- ☑ Construction vehicles such as pick-up trucks, utility trucks, vans, flat bed trucks, tractors, trailers, etc.
- ☑ Storage devices or items such as gang boxes and containers for Contractor's tools, equipment and materials.
- ☑ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☑ Meeting Owner security requirements.
- ☑ Excess waste including roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, siding, concrete, etc. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, wall or ceiling attached or fastened devices or furnishings, safes or other furniture requiring disassembly).

- ☑ Sealing, windows, and openings with plastic to contain construction dust and debris within the work area.
- ☑ Daily clean-up.
- ☑ Final professional project clean-up.
- ☑ Working in extreme temperatures (below or above normal) or adverse conditions such as excessive rain, wind, sleet or snow.
- ☑ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☑ Costs resulting from productivity loss.
- ☑ Differences in project size; complexity and location.
- ☑ All costs for other than discreet items of work specifically required to complete a particular Job Order.

### **PRICE VARIATIONS:**

- ☑ Contractors may find differences in labor, equipment and material costs due to certain economic factors. Variations in labor cost can also result from labor efficiency, labor restrictions, working conditions and local work rules. Variations in material costs can also result from the quantity of material purchased, the existing relationship with suppliers, and because the materials have been discontinued or have become obsolete.
- ☑ While diligent effort is made to provide accurate and reliable up-to-date pricing, it is the responsibility of the Contractor to review and analyze the unit prices, and to calculate their Adjustment Factors accordingly, prior to bidding.

### **GENERAL COSTS:**

- ☑ This list is not exhaustive and is intended to provide general examples of cost items to be included in the Contractor's Adjustment Factor as defined in the Contract.
- ☑ The only compensation to be paid to a Contractor for the unit price tasks will be:

## Using The Construction Task Catalog®

Published Unit Price	X	Installation (or Demolition) Quantity	X	Appropriate Adjustment Factor
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- ☑ No additional payments of any kind whatsoever will be made. All costs not included in the unit prices must be part of the Adjustment Factors.

## General Interpretations:

### WORKING HEIGHT:

- ☑ Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- ☑ Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

### FIELD ENGINEERING:

- ☑ Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical controls.

### ASSEMBLIES:

- ☑ Assembly unit prices take precedence over individual component pricing.

### TESTING:

- ☑ Contractor will be paid for testing existing material, as required by the technical specifications and as directed by the Owner (record tests) at the unit price for the appropriate task. The cost of process quality control testing routinely performed by the Contractor is included in the unit prices for the individual tasks.

### MISCELLANEOUS:

- ☑ For the purpose of calculating the quantity of a task, quantities are calculated on a per project basis. The quantity so determined shall be used for the task and all appropriate modifiers, unless the task states otherwise.
- ☑ Whenever there are alternative tasks that may be selected to complete work the Contractor shall select the most practical and economical tasks available (e.g. rental of equipment by weeks or months rather than days or painting by roller or spray rather than brush).
- ☑ Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- ☑ Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.
- ☑ Whenever a material, article or piece of equipment is identified in the CTC or in the specifications by reference to manufacturers' or vendors' names,



trade names, catalogue numbers, or make, the identification is intended to establish a standard. Any material, article or equipment of another manufacturer or vendor which performs satisfactorily the duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Owner, the material, article or equipment so proposed is of equal quality, substance and function. The Contractor shall not provide, furnish or install any proposed material, article or equipment without the prior written approval of the Owner. The burden of proof and all costs related thereto concerning the "or equal" nature of the substitute item, whether approved or disapproved, shall be borne by the Contractor.

**SPECIFICATIONS:**

- Specifications for tasks shall be interpreted as follows: All labor, material, equipment, spare parts, services, and work required by a specification shall be considered part of the unit price, unless the task description or technical specifications state otherwise.

**Useful Information:**

**UNIT OF MEASURE DEFINITIONS:**

**ACR** – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** -

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Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLf** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

**MATERIAL WEIGHTS:**

**EARTHEN MATERIAL**

- The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170

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Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

**1 Ton** = 2000 Pounds = 907.185 Kilograms

**1 Yard** = 3 Feet = 0.9144 Meters

### BULK FACTORS FOR DEMOLITION:

The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

### CONVERSIONS:

**1 Acre** = 43,560 Square Feet = 4046.8 Square Meters

**1 Board Foot** = 12" x 12" x 1" = 144 Cubic Inches

**1 Centimeter** = 0.3937 Inches = 0.0328 Feet

**1 Cubic Foot** = 0.03704 Cubic Yards = 0.02832 Cubic Meters

**1 Cubic Meter** = 1.3080 Cubic Yards = 35.3147 Cubic Feet

**1 Cubic Yard** = 27 Cubic Feet = 0.7646 Cubic Meters

**1 Foot** = 12 Inches = 0.3048 Meters

**1 Inch** = 2.54 Centimeters = 0.0254 Meters

**1 Kilogram** = 2.2046 Pounds

**1 Kilometer** = 0.6214 Miles = 3280 Feet

**1 Meter** = 100 Centimeters = 3.2808 Feet

**1 Mile** = 5280 Feet = 1.6093 Kilometers

**1 Pound** = 0.4536 Kilograms

**1 Square Foot** = 144 Square Inches = .0929 Square Meters

**1 Square Meter** = 1.1960 Square Yards = 10.7639 Square Feet

**1 Square Yard** = 9 Square Feet = 0.8361 Square Meters

Gage No.	Sheet Metal Thickness (inches)			
	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

### STANDARD GEOMETRY:

#### Circle

- Circumference =  $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area =  $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

#### Cylinder

- Volume =  $(\pi \text{ radius}^2) \text{height}$
- Surface Area =  $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{height}$

#### Sphere

- Volume =  $(4 \pi \text{ radius}^3) / 3$
- Surface Area =  $4 \pi \text{ radius}^2$

**$\pi = 3.14159$**

#### United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.

## **TRADEMARKS**

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQC, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners

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<b>General Requirements</b>		<b>01</b>
Price and Payment Procedures		01 20
Unit Prices		01 22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
------------------------------	---------------------------	-------------------------

## 01 General Requirements

### 01 20 Price and Payment Procedures <sup>(01)</sup>

#### 01 22 Unit Prices <sup>(01 20)</sup>

Note: Provide digital copies of photographs.

#### 01 22 16 Unit Price Payment <sup>(01 22)</sup>

##### 01 22 16 00-0001 Reimbursable Fees <sup>(01 22 16)</sup>

Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0002	EA	Reimbursable Fees.....	1.00
		Note: Reimbursable Fees will be paid to the contractor for eligible costs as directed by Owner. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee. If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt, invoice, or proof of payment shall be submitted with the Price Proposal.	

##### 01 22 16 00-0003 Negotiated Travel Costs <sup>(01 22 16)</sup>

Note: To be used only at the request of authorized personal for non-commuting travel costs.

01 22 16 00-0004	EA	Negotiated Travel Costs.....	1.00
		Note: Supporting documentation must be included with each Work Order.	

#### 01 22 20 Wage Rates <sup>(01 22)</sup>

##### 01 22 20 00-0001 Local Labor/Wage Rates <sup>(01 22 20)</sup>

Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.

01 22 20 00-0002	HR	Asbestos Removal Worker.....	86.30
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	4.32
		For Apprentice, Deduct	-17.26
01 22 20 00-0003	HR	Insulator.....	144.31
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	7.22
		For Apprentice, Deduct	-28.86
01 22 20 00-0004	HR	Boilermaker.....	107.64
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.38
		For Apprentice, Deduct	-21.53
01 22 20 00-0005	HR	Brick Layer.....	109.05
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.45
		For Apprentice, Deduct	-21.81
01 22 20 00-0006	HR	Carpenter.....	125.77
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	6.29
		For Apprentice, Deduct	-25.15
01 22 20 00-0007	HR	Carpet, Linoleum.....	121.84
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	6.09
		For Apprentice, Deduct	-24.37
01 22 20 00-0008	HR	Cement Mason.....	90.34
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	4.52
		For Apprentice, Deduct	-18.07
01 22 20 00-0009	HR	Drywall Finisher.....	121.06
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	6.05
		For Apprentice, Deduct	-24.21
01 22 20 00-0010	HR	Electrician.....	153.05
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	7.65
		For Apprentice, Deduct	-30.61
01 22 20 00-0011	HR	Equipment Operator, Crane (Group 1-A).....	117.37
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0012	HR	Equipment Operator, Crane (Group 2-A).....	115.00
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.75
01 22 20 00-0013	HR	Equipment Operator, Crane (Group 3-A).....	109.07
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0014	HR	Equipment Operator, Medium (Group 3).....	112.17
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
		For Foreperson, Add	5.61
		For Apprentice, Deduct	-22.43
01 22 20 00-0015	HR	Equipment Operator, Medium (Group 4).....	110.31
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	
01 22 20 00-0016	HR	Equipment Operator, Medium (Group 5).....	108.61
		Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price and Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0017 HR Equipment Operator, Light (Group 6) .....	106.83	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.34	
For Apprentice, Deduct	-21.37	
01 22 20 00-0018 HR Equipment Operator, Light (Group 7) .....	105.30	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0019 HR Equipment Operator, Light (Group 8) .....	103.78	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0020 HR Glazier .....	115.78	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.79	
For Apprentice, Deduct	-23.16	
01 22 20 00-0021 HR Laborer .....	83.76	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0022 HR Lather.....	118.17	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.91	
For Apprentice, Deduct	-23.63	
01 22 20 00-0023 HR Marble Setter .....	118.17	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.91	
For Apprentice, Deduct	-23.63	
01 22 20 00-0024 HR Millwright.....	117.70	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.89	
For Apprentice, Deduct	-23.54	
01 22 20 00-0025 HR Mold Removal Worker .....	87.79	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.39	
For Apprentice, Deduct	-17.56	
01 22 20 00-0026 HR Painter, Ordinary.....	97.52	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.88	
For Apprentice, Deduct	-19.50	
01 22 20 00-0027 HR Painter, Structural Steel.....	100.90	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.05	
For Apprentice, Deduct	-20.18	
01 22 20 00-0028 HR Paperhanger.....	97.52	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.88	
For Apprentice, Deduct	-19.50	
01 22 20 00-0029 HR Pile Drivers .....	127.20	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.36	
For Apprentice, Deduct	-25.44	
01 22 20 00-0030 HR Plasterer .....	109.55	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.48	
For Apprentice, Deduct	-21.91	
01 22 20 00-0031 HR Plumber .....	151.74	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.59	
For Apprentice, Deduct	-30.35	
01 22 20 00-0032 HR Powderman.....	88.15	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.41	
For Apprentice, Deduct	-17.63	
01 22 20 00-0033 HR Rodman (Reinforcing)/Ornamental Steel Worker .....	107.91	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.40	
For Apprentice, Deduct	-21.58	
01 22 20 00-0034 HR Roofer, Composite.....	116.37	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.82	
For Apprentice, Deduct	-23.27	
01 22 20 00-0035 HR Roofer, Metal .....	128.00	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	6.40	
For Apprentice, Deduct	-25.60	
01 22 20 00-0036 HR Roofer, Tile/Slate .....	112.76	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.64	
For Apprentice, Deduct	-22.55	
01 22 20 00-0037 HR Sheet Metal Worker .....	152.29	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.61	
For Apprentice, Deduct	-30.46	
01 22 20 00-0038 HR Sprinkler Installer .....	142.06	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.10	
For Apprentice, Deduct	-28.41	
01 22 20 00-0039 HR Steam / Pipe Fitter .....	151.74	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	7.59	
For Apprentice, Deduct	-30.35	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0040 HR Stone Mason.....	109.05	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.45	
For Apprentice, Deduct	-21.81	
01 22 20 00-0041 HR Iron Worker (Structural) .....	111.60	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.58	
For Apprentice, Deduct	-22.32	
01 22 20 00-0042 HR Tile Layer .....	100.90	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.05	
For Apprentice, Deduct	-20.18	
01 22 20 00-0043 HR Terrazzo Worker.....	110.24	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	5.51	
For Apprentice, Deduct	-22.05	
01 22 20 00-0044 HR Truck Driver, Light (Group 1).....	90.04	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.50	
For Apprentice, Deduct	-18.01	
01 22 20 00-0045 HR Truck Driver, Medium (Group 2).....	90.47	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0046 HR Truck Driver, Heavy (Group 3).....	90.90	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreperson, Add	4.55	
For Apprentice, Deduct	-18.18	
01 22 20 00-0047 HR Truck Driver, Heavy (Group 4).....	91.40	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0048 HR Class I Diver .....	209.51	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0049 HR Class III Diver Tender .....	138.83	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0050 HR D1 Certified Welder .....	118.96	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<b>01 22 20 00-0051 Rates For Services (01 22 20)</b>		
01 22 20 00-0052 HR Watch/Guard Person, Unarmed.....	35.33	
01 22 20 00-0053 HR Watch/Guard Person, Armed.....	44.36	
01 22 20 00-0054 HR Surveyor (Rod Person).....	109.63	
01 22 20 00-0055 HR Senior Surveyor (Party Chief).....	120.74	
01 22 20 00-0056 HR Surveyor (Instrument person).....	114.01	
01 22 20 00-0057 HR On-Site Certified Materials Testing Technician.....	82.92	
01 22 20 00-0058 HR Certified Industrial Hygienist.....	133.60	
01 22 20 00-0059 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.66	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
01 22 20 00-0060 HR Fire Watch Laborer.....	83.76	
Note: Fire watchers shall be required whenever welding or cutting is performed in locations where other than a minor fire might develop, or any of the following conditions exist: (1) Appreciable combustible material, in building construction or contents, closer than 35 feet (10.7 m) to the point of operation. (2) Appreciable combustibles are more than 35 feet (10.7 m) away but are easily ignited by sparks. (3) Wall or floor openings within a 35-foot (10.7 m) radius expose combustible material in adjacent areas including concealed spaces in walls or floors. (4) Combustible materials are adjacent to the opposite side of metal partitions, walls, ceilings, or roofs and are likely to be ignited by conduction or radiation.		
<b>01 22 20 00-0061 Rates For Project Management Services (01 22 20)</b>		
01 22 20 00-0062 HR Project Manager .....	161.25	
<b>01 22 20 00-0063 Rates For Architectural And Engineering Services (01 22 20)</b>		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0064 HR Principal Architect.....	225.00	
01 22 20 00-0065 HR Senior Architect .....	200.00	
01 22 20 00-0066 HR Architect.....	150.00	
01 22 20 00-0067 HR Principal Engineer.....	222.50	
01 22 20 00-0068 HR Senior Engineer.....	172.50	
01 22 20 00-0069 HR Engineer .....	135.00	
01 22 20 00-0070 HR Draft Person.....	80.00	
<b>01 22 20 00-0071 Rates For Traffic Control (01 22 20)</b>		
01 22 20 00-0072 DAY Pilot Vehicle With Driver .....	1,067.13	
Note: Includes radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0073 HR Flagperson For Traffic Control .....	83.76	
<b>01 22 20 00-0074 Mobilize Equipment (01 22 20)</b>		
01 22 20 00-0075 HR Escort Vehicle With Driver .....	96.38	
01 22 20 00-0076 HR Transport Vehicle With Driver.....	139.03	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

### 01 22 23 Equipment Usage <sup>(01 22)</sup>

Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 22 20 00-0071 for traffic control (where required), 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.

01 22 23 00-0001	Aerial Equipment <sup>(01 22 23)</sup>	
01 22 23 00-0002	Man Lifts <sup>(01 22 23 00-0001)</sup>	
	Note: Excludes operator, delivery, set-up, and removal.	
01 22 23 00-0003	Telescoping Boom Man Lifts With Platform <sup>(01 22 23 00-0002)</sup>	
01 22 23 00-0004	Engine Powered, Telescoping Boom Man Lifts With Platform <sup>(01 22 23 00-0003)</sup>	
	Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0005	DAY 40' Engine Powered, Telescoping Boom Man Lift With Platform	489.86
	<i>For Four-Wheel Drive, Add</i>	110.22
01 22 23 00-0006	WK 40' Engine Powered, Telescoping Boom Man Lift With Platform	1,232.56
	<i>For Four-Wheel Drive, Add</i>	277.33
01 22 23 00-0007	MO 40' Engine Powered, Telescoping Boom Man Lift With Platform	2,765.35
	<i>For Four-Wheel Drive, Add</i>	622.20
01 22 23 00-0008	DAY 60' Engine Powered, Telescoping Boom Man Lift With Platform	718.99
	<i>For Four-Wheel Drive, Add</i>	161.77
01 22 23 00-0009	WK 60' Engine Powered, Telescoping Boom Man Lift With Platform	1,714.52
	<i>For Four-Wheel Drive, Add</i>	385.77
01 22 23 00-0010	MO 60' Engine Powered, Telescoping Boom Man Lift With Platform	3,752.98
	<i>For Four-Wheel Drive, Add</i>	844.42
01 22 23 00-0011	DAY 80' Engine Powered, Telescoping Boom Man Lift With Platform	1,398.48
	<i>For Four-Wheel Drive, Add</i>	314.66
01 22 23 00-0012	WK 80' Engine Powered, Telescoping Boom Man Lift With Platform	3,389.53
	<i>For Four-Wheel Drive, Add</i>	762.64
01 22 23 00-0013	MO 80' Engine Powered, Telescoping Boom Man Lift With Platform	7,110.90
	<i>For Four-Wheel Drive, Add</i>	1,599.95
01 22 23 00-0014	DAY 110' Engine Powered, Telescoping Boom Man Lift With Platform	1,991.05
	<i>For Four-Wheel Drive, Add</i>	447.99
01 22 23 00-0015	WK 110' Engine Powered, Telescoping Boom Man Lift With Platform	4,794.33
	<i>For Four-Wheel Drive, Add</i>	1,078.72
01 22 23 00-0016	MO 110' Engine Powered, Telescoping Boom Man Lift With Platform	11,946.31
	<i>For Four-Wheel Drive, Add</i>	2,687.92
01 22 23 00-0017	DAY 120' Engine Powered, Telescoping Boom Man Lift With Platform	2,425.61
	<i>For Four-Wheel Drive, Add</i>	545.76
01 22 23 00-0018	WK 120' Engine Powered, Telescoping Boom Man Lift With Platform	6,186.48
	<i>For Four-Wheel Drive, Add</i>	1,391.96
01 22 23 00-0019	MO 120' Engine Powered, Telescoping Boom Man Lift With Platform	14,063.78
	<i>For Four-Wheel Drive, Add</i>	3,164.35
01 22 23 00-0020	Articulating (Up/Over) Boom Man Lifts With Platform <sup>(01 22 23 00-0002)</sup>	
01 22 23 00-0021	Engine Powered, Articulating (Up/Over) Boom Man Lifts With Platform <sup>(01 22 23 00-0020)</sup>	
	Note: Diesel or dual fuel (gasoline or liquid propane gas). Four-wheel drive. For use on unpaved or paved surfaces.	
01 22 23 00-0022	DAY 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	434.36
01 22 23 00-0023	WK 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,089.86
01 22 23 00-0024	MO 34' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,621.97
01 22 23 00-0025	DAY 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	552.82
01 22 23 00-0026	WK 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,208.32
01 22 23 00-0027	MO 45' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,999.47
01 22 23 00-0028	DAY 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	710.78
01 22 23 00-0029	WK 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,642.68
01 22 23 00-0030	MO 60' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	3,672.34
01 22 23 00-0031	DAY 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	1,239.91
01 22 23 00-0032	WK 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,922.08
01 22 23 00-0033	MO 80' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	7,106.17
01 22 23 00-0034	DAY 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	2,408.74
01 22 23 00-0035	WK 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	5,686.20
01 22 23 00-0036	MO 125' Engine Powered, Articulating (Up/Over) Boom Man Lift With Platform	13,899.60
01 22 23 00-0037	Electric, Articulating (Up/Over) Boom Man Lifts With Platform <sup>(01 22 23 00-0020)</sup>	
	Note: For use on paved surfaces.	
01 22 23 00-0038	DAY 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	434.36
01 22 23 00-0039	WK 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,089.86
01 22 23 00-0040	MO 30' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,621.97
01 22 23 00-0041	DAY 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	434.36
01 22 23 00-0042	WK 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,089.86
01 22 23 00-0043	MO 35' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,621.97
01 22 23 00-0044	DAY 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	537.03
01 22 23 00-0045	WK 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,160.93
01 22 23 00-0046	MO 40' Electric, Articulating (Up/Over) Boom Man Lift With Platform	2,882.59
01 22 23 00-0047	DAY 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	537.03
01 22 23 00-0048	WK 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform	1,160.93





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0049 MO 45' Electric, Articulating (Up/Over) Boom Man Lift With Platform .....	2,882.59	
<b>01 22 23 00-0050 Platform Lifts</b> (01 22 23 00-0001) Note: Excludes operator, delivery, set-up, and removal.		
<b>01 22 23 00-0051 Electric, Scissor Platform Lifts</b> (01 22 23 00-0050) Note: For use on paved surfaces.		
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift .....	182.64	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift .....	365.29	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift .....	747.18	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift .....	199.25	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift .....	398.50	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift .....	796.99	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift .....	257.36	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift .....	514.72	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift .....	1,104.17	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift .....	332.08	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift .....	655.86	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift .....	1,452.85	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift .....	356.99	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift .....	697.37	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift .....	1,577.38	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift .....	464.91	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift .....	1,153.98	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift .....	3,212.87	
<b>01 22 23 00-0070 Engine Powered, Scissor Platform Lifts</b> (01 22 23 00-0050) Note: Diesel or dual fuel (gasoline or liquid propane gas). Two-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift .....	431.82	
<i>For Four-Wheel Drive, Add</i>	86.36	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift .....	844.45	
<i>For Four-Wheel Drive, Add</i>	168.89	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift .....	2,063.14	
<i>For Four-Wheel Drive, Add</i>	412.63	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift .....	441.42	
<i>For Four-Wheel Drive, Add</i>	88.28	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift .....	1,007.58	
<i>For Four-Wheel Drive, Add</i>	201.52	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift .....	2,207.08	
<i>For Four-Wheel Drive, Add</i>	441.42	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift .....	489.40	
<i>For Four-Wheel Drive, Add</i>	97.88	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift .....	1,122.73	
<i>For Four-Wheel Drive, Add</i>	224.55	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift .....	2,494.96	
<i>For Four-Wheel Drive, Add</i>	498.99	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift .....	518.18	
<i>For Four-Wheel Drive, Add</i>	103.64	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift .....	1,209.10	
<i>For Four-Wheel Drive, Add</i>	241.82	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift .....	2,974.76	
<i>For Four-Wheel Drive, Add</i>	594.95	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift .....	969.20	
<i>For Four-Wheel Drive, Add</i>	193.84	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift .....	2,130.31	
<i>For Four-Wheel Drive, Add</i>	426.06	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift .....	5,239.42	
<i>For Four-Wheel Drive, Add</i>	1,047.88	
<b>01 22 23 00-0086 Personnel Lifts</b> (01 22 23 00-0001) Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift .....	162.30	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift .....	459.84	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift .....	928.70	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift .....	225.41	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift .....	477.87	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift .....	1,622.97	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift .....	378.69	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift .....	919.68	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift .....	2,686.92	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift .....	405.74	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift .....	1,009.85	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift .....	3,038.56	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift .....	216.40	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift .....	432.79	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift .....	865.58	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift .....	216.40	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift .....	432.79	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift .....	899.85	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price and Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 22 23 00-0105</b>	<b>Bucket Trucks</b> <small>(01 22 23 00-0001)</small>	
Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' To 33' Bucket Truck With Full-Time Operator .....	1,426.10	
For Equipment Without Operator, Deduct .....	-727.16	
01 22 23 00-0107 WK 29' To 33' Bucket Truck With Full-Time Operator .....	5,732.63	
For Equipment Without Operator, Deduct .....	-3,635.81	
01 22 23 00-0108 MO 29' To 33' Bucket Truck With Full-Time Operator .....	21,092.55	
For Equipment Without Operator, Deduct .....	-15,755.19	
01 22 23 00-0109 DAY 38' To 41' Bucket Truck With Full-Time Operator .....	1,515.06	
For Equipment Without Operator, Deduct .....	-727.16	
01 22 23 00-0110 WK 38' To 41' Bucket Truck With Full-Time Operator .....	6,018.56	
For Equipment Without Operator, Deduct .....	-3,635.81	
01 22 23 00-0111 MO 38' To 41' Bucket Truck With Full-Time Operator .....	21,855.03	
For Equipment Without Operator, Deduct .....	-15,755.19	
01 22 23 00-0112 DAY 45' To 48' Bucket Truck With Full-Time Operator .....	1,743.80	
For Equipment Without Operator, Deduct .....	-727.16	
01 22 23 00-0113 WK 45' To 48' Bucket Truck With Full-Time Operator .....	6,431.57	
For Equipment Without Operator, Deduct .....	-3,635.81	
01 22 23 00-0114 MO 45' To 48' Bucket Truck With Full-Time Operator .....	22,744.59	
For Equipment Without Operator, Deduct .....	-15,755.19	
01 22 23 00-0115 DAY 62' Bucket Truck With Full-Time Operator .....	2,252.12	
For Equipment Without Operator, Deduct .....	-727.16	
01 22 23 00-0116 WK 62' Bucket Truck With Full-Time Operator .....	8,083.61	
For Equipment Without Operator, Deduct .....	-3,635.81	
01 22 23 00-0117 MO 62' Bucket Truck With Full-Time Operator .....	27,192.39	
For Equipment Without Operator, Deduct .....	-15,755.19	
01 22 23 00-0118 DAY 85' Bucket Truck With Full-Time Operator .....	2,506.28	
For Equipment Without Operator, Deduct .....	-727.16	
01 22 23 00-0119 WK 85' Bucket Truck With Full-Time Operator .....	8,973.17	
For Equipment Without Operator, Deduct .....	-3,635.81	
01 22 23 00-0120 MO 85' Bucket Truck With Full-Time Operator .....	30,369.39	
For Equipment Without Operator, Deduct .....	-15,755.19	
<b>01 22 23 00-0121</b>	<b>Air Equipment</b> <small>(01 22 23)</small>	
<b>01 22 23 00-0122</b>	<b>Air Compressors</b> <small>(01 22 23 00-0121)</small>	
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0123 DAY 100 CFM Diesel Powered Portable Air Compressor .....	175.84	
01 22 23 00-0124 WK 100 CFM Diesel Powered Portable Air Compressor .....	527.51	
01 22 23 00-0125 MO 100 CFM Diesel Powered Portable Air Compressor .....	1,465.31	
01 22 23 00-0126 DAY 130 CFM Diesel Powered Portable Air Compressor .....	211.00	
01 22 23 00-0127 WK 130 CFM Diesel Powered Portable Air Compressor .....	621.29	
01 22 23 00-0128 MO 130 CFM Diesel Powered Portable Air Compressor .....	1,758.38	
01 22 23 00-0129 DAY 185 CFM Diesel Powered Portable Air Compressor .....	281.34	
01 22 23 00-0130 WK 185 CFM Diesel Powered Portable Air Compressor .....	633.02	
01 22 23 00-0131 MO 185 CFM Diesel Powered Portable Air Compressor .....	1,394.98	
01 22 23 00-0132 DAY 375 CFM Diesel Powered Portable Air Compressor .....	398.56	
01 22 23 00-0133 WK 375 CFM Diesel Powered Portable Air Compressor .....	1,008.14	
01 22 23 00-0134 MO 375 CFM Diesel Powered Portable Air Compressor .....	2,403.11	
01 22 23 00-0135 DAY 600 CFM Diesel Powered Portable Air Compressor .....	886.22	
01 22 23 00-0136 WK 600 CFM Diesel Powered Portable Air Compressor .....	2,133.50	
01 22 23 00-0137 MO 600 CFM Diesel Powered Portable Air Compressor .....	5,317.33	
01 22 23 00-0138 DAY 750 CFM Diesel Powered Portable Air Compressor .....	1,066.75	
01 22 23 00-0139 WK 750 CFM Diesel Powered Portable Air Compressor .....	2,625.84	
01 22 23 00-0140 MO 750 CFM Diesel Powered Portable Air Compressor .....	6,447.38	
01 22 23 00-0141 DAY 825 CFM Diesel Powered Portable Air Compressor .....	1,066.75	
01 22 23 00-0142 WK 825 CFM Diesel Powered Portable Air Compressor .....	2,625.84	
01 22 23 00-0143 MO 825 CFM Diesel Powered Portable Air Compressor .....	6,447.38	
01 22 23 00-0144 DAY 1,300 CFM Diesel Powered Portable Air Compressor .....	1,242.58	
01 22 23 00-0145 WK 1,300 CFM Diesel Powered Portable Air Compressor .....	2,785.27	
01 22 23 00-0146 MO 1,300 CFM Diesel Powered Portable Air Compressor .....	7,427.38	
01 22 23 00-0147 DAY 1,600 CFM Diesel Powered Portable Air Compressor .....	1,547.37	
01 22 23 00-0148 WK 1,600 CFM Diesel Powered Portable Air Compressor .....	3,481.58	
01 22 23 00-0149 MO 1,600 CFM Diesel Powered Portable Air Compressor .....	9,284.22	
<b>01 22 23 00-0150</b>	<b>Portable Negative Air Machines</b> <small>(01 22 23 00-0121)</small>	
Note: A Negative Air Machine is used in a sealed containment area to filter air and exhaust the filtered air through ducting to a location outside the sealed containment area. Includes delivery to job site and pick-up when complete. Excludes all filters and duct.		
01 22 23 00-0151 DAY Up To 2,000 CFM, Portable Negative Air Machine .....	120.46	
01 22 23 00-0152 WK Up To 2,000 CFM, Portable Negative Air Machine .....	494.73	
01 22 23 00-0153 MO Up To 2,000 CFM, Portable Negative Air Machine .....	1,494.94	
01 22 23 00-0154 EA First Stage Pre-Filter For Portable Negative Air Machines .....	15.71	
01 22 23 00-0155 EA Second Stage Pre-Filter For Portable Negative Air Machines .....	38.73	
01 22 23 00-0156 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Negative Air Machines .....	208.37	
01 22 23 00-0157 LF Flexible Exhaust Duct For Portable Negative Air Machines .....	2.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 22 23 00-0158 Portable Air Scrubbers** (01 22 23 00-0121)

Note: A Portable Air Scrubber filters and recirculates the filtered air into the same space and does not use ducting to exhaust the filtered air to a different location. Includes delivery to job site and pick-up when complete. Excludes all filters.

01 22 23 00-0159	DAY	Up To 1,000 CFM, Portable Air Scrubber	100.57	
01 22 23 00-0160	WK	Up To 1,000 CFM, Portable Air Scrubber	418.04	
01 22 23 00-0161	MO	Up To 1,000 CFM, Portable Air Scrubber	1,157.17	
01 22 23 00-0162	DAY	>1,000 to 2,000 CFM, Portable Air Scrubber	127.23	
01 22 23 00-0163	WK	>1,000 to 2,000 CFM, Portable Air Scrubber	527.09	
01 22 23 00-0164	MO	>1,000 to 2,000 CFM, Portable Air Scrubber	1,544.92	
01 22 23 00-0165	DAY	>2,000 To 5,000 CFM, Portable Air Scrubber	163.58	
01 22 23 00-0166	WK	>2,000 To 5,000 CFM, Portable Air Scrubber	696.73	
01 22 23 00-0167	MO	>2,000 To 5,000 CFM, Portable Air Scrubber	1,950.84	
01 22 23 00-0168	EA	First Stage Pre-Filter For Portable Air Scrubbers	22.98	
01 22 23 00-0169	EA	Second Stage Pre-Filter For Portable Air Scrubbers	32.67	
01 22 23 00-0170	EA	High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Portable Air Scrubbers	353.77	

**01 22 23 00-0171 Compaction And Paving Equipment** (01 22 23)

**01 22 23 00-0172 Pavers And Rollers** (01 22 23 00-0171)

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

**01 22 23 00-0173 Pavers** (01 22 23 00-0172)

01 22 23 00-0174	DAY	10' Wide Paving Machine With Full-Time Operator	4,302.90	
		<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0175	WK	10' Wide Paving Machine With Full-Time Operator	18,108.99	
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0176	MO	10' Wide Paving Machine With Full-Time Operator	68,094.47	
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58	

**01 22 23 00-0177 Ride-On Self-Propelled, Rubber Tire Rollers** (01 22 23 00-0172)

01 22 23 00-0178	DAY	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,296.88	
		<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0179	WK	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	5,695.25	
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0180	MO	10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	22,723.56	
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0181	DAY	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	1,451.07	
		<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0182	WK	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	6,841.84	
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0183	MO	15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator	24,454.66	
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0184	DAY	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	1,458.08	
		<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0185	WK	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	6,386.28	
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0186	MO	30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator	24,791.07	
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58	

**01 22 23 00-0187 Ride-On Self-Propelled, Padfoot Rollers** (01 22 23 00-0172)

01 22 23 00-0188	DAY	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,359.96	
		<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0189	WK	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	5,769.54	
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0190	MO	5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	23,151.08	
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0191	DAY	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,654.32	
		<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0192	WK	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,386.26	
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0193	MO	8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	25,029.35	
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0194	DAY	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	1,724.40	
		<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0195	WK	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	6,806.79	
		<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0196	MO	10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator	26,262.85	
		<i>For Equipment Without Operator, Deduct</i>	-19,443.58	

**01 22 23 00-0197 Towed, Padfoot Rollers** (01 22 23 00-0172)

01 22 23 00-0198	DAY	48" Wide, 40" Diameter, Towed Padfoot Roller	133.16	
01 22 23 00-0199	WK	48" Wide, 40" Diameter, Towed Padfoot Roller	385.47	
01 22 23 00-0200	MO	48" Wide, 40" Diameter, Towed Padfoot Roller	1,135.38	
01 22 23 00-0201	DAY	60" Wide, 60" Diameter, Towed Padfoot Roller	168.20	
01 22 23 00-0202	WK	60" Wide, 60" Diameter, Towed Padfoot Roller	469.57	
01 22 23 00-0203	MO	60" Wide, 60" Diameter, Towed Padfoot Roller	1,997.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 22 23 00-0204</b> <b>Static Rollers</b> <small>(01 22 23 00-0172)</small>		
01 22 23 00-0205    DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	1,395.00	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0206    WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	6,070.90	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0207    MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator.....	24,139.28	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0208    DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator .....	1,549.19	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0209    WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator .....	6,491.41	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0210    MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator .....	25,302.69	
For Equipment Without Operator, Deduct	-19,443.58	
<b>01 22 23 00-0211</b> <b>Ride-On Self-Propelled, Smooth Drum Vibratory Rollers</b> <small>(01 22 23 00-0172)</small>		
01 22 23 00-0212    DAY 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	1,170.73	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0213    WK 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	5,285.95	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0214    MO 1 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	21,546.13	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0215    DAY 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	1,275.86	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0216    WK 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	5,601.33	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0217    MO 3 Ton, Double Smooth Drums, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	22,387.15	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0218    DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	1,345.94	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0219    WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	5,811.59	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0220    MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	22,947.83	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0221    DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	1,437.05	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0222    WK 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	6,077.91	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0223    MO 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	23,641.67	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0224    DAY 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	1,619.28	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0225    WK 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	6,610.56	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0226    MO 11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator .....	25,050.38	
For Equipment Without Operator, Deduct	-19,443.58	
<b>01 22 23 00-0227</b> <b>Steel Roadway Plates</b> <small>(01 22 23 00-0171)</small>		
Note: 3 day minimum. Excludes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0228 for for placement (set-up) from truck and removal from ground (load on truck), 01 71 13 00-0001 for material delivery on truck.		
01 22 23 00-0228    EA Placement And Removal Of Steel Roadway Plates.....	55.18	
01 22 23 00-0229    DAY 1" x 4' x 8' Steel Plate .....	44.12	
01 22 23 00-0230    WK 1" x 4' x 8' Steel Plate .....	104.18	
01 22 23 00-0231    MO 1" x 4' x 8' Steel Plate .....	137.10	
01 22 23 00-0232    DAY 1" x 4' x 10' Steel Plate .....	58.83	
01 22 23 00-0233    WK 1" x 4' x 10' Steel Plate .....	132.36	
01 22 23 00-0234    MO 1" x 4' x 10' Steel Plate .....	161.78	
01 22 23 00-0235    DAY 1" x 5' x 10' Steel Plate .....	61.28	
01 22 23 00-0236    WK 1" x 5' x 10' Steel Plate .....	138.49	
01 22 23 00-0237    MO 1" x 5' x 10' Steel Plate .....	367.68	
01 22 23 00-0238    DAY 1" x 6' x 8' Steel Plate .....	39.22	
01 22 23 00-0239    WK 1" x 6' x 8' Steel Plate .....	88.24	
01 22 23 00-0240    MO 1" x 6' x 8' Steel Plate .....	235.32	
01 22 23 00-0241    DAY 1" x 6' x 10' Steel Plate .....	73.54	
01 22 23 00-0242    WK 1" x 6' x 10' Steel Plate .....	96.82	
01 22 23 00-0243    MO 1" x 6' x 10' Steel Plate .....	258.60	
01 22 23 00-0244    DAY 1" x 6' x 12' Steel Plate .....	102.95	
01 22 23 00-0245    WK 1" x 6' x 12' Steel Plate .....	131.75	
01 22 23 00-0246    MO 1" x 6' x 12' Steel Plate .....	356.65	
01 22 23 00-0247    DAY 1" x 8' x 10' Steel Plate .....	64.96	
01 22 23 00-0248    WK 1" x 8' x 10' Steel Plate .....	145.85	
01 22 23 00-0249    MO 1" x 8' x 10' Steel Plate .....	388.52	
01 22 23 00-0250    DAY 1" x 8' x 12' Steel Plate .....	117.66	
01 22 23 00-0251    WK 1" x 8' x 12' Steel Plate .....	145.85	
01 22 23 00-0252    MO 1" x 8' x 12' Steel Plate .....	705.95	
01 22 23 00-0253    DAY 1" x 8' x 16' Steel Plate .....	156.88	
01 22 23 00-0254    WK 1" x 8' x 16' Steel Plate .....	352.97	
01 22 23 00-0255    MO 1" x 8' x 16' Steel Plate .....	941.26	
01 22 23 00-0256    LF Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	2.45	1.04
01 22 23 00-0257    EA Removal And Resetting Of Steel Roadway Plate .....	30.65	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0258	<b>Street Sweepers</b> (01 22 23 00-0171)	Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0259	DAY 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator .....		1,070.48	
	<i>For Equipment Without Operator, Deduct</i>		-854.61	
01 22 23 00-0260	WK 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator .....		5,128.45	
	<i>For Equipment Without Operator, Deduct</i>		-4,273.04	
01 22 23 00-0261	MO 8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator .....		21,564.16	
	<i>For Equipment Without Operator, Deduct</i>		-18,516.51	
01 22 23 00-0262	DAY Self-Propelled Street Sweeper With Hopper And Full-Time Operator .....		1,898.67	
	Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.			
	<i>For Equipment Without Operator, Deduct</i>		-854.61	
01 22 23 00-0263	WK Self-Propelled Street Sweeper With Hopper And Full-Time Operator .....		8,455.05	
	Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.			
	<i>For Equipment Without Operator, Deduct</i>		-4,273.04	
01 22 23 00-0264	MO Self-Propelled Street Sweeper With Hopper And Full-Time Operator .....		33,441.11	
	Note: Truck with main and gutter brooms, elevator, debris hopper and water tank.			
	<i>For Equipment Without Operator, Deduct</i>		-18,516.51	
01 22 23 00-0265	<b>Earthmoving Equipment</b> (01 22 23)			
01 22 23 00-0266	<b>Skid-Steer Loaders</b> (01 22 23 00-0265)	Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.		
01 22 23 00-0267	DAY 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator .....		1,183.81	
	<i>For Equipment Without Operator, Deduct</i>		-854.61	
01 22 23 00-0268	WK 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator .....		5,136.67	
	<i>For Equipment Without Operator, Deduct</i>		-4,273.04	
01 22 23 00-0269	MO 700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator .....		20,596.38	
	<i>For Equipment Without Operator, Deduct</i>		-18,516.51	
01 22 23 00-0270	DAY 1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator .....		1,270.58	
	<i>For Equipment Without Operator, Deduct</i>		-854.61	
01 22 23 00-0271	WK 1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator .....		5,293.69	
	<i>For Equipment Without Operator, Deduct</i>		-4,273.04	
01 22 23 00-0272	MO 1,500 To 1,700 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator .....		20,940.73	
	<i>For Equipment Without Operator, Deduct</i>		-18,516.51	
01 22 23 00-0273	DAY 2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator .....		12,935.38	
	<i>For Equipment Without Operator, Deduct</i>		-854.61	
01 22 23 00-0274	WK 2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator .....		15,519.59	
	<i>For Equipment Without Operator, Deduct</i>		-4,273.04	
01 22 23 00-0275	MO 2,000 To 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator .....		21,539.90	
	<i>For Equipment Without Operator, Deduct</i>		-18,516.51	
01 22 23 00-0276	DAY 2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....		1,391.80	
	<i>For Equipment Without Operator, Deduct</i>		-854.61	
01 22 23 00-0277	WK 2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....		5,836.39	
	<i>For Equipment Without Operator, Deduct</i>		-4,273.04	
01 22 23 00-0278	MO 2,500 To 2,700 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....		22,586.73	
	<i>For Equipment Without Operator, Deduct</i>		-18,516.51	
01 22 23 00-0279	DAY 3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....		1,557.08	
	<i>For Equipment Without Operator, Deduct</i>		-854.61	
01 22 23 00-0280	WK 3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....		6,463.11	
	<i>For Equipment Without Operator, Deduct</i>		-4,273.04	
01 22 23 00-0281	MO 3,200 To 3,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator .....		24,129.41	
	<i>For Equipment Without Operator, Deduct</i>		-18,516.51	
01 22 23 00-0282	DAY Hydraulic Hammer Attachment For Skid-Steer Loaders .....		275.48	
01 22 23 00-0283	WK Hydraulic Hammer Attachment For Skid-Steer Loaders .....		915.97	
01 22 23 00-0284	MO Hydraulic Hammer Attachment For Skid-Steer Loaders .....		2,438.00	
01 22 23 00-0285	DAY Forklift Attachment For Skid-Steer Loaders .....		59.23	
01 22 23 00-0286	WK Forklift Attachment For Skid-Steer Loaders .....		158.40	
01 22 23 00-0287	MO Forklift Attachment For Skid-Steer Loaders .....		447.66	
01 22 23 00-0288	DAY Backhoe Attachment For Skid-Steer Loaders .....		130.85	
01 22 23 00-0289	WK Backhoe Attachment For Skid-Steer Loaders .....		314.05	
01 22 23 00-0290	MO Backhoe Attachment For Skid-Steer Loaders .....		780.99	
01 22 23 00-0291	DAY Broom Attachment For Skid-Steer Loaders .....		129.48	
01 22 23 00-0292	WK Broom Attachment For Skid-Steer Loaders .....		351.24	
01 22 23 00-0293	MO Broom Attachment For Skid-Steer Loaders .....		929.74	
01 22 23 00-0294	DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders .....		112.95	
01 22 23 00-0295	WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders .....		311.29	
01 22 23 00-0296	MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders .....		849.86	
01 22 23 00-0297	DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....		31.13	
01 22 23 00-0298	WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....		81.45	
01 22 23 00-0299	MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....		239.54	
01 22 23 00-0300	DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....		41.91	
01 22 23 00-0301	WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....		104.20	
01 22 23 00-0302	MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....		311.42	
01 22 23 00-0303	DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....		61.07	
01 22 23 00-0304	WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....		185.66	
01 22 23 00-0305	MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger) .....		550.96	
01 22 23 00-0306	DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) .....		12.40	
01 22 23 00-0307	WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) .....		28.93	
01 22 23 00-0308	MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger) .....		77.13	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price and Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 22 23 00-0309</b>		
<b>Bulldozers</b> <small>(01 22 23 00-0265)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0310 DAY 70 HP, D3 Bulldozer With Full-Time Operator .....	1,369.60	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0311 WK 70 HP, D3 Bulldozer With Full-Time Operator .....	6,349.07	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0312 MO 70 HP, D3 Bulldozer With Full-Time Operator .....	24,967.47	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0313 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator .....	1,592.34	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0314 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator .....	7,248.92	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0315 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator .....	27,729.42	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0316 DAY 140 HP, D6 Bulldozer With Full-Time Operator .....	2,224.92	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0317 WK 140 HP, D6 Bulldozer With Full-Time Operator .....	9,779.22	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0318 MO 140 HP, D6 Bulldozer With Full-Time Operator .....	35,302.49	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0319 DAY 200 HP, D7 Bulldozer With Full-Time Operator .....	2,786.21	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0320 WK 200 HP, D7 Bulldozer With Full-Time Operator .....	12,033.33	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0321 MO 200 HP, D7 Bulldozer With Full-Time Operator .....	42,073.71	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0322 DAY 335 HP, D8 Bulldozer With Full-Time Operator .....	3,454.43	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0323 WK 335 HP, D8 Bulldozer With Full-Time Operator .....	14,706.18	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0324 MO 335 HP, D8 Bulldozer With Full-Time Operator .....	50,092.26	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0325 DAY 460 HP, D9 Bulldozer With Full-Time Operator .....	3,828.63	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0326 WK 460 HP, D9 Bulldozer With Full-Time Operator .....	16,194.06	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0327 MO 460 HP, D9 Bulldozer With Full-Time Operator .....	54,547.01	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
<b>01 22 23 00-0328</b>		
<b>Motor Scraper</b> <small>(01 22 23 00-0265)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0329 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator .....	3,231.06	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0330 WK 11 CY Motor Scraper-Hauler With Full-Time Operator .....	13,821.64	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0331 MO 11 CY Motor Scraper-Hauler With Full-Time Operator .....	47,415.58	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0332 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator .....	4,174.12	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0333 WK 18 CY Motor Scraper-Hauler With Full-Time Operator .....	17,593.86	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0334 MO 18 CY Motor Scraper-Hauler With Full-Time Operator .....	58,764.22	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0335 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator .....	5,085.21	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0336 WK 24 CY Motor Scraper-Hauler With Full-Time Operator .....	21,222.23	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0337 MO 24 CY Motor Scraper-Hauler With Full-Time Operator .....	69,633.34	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
<b>01 22 23 00-0338</b>		
<b>Hydraulic Excavators</b> <small>(01 22 23 00-0265)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0339 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator .....	1,262.41	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0340 WK 3/8 CY Hydraulic Excavator With Full-Time Operator .....	5,778.04	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0341 MO 3/8 CY Hydraulic Excavator With Full-Time Operator .....	23,769.66	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0342 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator .....	1,365.16	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0343 WK 1/2 CY Hydraulic Excavator With Full-Time Operator .....	6,230.93	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0344 MO 1/2 CY Hydraulic Excavator With Full-Time Operator .....	25,581.21	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	
01 22 23 00-0345 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator .....	1,397.60	
<i>For Equipment Without Operator, Deduct</i>	-897.40	
01 22 23 00-0346 WK 5/8 CY Hydraulic Excavator With Full-Time Operator .....	6,399.92	
<i>For Equipment Without Operator, Deduct</i>	-4,486.98	
01 22 23 00-0347 MO 5/8 CY Hydraulic Excavator With Full-Time Operator .....	25,878.62	
<i>For Equipment Without Operator, Deduct</i>	-19,443.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0348 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator.....	1,431.40	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0349 WK 3/4 CY Hydraulic Excavator With Full-Time Operator.....	6,555.39	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0350 MO 3/4 CY Hydraulic Excavator With Full-Time Operator.....	26,176.04	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0351 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	1,458.44	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0352 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	6,717.62	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0353 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator.....	26,473.46	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0354 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator .....	1,823.45	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0355 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator .....	8,170.91	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0356 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator .....	30,495.36	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0357 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator .....	1,877.53	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0358 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator .....	8,407.49	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0359 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator .....	31,205.11	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0360 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator .....	1,978.92	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0361 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator .....	8,813.06	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0362 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator .....	32,421.82	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0363 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator .....	2,093.83	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0364 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator .....	9,265.95	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0365 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator .....	33,773.72	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0366 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator .....	2,127.63	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0367 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator .....	9,401.14	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0368 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator .....	34,179.29	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0369 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator .....	2,452.08	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0370 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator .....	10,705.72	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0371 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator .....	38,099.80	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0372 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator .....	2,918.49	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0373 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator .....	12,557.82	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0374 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator .....	43,642.59	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0375 DAY 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	3,493.05	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0376 WK 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	14,856.05	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0377 MO 6 To 11 CY Hydraulic Excavator With Full-Time Operator.....	50,532.28	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0378 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators .....	94.63	
01 22 23 00-0379 WK Thumbs Or Grapple Attachment For Hydraulic Excavators .....	365.01	
01 22 23 00-0380 MO Thumbs Or Grapple Attachment For Hydraulic Excavators .....	1,081.52	
01 22 23 00-0381 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	419.09	
01 22 23 00-0382 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,108.56	
01 22 23 00-0383 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	3,102.61	
01 22 23 00-0384 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators .....	648.91	
01 22 23 00-0385 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators .....	1,656.08	
01 22 23 00-0386 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators .....	4,305.80	
01 22 23 00-0387 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	905.77	
01 22 23 00-0388 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators .....	2,440.18	
01 22 23 00-0389 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators .....	6,840.61	
01 22 23 00-0390 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators .....	189.27	
01 22 23 00-0391 WK 24" Compaction Wheel Attachment For Hydraulic Excavators .....	757.06	
01 22 23 00-0392 MO 24" Compaction Wheel Attachment For Hydraulic Excavators .....	2,271.19	
01 22 23 00-0393 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators .....	270.38	
01 22 23 00-0394 WK 36" Compaction Wheel Attachment For Hydraulic Excavators .....	1,081.52	
01 22 23 00-0395 MO 36" Compaction Wheel Attachment For Hydraulic Excavators .....	3,244.56	
01 22 23 00-0396 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators .....	297.42	
01 22 23 00-0397 WK 48" Compaction Wheel Attachment For Hydraulic Excavators .....	1,176.15	
01 22 23 00-0398 MO 48" Compaction Wheel Attachment For Hydraulic Excavators .....	3,514.94	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price and Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 22 23 00-0399</b>	<b>Mini-Excavators</b> <small>(01 22 23 00-0265)</small>	
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0400 DAY 2,000 LB Mini-Excavator With Full-Time Operator.....	1,181.30	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0401 WK 2,000 LB Mini-Excavator With Full-Time Operator.....	5,291.36	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0402 MO 2,000 LB Mini-Excavator With Full-Time Operator.....	21,214.57	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0403 DAY 3,500 LB Mini-Excavator With Full-Time Operator.....	1,188.06	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0404 WK 3,500 LB Mini-Excavator With Full-Time Operator.....	5,311.64	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0405 MO 3,500 LB Mini-Excavator With Full-Time Operator.....	21,640.42	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0406 DAY 6,000 LB Mini-Excavator With Full-Time Operator.....	1,221.86	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0407 WK 6,000 LB Mini-Excavator With Full-Time Operator.....	5,406.27	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0408 MO 6,000 LB Mini-Excavator With Full-Time Operator.....	21,701.25	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0409 DAY 7,500 LB Mini-Excavator With Full-Time Operator.....	1,235.38	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0410 WK 7,500 LB Mini-Excavator With Full-Time Operator.....	5,453.59	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0411 MO 7,500 LB Mini-Excavator With Full-Time Operator.....	21,728.29	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0412 DAY 9,500 LB Mini-Excavator With Full-Time Operator.....	1,316.49	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0413 WK 9,500 LB Mini-Excavator With Full-Time Operator.....	5,521.18	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0414 MO 9,500 LB Mini-Excavator With Full-Time Operator.....	22,512.39	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0415 DAY 11,000 LB Mini-Excavator With Full-Time Operator.....	1,323.25	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0416 WK 11,000 LB Mini-Excavator With Full-Time Operator.....	5,859.16	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0417 MO 11,000 LB Mini-Excavator With Full-Time Operator.....	22,546.19	
For Equipment Without Operator, Deduct	-19,443.58	
<b>01 22 23 00-0418</b>	<b>Road Graders</b> <small>(01 22 23 00-0265)</small>	
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0419 DAY 60 HP Road Grader With Full-Time Operator.....	2,218.96	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0420 WK 60 HP Road Grader With Full-Time Operator.....	8,061.96	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0421 MO 60 HP Road Grader With Full-Time Operator.....	30,134.64	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0422 DAY 80 HP Road Grader With Full-Time Operator.....	2,608.65	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0423 WK 80 HP Road Grader With Full-Time Operator.....	9,146.32	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0424 MO 80 HP Road Grader With Full-Time Operator.....	33,421.59	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0425 DAY 130 HP Road Grader With Full-Time Operator.....	2,344.75	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0426 WK 130 HP Road Grader With Full-Time Operator.....	10,276.42	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0427 MO 130 HP Road Grader With Full-Time Operator.....	40,133.21	
For Equipment Without Operator, Deduct	-19,443.58	
<b>01 22 23 00-0428</b>	<b>Loader-Backhoes With Standard Bucket</b> <small>(01 22 23 00-0265)</small>	
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0429 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	1,352.23	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0430 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	5,567.21	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0431 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator.....	21,985.77	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0432 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	1,400.96	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0433 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	5,737.77	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0434 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator.....	23,025.38	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0435 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	1,476.09	
For Equipment Without Operator, Deduct	-897.40	
01 22 23 00-0436 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	5,924.57	
For Equipment Without Operator, Deduct	-4,486.98	
01 22 23 00-0437 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator.....	23,561.43	
For Equipment Without Operator, Deduct	-19,443.58	
01 22 23 00-0438 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator.....	1,811.12	
For Equipment Without Operator, Deduct	-897.40	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0439 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,923.58 -4,486.98	
01 22 23 00-0440 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	26,420.38 -19,443.58	
<b>01 22 23 00-0441 Heavy Duty Construction Loaders</b> <small>(01 22 23 00-0265)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0442 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,404.95 -897.40	
01 22 23 00-0443 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,493.76 -4,486.98	
01 22 23 00-0444 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	25,456.12 -19,443.58	
01 22 23 00-0445 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,826.61 -897.40	
01 22 23 00-0446 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	6,954.47 -4,486.98	
01 22 23 00-0447 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	25,690.38 -19,443.58	
01 22 23 00-0448 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,920.31 -897.40	
01 22 23 00-0449 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,204.34 -4,486.98	
01 22 23 00-0450 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	26,315.06 -19,443.58	
01 22 23 00-0451 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,177.99 -897.40	
01 22 23 00-0452 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,883.68 -4,486.98	
01 22 23 00-0453 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	28,032.93 -19,443.58	
01 22 23 00-0454 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,841.72 -897.40	
01 22 23 00-0455 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	12,248.63 -4,486.98	
01 22 23 00-0456 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	42,712.91 -19,443.58	
01 22 23 00-0457 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	7,214.40 -897.40	
01 22 23 00-0458 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	24,999.69 -4,486.98	
01 22 23 00-0459 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	75,346.27 -19,443.58	
<b>01 22 23 00-0460 Telescopic Hydraulic Excavators (Gradall)</b> <small>(01 22 23 00-0265)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0461 DAY Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Track Gradall, Add</i>	4,465.51 -897.40 428.17	
01 22 23 00-0462 WK Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Track Gradall, Add</i>	18,743.46 -4,486.98 1,710.78	
01 22 23 00-0463 MO Gradall, Telescopic Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i> <i>For Track Gradall, Add</i>	70,326.98 -19,443.58 6,106.01	
<b>01 22 23 00-0464 Shoring</b> <small>(01 22 23 00-0265)</small> Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-0465 Aluminum Hydraulic Shoring</b> <small>(01 22 23 00-0464)</small> Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0466 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	114.71	
01 22 23 00-0467 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	338.35	
01 22 23 00-0468 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	153.88	
01 22 23 00-0469 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	453.89	
01 22 23 00-0470 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	285.34	
01 22 23 00-0471 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring..... Note: Up to 88" spread width.	841.75	
01 22 23 00-0472 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores.....	26.37	
01 22 23 00-0473 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores.....	42.19	
01 22 23 00-0474 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores.....	70.31	
<b>01 22 23 00-0475 Trench Boxes/Trench Shields</b> <small>(01 22 23 00-0265)</small> Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price and Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0476	WK	4' x 6'	Trench Box With Up To 48" Spreaders.....	256.08	
01 22 23 00-0477	MO	4' x 6'	Trench Box With Up To 48" Spreaders.....	768.23	
01 22 23 00-0478	WK	6' x 6'	Trench Box With Up To 48" Spreaders.....	289.12	
01 22 23 00-0479	MO	6' x 6'	Trench Box With Up To 48" Spreaders.....	867.35	
01 22 23 00-0480	WK	8' x 6'	Trench Box With Up To 48" Spreaders.....	305.64	
01 22 23 00-0481	MO	8' x 6'	Trench Box With Up To 48" Spreaders.....	916.92	
01 22 23 00-0482	WK	4' x 8'	Trench Box With Up To 48" Spreaders.....	280.86	
01 22 23 00-0483	MO	4' x 8'	Trench Box With Up To 48" Spreaders.....	842.57	
01 22 23 00-0484	WK	6' x 8'	Trench Box With Up To 48" Spreaders.....	330.42	
01 22 23 00-0485	MO	6' x 8'	Trench Box With Up To 48" Spreaders.....	991.26	
01 22 23 00-0486	WK	8' x 8'	Trench Box With Up To 48" Spreaders.....	371.72	
01 22 23 00-0487	MO	8' x 8'	Trench Box With Up To 48" Spreaders.....	1,115.17	
01 22 23 00-0488	WK	4' x 10'	Trench Box With Up To 48" Spreaders.....	313.90	
01 22 23 00-0489	MO	4' x 10'	Trench Box With Up To 48" Spreaders.....	941.70	
01 22 23 00-0490	WK	6' x 10'	Trench Box With Up To 48" Spreaders.....	371.72	
01 22 23 00-0491	MO	6' x 10'	Trench Box With Up To 48" Spreaders.....	1,115.17	
01 22 23 00-0492	WK	8' x 10'	Trench Box With Up To 48" Spreaders.....	454.33	
01 22 23 00-0493	MO	8' x 10'	Trench Box With Up To 48" Spreaders.....	1,354.72	
01 22 23 00-0494	WK	4' x 12'	Trench Box With Up To 48" Spreaders.....	371.72	
01 22 23 00-0495	MO	4' x 12'	Trench Box With Up To 48" Spreaders.....	1,115.17	
01 22 23 00-0496	WK	6' x 12'	Trench Box With Up To 48" Spreaders.....	454.33	
01 22 23 00-0497	MO	6' x 12'	Trench Box With Up To 48" Spreaders.....	1,362.98	
01 22 23 00-0498	WK	8' x 12'	Trench Box With Up To 48" Spreaders.....	578.24	
01 22 23 00-0499	MO	8' x 12'	Trench Box With Up To 48" Spreaders.....	1,734.70	
01 22 23 00-0500	WK	4' x 14'	Trench Box With Up To 48" Spreaders.....	413.02	
01 22 23 00-0501	MO	4' x 14'	Trench Box With Up To 48" Spreaders.....	1,239.08	
01 22 23 00-0502	WK	6' x 14'	Trench Box With Up To 48" Spreaders.....	536.93	
01 22 23 00-0503	MO	6' x 14'	Trench Box With Up To 48" Spreaders.....	1,610.80	
01 22 23 00-0504	WK	8' x 14'	Trench Box With Up To 48" Spreaders.....	660.84	
01 22 23 00-0505	MO	8' x 14'	Trench Box With Up To 48" Spreaders.....	1,982.52	
01 22 23 00-0506	WK	4' x 16'	Trench Box With Up To 48" Spreaders.....	454.33	
01 22 23 00-0507	MO	4' x 16'	Trench Box With Up To 48" Spreaders.....	1,362.98	
01 22 23 00-0508	WK	6' x 16'	Trench Box With Up To 48" Spreaders.....	619.54	
01 22 23 00-0509	MO	6' x 16'	Trench Box With Up To 48" Spreaders.....	1,858.61	
01 22 23 00-0510	WK	8' x 16'	Trench Box With Up To 48" Spreaders.....	743.44	
01 22 23 00-0511	MO	8' x 16'	Trench Box With Up To 48" Spreaders.....	2,230.34	
01 22 23 00-0512	WK	4' x 20'	Trench Box With Up To 48" Spreaders.....	536.93	
01 22 23 00-0513	MO	4' x 20'	Trench Box With Up To 48" Spreaders.....	1,610.80	
01 22 23 00-0514	WK	6' x 20'	Trench Box With Up To 48" Spreaders.....	743.44	
01 22 23 00-0515	MO	6' x 20'	Trench Box With Up To 48" Spreaders.....	2,230.34	
01 22 23 00-0516	WK	8' x 20'	Trench Box With Up To 48" Spreaders.....	867.35	
01 22 23 00-0517	MO	8' x 20'	Trench Box With Up To 48" Spreaders.....	2,602.06	
01 22 23 00-0518	WK	4' x 24'	Trench Box With Up To 48" Spreaders.....	743.44	
01 22 23 00-0519	MO	4' x 24'	Trench Box With Up To 48" Spreaders.....	2,230.34	
01 22 23 00-0520	WK	6' x 24'	Trench Box With Up To 48" Spreaders.....	908.66	
01 22 23 00-0521	MO	6' x 24'	Trench Box With Up To 48" Spreaders.....	2,725.96	
01 22 23 00-0522	WK	8' x 24'	Trench Box With Up To 48" Spreaders.....	991.26	
01 22 23 00-0523	MO	8' x 24'	Trench Box With Up To 48" Spreaders.....	2,973.78	
01 22 23 00-0524	WK	For Spreaders >48" To 84", Add.....	24.78		
01 22 23 00-0525	MO	For Spreaders >48" To 84", Add.....	74.34		
01 22 23 00-0526	WK	For Spreaders >84" To 120", Add.....	148.69		
01 22 23 00-0527	MO	For Spreaders >84" To 120", Add.....	446.07		
01 22 23 00-0528	WK	For Spreaders >120", Add.....	313.90		
01 22 23 00-0529	MO	For Spreaders >120", Add.....	941.70		
01 22 23 00-0530	WK	8' x 4' Manhole Box.....	390.31		
01 22 23 00-0531	MO	8' x 4' Manhole Box.....	1,170.93		
01 22 23 00-0532	WK	8' x 8' Manhole Box.....	557.58		
01 22 23 00-0533	MO	8' x 8' Manhole Box.....	1,672.75		

### 01 22 23 00-0534 Trenchers (01 22 23 00-0265)

Note: Includes full-time operator. Excludes delivery, set-up, and removal.

01 22 23 00-0535	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,226.23		
		<i>For Equipment Without Operator, Deduct</i>	-854.61		
01 22 23 00-0536	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	5,538.86		
		<i>For Equipment Without Operator, Deduct</i>	-4,273.04		
01 22 23 00-0537	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	22,000.41		
		<i>For Equipment Without Operator, Deduct</i>	-18,516.51		
01 22 23 00-0538	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	1,853.33		
		<i>For Equipment Without Operator, Deduct</i>	-854.61		
01 22 23 00-0539	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	7,652.42		
		<i>For Equipment Without Operator, Deduct</i>	-4,273.04		
01 22 23 00-0540	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator.....	27,806.91		
		<i>For Equipment Without Operator, Deduct</i>	-18,516.51		

### 01 22 23 00-0541 Portable Sediment Tank (01 22 23 00-0265)

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0542	WK	Portable Sediment Tank.....	199.52		
01 22 23 00-0543	MO	Portable Sediment Tank.....	585.24		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0544

**Heavy Equipment (Ground Protection) Mats** (01 22 23 00-0265)

Note: Rental price per mat. Excludes placement, moving, mobilization and demobilization. See CSI section 01 22 23 00-0265 for equipment for offloading/reloading from delivery vehicle, placing, and moving mats, 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

01 22 23 00-0545	DAY	14'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	30.37	
01 22 23 00-0546	WK	14'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	72.32	
01 22 23 00-0547	MO	14'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	151.87	
01 22 23 00-0548	DAY	16'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	31.89	
01 22 23 00-0549	WK	16'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	75.94	
01 22 23 00-0550	MO	16'	Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat	159.46	
01 22 23 00-0551	Day	16'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	25.82	
01 22 23 00-0552	WK	16'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	60.75	
01 22 23 00-0553	MO	16'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	129.09	
01 22 23 00-0554	Day	18'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	28.86	
01 22 23 00-0555	WK	18'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	68.34	
01 22 23 00-0556	MO	18'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	144.28	
01 22 23 00-0557	Day	20'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	31.89	
01 22 23 00-0558	WK	20'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	75.94	
01 22 23 00-0559	MO	20'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	159.46	
01 22 23 00-0560	Day	24'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	34.93	
01 22 23 00-0561	WK	24'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	83.17	
01 22 23 00-0562	MO	24'	Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat	174.65	
01 22 23 00-0563	Day	12'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	27.34	
01 22 23 00-0564	WK	12'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	75.94	
01 22 23 00-0565	MO	12'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	136.68	
01 22 23 00-0566	Day	16'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	31.89	
01 22 23 00-0567	WK	16'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	75.94	
01 22 23 00-0568	MO	16'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	159.46	
01 22 23 00-0569	Day	20'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	37.97	
01 22 23 00-0570	WK	20'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	83.53	
01 22 23 00-0571	MO	20'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	169.84	
01 22 23 00-0572	Day	24'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	41.00	
01 22 23 00-0573	WK	24'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	97.63	
01 22 23 00-0574	MO	24'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	205.02	
01 22 23 00-0575	Day	28'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	44.04	
01 22 23 00-0576	WK	28'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	104.86	
01 22 23 00-0577	MO	28'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	220.21	
01 22 23 00-0578	Day	30'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	45.56	
01 22 23 00-0579	WK	30'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	108.48	
01 22 23 00-0580	MO	30'	Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat	227.80	
01 22 23 00-0581	Day	14'	Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	14.61	
01 22 23 00-0582	WK	14'	Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	36.52	
01 22 23 00-0583	MO	14'	Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™)	109.57	
01 22 23 00-0584	Day	14'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	17.46	
01 22 23 00-0585	WK	14'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	43.66	
01 22 23 00-0586	MO	14'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	130.99	
01 22 23 00-0587	Day	16'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	19.95	
01 22 23 00-0588	WK	16'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	49.86	
01 22 23 00-0589	MO	16'	Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	149.59	
01 22 23 00-0590	Day	14'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	21.26	
01 22 23 00-0591	WK	14'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	53.15	
01 22 23 00-0592	MO	14'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	159.46	
01 22 23 00-0593	Day	16'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	24.30	
01 22 23 00-0594	WK	16'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	60.75	
01 22 23 00-0595	MO	16'	Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	182.24	
01 22 23 00-0596	Day	16'	Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	27.92	
01 22 23 00-0597	WK	16'	Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	69.81	
01 22 23 00-0598	MO	16'	Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	209.43	
01 22 23 00-0599	Day	24'	Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	21.48	
01 22 23 00-0600	WK	24'	Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	53.71	
01 22 23 00-0601	MO	24'	Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)	161.13	
01 22 23 00-0602	Day	30'	Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	29.09	
01 22 23 00-0603	WK	30'	Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	72.72	
01 22 23 00-0604	MO	30'	Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	218.16	
01 22 23 00-0605	Day	24'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	25.15	
01 22 23 00-0606	WK	24'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	62.87	
01 22 23 00-0607	MO	24'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	188.62	
01 22 23 00-0608	Day	40'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	41.94	
01 22 23 00-0609	WK	40'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	104.86	
01 22 23 00-0610	MO	40'	Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)	314.58	
01 22 23 00-0611	Day	40'	Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	44.71	
01 22 23 00-0612	WK	40'	Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	111.78	
01 22 23 00-0613	MO	40'	Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)	335.33	

01 22 23 00-0614

**Electrical Equipment** (01 22 23)

01 22 23 00-0615

**Tripod Mounted Floodlights** (01 22 23 00-0614)

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0616	DAY	500	Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	72.01	
01 22 23 00-0617	WK	500	Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod	170.36	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price and Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0618	MO		500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	360.04	
01 22 23 00-0619	DAY		1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	72.01	
01 22 23 00-0620	WK		1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	210.76	
01 22 23 00-0621	MO		1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	623.49	
01 22 23 00-0622	DAY		2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	80.79	
01 22 23 00-0623	WK		2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	219.54	
01 22 23 00-0624	MO		2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod.....	535.67	
<b>01 22 23 00-0625</b>			<b>Trailer Mounted Floodlights</b> <small>(01 22 23 00-0614)</small>		
			Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0626	DAY		4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	201.97	
01 22 23 00-0627	WK		4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	447.86	
01 22 23 00-0628	MO		4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower.....	965.96	
<b>01 22 23 00-0629</b>			<b>Generator Sets</b> <small>(01 22 23 00-0614)</small>		
<b>01 22 23 00-0630</b>			<b>Portable, Gas Powered Generator Sets</b> <small>(01 22 23 00-0629)</small>		
			Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0631	DAY		3.6 KW, 8 HP Gas Powered Generator Set.....	51.09	
			Note: Fuel consumption: 100% load – 0.54 gallons per hour		
			For LP Or NG Gas, Add	6.39	
			For >160 To 320 Hours Usage Per Month, Add	25.55	
01 22 23 00-0632	WK		3.6 KW, 8 HP Gas Powered Generator Set.....	184.17	
			Note: Fuel consumption: 100% load – 0.54 gallons per hour		
			For LP Or NG Gas, Add	23.02	
01 22 23 00-0633	MO		3.6 KW, 8 HP Gas Powered Generator Set.....	510.93	
			Note: Fuel consumption: 100% load – 0.54 gallons per hour		
			For LP Or NG Gas, Add	63.87	
01 22 23 00-0634	DAY		5 KW, 11 HP Gas Powered Generator Set.....	72.48	
			Note: Fuel consumption: 100% load – 0.75 gallons per hour		
			For LP Or NG Gas, Add	9.06	
01 22 23 00-0635	WK		5 KW, 11 HP Gas Powered Generator Set.....	231.70	
			Note: Fuel consumption: 100% load – 0.75 gallons per hour		
			For LP Or NG Gas, Add	28.96	
01 22 23 00-0636	MO		5 KW, 11 HP Gas Powered Generator Set.....	528.75	
			Note: Fuel consumption: 100% load – 0.75 gallons per hour		
			For LP Or NG Gas, Add	66.09	
01 22 23 00-0637	DAY		6.5 KW, 13 HP Gas Powered Generator Set.....	92.68	
			Note: Fuel consumption: 100% load – 0.975 gallons per hour		
			For LP Or NG Gas, Add	11.59	
01 22 23 00-0638	WK		6.5 KW, 13 HP Gas Powered Generator Set.....	249.52	
			Note: Fuel consumption: 100% load – 0.975 gallons per hour		
			For LP Or NG Gas, Add	31.19	
01 22 23 00-0639	MO		6.5 KW, 13 HP Gas Powered Generator Set.....	689.16	
			Note: Fuel consumption: 100% load – 0.975 gallons per hour		
			For LP Or NG Gas, Add	86.15	
01 22 23 00-0640	DAY		10 KW, 18 HP Gas Powered Generator Set.....	103.37	
			Note: Fuel consumption: 100% load – 1.5 gallons per hour		
			For LP Or NG Gas, Add	12.92	
01 22 23 00-0641	WK		10 KW, 18 HP Gas Powered Generator Set.....	279.23	
			Note: Fuel consumption: 100% load – 1.5 gallons per hour		
			For LP Or NG Gas, Add	34.90	
01 22 23 00-0642	MO		10 KW, 18 HP Gas Powered Generator Set.....	802.04	
			Note: Fuel consumption: 100% load – 1.5 gallons per hour		
			For LP Or NG Gas, Add	100.26	
<b>01 22 23 00-0643</b>			<b>Towable, Diesel Powered Generator Sets</b> <small>(01 22 23 00-0629)</small>		
			Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0644	DAY		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	212.69	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	106.35	
			For >16 To 24 Hours Usage Per Day, Add	212.69	
01 22 23 00-0645	WK		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	556.08	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	278.04	
			For >80 Hours Usage Per Week, Add	556.08	
01 22 23 00-0646	MO		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,514.96	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	757.48	
			For >320 Hours Usage Per Month, Add	1,514.96	
01 22 23 00-0647	DAY		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	361.30	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	180.65	
			For >16 To 24 Hours Usage Per Day, Add	361.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0648 WK 30 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 1,072.26 Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 536.13 <i>For &gt;80 Hours Usage Per Week, Add</i> 1,072.26	1,072.26	
01 22 23 00-0649 MO 30 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 2,214.45 Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 1,107.23 <i>For &gt;320 Hours Usage Per Month, Add</i> 2,214.45	2,214.45	
01 22 23 00-0650 DAY 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 396.27 Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 198.14 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 396.27	396.27	
01 22 23 00-0651 WK 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 1,107.22 Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 553.61 <i>For &gt;80 Hours Usage Per Week, Add</i> 1,107.22	1,107.22	
01 22 23 00-0652 MO 40.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 2,447.55 Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 1,223.78 <i>For &gt;320 Hours Usage Per Month, Add</i> 2,447.55	2,447.55	
01 22 23 00-0653 DAY 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 425.41 Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 212.71 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 425.41	425.41	
01 22 23 00-0654 WK 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 1,165.50 Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 582.75 <i>For &gt;80 Hours Usage Per Week, Add</i> 1,165.50	1,165.50	
01 22 23 00-0655 MO 55.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 2,797.20 Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 1,398.60 <i>For &gt;320 Hours Usage Per Month, Add</i> 2,797.20	2,797.20	
01 22 23 00-0656 DAY 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 466.20 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 233.10 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 466.20	466.20	
01 22 23 00-0657 WK 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 1,322.84 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 661.42 <i>For &gt;80 Hours Usage Per Week, Add</i> 1,322.84	1,322.84	
01 22 23 00-0658 MO 70.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 3,146.85 Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 1,573.43 <i>For &gt;320 Hours Usage Per Month, Add</i> 3,146.85	3,146.85	
01 22 23 00-0659 DAY 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 524.48 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 262.24 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 524.48	524.48	
01 22 23 00-0660 WK 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 1,398.60 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 699.30 <i>For &gt;80 Hours Usage Per Week, Add</i> 1,398.60	1,398.60	
01 22 23 00-0661 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 3,496.50 Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 1,748.25 <i>For &gt;320 Hours Usage Per Month, Add</i> 3,496.50	3,496.50	
01 22 23 00-0662 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 541.96 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 270.98 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 541.96	541.96	
01 22 23 00-0663 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 1,456.88 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 728.44 <i>For &gt;80 Hours Usage Per Week, Add</i> 1,456.88	1,456.88	
01 22 23 00-0664 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set ..... 3,962.70 Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 1,981.35 <i>For &gt;320 Hours Usage Per Month, Add</i> 3,962.70	3,962.70	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price and Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0665	DAY		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	611.89	
			Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	305.95	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	611.89	
01 22 23 00-0666	WK		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,689.98	
			Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	844.99	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	1,689.98	
01 22 23 00-0667	MO		120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,545.45	
			Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	2,272.73	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	4,545.45	
01 22 23 00-0668	DAY		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	641.02	
			Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	320.51	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	641.02	
01 22 23 00-0669	WK		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,777.39	
			Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	888.70	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	1,777.39	
01 22 23 00-0670	MO		140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,011.65	
			Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	2,505.83	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	5,011.65	
01 22 23 00-0671	DAY		150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	670.16	
			Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	335.08	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	670.16	
01 22 23 00-0672	WK		150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,923.08	
			Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	961.54	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	1,923.08	
01 22 23 00-0673	MO		150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,244.75	
			Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	2,622.38	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	5,244.75	
01 22 23 00-0674	DAY		160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	699.30	
			Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	349.65	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	699.30	
01 22 23 00-0675	WK		160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,039.62	
			Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	1,019.81	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	2,039.62	
01 22 23 00-0676	MO		160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,477.85	
			Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	2,738.93	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	5,477.85	
01 22 23 00-0677	DAY		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	699.30	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	349.65	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	699.30	
01 22 23 00-0678	WK		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,039.62	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	1,019.81	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	2,039.62	
01 22 23 00-0679	MO		175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,477.85	
			Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	2,738.93	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	5,477.85	
01 22 23 00-0680	DAY		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	961.54	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	480.77	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	961.54	
01 22 23 00-0681	WK		200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,389.28	
			Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	1,194.64	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	2,389.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0682 MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....6,993.00 Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 3,496.50 <i>For &gt;320 Hours Usage Per Month, Add</i> 6,993.00	6,993.00	
01 22 23 00-0683 DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,019.81 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 509.91 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 1,019.81	1,019.81	
01 22 23 00-0684 WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,447.55 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 1,223.78 <i>For &gt;80 Hours Usage Per Week, Add</i> 2,447.55	2,447.55	
01 22 23 00-0685 MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,226.10 Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 3,613.05 <i>For &gt;320 Hours Usage Per Month, Add</i> 7,226.10	7,226.10	
01 22 23 00-0686 DAY 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,078.09 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 539.05 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 1,078.09	1,078.09	
01 22 23 00-0687 WK 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,505.82 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 1,252.91 <i>For &gt;80 Hours Usage Per Week, Add</i> 2,505.82	2,505.82	
01 22 23 00-0688 MO 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,459.20 Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 3,729.60 <i>For &gt;320 Hours Usage Per Month, Add</i> 7,459.20	7,459.20	
01 22 23 00-0689 DAY 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,113.05 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 556.53 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 1,113.05	1,113.05	
01 22 23 00-0690 WK 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,680.65 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 1,340.33 <i>For &gt;80 Hours Usage Per Week, Add</i> 2,680.65	2,680.65	
01 22 23 00-0691 MO 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....7,925.40 Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 3,962.70 <i>For &gt;320 Hours Usage Per Month, Add</i> 7,925.40	7,925.40	
01 22 23 00-0692 DAY 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....1,165.50 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 582.75 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 1,165.50	1,165.50	
01 22 23 00-0693 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....3,030.30 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 1,515.15 <i>For &gt;80 Hours Usage Per Week, Add</i> 3,030.30	3,030.30	
01 22 23 00-0694 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....8,741.25 Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 4,370.63 <i>For &gt;320 Hours Usage Per Month, Add</i> 8,741.25	8,741.25	
01 22 23 00-0695 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....2,108.92 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 1,054.46 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 2,108.92	2,108.92	
01 22 23 00-0696 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....5,452.56 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For &gt;40 To 80 Hours Usage Per Week, Add</i> 2,726.28 <i>For &gt;80 Hours Usage Per Week, Add</i> 5,452.56	5,452.56	
01 22 23 00-0697 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set .....14,420.00 Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour. <i>For &gt;160 To 320 Hours Usage Per Month, Add</i> 7,210.00 <i>For &gt;320 Hours Usage Per Month, Add</i> 14,420.00	14,420.00	
01 22 23 00-0698 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set .....2,703.75 Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour. <i>For &gt;8 To 16 Hours Usage Per Day, Add</i> 1,351.88 <i>For &gt;16 To 24 Hours Usage Per Day, Add</i> 2,703.75	2,703.75	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price and Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0699	WK		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	7,029.75	
			Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	3,514.88	
			For >80 Hours Usage Per Week, Add	7,029.75	
01 22 23 00-0700	MO		500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	16,222.50	
			Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	8,111.25	
			For >320 Hours Usage Per Month, Add	16,222.50	
01 22 23 00-0701	DAY		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	3,343.64	
			Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	1,671.82	
			For >16 To 24 Hours Usage Per Day, Add	3,343.64	
01 22 23 00-0702	WK		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	8,832.25	
			Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	4,416.13	
			For >80 Hours Usage Per Week, Add	8,832.25	
01 22 23 00-0703	MO		640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	21,630.00	
			Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	10,815.00	
			For >320 Hours Usage Per Month, Add	21,630.00	
01 22 23 00-0704	DAY		750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	3,614.01	
			Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
			For >8 To 16 Hours Usage Per Day, Add	1,807.01	
			For >16 To 24 Hours Usage Per Day, Add	3,614.01	
01 22 23 00-0705	WK		750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	8,327.55	
			Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
			For >40 To 80 Hours Usage Per Week, Add	4,163.78	
			For >80 Hours Usage Per Week, Add	8,327.55	
01 22 23 00-0706	MO		750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	24,982.65	
			Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
			For >160 To 320 Hours Usage Per Month, Add	12,491.33	
			For >320 Hours Usage Per Month, Add	24,982.65	
01 22 23 00-0707	EA		Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	926.18	
01 22 23 00-0708	EA		350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	1,502.72	
<b>01 22 23 00-0709</b>			<b>Cablings For Generator Sets</b> (01 22 23 00-0629)		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0710	DAY		#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	25.64	
01 22 23 00-0711	WK		#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	44.87	
01 22 23 00-0712	MO		#1 Banded Cable, 50' With Camlock Ends For Generator Set.....	134.62	
01 22 23 00-0713	DAY		50', 4/0 Cable With Camlock Ends For Generator Set.....	12.82	
01 22 23 00-0714	WK		50', 4/0 Cable With Camlock Ends For Generator Set.....	37.30	
01 22 23 00-0715	MO		50', 4/0 Cable With Camlock Ends For Generator Set.....	103.73	
<b>01 22 23 00-0716</b>			<b>Generator Accessories</b> (01 22 23 00-0629)		
			Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-0717</b>			<b>Step Down Transformer</b> (01 22 23 00-0716)		
01 22 23 00-0718	WK		75 KVA, 480-208 Volt, Step Down Transformer.....	343.82	
01 22 23 00-0719	MO		75 KVA, 480-208 Volt, Step Down Transformer.....	961.54	
01 22 23 00-0720	WK		150 KVA, 480-208 Volt, Step Down Transformer.....	551.28	
01 22 23 00-0721	MO		150 KVA, 480-208 Volt, Step Down Transformer.....	1,652.68	
01 22 23 00-0722	WK		225 KVA, 480-208 Volt, Step Down Transformer.....	734.26	
01 22 23 00-0723	MO		225 KVA, 480-208 Volt, Step Down Transformer.....	2,202.80	
01 22 23 00-0724	WK		500 KVA, 480-208 Volt, Step Down Transformer.....	874.12	
01 22 23 00-0725	MO		500 KVA, 480-208 Volt, Step Down Transformer.....	2,622.38	
01 22 23 00-0726	WK		1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	1,305.36	
01 22 23 00-0727	MO		1,000 KVA, 4,160/480 Volt, Step Down Transformer.....	3,898.60	
01 22 23 00-0728	WK		1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	2,121.21	
01 22 23 00-0729	MO		1,500 KVA, 4,160/480 Volt, Step Down Transformer.....	6,357.80	
01 22 23 00-0730	WK		2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	2,447.55	
01 22 23 00-0731	MO		2,500 KVA, 480-13,800/4,160 Volt, Step Down Transformer.....	7,342.65	
<b>01 22 23 00-0732</b>			<b>Portable Panel</b> (01 22 23 00-0716)		
01 22 23 00-0733	WK		100 Amperes, Portable Panel.....	273.89	
01 22 23 00-0734	MO		100 Amperes, Portable Panel.....	699.30	
01 22 23 00-0735	WK		200 Amperes, Portable Panel.....	327.51	
01 22 23 00-0736	MO		200 Amperes, Portable Panel.....	874.12	
01 22 23 00-0737	WK		400 Amperes, Portable Panel.....	349.65	
01 22 23 00-0738	MO		400 Amperes, Portable Panel.....	1,048.95	
<b>01 22 23 00-0739</b>			<b>Portable Fusible Disconnect</b> (01 22 23 00-0716)		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0740 WK 100 - 200 Amperes, Portable Fusible Disconnect.....	122.38	
01 22 23 00-0741 MO 100 - 200 Amperes, Portable Fusible Disconnect.....	367.13	
01 22 23 00-0742 WK 300 - 400 Amperes, Portable Fusible Disconnect.....	244.76	
01 22 23 00-0743 MO 300 - 400 Amperes, Portable Fusible Disconnect.....	734.26	
<b>01 22 23 00-0744 Portable Transfer Switch (01 22 23 00-0716)</b>		
01 22 23 00-0745 WK 100 Amperes, 480 Volt, Portable Transfer Switch .....	367.13	
01 22 23 00-0746 MO 100 Amperes, 480 Volt, Portable Transfer Switch .....	1,101.40	
01 22 23 00-0747 WK 200 Amperes, 480 Volt, Portable Transfer Switch .....	489.51	
01 22 23 00-0748 MO 200 Amperes, 480 Volt, Portable Transfer Switch .....	1,468.53	
01 22 23 00-0749 WK 400 Amperes, 480 Volt, Portable Transfer Switch .....	611.89	
01 22 23 00-0750 MO 400 Amperes, 480 Volt, Portable Transfer Switch .....	1,835.66	
<b>01 22 23 00-0751 Resistive Loadbanks For Generator Sets (01 22 23 00-0629)</b>		
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0752 DAY 100 KW A/C Resistive Loadbank.....	358.17	
01 22 23 00-0753 WK 100 KW A/C Resistive Loadbank.....	681.23	
01 22 23 00-0754 MO 100 KW A/C Resistive Loadbank.....	1,861.08	
01 22 23 00-0755 DAY 650 KW A/C Resistive Loadbank.....	765.04	
01 22 23 00-0756 WK 650 KW A/C Resistive Loadbank.....	2,045.91	
01 22 23 00-0757 MO 650 KW A/C Resistive Loadbank.....	5,216.21	
<b>01 22 23 00-0758 Sub-Distribution Panels (Spider Box) For Generator Sets (01 22 23 00-0629)</b>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0759 DAY 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	62.94	
01 22 23 00-0760 WK 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	163.17	
01 22 23 00-0761 MO 50 Amperes, 240 Volt, Single Phase, Sub-Distribution Panel (Spider Box).....	460.37	
<b>01 22 23 00-0762 Portable Distribution Panels For Generator Sets (01 22 23 00-0629)</b>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0763 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	139.86	
01 22 23 00-0764 WK 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	378.79	
01 22 23 00-0765 MO 200 Amperes, 208 Volt, 3 Phase, Portable Spider Box Feeder Panel.....	1,060.60	
01 22 23 00-0766 DAY 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	114.22	
01 22 23 00-0767 WK 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	297.20	
01 22 23 00-0768 MO 100 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	844.99	
01 22 23 00-0769 DAY 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	145.69	
01 22 23 00-0770 WK 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	367.13	
01 22 23 00-0771 MO 200 Amperes, 208 Volt, 3 Phase, Portable Quad Box Panel.....	996.50	
<b>01 22 23 00-0772 Fuel Reimbursement For Generators (01 22 23 00-0629)</b>		
01 22 23 00-0773 EA Fuel Reimbursement For Generators.....	1.00	
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
<b>01 22 23 00-0774 Portable Floor Drying Fans (01 22 23 00-0614)</b>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0775 DAY 2,250 CFM Portable Floor Drying Fan .....	31.35	
01 22 23 00-0776 WK 2,250 CFM Portable Floor Drying Fan .....	144.97	
01 22 23 00-0777 MO 2,250 CFM Portable Floor Drying Fan .....	479.98	
<b>01 22 23 00-0778 Welding Machines (01 22 23 00-0614)</b>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
<b>01 22 23 00-0779 CC/CV Inverter Welder (01 22 23 00-0778)</b>		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0780 DAY 250 Amperes, CC Inverter Welder.....	43.29	
01 22 23 00-0781 WK 250 Amperes, CC Inverter Welder.....	94.30	
01 22 23 00-0782 MO 250 Amperes, CC Inverter Welder.....	285.99	
01 22 23 00-0783 DAY 300 Amperes, CC/CV Inverter Welder.....	49.47	
01 22 23 00-0784 WK 300 Amperes, CC/CV Inverter Welder.....	131.40	
01 22 23 00-0785 MO 300 Amperes, CC/CV Inverter Welder.....	347.83	
01 22 23 00-0786 DAY 350 Amperes, CC/CV Inverter Welder.....	51.01	
01 22 23 00-0787 WK 350 Amperes, CC/CV Inverter Welder.....	134.49	
01 22 23 00-0788 MO 350 Amperes, CC/CV Inverter Welder.....	378.75	
<b>01 22 23 00-0789 MIG Welder (01 22 23 00-0778)</b>		
Note: Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-0790 DAY 115 Volt MIG Welder .....	74.20	
01 22 23 00-0791 WK 115 Volt MIG Welder .....	193.24	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price and Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0792 MO 115 Volt MIG Welder.....525.61

**01 22 23 00-0793 Diesel Powered Towable Welding Machines (01 22 23 00-0778)**

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-0794 DAY 250 To 299 Amperes, Diesel Powered Towable Welding Machine .....139.13  
 01 22 23 00-0795 WK 250 To 299 Amperes, Diesel Powered Towable Welding Machine .....340.10  
 01 22 23 00-0796 MO 250 To 299 Amperes, Diesel Powered Towable Welding Machine .....811.60  
 01 22 23 00-0797 DAY 300 To 349 Amperes, Diesel Powered Towable Welding Machine .....185.51  
 01 22 23 00-0798 WK 300 To 349 Amperes, Diesel Powered Towable Welding Machine .....363.29  
 01 22 23 00-0799 MO 300 To 349 Amperes, Diesel Powered Towable Welding Machine .....848.70  
 01 22 23 00-0800 DAY 350 To 399 Amperes, Diesel Powered Towable Welding Machine .....193.24  
 01 22 23 00-0801 WK 350 To 399 Amperes, Diesel Powered Towable Welding Machine .....386.48  
 01 22 23 00-0802 MO 350 To 399 Amperes, Diesel Powered Towable Welding Machine .....943.00

**01 22 23 00-0803 General Equipment (01 22 23)**

**01 22 23 00-0804 Jacks And Bracing (01 22 23 00-0803)**

Note: Includes delivery to job site and pick-up when complete.

**01 22 23 00-0805 Manual Hydraulic Jacks (01 22 23 00-0804)**

01 22 23 00-0806 DAY 12 Ton Manual Hydraulic Bottle Jack .....1.67  
 01 22 23 00-0807 WK 12 Ton Manual Hydraulic Bottle Jack .....7.93  
 01 22 23 00-0808 MO 12 Ton Manual Hydraulic Bottle Jack .....28.50  
 01 22 23 00-0809 DAY 20 Ton Manual Hydraulic Bottle Jack .....2.92  
 01 22 23 00-0810 WK 20 Ton Manual Hydraulic Bottle Jack .....9.18  
 01 22 23 00-0811 MO 20 Ton Manual Hydraulic Bottle Jack .....34.76  
 01 22 23 00-0812 DAY 50 Ton Manual Hydraulic Bottle Jack .....10.43  
 01 22 23 00-0813 WK 50 Ton Manual Hydraulic Bottle Jack .....40.49  
 01 22 23 00-0814 MO 50 Ton Manual Hydraulic Bottle Jack .....145.66  
 01 22 23 00-0815 DAY 100 Ton Manual Hydraulic Bottle Jack .....14.61  
 01 22 23 00-0816 WK 100 Ton Manual Hydraulic Bottle Jack .....58.43  
 01 22 23 00-0817 MO 100 Ton Manual Hydraulic Bottle Jack .....210.46

**01 22 23 00-0818 Manual Screw Jacks (01 22 23 00-0804)**

01 22 23 00-0819 DAY 10 To 20 Ton Manual Screw Jack .....17.63  
 01 22 23 00-0820 WK 10 To 20 Ton Manual Screw Jack .....46.66  
 01 22 23 00-0821 MO 10 To 20 Ton Manual Screw Jack .....139.98

**01 22 23 00-0822 Pressure Washers (01 22 23 00-0803)**

Note: Includes delivery to job site, pick-up when complete and full time operator.

01 22 23 00-0823 DAY 2,000 PSI Pressure Washer With Full-Time Operator .....830.52  
*For Equipment Without Operator, Deduct* .....-670.06  
 01 22 23 00-0824 WK 2,000 PSI Pressure Washer With Full-Time Operator .....3,757.64  
*For Equipment Without Operator, Deduct* .....-3,350.32  
 01 22 23 00-0825 MO 2,000 PSI Pressure Washer With Full-Time Operator .....15,554.85  
*For Equipment Without Operator, Deduct* .....-14,518.04  
 01 22 23 00-0826 DAY 2,500 PSI Pressure Washer With Full-Time Operator .....830.52  
*For Equipment Without Operator, Deduct* .....-670.06  
 01 22 23 00-0827 WK 2,500 PSI Pressure Washer With Full-Time Operator .....3,757.64  
*For Equipment Without Operator, Deduct* .....-3,350.32  
 01 22 23 00-0828 MO 2,500 PSI Pressure Washer With Full-Time Operator .....15,554.85  
*For Equipment Without Operator, Deduct* .....-14,518.04  
 01 22 23 00-0829 DAY 3,000 PSI Pressure Washer With Full-Time Operator .....830.52  
*For Equipment Without Operator, Deduct* .....-670.06  
 01 22 23 00-0830 WK 3,000 PSI Pressure Washer With Full-Time Operator .....3,757.64  
*For Equipment Without Operator, Deduct* .....-3,350.32  
 01 22 23 00-0831 MO 3,000 PSI Pressure Washer With Full-Time Operator .....15,554.85  
*For Equipment Without Operator, Deduct* .....-14,518.04  
 01 22 23 00-0832 DAY 3,500 PSI Pressure Washer With Full-Time Operator .....842.86  
*For Equipment Without Operator, Deduct* .....-670.06  
 01 22 23 00-0833 WK 3,500 PSI Pressure Washer With Full-Time Operator .....3,794.67  
*For Equipment Without Operator, Deduct* .....-3,350.32  
 01 22 23 00-0834 MO 3,500 PSI Pressure Washer With Full-Time Operator .....15,653.60  
*For Equipment Without Operator, Deduct* .....-14,518.04  
 01 22 23 00-0835 DAY 4,000 PSI Pressure Washer With Full-Time Operator .....892.23  
*For Equipment Without Operator, Deduct* .....-670.06  
 01 22 23 00-0836 WK 4,000 PSI Pressure Washer With Full-Time Operator .....3,955.13  
*For Equipment Without Operator, Deduct* .....-3,350.32  
 01 22 23 00-0837 MO 4,000 PSI Pressure Washer With Full-Time Operator .....16,209.03  
*For Equipment Without Operator, Deduct* .....-14,518.04  
 01 22 23 00-0838 DAY 5,000 PSI Pressure Washer With Full-Time Operator .....916.92  
*For Equipment Without Operator, Deduct* .....-670.06  
 01 22 23 00-0839 WK 5,000 PSI Pressure Washer With Full-Time Operator .....4,016.84  
*For Equipment Without Operator, Deduct* .....-3,350.32  
 01 22 23 00-0840 MO 5,000 PSI Pressure Washer With Full-Time Operator .....16,394.18  
*For Equipment Without Operator, Deduct* .....-14,518.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>01 22 23 00-0841</b>		<b>Confined Space Entry Equipment</b> <small>(01 22 23 00-0803)</small>	
<small>Note: Includes delivery to job site, set-up, and pick-up when complete.</small>			
01 22 23 00-0842	DAY	Ventilation Equipment For Confined Space .....	43.67
<small>Note: Includes electric or gas blower and ventilation duct up to 25'.</small>			
01 22 23 00-0843	WK	Ventilation Equipment For Confined Space .....	131.01
<small>Note: Includes electric or gas blower and ventilation duct up to 25'.</small>			
01 22 23 00-0844	MO	Ventilation Equipment For Confined Space .....	390.96
<small>Note: Includes electric or gas blower and ventilation duct up to 25'.</small>			
01 22 23 00-0845	DAY	Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly .....	63.75
01 22 23 00-0846	WK	Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly .....	191.26
01 22 23 00-0847	MO	Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly .....	573.79
01 22 23 00-0848	DAY	Confined Space Air Monitor Personnel .....	854.61
<small>Note: Per person day.</small>			

<b>01 22 23 00-0849</b>		<b>Direct Fired Space Heaters</b> <small>(01 22 23 00-0803)</small>	
<small>Note: Includes delivery to job site, set-up, and pick-up when complete. Excludes operator.</small>			
01 22 23 00-0850	DAY	150,000 BTU/Hour Space Heater .....	75.08
01 22 23 00-0851	WK	150,000 BTU/Hour Space Heater .....	215.84
01 22 23 00-0852	MO	150,000 BTU/Hour Space Heater .....	609.99
01 22 23 00-0853	DAY	500,000 BTU/Hour Space Heater .....	159.54
01 22 23 00-0854	WK	500,000 BTU/Hour Space Heater .....	394.15
01 22 23 00-0855	MO	500,000 BTU/Hour Space Heater .....	996.63

<b>01 22 23 00-0856</b>		<b>Mowers</b> <small>(01 22 23 00-0803)</small>	
<small>Note: Includes delivery to job site and pick-up when complete. Excludes operator.</small>			
01 22 23 00-0857	DAY	21" Walk Behind Lawn Mower .....	93.26
01 22 23 00-0858	WK	21" Walk Behind Lawn Mower .....	268.12
01 22 23 00-0859	MO	21" Walk Behind Lawn Mower .....	547.90
01 22 23 00-0860	DAY	32" Walk Behind Lawn Mower .....	116.58
01 22 23 00-0861	WK	32" Walk Behind Lawn Mower .....	279.78
01 22 23 00-0862	MO	32" Walk Behind Lawn Mower .....	582.88
01 22 23 00-0863	DAY	36" To 48" Walk Behind Deck Mower .....	209.84
01 22 23 00-0864	WK	36" To 48" Walk Behind Deck Mower .....	582.88
01 22 23 00-0865	MO	36" To 48" Walk Behind Deck Mower .....	1,690.34
01 22 23 00-0866	DAY	61" To 72" Walk Behind Deck Mower .....	209.84
01 22 23 00-0867	WK	61" To 72" Walk Behind Deck Mower .....	582.88
01 22 23 00-0868	MO	61" To 72" Walk Behind Deck Mower .....	1,690.34

<b>01 22 23 00-0869</b>		<b>Trailer Mounted Brush Chipper</b> <small>(01 22 23 00-0803)</small>	
<small>Note: Includes delivery to job site and pick-up when complete.</small>			
01 22 23 00-0870	DAY	4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	236.59
01 22 23 00-0871	WK	4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	565.76
01 22 23 00-0872	MO	4" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	1,738.42
01 22 23 00-0873	DAY	6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	308.60
01 22 23 00-0874	WK	6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	695.37
01 22 23 00-0875	MO	6" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	1,851.57
01 22 23 00-0876	DAY	9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	576.04
01 22 23 00-0877	WK	9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	1,296.10
01 22 23 00-0878	MO	9" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	3,456.26
01 22 23 00-0879	DAY	12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	562.21
01 22 23 00-0880	WK	12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	1,264.98
01 22 23 00-0881	MO	12" Capacity, Trailer Mounted Brush Chipper For Emergency Clean-up .....	3,373.27

<b>01 22 23 00-0882</b>		<b>Material Handling Equipment</b> <small>(01 22 23)</small>	
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<b>01 22 23 00-0883</b>		<b>Truck Mounted Hydraulic Cranes</b> <small>(01 22 23 00-0882)</small>	
<small>Note: Includes full-time operator, delivery, set-up, rigging, all necessary counter weights and removal time in rental period. Excludes lattice boom extension.</small>			
01 22 23 00-0884	DAY	6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	1,357.04
<small>For Equipment Without Operator, Deduct</small>			
			-919.97
01 22 23 00-0885	WK	6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	5,923.91
<small>For Equipment Without Operator, Deduct</small>			
			-4,599.85
01 22 23 00-0886	MO	6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	23,917.73
<small>For Equipment Without Operator, Deduct</small>			
			-19,932.68
01 22 23 00-0887	DAY	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	1,472.73
<small>For Equipment Without Operator, Deduct</small>			
			-919.97
01 22 23 00-0888	WK	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	6,267.79
<small>For Equipment Without Operator, Deduct</small>			
			-4,599.85
01 22 23 00-0889	MO	8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	24,946.13
<small>For Equipment Without Operator, Deduct</small>			
			-19,932.68
01 22 23 00-0890	DAY	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	1,588.43
<small>For Equipment Without Operator, Deduct</small>			
			-919.97
01 22 23 00-0891	WK	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	6,611.66
<small>For Equipment Without Operator, Deduct</small>			
			-4,599.85
01 22 23 00-0892	MO	14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	25,974.53
<small>For Equipment Without Operator, Deduct</small>			
			-19,932.68
01 22 23 00-0893	DAY	20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	1,742.69
<small>For Equipment Without Operator, Deduct</small>			
			-919.97

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price and Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0894 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,074.44 -4,599.85	
01 22 23 00-0895 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	27,356.44 -19,932.68	
01 22 23 00-0896 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,884.09 -919.97	
01 22 23 00-0897 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,032.13 -4,599.85	
01 22 23 00-0898 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	30,226.96 -19,932.68	
01 22 23 00-0899 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,218.33 -919.97	
01 22 23 00-0900 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,227.65 -4,599.85	
01 22 23 00-0901 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,816.08 -19,932.68	
01 22 23 00-0902 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,430.43 -919.97	
01 22 23 00-0903 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,973.24 -4,599.85	
01 22 23 00-0904 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	36,057.99 -19,932.68	
01 22 23 00-0905 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,597.55 -919.97	
01 22 23 00-0906 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,577.43 -4,599.85	
01 22 23 00-0907 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	37,867.98 -19,932.68	
01 22 23 00-0908 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,764.66 -919.97	
01 22 23 00-0909 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,181.61 -4,599.85	
01 22 23 00-0910 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	39,677.96 -19,932.68	
01 22 23 00-0911 DAY 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,873.93 -919.97	
01 22 23 00-0912 WK 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,554.41 -4,599.85	
01 22 23 00-0913 MO 85 To 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	40,809.20 -19,932.68	
01 22 23 00-0914 DAY 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,021.76 -919.97	
01 22 23 00-0915 WK 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,107.17 -4,599.85	
01 22 23 00-0916 MO 100 To 110 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	42,454.64 -19,932.68	
01 22 23 00-0917 DAY 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,497.40 -919.97 -1,030.97	
01 22 23 00-0918 WK 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	13,620.85 -4,599.85	
01 22 23 00-0919 MO 120 To 125 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	46,995.67 -19,932.68	
01 22 23 00-0920 DAY 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	3,825.20 -919.97 -1,162.09	
01 22 23 00-0921 WK 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,768.15 -4,599.85	
01 22 23 00-0922 MO 140 To 150 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	50,437.60 -19,932.68	
01 22 23 00-0923 DAY 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,416.53 -919.97 -1,398.62	
01 22 23 00-0924 WK 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	16,837.81 -4,599.85	
01 22 23 00-0925 MO 175 To 185 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	56,646.56 -19,932.68	
01 22 23 00-0926 DAY 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i> <i>For Half Day Usage, Deduct</i>	4,827.89 -919.97 -1,563.17	
01 22 23 00-0927 WK 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	18,277.57 -4,599.85	
01 22 23 00-0928 MO 200 To 210 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	60,965.84 -19,932.68	
<b>01 22 23 00-0929 Cable Controlled Lattice Boom, Mechanical Cranes (01 22 23 00-0882)</b> Note: Includes full-time operator and counterweights. Excludes delivery, set-up, and removal. See CSI section 01 71 13 00-0004 for lattice crane delivery.		
01 22 23 00-0930 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,462.57 -919.97	
01 22 23 00-0931 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	10,101.79 -4,599.85	
01 22 23 00-0932 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	36,438.50 -19,932.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0933 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	3,651.66	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0934 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	12,081.46	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0935 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	42,377.51	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0936 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....	3,844.48	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0937 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....	13,489.08	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0938 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....	46,599.09	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0939 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....	4,230.13	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0940 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....	14,896.71	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0941 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Or Crawler Mechanical Crane With Full-Time Operator .....	50,815.53	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0942 DAY 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	4,413.32	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0943 WK 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	16,304.33	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0944 MO 200 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	55,042.26	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0945 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	4,596.50	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0946 WK 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	17,711.95	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0947 MO 250 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	59,268.98	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0948 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	5,200.69	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0949 WK 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	19,878.02	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0950 MO 300 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	65,758.18	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
01 22 23 00-0951 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	8,915.78	
<i>For Equipment Without Operator, Deduct</i>	-919.97	
01 22 23 00-0952 WK 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	33,118.67	
<i>For Equipment Without Operator, Deduct</i>	-4,599.85	
01 22 23 00-0953 MO 500 Ton Lift, Cable Controlled Lattice Boom, Crawler Mechanical Crane With Full-Time Operator .....	105,495.56	
<i>For Equipment Without Operator, Deduct</i>	-19,932.68	
<b>01 22 23 00-0954 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts</b> <small>(01 22 23 00-0882)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0955 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	1,508.67	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
01 22 23 00-0956 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	5,873.76	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
01 22 23 00-0957 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	21,958.91	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
01 22 23 00-0958 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	1,577.51	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
01 22 23 00-0959 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	6,028.66	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
01 22 23 00-0960 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	22,303.15	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
01 22 23 00-0961 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	1,560.30	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
01 22 23 00-0962 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	6,106.12	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
01 22 23 00-0963 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	22,819.51	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
01 22 23 00-0964 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	1,758.24	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
01 22 23 00-0965 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	6,622.48	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
01 22 23 00-0966 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	24,024.35	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<b>01 22 23 00-0967 Straight Mast, Rough Terrain Construction Forklifts</b> <small>(01 22 23 00-0882)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0968 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,279.75	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	85.03	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price and Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0969 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,433.99	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	232.19	
01 22 23 00-0970 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	21,173.61	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	531.42	
01 22 23 00-0971 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,302.12	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	89.50	
01 22 23 00-0972 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,495.09	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	244.41	
01 22 23 00-0973 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	21,313.46	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	559.39	
01 22 23 00-0974 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,422.61	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	113.60	
01 22 23 00-0975 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,830.73	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	311.54	
01 22 23 00-0976 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	22,088.00	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	714.30	
01 22 23 00-0977 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	1,488.96	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	126.87	
01 22 23 00-0978 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	5,801.98	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	305.79	
01 22 23 00-0979 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	22,322.60	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	761.22	
<b>01 22 23 00-0980 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0882)</b>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0981 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,216.06	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	72.29	
01 22 23 00-0982 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,099.22	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	165.24	
01 22 23 00-0983 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	20,495.89	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	395.88	
01 22 23 00-0984 DAY 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,224.67	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	74.01	
01 22 23 00-0985 WK 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,125.03	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	170.40	
01 22 23 00-0986 MO 6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	20,556.13	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	407.92	
01 22 23 00-0987 DAY 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,405.39	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	110.16	
01 22 23 00-0988 WK 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,520.91	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	249.57	
01 22 23 00-0989 MO 8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	21,528.61	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	602.42	
01 22 23 00-0990 DAY 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,422.61	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	113.60	
01 22 23 00-0991 WK 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,667.21	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	278.83	
01 22 23 00-0992 MO 12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	22,044.97	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	705.69	
01 22 23 00-0993 DAY 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	1,577.51	
<i>For Equipment Without Operator, Deduct</i>	-854.61	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	144.58	
01 22 23 00-0994 WK 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	5,916.79	
<i>For Equipment Without Operator, Deduct</i>	-4,273.04	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	328.75	
01 22 23 00-0995 MO 15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	22,475.27	
<i>For Equipment Without Operator, Deduct</i>	-18,516.51	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	791.75	



<b>General Requirements</b>			<b>01</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 22 23 00-0996 Chain Hoists** (01 22 23 00-0882)  
 Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0997	DAY	1 Ton, 20' Lift, Manual Chain Hoist	12.52
01 22 23 00-0998	WK	1 Ton, 20' Lift, Manual Chain Hoist	32.55
01 22 23 00-0999	MO	1 Ton, 20' Lift, Manual Chain Hoist	96.40
01 22 23 00-1000	DAY	3 Ton, 20' Lift, Manual Chain Hoist	35.06
01 22 23 00-1001	WK	3 Ton, 20' Lift, Manual Chain Hoist	82.63
01 22 23 00-1002	MO	3 Ton, 20' Lift, Manual Chain Hoist	231.62
01 22 23 00-1003	DAY	5 Ton, 20' Lift, Manual Chain Hoist	45.07
01 22 23 00-1004	WK	5 Ton, 20' Lift, Manual Chain Hoist	121.44
01 22 23 00-1005	MO	5 Ton, 20' Lift, Manual Chain Hoist	338.04
01 22 23 00-1006	DAY	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	88.89
01 22 23 00-1007	WK	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	231.62
01 22 23 00-1008	MO	2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	626.00
01 22 23 00-1009	DAY	3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	90.14
01 22 23 00-1010	WK	3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	241.01
01 22 23 00-1011	MO	3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	657.30
01 22 23 00-1012	DAY	5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	92.65
01 22 23 00-1013	WK	5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	259.79
01 22 23 00-1014	MO	5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist	719.90

**01 22 23 00-1015 Roof Swing Hoist** (01 22 23 00-0882)  
 Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-1016	DAY	Up To 400 Lbs, Manual Swing Roof Hoist	99.66
01 22 23 00-1017	WK	Up To 400 Lbs, Manual Swing Roof Hoist	348.83
01 22 23 00-1018	MO	Up To 400 Lbs, Manual Swing Roof Hoist	1,195.98

**01 22 23 00-1019 Truck Mounted Digger Derrick** (01 22 23 00-0882)  
 Note: Includes full-time operator, delivery, set-up, and removal time in rental period. Lifting capacity is reduced.

01 22 23 00-1020	DAY	Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,528.50	
Note: Includes lifting boom, grapple arm and auger drill.				
<i>For Equipment Without Operator, Deduct</i>				-919.97
01 22 23 00-1021	WK	Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	6,425.44	
Note: Includes lifting boom, grapple arm and auger drill.				
<i>For Equipment Without Operator, Deduct</i>				-4,599.85
01 22 23 00-1022	MO	Up To 47' Sheave Height, 34' Horizontal Reach, 12 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	24,800.91	
Note: Includes lifting boom, grapple arm and auger drill.				
<i>For Equipment Without Operator, Deduct</i>				-19,932.68
01 22 23 00-1023	DAY	Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	1,653.58	
Note: Includes lifting boom, grapple arm and auger drill.				
<i>For Equipment Without Operator, Deduct</i>				-919.97
01 22 23 00-1024	WK	Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	6,800.67	
Note: Includes lifting boom, grapple arm and auger drill.				
<i>For Equipment Without Operator, Deduct</i>				-4,599.85
01 22 23 00-1025	MO	Up To 48' Sheave Height, 38' Horizontal Reach, 15 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	25,801.54	
Note: Includes lifting boom, grapple arm and auger drill.				
<i>For Equipment Without Operator, Deduct</i>				-19,932.68
01 22 23 00-1026	DAY	Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	2,426.49	
Note: Includes lifting boom, grapple arm and auger drill.				
<i>For Equipment Without Operator, Deduct</i>				-919.97
01 22 23 00-1027	WK	Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	9,119.40	
Note: Includes lifting boom, grapple arm and auger drill.				
<i>For Equipment Without Operator, Deduct</i>				-4,599.85
01 22 23 00-1028	MO	Up To 65' Sheave Height, 55' Horizontal Reach, 21 Ton Capacity, Truck Mounted Hydraulic Digger Derrick With Full-Time Operator	31,984.82	
Note: Includes lifting boom, grapple arm and auger drill.				
<i>For Equipment Without Operator, Deduct</i>				-19,932.68

**01 22 23 00-1029 Pumping Equipment** (01 22 23)

**01 22 23 00-1030 Gas Powered Portable Centrifugal Pumps** (01 22 23 00-1029)  
 Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-1054 for larger diameter pumps.

01 22 23 00-1031	DAY	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	72.56
01 22 23 00-1032	WK	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	163.27
01 22 23 00-1033	MO	8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump	435.38
01 22 23 00-1034	DAY	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	87.08
01 22 23 00-1035	WK	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	195.92
01 22 23 00-1036	MO	16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump	522.46



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

01 22 23 00-1037	Gas Powered Portable Diaphragm Pumps (01 22 23 00-1029)		
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1038	DAY 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	83.45	
01 22 23 00-1039	WK 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	235.83	
01 22 23 00-1040	MO 3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	598.65	
01 22 23 00-1041	DAY 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	101.59	
01 22 23 00-1042	WK 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	272.12	
01 22 23 00-1043	MO 5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump	770.99	
<b>01 22 23 00-1044 Gas Powered Portable Trash Pumps (01 22 23 00-1029)</b>			
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1045	DAY 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	105.22	
01 22 23 00-1046	WK 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	217.69	
01 22 23 00-1047	MO 12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump	653.08	
01 22 23 00-1048	DAY 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	105.22	
01 22 23 00-1049	WK 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	281.19	
01 22 23 00-1050	MO 25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump	770.99	
01 22 23 00-1051	DAY 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	166.90	
01 22 23 00-1052	WK 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	471.67	
01 22 23 00-1053	MO 35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump	1,369.65	
<b>01 22 23 00-1054 Diesel Powered Portable Trash Pumps (01 22 23 00-1029)</b>			
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1055	DAY 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	326.54	
01 22 23 00-1056	WK 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	888.91	
01 22 23 00-1057	MO 63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump	3,873.10	
01 22 23 00-1058	DAY 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	498.88	
01 22 23 00-1059	WK 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,306.15	
01 22 23 00-1060	MO 156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	3,474.00	
01 22 23 00-1061	DAY 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	678.47	
01 22 23 00-1062	WK 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	1,815.91	
01 22 23 00-1063	MO 246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump	4,858.16	
01 22 23 00-1064	DAY 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	878.02	
01 22 23 00-1065	WK 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	2,242.23	
01 22 23 00-1066	MO 379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump	6,585.18	
<b>01 22 23 00-1067 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-1029)</b>			
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1068	DAY 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	466.22	
01 22 23 00-1069	WK 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,061.25	
01 22 23 00-1070	MO 90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,308.92	
01 22 23 00-1071	DAY 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	571.44	
01 22 23 00-1072	WK 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,424.07	
01 22 23 00-1073	MO 136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	3,873.10	
01 22 23 00-1074	DAY 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	689.36	
01 22 23 00-1075	WK 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,039.05	
01 22 23 00-1076	MO 246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	5,687.20	
01 22 23 00-1077	DAY 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	1,037.67	
01 22 23 00-1078	WK 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	2,650.40	
01 22 23 00-1079	MO 510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump	7,782.49	
<b>01 22 23 00-1080 3 Phase Electric Submersible Pumps (01 22 23 00-1029)</b>			
Note: Includes delivery, set-up, and removal. Excludes operator.			
01 22 23 00-1081	DAY 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	181.41	
01 22 23 00-1082	WK 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	453.52	
01 22 23 00-1083	MO 24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump	1,360.58	
01 22 23 00-1084	DAY 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	239.46	
01 22 23 00-1085	WK 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	598.65	
01 22 23 00-1086	MO 49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump	1,795.96	
<b>01 22 23 00-1087 Suction Hose With Couplings (01 22 23 00-1029)</b>			
Note: Includes delivery, set-up, and removal.			
01 22 23 00-1088	DAY Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	5.28	
01 22 23 00-1089	WK Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	13.20	
01 22 23 00-1090	MO Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings	40.48	
01 22 23 00-1091	DAY 3" Inside Diameter, 20' Length, Suction Hose With Couplings	14.08	
01 22 23 00-1092	WK 3" Inside Diameter, 20' Length, Suction Hose With Couplings	36.08	
01 22 23 00-1093	MO 3" Inside Diameter, 20' Length, Suction Hose With Couplings	110.00	
01 22 23 00-1094	DAY 4" Inside Diameter, 20' Length, Suction Hose With Couplings	21.12	
01 22 23 00-1095	WK 4" Inside Diameter, 20' Length, Suction Hose With Couplings	53.68	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1096	MO		4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	162.80	
01 22 23 00-1097	DAY		6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	26.40	
01 22 23 00-1098	WK		6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	66.00	
01 22 23 00-1099	MO		6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	193.60	
01 22 23 00-1100	DAY		10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	61.60	
01 22 23 00-1101	WK		10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	158.40	
01 22 23 00-1102	MO		10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	466.40	
01 22 23 00-1103	DAY		12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	82.72	
01 22 23 00-1104	WK		12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	180.40	
01 22 23 00-1105	MO		12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	541.20	
<b>01 22 23 00-1106</b>			<b>Discharge Hose With Couplings (01 22 23 00-1029)</b>		
Note: Includes delivery, set-up, and removal.					
01 22 23 00-1107	DAY		1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	5.28	
01 22 23 00-1108	WK		1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	13.20	
01 22 23 00-1109	MO		1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	40.48	
01 22 23 00-1110	DAY		2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	6.16	
01 22 23 00-1111	WK		2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	14.96	
01 22 23 00-1112	MO		2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	46.64	
01 22 23 00-1113	DAY		3" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	7.04	
01 22 23 00-1114	WK		3" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	17.60	
01 22 23 00-1115	MO		3" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	53.68	
01 22 23 00-1116	DAY		4" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	18.48	
01 22 23 00-1117	WK		4" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	47.52	
01 22 23 00-1118	MO		4" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	136.40	
01 22 23 00-1119	DAY		6" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	22.88	
01 22 23 00-1120	WK		6" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	62.48	
01 22 23 00-1121	MO		6" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	171.60	
01 22 23 00-1122	DAY		10" Inside Diameter, 10' Length, Discharge Hose With Couplings .....	17.60	
01 22 23 00-1123	WK		10" Inside Diameter, 10' Length, Discharge Hose With Couplings .....	44.00	
01 22 23 00-1124	MO		10" Inside Diameter, 10' Length, Discharge Hose With Couplings .....	132.00	
01 22 23 00-1125	DAY		12" Inside Diameter, 10' Length, Discharge Hose With Couplings .....	44.88	
01 22 23 00-1126	WK		12" Inside Diameter, 10' Length, Discharge Hose With Couplings .....	114.40	
01 22 23 00-1127	MO		12" Inside Diameter, 10' Length, Discharge Hose With Couplings .....	338.80	
<b>01 22 23 00-1128</b>			<b>Hydraulic Submersible Pumps (01 22 23 00-1029)</b>		
Note: Includes delivery, set-up, and removal. Excludes operator.					
<b>01 22 23 00-1129</b>			<b>Hydraulic Submersible Pumps (01 22 23 00-1128)</b>		
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-1130	DAY		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	119.73	
01 22 23 00-1131	WK		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	321.10	
01 22 23 00-1132	MO		60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump.....	897.98	
01 22 23 00-1133	DAY		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	152.38	
01 22 23 00-1134	WK		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	391.85	
01 22 23 00-1135	MO		132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump.....	1,197.31	
<b>01 22 23 00-1136</b>			<b>Hydraulic Submersible Pump Diesel Power Packs (01 22 23 00-1128)</b>		
Note: Includes delivery, set-up, and removal. Excludes operator.					
01 22 23 00-1137	DAY		100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	276.65	
01 22 23 00-1138	WK		100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	825.42	
01 22 23 00-1139	MO		100 HP, Hydraulic Submersible Pump Diesel Power Pack.....	2,176.92	
<b>01 22 23 00-1140</b>			<b>HDPE Pipe With Couplings (01 22 23 00-1029)</b>		
Note: Includes delivery, set-up, and removal.					
01 22 23 00-1141	DAY		4" x 20' HDPE Pipe With Couplings.....	16.48	
01 22 23 00-1142	WK		4" x 20' HDPE Pipe With Couplings.....	39.55	
01 22 23 00-1143	MO		4" x 20' HDPE Pipe With Couplings.....	121.95	
01 22 23 00-1144	DAY		6" x 20' HDPE Pipe With Couplings.....	26.37	
01 22 23 00-1145	WK		6" x 20' HDPE Pipe With Couplings.....	65.92	
01 22 23 00-1146	MO		6" x 20' HDPE Pipe With Couplings.....	201.05	
01 22 23 00-1147	DAY		8" x 20' HDPE Pipe With Couplings.....	42.85	
01 22 23 00-1148	WK		8" x 20' HDPE Pipe With Couplings.....	112.06	
01 22 23 00-1149	MO		8" x 20' HDPE Pipe With Couplings.....	332.89	
01 22 23 00-1150	DAY		10" x 20' HDPE Pipe With Couplings.....	52.73	
01 22 23 00-1151	WK		10" x 20' HDPE Pipe With Couplings.....	135.13	
01 22 23 00-1152	MO		10" x 20' HDPE Pipe With Couplings.....	411.99	
01 22 23 00-1153	DAY		12" x 10' HDPE Pipe With Couplings.....	39.55	
01 22 23 00-1154	WK		12" x 10' HDPE Pipe With Couplings.....	108.76	
01 22 23 00-1155	MO		12" x 10' HDPE Pipe With Couplings.....	329.59	
01 22 23 00-1156	DAY		4" Elbow For HDPE Pipe, Quick Connect.....	39.55	
01 22 23 00-1157	WK		4" Elbow For HDPE Pipe, Quick Connect.....	102.17	
01 22 23 00-1158	MO		4" Elbow For HDPE Pipe, Quick Connect.....	303.22	
01 22 23 00-1159	DAY		6" Elbow For HDPE Pipe, Quick Connect.....	46.14	
01 22 23 00-1160	WK		6" Elbow For HDPE Pipe, Quick Connect.....	118.65	
01 22 23 00-1161	MO		6" Elbow For HDPE Pipe, Quick Connect.....	362.55	
01 22 23 00-1162	DAY		8" Elbow For HDPE Pipe, Quick Connect.....	52.73	
01 22 23 00-1163	WK		8" Elbow For HDPE Pipe, Quick Connect.....	135.13	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

01 22 23 00-1164	MO	8" Elbow For HDPE Pipe, Quick Connect.....	411.99	
01 22 23 00-1165	DAY	10" Elbow For HDPE Pipe, Quick Connect.....	65.92	
01 22 23 00-1166	WK	10" Elbow For HDPE Pipe, Quick Connect.....	168.09	
01 22 23 00-1167	MO	10" Elbow For HDPE Pipe, Quick Connect.....	510.86	
01 22 23 00-1168	DAY	12" Elbow For HDPE Pipe, Quick Connect.....	65.92	
01 22 23 00-1169	WK	12" Elbow For HDPE Pipe, Quick Connect.....	168.09	
01 22 23 00-1170	MO	12" Elbow For HDPE Pipe, Quick Connect.....	510.86	
01 22 23 00-1171	DAY	4" Tee For HDPE Pipe, Quick Connect.....	39.55	
01 22 23 00-1172	WK	4" Tee For HDPE Pipe, Quick Connect.....	102.17	
01 22 23 00-1173	MO	4" Tee For HDPE Pipe, Quick Connect.....	303.22	
01 22 23 00-1174	DAY	6" Tee For HDPE Pipe, Quick Connect.....	52.73	
01 22 23 00-1175	WK	6" Tee For HDPE Pipe, Quick Connect.....	135.13	
01 22 23 00-1176	MO	6" Tee For HDPE Pipe, Quick Connect.....	411.99	
01 22 23 00-1177	DAY	8" Tee For HDPE Pipe, Quick Connect.....	65.92	
01 22 23 00-1178	WK	8" Tee For HDPE Pipe, Quick Connect.....	168.09	
01 22 23 00-1179	MO	8" Tee For HDPE Pipe, Quick Connect.....	510.86	
01 22 23 00-1180	DAY	10" Tee For HDPE Pipe, Quick Connect.....	79.10	
01 22 23 00-1181	WK	10" Tee For HDPE Pipe, Quick Connect.....	201.05	
01 22 23 00-1182	MO	10" Tee For HDPE Pipe, Quick Connect.....	609.74	
01 22 23 00-1183	DAY	12" Tee For HDPE Pipe, Quick Connect.....	79.10	
01 22 23 00-1184	WK	12" Tee For HDPE Pipe, Quick Connect.....	201.05	
01 22 23 00-1185	MO	12" Tee For HDPE Pipe, Quick Connect.....	609.74	
01 22 23 00-1186	DAY	4" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1187	WK	4" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1188	MO	4" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1189	DAY	6" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1190	WK	6" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1191	MO	6" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1192	DAY	8" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1193	WK	8" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1194	MO	8" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1195	DAY	10" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1196	WK	10" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1197	MO	10" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1198	DAY	12" Cap For HDPE Pipe, Quick Connect.....	6.59	
01 22 23 00-1199	WK	12" Cap For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1200	MO	12" Cap For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1201	DAY	4" Wye For HDPE Pipe, Quick Connect.....	19.78	
01 22 23 00-1202	WK	4" Wye For HDPE Pipe, Quick Connect.....	49.44	
01 22 23 00-1203	MO	4" Wye For HDPE Pipe, Quick Connect.....	151.61	
01 22 23 00-1204	DAY	6" Wye For HDPE Pipe, Quick Connect.....	23.07	
01 22 23 00-1205	WK	6" Wye For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1206	MO	6" Wye For HDPE Pipe, Quick Connect.....	181.27	
01 22 23 00-1207	DAY	8" Wye For HDPE Pipe, Quick Connect.....	39.55	
01 22 23 00-1208	WK	8" Wye For HDPE Pipe, Quick Connect.....	102.17	
01 22 23 00-1209	MO	8" Wye For HDPE Pipe, Quick Connect.....	303.22	
01 22 23 00-1210	DAY	10" Wye For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1211	WK	10" Wye For HDPE Pipe, Quick Connect.....	151.61	
01 22 23 00-1212	MO	10" Wye For HDPE Pipe, Quick Connect.....	461.43	
01 22 23 00-1213	DAY	12" Wye For HDPE Pipe, Quick Connect.....	59.33	
01 22 23 00-1214	WK	12" Wye For HDPE Pipe, Quick Connect.....	151.61	
01 22 23 00-1215	MO	12" Wye For HDPE Pipe, Quick Connect.....	461.43	

01 22 23 00-1216 Temporary Building Services (01 22 23)

01 22 23 00-1217 Boilers (01 22 23 00-1216)

Note: Excludes operator, delivery, set-up, and removal.

01 22 23 00-1218 Electric Boilers (01 22 23 00-1217)

01 22 23 00-1219	MO	40 MBH, 12 KW Electric Boiler Rental.....	2,596.99	
01 22 23 00-1220	MO	60 MBH, 20 KW Electric Boiler Rental.....	2,833.12	
01 22 23 00-1221	MO	95 MBH, 30 KW Electric Boiler Rental.....	2,951.18	
01 22 23 00-1222	MO	135 MBH, 40 KW Electric Boiler Rental.....	3,305.26	
01 22 23 00-1223	MO	165 MBH, 50 KW Electric Boiler Rental.....	4,603.76	
01 22 23 00-1224	MO	215 MBH, 60 KW Electric Boiler Rental.....	5,312.05	
01 22 23 00-1225	MO	365 MBH, 100 KW Electric Boiler Rental.....	6,964.74	
01 22 23 00-1226	MO	510 MBH, 150 KW Electric Boiler Rental.....	8,499.35	

01 22 23 00-1227 Oil/Gas Fired Boilers (01 22 23 00-1217)

01 22 23 00-1228	MO	Up To 100 HP, Gas/Oil Dual Fuel Boiler Rental.....	2,479.00	
		For >3 Months Rental, Deduct.....	-371.85	
01 22 23 00-1229	MO	>100 HP To 250 HP, Gas/Oil Dual Fuel Boiler Rental.....	3,222.70	
		For >3 Months Rental, Deduct.....	-483.41	
01 22 23 00-1230	MO	>250 HP To 500 HP, Gas/Oil Dual Fuel Boiler Rental.....	5,205.90	
		For >3 Months Rental, Deduct.....	-780.89	
01 22 23 00-1231	MO	>500 HP To 800 HP, Gas/Oil Dual Fuel Boiler Rental.....	7,189.10	
		For >3 Months Rental, Deduct.....	-1,078.37	

01 22 23 00-1232 Oil Fired Boilers (01 22 23 00-1217)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1233 MO 250 HP Oil Fired Boiler Rental.....	7,293.67	
01 22 23 00-1234 MO 350 HP Oil Fired Boiler Rental.....	9,724.90	
01 22 23 00-1235 MO 500 HP Oil Fired Boiler Rental.....	12,156.12	
01 22 23 00-1236 MO 600 HP Oil Fired Boiler Rental.....	13,371.73	
<b>01 22 23 00-1237 Boilers Setup</b> (01 22 23 00-1217)		
01 22 23 00-1238 EA Setup Rental Boiler.....	7,720.14	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
<b>01 22 23 00-1239 Chillers</b> (01 22 23 00-1216)		
Note: Excludes operator, delivery, set-up, and removal.		
<b>01 22 23 00-1240 Air Cooled Chillers</b> (01 22 23 00-1239)		
01 22 23 00-1241 MO 25 Ton Air Cooled Chiller Rental.....	2,494.67	
For >3 To 6 Month Rental, Deduct		
	-374.20	
For >6 Month Rental, Deduct		
	-623.67	
01 22 23 00-1242 MO 40 Ton Air Cooled Chiller Rental.....	3,991.48	
For >3 To 6 Month Rental, Deduct		
	-598.72	
For >6 Month Rental, Deduct		
	-997.87	
01 22 23 00-1243 MO 60 Ton Air Cooled Chiller Rental.....	4,882.03	
For >3 To 6 Month Rental, Deduct		
	-732.30	
For >6 Month Rental, Deduct		
	-1,220.51	
01 22 23 00-1244 MO 80 Ton Air Cooled Chiller Rental.....	5,772.58	
For >3 To 6 Month Rental, Deduct		
	-865.89	
For >6 Month Rental, Deduct		
	-1,443.15	
01 22 23 00-1245 MO 100 Ton Air Cooled Chiller Rental.....	6,663.13	
For >3 To 6 Month Rental, Deduct		
	-999.47	
For >6 Month Rental, Deduct		
	-1,665.78	
01 22 23 00-1246 MO 125 Ton Air Cooled Chiller Rental.....	7,719.37	
For >3 To 6 Month Rental, Deduct		
	-1,157.91	
For >6 Month Rental, Deduct		
	-1,929.84	
01 22 23 00-1247 MO 155 Ton Air Cooled Chiller Rental.....	9,338.54	
For >3 To 6 Month Rental, Deduct		
	-1,400.78	
For >6 Month Rental, Deduct		
	-2,334.64	
01 22 23 00-1248 MO 170 Ton Air Cooled Chiller Rental.....	9,986.22	
For >3 To 6 Month Rental, Deduct		
	-1,497.93	
For >6 Month Rental, Deduct		
	-2,496.56	
01 22 23 00-1249 MO 200 Ton Air Cooled Chiller Rental.....	11,471.73	
For >3 To 6 Month Rental, Deduct		
	-1,720.76	
For >6 Month Rental, Deduct		
	-2,867.93	
01 22 23 00-1250 MO 250 Ton Air Cooled Chiller Rental.....	13,650.10	
For >3 To 6 Month Rental, Deduct		
	-2,047.52	
For >6 Month Rental, Deduct		
	-3,412.53	
01 22 23 00-1251 MO 300 Ton Air Cooled Chiller Rental.....	15,928.25	
Note: Includes trailer.		
For >3 To 6 Month Rental, Deduct		
	-2,389.24	
For >6 Month Rental, Deduct		
	-3,982.06	
01 22 23 00-1252 MO 400 Ton Air Cooled Chiller Rental.....	21,011.74	
Note: Includes trailer, pump and 200' of 6" hose.		
For >3 To 6 Month Rental, Deduct		
	-3,151.76	
For >6 Month Rental, Deduct		
	-5,252.94	
01 22 23 00-1253 MO 500 Ton Air Cooled Chiller Rental.....	26,008.61	
Note: Includes trailer, pump and 200' of 6" hose.		
For >3 To 6 Month Rental, Deduct		
	-3,901.29	
For >6 Month Rental, Deduct		
	-6,502.15	
01 22 23 00-1254 EA Setup Air Cooled Chiller Rental Unit.....	5,366.44	
Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded.		
<b>01 22 23 00-1255 Chiller Rental Accessories</b> (01 22 23 00-1239)		
01 22 23 00-1256 MO 4" x 25' Flexible Water Hose For Chiller Rental.....	44.45	
01 22 23 00-1257 MO 6" x 25' Flexible Water Hose For Chiller Rental.....	55.56	
<b>01 22 23 00-1258 Cooling Tower</b> (01 22 23 00-1216)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1259 MO 100 Ton Cooling Tower Rental.....	2,289.28	
For >3 To 6 Months Rental, Deduct		
	-343.39	
For >6 Months Rental, Deduct		
	-572.32	
01 22 23 00-1260 MO 200 Ton Cooling Tower Rental.....	4,167.38	
For >3 To 6 Months Rental, Deduct		
	-625.11	
For >6 Months Rental, Deduct		
	-1,041.85	
01 22 23 00-1261 MO 250 Ton Cooling Tower Rental.....	4,719.36	
For >3 To 6 Months Rental, Deduct		
	-707.90	
For >6 Months Rental, Deduct		
	-1,179.84	
01 22 23 00-1262 MO 300 Ton Cooling Tower Rental.....	5,334.24	
For >3 To 6 Months Rental, Deduct		
	-800.14	
For >6 Months Rental, Deduct		
	-1,333.56	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1263 MO 400 Ton Cooling Tower Rental .....	6,667.80	
For >3 To 6 Months Rental, Deduct .....	-1,000.17	
For >6 Months Rental, Deduct .....	-1,666.95	
01 22 23 00-1264 MO 500 Ton Cooling Tower Rental .....	7,795.80	
For >3 To 6 Months Rental, Deduct .....	-1,169.37	
For >6 Months Rental, Deduct .....	-1,948.95	
01 22 23 00-1265 MO Setup Rental Cooling Tower .....	5,366.44	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		
<b>01 22 23 00-1266 Emergency Cooler/Freezer</b> <small>(01 22 23 00-1216)</small>		
Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115 Volt or 230 Volt, freezer 208/230 Volt, combo 115 Volt or 230 Volt.		
01 22 23 00-1267 DAY 8 x 6 x 7 Emergency Cooler Rental .....	126.92	
01 22 23 00-1268 WK 8 x 6 x 7 Emergency Cooler Rental .....	676.88	
01 22 23 00-1269 DAY 10 x 7 x 7 Emergency Cooler Rental .....	253.83	
01 22 23 00-1270 WK 10 x 7 x 7 Emergency Cooler Rental .....	1,015.32	
01 22 23 00-1271 MO 10 x 7 x 7 Emergency Cooler Rental .....	2,538.30	
01 22 23 00-1272 DAY 10 x 7 x 7 Emergency Freezer Rental .....	296.14	
01 22 23 00-1273 WK 10 x 7 x 7 Emergency Freezer Rental .....	1,184.54	
01 22 23 00-1274 MO 10 x 7 x 7 Emergency Freezer Rental .....	3,045.96	
01 22 23 00-1275 DAY 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental .....	338.44	
01 22 23 00-1276 WK 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental .....	1,353.76	
01 22 23 00-1277 MO 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental .....	3,384.40	
<b>01 22 23 00-1278 Portable Spot Cooling Units</b> <small>(01 22 23 00-1216)</small>		
Note: Includes up to 20' duct. Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1279 DAY 1 Ton Portable Spot Cooling Unit .....	186.84	
01 22 23 00-1280 WK 1 Ton Portable Spot Cooling Unit .....	404.82	
01 22 23 00-1281 MO 1 Ton Portable Spot Cooling Unit .....	956.96	
01 22 23 00-1282 DAY 1.5 Ton Portable Spot Cooling Unit .....	244.33	
01 22 23 00-1283 WK 1.5 Ton Portable Spot Cooling Unit .....	501.84	
01 22 23 00-1284 MO 1.5 Ton Portable Spot Cooling Unit .....	1,177.34	
01 22 23 00-1285 DAY 2 Ton Portable Spot Cooling Unit .....	329.37	
01 22 23 00-1286 WK 2 Ton Portable Spot Cooling Unit .....	688.68	
01 22 23 00-1287 MO 2 Ton Portable Spot Cooling Unit .....	1,275.55	
01 22 23 00-1288 DAY 3 Ton Portable Spot Cooling Unit .....	344.94	
01 22 23 00-1289 WK 3 Ton Portable Spot Cooling Unit .....	730.60	
01 22 23 00-1290 MO 3 Ton Portable Spot Cooling Unit .....	1,614.50	
01 22 23 00-1291 DAY 5 Ton Portable Spot Cooling Unit .....	538.96	
01 22 23 00-1292 WK 5 Ton Portable Spot Cooling Unit .....	1,089.91	
01 22 23 00-1293 MO 5 Ton Portable Spot Cooling Unit .....	2,264.85	
01 22 23 00-1294 DAY 10 To 12 Ton Portable Spot Cooling Unit .....	704.25	
01 22 23 00-1295 WK 10 To 12 Ton Portable Spot Cooling Unit .....	1,586.95	
01 22 23 00-1296 MO 10 To 12 Ton Portable Spot Cooling Unit .....	3,830.24	
01 22 23 00-1297 DAY 20 Ton Portable Spot Cooling Unit .....	808.45	
01 22 23 00-1298 WK 20 Ton Portable Spot Cooling Unit .....	1,856.44	
01 22 23 00-1299 MO 20 Ton Portable Spot Cooling Unit .....	5,174.06	
01 22 23 00-1300 DAY 25 Ton Portable Spot Cooling Unit .....	1,149.79	
01 22 23 00-1301 WK 25 Ton Portable Spot Cooling Unit .....	2,329.53	
01 22 23 00-1302 MO 25 Ton Portable Spot Cooling Unit .....	5,419.59	
01 22 23 00-1303 EA Setup Rental Of Up To 5 Ton Portable Spot Cooler .....	243.20	
Note: Includes delivery, setup, connection to power outlet and connection to duct and removal. Excludes electrical wiring.		
01 22 23 00-1304 EA Setup Rental Of 10 To 15 Ton Portable Spot Cooler .....	560.84	
Note: Includes delivery, setup, connection to power outlet and connection to duct and removal. Excludes electrical wiring.		
01 22 23 00-1305 EA Setup Rental Of 20 To 25 Ton Portable Spot Cooler .....	826.82	
Note: Includes delivery, setup, connection to power outlet and connection to duct and removal. Excludes electrical wiring.		
<b>01 22 23 00-1306 Fuel Oil Tank</b> <small>(01 22 23 00-1216)</small>		
Note: Excludes delivery to job site and pick-up when complete. Excludes Off-road fuel costs. See CSI section 01 22 23 00-0772 for reimbursable fuel fees.		
01 22 23 00-1307 MO 100 Gallon Portable Double Wall Fuel Oil Tank Rental .....	392.12	
01 22 23 00-1308 MO 275 Gallon Portable Double Wall Fuel Oil Tank Rental .....	609.97	
01 22 23 00-1309 MO 500 Gallon Portable Double Wall Fuel Oil Tank Rental .....	1,524.92	
01 22 23 00-1310 MO 1,000 Gallon Portable Double Wall Fuel Oil Tank Rental .....	2,541.52	
01 22 23 00-1311 MO 2,300 Gallon Portable Double Wall Fuel Oil Tank Rental .....	3,354.81	
01 22 23 00-1312 MO 5,000 Gallon Portable Double Wall Fuel Oil Tank Rental .....	5,993.16	
<b>01 22 23 00-1313 Truck And Trailer Equipment</b> <small>(01 22 23)</small>		
<b>01 22 23 00-1314 Trucks</b> <small>(01 22 23 00-1313)</small>		
Note: Includes driver, delivery, and removal.		
<b>01 22 23 00-1315 Flat Bed Trucks</b> <small>(01 22 23 00-1314)</small>		
Note: Includes hydraulic tilt bed.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1316 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,032.74 -727.16	
01 22 23 00-1317 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,436.93 -3,635.81	
01 22 23 00-1318 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	17,778.65 -15,755.19	
01 22 23 00-1319 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,164.89 -727.16	
01 22 23 00-1320 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,775.55 -3,635.81	
01 22 23 00-1321 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	18,645.84 -15,755.19	
01 22 23 00-1322 DAY 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,259.70 -727.16	
01 22 23 00-1323 WK 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	5,137.96 -3,635.81	
01 22 23 00-1324 MO 6-1/2 Ton Capacity, 16' To 22' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	20,025.09 -15,755.19	
<b>01 22 23 00-1325 Boom Trucks</b> <small>(01 22 23 00-1314)</small>		
01 22 23 00-1326 DAY 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i> <i>For High Rail Equipment, Add</i>	1,296.21 -727.16 199.17	
01 22 23 00-1327 WK 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i> <i>For High Rail Equipment, Add</i>	5,117.47 -3,635.81 518.58	
01 22 23 00-1328 MO 3-1/2 Ton, 4 x 2 Boom Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i> <i>For High Rail Equipment, Add</i>	19,513.03 -15,755.19 1,315.24	
<b>01 22 23 00-1329 Light Off-Road Utility Passenger Vehicles</b> <small>(01 22 23 00-1314)</small>		
01 22 23 00-1330 DAY 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	298.72	
01 22 23 00-1331 WK 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	690.79	
01 22 23 00-1332 MO 4 Wheel, 2 Person, Light Off Road Utility Passenger Vehicle.....	1,493.60	
01 22 23 00-1333 DAY 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	308.06	
01 22 23 00-1334 WK 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	718.80	
01 22 23 00-1335 MO 4 Wheel, 4 Person, Light Off Road Utility Passenger Vehicle.....	1,586.95	
<b>01 22 23 00-1336 Light Duty Trucks</b> <small>(01 22 23 00-1314)</small>		
01 22 23 00-1337 DAY 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver..... <i>For Equipment Without Operator, Deduct</i>	950.07 -720.29	
01 22 23 00-1338 WK 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,355.40 -3,601.45	
01 22 23 00-1339 MO 1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	17,185.99 -15,606.28	
01 22 23 00-1340 DAY 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	993.15 -720.29	
01 22 23 00-1341 WK 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,484.65 -3,601.45	
01 22 23 00-1342 MO 3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	17,473.21 -15,606.28	
<b>01 22 23 00-1343 Rear Dump Trucks</b> <small>(01 22 23 00-1314)</small>		
01 22 23 00-1344 DAY 2.5 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,117.53 -727.16	
01 22 23 00-1345 WK 2.5 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,666.91 -3,635.81	
01 22 23 00-1346 MO 2.5 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	18,912.13 -15,755.19	
01 22 23 00-1347 DAY 4 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,246.95 -727.16	
01 22 23 00-1348 WK 4 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	5,067.89 -3,635.81	
01 22 23 00-1349 MO 4 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	19,467.99 -15,755.19	
01 22 23 00-1350 DAY 6 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,321.21 -727.16	
01 22 23 00-1351 WK 6 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	5,227.01 -3,635.81	
01 22 23 00-1352 MO 6 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	19,574.07 -15,755.19	
01 22 23 00-1353 DAY 13 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	2,201.67 -727.16	
01 22 23 00-1354 WK 13 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	7,040.98 -3,635.81	
01 22 23 00-1355 MO 13 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	24,665.91 -15,755.19	
01 22 23 00-1356 DAY 18 CY Rear Dump Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	2,349.12 -727.16	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1357 WK 18 CY Rear Dump Truck With Full-Time Truck Driver .....	7,381.49	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
01 22 23 00-1358 MO 18 CY Rear Dump Truck With Full-Time Truck Driver .....	25,556.98	
<i>For Equipment Without Operator, Deduct</i>	-15,755.19	
<b>01 22 23 00-1359 Vacuum Trucks</b> <small>(01 22 23 00-1314)</small>		
01 22 23 00-1360 DAY 5,000 Gallon Vacuum Truck With Full-Time Truck Driver .....	2,191.06	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1361 WK 5,000 Gallon Vacuum Truck With Full-Time Truck Driver .....	8,044.49	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
01 22 23 00-1362 MO 5,000 Gallon Vacuum Truck With Full-Time Truck Driver .....	28,764.84	
<i>For Equipment Without Operator, Deduct</i>	-15,755.19	
<b>01 22 23 00-1363 Water Trucks</b> <small>(01 22 23 00-1314)</small>		
<small>Note: Includes pump and 1-1/2" Diameter x 50' water hose. See CSI section 01 22 23 00-1106 for additional discharge hose, 01 22 23 00-1395 for water trailer, 31 23 23 23-0001 for compaction water as required for earth/aggregate backfill.</small>		
01 22 23 00-1364 DAY 2,000 Gallon Water Truck With Full-Time Driver .....	1,410.66	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	14.40	
01 22 23 00-1365 WK 2,000 Gallon Water Truck With Full-Time Driver .....	5,435.71	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	14.40	
01 22 23 00-1366 MO 2,000 Gallon Water Truck With Full-Time Driver .....	20,008.11	
<i>For Equipment Without Operator, Deduct</i>	-15,755.19	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	14.40	
01 22 23 00-1367 DAY 3,700 To 4,000 Gallon Water Truck With Full-Time Driver .....	1,744.82	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	14.40	
01 22 23 00-1368 WK 3,700 To 4,000 Gallon Water Truck With Full-Time Driver .....	6,438.18	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	14.40	
01 22 23 00-1369 MO 3,700 To 4,000 Gallon Water Truck With Full-Time Driver .....	22,590.24	
<i>For Equipment Without Operator, Deduct</i>	-15,755.19	
<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	14.40	
<b>01 22 23 00-1370 Asphalt Distribution Trucks</b> <small>(01 22 23 00-1314)</small>		
01 22 23 00-1371 DAY 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver .....	2,142.75	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1372 WK 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver .....	7,864.42	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
01 22 23 00-1373 MO 3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver .....	28,256.01	
<i>For Equipment Without Operator, Deduct</i>	-15,755.19	
<b>01 22 23 00-1374 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board</b> <small>(01 22 23 00-1314)</small>		
01 22 23 00-1375 DAY Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver .....	1,465.70	
<i>For Equipment Without Operator, Deduct</i>	-720.29	
01 22 23 00-1376 WK Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver .....	5,801.37	
<i>For Equipment Without Operator, Deduct</i>	-3,601.45	
01 22 23 00-1377 MO Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver .....	20,948.71	
<i>For Equipment Without Operator, Deduct</i>	-15,606.28	
<b>01 22 23 00-1378 Combination Jet/Vacuum Trucks</b> <small>(01 22 23 00-1314)</small>		
01 22 23 00-1379 DAY 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....	3,179.46	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1380 WK 500 Gallon Water, 6 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....	15,115.54	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
01 22 23 00-1381 DAY 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....	3,607.38	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1382 WK 1,000 Gallon Water, 10 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....	17,604.88	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
01 22 23 00-1383 DAY 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....	4,018.84	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1384 WK 2,000 Gallon Water, 15 CY Debris, Combination Jet/Vacuum Truck With Full-Time Truck Driver .....	20,094.21	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
<b>01 22 23 00-1385 Straight/Box Trucks</b> <small>(01 22 23 00-1314)</small>		
01 22 23 00-1386 DAY 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver .....	857.65	
<small>Note: Includes 2,500 LB lift gate.</small>		
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1387 WK 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver .....	4,288.27	
<small>Note: Includes 2,500 LB lift gate.</small>		
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1388 MO 18,000 LB Capacity, 24' Straight/Box Truck With Full-Time Truck Driver ..... Note: Includes 2,500 LB lift gate. <i>For Equipment Without Operator, Deduct</i>	17,681.19	-15,755.19
<b>01 22 23 00-1389 Truck Mounted Accessories</b> (01 22 23 00-1313) Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-1390 Truck Mounted Arrow Boards</b> (01 22 23 00-1389)		
01 22 23 00-1391 DAY Truck Mounted Arrow Board .....	55.92	
01 22 23 00-1392 WK Truck Mounted Arrow Board .....	222.39	
01 22 23 00-1393 MO Truck Mounted Arrow Board .....	792.98	
<b>01 22 23 00-1394 Trailers</b> (01 22 23 00-1313) Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-1395 Water Trailers With Pump</b> (01 22 23 00-1394)		
01 22 23 00-1396 DAY 500 To 600 Gallon Water Trailer With Pump .....	174.67	
01 22 23 00-1397 WK 500 To 600 Gallon Water Trailer With Pump .....	448.08	
01 22 23 00-1398 MO 500 To 600 Gallon Water Trailer With Pump .....	1,199.93	
<b>01 22 23 00-1399 Trailer Mounted Equipment</b> (01 22 23 00-1313)		
<b>01 22 23 00-1400 Trailer Mounted Under-Bridge Aerial Access Platform</b> (01 22 23 00-1399) Note: Includes full-time operator. Excludes truck.		
01 22 23 00-1401 DAY Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator .....	2,859.27	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1402 WK Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator .....	10,032.14	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
01 22 23 00-1403 MO Trailer Mounted Under-Bridge Aerial Access 32' With Full-Time Operator .....	33,522.78	
<i>For Equipment Without Operator, Deduct</i>	-15,755.19	
01 22 23 00-1404 DAY Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator .....	3,072.48	
<i>For Equipment Without Operator, Deduct</i>	-727.16	
01 22 23 00-1405 WK Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator .....	10,671.78	
<i>For Equipment Without Operator, Deduct</i>	-3,635.81	
01 22 23 00-1406 MO Trailer Mounted Under-Bridge Aerial Access 35' With Full-Time Operator .....	35,299.54	
<i>For Equipment Without Operator, Deduct</i>	-15,755.19	
<b>01 22 23 00-1407 Trailer Mounted Bridge Stripping Buggy</b> (01 22 23 00-1399)		
01 22 23 00-1408 DAY Trailer Mounted Bridge Overhang Stripping Buggy .....	241.94	
01 22 23 00-1409 WK Trailer Mounted Bridge Overhang Stripping Buggy .....	725.84	
01 22 23 00-1410 MO Trailer Mounted Bridge Overhang Stripping Buggy .....	2,016.15	
<b>01 22 23 00-1411 Portable Trailer Mounted, CCTV Camera Systems</b> (01 22 23 00-1399) Note: Includes trailer. Excludes truck.		
01 22 23 00-1412 MO Portable Trailer Mounted, Single Camera, CCTV Camera System .....	2,800.50	
01 22 23 00-1413 MO Portable Trailer Mounted, Multi-Camera/Loud Speaker, CCTV Camera System .....	4,854.20	

**01 30 Administrative Requirements** (01)

**01 31 Project Management and Coordination** (01 30)

**01 31 33 Project Minimum Labor Costs** (01 31)

**01 31 33 00-0001 Minimum Charge** (01 31 33)

Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.

01 31 33 00-0002 EA Carpenter Minimum Charge .....	1,131.13
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0003 EA Carpet, Linoleum Minimum Charge .....	1,074.75
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0004 EA Cement Mason Minimum Charge .....	772.71
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0005 EA Drywall Finisher Minimum Charge .....	1,043.50
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0006 EA Drywall Installer Minimum Charge .....	1,095.37
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0007 EA Electrician Minimum Charge .....	1,374.43
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	
01 31 33 00-0008 EA Glazier Minimum Charge .....	976.24
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 30</b>	<b>Administrative Requirements</b>
	<b>01 31</b>	<b>Project Management and Coordination</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 31 33 00-0009 EA Insulator Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,179.50	
01 31 33 00-0010 EA Laborer Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	695.06	
01 31 33 00-0011 EA Landscape Maintenance Worker Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	820.06	
01 31 33 00-0012 EA Ornamental Metal Worker Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,042.82	
01 31 33 00-0013 EA Painter, Ordinary Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	830.13	
01 31 33 00-0014 EA Plasterer Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	976.38	
01 31 33 00-0015 EA Plumber Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,413.90	
01 31 33 00-0016 EA Roofer, Tile/Slate Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,052.09	
01 31 33 00-0017 EA Roofer, Composite Built-Up Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,080.99	
01 31 33 00-0018 EA Sheet Metal Worker Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,318.35	
01 31 33 00-0019 EA Sprinkler Installer Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	1,336.45	
01 31 33 00-0020 EA Tile Layer (Floor) Minimum Charge..... Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.	907.21	

**01 35 Special Procedures (01 30)**

**01 35 29 Health, Safety, and Emergency Response Procedures (01 35)**

See CSI section 02 90 00 00-0000 for disaster recovery task.

**01 35 29 00-0001 Emergency Response (01 35 29)**

See CSI section 01 22 20 00-0001 for labor services to load and unload shipping container, 01 22 20 00-0051 for security guards, 01 22 23 00-0000 for portable equipment usage (air compressors, generators, lighting, etc.), 01 52 13 00-0029 for container usage.

01 35 29 00-0002 MI Trucking Delivery Of 20' Shipping Container .....	2.60
01 35 29 00-0003 MI Trucking Delivery Of 40' Shipping Container .....	5.21

**01 35 33 Infection Control Procedures (01 35)**

See CSI section 02 87 19 00-0000 for Bio-Hazard And Infectious Disease Control Remediation.

**01 40 Quality Requirements (01)**

**01 41 Regulatory Requirements (01 40)**

**01 41 26 Permit Requirements (01 41)**

See CSI section 01 22 16 00-0001 for reimbursable fees.

**01 42 References (01 40)**

**01 42 13 Abbreviations and Acronyms (01 42)**

Note: For specification publishing. Review specifications for requirements.

01 42 13 00-0001 NTE Abbreviations And Acronyms.....	0.00
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Note: For specification publishing. Review specifications for requirements.

**01 42 16 Definitions (01 42)**

Note: For specification publishing. Review specifications for requirements.

01 42 16 00-0001 NTE Definitions.....	0.00
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Note: For specification publishing. Review specifications for requirements.

**01 42 19 Reference Standards (01 42)**

Note: For specification publishing. Review specifications for requirements.

01 42 19 00-0001 NTE Reference Standards.....	0.00
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Note: For specification publishing. Review specifications for requirements.

**01 42 21 Construction Suppliers or Venor List (01 42)**

Note: For specification publishing. Review specifications for requirements.

01 42 21 00-0001 NTE Construction Suppliers or Venor List.....	0.00
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Note: For specification publishing. Review specifications for requirements.





<b>General Requirements</b>	<b>01</b>	<b>10</b>
Quality Requirements	01 40	
References	01 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 45 Quality Control** (01 40)

Note: Refer to section specifications for testing included with other sections.

**01 45 23 Testing and Inspecting Services** (01 45)

Note: For application to existing materials/site conditions or additional testing over specifications stated tests. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.

**01 45 23 00-0001 Soils/Aggregate Testing** (01 45 23)

**01 45 23 00-0002 Field Soils Tests** (01 45 23 00-0001)

01 45 23 00-0003	EA	Plasticity Index Soils Test, ASTM D-4318, Field Soils Test .....	341.17
01 45 23 00-0004	EA	4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test .....	484.24
01 45 23 00-0005	EA	6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test .....	550.28
01 45 23 00-0006	EA	Resistance (R) Value Soils Test, CA 301, Field Soils Test .....	440.22
01 45 23 00-0007	EA	Soils Classification Test, ASTM D-2487, Field Soils Test .....	660.33
01 45 23 00-0008	SET	Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test .....	1,320.19
01 45 23 00-0009	EA	Moisture Content, Field Soils Test .....	49.51
01 45 23 00-0010	EA	UBC Or Swell Test, Field Soils Test .....	132.07
01 45 23 00-0011	EA	Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test .....	330.05
01 45 23 00-0012	EA	Proctor Compaction 6" Standard Mold, Field Soils Test .....	412.56
01 45 23 00-0013	EA	Density And Classification Test, Field Soils Test .....	100.53
01 45 23 00-0014	EA	Percolation Test, Field Soils Test .....	251.32
01 45 23 00-0015	EA	Infiltration Test, Field Soils Test .....	502.64

**01 45 23 00-0016 Aggregate Testing** (01 45 23 00-0001)

01 45 23 00-0017	EA	Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202 .....	110.06
01 45 23 00-0018	EA	Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202 .....	198.10
01 45 23 00-0019	EA	Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202 .....	275.14
01 45 23 00-0020	EA	Sieve Analysis, Pit Run, ASTM C136 .....	163.36
		Note: Includes wash.	
01 45 23 00-0021	EA	Specific Special Gravity, Course, ASTM C127 .....	174.86
		Note: Includes absorption test.	
01 45 23 00-0022	EA	Special Gravity, Fine, ASTM C127 .....	156.77
		Note: Includes absorption test.	
01 45 23 00-0023	EA	Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128 .....	233.15
01 45 23 00-0024	EA	Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128 .....	220.11
01 45 23 00-0025	EA	Aggregate Cleanness Value, ASTM C-128, CA 227 .....	220.11
01 45 23 00-0026	EA	Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217 .....	165.08
01 45 23 00-0027	EA	Fine Aggregate Durability Index, CA 229 .....	176.09
01 45 23 00-0028	EA	Sodium And Magnesium Soundness, ASTM C88 .....	462.07
01 45 23 00-0029	EA	Los Angeles Rattler, ASTM C-131, CA 211 .....	352.18
01 45 23 00-0030	EA	Los Angeles Rattler, ASTM C-535 .....	352.18
01 45 23 00-0031	EA	Unit Weight Of Aggregates, ASTM C29 .....	99.05
01 45 23 00-0032	EA	Organic Impurities In Sand, ASTM C40 .....	99.01
01 45 23 00-0033	EA	Crushed Particle, ASTM California Test Method .....	99.01
01 45 23 00-0034	EA	Clay Lump And Friable Particles, ASTM C142 .....	198.03

**01 45 23 00-0035 Permeability Tests** (01 45 23 00-0001)

**01 45 23 00-0036 In-Place Tests** (01 45 23 00-0035)

01 45 23 00-0037	EA	Double Ring Infiltrometer Test, ASTM D3385 .....	1,748.62
01 45 23 00-0038	EA	Unconfined Compressive Strength (Pocket Penetrometer) Test .....	82.51

**01 45 23 00-0039 Lab Tests** (01 45 23 00-0035)

01 45 23 00-0040	EA	Falling Head Rigid Wall Consolidometer Technique CAE .....	816.02
01 45 23 00-0041	EA	Falling Head Permeability Test EPA-9100 .....	816.02
01 45 23 00-0042	EA	Constant Head Permeability Test For Granular Soils, ASTM D2432 .....	466.30

**01 45 23 00-0043 Concrete/Cement/Asphalt Testing** (01 45 23)

**01 45 23 00-0044 Concrete Testing** (01 45 23 00-0043)

01 45 23 00-0045	EA	Prepare 6 x 12 Concrete Cylinder And Deliver To Lab .....	24.39
01 45 23 00-0046	EA	6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633 .....	69.94
01 45 23 00-0047	EA	Concrete Cores Compression Test, ASTM C-42 .....	143.07
01 45 23 00-0048	EA	6 x 6 x 18 Concrete Flexural Test, ASTM C-78 .....	209.10
01 45 23 00-0049	EA	Unit Weight Of Concrete Cylinder, ASTM C-567 .....	77.04
01 45 23 00-0050	EA	Concrete Mix Design Review .....	418.21
01 45 23 00-0051	EA	Trial Concrete Batch Prepared In Laboratory .....	990.50
01 45 23 00-0052	EA	Concrete Shrinkage, ASTM C-157 Modified .....	770.38
01 45 23 00-0053	EA	6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496 .....	118.86
01 45 23 00-0054	EA	Concrete Slump Test, ASTM C143 .....	55.03
01 45 23 00-0055	EA	Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231 .....	55.03

**01 45 23 00-0056 Cement Testing** (01 45 23 00-0043)

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 40</b>	<b>Quality Requirements</b>
	<b>01 45</b>	<b>Quality Control</b>



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0057	EA Cement Grab Sample (CCR Title 24) ..... Note: Includes sealing and storing 1 year.	55.03	
01 45 23 00-0058	EA 2" x 2" x 2" Cube Compression Test, All Type Materials.....	88.04	
<b>01 45 23 00-0059</b>	<b>Asphaltic Concrete Testing</b> (01 45 23 00-0043)		
01 45 23 00-0060	EA Hveem Asphaltic Concrete Stability Test, CA 366 .....	110.06	
01 45 23 00-0061	EA Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927 .....	286.14	
01 45 23 00-0062	EA Stability Tests, Premixed, ASTM D1559 .....	110.06	
01 45 23 00-0063	EA Stability Tests, Lab. Mixed, ASTM D1559 .....	286.14	
01 45 23 00-0064	EA Swell Test, CA 305 .....	132.07	
	Note: Includes compaction.		
01 45 23 00-0065	EA % Asphalt Extraction Test, ASTM D-2172 B .....	330.16	
01 45 23 00-0066	EA Maximum Theoretical Unit Weight, ASTM C2041.....	209.84	
01 45 23 00-0067	EA Unit Weight Sample Requiring Compaction, California Test Method 308.....	44.02	
01 45 23 00-0068	EA Asphalt Unit Weight On Core Test, CA 308C .....	44.02	
01 45 23 00-0069	HR Nuclear Field Density Testing, 4 Hour Minimum .....	226.71	
01 45 23 00-0070	EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664 .....	113.09	
01 45 23 00-0071	EA Penetration, ASTM D5 .....	158.98	
<b>01 45 23 00-0072</b>	<b>Masonry/Concrete Block/Tile Testing</b> (01 45 23)		
<b>01 45 23 00-0073</b>	<b>Masonry Testing</b> (01 45 23 00-0072)		
01 45 23 00-0074	EA 2" x 4" Cylinder Mortar Compression Test.....	72.64	
01 45 23 00-0075	EA 4" x 4" x 8" Grout Prisms Compression Test.....	72.64	
01 45 23 00-0076	EA Masonry Cores Compression Test .....	143.07	
01 45 23 00-0077	EA Composite Grouted Prism Compression Test.....	275.14	
<b>01 45 23 00-0078</b>	<b>Concrete Block Testing (ASTM C140 Or CMA Per Specimen)</b> (01 45 23 00-0072)		
01 45 23 00-0079	EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140 .....	176.09	
01 45 23 00-0080	EA Absorption Test, Moisture Content And Unit Weight.....	121.06	
01 45 23 00-0081	EA First Unit, Moisture Condition By Relative Humidity, ASTM C427 .....	462.07	
01 45 23 00-0082	EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit .....	231.03	
<b>01 45 23 00-0083</b>	<b>Metals Testing</b> (01 45 23)		
<b>01 45 23 00-0084</b>	<b>Tank Line Tightness Testing</b> (01 45 23 00-0083)		
01 45 23 00-0085	EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing .....	581.98	
01 45 23 00-0086	EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	646.24	
01 45 23 00-0087	EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	710.26	
<b>01 45 23 00-0088</b>	<b>Other Testing</b> (01 45 23)		
<b>01 45 23 00-0089</b>	<b>Special Testing</b> (01 45 23 00-0088)		
01 45 23 00-0090	EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	165.02	
01 45 23 00-0091	EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617 .....	990.15	
01 45 23 00-0092	EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....	51.43	
01 45 23 00-0093	EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Caulk, Analysis Per Sample.....	213.35	
01 45 23 00-0094	EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Soil, Analysis Per Sample .....	213.35	
01 45 23 00-0095	EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) Using Wipe Sampling, Analysis Per Sample.....	213.35	
01 45 23 00-0096	EA Testing For The Presence Of Polychlorinated Biphenyl (PCB) In Air, Analysis Per Sample.....	1,173.42	
01 45 23 00-0097	EA Testing And Certification Of Backflow Valves.....	687.04	
<b>01 45 23 00-0098</b>	<b>Non-destructive Field Testing Services</b> (01 45 23 00-0088)		
<b>01 45 23 00-0099</b>	<b>Infrared Thermography</b> (01 45 23 00-0098) Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
<b>01 45 23 00-0100</b>	<b>Roof Investigation And Moisture Survey Using Infrared Thermography</b> (01 45 23 00-0099) Note: For on the roof surveys.		
01 45 23 00-0101	EA Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge .....	3,840.30	
01 45 23 00-0102	CSF Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography .....	6.40	
	For CADD Drawings, Add	1.28	
01 45 23 00-0103	CSF >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	4.27	
	For CADD Drawings, Add	0.85	
01 45 23 00-0104	CSF >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	3.20	
	For CADD Drawings, Add	0.64	
	For Elevated Infrared Thermography Roof Investigation, Add	0.80	
	For Aerial Infrared Thermography Roof Investigation, Add	0.80	
01 45 23 00-0105	CSF >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography .....	2.13	
	For CADD Drawings, Add	0.43	
	For Elevated Infrared Thermography Roof Investigation, Add	0.53	
	For Aerial Infrared Thermography Roof Investigation, Add	0.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 45 23 00-0106</b> <b>Building Moisture Investigation Using Infrared Thermography</b> <small>(01 45 23 00-0099)</small>		
<i>Note: For finding moisture in walls and windows.</i>		
01 45 23 00-0107     EA     Building Moisture Investigation Using Infrared Thermography, Mobilization Charge .....	2,026.82	
01 45 23 00-0108     CSF     Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography .....	6.40	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	3.20	
01 45 23 00-0109     CSF     >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography .....	4.27	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	2.14	
01 45 23 00-0110     CSF     >5,000 SF, Building Moisture Investigation Using Infrared Thermography .....	2.13	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	1.07	
<b>01 45 23 00-0111</b> <b>General Building Investigation Using Infrared Thermography</b> <small>(01 45 23 00-0099)</small>		
<i>Note: For finding missing or misplaced insulation, air leakage and delamination.</i>		
01 45 23 00-0112     EA     General Building Investigation Using Infrared Thermography, Mobilization Charge .....	4,160.32	
01 45 23 00-0113     CSF     Up To 1,000 SF, General Building Investigation Using Infrared Thermography .....	6.40	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	3.20	
01 45 23 00-0114     CSF     >1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography .....	4.27	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	2.14	
01 45 23 00-0115     CSF     >5,000 SF, General Building Investigation Using Infrared Thermography .....	2.13	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	1.07	
<b>01 45 23 00-0116</b> <b>Electrical /Mechanical Equipment Scanning Using Infrared Thermography</b> <small>(01 45 23 00-0099)</small>		
<i>Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.</i>		
01 45 23 00-0117     EA     Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge .....	2,026.82	
01 45 23 00-0118     HR     Electrical /Mechanical Equipment Scanning Using Infrared Thermography .....	273.80	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	41.00	
<b>01 45 23 00-0119</b> <b>Concrete Block Wall Investigation Using Infrared Thermography</b> <small>(01 45 23 00-0099)</small>		
<i>Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.</i>		
01 45 23 00-0120     EA     Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge .....	2,026.82	
01 45 23 00-0121     CSF     Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography .....	6.40	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	0.96	
01 45 23 00-0122     CSF     >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography .....	4.27	
<i>For Digital Or Analog Recording Of All Items, Add</i>		
	0.64	
<b>01 45 23 00-0123</b> <b>Other Non-destructive Field Testing Services</b> <small>(01 45 23 00-0098)</small>		
01 45 23 00-0124     HR     ASNT Certified Level I NDT Consultant .....	98.10	
01 45 23 00-0125     HR     ASNT Certified Level II NDT Consultant .....	122.40	
01 45 23 00-0126     HR     ASNT Certified Level III NDT Consultant .....	140.55	
01 45 23 00-0127     HR     Certified Industrial Radiography Radiation Safety Personnel .....	146.90	
<b>01 45 23 00-0128</b> <b>Testing Professional Services</b> <small>(01 45 23 00-0088)</small>		
01 45 23 00-0129     HR     Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection .....	204.70	
01 45 23 00-0130     HR     Laboratory Technician .....	198.10	
01 45 23 00-0131     HR     Portable Digital Reinforcement Scanner .....	286.14	
01 45 23 00-0132     HR     Subsurface Detection Radar System .....	484.24	
01 45 23 00-0133     HR     Pavement Rehabilitation Analysis Using Deflectors .....	550.28	
<b>01 45 29</b> <b>Testing Laboratory Services</b> <small>(01 45)</small>		
<i>Note: For application to existing materials/site conditions or additional testing over specifications stated tests.</i>		
<b>01 45 29 00-0001</b> <b>Soil Borings Laboratory Tests</b> <small>(01 45 29)</small>		
<i>See CSI section 02 32 13 00-0000 for soil borings.</i>		
01 45 29 00-0002     EA     Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test .....	151.55	
01 45 29 00-0003     EA     Shrinkage Limit, Soil Borings Laboratory Test .....	48.35	
01 45 29 00-0004     EA     Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test .....	116.58	
01 45 29 00-0005     EA     Consolidation, Soil Borings Laboratory Test .....	816.02	
01 45 29 00-0006     EA     Swell Test, Soil Borings Laboratory Test .....	127.94	
01 45 29 00-0007     EA     In Place Density, Soil Borings Laboratory Test .....	34.97	
01 45 29 00-0008     EA     Moisture Content, ASTM D2216, Soil Borings Laboratory Test .....	21.72	
01 45 29 00-0009     EA     Hydrometer Analysis, Soil Borings Laboratory Test .....	280.50	
01 45 29 00-0010     EA     Specific Gravity, ASTM D854, Soil Borings Laboratory Test .....	97.79	
01 45 29 00-0011     EA     Partial Sieve Analysis, Soil Borings Laboratory Test .....	19.34	
01 45 29 00-0012     EA     Laboratory Permeability, Soil Borings Laboratory Test .....	966.98	
01 45 29 00-0013     EA     Sieve Analysis, ASTM D422, Soil Borings Laboratory Test .....	195.59	
01 45 29 00-0014     EA     Sulfate Soundness, Soil Borings Laboratory Test .....	241.74	
01 45 29 00-0015     EA     Los Angeles Abrasion, Soil Borings Laboratory Test .....	447.49	
01 45 29 00-0016     EA     Soil Bearing Ratio, ASTM D1883 .....	495.25	
01 45 29 00-0017     EA     Compaction Test Subgrade, Soil Borings Laboratory Test .....	145.05	
01 45 29 00-0018     EA     Compaction Test Base Course, Soil Borings Laboratory Test .....	161.16	
01 45 29 00-0019     EA     In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test .....	345.89	
01 45 29 00-0020     EA     Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test .....	74.13	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities and Controls</b>
	<b>01 45</b>	<b>Quality Control</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**01 50 Temporary Facilities and Controls** <sup>(01)</sup>

Note: Tasks in this section shall be used as directed by owner.

**01 51 Temporary Utilities** <sup>(01 50)</sup>

**01 51 13 Temporary Electricity** <sup>(01 51)</sup>

**01 51 13 00-0001 Temporary Service Switch And/or Building Feeder Switch** <sup>(01 51 13)</sup>

Note: Includes all connections and removal after use.

01 51 13 00-0002	EA	Temporary 100 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses .....	1,749.61
01 51 13 00-0003	EA	Temporary 200 Amperes, NEMA 1 Or 3R, Disconnect Switch With Fuses .....	2,739.40
01 51 13 00-0004	EA	Temporary 400 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses .....	4,936.32
01 51 13 00-0005	EA	Temporary 600 Amperes, 240 Volt, NEMA 3R, Disconnect Switch With Fuses .....	7,852.29

**01 51 13 00-0006 Temporary 120/208 Volt Main Lug Panelboard Complete With Branch**

**Fuses** <sup>(01 51 13)</sup>

Note: Includes mounting on wall and removal after use.

01 51 13 00-0007	EA	Temporary 100 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	1,712.22
01 51 13 00-0008	EA	Temporary 200 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	2,488.30
01 51 13 00-0009	EA	Temporary 400 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	3,866.90
01 51 13 00-0010	EA	Temporary 600 Amperes, Panelboard Complete With GFCI Circuit Breakers.....	5,647.07

**01 51 13 00-0011 Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards** <sup>(01 51 13)</sup>

Note: Includes all connections, fittings, supports and removal after use.

01 51 13 00-0012	LF	Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards .....	11.75
01 51 13 00-0013	LF	Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards .....	12.87

**01 51 26 Temporary Lighting** <sup>(01 51)</sup>

**01 51 26 00-0001 Temporary Lighting Devices** <sup>(01 51 26)</sup>

Note: Includes removal after use.

01 51 26 00-0002	EA	Temporary Exit Light.....	334.61
01 51 26 00-0003	EA	Temporary 10 Light String With Cages.....	126.71
01 51 26 00-0004	EA	Temporary High Bay Light .....	485.07

**01 52 Construction Facilities** <sup>(01 50)</sup>

Note: Tasks in this section shall be used as directed by owner for owner's use.

**01 52 13 Field Offices and Sheds** <sup>(01 52)</sup>

**01 52 13 00-0001 Field Offices and Office Trailers** <sup>(01 52 13)</sup>

Note: Excludes furniture, utility connections and service. Minimum 6 months rental. See CSI section 01 52 13 00-0015 for furniture, skirting, and steps.

01 52 13 00-0002	MO	8' x 24' Mobile Office, With Toilet.....	184.67
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	<i>1,242.34</i>
		<i>For Each Set-Up (Block And Level), Add</i>	<i>430.60</i>
		<i>For Each Anchoring Into Dirt, Add</i>	<i>131.31</i>
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	<i>196.96</i>
		<i>For Office Trailer Without Toilet, Deduct</i>	<i>-36.93</i>
01 52 13 00-0003	MO	8' x 32' Mobile Office, With Toilet.....	209.29
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	<i>1,242.34</i>
		<i>For Each Set-Up (Block And Level), Add</i>	<i>430.60</i>
		<i>For Each Anchoring Into Dirt, Add</i>	<i>131.31</i>
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	<i>196.96</i>
		<i>For Office Trailer Without Toilet, Deduct</i>	<i>-41.86</i>
01 52 13 00-0004	MO	10' x 36' Mobile Office, With Toilet.....	283.16
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	<i>1,863.51</i>
		<i>For Each Set-Up (Block And Level), Add</i>	<i>702.55</i>
		<i>For Each Anchoring Into Dirt, Add</i>	<i>131.31</i>
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	<i>196.96</i>
		<i>For Office Trailer Without Toilet, Deduct</i>	<i>-56.63</i>
01 52 13 00-0005	MO	10' x 40' Mobile Office, With Toilet.....	301.63
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	<i>1,863.51</i>
		<i>For Each Set-Up (Block And Level), Add</i>	<i>702.55</i>
		<i>For Each Anchoring Into Dirt, Add</i>	<i>131.31</i>
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	<i>196.96</i>
		<i>For Office Trailer Without Toilet, Deduct</i>	<i>-60.33</i>
01 52 13 00-0006	MO	10' x 44' Mobile Office, With Toilet.....	332.40
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	<i>1,863.51</i>
		<i>For Each Set-Up (Block And Level), Add</i>	<i>702.55</i>
		<i>For Each Anchoring Into Dirt, Add</i>	<i>131.31</i>
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	<i>196.96</i>
01 52 13 00-0007	MO	10' x 50' Mobile Office, With Toilet.....	350.87
		<i>For Each Delivery And Removal, Two Round Trips, Add</i>	<i>1,863.51</i>
		<i>For Each Set-Up (Block And Level), Add</i>	<i>702.55</i>
		<i>For Each Anchoring Into Dirt, Add</i>	<i>131.31</i>
		<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	<i>196.96</i>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0008 MO 12' x 32' Mobile Office, With Toilet.....	271.46	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
For Each Delivery And Removal, Two Round Trips, Add	723.04	
For Each Set-Up (Block And Level), Add	566.58	
01 52 13 00-0009 MO 12' x 44' Mobile Office, With Toilet.....	362.94	
For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
For Each Set-Up (Block And Level), Add	702.55	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0010 MO 12' x 50' Mobile Office, With Toilet.....	412.43	
For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
For Each Set-Up (Block And Level), Add	702.55	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0011 MO 12' x 60' Mobile Office, With Toilet.....	449.36	
For Each Delivery And Removal, Two Round Trips, Add	1,863.51	
For Each Set-Up (Block And Level), Add	702.55	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0012 MO 24' x 60' Modular Office, With Toilet.....	984.89	
For Each Delivery And Removal, Two Round Trips, Add	3,727.01	
For Each Set-Up (Block And Level), Add	1,133.15	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0013 MO 24' x 72' Modular Office, With Toilet.....	1,181.87	
For Each Delivery And Removal, Two Round Trips, Add	3,727.01	
For Each Set-Up (Block And Level), Add	1,133.15	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
01 52 13 00-0014 MO 30' x 30' Modular Office, With Toilet.....	561.70	
For Each Delivery And Removal, Two Round Trips, Add	3,727.01	
For Each Set-Up (Block And Level), Add	1,133.15	
For Each Anchoring Into Dirt, Add	131.31	
For Each Anchoring Into Asphalt Or Concrete, Add	196.96	
<b>01 52 13 00-0015 Accessories For Field Office Trailers (01 52 13)</b>		
Note: Costs includes installation or placement in trailer.		
01 52 13 00-0016 MO Desk For Field Office Trailer.....	56.78	
01 52 13 00-0017 MO Rolling Desk Chair For Field Office Trailer.....	35.49	
01 52 13 00-0018 MO File Cabinet For Field Office Trailer.....	42.59	
01 52 13 00-0019 MO Table For Field Office Trailer.....	28.39	
01 52 13 00-0020 MO Folding Chair For Field Office Trailer.....	13.45	
01 52 13 00-0021 EA Phone Hook-Up For Field Office Trailer.....	156.15	
01 52 13 00-0022 MO Local Phone Service Per Phone Line For Field Office Trailer.....	99.37	
01 52 13 00-0023 MO Security System With Monitoring For Field Office Trailer.....	178.91	
01 52 13 00-0024 LF Perimeter Trailer Vinyl Skirting For Field Office Trailer.....	15.76	
01 52 13 00-0025 LF Insulated Perimeter Trailer Vinyl Skirting For Field Office Trailer.....	37.33	
01 52 13 00-0026 MO Steps For Field Office Trailer.....	45.96	
01 52 13 00-0027 MO Fax Machine For Field Office Trailer.....	70.98	
01 52 13 00-0028 MO Copier For Field Office Trailer.....	113.56	
<b>01 52 13 00-0029 Storage Containers (01 52 13)</b>		
01 52 13 00-0030 MO 8' x 8' x 10' Storage Container.....	252.35	
For Each Delivery And Removal, Two Round Trips, Add	185.78	
For >12 Months, Deduct	-75.71	
01 52 13 00-0031 MO 8' x 8' x 20' Storage Container.....	263.82	
For Each Delivery And Removal, Two Round Trips, Add	204.36	
For >12 Months, Deduct	-79.15	
01 52 13 00-0032 MO 8' x 8' x 40' Storage Container.....	312.00	
For Each Delivery And Removal, Two Round Trips, Add	411.58	
For >12 Months, Deduct	-93.60	
<b>01 52 19 Sanitary Facilities (01 52)</b>		
<b>01 52 19 00-0001 Portable Toilets (01 52 19)</b>		
Note: Includes set-up, servicing once per week (unless task states otherwise) and removal.		
01 52 19 00-0002 WK Portable Chemical Toilet.....	67.83	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0003 MO Portable Chemical Toilet.....	203.49	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0004 WK Americans With Disabilities Act Compliant Portable Chemical Toilet.....	80.90	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0005 MO Americans With Disabilities Act Compliant Portable Chemical Toilet.....	237.41	
For Each Additional Servicing Per Unit Per Week, Add	25.00	
For Each Delivery And Set-up, Add	52.00	
01 52 19 00-0006 WK Two Station Portable Handwash.....	54.40	
For Each Delivery And Set-up, Add	52.00	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities and Controls</b>
	<b>01 52</b>	<b>Construction Facilities</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 19 00-0007 MO Two Station Portable Handwash..... <i>For Each Delivery And Set-up, Add</i>	165.03 52.00	
01 52 19 00-0008 MO 6 Station, Portable Toilets, Multi Trailer ..... Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink). Excludes servicing. <i>For Each Delivery, Set-up And Removal, Two Round Trips, Add</i>	4,582.08 1,242.34	
01 52 19 00-0009 WK Service 6 Station Trailer Restrooms, 3 Times Per Week..... <i>For One Additional Service Per Week, Add</i> Note: For one less service per week, UOM to be negative one (-1)	2,029.66 676.56	

**01 53 Temporary Construction** (01 50)

**01 53 16 Temporary Decking** (01 53)

**01 53 16 00-0001 Temporary Walkways And Railings** (01 53 16)  
Note: Includes removal after use.

01 53 16 00-0002 SF Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers .....	8.11	
01 53 16 00-0003 LF Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail .....	36.41	
01 53 16 00-0004 LF Temporary Wood Guardrail Base, 12" x 12" Timber Beam.....	15.15	
01 53 16 00-0005 RSR Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	27.42	

**01 53 23 Temporary Ramps** (01 53)

**01 53 23 00-0001 Temporary Plywood For Wheel Barrow Access** (01 53 23)  
Note: Includes removal after use.

01 53 23 00-0002 SF Temporary Plywood For Wheel Barrow Access.....	1.68	0.55
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**01 54 Construction Aids** (01 50)

**01 54 09 Personnel Protection Equipment** (01 54)

**01 54 09 00-0001 Personnel Protection Equipment** (01 54 09)  
Note: Personnel Protection Equipment (PPE) for workers safety is considered as part of the Contractor's and Workers responsibility. Includes, but are not limited to; protective work gloves, hearing protection, protective clothing, reflective vests, safety glasses or face shields, dust masks, hard hats, appropriate foot protection (slip resistant, puncture-resistant soles, safety-toed), safety harnesses with lifeline, etc. Review JOC Note and specifications for requirements.

01 54 09 00-0002 NTE Personnel Protection Equipment .....	0.00	
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Note: For specification publishing. Review specifications for requirements.

**01 54 23 Temporary Scaffolding and Platforms** (01 54)

**01 54 23 00-0001 Scaffolding** (01 54 23)  
Note: Additional scaffolding rental for work above the normal working height.

**01 54 23 00-0002 Scaffolding Rental - Rental Only** (01 54 23 00-0001)  
Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.

01 54 23 00-0003 CCF Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month).....	29.48	
<i>For Up To 25, Add</i>	11.79	
<i>For &gt;25 To 50, Add</i>	7.37	
<i>For &gt;50 To 150, Add</i>	2.95	
01 54 23 00-0004 CCF Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	33.15	
<i>For Up To 25, Add</i>	13.26	
<i>For &gt;25 To 50, Add</i>	8.29	
<i>For &gt;50 To 150, Add</i>	3.32	
01 54 23 00-0005 CCF Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	44.22	
<i>For Up To 25, Add</i>	17.69	
<i>For &gt;25 To 50, Add</i>	11.06	
<i>For &gt;50 To 150, Add</i>	4.42	

**01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only** (01 54 23 00-0001)  
Note: Includes both initial erection and final dismantling. Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.

01 54 23 00-0007 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	48.51	
01 54 23 00-0008 CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	63.61	
01 54 23 00-0009 CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	84.89	
01 54 23 00-0010 CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	93.38	
01 54 23 00-0011 CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	107.53	
01 54 23 00-0012 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories .....	67.92	

**01 54 23 00-0013 Heavy Duty Masonry Scaffolding Rental - Rental Only** (01 54 23 00-0001)  
Note: Monthly rental of actual scaffolding volume rented. For projects over 2 stories. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0019 for erection.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0014 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	67.90	
01 54 23 00-0015 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	124.49	
01 54 23 00-0016 LF Aluminum Joists (LF / Month).....	11.04	
01 54 23 00-0017 LF Aluminum Stringers (LF / Month).....	15.83	
01 54 23 00-0018 EA Screw Jack With U-Plate For Stringers (EA / Month).....	19.95	
<b>01 54 23 00-0019 Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only</b> <small>(01 54 23 00-0001)</small>		
<small>Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.</small>		
01 54 23 00-0020 CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	90.55	
01 54 23 00-0021 CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	113.19	
01 54 23 00-0022 CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	135.83	
01 54 23 00-0023 CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	147.15	
01 54 23 00-0024 CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	164.12	
<b>01 54 23 00-0025 Scaffolding Accessories</b> <small>(01 54 23 00-0001)</small>		
<small>See CSI section 01 54 23 00-0019 for erection.</small>		
01 54 23 00-0026 CSF Netting for Exterior Building Scaffolding.....	41.41	
<small>Note: Includes removal after use.</small>		
<b>01 54 23 00-0027 Rolling Scaffolding</b> <small>(01 54 23)</small>		
<small>Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.</small>		
01 54 23 00-0028 DAY >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	12.58	
01 54 23 00-0029 WK >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	50.41	
01 54 23 00-0030 MO >14' To 20', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	201.63	
01 54 23 00-0031 DAY >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	21.06	
01 54 23 00-0032 WK >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	84.35	
01 54 23 00-0033 MO >20' To 40', Rolling Scaffolding, Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section).....	337.44	
01 54 23 00-0034 EA >14' To 20', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	105.39	
01 54 23 00-0035 EA >20' To 40', Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold.....	131.73	
<b>01 54 23 00-0036 Shoring Posts</b> <small>(01 54 23)</small>		
01 54 23 00-0037 DAY 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	2.07	
01 54 23 00-0038 WK 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	8.30	
01 54 23 00-0039 MO 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post.....	24.89	
01 54 23 00-0040 EA Initial Erection And Final Dismantling For Each Shoring Post.....	8.44	
<small>For &gt;20 To 50, Deduct</small>		-1.27
<small>For &gt;50 To 100, Deduct</small>		-2.95
<small>For &gt;100, Deduct</small>		-4.64
<b>01 54 23 00-0041 Temporary Lumber, Single Use</b> <small>(01 54 23)</small>		
<small>Note: Includes removal after use.</small>		
01 54 23 00-0042 SF 5/16" CD Grade Plywood, Temporary Lumber.....	2.64	
01 54 23 00-0043 SF 1/2" CD Grade Plywood, Temporary Lumber.....	2.98	
01 54 23 00-0044 SF 5/8" CD Grade Plywood, Temporary Lumber.....	3.28	
01 54 23 00-0045 SF 3/4" CD Grade Plywood, Temporary Lumber.....	3.58	
01 54 23 00-0046 SF 1" CD Grade Plywood, Temporary Lumber.....	5.19	
01 54 23 00-0047 LF 2" x 4" Temporary Lumber.....	3.47	
01 54 23 00-0048 LF 2" x 6" Temporary Lumber.....	4.40	
01 54 23 00-0049 LF 2" x 8" Temporary Lumber.....	5.33	
01 54 23 00-0050 LF 2" x 10" Temporary Lumber.....	6.27	
01 54 23 00-0051 LF 2" x 12" Temporary Lumber.....	7.20	
01 54 23 00-0052 LF 3" x 8" Temporary Lumber.....	7.20	
01 54 23 00-0053 LF 3" x 10" Temporary Lumber.....	8.60	
01 54 23 00-0054 LF 3" x 12" Temporary Lumber.....	10.01	
01 54 23 00-0055 LF 4" x 4" Temporary Lumber.....	4.70	
01 54 23 00-0056 LF 4" x 6" Temporary Lumber.....	6.75	
01 54 23 00-0057 LF 6" x 6" Temporary Lumber.....	8.80	
01 54 23 00-0058 LF 6" x 8" Temporary Lumber.....	11.43	
01 54 23 00-0059 LF 12" x 12" Temporary Lumber.....	28.03	
<b>01 54 23 00-0060 Temporary Precast Concrete Blocks</b> <small>(01 54 23)</small>		
<small>Note: Includes removal after use.</small>		
01 54 23 00-0061 EA 2' x 2' x 2' Temporary Precast Concrete (Ecology) Block.....	130.73	
<small>Note: Includes removal after use.</small>		
01 54 23 00-0062 EA 2' x 2' x 4' Temporary Precast Concrete (Ecology) Block.....	163.41	
<small>Note: Includes removal after use.</small>		
01 54 23 00-0063 EA 2' x 2' x 8' Temporary Precast Concrete (Ecology) Block.....	219.72	
<small>Note: Includes removal after use.</small>		

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities and Controls</b>
	<b>01 54</b>	<b>Construction Aids</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 54 26 Temporary Swing Staging (01 54)**

Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.

<b>01 54 26 00-0001</b>	<b>MO</b>	<b>Swing Stage (01 54 26)</b> Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002	MO	7' Swing Stage, Electric Operated .....	2,984.71	
01 54 26 00-0003	MO	10' Swing Stage, Electric Operated .....	3,133.94	
01 54 26 00-0004	MO	14' Swing Stage, Electric Operated .....	3,283.18	
01 54 26 00-0005	MO	20' Swing Stage, Electric Operated .....	3,432.41	
01 54 26 00-0006	MO	24' Swing Stage, Electric Operated .....	3,581.65	
01 54 26 00-0007	MO	30' Swing Stage, Electric Operated .....	3,730.88	
01 54 26 00-0008	MO	42' Swing Stage, Electric Operated .....	3,880.12	
01 54 26 00-0009	MO	12' Swing Stage, Manually Operated.....	860.69	
01 54 26 00-0010	MO	24' Swing Stage, Manually Operated.....	1,075.86	
01 54 26 00-0011	EA	Swing Stage Platform From Hooks, Erection And Dismantling..... Note: Includes both initial erection and final dismantling of platform. Excludes anchors or temporary roof mounted outrigger system.	4,492.85	
01 54 26 00-0012	EA	Swing Stage Platform And Temporary Roof Mounted Outrigger System Erection And Dismantling..... Note: Includes both initial erection and final dismantling of temporary roof mounted outrigger system.	6,243.60	
01 54 26 00-0013	EA	Move Swing Stage Platform From Hooks To Different Location At Same Roof.....	2,362.44	
01 54 26 00-0014	EA	Move Swing Stage Platform and Temporary Roof Mounted Outrigger System To Different Location At Same Roof.....	3,290.54	

**01 55 Vehicular Access and Parking (01 50)**

**01 55 23 Temporary Roads (01 55)**

<b>01 55 23 00-0001</b>	<b>SF</b>	<b>Temporary Stabilized Construction Entrance (01 55 23)</b> Note: As per Caltrans detail.		
01 55 23 00-0002	SF	3" To 4" Rock Temporary Stabilized Construction Entrance Assembly..... Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.	4.17	
01 55 23 00-0003	SF	>4" To 6" Rock Temporary Stabilized Construction Entrance Assembly..... Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.	5.65	

**01 55 23 00-0004 Rumble Trench Plate (01 55 23)**

01 55 23 00-0005	MO	8' x 10' Steel Rumble Trench Plate Rental.....	398.66	
01 55 23 00-0006	EA	Placement And Removal Of Rumble Plate..... Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	94.00	
01 55 23 00-0007	EA	Relocate And Adjust Location Of Rumble Plate..... Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.	23.50	

**01 55 23 00-0008 Temporary Road Ramps (Godwin) (01 55 23)**

		Note: Excludes asphalt and gravel.		
01 55 23 00-0009	EA	4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	4,871.98	208.67
01 55 23 00-0010	EA	6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	6,630.09	313.01
01 55 23 00-0011	EA	8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	9,162.92	417.34
01 55 23 00-0012	EA	12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	19,055.60	521.67
01 55 23 00-0013	EA	24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	27,979.86	626.01

**01 55 26 Traffic Control (01 55)**

**01 55 26 00-0001 Temporary Removable Preformed Traffic Black Line Mask (01 55 26)**

		Note: Includes installation and removal after use.		
01 55 26 00-0002	LF	6" Removable Traffic Black Line Mask .....	5.11	
01 55 26 00-0003	LF	8" Removable Traffic Black Line Mask .....	6.19	

**01 55 26 00-0004 Temporary Preformed Traffic Line Tape (01 55 26)**

		Note: Includes installation and removal after use.		
01 55 26 00-0005	LF	4" Reflective Removable Traffic Line Tape.....	5.17	
01 55 26 00-0006	LF	6" Reflective Removable Traffic Line Tape.....	7.07	
01 55 26 00-0007	LF	8" Reflective Removable Traffic Line Tape.....	8.88	

**01 55 26 00-0008 Temporary Painted Traffic Lines (01 55 26)**

		Note: Includes installation and removal after use.		
01 55 26 00-0009	LF	4" Temporary Painted Traffic Lines.....	2.35	
		<i>For Not Removed, Deduct</i>	-1.59	
01 55 26 00-0010	LF	6" Temporary Painted Traffic Lines.....	3.09	
		<i>For Not Removed, Deduct</i>	-2.14	
01 55 26 00-0011	LF	8" Temporary Painted Traffic Lines.....	3.86	
		<i>For Not Removed, Deduct</i>	-2.71	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0012 EA 2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.33	
01 55 26 00-0013 EA 2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	3.36	
<b>01 55 26 00-0014 Temporary Pedestrian Traffic Control</b> <small>(01 55 26)</small>		
01 55 26 00-0015 CLF 1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange .....	9.72	
01 55 26 00-0016 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange .....	12.64	
01 55 26 00-0017 CLF 3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow .....	7.72	
01 55 26 00-0018 CLF 2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow .....	9.43	
01 55 26 00-0019 CLF 3", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent .....	10.21	
01 55 26 00-0020 CLF 6", 4 Mil Polyethylene Printed Barricade Tape, Non-Fluorescent .....	13.90	
01 55 26 00-0021 CLF 1" Exterior Vinyl Tape (Warning Tape) .....	11.44	
01 55 26 00-0022 CLF 2" Exterior Vinyl Tape (Warning Tape) .....	15.91	
01 55 26 00-0023 CLF 3" Exterior Vinyl Tape (Warning Tape) .....	19.83	
01 55 26 00-0024 CLF 4" Exterior Vinyl Tape (Warning Tape) .....	23.19	
<b>01 55 26 00-0025 Linear Delineation System, Temporary Or Permanent</b> <small>(01 55 26)</small>		
Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026 LF 4" Linear Delineation System.....	11.18	
01 55 26 00-0027 LF 6" Linear Delineation System.....	15.17	
<b>01 55 26 00-0028 Temporary Traffic Protection</b> <small>(01 55 26)</small>		
<b>01 55 26 00-0029 Temporary Portable Traffic Control Device Usage</b> <small>(01 55 26 00-0028)</small>		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0030 DAY 28" Cone With Reflective Collar.....	0.86	
01 55 26 00-0031 WK 28" Cone With Reflective Collar.....	2.57	
01 55 26 00-0032 MO 28" Cone With Reflective Collar.....	7.70	
01 55 26 00-0033 DAY Vertical Panel.....	2.59	
01 55 26 00-0034 WK Vertical Panel.....	7.76	
01 55 26 00-0035 MO Vertical Panel.....	23.27	
01 55 26 00-0036 DAY Channelizer Drum.....	2.81	
01 55 26 00-0037 WK Channelizer Drum.....	8.42	
01 55 26 00-0038 MO Channelizer Drum.....	25.26	
01 55 26 00-0039 DAY Stackable Channelizer Panel.....	1.33	
01 55 26 00-0040 WK Stackable Channelizer Panel.....	3.98	
01 55 26 00-0041 MO Stackable Channelizer Panel.....	11.95	
01 55 26 00-0042 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	1.84	
01 55 26 00-0043 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	5.51	
01 55 26 00-0044 MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	16.54	
01 55 26 00-0045 DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side .....	4.07	
01 55 26 00-0046 WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side .....	12.22	
01 55 26 00-0047 MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side .....	36.66	
01 55 26 00-0048 DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails .....	4.64	
01 55 26 00-0049 WK Type III Barricade, Up To 5' Wide With Three Reflective Rails .....	13.93	
01 55 26 00-0050 MO Type III Barricade, Up To 5' Wide With Three Reflective Rails .....	41.79	
01 55 26 00-0051 DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	8.49	
01 55 26 00-0052 WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	25.48	
01 55 26 00-0053 MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	76.43	
01 55 26 00-0054 DAY Up To 10' Wide A Frame Barricade .....	4.66	
01 55 26 00-0055 WK Up To 10' Wide A Frame Barricade .....	13.97	
01 55 26 00-0056 MO Up To 10' Wide A Frame Barricade .....	41.92	
01 55 26 00-0057 DAY Type A Or C Flasher.....	0.95	
01 55 26 00-0058 WK Type A Or C Flasher.....	2.85	
01 55 26 00-0059 MO Type A Or C Flasher.....	8.54	
01 55 26 00-0060 DAY Type B Flasher (High Intensity) .....	5.15	
01 55 26 00-0061 WK Type B Flasher (High Intensity) .....	15.45	
01 55 26 00-0062 MO Type B Flasher (High Intensity) .....	46.35	
<b>01 55 26 00-0063 Temporary Traffic Barriers Usage</b> <small>(01 55 26 00-0028)</small>		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0064 DAY 6' Long Portable Parking Curbs .....	2.22	
01 55 26 00-0065 WK 6' Long Portable Parking Curbs .....	6.65	
01 55 26 00-0066 MO 6' Long Portable Parking Curbs .....	19.96	
01 55 26 00-0067 DAY 6' Long Portable Speed Bumps .....	6.56	
01 55 26 00-0068 WK 6' Long Portable Speed Bumps .....	19.69	
01 55 26 00-0069 MO 6' Long Portable Speed Bumps .....	59.08	
01 55 26 00-0070 DAY Up To 12.5' Concrete Traffic Barrier .....	15.77	
01 55 26 00-0071 WK Up To 12.5' Concrete Traffic Barrier .....	47.31	
01 55 26 00-0072 MO Up To 12.5' Concrete Traffic Barrier .....	141.93	
01 55 26 00-0073 DAY >12.5' To 20' Concrete Traffic Barrier .....	31.54	
01 55 26 00-0074 WK >12.5' To 20' Concrete Traffic Barrier .....	94.62	
01 55 26 00-0075 MO >12.5' To 20' Concrete Traffic Barrier .....	283.86	
01 55 26 00-0076 DAY 6' x 32" Tall Plastic Water Barrier .....	18.83	
01 55 26 00-0077 WK 6' x 32" Tall Plastic Water Barrier .....	56.50	
01 55 26 00-0078 MO 6' x 32" Tall Plastic Water Barrier .....	169.49	

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities and Controls</b>
<b>01 55</b>	<b>Vehicular Access and Parking</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0079 DAY 6' x 46" Tall Plastic Water Barrier .....	26.89	
01 55 26 00-0080 WK 6' x 46" Tall Plastic Water Barrier .....	80.67	
01 55 26 00-0081 MO 6' x 46" Tall Plastic Water Barrier .....	242.01	
01 55 26 00-0082 DAY Sand Filled Crash Attenuator Barrels.....	10.53	
01 55 26 00-0083 WK Sand Filled Crash Attenuator Barrels.....	31.58	
01 55 26 00-0084 MO Sand Filled Crash Attenuator Barrels.....	94.73	
<b>01 55 26 00-0085 Temporary Portable Signs And Message Displays Usage</b> (01 55 26 00-0028)		
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0086 DAY Mesh Or Vinyl Roll-up Sign With Stand .....	8.26	
01 55 26 00-0087 WK Mesh Or Vinyl Roll-up Sign With Stand .....	24.79	
01 55 26 00-0088 MO Mesh Or Vinyl Roll-up Sign With Stand .....	74.37	
01 55 26 00-0089 DAY Aluminum Sign And Post .....	4.12	
01 55 26 00-0090 WK Aluminum Sign And Post .....	12.35	
01 55 26 00-0091 MO Aluminum Sign And Post .....	37.06	
01 55 26 00-0092 DAY Aluminum Sign And A Frame Stand .....	6.25	
01 55 26 00-0093 WK Aluminum Sign And A Frame Stand .....	18.74	
01 55 26 00-0094 MO Aluminum Sign And A Frame Stand .....	56.23	
01 55 26 00-0095 DAY Trailer Mounted Flashing Arrow Board .....	149.00	
01 55 26 00-0096 WK Trailer Mounted Flashing Arrow Board .....	412.41	
01 55 26 00-0097 MO Trailer Mounted Flashing Arrow Board .....	1,090.89	
01 55 26 00-0098 DAY Trailer Mounted Portable Variable Message Sign (PVMS) .....	388.98	
01 55 26 00-0099 WK Trailer Mounted Portable Variable Message Sign (PVMS) .....	1,037.28	
01 55 26 00-0100 MO Trailer Mounted Portable Variable Message Sign (PVMS) .....	2,074.56	
01 55 26 00-0101 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two) .....	1,405.67	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0102 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two) .....	4,217.01	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0103 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two) .....	12,651.03	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
<b>01 55 26 00-0104 Place And Remove Temporary Traffic Protection Using Truck</b> (01 55 26 00-0028)		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0039 for delivery >15 miles.		
01 55 26 00-0105 EA Placement And Removal Of Up To 250 Cones Using Truck.....	3.68	
01 55 26 00-0106 EA Placement And Removal Of >250 Cones Using Truck .....	3.22	
01 55 26 00-0107 EA Placement And Removal Of Up To 250 Panels/Channelizers Using Truck .....	6.08	
01 55 26 00-0108 EA Placement And Removal Of >250 Panels/Channelizers Using Truck.....	5.07	
01 55 26 00-0109 EA Placement And Removal Of Up To 250 Barricades Using Truck.....	9.22	
01 55 26 00-0110 EA Placement And Removal Of >250 Barricades Using Truck .....	7.37	
01 55 26 00-0111 EA Placement And Removal Of Curbs/Speed Bumps Using Truck.....	9.22	
01 55 26 00-0112 EA Placement And Removal Of Portable Sign And Stand Using Truck .....	5.53	
01 55 26 00-0113 EA Placement And Removal Of Aluminum Sign And Post Using Truck.....	23.04	
01 55 26 00-0114 EA Placement And Removal Of Trailer Mounted Boards And Signals Using Truck .....	69.11	
01 55 26 00-0115 EA Placement And Removal Of Up To 12.5' Concrete Traffic Barrier .....	94.00	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	235.00	
For 2 Barriers, Add	84.60	
For 3 Barriers, Add	28.20	
01 55 26 00-0116 EA Placement And Removal Of >12.5' Concrete Traffic Barrier.....	141.00	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	352.50	
For 2 Barriers, Add	126.90	
For 3 Barriers, Add	42.30	
01 55 26 00-0117 EA Placement And Removal Of Plastic Water Barrier.....	54.20	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	117.50	
For 2 Barriers, Add	42.30	
For 3 Barriers, Add	14.10	
01 55 26 00-0118 EA Placement And Removal Of Crash Attenuator Barrels .....	70.50	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	176.25	
For 2 Barriers, Add	63.45	
For 3 Barriers, Add	21.15	
<b>01 55 26 00-0119 Place And Remove Temporary Traffic Protection From Roadside (Daily)</b> (01 55 26 00-0028)		
01 55 26 00-0120 EA Placement And Removal Of Up To 250 Cones By Hand From Roadside.....	2.30	
01 55 26 00-0121 EA Placement And Removal Of >250 Cones By Hand From Roadside .....	1.85	
01 55 26 00-0122 EA Placement And Removal Of Up To 250 Panels/Channelizers By Hand From Roadside .....	3.07	
01 55 26 00-0123 EA Placement And Removal Of >250 Panels/Channelizers By Hand From Roadside.....	2.44	
01 55 26 00-0124 EA Placement And Removal Of Up To 250 Barricades By Hand From Roadside.....	4.61	
01 55 26 00-0125 EA Placement And Removal Of >250 Barricades By Hand From Roadside .....	3.68	
01 55 26 00-0126 EA Placement And Removal Of Portable Sign And Stand From Roadside.....	2.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0127 EA Placement And Removal Of Trailer Mounted Boards And Signals From Roadside.....	34.56	
01 55 26 00-0128 EA Roadside Relocation Of Concrete Traffic Barrier.....	47.00	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
<b>01 55 26 00-0129 Place And Remove Temporary Signs For Detours (01 55 26 00-0028)</b>		
<b>01 55 26 00-0130 Temporary Reflectorized Signs For Detours (01 55 26 00-0129)</b>		
Note: Excludes posts.		
<b>01 55 26 00-0131 Temporary Aluminum Engineer Grade Stop Signs For Detours (01 55 26 00-0130)</b>		
01 55 26 00-0132 EA Temporary 18" x 18" Aluminum Engineer Grade Stop Sign For Detours.....	80.12	
For Hi-Intensity Grade, Add	6.95	
For Diamond Grade, Add	13.21	
01 55 26 00-0133 EA Temporary 18" x 24" Aluminum Engineer Grade Stop Sign For Detours.....	90.41	
For Hi-Intensity Grade, Add	9.09	
For Diamond Grade, Add	17.27	
01 55 26 00-0134 EA Temporary 24" x 24" Aluminum Engineer Grade Stop Sign For Detours.....	97.15	
For Hi-Intensity Grade, Add	13.89	
For Diamond Grade, Add	22.02	
01 55 26 00-0135 EA Temporary 30" x 30" Aluminum Engineer Grade Stop Sign For Detours.....	109.83	
For Hi-Intensity Grade, Add	5.21	
For Diamond Grade, Add	28.20	
01 55 26 00-0136 EA Temporary 36" x 36" Aluminum Engineer Grade Stop Sign For Detours.....	139.13	
For Hi-Intensity Grade, Add	15.29	
For Diamond Grade, Add	47.97	
<b>01 55 26 00-0137 Other Temporary Reflectorized Traffic Signs For Detours (01 55 26 00-0130)</b>		
Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.		
<b>01 55 26 00-0138 Temporary Aluminum Engineer Grade Traffic Signs For Detours (01 55 26 00-0137)</b>		
01 55 26 00-0139 EA Temporary 6" x 12" Aluminum Engineer Grade Traffic Sign For Detours.....	56.36	
For Hi-Intensity Grade, Add	1.72	
01 55 26 00-0140 EA Temporary 6" x 18" Aluminum Engineer Grade Traffic Sign For Detours.....	59.23	
For Hi-Intensity Grade, Add	2.58	
01 55 26 00-0141 EA Temporary 9" x 12" Aluminum Engineer Grade Traffic Sign For Detours.....	59.23	
For Hi-Intensity Grade, Add	2.58	
01 55 26 00-0142 EA Temporary 9" x 15" Aluminum Engineer Grade Traffic Sign For Detours.....	61.38	
For Hi-Intensity Grade, Add	3.23	
01 55 26 00-0143 EA Temporary 9" x 18" Aluminum Engineer Grade Traffic Sign For Detours.....	63.54	
For Hi-Intensity Grade, Add	3.88	
01 55 26 00-0144 EA Temporary 9" x 24" Aluminum Engineer Grade Traffic Sign For Detours.....	71.01	
For Hi-Intensity Grade, Add	5.17	
01 55 26 00-0145 EA Temporary 9" x 48" Aluminum Engineer Grade Traffic Sign For Detours.....	88.23	
For Hi-Intensity Grade, Add	10.33	
01 55 26 00-0146 EA Temporary 12" x 12" Aluminum Engineer Grade Traffic Sign For Detours.....	62.10	
For Hi-Intensity Grade, Add	3.44	
01 55 26 00-0147 EA Temporary 12" x 18" Aluminum Engineer Grade Traffic Sign For Detours.....	71.01	
For Hi-Intensity Grade, Add	5.17	
01 55 26 00-0148 EA Temporary 12" x 24" Aluminum Engineer Grade Traffic Sign For Detours.....	76.75	
For Hi-Intensity Grade, Add	6.89	
01 55 26 00-0149 EA Temporary 12" x 30" Aluminum Engineer Grade Traffic Sign For Detours.....	82.49	
For Hi-Intensity Grade, Add	8.61	
01 55 26 00-0150 EA Temporary 12" x 36" Aluminum Engineer Grade Traffic Sign For Detours.....	88.23	
For Hi-Intensity Grade, Add	10.33	
01 55 26 00-0151 EA Temporary 18" x 18" Aluminum Engineer Grade Traffic Sign For Detours.....	79.62	
For Hi-Intensity Grade, Add	7.75	
01 55 26 00-0152 EA Temporary 18" x 24" Aluminum Engineer Grade Traffic Sign For Detours.....	88.23	
For Hi-Intensity Grade, Add	10.33	
01 55 26 00-0153 EA Temporary 18" x 30" Aluminum Engineer Grade Traffic Sign For Detours.....	100.01	
For Hi-Intensity Grade, Add	12.92	
01 55 26 00-0154 EA Temporary 18" x 36" Aluminum Engineer Grade Traffic Sign For Detours.....	108.62	
For Hi-Intensity Grade, Add	15.50	
01 55 26 00-0155 EA Temporary 18" x 54" Aluminum Engineer Grade Traffic Sign For Detours.....	147.11	
For Hi-Intensity Grade, Add	23.25	
01 55 26 00-0156 EA Temporary 24" x 24" Aluminum Engineer Grade Traffic Sign For Detours.....	102.88	
For Hi-Intensity Grade, Add	13.78	
01 55 26 00-0157 EA Temporary 24" x 30" Aluminum Engineer Grade Traffic Sign For Detours.....	114.36	
For Hi-Intensity Grade, Add	17.22	
01 55 26 00-0158 EA Temporary 24" x 36" Aluminum Engineer Grade Traffic Sign For Detours.....	125.84	
For Hi-Intensity Grade, Add	20.67	
01 55 26 00-0159 EA Temporary 24" x 42" Aluminum Engineer Grade Traffic Sign For Detours.....	149.98	
For Hi-Intensity Grade, Add	24.11	
01 55 26 00-0160 EA Temporary 24" x 48" Aluminum Engineer Grade Traffic Sign For Detours.....	161.46	
For Hi-Intensity Grade, Add	27.56	
01 55 26 00-0161 EA Temporary 24" x 54" Aluminum Engineer Grade Traffic Sign For Detours.....	172.94	
For Hi-Intensity Grade, Add	31.00	
01 55 26 00-0162 EA Temporary 30" x 30" Aluminum Engineer Grade Traffic Sign For Detours.....	128.71	
For Hi-Intensity Grade, Add	21.53	
01 55 26 00-0163 EA Temporary 30" x 36" Aluminum Engineer Grade Traffic Sign For Detours.....	155.72	
For Hi-Intensity Grade, Add	25.83	

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities and Controls</b>
<b>01 55</b>	<b>Vehicular Access and Parking</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0164 EA Temporary 30" x 42" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	170.07 30.14	
01 55 26 00-0165 EA Temporary 30" x 48" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	197.09 34.45	
01 55 26 00-0166 EA Temporary 30" x 60" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	238.44 43.06	
01 55 26 00-0167 EA Temporary 36" x 36" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	172.94 31.00	
01 55 26 00-0168 EA Temporary 36" x 42" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	202.83 36.17	
01 55 26 00-0169 EA Temporary 36" x 48" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	232.70 41.33	
01 55 26 00-0170 EA Temporary 36" x 54" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	249.92 46.50	
01 55 26 00-0171 EA Temporary 36" x 60" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	279.79 51.67	
01 55 26 00-0172 EA Temporary 36" x 73" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	329.77 62.86	
01 55 26 00-0173 EA Temporary 36" x 78" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	344.12 67.17	
01 55 26 00-0174 EA Temporary 36" x 108" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	449.22 93.00	
01 55 26 00-0175 EA Temporary 42" x 42" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	235.57 42.20	
01 55 26 00-0176 EA Temporary 48" x 48" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	291.28 55.11	
01 55 26 00-0177 EA Temporary 48" x 54" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	326.90 62.00	
01 55 26 00-0178 EA Temporary 48" x 60" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	349.86 68.89	
01 55 26 00-0179 EA Temporary 48" x 66" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	391.82 75.78	
01 55 26 00-0180 EA Temporary 48" x 72" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	414.78 82.67	
01 55 26 00-0181 EA Temporary 48" x 84" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	473.36 96.45	
01 55 26 00-0182 EA Temporary 48" x 96" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	519.28 110.22	
01 55 26 00-0183 EA Temporary 48" x 102" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	542.25 117.11	
01 55 26 00-0184 EA Temporary 48" x 108" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	571.54 124.00	
01 55 26 00-0185 EA Temporary 60" x 72" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	496.32 103.34	
01 55 26 00-0186 EA Temporary 78" x 96" Aluminum Engineer Grade Traffic Sign For Detours ..... <i>For Hi-Intensity Grade, Add</i>	755.25 179.12	
<b>01 55 26 00-0187 Temporary Overhead Sign Structures For Detours</b> <small>(01 55 26 00-0129)</small> Note: Including horizontal Z-bars.		
01 55 26 00-0188 SF From 30 To 360 SF Signs For Temporary Overhead Sign Structures For Detours ..... <i>For Over 10' High, Add</i>	22.50 13.00	
<b>01 55 26 00-0189 Temporary Sign Posts For Detours</b> <small>(01 55 26 00-0129)</small> Note: Excludes sign.		
<b>01 55 26 00-0190 Temporary U-Channel Sign Posts For Detours</b> <small>(01 55 26 00-0189)</small> Note: Excludes digging and concrete.		
<b>01 55 26 00-0191 Temporary Baked Enamel U-Channel Sign Posts For Detours</b> <small>(01 55 26 00-0190)</small>		
01 55 26 00-0192 EA Temporary 3' To 4' Baked Enamel U-Channel Sign Post Base For Detours .....	71.67	
01 55 26 00-0193 EA Temporary 6' Baked Enamel U-Channel Sign Post For Detours .....	92.68	
01 55 26 00-0194 EA Temporary 7' Baked Enamel U-Channel Sign Post For Detours .....	110.84	
01 55 26 00-0195 EA Temporary 8' Baked Enamel U-Channel Sign Post For Detours .....	129.64	
01 55 26 00-0196 EA Temporary 10' Baked Enamel U-Channel Sign Post For Detours .....	156.72	
01 55 26 00-0197 EA Temporary 12' Baked Enamel U-Channel Sign Post For Detours .....	166.39	
<b>01 55 26 00-0198 Temporary Galvanized Steel U-Channel Sign Posts For Detours</b> <small>(01 55 26 00-0190)</small>		
01 55 26 00-0199 EA Temporary 3' To 4' Galvanized Steel U-Channel Sign Post Base For Detours.....	75.76	
01 55 26 00-0200 EA Temporary 6' Galvanized Steel U-Channel Sign Post For Detours.....	99.17	
01 55 26 00-0201 EA Temporary 7' Galvanized Steel U-Channel Sign Post For Detours.....	125.50	
01 55 26 00-0202 EA Temporary 8' Galvanized Steel U-Channel Sign Post For Detours.....	145.85	
01 55 26 00-0203 EA Temporary 10' Galvanized Steel U-Channel Sign Post For Detours.....	168.52	
01 55 26 00-0204 EA Temporary 12' Galvanized Steel U-Channel Sign Post For Detours.....	176.65	
<b>01 55 26 00-0205 Temporary Fiberglass Or Composite Plastic U-Channel Sign Posts For Detours</b> <small>(01 55 26 00-0190)</small>		
01 55 26 00-0206 EA Temporary 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base For Detours.....	70.71	
01 55 26 00-0207 EA Temporary 6' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	90.59	
01 55 26 00-0208 EA Temporary 7' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours.....	108.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0209 EA Temporary 8' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours .....	126.63	
01 55 26 00-0210 EA Temporary 10' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours .....	151.25	
01 55 26 00-0211 EA Temporary 12' Fiberglass Or Composite Plastic U-Channel Sign Post For Detours .....	163.15	
<b>01 55 26 00-0212 Temporary Tubular Sign Posts For Detours (01 55 26 00-0189)</b>		
Note: Excludes digging and concrete.		
<b>01 55 26 00-0213 Temporary 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours (01 55 26 00-0212)</b>		
01 55 26 00-0214 EA Temporary 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	99.84	
01 55 26 00-0215 EA Temporary 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	118.84	
01 55 26 00-0216 EA Temporary 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	139.91	
01 55 26 00-0217 EA Temporary 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	177.39	
01 55 26 00-0218 EA Temporary 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post For Detours.....	190.69	
<b>01 55 26 00-0219 Temporary Square Sign Posts For Detours (01 55 26 00-0189)</b>		
Note: Excludes digging and concrete.		
<b>01 55 26 00-0220 Temporary Galvanized Steel Square Sign Posts For Detours (01 55 26 00-0219)</b>		
01 55 26 00-0221 EA Temporary 3' To 4' Galvanized Steel Square Sign Post Base For Detours .....	76.67	
01 55 26 00-0222 EA Temporary 6' Galvanized Steel Square Sign Post For Detours .....	114.52	
01 55 26 00-0223 EA Temporary 7' Galvanized Steel Square Sign Post For Detours .....	135.05	
01 55 26 00-0224 EA Temporary 8' Galvanized Steel Square Sign Post For Detours .....	157.54	
01 55 26 00-0225 EA Temporary 10' Galvanized Steel Square Sign Post For Detours .....	192.10	
01 55 26 00-0226 EA Temporary 12' Galvanized Steel Square Sign Post For Detours .....	206.36	
<b>01 55 26 00-0227 Temporary Breakaway Sign Posts And Bases For Detours (01 55 26 00-0129)</b>		
Note: For breakaway post systems, base posts are driven in, sign posts bolted to base post using lap splice hardware kit. Excludes sign.		
<b>01 55 26 00-0228 Temporary 2.5 LB/LF Breakaway Sign Posts And Base Posts For Detours (01 55 26 00-0227)</b>		
<b>01 55 26 00-0229 Temporary Base Posts, 2.5 LB/LF, For Breakaway Sign Posts For Detours (01 55 26 00-0228)</b>		
01 55 26 00-0230 EA Temporary Base Post for 2.5 LB/LF, Breakaway Sign Post For Detours.....	97.69	
01 55 26 00-0231 EA Temporary Lap Splice Hardware For 2.5 LB/LF, Breakaway Sign Post For Detours.....	61.83	
<b>01 55 26 00-0232 Temporary Breakaway Sign Posts, 2.5 LB/LF For Detours (01 55 26 00-0228)</b>		
01 55 26 00-0233 LF Temporary Breakaway Sign Post, 2.5 LB/LF For Detours.....	11.67	
<b>01 55 26 00-0234 Temporary 4 LB/LF Breakaway Sign Posts And Base Posts For Detours (01 55 26 00-0227)</b>		
<b>01 55 26 00-0235 Temporary Base Posts, 4 LB/LF, For Breakaway Sign Posts For Detours (01 55 26 00-0234)</b>		
01 55 26 00-0236 EA Temporary Base Post for 4 LB/LF, Breakaway Sign Post For Detours.....	101.05	
01 55 26 00-0237 EA Temporary Lap Splice Hardware for 4 LB/LF, Breakaway Sign Post For Detours.....	61.83	
<b>01 55 26 00-0238 Temporary Breakaway Sign Posts, 4 LB/LF For Detours (01 55 26 00-0234)</b>		
01 55 26 00-0239 LF Temporary Breakaway Sign Post, 4 LB/LF For Detours.....	13.75	
<b>01 55 26 00-0240 Temporary Driven Sign Posts For Detours (01 55 26 00-0227)</b>		
<b>01 55 26 00-0241 Temporary Driven Posts, 2.5 LB/LF For Detours (01 55 26 00-0240)</b>		
01 55 26 00-0242 LF Temporary Driven Post, 2.5 LB/LF For Detours.....	13.35	
For Each Soil Plate, Add		3.00
<b>01 55 26 00-0243 Temporary Driven Posts, 4 LB/LF For Detours (01 55 26 00-0240)</b>		
01 55 26 00-0244 LF Temporary Driven Post, 4 LB/LF For Detours.....	16.28	
For Each Soil Plate, Add		3.00
<b>01 55 26 00-0245 Temporary Omni-Directional Breakaway System For Sign Posts And Light Poles For Detours (01 55 26 00-0227)</b>		
<b>01 55 26 00-0246 Temporary Omni-Directional Breakaway Systems For Signs For Detours (01 55 26 00-0245)</b>		
Note: Break-Safe as manufactured by Transpo Industries. Organized by post type and size. Includes hinges, anchors, all associated parts and drilling.		
01 55 26 00-0247 EA Temporary Omni-Directional Breakaway System For 6" To 8" Wide Flange (Transpo B525) .....	1,138.07	
01 55 26 00-0248 EA Temporary Omni-Directional Breakaway System For 10" To 21" Wide Flange (Transpo B650) .....	1,212.78	
01 55 26 00-0249 EA Temporary Omni-Directional Breakaway System For Standard I Beam Or W6x9 Flange (Transpo A14 And A16) .....	831.44	
01 55 26 00-0250 EA Temporary Omni-Directional Breakaway System For 3" To 4.5" Outside Diameter Pipe (Transpo A3 And A4.5).....	728.22	
01 55 26 00-0251 EA Temporary Omni-Directional Breakaway System For Square Tube (Transpo AS3 And AS4).....	825.71	
01 55 26 00-0252 EA Temporary Omni-Directional Breakaway System For U-Channels (Transpo AU4 To AU6) .....	785.56	
01 55 26 00-0253 EA Temporary Omni-Directional Breakaway System For U-Channels Embedded (Transpo AUX4 To AUX6) .....	744.19	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities and Controls</b>
	<b>01 55</b>	<b>Vehicular Access and Parking</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 55 26 00-0254</b>	<b>Temporary Omni-Directional Breakaway Systems For Poles For Detours <sup>(01 55 26 00-0245)</sup></b>	
Note: Pole-Safe As Manufactured By Transpo Industries. Organized by bolt size. Includes four couplings, all associated parts, drilling and can be for new or for retro-fitting existing poles.		
01 55 26 00-0255 EA	Temporary Omni-Directional Breakaway System For Poles With 5/8" Couplings.....	405.25
01 55 26 00-0256 EA	Temporary Omni-Directional Breakaway System For Poles With 3/4" Couplings.....	424.92
01 55 26 00-0257 EA	Temporary Omni-Directional Breakaway System For Poles With 1" Couplings.....	441.24
01 55 26 00-0258 EA	Temporary Omni-Directional Breakaway System For Poles With 1 1/4" Couplings.....	669.99
01 55 26 00-0259 EA	Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 10" To Less Than 15".....	58.84
01 55 26 00-0260 EA	Temporary Skirt For Omni-Directional Breakaway System For Poles With Bolt Circle Diameter Of 15" To 20".....	78.44
<b>01 55 26 00-0261</b>	<b>Temporary Rumble Strips <sup>(01 55 26)</sup></b>	
Note: Includes removal after use.		
01 55 26 00-0262 LF	1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip.....	13.37
01 55 26 00-0263 LF	1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip.....	9.58
<b>01 56</b>	<b>Temporary Barriers and Enclosures <sup>(01 50)</sup></b>	
Note: Includes removal after use.		
<b>01 56 16</b>	<b>Temporary Dust Barriers <sup>(01 56)</sup></b>	
<b>01 56 16 00-0001</b>	<b>Temporary Sheeting For Protection <sup>(01 56 16)</sup></b>	
Note: Includes removal after use.		
01 56 16 00-0002 SF	6 Mil, Plastic Sheeting, Applied To Floors.....	0.36
01 56 16 00-0003 SF	6 Mil, Plastic Sheeting, Applied To Walls.....	0.47
01 56 16 00-0004 SF	6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.62
01 56 16 00-0005 SF	6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.62
01 56 16 00-0006 SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.45
01 56 16 00-0007 SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.56
01 56 16 00-0008 SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.71
01 56 16 00-0009 SF	6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.67
01 56 16 00-0010 SF	10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.87
01 56 16 00-0011 SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Floors.....	0.47
01 56 16 00-0012 SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Walls.....	0.58
01 56 16 00-0013 SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Ceilings.....	0.73
01 56 16 00-0014 SF	6 Mil, Fire Retardant, Anti-static, Plastic Sheeting, Applied To Scaffolding.....	0.69
01 56 16 00-0015 SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....	0.46
01 56 16 00-0016 SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....	0.57
01 56 16 00-0017 SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.72
01 56 16 00-0018 SF	6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.68
01 56 16 00-0019 SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....	0.54
01 56 16 00-0020 SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.65
01 56 16 00-0021 SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.80
01 56 16 00-0022 SF	6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.76
<b>01 56 16 00-0023</b>	<b>Accessories For Temporary Sheeting <sup>(01 56 16)</sup></b>	
Note: Includes removal after use.		
01 56 16 00-0024 EA	7' Zipper Door For Plastic Sheeting.....	23.80
01 56 16 00-0025 LF	Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	9.55
Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.		
<b>01 56 16 00-0026</b>	<b>Temporary Critical Barriers For Protection <sup>(01 56 16)</sup></b>	
Note: Includes removal after use. See CSI section 02 89 00 00-0002 for Other barriers for infectious control.		
01 56 16 00-0027 EA	Up To 1 SF Individual Critical Barriers.....	12.86
Note: For Outlets And Receptacles		
01 56 16 00-0028 EA	>1 To 4 SF Individual Critical Barriers.....	19.51
Note: For diffusers, ceiling speakers, return grilles, etc.		
01 56 16 00-0029 EA	>4 To 8 SF Individual Critical Barriers.....	26.23
Note: For diffusers, return grilles, access doors, light fixtures, etc.		
01 56 16 00-0030 EA	>8 To 32 SF Individual Critical Barriers.....	40.96
Note: For doors, windows, etc.		
<b>01 56 16 00-0031</b>	<b>Temporary Stud Wall <sup>(01 56 16)</sup></b>	
Note: Includes removal after use.		
<b>01 56 16 00-0032</b>	<b>Temporary Stud Wall With Drywall <sup>(01 56 16 00-0031)</sup></b>	
Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.		
<b>01 56 16 00-0033</b>	<b>Temporary Stud Wall With Drywall <sup>(01 56 16 00-0032)</sup></b>	
01 56 16 00-0034 SF	3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.89
For Metal Studs 24" On Center, Add/Deduct		0.44
01 56 16 00-0035 SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.89
For Metal Studs 24" On Center, Add/Deduct		0.44



		<b>General Requirements</b>	<b>01</b>
		<b>Temporary Facilities and Controls</b>	<b>01 50</b>
		<b>Temporary Barriers and Enclosures</b>	<b>01 56</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0036	SF		5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.00 0.44	
01 56 16 00-0037	SF		3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.53 0.55	
01 56 16 00-0038	SF		1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.53 0.55	
01 56 16 00-0039	SF		5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.75 0.55	
<b>01 56 16 00-0040</b>			<b>Temporary Stud Wall With Fire Rated Drywall</b> <small>(01 56 16 00-0032)</small>		
01 56 16 00-0041	SF		1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.02 0.44	
01 56 16 00-0042	SF		5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.06 0.44	
01 56 16 00-0043	SF		5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.99 0.44	
01 56 16 00-0044	SF		3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.84 0.44	
01 56 16 00-0045	SF		1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.78 0.55	
01 56 16 00-0046	SF		5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.86 0.55	
01 56 16 00-0047	SF		5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.73 0.55	
01 56 16 00-0048	SF		3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	11.43 0.55	
<b>01 56 16 00-0049</b>			<b>Temporary Stud Wall With Oriented Strand Board (OSB)</b> <small>(01 56 16 00-0031)</small> Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0050	SF		7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.72 0.44	
01 56 16 00-0051	SF		1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.76 0.44	
01 56 16 00-0052	SF		5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.89 0.44	
01 56 16 00-0053	SF		3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	6.96 0.44	
01 56 16 00-0054	SF		7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.18 0.55	
01 56 16 00-0055	SF		1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.27 0.55	
01 56 16 00-0056	SF		5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.53 0.55	
01 56 16 00-0057	SF		3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.66 0.55	
<b>01 56 16 00-0058</b>			<b>Temporary Stud Wall With BC Plywood</b> <small>(01 56 16 00-0031)</small> Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0059	SF		3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.02 0.44	
01 56 16 00-0060	SF		1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.19 0.44	
01 56 16 00-0061	SF		5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.37 0.44	
01 56 16 00-0062	SF		3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	7.51 0.44	
01 56 16 00-0063	SF		3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	9.79 0.55	
01 56 16 00-0064	SF		1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	10.12 0.55	
01 56 16 00-0065	SF		5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	10.49 0.55	
01 56 16 00-0066	SF		3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	10.77 0.55	
<b>01 56 16 00-0067</b>			<b>Temporary Stud Wall With Plastic Sheeting</b> <small>(01 56 16 00-0031)</small> Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheathing, and removal after use.		
01 56 16 00-0068	SF		6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	3.98 0.32	
01 56 16 00-0069	SF		6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	4.06 0.32	
01 56 16 00-0070	SF		6 Mil, Fire Retardant, Anti-static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	4.08 0.32	
01 56 16 00-0071	SF		6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	4.08 0.32	

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities and Controls</b>
<b>01 56</b>	<b>Temporary Barriers and Enclosures</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0072 SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center ..... <i>For Metal Studs 24" On Center, Add/Deduct</i>	4.15	0.32
<b>01 56 16 00-0073 Temporary Doors</b> <small>(01 56 16 00-0031)</small> Note: For temporary stud walls. Includes removal after use.		
01 56 16 00-0074 EA Temporary Metal Door And Frame ..... Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.	673.82	
<b>01 56 16 00-0075 Temporary Floor Protection</b> <small>(01 56 16)</small> Note: Includes removal after use.		
01 56 16 00-0076 SF 1/8" Thick, Masonite For Temporary Floor Protection.....	1.73	
01 56 16 00-0077 SF 1/2" Thick, Plywood For Temporary Floor Protection.....	1.75	
01 56 16 00-0078 SF 3/4" Thick, Plywood For Temporary Floor Protection.....	2.06	
01 56 16 00-0079 LF 38" Wide, 46 Mil Fiberboard, Ram Board® For Temporary Floor Protection.....	1.04	
01 56 16 00-0080 LF 36" Wide, 9 Mil, Regular Weight Red Rosin Paper, For Temporary Floor Protection.....	0.33	
01 56 16 00-0081 CSF 3 Mil, Temporary Self-adhesive Carpet Protection Film.....	26.63	
01 56 16 00-0082 SF Burlap For Temporary Floor Protection.....	0.69	
<b>01 56 16 00-0083 Sticky Mats</b> <small>(01 56 16)</small> Note: Includes removal after use.		
01 56 16 00-0084 EA 18" x 36", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	37.11 24.67	
01 56 16 00-0085 EA 18" x 46", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	42.59 28.78	
01 56 16 00-0086 EA 24" x 36", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	42.59 28.78	
01 56 16 00-0087 EA 25" x 45", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	56.30 39.06	
01 56 16 00-0088 EA 36" x 36", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	61.78 43.17	
01 56 16 00-0089 EA 36" x 46", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	67.26 47.28	
01 56 16 00-0090 EA 36" x 60", 30 Layer Sticky Mat ..... <i>For 60 Layers Instead Of 30, Add</i>	135.78 98.67	
01 56 16 00-0091 EA 36" x 72", 30 Layer Sticky Mat .....	162.09	
<b>01 56 26 Temporary Fencing</b> <small>(01 56)</small>		
<b>01 56 26 00-0001 Temporary Fencing</b> <small>(01 56 26)</small> Note: Per ASTM A392-06 Standards		
<b>01 56 26 00-0002 Temporary Chain Link Fence</b> <small>(01 56 26 00-0001)</small> Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0024 for core drilling in asphalt or concrete, 32 31 13 13-0001 for augering and backfill of posts.		
<b>01 56 26 00-0003 Temporary Chain Link Fence, Up To 6 Months</b> <small>(01 56 26 00-0002)</small>		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.36 -0.15 -0.30 -0.45 1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.08 -0.17 -0.34 -0.51 2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	9.75 -0.29 -0.57 -0.86 3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	21.43 -0.85 -1.70 -2.54 4.75	
<b>01 56 26 00-0008 Temporary Chain Link Fence, &gt;6 To 12 Months</b> <small>(01 56 26 00-0002)</small>		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	6.67 -0.17 -0.33 -0.50 1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.42 -0.19 -0.37 -0.56 2.55	





		<b>General Requirements</b>	<b>01</b>
		Temporary Facilities and Controls	01 50
		Temporary Barriers and Enclosures	01 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0011	LF		Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	10.31 -0.31 -0.63 -0.94 3.60	
01 56 26 00-0012	LF		Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	23.12 -0.93 -1.86 -2.80 4.75	
<b>01 56 26 00-0013</b>			<b>Temporary Chain Link Fence, &gt;12 To 18 Months</b> (01 56 26 00-0002)		
01 56 26 00-0014	LF		Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.00 -0.18 -0.36 -0.54 1.60	
01 56 26 00-0015	LF		Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.80 -0.20 -0.41 -0.61 2.55	
01 56 26 00-0016	LF		Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	10.95 -0.35 -0.69 -1.04 3.60	
01 56 26 00-0017	LF		Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	24.98 -1.03 -2.05 -3.08 4.75	
<b>01 56 26 00-0018</b>			<b>Temporary Chain Link Fence, &gt;18 Months</b> (01 56 26 00-0002)		
01 56 26 00-0019	LF		Temporary 4' High Chain Link Fence And Posts, >18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	7.36 -0.20 -0.40 -0.60 1.60	
01 56 26 00-0020	LF		Temporary 6' High Chain Link Fence And Posts, >18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	8.18 -0.22 -0.45 -0.67 2.55	
01 56 26 00-0021	LF		Temporary 8' High Chain Link Fence And Posts, >18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	11.63 -0.38 -0.76 -1.14 3.60	
01 56 26 00-0022	LF		Temporary 10' High Chain Link Fence And Posts, >18 Months..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Each LF Shade Cloth, Add</i>	27.03 -1.13 -2.26 -3.38 4.75	
<b>01 56 26 00-0023</b>			<b>Temporary Chain Link Fence Gates</b> (01 56 26 00-0001) Note: Includes delivery, set-up (driving posts) and removal. Excludes auguring/drilling for posts. See CSI section 02 41 19 13-0024 for core drilling in asphalt or concrete, 32 31 13 13-0001 for auguring and backfill of posts.		
<b>01 56 26 00-0024</b>			<b>Temporary Chain Link Fence Gates, Up To 6 Months</b> (01 56 26 00-0023)		
<b>01 56 26 00-0025</b>			<b>4' High, Temporary Chain Link Fence Gates, Up To 6 Months</b> (01 56 26 00-0024)		
01 56 26 00-0026	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	253.82 14.23	
01 56 26 00-0027	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	431.39 35.57	
01 56 26 00-0028	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	483.02 42.68	
01 56 26 00-0029	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	549.83 53.35	
01 56 26 00-0030	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	658.55 71.14	
01 56 26 00-0031	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	733.06 85.36	
<b>01 56 26 00-0032</b>			<b>6' High, Temporary Chain Link Fence Gates, Up To 6 Months</b> (01 56 26 00-0024)		
01 56 26 00-0033	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	271.77 22.67	
01 56 26 00-0034	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months..... <i>For Each LF Shade Cloth, Add</i>	465.96 56.69	

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities and Controls</b>
<b>01 56</b>	<b>Temporary Barriers and Enclosures</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	522.88	
For Each LF Shade Cloth, Add	68.02	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	605.97	
For Each LF Shade Cloth, Add	85.03	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	732.47	
For Each LF Shade Cloth, Add	113.37	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	831.24	
For Each LF Shade Cloth, Add	136.05	
<b>01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	303.50	
For Each LF Shade Cloth, Add	32.01	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	534.07	
For Shade Cloth, Add	80.03	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	597.28	
For Shade Cloth, Add	96.03	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	683.78	
For Shade Cloth, Add	120.04	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	835.67	
For Shade Cloth, Add	160.06	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	970.00	
For Shade Cloth, Add	192.07	
<b>01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	367.65	
For Each LF Shade Cloth, Add	42.24	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	640.39	
For Each LF Shade Cloth, Add	105.59	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	717.61	
For Each LF Shade Cloth, Add	126.71	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	820.34	
For Each LF Shade Cloth, Add	158.39	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,002.82	
For Each LF Shade Cloth, Add	211.18	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	1,158.69	
For Each LF Shade Cloth, Add	253.42	
<b>01 56 26 00-0053 Temporary Chain Link Fence Gates, &gt;6 To 12 Months (01 56 26 00-0023)</b>		
<b>01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months (01 56 26 00-0053)</b>		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	263.35	
For Each LF Shade Cloth, Add	14.23	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	446.21	
For Each LF Shade Cloth, Add	35.57	
01 56 26 00-0057 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	499.96	
For Each LF Shade Cloth, Add	42.68	
01 56 26 00-0058 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	568.89	
For Each LF Shade Cloth, Add	53.35	
01 56 26 00-0059 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	681.84	
For Each LF Shade Cloth, Add	71.14	
01 56 26 00-0060 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	758.47	
For Each LF Shade Cloth, Add	85.36	
<b>01 56 26 00-0061 6' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months (01 56 26 00-0053)</b>		
01 56 26 00-0062 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	281.73	
For Each LF Shade Cloth, Add	22.67	
01 56 26 00-0063 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	481.45	
For Each LF Shade Cloth, Add	56.69	
01 56 26 00-0064 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	540.59	
For Each LF Shade Cloth, Add	68.02	
01 56 26 00-0065 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	625.89	
For Each LF Shade Cloth, Add	85.03	
01 56 26 00-0066 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	756.82	
For Each LF Shade Cloth, Add	113.37	
01 56 26 00-0067 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	857.80	
For Each LF Shade Cloth, Add	136.05	
<b>01 56 26 00-0068 8' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months (01 56 26 00-0053)</b>		
01 56 26 00-0069 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	314.46	
For Each LF Shade Cloth, Add	32.01	
01 56 26 00-0070 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	551.11	
For Shade Cloth, Add	80.03	
01 56 26 00-0071 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	616.76	
For Shade Cloth, Add	96.03	
01 56 26 00-0072 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	705.69	
For Shade Cloth, Add	120.04	
01 56 26 00-0073 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	862.45	
For Shade Cloth, Add	160.06	



		<b>General Requirements</b>	<b>01</b>
		Temporary Facilities and Controls	01 50
		Temporary Barriers and Enclosures	01 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0074 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Shade Cloth, Add</i>	999.22 192.07	
<b>01 56 26 00-0075 10' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>		
01 56 26 00-0076 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	381.34 42.24	
01 56 26 00-0077 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	661.69 105.59	
01 56 26 00-0078 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	741.96 126.71	
01 56 26 00-0079 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	847.73 158.39	
01 56 26 00-0080 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	1,036.29 211.18	
01 56 26 00-0081 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months <i>For Each LF Shade Cloth, Add</i>	1,195.22 253.42	
<b>01 56 26 00-0082 Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0023)</small>		
<b>01 56 26 00-0083 4' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>		
01 56 26 00-0084 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	273.35 14.23	
01 56 26 00-0085 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	461.77 35.57	
01 56 26 00-0086 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	517.74 42.68	
01 56 26 00-0087 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	588.89 53.35	
01 56 26 00-0088 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	706.29 71.14	
01 56 26 00-0089 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	785.15 85.36	
<b>01 56 26 00-0090 6' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>		
01 56 26 00-0091 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	292.19 22.67	
01 56 26 00-0092 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	497.72 56.69	
01 56 26 00-0093 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	559.18 68.02	
01 56 26 00-0094 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	646.80 85.03	
01 56 26 00-0095 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	782.38 113.37	
01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	885.68 136.05	
<b>01 56 26 00-0097 8' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>		
01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	325.96 32.01	
01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	569.01 80.03	
01 56 26 00-0100 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	637.21 96.03	
01 56 26 00-0101 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	728.70 120.04	
01 56 26 00-0102 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	890.57 160.06	
01 56 26 00-0103 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	1,029.90 192.07	
<b>01 56 26 00-0104 10' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>		
01 56 26 00-0105 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	395.72 42.24	
01 56 26 00-0106 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	684.06 105.59	
01 56 26 00-0107 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	767.52 126.71	
01 56 26 00-0108 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	876.49 158.39	
01 56 26 00-0109 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	1,071.44 211.18	
01 56 26 00-0110 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Each LF Shade Cloth, Add</i>	1,233.56 253.42	
<b>01 56 26 00-0111 Temporary Chain Link Fence Gates, &gt;18 Months</b> <small>(01 56 26 00-0023)</small>		

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities and Controls</b>
<b>01 56</b>	<b>Temporary Barriers and Enclosures</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 56 26 00-0112</b> 4' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0113 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....	283.35	
For Each LF Shade Cloth, Add	14.23	
01 56 26 00-0114 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....	477.33	
For Each LF Shade Cloth, Add	35.57	
01 56 26 00-0115 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....	535.53	
For Each LF Shade Cloth, Add	42.68	
01 56 26 00-0116 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....	608.90	
For Each LF Shade Cloth, Add	53.35	
01 56 26 00-0117 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....	730.74	
For Each LF Shade Cloth, Add	71.14	
01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months .....	811.82	
For Each LF Shade Cloth, Add	85.36	
<b>01 56 26 00-0119</b> 6' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....	302.65	
For Each LF Shade Cloth, Add	22.67	
01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....	513.99	
For Each LF Shade Cloth, Add	56.69	
01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....	577.77	
For Each LF Shade Cloth, Add	68.02	
01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....	667.72	
For Each LF Shade Cloth, Add	85.03	
01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....	807.95	
For Each LF Shade Cloth, Add	113.37	
01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months .....	913.57	
For Each LF Shade Cloth, Add	136.05	
<b>01 56 26 00-0126</b> 8' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....	337.47	
For Each LF Shade Cloth, Add	32.01	
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....	586.90	
For Shade Cloth, Add	80.03	
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....	657.67	
For Shade Cloth, Add	96.03	
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....	751.71	
For Shade Cloth, Add	120.04	
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....	918.69	
For Shade Cloth, Add	160.06	
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months .....	1,060.57	
For Shade Cloth, Add	192.07	
<b>01 56 26 00-0133</b> 10' High, Temporary Chain Link Fence Gates, >18 Months <small>(01 56 26 00-0111)</small>		
01 56 26 00-0134 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....	410.10	
For Each LF Shade Cloth, Add	42.24	
01 56 26 00-0135 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....	706.43	
For Each LF Shade Cloth, Add	105.59	
01 56 26 00-0136 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....	793.09	
For Each LF Shade Cloth, Add	126.71	
01 56 26 00-0137 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....	905.25	
For Each LF Shade Cloth, Add	158.39	
01 56 26 00-0138 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....	1,106.60	
For Each LF Shade Cloth, Add	211.18	
01 56 26 00-0139 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....	1,271.91	
For Each LF Shade Cloth, Add	253.42	
<b>01 56 26 00-0140</b> Temporary Chain Link Fence Panels (Portable) <small>(01 56 26 00-0001)</small>		
Note: Includes delivery, set-up and removal. Excludes sandbags.		
<b>01 56 26 00-0141</b> Temporary Chain Link Fence Panels (Portable), Up To 6 Months <small>(01 56 26 00-0140)</small>		
01 56 26 00-0142 LF Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months.....	6.95	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.36	
For >500, Deduct	-0.54	
For Each LF Shade Cloth, Add	1.60	
01 56 26 00-0143 LF Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months.....	7.72	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.40	
For >500, Deduct	-0.60	
For Each LF Shade Cloth, Add	2.55	
01 56 26 00-0144 LF Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months.....	10.52	
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.65	
For >500, Deduct	-0.97	
For Each LF Shade Cloth, Add	3.60	
<b>01 56 26 00-0145</b> Temporary Chain Link Fence Panels (Portable), >6 To 12 Months <small>(01 56 26 00-0140)</small>		



<b>General Requirements</b>	<b>01</b>	<b>10</b>
Temporary Facilities and Controls	01 50	
Temporary Barriers and Enclosures	01 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0146 LF Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	7.26	
<i>For &gt;100 To 250, Deduct</i>	-0.19	
<i>For &gt;250 To 500, Deduct</i>	-0.39	
<i>For &gt;500, Deduct</i>	-0.58	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0147 LF Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	8.06	
<i>For &gt;100 To 250, Deduct</i>	-0.22	
<i>For &gt;250 To 500, Deduct</i>	-0.44	
<i>For &gt;500, Deduct</i>	-0.65	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0148 LF Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months.....	11.08	
<i>For &gt;100 To 250, Deduct</i>	-0.35	
<i>For &gt;250 To 500, Deduct</i>	-0.70	
<i>For &gt;500, Deduct</i>	-1.05	
<i>For Each LF Shade Cloth, Add</i>	3.60	
<b>01 56 26 00-0149 Temporary Chain Link Fence Panels (Portable), &gt;12 To 18 Months (01 56 26 00-0140)</b>		
01 56 26 00-0150 LF Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	7.56	
<i>For &gt;100 To 250, Deduct</i>	-0.21	
<i>For &gt;250 To 500, Deduct</i>	-0.42	
<i>For &gt;500, Deduct</i>	-0.63	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0151 LF Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	8.44	
<i>For &gt;100 To 250, Deduct</i>	-0.24	
<i>For &gt;250 To 500, Deduct</i>	-0.47	
<i>For &gt;500, Deduct</i>	-0.71	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0152 LF Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months.....	11.72	
<i>For &gt;100 To 250, Deduct</i>	-0.38	
<i>For &gt;250 To 500, Deduct</i>	-0.77	
<i>For &gt;500, Deduct</i>	-1.15	
<i>For Each LF Shade Cloth, Add</i>	3.60	
<b>01 56 26 00-0153 Temporary Chain Link Fence Panels (Portable), &gt;18 Months (01 56 26 00-0140)</b>		
01 56 26 00-0154 LF Temporary 4' High Chain Link Fence Panels (Portable), >18 Months.....	7.95	
<i>For &gt;100 To 250, Deduct</i>	-0.23	
<i>For &gt;250 To 500, Deduct</i>	-0.46	
<i>For &gt;500, Deduct</i>	-0.69	
<i>For Each LF Shade Cloth, Add</i>	1.60	
01 56 26 00-0155 LF Temporary 6' High Chain Link Fence Panels (Portable), >18 Months.....	8.82	
<i>For &gt;100 To 250, Deduct</i>	-0.26	
<i>For &gt;250 To 500, Deduct</i>	-0.51	
<i>For &gt;500, Deduct</i>	-0.77	
<i>For Each LF Shade Cloth, Add</i>	2.55	
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months.....	12.38	
<i>For &gt;100 To 250, Deduct</i>	-0.42	
<i>For &gt;250 To 500, Deduct</i>	-0.83	
<i>For &gt;500, Deduct</i>	-1.25	
<i>For Each LF Shade Cloth, Add</i>	3.60	
<b>01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)</b>		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag.....	6.51	
Note: Includes placement and removal.		
<b>01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)</b>		
Note: Excludes auguring/drilling for posts.		
<b>01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)</b>		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts.....	3.78	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts.....	5.67	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts.....	8.19	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts.....	10.08	
<b>01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)</b>		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing.....	0.84	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing.....	1.01	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing.....	1.13	
<b>01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)</b>		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts.....	109.67	
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts.....	126.55	
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts.....	156.07	
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts.....	168.73	
<b>01 56 26 00-0174 Temporary Safety Fence (01 56 26)</b>		
Note: Includes removal after use.		

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities and Controls</b>
	<b>01 56</b>	<b>Temporary Barriers and Enclosures</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0175	LF	48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence .....	3.35	
<b>01 56 29 Temporary Protective Walkways (01 56)</b>				
01 56 29 00-0001		Temporary Sidewalk Bridge Protection (01 56 29)		
01 56 29 00-0002		Installation of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0003	LF	Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	181.10	
		Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
		For 3 Post System, Add	6.00	
		For Each Additional Foot Over 8' Wide, Add	3.00	
		For Each Additional Foot Over 8' High, Add	2.00	
01 56 29 00-0004	LF	Installation of Netting for Sidewalk Bridge.....	4.61	
01 56 29 00-0005		Monthly Rental of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0006	LF	Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	14.94	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	2.24	
01 56 29 00-0007	LF	Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	16.82	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	2.52	
01 56 29 00-0008	LF	Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	18.69	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	2.80	
01 56 29 00-0009	LF	Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	18.69	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	2.80	
01 56 29 00-0010	LF	Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	20.54	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	3.08	
01 56 29 00-0011	LF	Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	24.31	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	3.65	
01 56 29 00-0012	LF	Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	22.44	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	3.37	
01 56 29 00-0013	LF	Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	26.18	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	3.93	
01 56 29 00-0014	LF	Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	28.00	
		Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
		For 3 Post System, Add	4.20	
01 56 29 00-0015	LF	Monthly Rental of Netting for Sidewalk Bridge.....	2.80	
01 56 29 00-0016		Removal of Sidewalk Bridge (01 56 29 00-0001)		
01 56 29 00-0017	LF	Removal Of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	37.69	
		Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
		For 3 Post System, Add	2.50	
		For Each Additional Foot Over 8' Wide, Add	1.25	
		For Each Additional Foot Over 8' High, Add	0.75	
01 56 29 00-0018	LF	Removal Of Netting For Sidewalk Bridge.....	2.31	
01 56 29 00-0019		Temporary Safety Nets (01 56 29)		
		Note: Includes removal after use.		
01 56 29 00-0020	SF	Small Mesh Debris Netting .....	2.17	
		Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
<b>01 56 33 Temporary Security Barriers (01 56)</b>				
01 56 33 00-0001		Board-up Opening With Plywood (01 56 33)		
		Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002	OPNG	Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	12.66	
01 56 33 00-0003	SF	5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening .....	8.28	
01 56 33 00-0004	SF	3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners, For Board-Up Opening .....	9.56	
01 56 33 00-0005		Temporary Pedestrian Barricade (01 56 33)		
		Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0006	DAY	3-1/2" x 7-1/2" Galvanized Steel Pedestrian Barricade, Rental.....	13.95	



		<b>General Requirements</b>	<b>01</b>
		Temporary Facilities and Controls	01 50
		Temporary Barriers and Enclosures	01 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 33 00-0007	WK		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	33.89	
01 56 33 00-0008	MO		3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	101.66	
<b>01 56 39 Temporary Tree and Plant Protection (01 56)</b>					
<b>01 56 39 00-0001 Temporary Tree Guards (01 56 39)</b>					
Note: Includes digging holes and removal after use.					
01 56 39 00-0002	EA		Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	189.30	
01 56 39 00-0003	EA		4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	225.91	
01 56 39 00-0004	EA		6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	245.84	
<b>01 57 Temporary Controls (01 50)</b>					
<b>01 57 13 Temporary Erosion and Sediment Control (01 57)</b>					
See CSI section 31 25 00 00-0000 for temporary erosion and sediment control.					
<b>01 57 23 Temporary Storm Water Pollution Control (01 57)</b>					
See CSI section 31 25 00 00-0000 for temporary storm water pollution control.					
<b>01 57 23 00-0001 Temporary Drain Guard (01 57 23)</b>					
Note: Includes removal after use.					
01 57 23 00-0002	EA		36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227).....	106.29	
01 57 23 00-0003	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217).....	104.23	
Note: Up to 0.87 gallons oil, up to 40 lbs sediment.					
01 57 23 00-0004	EA		36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219).....	133.12	
Note: Up to 1.38 gallons oil, up to 40 lbs sediment.					
01 57 23 00-0005	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356).....	131.04	
Note: Up to 1.55 gallons oil, up to 40 lbs sediment.					
01 57 23 00-0006	EA		60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358).....	162.00	
Note: Up to 2.06 gallons oil, up to 40 lbs sediment.					
<b>01 58 Project Identification (01 50)</b>					
Note: Includes removal after use.					
<b>01 58 13 Temporary Project Signage (01 58)</b>					
<b>01 58 13 00-0001 Project Sign (01 58 13)</b>					
<b>01 58 13 00-0002 MDO Plywood Signs (01 58 13 00-0001)</b>					
Note: Excludes posts.					
<b>01 58 13 00-0003 Reflectorized, MDO Plywood Signs (01 58 13 00-0002)</b>					
<b>01 58 13 00-0004 Engineer Grade, Reflectorized, MDO Plywood Signs (01 58 13 00-0003)</b>					
01 58 13 00-0005	EA		Up To 8 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	169.95	23.21
For High-Intensity Grade, Add				43.24	
For Diamond Grade, Add				83.40	
01 58 13 00-0006	EA		>8 To 16 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	295.61	24.26
For High-Intensity Grade, Add				86.49	
For Diamond Grade, Add				166.79	
01 58 13 00-0007	EA		>16 To 24 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	421.27	25.31
For High-Intensity Grade, Add				129.73	
For Diamond Grade, Add				250.19	
01 58 13 00-0008	EA		>24 To 32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	546.94	26.37
For High-Intensity Grade, Add				172.97	
For Diamond Grade, Add				333.59	
01 58 13 00-0009	SF		>32 SF, One Or Two Color Design, Engineer Grade, Reflectorized, MDO Plywood Sign.....	17.13	0.84
For High-Intensity Grade, Add				5.40	
For Diamond Grade, Add				10.42	
<b>01 58 13 00-0010 Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0002)</b>					
<b>01 58 13 00-0011 One Or Two Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)</b>					
01 58 13 00-0012	EA		Up To 8 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign.....	214.03	23.21
01 58 13 00-0013	EA		>8 To 16 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign.....	256.14	24.26
01 58 13 00-0014	EA		>16 To 24 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign.....	322.06	25.31
01 58 13 00-0015	EA		>24 To 32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign.....	384.30	26.37
01 58 13 00-0016	SF		>32 SF, One Or Two Color Design, Non-Reflectorized, MDO Plywood Sign.....	12.05	0.84
<b>01 58 13 00-0017 Full Color Design, Non-Reflectorized, MDO Plywood Signs (01 58 13 00-0010)</b>					
01 58 13 00-0018	EA		Up To 8 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign.....	218.74	23.21
01 58 13 00-0019	EA		>8 To 16 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign.....	281.59	24.26
01 58 13 00-0020	EA		>16 To 24 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign.....	347.91	25.31
01 58 13 00-0021	EA		>24 To 32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign.....	406.46	26.37
01 58 13 00-0022	SF		>32 SF, Full Color Design, Non-Reflectorized, MDO Plywood Sign.....	12.74	0.84

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities and Controls</b>
	<b>01 58</b>	<b>Project Identification</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 58 13 00-0023</b>	<b>Fabricate And Install New Posts</b> <small>(01 58 13 00-0001)</small>	
	Note: Includes excavation, backfill and compaction. Excludes core drilling.	
01 58 13 00-0024 LF	Galvanized Metal Channel Sign Posts.....	18.59
01 58 13 00-0025 LF	4" x 4" Pressure Treated Wood Sign Posts .....	13.98
01 58 13 00-0026 LF	4" x 6" Pressure Treated Wood Sign Posts .....	16.87
<b>01 58 13 00-0027</b>	<b>Owner Supplied Signs</b> <small>(01 58 13 00-0001)</small>	
01 58 13 00-0028 EA	Installation And Removal Of Owner Supplied Project Sign.....	84.38

**01 60 Product Requirements** (01)

**01 66 Product Storage and Handling Requirements** (01 60)

**01 66 19 Product Handling Requirements** (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories or less than 125'.

<b>01 66 19 00-0001</b>	<b>Transfer Delivered Materials Between Floors</b> <small>(01 66 19)</small>	
	Note: For moving delivered, owner supplied or existing materials in a building.	
01 66 19 00-0002 CY	Transfer Delivered Material Between Floors Via Stairs, Per Floor.....	16.22
	Note: Quantity equals volume of materials multiplied by number of floors traveled.	
01 66 19 00-0003 CY	Transfer Delivered Material Between Floors Via Elevator, Per Trip.....	10.55
	Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.	
<b>01 66 19 00-0004</b>	<b>Transfer Delivered Materials Distances Greater Than 125'</b> <small>(01 66 19)</small>	
	Note: For moving delivered, owner supplied or existing materials in a building.	
01 66 19 00-0005 CY	Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125'.....	6.59
<b>01 66 19 00-0006</b>	<b>Transfer Demolition Debris Between Floors</b> <small>(01 66 19)</small>	
	Note: Only for use with demolition tasks.	
01 66 19 00-0007 CY	Transfer Demolition Debris Between Floors Via Stairs, Per Floor .....	16.22
	Note: Quantity equals material volume times bulk factor times number of floors traveled.	
01 66 19 00-0008 CY	Transfer Demolition Debris Between Floors Via Elevator, Per Trip .....	10.55
	Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.	
<b>01 66 19 00-0009</b>	<b>Transfer Demolition Debris Distances Greater Than 125'</b> <small>(01 66 19)</small>	
	Note: Only for use with demolition tasks.	
01 66 19 00-0010 CY	Transfer Demolition Debris Distances Greater Than 125', Per CY Of Material Per 125'.....	6.59
<b>01 66 19 00-0011</b>	<b>Moving Furniture And Furnishings</b> <small>(01 66 19)</small>	
	Note: To be used when contractor is required to move furniture and furnishings occupying 55% or more of the total floor space.	
01 66 19 00-0012 SF	Removal, Transportation, Return And Reinstallation Of Office Furniture And Furnishings .....	1.05
	Note: Includes desks, tables, file cabinets, chairs, storage boxes, bookshelves, office equipment, computers, and other furniture and furnishings. Quantity equals total floor space.	

**01 70 Execution and Closeout Requirements** (01)

**01 71 Examination and Preparation** (01 70)

**01 71 13 Mobilization** (01 71)

<b>01 71 13 00-0001</b>	<b>Equipment Delivery, Pickup, Mobilization And Demobilization</b> <small>(01 71 13)</small>	
	Note: Excludes flagman for traffic control where necessary. Per each mobilization delivery.	
01 71 13 00-0002 EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck .....	482.46
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom man lifts with up to 40' boom lengths, etc.	
01 71 13 00-0003 EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....	1,552.93
	Note: Includes loading, tie-down of equipment, delivery of equipment, off loading on site, rigging, dismantling, loading for return and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom man lifts with >40' boom lengths, etc.	
<b>01 71 13 00-0004</b>	<b>Crane Delivery, Pickup, Mobilization And Demobilization</b> <small>(01 71 13)</small>	
	Note: Includes delivery of equipment, off loading on site and rigging. Pick-up (return) includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.	
01 71 13 00-0005 EA	Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane.....	514.61
	Note: Includes delivery and pickup.	
	<i>For &gt;30 To 60 Miles Radius, Add</i>	128.65
	<i>For &gt;60 To 100 Miles Radius, Add</i>	205.84





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0006 EA >20 To 40 Ton Lift Move On/Off Cost, Hydraulic Crane ..... Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	836.26 209.07 334.50	
01 71 13 00-0007 EA >40 To 70 Ton Lift Move On/Off Cost, Hydraulic Crane ..... Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	1,157.90 289.48 463.16	
01 71 13 00-0008 EA >70 To 110 Ton Lift Move On/Off Cost, Hydraulic Crane ..... Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	1,865.49 466.37 746.20	
01 71 13 00-0009 EA >110 To 125 Ton Lift Move On/Off Cost, Hydraulic Crane ..... Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	2,341.52 585.38 936.61	
01 71 13 00-0010 EA >125 To 150 Ton Lift Move On/Off Cost, Hydraulic Crane ..... Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	2,914.03 728.51 1,165.61	
01 71 13 00-0011 EA >150 To 185 Ton Lift Move On/Off Cost, Hydraulic Crane ..... Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	3,357.88 839.47 1,343.15	
01 71 13 00-0012 EA >185 To 210 Ton Lift Move On/Off Cost, Hydraulic Crane ..... Note: Includes delivery and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	3,756.72 939.18 1,502.69	
01 71 13 00-0013 EA 75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	1,994.15 498.54 797.66	
01 71 13 00-0014 EA 100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	3,152.04 788.01 1,260.82	
01 71 13 00-0015 EA 125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	3,988.29 997.07 1,595.32	
01 71 13 00-0016 EA 150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	4,953.20 1,238.30 1,981.28	
01 71 13 00-0017 EA 200 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	6,175.43 1,543.86 2,470.17	
01 71 13 00-0018 EA 250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	7,204.67 1,801.17 2,881.87	
01 71 13 00-0019 EA 300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	10,292.38 2,573.10 4,116.95	
01 71 13 00-0020 EA 500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery, rigging and pickup. For >30 To 60 Miles Radius, Add For >60 To 100 Miles Radius, Add	14,113.42 3,528.36 5,645.37	

**01 71 23 Field Engineering** (01 71)

**01 71 23 16 Construction Surveying** (01 71 23)

**01 71 23 16-0001 Conventional Topographic Survey** (01 71 23 16)  
Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.

01 71 23 16-0002 ACR Conventional Topographic Survey Of Clear Area With Few To No Obstacles .....	1,232.43
01 71 23 16-0003 ACR Conventional Topographic Survey Of Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings).....	3,415.44
01 71 23 16-0004 ACR Conventional Topographic Survey Of Clear Area With Few Structures, And/or Wooded (5-25% Buildings).....	4,908.17
01 71 23 16-0005 ACR Conventional Topographic Survey Of Developed Areas With Several Structures (25-65% Buildings).....	7,353.37
01 71 23 16-0006 ACR Conventional Topographic Survey Of Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings) .....	9,195.93

**01 71 23 16-0007 Property Lines Survey** (01 71 23 16)  
Note: Not to be added to tasks in the "Conventional Topographic Survey" section.

01 71 23 16-0008 LF Survey Property Lines On Cleared Land .....	2.69
01 71 23 16-0009 LF Survey Property Lines On Slightly Wooded Land .....	3.12
01 71 23 16-0010 LF Survey Property Lines On Wooded Land .....	3.65

**01 71 23 16-0011 Survey Monument** (01 71 23 16)

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 70</b>	<b>Execution and Closeout Requirements</b>
	<b>01 71</b>	<b>Examination and Preparation</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0012 EA 3' Precast Survey Monument.....	197.04	
<i>For Owner Furnished Monument, Deduct</i>	-76.01	
01 71 23 16-0013 EA Precast Survey Monument Box With Cast Iron Frame And Cover.....	295.86	
01 71 23 16-0014 EA Riser Ring For Survey Monument.....	153.31	
01 71 23 16-0015 EA Adjust Survey Monument Cover To Grade .....	228.03	
<b>01 71 23 16-0016 Facade Surveying (01 71 23 16)</b>		
01 71 23 16-0017 LF Facade Survey And Reports (LF Of Facade x Number Of Floors) .....	7.39	
<b>01 71 23 16-0018 Utility Survey (01 71 23 16)</b>		
Note: This survey is only for the location of underground utilities.		
01 71 23 16-0019 ACR Survey Clear Area For Underground Utilities.....	6,241.91	
<b>01 71 23 16-0020 GPR Bridge Deck And Pavement Inspection (01 71 23 16)</b>		
<b>01 71 23 16-0021 GPR Bridge Deck And Pavement Inspection Mobilization Fee (01 71 23 16-0020)</b>		
Note: One mobilization per project.		
01 71 23 16-0022 EA GPR Bridge Deck And Pavement Inspection Mobilization Fee.....	3,772.84	
<b>01 71 23 16-0023 Bridge Deck Delamination Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)</b>		
Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0024 EA Survey Fee, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	2,905.20	
01 71 23 16-0025 SF Up To 5,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection.....	1.22	
01 71 23 16-0026 SF >5,000 To 10,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection .....	0.97	
01 71 23 16-0027 SF >10,000 To 25,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection .....	0.77	
01 71 23 16-0028 SF >25,000 To 50,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection .....	0.58	
01 71 23 16-0029 SF >50,000 To 100,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection .....	0.46	
01 71 23 16-0030 SF >100,000 To 250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection .....	0.37	
01 71 23 16-0031 SF >250,000 SF, Bridge Deck Delamination Survey, GPR Bridge Deck Inspection .....	0.27	
<b>01 71 23 16-0032 Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)</b>		
Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0033 EA Survey Fee, Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection.....	968.40	
01 71 23 16-0034 SF Depth Of Reinforcement/Overlay Thickness Survey, GPR Bridge Deck Inspection .....	0.06	
<b>01 71 23 16-0035 Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection (01 71 23 16-0020)</b>		
Note: Each project will use the Survey Fee task with a quantity of 1 and one other task for the area of the bridge deck surveyed.		
01 71 23 16-0036 EA Survey Fee, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	968.40	
01 71 23 16-0037 SF Up To 5,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection.....	0.45	
01 71 23 16-0038 SF >5,000 To 10,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection .....	0.35	
01 71 23 16-0039 SF >10,000 To 25,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection .....	0.27	
01 71 23 16-0040 SF >25,000 To 50,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection .....	0.21	
01 71 23 16-0041 SF >50,000 To 100,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection .....	0.17	
01 71 23 16-0042 SF >100,000 To 250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection .....	0.14	
01 71 23 16-0043 SF >250,000 SF, Freeze-Thaw Damage/Debonded Overlay Survey, GPR Bridge Deck Inspection .....	0.10	
<b>01 71 23 16-0044 Pavement Structure And Thickness Measurement, GPR Pavement Inspection (01 71 23 16-0020)</b>		
Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0045 LM Up To 4 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection .....	7,201.02	
01 71 23 16-0046 LM >4 To 9 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection .....	3,139.55	
01 71 23 16-0047 LM >9 To 49 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection .....	3,237.72	
01 71 23 16-0048 LM >49 To 99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection .....	1,276.35	
01 71 23 16-0049 LM >99 Lane Miles (LM), Pavement Structure And Thickness Measurement, GPR Pavement Inspection .....	1,003.26	
<b>01 71 23 16-0050 Pavement Thickness Contour (Mapping), GPR Pavement Inspection (01 71 23 16-0020)</b>		
Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0051 LM Up To 4 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....	9,163.00	
01 71 23 16-0052 LM >4 To 9 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....	4,309.38	
01 71 23 16-0053 LM >9 To 49 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....	3,273.19	
01 71 23 16-0054 LM >49 To 99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....	1,834.15	
01 71 23 16-0055 LM >99 Lane Miles (LM), Pavement Thickness Contour (Mapping), GPR Pavement Inspection .....	1,450.66	
<b>01 71 23 16-0056 Pavement Void Detection (Mapping), GPR Pavement Inspection (01 71 23 16-0020)</b>		
Note: Each project will use one task for the length of the pavement surveyed.		
01 71 23 16-0057 LM Up To 4 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....	10,880.94	



		<b>General Requirements</b>	<b>01</b>
		<b>Execution and Closeout Requirements</b>	<b>01 70</b>
		<b>Examination and Preparation</b>	<b>01 71</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0058 LM >4 To 9 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....	5,332.01	
01 71 23 16-0059 LM >9 To 49 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....	4,090.52	
01 71 23 16-0060 LM >49 To 99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....	2,322.22	
01 71 23 16-0061 LM >99 Lane Miles (LM), Pavement Void Detection (Mapping), GPR Pavement Inspection .....	1,839.96	
<b>01 71 23 16-0062 Drone Survey (Extreme Aerial Productions) (01 71 23 16)</b>		
Note: Thermographic services to electrical line grid inspections.		
<b>01 71 23 16-0063 Mobilization For Drone Surveying (01 71 23 16-0062)</b>		
01 71 23 16-0064 EA Mobilization For Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	260.36	
01 71 23 16-0065 EA Mobilization For > 1000 Acres Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing .....	650.89	
01 71 23 16-0066 EA Mobilization For Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter .....	173.57	
01 71 23 16-0067 EA Mobilization For Drone Road Survey For Topography/Progression/Inspection .....	347.14	
01 71 23 16-0068 EA Mobilization For Drone Survey Stockpile .....	173.57	
01 71 23 16-0069 EA Mobilization For Drone Inspection .....	173.57	
01 71 23 16-0070 EA Mobilization For Qualitative Drone Thermal Inspection .....	347.14	
01 71 23 16-0071 EA Mobilization For Quantitative Drone Thermal Inspection .....	433.92	
01 71 23 16-0072 EA Mobilization For Drone Agricultural Multispectral Survey.....	694.28	
01 71 23 16-0073 EA Mobilization For Drone Building Inspection/Scan/Thermal .....	520.71	
01 71 23 16-0074 EA Mobilization For Drone 3D Modelling.....	433.92	
01 71 23 16-0075 EA Mobilization For Drone Spraying Crops Or Sanitation .....	781.06	
01 71 23 16-0076 EA Mobilization For Drone Video Progression/Marketing .....	173.57	
01 71 23 16-0077 EA Mobilization For Drone Pictures Progression/Marketing .....	173.57	
01 71 23 16-0078 EA Mobilization For Drone Training, Flying, Test Prep, Equipment Checks.....	173.57	
01 71 23 16-0079 EA Mobilization For Drone Accident Reconstruction .....	173.57	
01 71 23 16-0080 EA Mobilization For Drone Landfill Survey .....	260.36	
01 71 23 16-0081 EA Mobilization For Drone Event Security Using Tethered Drones.....	347.14	
01 71 23 16-0082 EA Mobilization For Drone Emergency Response .....	867.85	
01 71 23 16-0083 EA Mobilization For Drone Cell Tower Inspection .....	260.36	
<b>01 71 23 16-0084 Drone Surveying (01 71 23 16-0062)</b>		
01 71 23 16-0085 HR Up To 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing .....	633.53	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0086 HR > 1000 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Fixed Wing.....	807.10	
For Visual Observation, Add	260.36	
For Additional Manpower, Add	208.28	
01 71 23 16-0087 HR Up To 400 Acres, Drone Survey/Topography 1/10 Or Better, Post Process Kinematic (PPK) Hexacopter.....	520.71	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0088 HR Drone Road Survey For Topography/Progression/Inspection .....	607.50	
Note: 3 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0089 HR Drone Survey Stockpile .....	433.92	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0090 HR Drone Inspection.....	607.50	
Note: 3 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0091 HR Qualitative Drone Thermal Inspection.....	694.28	
Note: 5 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0092 HR Quantitative Drone Thermal Inspection .....	1,041.42	
Note: 5 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0093 HR Drone Agricultural Multispectral Survey.....	781.06	
Note: 6 hour minimum		
For Visual Observation, Add	173.57	
For Additional Manpower, Add	173.57	
01 71 23 16-0094 HR Drone Building Inspection/Scan/Thermal.....	694.28	
Note: 3 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0095 HR Drone 3D Modelling.....	520.71	
Note: 3 hour minimum		
For Visual Observation, Add	260.36	
For Additional Manpower, Add	173.57	
01 71 23 16-0096 HR Drone Spraying Crops Or Sanitation .....	694.28	
Note: 3 hour minimum		
For Visual Observation, Add	216.96	
For Additional Manpower, Add	173.57	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 70</b>	<b>Execution and Closeout Requirements</b>
	<b>01 71</b>	<b>Examination and Preparation</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 23 16-0097	HR		Drone Video Progression/Marketing ..... Note: 2 hour minimum	347.14	
			<i>For Visual Observation, Add</i>	173.57	
			<i>For Additional Manpower, Add</i>	173.57	
01 71 23 16-0098	HR		Drone Pictures Progression/Marketing ..... Note: 2 hour minimum	260.36	
			<i>For Visual Observation, Add</i>	173.57	
			<i>For Additional Manpower, Add</i>	173.57	
01 71 23 16-0099	HR		Drone Training, Flying, Test Prep, Equipment Checks ..... Note: 3 hour minimum	520.71	
01 71 23 16-0100	HR		Drone Accident Reconstruction ..... Note: 2 hour minimum	781.06	
			<i>For Visual Observation, Add</i>	173.57	
			<i>For Additional Manpower, Add</i>	173.57	
01 71 23 16-0101	HR		Drone Landfill Survey ..... Note: 3 hour minimum	633.53	
			<i>For Visual Observation, Add</i>	173.57	
			<i>For Additional Manpower, Add</i>	173.57	
01 71 23 16-0102	HR		Drone Event Security Using Tethered Drones ..... Note: 3 hour minimum	433.92	
			<i>For Visual Observation, Add</i>	173.57	
			<i>For Additional Manpower, Add</i>	173.57	
01 71 23 16-0103	HR		Drone Emergency Response ..... Note: 3 hour minimum	433.92	
			<i>For Visual Observation, Add</i>	260.36	
			<i>For Additional Manpower, Add</i>	173.57	
01 71 23 16-0104	HR		Drone Cell Tower Inspection ..... Note: 3 hour minimum	433.92	
			<i>For Visual Observation, Add</i>	216.96	
			<i>For Additional Manpower, Add</i>	173.57	
<b>01 71 23 16-0105</b>			<b>Utilization And Deliverables For Drone Surveying</b> (01 71 23 16-0062)		
01 71 23 16-0106	Day		Utilization Of GPS Ground Control For Drone Surveying.....	433.92	
01 71 23 16-0107	Day		Utilization Of GPS Base Station Per Day For Drone Surveying.....	433.92	
01 71 23 16-0108	HR		Processing And Data Deliverables And Reporting For Drone Surveying..... Note: 2 hour minimum	173.57	
01 71 23 16-0109	HR		Processing And Data Deliverables And Reporting Of Thermal For Drone Surveying..... Note: 3 hour minimum	347.14	
<b>01 71 23 16-0110</b>			<b>Travel, Waivers, And Editing For Drone Surveying</b> (01 71 23 16-0062)		
01 71 23 16-0111	MI		Travel Over 100 Miles For Drone Surveying ..... Note: For additional miles over 100	1.00	
01 71 23 16-0112	EA		Overnight Stay Per Person For Drone Surveying .....	216.96	
01 71 23 16-0113	EA		Waiver Utilization B, C, D, And E For Drone Surveying ..... Note: Restricted airspace	86.78	
01 71 23 16-0114	EA		Night Waiver For Drone Surveying .....	112.82	
01 71 23 16-0115	EA		Flying Over People Waiver For Drone Surveying .....	173.57	
01 71 23 16-0116	EA		Beyond Visual Line Of Sight (BVLOS) Waiver For Drone Surveying.....	867.85	
01 71 23 16-0117	HR		Editing Video For Drone Surveying..... Note: 2 hour minimum	173.57	
01 71 23 16-0118	HR		Editing Pictures For Drone Surveying..... Note: 2 hour minimum	86.78	
01 71 23 16-0119	HR		Custom Post Processing For Drone Surveying..... Note: 3 hour minimum	260.36	
<b>01 71 36</b>			<b>Non-Destructive Concrete Examination</b> (01 71)		
<b>01 71 36 00-0001</b>			<b>Electromagnetic Survey</b> (01 71 36) Note: To locate voids, prior to moving heavy machinery to an area of concern, to locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt, to locate underground utilities, underground storage tanks, etc. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR).		
<b>01 71 36 00-0002</b>			<b>Electromagnetic (SIR/GPR) Survey</b> (01 71 36 00-0001)		
01 71 36 00-0003	EA		Up To 1 Hour On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,120.20	
01 71 36 00-0004	EA		>1 To 4 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	1,680.30	
01 71 36 00-0005	EA		>4 To 8 Hours On Site, Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt.....	3,360.60	
<b>01 71 36 00-0006</b>			<b>Reports And Mapping For Electromagnetic (SIR/GPR) Surveys</b> (01 71 36 00-0001)		
01 71 36 00-0007	EA		Standard Report For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes a detailed description of the scope of work, inspection methods, and equipment used. Also includes visuals such as site locations, images of data, and site photos.	373.40	
01 71 36 00-0008	EA		GPS Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes GPS coordinates of located items and reference items.	746.80	
01 71 36 00-0009	EA		CAD Mapping Of Located Utilities/Items For Electromagnetic (SIR/GPR) Survey, Earth, Concrete, Masonry Or Asphalt..... Note: Includes additions to the owner provided CAD drawing.	1,680.30	



		<b>General Requirements</b>	<b>01</b>
		<b>Execution and Closeout Requirements</b>	<b>01 70</b>
		<b>Cleaning and Waste Management</b>	<b>01 74</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 74 Cleaning and Waste Management (01 74)**

**01 74 13 Progress Cleaning (01 74)**

Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.

**01 74 13 00-0001 General (01 74 13)**

01 74 13 00-0002	CSF	Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	21.12
01 74 13 00-0003	CY	Collect Existing Debris And Load Into Truck Or Dumpster .....	24.73

Note: Per CY of debris removed.

**01 74 16 Site Maintenance (01 74)**

**01 74 16 00-0001 Parking Lot, Roads And Pathway Maintenance (01 74 16)**

Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Tasks not to be used in conjunction with related installation/demolition tasks in the Construction Task Catalog®.

**01 74 16 00-0002 Parking Lot, Road, And Street Sweeping (01 74 16 00-0001)**

01 74 16 00-0003	MSF	Sweep Parking Lot, With Street Sweeper.....	22.34
01 74 16 00-0004	MSF	Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	26.82

**01 74 16 00-0005 Runway Sweeping (01 74 16 00-0001)**

01 74 16 00-0006	MSF	Sweep Runway, With Street Sweep .....	33.53
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**01 74 19 Construction Waste Management and Disposal (01 74)**

Note: Tasks in this section shall be used as directed by owner.

**01 74 19 00-0001 Debris Chutes (01 74 19)**

Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.

**01 74 19 00-0002 Steel Temporary Debris Chutes (01 74 19 00-0001)**

01 74 19 00-0003	LF	18" Diameter, Steel Temporary Debris Chute.....	42.05
01 74 19 00-0004	LF	30" Diameter, Steel Temporary Debris Chute.....	63.77

**01 74 19 00-0005 Plastic Temporary Debris Chutes (01 74 19 00-0001)**

01 74 19 00-0006	LF	24" Diameter, Plastic Temporary Debris Chute .....	16.65
		<i>For Steel Liner, Add</i>	3.27
01 74 19 00-0007	LF	30" Diameter, Plastic Temporary Debris Chute .....	19.08
		<i>For Steel Liner, Add</i>	3.75
01 74 19 00-0008	LF	36" Diameter, Plastic Temporary Debris Chute .....	21.51
		<i>For Steel Liner, Add</i>	4.23

**01 74 19 00-0009 Wood Temporary Debris Chutes (01 74 19 00-0001)**

01 74 19 00-0010	LF	4' x 4', Wood Temporary Debris Chute .....	32.86
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Note: Includes fabrication and installation.

**01 74 19 00-0011 Construction Dumpsters Rental (01 74 19)**

Note: Includes service to delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Use modifier for excess tons up to legal state limit. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides and pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.

01 74 19 00-0012	EA	10 CY Dumpster (1.5 Ton) "Construction Debris".....	587.50
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0013	EA	15 CY Dumpster (2 Ton) "Construction Debris".....	634.98
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0014	EA	20 CY Dumpster (3 Ton) "Construction Debris".....	685.00
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0015	EA	30 CY Dumpster (4 Ton) "Construction Debris".....	734.96
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0016	EA	40 CY Dumpster (6 Ton) "Construction Debris".....	814.98
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.	
		<i>For Each Ton Over Indicated Amount, Add</i>	95.00
01 74 19 00-0017	EA	10 CY Low-Boy Dumpster "Concrete Or Asphalt Only" .....	714.85
		Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.	
01 74 19 00-0018	EA	15 CY Low-Boy Dumpster Clean Recyclable .....	780.05
		Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	
01 74 19 00-0019	EA	15 CY Low-Boy Dumpster Mixed Recyclable .....	838.26
		Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 70</b>	<b>Execution and Closeout Requirements</b>
	<b>01 74</b>	<b>Cleaning and Waste Management</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 74 19 00-020</b>	<b>Concrete Washout Service <small>(01 74 19)</small></b>	
01 74 19 00-0021 MO Rampless Concrete Washout Bin.....	589.50	
Note: Includes delivery.		
01 74 19 00-0022 MO Ramped Concrete Washout Bin.....	707.40	
Note: Includes delivery.		
01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin.....	617.19	
Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin.....	1,337.24	
Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		
<b>01 74 19 00-025</b>	<b>Debris Processing Fee <small>(01 74 19)</small></b>	
<b>01 74 19 00-0026</b>	<b>Material Recycling Fees <small>(01 74 19 00-0025)</small></b>	
Note: Not to be used with Dumpster Tasks which includes the Landfill Dump Fee. Excludes hauling.		
01 74 19 00-0027 CY Drop-Off Asphalt At Recycling Center.....	46.33	
01 74 19 00-0028 CY Drop-Off Non-Reinforced Concrete At Recycling Center.....	62.07	
01 74 19 00-0029 CY Drop-Off Reinforced Concrete At Recycling Center.....	93.10	
01 74 19 00-0030 CY Drop-Off Brick Or Block At Recycling Center.....	80.69	
01 74 19 00-0031 CY Drop-Off Dirt At Recycling Center.....	90.00	
01 74 19 00-0032 CY Drop-Off Dimensional Lumber At Recycling Center.....	86.90	
<b>01 74 19 00-0033</b>	<b>Landfill Dump Fees <small>(01 74 19 00-0025)</small></b>	
Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0039 for hauling.		
01 74 19 00-0034 CY Traditional Building Construction Materials Landfill Dump Fee.....	41.30	
01 74 19 00-0035 TON Traditional Building Construction Materials, Landfill Dump Fee.....	180.00	
01 74 19 00-0036 CY Trees, Stumps And Brush, Landfill Dump Fee.....	49.72	
01 74 19 00-0037 CY Hazardous Materials And Rubbish Landfill Dump Fee.....	118.56	
Note: Includes regulated waste such as paint cans, refrigerators/freezers, air conditioners, smoke detectors, batteries, etc.		
01 74 19 00-0038 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee.....	84.24	
<b>01 74 19 00-0039</b>	<b>Hauling <small>(01 74 19)</small></b>	
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0040 CYM Hauling On Paved Roads, First 15 Miles.....	1.00	
01 74 19 00-0041 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.67	
01 74 19 00-0042 CYM Hauling On Unimproved Roads, First 15 Miles.....	1.53	
01 74 19 00-0043 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	1.20	
<b>01 74 23</b>	<b>Final Cleaning <small>(01 74)</small></b>	
<b>01 74 23 00-0001</b>	<b>Cleaning Of Glass <small>(01 74 23)</small></b>	
01 74 23 00-0002 CSF Cleaning Of Existing Glass Surfaces.....	29.03	

**END OF SECTION 01**



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
Assessment	02 20	
Existing Material Assessment	02 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 02 Existing Conditions

### 02 20 Assessment <sup>(02)</sup>

#### 02 25 Existing Material Assessment <sup>(02 20)</sup>

##### 02 25 16 Existing Concrete, Masonry or Asphalt Assessment <sup>(02 25)</sup>

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

##### 02 25 16 13 Concrete Assessment Drilling <sup>(02 25 16)</sup>

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

### 02 30 Subsurface Investigation <sup>(02)</sup>

#### 02 32 Geotechnical Investigations <sup>(02 30)</sup>

##### 02 32 13 Subsurface Drilling and Sampling <sup>(02 32)</sup>

See CSI section 01 45 23 00-0000 for testing and lab reports.

##### 02 32 13 00-0001 Mobilization Of Drilling Crew <sup>(02 32 13)</sup>

02 32 13 00-0002 EA Mobilization Of Drilling Crew ..... 1,187.09

##### 02 32 13 00-0003 Auger Borings <sup>(02 32 13)</sup>

02 32 13 00-0004 LF Standard Auger Hole With Split Spoon Sample At 5' Intervals ..... 35.75

##### 02 32 13 00-0005 Cased Borings In Earth, With Samples <sup>(02 32 13)</sup>

Note: All types of soils.

02 32 13 00-0006 LF 2-1/2" Diameter Cased Borings In Earth, With Samples ..... 93.25

02 32 13 00-0007 LF 4" Diameter Cased Borings In Earth, With Samples ..... 159.48

##### 02 32 13 00-0008 Drilling In Rock, BW Core (2.125") <sup>(02 32 13)</sup>

02 32 13 00-0009 LF Drill In Rock, BW Core, With Casing ..... 98.42

Note: Includes sampling.

02 32 13 00-0010 EA Drill In Rock, With BW Core Boxes ..... 9.37

##### 02 32 13 00-0011 Drilling In Rock, NW Core (2.98") <sup>(02 32 13)</sup>

02 32 13 00-0012 LF Drill In Rock, NW Core, With Casing ..... 127.32

Note: Includes sampling.

02 32 13 00-0013 EA Drill In Rock, With NW Core Boxes ..... 10.78

##### 02 32 13 00-0014 Test Pits For Boring Activities <sup>(02 32 13)</sup>

Note: Excludes backfill. See CSI section 31 23 16 36-0016 for backfill.

##### 02 32 13 00-0015 Backhoe Dug Test Pits <sup>(02 32 13 00-0014)</sup>

02 32 13 00-0016 CY Excavation For Test Pit, Light Material, Backhoe Excavation ..... 67.61

02 32 13 00-0017 CY Excavation For Test Pits, Medium Material, Backhoe Excavation ..... 78.88

02 32 13 00-0018 CY Excavation For Test Pit, Heavy Material, Backhoe Excavation ..... 105.17

##### 02 32 13 00-0019 Hand-Dug Test Pits <sup>(02 32 13 00-0014)</sup>

02 32 13 00-0020 CY Excavation For Test Pit, Light Soil, Hand Excavation ..... 187.47

02 32 13 00-0021 CY Excavation For Test Pit, Heavy Soil, Hand Excavation ..... 337.44

##### 02 32 13 00-0022 Shelby Tube Sampling <sup>(02 32 13)</sup>

02 32 13 00-0023 EA Shelby Tube Sampling ..... 53.94

02 32 13 00-0024 EA Penetration Test ..... 43.95

##### 02 32 13 00-0025 Grouting <sup>(02 32 13)</sup>

02 32 13 00-0026 VLF Boreholes ..... 10.23

#### 02 32 19 Exploratory Excavations <sup>(02 32)</sup>

##### 02 32 19 00-0001 Hydro Excavation <sup>(02 32 19)</sup>

Note: Assumes on-site disposal.

02 32 19 00-0002 EA Hydro Excavation, Mobilization/Demobilization ..... 167.57

02 32 19 00-0003 EA Hydro Excavation, Minimum Charge ..... 670.27

Note: For projects where the total charge is less than the "Hydro Excavation Minimum" cost, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.

02 32 19 00-0004 CY Hydro Excavation, Normal Soil Conditions (Hydro-Vac Truck) ..... 37.23

Note: Normal soil conditions consist of silt, sand and gravel.

<b>02</b>	<b>02 Existing Conditions</b>
	<b>02 30 Subsurface Investigation</b>
	<b>02 32 Geotechnical Investigations</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 32 19 00-0005 CY Hydro Excavation, Adverse Soil Conditions (Hydro-Vac Truck).....59.58  
 Note: Adverse soil conditions consist of clay, glacial till and rocks.

**02 40 Demolition and Structure Moving** (02)

**02 41 Demolition** (02 40)

**02 41 13 Selective Site Demolition** (02 41)

**02 41 13 13 Paving Removal** (02 41 13)

**02 41 13 13-0001 By Machine, Break-up And Leave In Place Bituminous And Concrete Paving** (02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving .....	7.24
		<i>For &gt;500 To 1,000, Deduct</i>	-0.72
		<i>For &gt;1,000 To 2,500, Deduct</i>	-1.30
		<i>For &gt;2,500 To 5,000, Deduct</i>	-1.88
		<i>For &gt;5,000 To 10,000, Deduct</i>	-2.46
		<i>For &gt;10,000, Deduct</i>	-3.04
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving .....	10.85
		<i>For &gt;500 To 1,000, Deduct</i>	-1.09
		<i>For &gt;1,000 To 2,500, Deduct</i>	-1.95
		<i>For &gt;2,500 To 5,000, Deduct</i>	-2.82
		<i>For &gt;5,000 To 10,000, Deduct</i>	-3.69
		<i>For &gt;10,000, Deduct</i>	-4.56
02 41 13 13-0004	SY	>6" To 9" By Machine, Break-up And Leave In Place Bituminous Paving .....	14.47
		<i>For &gt;500 To 1,000, Deduct</i>	-1.45
		<i>For &gt;1,000 To 2,500, Deduct</i>	-2.60
		<i>For &gt;2,500 To 5,000, Deduct</i>	-3.76
		<i>For &gt;5,000 To 10,000, Deduct</i>	-4.92
		<i>For &gt;10,000, Deduct</i>	-6.08
02 41 13 13-0005	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving .....	14.05
		<i>For &gt;500 To 1,000, Deduct</i>	-1.41
		<i>For &gt;1,000 To 2,500, Deduct</i>	-2.53
		<i>For &gt;2,500 To 5,000, Deduct</i>	-3.65
		<i>For &gt;5,000 To 10,000, Deduct</i>	-4.78
		<i>For &gt;10,000, Deduct</i>	-5.90
02 41 13 13-0006	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving .....	19.85
		<i>For &gt;500 To 1,000, Deduct</i>	-1.99
		<i>For &gt;1,000 To 2,500, Deduct</i>	-3.57
		<i>For &gt;2,500 To 5,000, Deduct</i>	-5.16
		<i>For &gt;5,000 To 10,000, Deduct</i>	-6.75
		<i>For &gt;10,000, Deduct</i>	-8.34
02 41 13 13-0007	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving .....	28.11
		<i>For &gt;500 To 1,000, Deduct</i>	-2.81
		<i>For &gt;1,000 To 2,500, Deduct</i>	-5.06
		<i>For &gt;2,500 To 5,000, Deduct</i>	-7.31
		<i>For &gt;5,000 To 10,000, Deduct</i>	-9.56
		<i>For &gt;10,000, Deduct</i>	-11.81
02 41 13 13-0008	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving .....	39.68
		<i>For &gt;500 To 1,000, Deduct</i>	-3.97
		<i>For &gt;1,000 To 2,500, Deduct</i>	-7.14
		<i>For &gt;2,500 To 5,000, Deduct</i>	-10.32
		<i>For &gt;5,000 To 10,000, Deduct</i>	-13.49
		<i>For &gt;10,000, Deduct</i>	-16.67
02 41 13 13-0009	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving .....	51.89
		<i>For &gt;500 To 1,000, Deduct</i>	-5.19
		<i>For &gt;1,000 To 2,500, Deduct</i>	-9.34
		<i>For &gt;2,500 To 5,000, Deduct</i>	-13.49
		<i>For &gt;5,000 To 10,000, Deduct</i>	-17.64
		<i>For &gt;10,000, Deduct</i>	-21.79
02 41 13 13-0010	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving .....	67.46
		<i>For &gt;500 To 1,000, Deduct</i>	-6.75
		<i>For &gt;1,000 To 2,500, Deduct</i>	-12.14
		<i>For &gt;2,500 To 5,000, Deduct</i>	-17.54
		<i>For &gt;5,000 To 10,000, Deduct</i>	-22.94
		<i>For &gt;10,000, Deduct</i>	-28.33

**02 41 13 13-0011 By Hand, Break-up And Leave In Place Bituminous And Concrete Paving** (02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting (where required) and disposal. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0012	SF	Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving .....	1.74
02 41 13 13-0013	SF	>3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving .....	2.21
02 41 13 13-0014	SF	>6" To 9" By Hand, Break-up And Leave In Place Bituminous Paving .....	2.92
02 41 13 13-0015	SF	Up To 3" By Hand, Break-up And Leave In Place Concrete Paving .....	2.18





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0016	SF		>3" To 6" By Hand, Break-up And Leave In Place Concrete Paving .....	2.77	
02 41 13 13-0017	SF		>6" To 9" By Hand, Break-up And Leave In Place Concrete Paving .....	3.65	
<b>02 41 13 13-0018</b>			<b>By Machine, Break-up And Remove Bituminous And Concrete Paving</b> (02 41 13 13) <small>Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0001 for saw cutting.</small>		
02 41 13 13-0019	SY		Up To 3" By Machine, Break-up And Remove Bituminous Paving .....	15.68	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	4.70	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	7.84	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.57	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-2.82	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-4.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-5.33	
			<i>For &gt;10,000, Deduct</i>	-6.59	
02 41 13 13-0020	SY		>3" To 6" By Machine, Break-up And Remove Bituminous Paving .....	21.41	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	6.42	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	10.71	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.14	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-3.85	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-5.57	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-7.28	
			<i>For &gt;10,000, Deduct</i>	-8.99	
02 41 13 13-0021	SY		>6" To 9" By Machine, Break-up And Remove Bituminous Paving .....	29.71	
			<i>For Elevated Slab, Add</i>	14.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.97	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-5.35	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-7.72	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-10.10	
			<i>For &gt;10,000, Deduct</i>	-12.48	
02 41 13 13-0022	SY		>9" To 12" By Machine, Break-up And Remove Bituminous Paving .....	38.77	
			<i>For Elevated Slab, Add</i>	19.39	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.88	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-6.98	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-10.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-13.18	
			<i>For &gt;10,000, Deduct</i>	-16.28	
02 41 13 13-0023	SY		>12" To 15" By Machine, Break-up And Remove Bituminous Paving .....	53.97	
			<i>For Elevated Slab, Add</i>	26.99	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.40	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-9.71	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-14.03	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-18.35	
			<i>For &gt;10,000, Deduct</i>	-22.67	
02 41 13 13-0024	SY		Up To 3" By Machine, Break-up And Remove Non-Reinforced Concrete Paving .....	18.04	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	5.41	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	9.02	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.80	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-3.25	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-4.69	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-6.13	
			<i>For &gt;10,000, Deduct</i>	-7.58	
02 41 13 13-0025	SY		>3" To 6" By Machine, Break-up And Remove Non-Reinforced Concrete Paving .....	23.61	
			<i>For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add</i>	7.08	
			<i>Note: (Around Existing Structures And Obstructions), Add</i>		
			<i>For Elevated Slab, Add</i>	11.81	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.36	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-4.25	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-6.14	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-8.03	
			<i>For &gt;10,000, Deduct</i>	-9.92	
02 41 13 13-0026	SY		>6" To 9" By Machine, Break-up And Remove Non-Reinforced Concrete Paving .....	42.16	
			<i>For Elevated Slab, Add</i>	21.08	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.22	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-7.59	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-10.96	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-14.33	
			<i>For &gt;10,000, Deduct</i>	-17.71	
02 41 13 13-0027	SY		>9" To 14" By Machine, Break-up And Remove Non-Reinforced Concrete Paving .....	55.08	
			<i>For Elevated Slab, Add</i>	27.54	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.51	
			<i>For &gt;1,000 To 2,500, Deduct</i>	-9.91	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-14.32	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-18.73	
			<i>For &gt;10,000, Deduct</i>	-23.13	

**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0028 SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	23.95	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	7.19	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	11.98	
For >500 To 1,000, Deduct	-2.40	
For >1,000 To 2,500, Deduct	-4.31	
For >2,500 To 5,000, Deduct	-6.23	
For >5,000 To 10,000, Deduct	-8.14	
For >10,000, Deduct	-10.06	
02 41 13 13-0029 SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	31.03	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	9.31	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	15.52	
For >500 To 1,000, Deduct	-3.10	
For >1,000 To 2,500, Deduct	-5.59	
For >2,500 To 5,000, Deduct	-8.07	
For >5,000 To 10,000, Deduct	-10.55	
For >10,000, Deduct	-13.03	
02 41 13 13-0030 SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	51.44	
For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	15.43	
Note: (Around Existing Structures And Obstructions), Add		
For Elevated Slab, Add	25.72	
For >500 To 1,000, Deduct	-5.14	
For >1,000 To 2,500, Deduct	-9.26	
For >2,500 To 5,000, Deduct	-13.37	
For >5,000 To 10,000, Deduct	-17.49	
For >10,000, Deduct	-21.60	
02 41 13 13-0031 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	25.97	
For Elevated Slab, Add	12.99	
For >500 To 1,000, Deduct	-2.60	
For >1,000 To 2,500, Deduct	-4.67	
For >2,500 To 5,000, Deduct	-6.75	
For >5,000 To 10,000, Deduct	-8.83	
For >10,000, Deduct	-10.91	
02 41 13 13-0032 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	33.39	
For Elevated Slab, Add	16.70	
For >500 To 1,000, Deduct	-3.34	
For >1,000 To 2,500, Deduct	-6.01	
For >2,500 To 5,000, Deduct	-8.68	
For >5,000 To 10,000, Deduct	-11.35	
For >10,000, Deduct	-14.02	
02 41 13 13-0033 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	59.70	
For Elevated Slab, Add	29.85	
For >500 To 1,000, Deduct	-5.97	
For >1,000 To 2,500, Deduct	-10.75	
For >2,500 To 5,000, Deduct	-15.52	
For >5,000 To 10,000, Deduct	-20.30	
For >10,000, Deduct	-25.07	
02 41 13 13-0034 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	77.91	
For Elevated Slab, Add	38.96	
For >500 To 1,000, Deduct	-7.79	
For >1,000 To 2,500, Deduct	-14.02	
For >2,500 To 5,000, Deduct	-20.26	
For >5,000 To 10,000, Deduct	-26.49	
For >10,000, Deduct	-32.72	
02 41 13 13-0035 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	101.86	
For Elevated Slab, Add	50.93	
For >500 To 1,000, Deduct	-10.19	
For >1,000 To 2,500, Deduct	-18.33	
For >2,500 To 5,000, Deduct	-26.48	
For >5,000 To 10,000, Deduct	-34.63	
For >10,000, Deduct	-42.78	
02 41 13 13-0036 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	123.62	
For Elevated Slab, Add	61.81	
For >500 To 1,000, Deduct	-12.36	
For >1,000 To 2,500, Deduct	-22.25	
For >2,500 To 5,000, Deduct	-32.14	
For >5,000 To 10,000, Deduct	-42.03	
For >10,000, Deduct	-51.92	

**02 41 13 13-0037 By Hand, Break-up And Remove Bituminous And Concrete Paving** (02 41 13 13)

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting (where required) and disposal. See CSI section 02 41 19 13-0001 for saw cutting.

02 41 13 13-0038 SF Up To 3" By Hand, Break-up And Remove Bituminous Paving.....	3.88	
02 41 13 13-0039 SF >3" To 6" By Hand, Break-up And Remove Bituminous Paving.....	5.11	
02 41 13 13-0040 SF >6" To 9" By Hand, Break-up And Remove Bituminous Paving.....	6.65	
02 41 13 13-0041 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	4.86	
02 41 13 13-0042 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	6.71	
02 41 13 13-0043 SF >6" To 9" By Hand, Break-up And Remove Concrete Paving.....	8.59	
02 41 13 13-0044 SF Up To 3" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	6.80	
02 41 13 13-0045 SF >3" To 6" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	9.38	
02 41 13 13-0046 SF >6" To 9" By Hand, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	12.02	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>02 41 13 13-0047 Grind Concrete</b> <small>(02 41 13 13)</small>	
02 41 13 13-0048	EA Grind Existing Sidewalks, Up To 1/2" Depth, To Remove Ridges (Tripping Hazard).....249.70 Note: For each location up to 5' wide, feather up to 12" each direction. <i>For &gt;1/2" To 1" Depth Of Grinding, Add</i> 37.46 <i>For &gt;1" To 1-1/2" Depth Of Grinding, Add</i> 62.43 <i>For Up To 5, Add</i> 49.94 <i>For &gt;5 To 10, Add</i> 24.97 <i>For &gt;25 To 50, Deduct</i> -24.97 <i>For &gt;50 To 250, Deduct</i> -37.46 <i>For &gt;250, Deduct</i> -49.94 <i>For Sidewalks &gt;5', Add</i> 24.97 <i>For Up To 12" Additional Feathering Per Side, Add</i> 24.97

<b>02 41 13 15 Hydro Demolition</b> <small>(02 41 13)</small>	
<b>02 41 13 15-0001 Hydro Demolition Of Concrete Pavement</b> <small>(02 41 13 15)</small>	
Note: Includes removal but excludes disposal of concrete.	
02 41 13 15-0002	SF Up To 2" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....7.54
02 41 13 15-0003	SF >2" To 4" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....9.43
02 41 13 15-0004	SF >4" To 6" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....12.61
02 41 13 15-0005	SF >6" To 8" Depth, Hydro Demolition, Using 40,000 PSI Water Jet.....25.11

<b>02 41 16 Structure Demolition</b> <small>(02 41)</small>	
<b>02 41 16 13 Building Demolition</b> <small>(02 41 16)</small>	
<b>02 41 16 13-0001 Building Interior Demolition</b> <small>(02 41 16 13)</small>	
Note: Guttled and placed in truck or dumpsters. Based on overall floor area square foot or Gross Square Foot (GSF) including flooring under interior demolished walls. Includes all soft stripping of materials (doors and frames, non-load bearing walls, carpet, moldings, drywall, tile, ceiling, ductwork, piping, light fixtures, etc.), accessible mechanical, electrical, plumbing, overhead sprinkler, fire protection and similar systems. Excludes lead, asbestos or other contaminants or load bearing walls, mechanical, plumbing or electrical equipment such as furnaces, water heaters, plumbing fixtures, sump pumps, switchgear or panel boards. Excludes hauling, dump fees, recycling charges, and/or salvage value.	
02 41 16 13-0002	GSF Residential Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck .....7.90
02 41 16 13-0003	GSF Up To 2,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck.....11.94
02 41 16 13-0004	GSF >2,000 To 10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck .....9.77
02 41 16 13-0005	GSF >10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck .....8.68

<b>02 41 16 13-0006 Commercial And Residential Structures Demolition</b> <small>(02 41 16 13)</small>	
Note: Complete demolition of structures. Includes site and building safety preparation, signage, dust control, scattered debris and other site clean-up, demolition equipment, and repair of any damaged adjacent property. Excludes (if required) utility disconnects and capping, underground or above ground storage tank removal, adjacent property protection, adjacent property cleanup, adjacent property work, site paving (asphalt or concrete), recycling fees, gutting/soft stripping (selective removal of materials for reuse) of building, site security, hazardous material abatement (including lead, asbestos, and PCBs), surveys, clearing and grubbing of site, cranes, traffic control, elevator removal, major mechanical equipment such as boilers, chillers, cooling towers, Etc., excavation or backfill, foundations, basement floor, slab-on grade, temporary fencing (installation and removal), hauling, disposal and dump fees for all debris (site and building), earthwork and erosion control. Pricing is by Hundred Cubic Foot (CCF) of complete building volume being demolished. For computing building volume, height is computed at actual floor-to-floor dimensions with attic and basement each computed at half-height, width and length are actual dimensions. Excludes salvage value.	

<b>02 41 16 13-0007 Steel Framed Building Demolition</b> <small>(02 41 16 13-0006)</small>	
Note: Includes masonry partitions and concrete decks.	
02 41 16 13-0008	CCF By Pneumatic Tools/Hand, Steel Framed Building Demolition .....74.04 <i>For Floor-To-Floor (Or Floor-To-Structure) Heights &gt;12' To 15', Deduct</i> -5.55 <i>For Floor-To-Floor (Or Floor-To-Structure) Heights &gt;15' To 18', Deduct</i> -11.11 <i>For Floor-To-Floor (Or Floor-To-Structure) Heights &gt;18' To 21', Deduct</i> -16.66 <i>For Up To 500, Add</i> 22.21 <i>For &gt;500 To 1,000, Add</i> 14.81 <i>For &gt;1,000 To 2,000, Add</i> 7.40 <i>For Volume Of Area Within 15' To An Adjacent Building, Add</i> 24.43 <i>For No Interior Partitions, Deduct</i> -18.51
02 41 16 13-0009	CCF By Machine, Steel Framed Building Demolition.....46.58 <i>For Floor-To-Floor (Or Floor-To-Structure) Heights &gt;12' To 15', Deduct</i> -3.49 <i>For Floor-To-Floor (Or Floor-To-Structure) Heights &gt;15' To 18', Deduct</i> -6.99 <i>For Floor-To-Floor (Or Floor-To-Structure) Heights &gt;18' To 21', Deduct</i> -10.48 <i>For Up To 500, Add</i> 13.97 <i>For &gt;500 To 1,000, Add</i> 9.32 <i>For &gt;1,000 To 2,000, Add</i> 4.66 <i>For Work &gt;3 Stories To 6 Stories (Exclude Volume Below), Add</i> 6.99 <i>For Work &gt;6 Stories To 10 Stories (Exclude Volume Below), Add</i> 11.65 <i>For Work &gt;10 Stories To 15 Stories (Exclude Volume Below), Add</i> 16.30 <i>For Volume Of Area Within 15' To An Adjacent Building, Add</i> 15.37 <i>For No Interior Partitions, Deduct</i> -11.65

02 41 16 13-0010	<b>Reinforced Concrete Building Demolition</b> <small>(02 41 16 13-0006)</small>
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**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0011 CCF By Pneumatic Tools/Hand, Reinforced Concrete Building Demolition .....	92.90	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-6.97	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-13.94	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-20.90	
For Up To 500, Add	27.87	
For >500 To 1,000, Add	18.58	
For >1,000 To 2,000, Add	9.29	
For Volume Of Area Within 15' To An Adjacent Building, Add	30.66	
For No Interior Partitions, Deduct	-23.23	
02 41 16 13-0012 CCF By Machine, Reinforced Concrete Building Demolition.....	61.50	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.61	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-9.23	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-13.84	
For Up To 500, Add	18.45	
For >500 To 1,000, Add	12.30	
For >1,000 To 2,000, Add	6.15	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	9.23	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	15.38	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	21.53	
For Volume Of Area Within 15' To An Adjacent Building, Add	20.30	
For No Interior Partitions, Deduct	-15.38	
<b>02 41 16 13-0013 Masonry Construction Building Demolition (02 41 16 13-0006)</b> .....	<b>65.28</b>	
02 41 16 13-0014 CCF By Pneumatic Tools/Hand, Masonry Construction Building Demolition .....	65.28	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.90	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-9.79	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-14.69	
For Up To 500, Add	19.58	
For >500 To 1,000, Add	13.06	
For >1,000 To 2,000, Add	6.53	
For Volume Of Area Within 15' To An Adjacent Building, Add	21.54	
For No Interior Partitions, Deduct	-16.32	
02 41 16 13-0015 CCF By Machine, Masonry Construction Building Demolition.....	41.80	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.14	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-6.27	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-9.41	
For Up To 500, Add	12.54	
For >500 To 1,000, Add	8.36	
For >1,000 To 2,000, Add	4.18	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	6.27	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	10.45	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	14.63	
For Volume Of Area Within 15' To An Adjacent Building, Add	13.79	
For No Interior Partitions, Deduct	-10.45	
<b>02 41 16 13-0016 Wood Frame Construction Building Demolition (02 41 16 13-0006)</b> .....	<b>56.74</b>	
02 41 16 13-0017 CCF By Pneumatic Tools/Hand, Wood Frame Construction Building Demolition .....	56.74	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.26	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-8.51	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-12.77	
For Up To 500, Add	17.02	
For >500 To 1,000, Add	11.35	
For >1,000 To 2,000, Add	5.67	
For Volume Of Area Within 15' To An Adjacent Building, Add	18.72	
For No Interior Partitions, Deduct	-14.19	
02 41 16 13-0018 CCF By Machine, Wood Frame Construction Building Demolition .....	35.77	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-2.68	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-5.37	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-8.05	
For Up To 500, Add	10.73	
For >500 To 1,000, Add	7.15	
For >1,000 To 2,000, Add	3.58	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	5.37	
For Volume Of Area Within 15' To An Adjacent Building, Add	11.80	
For No Interior Partitions, Deduct	-8.94	
<b>02 41 16 13-0019 Sorting Of Material Debris For Recycling Prior To Hauling Off (02 41 16 13-0006)</b> .....	<b>9.27</b>	
Note: Per building volume.		
02 41 16 13-0020 CCF Sorting Of Material Debris For Recycling Prior To Hauling Off .....	9.27	
For Up To 500, Add	2.78	
For >500 To 1,000, Add	1.85	
For >1,000 To 2,000, Add	0.93	
<b>02 41 16 13-0021 Foundation Demolition (02 41 16 13)</b> .....		
Note: Excludes earthwork. See CSI section 31 00 00 00-0000 for earthwork.		
<b>02 41 16 13-0022 Concrete Foundation Demolition (02 41 16 13-0021)</b> .....		
02 41 16 13-0023 CF Non-Reinforced Concrete Foundation Demolition .....	14.61	
For >135 To 405, Deduct	-1.28	
For >405 To 810, Deduct	-2.56	
For >810 To 2025, Deduct	-3.65	
For >2025, Deduct	-5.84	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0024	CF			Reinforced Concrete Foundation Demolition .....	17.53	
				<i>For &gt;135 To 405, Deduct</i>	-1.53	
				<i>For &gt;405 To 810, Deduct</i>	-3.07	
				<i>For &gt;810 To 2025, Deduct</i>	-4.38	
				<i>For &gt;2025, Deduct</i>	-7.01	
<b>02 41 16 13-0025</b>				<b>Concrete Foundation Wall Demolition</b> <small>(02 41 16 13-0021)</small>		
02 41 16 13-0026	SF			4" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	6.26	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.47	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-1.25	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-2.19	
				<i>For &gt;8,000, Deduct</i>	-3.44	
02 41 16 13-0027	SF			6" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	8.35	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.63	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-1.67	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-2.92	
				<i>For &gt;8,000, Deduct</i>	-4.59	
02 41 16 13-0028	SF			8" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	10.43	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.78	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-2.09	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-3.65	
				<i>For &gt;8,000, Deduct</i>	-5.74	
02 41 16 13-0029	SF			10" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	12.52	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.94	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-2.50	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-4.38	
				<i>For &gt;8,000, Deduct</i>	-6.89	
02 41 16 13-0030	SF			12" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	14.61	
				<i>For &gt;500 To 2,000, Deduct</i>	-1.10	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-2.92	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-5.11	
				<i>For &gt;8,000, Deduct</i>	-8.04	
02 41 16 13-0031	SF			16" Thick Non-Reinforced Concrete Foundation Wall Demolition.....	16.70	
				<i>For &gt;500 To 2,000, Deduct</i>	-1.25	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-3.34	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-5.85	
				<i>For &gt;8,000, Deduct</i>	-9.19	
02 41 16 13-0032	SF			4" Thick Reinforced Concrete Foundation Wall Demolition .....	7.51	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.56	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-1.50	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-2.63	
				<i>For &gt;8,000, Deduct</i>	-4.13	
02 41 16 13-0033	SF			6" Thick Reinforced Concrete Foundation Wall Demolition .....	10.01	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.75	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-2.00	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-3.50	
				<i>For &gt;8,000, Deduct</i>	-5.51	
02 41 16 13-0034	SF			8" Thick Reinforced Concrete Foundation Wall Demolition .....	12.52	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.94	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-2.50	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-4.38	
				<i>For &gt;8,000, Deduct</i>	-6.89	
02 41 16 13-0035	SF			10" Thick Reinforced Concrete Foundation Wall Demolition .....	14.81	
				<i>For &gt;500 To 2,000, Deduct</i>	-1.11	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-2.96	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-5.18	
				<i>For &gt;8,000, Deduct</i>	-8.15	
02 41 16 13-0036	SF			12" Thick Reinforced Concrete Foundation Wall Demolition .....	17.53	
				<i>For &gt;500 To 2,000, Deduct</i>	-1.31	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-3.51	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-6.14	
				<i>For &gt;8,000, Deduct</i>	-9.64	
02 41 16 13-0037	SF			16" Thick Reinforced Concrete Foundation Wall Demolition .....	20.03	
				<i>For &gt;500 To 2,000, Deduct</i>	-1.50	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-4.01	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-7.01	
				<i>For &gt;8,000, Deduct</i>	-11.02	
<b>02 41 16 13-0038</b>				<b>Concrete Block Foundation Wall Demolition</b> <small>(02 41 16 13-0021)</small>		
02 41 16 13-0039	SF			4" Thick Non-Reinforced Concrete Block Foundation Wall Demolition.....	4.60	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.35	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-0.92	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-1.61	
				<i>For &gt;8,000, Deduct</i>	-2.53	
02 41 16 13-0040	SF			6" Thick Non-Reinforced Concrete Block Foundation Wall Demolition.....	4.90	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.37	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-0.98	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-1.72	
				<i>For &gt;8,000, Deduct</i>	-2.70	
02 41 16 13-0041	SF			8" Thick Non-Reinforced Concrete Block Foundation Wall Demolition.....	5.53	
				<i>For &gt;500 To 2,000, Deduct</i>	-0.41	
				<i>For &gt;2,000 To 6,000, Deduct</i>	-1.11	
				<i>For &gt;6,000 To 8,000, Deduct</i>	-1.94	
				<i>For &gt;8,000, Deduct</i>	-3.04	

**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0042 SF 10" Thick Non-Reinforced Concrete Block Foundation Wall Demolition .....	6.36	
For >500 To 2,000, Deduct	-0.48	
For >2,000 To 6,000, Deduct	-1.27	
For >6,000 To 8,000, Deduct	-2.23	
For >8,000, Deduct	-3.50	
02 41 16 13-0043 SF 12" Thick Non-Reinforced Concrete Block Foundation Wall Demolition .....	7.10	
For >500 To 2,000, Deduct	-0.53	
For >2,000 To 6,000, Deduct	-1.42	
For >6,000 To 8,000, Deduct	-2.49	
For >8,000, Deduct	-3.91	
02 41 16 13-0044 SF 16" Thick Non-Reinforced Concrete Block Foundation Wall Demolition .....	8.87	
For >500 To 2,000, Deduct	-0.67	
For >2,000 To 6,000, Deduct	-1.77	
For >6,000 To 8,000, Deduct	-3.10	
For >8,000, Deduct	-4.88	
02 41 16 13-0045 SF 4" Thick Reinforced Concrete Block Foundation Wall Demolition .....	5.51	
For >500 To 2,000, Deduct	-0.41	
For >2,000 To 6,000, Deduct	-1.10	
For >6,000 To 8,000, Deduct	-1.93	
For >8,000, Deduct	-3.03	
02 41 16 13-0046 SF 6" Thick Reinforced Concrete Block Foundation Wall Demolition .....	5.88	
For >500 To 2,000, Deduct	-0.44	
For >2,000 To 6,000, Deduct	-1.18	
For >6,000 To 8,000, Deduct	-2.06	
For >8,000, Deduct	-3.23	
02 41 16 13-0047 SF 8" Thick Reinforced Concrete Block Foundation Wall Demolition .....	6.64	
For >500 To 2,000, Deduct	-0.50	
For >2,000 To 6,000, Deduct	-1.33	
For >6,000 To 8,000, Deduct	-2.32	
For >8,000, Deduct	-3.65	
02 41 16 13-0048 SF 10" Thick Reinforced Concrete Block Foundation Wall Demolition .....	7.64	
For >500 To 2,000, Deduct	-0.57	
For >2,000 To 6,000, Deduct	-1.53	
For >6,000 To 8,000, Deduct	-2.67	
For >8,000, Deduct	-4.20	
02 41 16 13-0049 SF 12" Thick Reinforced Concrete Block Foundation Wall Demolition .....	8.52	
For >500 To 2,000, Deduct	-0.64	
For >2,000 To 6,000, Deduct	-1.70	
For >6,000 To 8,000, Deduct	-2.98	
For >8,000, Deduct	-4.69	
02 41 16 13-0050 SF 16" Thick Reinforced Concrete Block Foundation Wall Demolition .....	10.65	
For >500 To 2,000, Deduct	-0.80	
For >2,000 To 6,000, Deduct	-2.13	
For >6,000 To 8,000, Deduct	-3.73	
For >8,000, Deduct	-5.86	
<b>02 41 16 13-0051 Brick Foundation Wall Demolition (02 41 16 13-0021) .....</b>	<b>4.60</b>	
02 41 16 13-0052 SF 4" Thick Brick Foundation Wall Demolition .....	4.60	
For >500 To 2,000, Deduct	-0.35	
For >2,000 To 6,000, Deduct	-0.92	
For >6,000 To 8,000, Deduct	-1.61	
For >8,000, Deduct	-2.53	
02 41 16 13-0053 SF 6" Thick Brick Foundation Wall Demolition .....	4.90	
For >500 To 2,000, Deduct	-0.37	
For >2,000 To 6,000, Deduct	-0.98	
For >6,000 To 8,000, Deduct	-1.72	
For >8,000, Deduct	-2.70	
02 41 16 13-0054 SF 8" Thick Brick Foundation Wall Demolition .....	5.53	
For >500 To 2,000, Deduct	-0.41	
For >2,000 To 6,000, Deduct	-1.11	
For >6,000 To 8,000, Deduct	-1.94	
For >8,000, Deduct	-3.04	
02 41 16 13-0055 SF 10" Thick Brick Foundation Wall Demolition .....	6.36	
For >500 To 2,000, Deduct	-0.48	
For >2,000 To 6,000, Deduct	-1.27	
For >6,000 To 8,000, Deduct	-2.23	
For >8,000, Deduct	-3.50	
02 41 16 13-0056 SF 12" Thick Brick Foundation Wall Demolition .....	7.10	
For >500 To 2,000, Deduct	-0.53	
For >2,000 To 6,000, Deduct	-1.42	
For >6,000 To 8,000, Deduct	-2.49	
For >8,000, Deduct	-3.91	
02 41 16 13-0057 SF 16" Thick Brick Foundation Wall Demolition .....	8.87	
For >500 To 2,000, Deduct	-0.67	
For >2,000 To 6,000, Deduct	-1.77	
For >6,000 To 8,000, Deduct	-3.10	
For >8,000, Deduct	-4.88	
<b>02 41 16 13-0058 Stone Foundation Demolition (02 41 16 13-0021) .....</b>	<b>14.61</b>	
02 41 16 13-0059 CF Stone Footing Or Foundation Wall Demolition .....	14.61	
For >135 To 405, Deduct	-1.28	
For >405 To 810, Deduct	-2.56	
For >810 To 2025, Deduct	-3.65	
For >2025, Deduct	-5.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>02 41 16 13-0060</b> Other Foundation Demolition <small>(02 41 16 13-0021)</small>		
02 41 16 13-0061 CF Concrete Footing For Fence, Gate Or Playground Equipment Post, Etc. Demolition .....	15.36	
Note: Includes excavation.		
For >135 To 405, Deduct		-1.34
For >405 To 810, Deduct		-2.69
For >810 To 2025, Deduct		-3.84
For >2025, Deduct		-6.14
<b>02 41 19</b> Selective Demolition <small>(02 41)</small>		
<b>02 41 19 13</b> Selective Building Demolition <small>(02 41 19)</small>		
<b>02 41 19 13-0001</b> Saw Cutting <small>(02 41 19 13)</small>		
Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0002 LF Bituminous Paving Up To 4" Depth, Saw Cut .....	2.26	
For Each Additional Pass (Depth To 3"), Add		0.88
For >250, Deduct		-0.22
02 41 19 13-0003 LF Brick Masonry Up To 4" Depth, Saw Cut .....	8.52	
For Each Additional Pass (Depth To 3"), Add		3.38
For >250, Deduct		-0.84
02 41 19 13-0004 LF Concrete Block Up To 4" Depth, Saw Cut .....	7.71	
For Each Additional Pass (Depth To 3"), Add		3.05
For >250, Deduct		-0.76
02 41 19 13-0005 LF Non-Reinforced Concrete Slab Or Paving Up To 4" Depth, Saw Cut .....	2.59	
For Each Additional Pass (Depth To 3"), Add		1.00
For >250, Deduct		-0.25
02 41 19 13-0006 LF Welded Wire Reinforced Concrete Slab Up To 4" Depth, Saw Cut .....	3.41	
For Each Additional Pass (Depth To 3"), Add		1.32
For >250, Deduct		-0.33
02 41 19 13-0007 LF Rod Reinforced Concrete Slab Up To 4" Depth, Saw Cut .....	5.66	
For Each Additional Pass (Depth To 3"), Add		2.22
For >250, Deduct		-0.55
02 41 19 13-0008 LF Plain Concrete Walls Up To 4" Depth, Saw Cut .....	10.90	
For Each Additional Pass (Depth To 3"), Add		4.32
For >250, Deduct		-1.08
02 41 19 13-0009 LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth .....	14.65	
For Each Additional Pass (Depth To 3"), Add		5.81
For >250, Deduct		-1.45
02 41 19 13-0010 LF Concrete And Asphalt Up To 4" Depth, Saw Cut In Streets .....	3.01	
For Each Additional Pass (Depth To 3"), Add		1.08
For >250, Deduct		-0.26
02 41 19 13-0011 LF Igneous Stone Pavements Up To 4" Depth, Saw Cut .....	7.73	
For Each Additional Pass (Depth To 3"), Add		3.05
For >250, Deduct		-0.76
02 41 19 13-0012 LF Sedimentary Stone Pavements Up To 4" Depth, Saw Cut .....	7.73	
For Each Additional Pass (Depth To 3"), Add		3.05
For >250, Deduct		-0.76
02 41 19 13-0013 LF Metamorphic Stone Pavements Up To 4" Depth, Saw Cut .....	7.73	
For Each Additional Pass (Depth To 3"), Add		3.05
For >250, Deduct		-0.76
02 41 19 13-0014 LF Terrazzo Stone Pavements Up To 4" Depth, Saw Cut .....	7.73	
For Each Additional Pass (Depth To 3"), Add		3.05
For >250, Deduct		-0.76
02 41 19 13-0015 EA Saw Cut Minimum Charge .....	1,076.29	
Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>02 41 19 13-0016</b> Torch Cutting <small>(02 41 19 13)</small>		
Note: Includes grinding edge		
02 41 19 13-0017 LF Up To 1/2", Torch Cut Steel Plate .....	3.13	
02 41 19 13-0018 LF >1/2" To 1" Thick, Torch Cut Steel Plate .....	6.27	
02 41 19 13-0019 LF >1" To 1-1/2" Thick, Torch Cut Steel Plate .....	9.41	
02 41 19 13-0020 LF >1-1/2" To 2" Thick, Torch Cut Steel Plate .....	12.55	
02 41 19 13-0021 LF >2" To 2-1/2" Thick, Torch Cut Steel Plate .....	15.68	
02 41 19 13-0022 LF >2-1/2" To 3" Thick, Torch Cut Steel Plate .....	18.82	
02 41 19 13-0023 EA Torch Cutting Minimum Charge .....	1,023.42	
Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>02 41 19 13-0024</b> Drilling In Existing Materials <small>(02 41 19 13)</small>		
Note: Includes drill bit wear, water, layout, set-up and clean-up.		
<b>02 41 19 13-0025</b> Concrete Core Drilling <small>(02 41 19 13-0024)</small>		
<b>02 41 19 13-0026</b> Up To 4" Thick Concrete Core Drilling <small>(02 41 19 13-0025)</small>		

**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0027 EA Drill 1" Diameter Core In Up To 4" Concrete.....	41.78	
For Horizontal Cores, Add	8.26	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	16.51	
02 41 19 13-0028 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	46.35	
For Horizontal Cores, Add	9.17	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.34	
02 41 19 13-0029 EA Drill 2" Diameter Core In Up To 4" Concrete.....	51.46	
For Horizontal Cores, Add	10.19	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.38	
02 41 19 13-0030 EA Drill 3" Diameter Core In Up To 4" Concrete.....	73.47	
For Horizontal Cores, Add	14.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.12	
02 41 19 13-0031 EA Drill 4" Diameter Core In Up To 4" Concrete.....	98.45	
For Horizontal Cores, Add	19.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	39.02	
02 41 19 13-0032 EA Drill 6" Diameter Core In Up To 4" Concrete.....	110.34	
For Horizontal Cores, Add	21.84	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.68	
02 41 19 13-0033 EA Drill 8" Diameter Core In Up To 4" Concrete.....	176.28	
For Horizontal Cores, Add	34.94	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	69.88	
02 41 19 13-0034 EA Drill 10" Diameter Core In Up To 4" Concrete.....	220.53	
For Horizontal Cores, Add	43.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.35	
02 41 19 13-0035 EA Drill 12" Diameter Core In Up To 4" Concrete.....	257.36	
For Horizontal Cores, Add	50.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	101.92	
02 41 19 13-0036 EA Drill 14" Diameter Core In Up To 4" Concrete.....	294.20	
For Horizontal Cores, Add	58.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.46	
02 41 19 13-0037 EA Drill 18" Diameter Core In Up To 4" Concrete.....	331.46	
For Horizontal Cores, Add	65.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.01	
<b>02 41 19 13-0038 &gt;4" To 6" Thick Concrete Core Drilling (02 41 19 13-0025)</b>		
02 41 19 13-0039 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	59.72	
For Horizontal Cores, Add	11.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.58	
02 41 19 13-0040 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	66.27	
For Horizontal Cores, Add	13.10	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.20	
02 41 19 13-0041 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	73.55	
For Horizontal Cores, Add	14.56	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.11	
02 41 19 13-0042 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	88.42	
For Horizontal Cores, Add	17.47	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.94	
02 41 19 13-0043 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	110.59	
For Horizontal Cores, Add	21.84	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.68	
02 41 19 13-0044 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	147.33	
For Horizontal Cores, Add	29.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	58.24	
02 41 19 13-0045 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	220.76	
For Horizontal Cores, Add	43.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.35	
02 41 19 13-0046 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	258.00	
For Horizontal Cores, Add	50.96	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	101.92	
02 41 19 13-0047 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	294.99	
For Horizontal Cores, Add	58.23	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.46	
02 41 19 13-0048 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	332.21	
For Horizontal Cores, Add	65.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.01	
02 41 19 13-0049 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	370.01	
For Horizontal Cores, Add	72.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	145.58	
<b>02 41 19 13-0050 &gt;6" To 8" Thick Concrete Core Drilling (02 41 19 13-0025)</b>		
02 41 19 13-0051 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	65.91	
For Horizontal Cores, Add	12.97	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.94	
02 41 19 13-0052 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	73.11	
For Horizontal Cores, Add	14.41	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.82	
02 41 19 13-0053 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	81.12	
For Horizontal Cores, Add	16.01	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.03	
02 41 19 13-0054 EA Drill 3" Diameter Core In >6" To 8" Concrete.....	96.07	
For Horizontal Cores, Add	18.93	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.85	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0055	EA			Drill 4" Diameter Core In >6" To 8" Concrete.....	125.63	
				<i>For Horizontal Cores, Add</i>	24.75	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	49.50	
02 41 19 13-0056	EA			Drill 6" Diameter Core In >6" To 8" Concrete.....	177.05	
				<i>For Horizontal Cores, Add</i>	34.94	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.88	
02 41 19 13-0057	EA			Drill 8" Diameter Core In >6" To 8" Concrete.....	294.33	
				<i>For Horizontal Cores, Add</i>	58.23	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	116.46	
02 41 19 13-0058	EA			Drill 10" Diameter Core In >6" To 8" Concrete.....	331.80	
				<i>For Horizontal Cores, Add</i>	65.51	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	131.01	
02 41 19 13-0059	EA			Drill 12" Diameter Core In >6" To 8" Concrete.....	369.07	
				<i>For Horizontal Cores, Add</i>	72.79	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	145.58	
02 41 19 13-0060	EA			Drill 14" Diameter Core In >6" To 8" Concrete.....	406.56	
				<i>For Horizontal Cores, Add</i>	80.05	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	160.11	
02 41 19 13-0061	EA			Drill 18" Diameter Core In >6" To 8" Concrete.....	444.94	
				<i>For Horizontal Cores, Add</i>	87.35	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	174.70	
02 41 19 13-0062				<b>&gt;8" To 10" Thick Concrete Core Drilling</b> <small>(02 41 19 13-0025)</small>		
02 41 19 13-0063	EA			Drill 1" Diameter Core In >8" To 10" Concrete.....	77.97	
				<i>For Horizontal Cores, Add</i>	15.33	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	30.66	
02 41 19 13-0064	EA			Drill 1-1/2" Diameter Core In >8" To 10" Concrete.....	86.49	
				<i>For Horizontal Cores, Add</i>	17.03	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	34.07	
02 41 19 13-0065	EA			Drill 2" Diameter Core In >8" To 10" Concrete.....	95.94	
				<i>For Horizontal Cores, Add</i>	18.92	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	37.85	
02 41 19 13-0066	EA			Drill 3" Diameter Core In >8" To 10" Concrete.....	111.01	
				<i>For Horizontal Cores, Add</i>	21.84	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	43.68	
02 41 19 13-0067	EA			Drill 4" Diameter Core In >8" To 10" Concrete.....	126.12	
				<i>For Horizontal Cores, Add</i>	24.75	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	49.50	
02 41 19 13-0068	EA			Drill 6" Diameter Core In >8" To 10" Concrete.....	177.64	
				<i>For Horizontal Cores, Add</i>	34.94	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.88	
02 41 19 13-0069	EA			Drill 8" Diameter Core In >8" To 10" Concrete.....	295.14	
				<i>For Horizontal Cores, Add</i>	58.23	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	116.46	
02 41 19 13-0070	EA			Drill 10" Diameter Core In >8" To 10" Concrete.....	332.86	
				<i>For Horizontal Cores, Add</i>	65.51	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	131.01	
02 41 19 13-0071	EA			Drill 12" Diameter Core In >8" To 10" Concrete.....	370.27	
				<i>For Horizontal Cores, Add</i>	72.77	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	145.55	
02 41 19 13-0072	EA			Drill 14" Diameter Core In >8" To 10" Concrete.....	408.17	
				<i>For Horizontal Cores, Add</i>	80.05	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	160.11	
02 41 19 13-0073	EA			Drill 18" Diameter Core In >8" To 10" Concrete.....	446.96	
				<i>For Horizontal Cores, Add</i>	87.33	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	174.66	
02 41 19 13-0074				<b>&gt;10" To 12" Thick Concrete Core Drilling</b> <small>(02 41 19 13-0025)</small>		
02 41 19 13-0075	EA			Drill 1" Diameter Core In >10" To 12" Concrete.....	84.15	
				<i>For Horizontal Cores, Add</i>	16.51	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	33.02	
02 41 19 13-0076	EA			Drill 1-1/2" Diameter Core In >10" To 12" Concrete.....	93.32	
				<i>For Horizontal Cores, Add</i>	18.34	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	36.69	
02 41 19 13-0077	EA			Drill 2" Diameter Core In >10" To 12" Concrete.....	103.51	
				<i>For Horizontal Cores, Add</i>	20.38	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	40.76	
02 41 19 13-0078	EA			Drill 3" Diameter Core In >10" To 12" Concrete.....	111.40	
				<i>For Horizontal Cores, Add</i>	21.84	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	43.68	
02 41 19 13-0079	EA			Drill 4" Diameter Core In >10" To 12" Concrete.....	148.46	
				<i>For Horizontal Cores, Add</i>	29.12	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	58.24	
02 41 19 13-0080	EA			Drill 6" Diameter Core In >10" To 12" Concrete.....	192.80	
				<i>For Horizontal Cores, Add</i>	37.85	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	75.71	
02 41 19 13-0081	EA			Drill 8" Diameter Core In >10" To 12" Concrete.....	310.52	
				<i>For Horizontal Cores, Add</i>	61.14	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	122.29	
02 41 19 13-0082	EA			Drill 10" Diameter Core In >10" To 12" Concrete.....	333.93	
				<i>For Horizontal Cores, Add</i>	65.51	
				<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	131.01	

**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0083	EA		Drill 12" Diameter Core In >10" To 12" Concrete .....	386.21	
			<i>For Horizontal Cores, Add</i>	75.71	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	151.42	
<b>02 41 19 13-0084</b>			<b>&gt;12" Thick Concrete Core Drilling (02 41 19 13-0025)</b>		
02 41 19 13-0085	IN		Drill 1" Diameter Core In >12" Concrete .....	10.22	
			<i>For Horizontal Cores, Add</i>	2.02	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.04	
02 41 19 13-0086	IN		Drill 1-1/2" Diameter Core In >12" Concrete .....	11.35	
			<i>For Horizontal Cores, Add</i>	2.24	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.49	
02 41 19 13-0087	IN		Drill 2" Diameter Core In >12" Concrete .....	12.59	
			<i>For Horizontal Cores, Add</i>	2.49	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.98	
02 41 19 13-0088	IN		Drill 3" Diameter Core In >12" Concrete .....	13.82	
			<i>For Horizontal Cores, Add</i>	2.73	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.46	
02 41 19 13-0089	IN		Drill 4" Diameter Core In >12" Concrete .....	18.43	
			<i>For Horizontal Cores, Add</i>	3.64	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	7.28	
02 41 19 13-0090	IN		Drill 6" Diameter Core In >12" Concrete .....	23.96	
			<i>For Horizontal Cores, Add</i>	4.73	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.47	
02 41 19 13-0091	IN		Drill 8" Diameter Core In >12" Concrete .....	38.65	
			<i>For Horizontal Cores, Add</i>	7.65	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.30	
02 41 19 13-0092	IN		Drill 10" Diameter Core In >12" Concrete .....	41.65	
			<i>For Horizontal Cores, Add</i>	8.22	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.45	
02 41 19 13-0093	IN		Drill 12" Diameter Core In >12" Concrete .....	47.98	
			<i>For Horizontal Cores, Add</i>	9.47	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.94	
<b>02 41 19 13-0094</b>			<b>Brick/Concrete Block Core Drilling (02 41 19 13-0024)</b>		
<b>02 41 19 13-0095</b>			<b>Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0096	EA		Drill 1" Diameter Core In Up To 4" Brick/Concrete Block .....	33.52	
			<i>For Horizontal Cores, Add</i>	6.60	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	13.21	
02 41 19 13-0097	EA		Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block .....	37.18	
			<i>For Horizontal Cores, Add</i>	7.34	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.67	
02 41 19 13-0098	EA		Drill 2" Diameter Core In Up To 4" Brick/Concrete Block .....	41.26	
			<i>For Horizontal Cores, Add</i>	8.15	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	16.30	
02 41 19 13-0099	EA		Drill 3" Diameter Core In Up To 4" Brick/Concrete Block .....	58.91	
			<i>For Horizontal Cores, Add</i>	11.65	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.29	
02 41 19 13-0100	EA		Drill 4" Diameter Core In Up To 4" Brick/Concrete Block .....	78.94	
			<i>For Horizontal Cores, Add</i>	15.61	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	31.21	
02 41 19 13-0101	EA		Drill 6" Diameter Core In Up To 4" Brick/Concrete Block .....	88.51	
			<i>For Horizontal Cores, Add</i>	17.47	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	34.94	
02 41 19 13-0102	EA		Drill 8" Diameter Core In Up To 4" Brick/Concrete Block .....	141.33	
			<i>For Horizontal Cores, Add</i>	27.95	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	55.90	
02 41 19 13-0103	EA		Drill 10" Diameter Core In Up To 4" Brick/Concrete Block .....	176.85	
			<i>For Horizontal Cores, Add</i>	34.94	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.88	
02 41 19 13-0104	EA		Drill 12" Diameter Core In Up To 4" Brick/Concrete Block .....	206.40	
			<i>For Horizontal Cores, Add</i>	40.77	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	81.53	
02 41 19 13-0105	EA		Drill 14" Diameter Core In Up To 4" Brick/Concrete Block .....	235.98	
			<i>For Horizontal Cores, Add</i>	46.58	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	93.17	
02 41 19 13-0106	EA		Drill 18" Diameter Core In Up To 4" Brick/Concrete Block .....	265.95	
			<i>For Horizontal Cores, Add</i>	52.40	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.81	
<b>02 41 19 13-0107</b>			<b>&gt;4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0108	EA		Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block .....	47.93	
			<i>For Horizontal Cores, Add</i>	9.43	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	18.86	
02 41 19 13-0109	EA		Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block .....	53.17	
			<i>For Horizontal Cores, Add</i>	10.48	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	20.96	
02 41 19 13-0110	EA		Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block .....	58.99	
			<i>For Horizontal Cores, Add</i>	11.64	
			<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.29	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	02 41	19	13-0111	EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	70.94 13.98 27.95	
	02 41	19	13-0112	EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	88.76 17.47 34.94	
	02 41	19	13-0113	EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	118.21 23.29 46.59	
	02 41	19	13-0114	EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	177.08 34.94 69.88	
	02 41	19	13-0115	EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	207.04 40.77 81.53	
	02 41	19	13-0116	EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	236.77 46.58 93.17	
	02 41	19	13-0117	EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	266.70 52.40 104.81	
	02 41	19	13-0118	EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	297.22 58.23 116.46	
	<b>02 41</b>	<b>19</b>	<b>13-0119</b>	<b>&gt;6" To 8" Thick Brick/Concrete Block Core Drilling</b> (02 41 19 13-0094)		
	02 41	19	13-0120	EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.93 10.38 20.75	
	02 41	19	13-0121	EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	58.70 11.53 23.06	
	02 41	19	13-0122	EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	65.11 12.81 25.62	
	02 41	19	13-0123	EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	77.14 15.14 30.28	
	02 41	19	13-0124	EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	100.89 19.80 39.60	
	02 41	19	13-0125	EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	142.10 27.95 55.90	
	02 41	19	13-0126	EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	236.11 46.58 93.17	
	02 41	19	13-0127	EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	266.29 52.40 104.81	
	02 41	19	13-0128	EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	296.28 58.23 116.46	
	02 41	19	13-0129	EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	326.51 64.04 128.09	
	02 41	19	13-0130	EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	357.58 69.88 139.76	
	<b>02 41</b>	<b>19</b>	<b>13-0131</b>	<b>&gt;8" To 10" Thick Brick/Concrete Block Core Drilling</b> (02 41 19 13-0094)		
	02 41	19	13-0132	EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	62.64 12.26 24.53	
	02 41	19	13-0133	EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.45 13.63 27.25	
	02 41	19	13-0134	EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	77.02 15.14 30.28	
	02 41	19	13-0135	EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	89.18 17.47 34.94	
	02 41	19	13-0136	EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	101.38 19.80 39.60	
	02 41	19	13-0137	EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	142.69 27.95 55.90	
	02 41	19	13-0138	EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block ..... <i>For Horizontal Cores, Add</i> <i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	236.92 46.58 93.17	

**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0139 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block .....	267.35	
For Horizontal Cores, Add	52.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.81	
02 41 19 13-0140 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block .....	297.51	
For Horizontal Cores, Add	58.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	116.44	
02 41 19 13-0141 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block .....	328.12	
For Horizontal Cores, Add	64.04	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	128.09	
02 41 19 13-0142 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block .....	359.63	
For Horizontal Cores, Add	69.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	139.73	
<b>02 41 19 13-0143 &gt;10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0144 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block .....	67.64	
For Horizontal Cores, Add	13.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.42	
02 41 19 13-0145 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block .....	74.98	
For Horizontal Cores, Add	14.68	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.35	
02 41 19 13-0146 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block .....	83.13	
For Horizontal Cores, Add	16.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.61	
02 41 19 13-0147 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block .....	89.57	
For Horizontal Cores, Add	17.47	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.94	
02 41 19 13-0148 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block .....	119.34	
For Horizontal Cores, Add	23.29	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	46.59	
02 41 19 13-0149 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block .....	154.95	
For Horizontal Cores, Add	30.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	60.57	
02 41 19 13-0150 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block .....	249.38	
For Horizontal Cores, Add	48.92	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	97.83	
02 41 19 13-0151 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block .....	268.42	
For Horizontal Cores, Add	52.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.81	
02 41 19 13-0152 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block .....	310.51	
For Horizontal Cores, Add	60.57	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	121.14	
<b>02 41 19 13-0153 &gt;12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0154 IN Drill 1" Diameter Core In >12" Brick/Concrete Block .....	8.21	
For Horizontal Cores, Add	1.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.23	
02 41 19 13-0155 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block .....	9.10	
For Horizontal Cores, Add	1.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.59	
02 41 19 13-0156 IN Drill 2" Diameter Core In >12" Brick/Concrete Block .....	10.10	
For Horizontal Cores, Add	1.99	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	3.99	
02 41 19 13-0157 IN Drill 3" Diameter Core In >12" Brick/Concrete Block .....	11.10	
For Horizontal Cores, Add	2.18	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	4.37	
02 41 19 13-0158 IN Drill 4" Diameter Core In >12" Brick/Concrete Block .....	14.79	
For Horizontal Cores, Add	2.91	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	5.82	
02 41 19 13-0159 IN Drill 6" Diameter Core In >12" Brick/Concrete Block .....	19.22	
For Horizontal Cores, Add	3.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	7.57	
02 41 19 13-0160 IN Drill 8" Diameter Core In >12" Brick/Concrete Block .....	31.00	
For Horizontal Cores, Add	6.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.24	
02 41 19 13-0161 IN Drill 10" Diameter Core In >12" Brick/Concrete Block .....	33.42	
For Horizontal Cores, Add	6.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.16	
02 41 19 13-0162 IN Drill 12" Diameter Core In >12" Brick/Concrete Block .....	38.52	
For Horizontal Cores, Add	7.58	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.15	
<b>02 41 19 13-0163 Asphalt Core Drilling (02 41 19 13-0024)</b>		
<b>02 41 19 13-0164 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0163)</b>		
02 41 19 13-0165 EA Drill 1" Diameter Core In Up To 2" Asphalt .....	20.03	
02 41 19 13-0166 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt .....	25.05	
02 41 19 13-0167 EA Drill 2" Diameter Core In Up To 2" Asphalt .....	31.31	
02 41 19 13-0168 EA Drill 3" Diameter Core In Up To 2" Asphalt .....	38.84	
02 41 19 13-0169 EA Drill 4" Diameter Core In Up To 2" Asphalt .....	48.87	
02 41 19 13-0170 EA Drill 6" Diameter Core In Up To 2" Asphalt .....	61.40	
02 41 19 13-0171 EA Drill 8" Diameter Core In Up To 2" Asphalt .....	76.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0172 EA Drill 10" Diameter Core In Up To 2" Asphalt .....	95.24	
02 41 19 13-0173 EA Drill 12" Diameter Core In Up To 2" Asphalt .....	119.02	
<b>02 41 19 13-0174 &gt;2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0163)</b>		
02 41 19 13-0175 EA Drill 1" Diameter Core In >2" To 3" Asphalt .....	25.04	
02 41 19 13-0176 EA Drill 1-1/2" Diameter Core In >2" To 3" Asphalt .....	32.55	
02 41 19 13-0177 EA Drill 2" Diameter Core In >2" To 3" Asphalt .....	40.05	
02 41 19 13-0178 EA Drill 3" Diameter Core In >2" To 3" Asphalt .....	50.07	
02 41 19 13-0179 EA Drill 4" Diameter Core In >2" To 3" Asphalt .....	62.62	
02 41 19 13-0180 EA Drill 6" Diameter Core In >2" To 3" Asphalt .....	78.89	
02 41 19 13-0181 EA Drill 8" Diameter Core In >2" To 3" Asphalt .....	97.73	
02 41 19 13-0182 EA Drill 10" Diameter Core In >2" To 3" Asphalt .....	122.74	
02 41 19 13-0183 EA Drill 12" Diameter Core In >2" To 3" Asphalt .....	152.77	
<b>02 41 19 13-0184 &gt;3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0163)</b>		
02 41 19 13-0185 EA Drill 1" Diameter Core In >3" To 4" Asphalt .....	32.56	
02 41 19 13-0186 EA Drill 1-1/2" Diameter Core In >3" To 4" Asphalt .....	41.33	
02 41 19 13-0187 EA Drill 2" Diameter Core In >3" To 4" Asphalt .....	51.34	
02 41 19 13-0188 EA Drill 3" Diameter Core In >3" To 4" Asphalt .....	63.88	
02 41 19 13-0189 EA Drill 4" Diameter Core In >3" To 4" Asphalt .....	80.20	
02 41 19 13-0190 EA Drill 6" Diameter Core In >3" To 4" Asphalt .....	100.24	
02 41 19 13-0191 EA Drill 8" Diameter Core In >3" To 4" Asphalt .....	125.38	
02 41 19 13-0192 EA Drill 10" Diameter Core In >3" To 4" Asphalt .....	156.65	
02 41 19 13-0193 EA Drill 12 Diameter Core In >3" To 4" Asphalt.....	195.45	
<b>02 41 19 13-0194 &gt;4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0163)</b>		
02 41 19 13-0195 EA Drill 1" Diameter Core In >4" To 6" Asphalt .....	42.60	
02 41 19 13-0196 EA Drill 1-1/2" Diameter Core In >4" To 6" Asphalt .....	52.65	
02 41 19 13-0197 EA Drill 2" Diameter Core In >4" To 6" Asphalt .....	65.17	
02 41 19 13-0198 EA Drill 3" Diameter Core In >4" To 6" Asphalt .....	82.76	
02 41 19 13-0199 EA Drill 4" Diameter Core In >4" To 6" Asphalt .....	102.86	
02 41 19 13-0200 EA Drill 6" Diameter Core In >4" To 6" Asphalt .....	127.95	
02 41 19 13-0201 EA Drill 8" Diameter Core In >4" To 6" Asphalt .....	160.66	
02 41 19 13-0202 EA Drill 10" Diameter Core In >4" To 6" Asphalt .....	200.72	
02 41 19 13-0203 EA Drill 12" Diameter Core In >4" To 6" Asphalt .....	250.83	
<b>02 41 19 13-0204 Manhole Core Drilling (02 41 19 13-0024)</b>		
02 41 19 13-0205 EA Drill 4" Diameter Core In 6" Brick Manhole .....	219.33	
02 41 19 13-0206 EA Drill 5" Diameter Core In 6" Brick Manhole .....	250.64	
02 41 19 13-0207 EA Drill 6" Diameter Core In 6" Brick Manhole .....	292.31	
02 41 19 13-0208 EA Drill 8" Diameter Core In 6" Brick Manhole .....	438.35	
02 41 19 13-0209 EA Drill 2" Diameter Core In 8" Concrete Manhole .....	293.84	
02 41 19 13-0210 EA Drill 3" Diameter Core In 8" Concrete Manhole .....	312.92	
02 41 19 13-0211 EA Drill 4" Diameter Core In 8" Concrete Manhole.....	344.52	
02 41 19 13-0212 EA Drill 5" Diameter Core In 8" Concrete Manhole.....	369.66	
02 41 19 13-0213 EA Drill 6" Diameter Core In 8" Concrete Manhole.....	438.41	
02 41 19 13-0214 EA Drill 8" Diameter Core In 8" Concrete Manhole .....	626.14	
02 41 19 13-0215 EA Drill 2" Diameter Core In Fiberglass Manhole .....	29.13	
02 41 19 13-0216 EA Drill 3" Diameter Core In Fiberglass Manhole .....	33.64	
02 41 19 13-0217 EA Drill 4" Diameter Core In Fiberglass Manhole.....	36.45	
02 41 19 13-0218 EA Drill 5" Diameter Core In Fiberglass Manhole.....	39.76	
02 41 19 13-0219 EA Drill 6" Diameter Core In Fiberglass Manhole.....	43.74	
02 41 19 13-0220 EA Drill 8" Diameter Core In Fiberglass Manhole.....	48.61	
<b>02 41 19 13-0221 Drilling In Concrete Per Inch Of Depth (02 41 19 13-0024)</b>		
Note: Includes layout.		
02 41 19 13-0222 IN 1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.05	
02 41 19 13-0223 IN 5/16" Diameter Drilling In Concrete Per Inch Of Depth .....	2.16	
02 41 19 13-0224 IN 3/8" Diameter Drilling In Concrete Per Inch Of Depth .....	2.28	
02 41 19 13-0225 IN 1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	2.45	
02 41 19 13-0226 IN 5/8" Diameter Drilling In Concrete Per Inch Of Depth .....	2.60	
02 41 19 13-0227 IN 3/4" Diameter Drilling In Concrete Per Inch Of Depth .....	2.86	
02 41 19 13-0228 IN 7/8" Diameter Drilling In Concrete Per Inch Of Depth.....	3.09	
02 41 19 13-0229 IN 1" Diameter Drilling In Concrete Per Inch Of Depth .....	3.25	
02 41 19 13-0230 IN 1-1/8" Diameter Drilling In Concrete Per Inch Of Depth.....	3.84	
02 41 19 13-0231 IN 1-1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.60	
02 41 19 13-0232 IN 1-3/8" Diameter Drilling In Concrete Per Inch Of Depth .....	3.84	
02 41 19 13-0233 IN 1-1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	4.07	
02 41 19 13-0234 IN 1-3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	4.51	
02 41 19 13-0235 IN 2" Diameter Drilling In Concrete Per Inch Of Depth.....	5.26	
<b>02 41 19 13-0236 Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0024)</b>		
Note: Includes layout.		
02 41 19 13-0237 IN 1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....	1.71	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 41 19 13-0238	IN	5/16" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.80
02 41 19 13-0239	IN	3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	1.90
02 41 19 13-0240	IN	1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.04
02 41 19 13-0241	IN	5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.17
02 41 19 13-0242	IN	3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.39
02 41 19 13-0243	IN	7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.58
02 41 19 13-0244	IN	1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.71
02 41 19 13-0245	IN	1-1/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	2.86
02 41 19 13-0246	IN	1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.00
02 41 19 13-0247	IN	1-3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.20
02 41 19 13-0248	IN	1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.39
02 41 19 13-0249	IN	1-3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	3.78
02 41 19 13-0250	IN	2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth	4.38

### 02 41 19 13-0251 Drilling In Wood Or Plastic Per Inch Of Depth (02 41 19 13-0024)

Note: Includes layout.

02 41 19 13-0252	IN	1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.84
02 41 19 13-0253	IN	5/16" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.89
02 41 19 13-0254	IN	3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	0.95
02 41 19 13-0255	IN	1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.02
02 41 19 13-0256	IN	5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.08
02 41 19 13-0257	IN	3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.19
02 41 19 13-0258	IN	7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.29
02 41 19 13-0259	IN	1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.36
02 41 19 13-0260	IN	1-1/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.42
02 41 19 13-0261	IN	1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.49
02 41 19 13-0262	IN	1-3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.59
02 41 19 13-0263	IN	1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.69
02 41 19 13-0264	IN	1-3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	1.88
02 41 19 13-0265	IN	2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth	2.19

### 02 41 19 13-0266 Drilling In Drywall Or Plaster Per Inch Of Depth (02 41 19 13-0024)

Note: Includes layout, high efficiency particulate air (HEPA) vacuum and protection.

02 41 19 13-0267	IN	1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	0.84
02 41 19 13-0268	IN	5/16" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	0.89
02 41 19 13-0269	IN	3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	0.95
02 41 19 13-0270	IN	1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.02
02 41 19 13-0271	IN	5/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.08
02 41 19 13-0272	IN	3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.19
02 41 19 13-0273	IN	7/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.29
02 41 19 13-0274	IN	1" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.36
02 41 19 13-0275	IN	1-1/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.42
02 41 19 13-0276	IN	1-1/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.49
02 41 19 13-0277	IN	1-3/8" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.59
02 41 19 13-0278	IN	1-1/2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.69
02 41 19 13-0279	IN	1-3/4" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	1.88
02 41 19 13-0280	IN	2" Diameter Drilling In Drywall Or Plaster Per Inch Of Depth	2.18
02 41 19 13-0281	IN	Drill 3" Diameter Core In Wood Or Plastic Per Inch Of Depth	2.89
02 41 19 13-0282	IN	Drill 4" Diameter Core In Wood Or Plastic Per Inch Of Depth	3.65
02 41 19 13-0283	IN	Drill 5" Diameter Core In Wood Or Plastic Per Inch Of Depth	4.11
02 41 19 13-0284	IN	Drill 6" Diameter Core In Wood Or Plastic Per Inch Of Depth	4.59

### 02 41 19 13-0285 Limestone Core Drilling (02 41 19 13-0024)

#### 02 41 19 13-0286 10" To 14" Thick Limestone Core Drilling (02 41 19 13-0285)

02 41 19 13-0287	EA	Drill 1" Diameter Core In 10" To 14" Limestone	62.96
02 41 19 13-0288	EA	Drill 1-1/2" Diameter Core In 10" To 14" Limestone	75.61
02 41 19 13-0289	EA	Drill 2" Diameter Core In 10" To 14" Limestone	82.04
02 41 19 13-0290	EA	Drill 3" Diameter Core In 10" To 14" Limestone	94.91
02 41 19 13-0291	EA	Drill 4" Diameter Core In 10" To 14" Limestone	107.79
02 41 19 13-0292	EA	Drill 6" Diameter Core In 10" To 14" Limestone	151.86
02 41 19 13-0293	EA	Drill 8" Diameter Core In 10" To 14" Limestone	252.38

#### 02 41 19 13-0294 15" To 18" Thick Limestone Core Drilling (02 41 19 13-0285)

02 41 19 13-0295	EA	Drill 1" Diameter Core In 15" To 18" Limestone	69.34
02 41 19 13-0296	EA	Drill 1-1/2" Diameter Core In 15" To 18" Limestone	82.02
02 41 19 13-0297	EA	Drill 2" Diameter Core In 15" To 18" Limestone	88.49
02 41 19 13-0298	EA	Drill 3" Diameter Core In 15" To 18" Limestone	95.21
02 41 19 13-0299	EA	Drill 4" Diameter Core In 15" To 18" Limestone	126.88
02 41 19 13-0300	EA	Drill 6" Diameter Core In 15" To 18" Limestone	164.77
02 41 19 13-0301	EA	Drill 8" Diameter Core In 15" To 18" Limestone	265.59

#### 02 41 19 13-0302 19" To 24" Thick Limestone Core Drilling (02 41 19 13-0285)

02 41 19 13-0303	EA	Drill 1" Diameter Core In 19" To 24" Limestone	75.67
02 41 19 13-0304	EA	Drill 1-1/2" Diameter Core In 19" To 24" Limestone	88.40
02 41 19 13-0305	EA	Drill 2" Diameter Core In 19" To 24" Limestone	94.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0306 EA Drill 3" Diameter Core In 19" To 24" Limestone .....	107.92	
02 41 19 13-0307 EA Drill 4" Diameter Core In 19" To 24" Limestone .....	152.15	
02 41 19 13-0308 EA Drill 6" Diameter Core In 19" To 24" Limestone .....	190.14	
02 41 19 13-0309 EA Drill 8" Diameter Core In 19" To 24" Limestone .....	285.03	
<b>02 41 19 13-0310 Minimum Charge For Core Drilling</b> (02 41 19 13-0024)		
02 41 19 13-0311 EA Core Drill Minimum Charge .....	865.07	
Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth" or "Drilling In Wood Or Plastic Per Inch Of Depth".		
<b>02 41 19 13-0312 Cutouts</b> (02 41 19 13)		
Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.		
<b>02 41 19 13-0313 Reinforced Concrete Slab On Grade Cutouts</b> (02 41 19 13-0312)		
02 41 19 13-0314 SF 4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....	48.67	
02 41 19 13-0315 SF 6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....	51.62	
02 41 19 13-0316 SF 8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....	54.56	
02 41 19 13-0317 SF 10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....	57.51	
02 41 19 13-0318 SF 12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....	58.99	
<b>02 41 19 13-0319 Reinforced Concrete Elevated Slab Cutouts</b> (02 41 19 13-0312)		
Note: Includes cutting and removing steel decking.		
02 41 19 13-0320 SF 4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....	59.31	
02 41 19 13-0321 SF 6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....	62.91	
02 41 19 13-0322 SF 8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....	66.51	
02 41 19 13-0323 SF 10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....	70.10	
02 41 19 13-0324 SF 12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....	71.90	
<b>02 41 19 13-0325 Reinforced Concrete Wall Cutouts</b> (02 41 19 13-0312)		
02 41 19 13-0326 SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	60.84	
02 41 19 13-0327 SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	64.52	
02 41 19 13-0328 SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	68.21	
02 41 19 13-0329 SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	71.90	
02 41 19 13-0330 SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	73.74	
<b>02 41 19 13-0331 Brick Wall Cutouts</b> (02 41 19 13-0312)		
Note: Excludes tothing.		
02 41 19 13-0332 SF 4" Thick Brick Wall Cutouts, <24 SF .....	18.43	
02 41 19 13-0333 SF 6" Thick Brick Wall Cutouts, <24 SF .....	30.42	
02 41 19 13-0334 SF 8" Thick Brick Wall Cutouts, <24 SF .....	42.36	
02 41 19 13-0335 SF 10" Thick Brick Wall Cutouts, <24 SF .....	51.62	
02 41 19 13-0336 SF 12" Thick Brick Wall Cutouts, <24 SF .....	61.76	
02 41 19 13-0337 SF 16" Thick Brick Wall Cutouts, <24 SF .....	72.82	
<b>02 41 19 13-0338 Concrete Block Wall Cutouts</b> (02 41 19 13-0312)		
Note: Excludes tothing.		
02 41 19 13-0339 SF 4" Thick Concrete Block Wall Cutouts, <24 SF .....	30.50	
02 41 19 13-0340 SF 6" Thick Concrete Block Wall Cutouts, <24 SF .....	32.29	
02 41 19 13-0341 SF 8" Thick Concrete Block Wall Cutouts, <24 SF .....	34.10	
02 41 19 13-0342 SF 10" Thick Concrete Block Wall Cutouts, <24 SF .....	35.95	
02 41 19 13-0343 SF 12" Thick Concrete Block Wall Cutouts, <24 SF .....	36.87	
02 41 19 13-0344 SF 16" Thick Concrete Block Wall Cutouts, <24 SF .....	38.71	
<b>02 41 19 13-0345 Limestone Cutouts</b> (02 41 19 13-0312)		
02 41 19 13-0346 SF 2" Thick Limestone Cutouts, <24 SF .....	51.62	
02 41 19 13-0347 SF 4" Thick Limestone Cutouts, <24 SF .....	62.68	
02 41 19 13-0348 SF 6" Thick Limestone Cutouts, <24 SF .....	66.36	
02 41 19 13-0349 SF 8" Thick Limestone Cutouts, <24 SF .....	70.05	
02 41 19 13-0350 SF 10" Thick Limestone Cutouts, <24 SF .....	73.74	
02 41 19 13-0351 SF 12" Thick Limestone Cutouts, <24 SF .....	77.43	
<b>02 41 19 13-0352 Tothing Masonry Cutouts</b> (02 41 19 13-0312)		
Note: For use where existing masonry must be removed in a tothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.		
02 41 19 13-0353 VLF Brick, Soft Old Mortar, Tothing Masonry Cutouts .....	18.43	
02 41 19 13-0354 VLF Brick, Hard Mortar, Tothing Masonry Cutouts .....	24.89	
02 41 19 13-0355 VLF Concrete Block, Soft Old Mortar, Tothing Masonry Cutouts .....	11.06	
02 41 19 13-0356 VLF Concrete Block, Hard Mortar, Tothing Masonry Cutouts .....	14.75	

**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 41 19 13-0357		<b>Minimum Charge For Cutouts</b> <small>(02 41 19 13-0312)</small>	
		Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
02 41 19 13-0358	EA	Cutouts Minimum Charge .....	368.70
02 41 19 13-0359		<b>Exterior Masonry Removal</b> <small>(02 41 19 13)</small>	
02 41 19 13-0360		<b>Masonry Columns Removal (Interior And Exterior)</b> <small>(02 41 19 13-0359)</small>	
02 41 19 13-0361	VLF	8" x 8" Masonry Column Removal .....	14.19
02 41 19 13-0362	VLF	10" x 10" Masonry Column Removal .....	22.18
02 41 19 13-0363	VLF	12" x 12" Masonry Column Removal .....	28.41
02 41 19 13-0364	VLF	14" x 14" Masonry Column Removal .....	35.57
02 41 19 13-0365	VLF	16" x 16" Masonry Column Removal .....	43.69
02 41 19 13-0366	CF	Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square .....	24.54
02 41 19 13-0367		<b>Masonry Chimney Removal</b> <small>(02 41 19 13-0359)</small>	
02 41 19 13-0368	CF	Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....	28.78
02 41 19 13-0369	CF	>3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....	21.60
02 41 19 13-0370	CF	>10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....	16.54
02 41 19 13-0371	CF	>20 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....	11.46
02 41 19 13-0372		<b>Remove And Reset Precast, Stone Or Masonry Coping</b> <small>(02 41 19 13-0359)</small>	
		Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.	
02 41 19 13-0373	LF	Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping .....	20.64
02 41 19 13-0374	LF	>8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping .....	30.61
02 41 19 13-0375	LF	>12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping .....	58.01
02 41 19 13-0376		<b>Facade Removal</b> <small>(02 41 19 13-0359)</small>	
		Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.	
02 41 19 13-0377	SF	Stone Or Brick Veneer Facade Removal .....	5.40
		<i>For Cleaning and Storage For Reuse, Add</i> .....	8.10
02 41 19 13-0378		<b>Exterior Masonry Removal</b> <small>(02 41 19 13-0359)</small>	
		Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.	
02 41 19 13-0379	SF	Demolish 4" Thick Non-Reinforced Concrete Block Exterior Wall .....	4.75
02 41 19 13-0380	SF	Demolish 6" Thick Non-Reinforced Concrete Block Exterior Wall .....	5.36
02 41 19 13-0381	SF	Demolish 8" Thick Non-Reinforced Concrete Block Exterior Wall .....	6.48
02 41 19 13-0382	SF	Demolish 10" Thick Non-Reinforced Concrete Block Exterior Wall .....	7.09
02 41 19 13-0383	SF	Demolish 12" Thick Non-Reinforced Concrete Block Exterior Wall .....	7.78
02 41 19 13-0384	SF	Demolish 16" Thick Non-Reinforced Concrete Block Exterior Wall .....	9.73
02 41 19 13-0385	SF	Demolish 4" Thick Reinforced Concrete Block Exterior Wall .....	5.61
02 41 19 13-0386	SF	Demolish 6" Thick Reinforced Concrete Block Exterior Wall .....	6.43
02 41 19 13-0387	SF	Demolish 8" Thick Reinforced Concrete Block Exterior Wall .....	7.78
02 41 19 13-0388	SF	Demolish 10" Thick Reinforced Concrete Block Exterior Wall .....	8.50
02 41 19 13-0389	SF	Demolish 12" Thick Reinforced Concrete Block Exterior Wall .....	9.34
02 41 19 13-0390	SF	Demolish 16" Thick Reinforced Concrete Block Exterior Wall .....	11.68
02 41 19 13-0391	SF	Demolish 4" Thick Brick Exterior Wall .....	4.75
		<i>For Cleaning and Storage For Reuse, Add</i> .....	7.13
02 41 19 13-0392	SF	Demolish 6" Thick Brick Exterior Wall .....	5.36
		<i>For Cleaning and Storage For Reuse, Add</i> .....	8.04
02 41 19 13-0393	SF	Demolish 8" Thick Brick Exterior Wall .....	6.48
		<i>For Cleaning and Storage For Reuse, Add</i> .....	9.72
02 41 19 13-0394	SF	Demolish 10" Thick Brick Exterior Wall .....	7.09
		<i>For Cleaning and Storage For Reuse, Add</i> .....	10.64
02 41 19 13-0395	SF	Demolish 12" Thick Brick Exterior Wall .....	7.78
		<i>For Cleaning and Storage For Reuse, Add</i> .....	11.67
02 41 19 13-0396	SF	Demolish 16" Thick Brick Exterior Wall .....	9.73
		<i>For Cleaning and Storage For Reuse, Add</i> .....	14.60
02 41 19 13-0397	CF	Exterior Brick, Concrete Block Or Composite Removal .....	13.83
		<i>For Cleaning and Storage For Reuse, Add</i> .....	20.75
02 41 19 13-0398		<b>Lintel Removal</b> <small>(02 41 19 13-0359)</small>	
		Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.	
02 41 19 13-0399	LF	Demolish Steel Lintel .....	13.71
02 41 19 13-0400	LF	Demolish Concrete Or Stone Lintel .....	18.28
02 41 19 13-0401	LF	Demolish Steel Shelf Angle .....	14.47





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0402				<b>Reinstall Lintel</b> (02 41 19 13-0359) Note: Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
	02 41 19 13-0403	LF		Clean, Prime And Paint Steel Shelf Angle Or Lintel.....	8.58	
	02 41 19 13-0404	LF		Reinstall Existing Concrete Or Stone Lintel.....	18.28	
	02 41 19 13-0405	LF		Reinstall Existing Steel Shelf Angle..... Note: Includes fasteners.	51.99	
	02 41 19 13-0406	LF		Reinstall Existing Steel Lintel.....	20.31	
	02 41 19 13-0407	LF		Removal And Replacement Of Steel Shelf Angle Over Window Openings At Cavity Walls.....	87.56	
	02 41 19 13-0408	LF		Removal And Replacement Of Steel Lintel Over Window Openings.....	167.53	
02 41 19 13-0409				<b>Exterior Concrete Wall Removal</b> (02 41 19 13)		
	02 41 19 13-0410	SF		Demolish 4" Thick Reinforced Concrete Exterior Wall.....	6.50	
	02 41 19 13-0411	SF		Demolish 6" Thick Reinforced Concrete Exterior Wall.....	11.79	
	02 41 19 13-0412	SF		Demolish 8" Thick Reinforced Concrete Exterior Wall.....	14.81	
	02 41 19 13-0413	SF		Demolish 10" Thick Reinforced Concrete Exterior Wall.....	17.47	
	02 41 19 13-0414	SF		Demolish 12" Thick Reinforced Concrete Exterior Wall.....	20.66	
02 41 19 13-0415				<b>Elevated Concrete Removal</b> (02 41 19 13)		
	02 41 19 13-0416	CF		Elevated Concrete Beam/Slab/Steps Removal, Reinforced.....	12.35	
02 41 19 16				<b>Selective Interior Demolition</b> (02 41 19) Note: Includes break-up of material, loading into truck or dumpster and clean-up.		
02 41 19 16-0001				<b>Floor Removal</b> (02 41 19 16)		
02 41 19 16-0002				<b>Scarify Concrete</b> (02 41 19 16-0001) Note: Up to 1/4" removal per pass.		
	02 41 19 16-0003	SF		Scarify Concrete Floor.....	0.31	
	02 41 19 16-0004	SF		Scarify Concrete Tread And Riser.....	2.58	
	02 41 19 16-0005	SF		Scarify Concrete Wall.....	2.34	
02 41 19 16-0006				<b>Fireproofing Removal</b> (02 41 19 16)		
	02 41 19 16-0007	SF		Removal Of Fireproofing From Concrete Or Steel.....	1.20	
02 41 19 16-0008				<b>Demolish Ceiling</b> (02 41 19 16)		
	02 41 19 16-0009	SF		Demolish Drywall Ceiling.....	0.92	
	02 41 19 16-0010	SF		Demolish Furred Plastered Ceiling.....	2.16	
	02 41 19 16-0011	SF		Demolish Suspended Plastered Ceiling And Suspension System.....	1.66	
02 41 19 16-0012				<b>Demolish Concrete Stair</b> (02 41 19 16)		
	02 41 19 16-0013	CF		Demolish Interior Reinforced Concrete Stairs.....	7.78	
	02 41 19 16-0014	CF		Demolish Exterior Reinforced Concrete Stairs.....	6.78	
02 41 19 16-0015				<b>Demolish Interior Partition/Wall</b> (02 41 19 16) Note: Price includes knock down, loading, clean-up.		
02 41 19 16-0016				<b>Demolish Masonry And Concrete Interior Partition/Walls</b> (02 41 19 16-0015) Note: Includes saw cutting, knock down, loading and clean-up.		
02 41 19 16-0017				<b>Demolish Concrete Block Interior Partition/Walls</b> (02 41 19 16-0016)		
	02 41 19 16-0018	SF		Demolish 4" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	5.04	
	02 41 19 16-0019	SF		Demolish 6" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	5.38	
	02 41 19 16-0020	SF		Demolish 8" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	6.07	
	02 41 19 16-0021	SF		Demolish 12" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	7.78	
	02 41 19 16-0022	SF		Demolish 16" Thick Non-Reinforced Concrete Block Interior Partition/Wall.....	9.74	
	02 41 19 16-0023	SF		Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall.....	6.05	
	02 41 19 16-0024	SF		Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall.....	6.46	
	02 41 19 16-0025	SF		Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall.....	7.28	
	02 41 19 16-0026	SF		Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall.....	9.35	
	02 41 19 16-0027	SF		Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall.....	11.68	
02 41 19 16-0028				<b>Demolish Brick Interior Partition/Walls</b> (02 41 19 16-0016)		
	02 41 19 16-0029	SF		Demolish 4" Thick Brick Interior Partition/Wall.....	5.04	
	02 41 19 16-0030	SF		Demolish 8" Thick Brick Interior Partition/Wall.....	6.07	
	02 41 19 16-0031	SF		Demolish 12" Thick Brick Interior Partition/Wall.....	7.77	
	02 41 19 16-0032	SF		Demolish 16" Thick Brick Interior Partition/Wall.....	9.73	
02 41 19 16-0033				<b>Demolish Glass Block Interior Partition/Walls</b> (02 41 19 16-0016)		
	02 41 19 16-0034	SF		Demolish Glass Block Interior Partition/Walls.....	4.32	

**02 Existing Conditions****02 40 Demolition and Structure Moving****02 41 Demolition**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>02 41 19 16-0035</b>	<b>Demolish Concrete Interior Partition/Walls</b> (02 41 19 16-0016) See CSI section 02 41 16 13-0021 for concrete foundation demolition.	
02 41 19 16-0036	SF Demolish 6" Thick Non-Reinforced Concrete Interior Partition/Wall .....	9.16
02 41 19 16-0037	SF Demolish 8" Thick Non-Reinforced Concrete Interior Partition/Wall .....	11.46
02 41 19 16-0038	SF Demolish 12" Thick Non-Reinforced Concrete Interior Partition/Wall .....	16.03
02 41 19 16-0039	SF Demolish 6" Thick Reinforced Concrete Interior Partition/Wall .....	10.99
02 41 19 16-0040	SF Demolish 8" Thick Reinforced Concrete Interior Partition/Wall .....	13.83
02 41 19 16-0041	SF Demolish 12" Thick Reinforced Concrete Interior Partition/Wall .....	19.24

<b>02 41 19 16-0042</b>	<b>Demolish Terra-Cotta Block Interior Partition/Walls</b> (02 41 19 16-0016)	
02 41 19 16-0043	SF Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster .....	1.73

<b>02 41 19 16-0044</b>	<b>Demolish Stud Framed Interior Partition/Walls</b> (02 41 19 16-0015) Note: Includes knock down, loading and clean-up. Includes demo of insulation if required.	
02 41 19 16-0045	SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side .....	3.05
	For Heights >14' To 20', Add	0.46
	For Heights >20', Add	0.61
02 41 19 16-0046	SF Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides.....	3.57
	For Heights >14' To 20', Add	0.54
	For Heights >20', Add	0.71
02 41 19 16-0047	SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side.....	3.90
	For Heights >14' To 20', Add	0.59
	For Heights >20', Add	0.78
02 41 19 16-0048	SF Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides.....	5.42
	For Heights >14' To 20', Add	0.81
	For Heights >20', Add	1.08
02 41 19 16-0049	SF Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall.....	1.61
	For Heights >14' To 20', Add	0.24
	For Heights >20', Add	0.32
02 41 19 16-0050	SF Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall.....	1.92
	For Heights >14' To 20', Add	0.29
	For Heights >20', Add	0.38

**02 42 Removal and Salvage of Construction Materials** (02 40)**02 42 21 Salvage of Construction Materials** (02 42)

Note: Includes placement on pallets and storage on site.

**02 42 21 35 Roofing Salvage** (02 42 21)

<b>02 42 21 35-0001</b>	<b>Clay Tile Roofing Remove And Salvage For Re-use</b> (02 42 21 35) Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.	
02 42 21 35-0002	SQ Removal Of Clay Roof Tile, Salvage For Re-use.....	280.96

**02 42 21 47 Flooring Salvage** (02 42 21)

<b>02 42 21 47-0001</b>	<b>Flooring Remove And Salvage For Re-Use</b> (02 42 21 47) Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.	
02 42 21 47-0002	SF Removal Of Brick Flooring And Salvage.....	2.56
02 42 21 47-0003	SF Removal Of Ceramic/Quarry Tile Floor And Salvage .....	2.56
02 42 21 47-0004	SF Removal Of Terrazzo Flooring And Salvage.....	3.53
02 42 21 47-0005	SF Removal Of Wood Strip Flooring And Salvage.....	2.07
02 42 21 47-0006	SF Removal Of Wood Parquet Flooring And Salvage.....	1.09
02 42 21 47-0007	SF Removal Of Resilient/Linoleum Flooring And Salvage .....	0.78

**02 43 Structure Moving** (02 40)**02 43 13 Structure Relocation** (02 43)

Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.

**02 43 13 13 Building Relocation** (02 43 13)

<b>02 43 13 13-0001</b>	<b>Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete</b> (02 43 13) Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.	
02 43 13 13-0002	SF Up To 800 SF, Move Relocatable Metal Frame Building .....	35.90
02 43 13 13-0003	SF >800 To 920 SF, Move Relocatable Metal Frame Building.....	33.94
02 43 13 13-0004	SF >920 SF, Move Relocatable Metal Frame Building.....	31.76
02 43 13 13-0005	SF Up To 800 SF, Move Relocatable Wood Frame Building.....	28.81
02 43 13 13-0006	SF >800 To 920 SF, Move Relocatable Wood Frame Building.....	26.93
02 43 13 13-0007	SF >920 SF, Move Relocatable Wood Frame Building .....	23.82
02 43 13 13-0008	SF Up To 800 SF, Move Relocatable Wood/Metal Frame Building.....	34.89
02 43 13 13-0009	SF >800 To 920 SF, Move Relocatable Wood/Metal Frame Building .....	31.76
02 43 13 13-0010	SF >920 SF, Move Relocatable Wood/Metal Frame Building .....	26.93



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
<b>Demolition and Structure Moving</b>	<b>02 40</b>	
<b>Structure Moving</b>	<b>02 43</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**02 50 Site Remediation** (02)

**02 58 Snow Control** (02 50)

**02 58 13 Snow Fencing** (02 58)

**02 58 13 00-0001 Snow/Sand Fence On Steel Posts** (02 58 13)

02 58 13 00-0002	LF	Steel Fence Post, 10' On Center With 4' Wood Snow/Sand Fence.....	7.51	2.03
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**02 60 Contaminated Site Material Removal** (02)

**02 61 Removal and Disposal of Contaminated Soils** (02 60)

**02 61 26 Removal and Disposal of Asbestos Contaminated Soils** (02 61)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

**02 61 26 00-0001 Removal and Disposal of Asbestos Contaminated Soils** (02 61 26)

Note: Includes materials, equipment, mobilization, preparation, signage, removal, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of CF for a quantity of less than 10 CF, followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.

02 61 26 00-0002	EA	Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....	1,118.47	
		<i>For Work In Restricted Working Space, Add</i>	335.54	
02 61 26 00-0003	CF	>10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	74.14	
		<i>For Work In Restricted Working Space, Add</i>	22.24	
02 61 26 00-0004	CF	>100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	49.43	
		<i>For Work In Restricted Working Space, Add</i>	14.83	
02 61 26 00-0005	CF	>250 To 500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	37.13	
		<i>For Work In Restricted Working Space, Add</i>	11.14	
02 61 26 00-0006	CF	>500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	29.66	
		<i>For Work In Restricted Working Space, Add</i>	8.90	
02 61 26 00-0007	CF	>2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	25.21	
		<i>For Work In Restricted Working Space, Add</i>	7.56	
02 61 26 00-0008	CF	>10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal.....	22.68	
		<i>For Work In Restricted Working Space, Add</i>	6.80	

**02 80 Facility Remediation** (02)

**02 81 Transportation and Disposal of Hazardous Materials** (02 80)

**02 81 00 00-0001 Equipment Oil Drain And Disposal** (02 81)

02 81 00 00-0002	TRIP	Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site.....	653.45	
		Note: Excludes Disposal Cost.		
02 81 00 00-0003	DRM	Disposal Of Non-Polychlorinated Biphenyl (PCB) Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum.....	102.68	
		Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0004	DRM	Disposal Of Non-Toxic Polychlorinated Biphenyl (PCB) Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum.....	466.75	
		Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0005	DRM	Disposal Of Toxic Polychlorinated Biphenyl (PCB) Oil By Incineration, Per Partial Or Full 55-Gallon Drum.....	840.15	
		Note: Excludes draining, placing in approved container, and transporting to disposal site.		
02 81 00 00-0006	CF	Hazardous Polychlorinated Biphenyl (PCB) Oil Filled Equipment Disposal At Approved Site.....	112.07	
		Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.		

**02 82 Asbestos Remediation** (02 80)

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

**02 82 13 Asbestos Abatement** (02 82)

**02 82 13 00-0001 Air Monitoring And Bulk Sampling, Asbestos Testing** (02 82 13)

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.

02 82 13 00-0002	HR	Certified Asbestos Air Sampling Technician For Bulk Sampling Or Air Monitoring .....	89.94	
02 82 13 00-0003	EA	48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....	60.79	
02 82 13 00-0004	EA	Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....	71.27	
02 82 13 00-0005	EA	Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....	113.20	

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 13 00-0006 EA 48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing .....	194.96	
02 82 13 00-0007 EA Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing .....	236.88	
02 82 13 00-0008 EA 48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	48.21	
02 82 13 00-0009 EA Next Day Turnaround, (Air) PCM Test, Asbestos Testing.....	58.70	
02 82 13 00-0010 EA Same Day Turnaround, (Air) PCM Test, Asbestos Testing.....	79.66	
02 82 13 00-0011 EA 48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test .....	60.79	
02 82 13 00-0012 EA Next Day Turnaround, (Air Point Counting) PLM Test.....	71.27	
02 82 13 00-0013 EA Same Day Turnaround, (Air Point Counting) PLM Test .....	113.20	
02 82 13 00-0014 EA 48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing .....	194.96	
02 82 13 00-0015 EA Next Day Turnaround, (Air) TEM Test, Asbestos Testing .....	224.30	
02 82 13 00-0016 EA Same Day Turnaround, (Air) TEM Test, Asbestos Testing .....	312.35	
<b>02 82 16 Engineering Control of Asbestos Containing Materials (02 82)</b>		
<b>02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)</b>		
02 82 16 00-0002 SF Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.61	
02 82 16 00-0003 SF Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	2.21	
02 82 16 00-0004 SF Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®) .....	2.42	
02 82 16 00-0005 SF Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®) .....	2.60	
02 82 16 00-0006 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	8.16	
02 82 16 00-0007 SF Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®) .....	9.27	
<b>02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)</b>		
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, lockdown encapsulant applied to surfaces, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project.		
<b>02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)</b>		
<b>02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)</b>		
Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.		
<b>02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)</b>		
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0004 SET Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	1,162.38	
For Work In Restricted Working Space, Add	335.54	
02 82 33 00-0005 LF >20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	40.33	
For Work In Restricted Working Space, Add	11.44	
02 82 33 00-0006 LF >250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	30.79	
For Work In Restricted Working Space, Add	8.58	
02 82 33 00-0007 LF >500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	23.65	
For Work In Restricted Working Space, Add	6.44	
02 82 33 00-0008 LF >2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	18.29	
For Work In Restricted Working Space, Add	4.83	
02 82 33 00-0009 LF >10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	16.19	
For Work In Restricted Working Space, Add	4.20	
<b>02 82 33 00-0010 &gt;6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)</b>		
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0011 SET Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....	1,206.29	
For Work In Restricted Working Space, Add	335.54	
02 82 33 00-0012 LF >20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	48.24	
For Work In Restricted Working Space, Add	13.16	
02 82 33 00-0013 LF >250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	37.27	
For Work In Restricted Working Space, Add	9.86	
02 82 33 00-0014 LF >500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	29.06	
For Work In Restricted Working Space, Add	7.40	
02 82 33 00-0015 LF >2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	22.89	
For Work In Restricted Working Space, Add	5.55	
02 82 33 00-0016 LF >10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	20.48	
For Work In Restricted Working Space, Add	4.83	
<b>02 82 33 00-0017 &gt;12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)</b>		
See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0018 SET Up To 20 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal .....	1,250.20	
For Work In Restricted Working Space, Add	335.54	
02 82 33 00-0019 LF >20 To 250 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	64.31	
For Work In Restricted Working Space, Add	17.54	
02 82 33 00-0020 LF >250 To 500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	49.69	
For Work In Restricted Working Space, Add	13.15	
02 82 33 00-0021 LF >500 To 2,500 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	38.73	
For Work In Restricted Working Space, Add	9.86	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0022	LF			>2,500 To 10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	30.51 7.40	
02 82 33 00-0023	LF			>10,000 LF, >12" To 18" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	27.29 6.43	
02 82 33 00-0024				<b>&gt;18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal</b> (02 82 33 00-0002) <small>82 33 00-0002</small> See CSI section 02 82 33 00-0031 for projects with less than 10 LF.		
02 82 33 00-0025	SET			Up To 20 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	1,294.11 335.54	
02 82 33 00-0026	LF			>20 To 250 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	88.45 24.12	
02 82 33 00-0027	LF			>250 To 500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	68.33 18.08	
02 82 33 00-0028	LF			>500 To 2,500 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	53.27 13.57	
02 82 33 00-0029	LF			>2,500 To 10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	41.94 10.17	
02 82 33 00-0030	LF			>10,000 LF, >18" To 24" Diameter Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	37.54 8.85	
02 82 33 00-0031				<b>Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal</b> (02 82 33 00-0002) Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.		
02 82 33 00-0032	SET			Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal..... <i>For Work In Restricted Working Space, Add</i>	732.68 215.85	
02 82 33 00-0033	LF			>3 To 20 LF Additional Glove Bag Work for Pipe Insulation..... <i>For Work In Restricted Working Space, Add</i>	124.31 35.98	
02 82 33 00-0034	LF			>20 To 250 LF Additional Glove Bag Work for Pipe Insulation..... <i>For Work In Restricted Working Space, Add</i>	50.94 13.97	
02 82 33 00-0035	LF			>250 To 500 LF Additional Glove Bag Work for Pipe Insulation..... <i>For Work In Restricted Working Space, Add</i>	39.30 10.47	
02 82 33 00-0036	LF			>500 LF Additional Glove Bag Work for Pipe Insulation..... <i>For Work In Restricted Working Space, Add</i>	30.57 7.85	
02 82 33 00-0037				<b>Thermal Insulation, Asbestos Abatement And Disposal</b> (02 82 33)		
02 82 33 00-0038				<b>Calcium Block Insulation, Asbestos Abatement And Disposal</b> (02 82 33 00-0037)		
02 82 33 00-0039	SET			Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	1,140.42	
02 82 33 00-0040	SF			>10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	47.77	
02 82 33 00-0041	SF			>500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	39.67	
02 82 33 00-0042	SF			>2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	32.16	
02 82 33 00-0043	SF			>10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	26.52	
02 82 33 00-0044				<b>Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal</b> (02 82 33 00-0037)		
02 82 33 00-0045	SET			Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	1,129.45	
02 82 33 00-0046	SF			>10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	41.47	
02 82 33 00-0047	SF			>500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	33.37	
02 82 33 00-0048	SF			>2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	25.85	
02 82 33 00-0049	SF			>10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	20.22	
02 82 33 00-0050				<b>Fibrous Glass Board Insulation, Asbestos Abatement And Disposal</b> (02 82 33 00-0037)		
02 82 33 00-0051	SET			Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	1,125.79	
02 82 33 00-0052	SF			>10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	36.62	
02 82 33 00-0053	SF			>500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	28.53	
02 82 33 00-0054	SF			>2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	21.01	
02 82 33 00-0055	SF			>10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	15.38	
02 82 33 00-0056				<b>Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal</b> (02 82 33 00-0037) Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0057	SET			Up To 25 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	1,145.91	
02 82 33 00-0058	SF			>25 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	39.23	
02 82 33 00-0059	SF			>500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	31.13	
02 82 33 00-0060	SF			>2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	23.62	
02 82 33 00-0061	SF			>10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	17.99	
02 82 33 00-0062				<b>Surfacing Material, Asbestos Abatement And Disposal</b> (02 82 33)		
02 82 33 00-0063				<b>Fireproofing For Small Areas, Asbestos Abatement And Disposal</b> (02 82 33 00-0062) Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0065 for areas > 1 SF see CSI section.		
02 82 33 00-0064	EA			Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal..... Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.	187.51	

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>02 82 33 00-0065</b> <b>Fireproofing, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0062)</small>		
Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0066 SET Up To 25 SF, Fireproofing, Asbestos Abatement And Disposal .....	1,145.91	
02 82 33 00-0067 SF >25 To 500 SF, Fireproofing, Asbestos Abatement And Disposal .....	46.84	
02 82 33 00-0068 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal .....	35.40	
02 82 33 00-0069 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal .....	26.82	
02 82 33 00-0070 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal .....	20.39	
<b>02 82 33 00-0071</b> <b>Acoustical Plaster, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0062)</small>		
Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0072 SET Up To 25 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	1,136.77	
02 82 33 00-0073 SF >25 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	19.84	
02 82 33 00-0074 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	15.18	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	11.45	
02 82 33 00-0076 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal .....	8.65	
<b>02 82 33 00-0077</b> <b>Gypsum Wall Board, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0062)</small>		
02 82 33 00-0078 SET Up To 50 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal .....	1,155.07	
For Additional Layer, Add	307.58	
02 82 33 00-0079 SF >50 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal .....	15.41	
For Additional Layer, Add	4.04	
02 82 33 00-0080 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal .....	11.45	
For Additional Layer, Add	2.95	
02 82 33 00-0081 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal .....	9.12	
For Additional Layer, Add	2.31	
02 82 33 00-0082 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal .....	7.26	
For Additional Layer, Add	1.80	
02 82 33 00-0083 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal .....	5.86	
For Additional Layer, Add	1.41	
02 82 33 00-0084 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal .....	4.83	
For Additional Layer, Add	1.13	
<b>02 82 33 00-0085</b> <b>Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0062)</small>		
02 82 33 00-0086 SET Up To 25 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal .....	1,136.77	
02 82 33 00-0087 SF >25 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal .....	28.60	
02 82 33 00-0088 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal .....	21.14	
02 82 33 00-0089 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal .....	16.67	
02 82 33 00-0090 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal .....	13.13	
02 82 33 00-0091 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal .....	9.58	
<b>02 82 33 00-0092</b> <b>Stucco, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0062)</small>		
02 82 33 00-0093 SET Up To 50 SF, Stucco, Asbestos Abatement And Disposal .....	1,155.07	
02 82 33 00-0094 SF >50 To 500 SF, Stucco, Asbestos Abatement And Disposal .....	25.04	
02 82 33 00-0095 SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal .....	18.95	
02 82 33 00-0096 SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal .....	14.41	
02 82 33 00-0097 SF >10,000 SF, Stucco, Asbestos Abatement And Disposal .....	10.98	
<b>02 82 33 00-0098</b> <b>Spray On Acoustical Ceiling, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0062)</small>		
02 82 33 00-0099 SET Up To 50 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal .....	1,155.07	
02 82 33 00-0100 SF >50 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal .....	13.16	
02 82 33 00-0101 SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal .....	10.78	
02 82 33 00-0102 SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal .....	7.72	
02 82 33 00-0103 SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal .....	5.97	
<b>02 82 33 00-0104</b> <b>Plywood, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0062)</small>		
02 82 33 00-0105 SET Up To 40 SF, Plywood, Asbestos Abatement And Disposal .....	1,147.75	
02 82 33 00-0106 SF >50 To 500 SF, Plywood, Asbestos Abatement And Disposal .....	16.58	
02 82 33 00-0107 SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal .....	8.35	
02 82 33 00-0108 SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal .....	5.88	
02 82 33 00-0109 SF >10,000 SF, Plywood, Asbestos Abatement And Disposal .....	5.11	
<b>02 82 33 00-0110</b> <b>Flooring Material, Asbestos Abatement And Disposal</b> <small>(02 82 33)</small>		
<b>02 82 33 00-0111</b> <b>Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0110)</small>		



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>	
<b>Asbestos Remediation</b>	<b>02 82</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>02 82 33 00-0112 Floor Tile, Asbestos Abatement And Disposal</b> (02 82 33 00-0111)		
Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0113 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	1,125.79	
For Each Additional Layer, Add	168.87	
02 82 33 00-0114 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	8.35	
For Each Additional Layer, Add	1.25	
02 82 33 00-0115 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	6.92	
For Each Additional Layer, Add	1.04	
02 82 33 00-0116 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	5.62	
For Each Additional Layer, Add	0.84	
02 82 33 00-0117 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile, Asbestos Abatement And Disposal.....	4.04	
For Each Additional Layer, Add	0.61	
<b>02 82 33 00-0118 Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal</b> (02 82 33 00-0111)		
Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0119 SET Up To 100 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	1,125.79	
For Each Additional Layer, Add	168.87	
02 82 33 00-0120 SF >100 To 500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	8.35	
For Each Additional Layer, Add	1.25	
02 82 33 00-0121 SF >500 To 2,500 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	6.96	
For Each Additional Layer, Add	1.04	
02 82 33 00-0122 SF >2,500 To 10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	6.35	
For Each Additional Layer, Add	0.95	
02 82 33 00-0123 SF >10,000 SF, Single Layer Or Multiple Layers, Linoleum Or Vinyl Sheet, Asbestos Abatement And Disposal.....	5.23	
For Each Additional Layer, Add	0.78	
<b>02 82 33 00-0124 Carpet, Asbestos Abatement And Disposal</b> (02 82 33 00-0111)		
02 82 33 00-0125 SET Up To 100 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....	1,125.79	
02 82 33 00-0126 SF >100 To 500 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....	6.63	
02 82 33 00-0127 SF >500 To 2,500 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....	5.46	
02 82 33 00-0128 SF >2,500 To 10,000 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....	4.12	
02 82 33 00-0129 SF >10,000 SF, Carpet With Non-Friable Asbestos Mastic, Asbestos Abatement And Disposal.....	3.25	
<b>02 82 33 00-0130 Wall Or Cove Base, Asbestos Abatement And Disposal</b> (02 82 33 00-0111)		
Note: Up to 12".		
02 82 33 00-0131 SET Up To 25 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	381.97	
02 82 33 00-0132 LF >25 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	5.34	
02 82 33 00-0133 LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	3.35	
02 82 33 00-0134 LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.23	
02 82 33 00-0135 LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.68	
<b>02 82 33 00-0136 Mastic, Asbestos Abatement And Disposal</b> (02 82 33 00-0110)		
Note: Applies to single layer or bottom layer only of multiple layers. Non-hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0137 SET Up To 100 SF, Mastic, Asbestos Abatement And Disposal.....	1,136.78	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0138 SF >100 To 500 SF, Mastic, Asbestos Abatement And Disposal.....	2.97	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0139 SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal.....	2.22	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0140 SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.75	
Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0141 SF >10,000 SF, Mastic, Asbestos Abatement And Disposal.....	1.44	
Note: Applies to bottom layer only if multiple layers.		
<b>02 82 33 00-0142 Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal</b> (02 82 33 00-0110)		
Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		
02 82 33 00-0143 SET Up To 100 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	1,191.67	
02 82 33 00-0144 SF >100 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	9.54	
02 82 33 00-0145 SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	7.16	
02 82 33 00-0146 SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	5.76	
02 82 33 00-0147 SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	4.64	
<b>02 82 33 00-0148 Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal</b> (02 82 33 00-0110)		
02 82 33 00-0149 SET Up To 100 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	1,155.05	
02 82 33 00-0150 SF >100 To 500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	10.34	

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0151 SF >500 To 2,500 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	6.90	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0152 SF >2,500 To 10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	5.50	
02 82 33 00-0153 SF >10,000 SF, Cementitious Underlayment For Flooring, Asbestos Abatement And Disposal.....	4.56	
<b>02 82 33 00-0154 Roofing, Asbestos Abatement And Disposal (02 82 33)</b>		
<b>02 82 33 00-0155 Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0154)</b>		
Note: Includes roofing, flashing, sheet metal, insulation, pitch pockets, board etc.		
<b>02 82 33 00-0156 Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0155)</b>		
02 82 33 00-0157 SET Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,209.97	
02 82 33 00-0158 SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.88	
02 82 33 00-0159 SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.45	
02 82 33 00-0160 SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.31	
02 82 33 00-0161 SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.16	
02 82 33 00-0162 SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.30	
<b>02 82 33 00-0163 &gt;2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0155)</b>		
02 82 33 00-0164 SET Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,279.47	
02 82 33 00-0165 SF >110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	9.61	
02 82 33 00-0166 SF >1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	7.94	
02 82 33 00-0167 SF >5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.69	
02 82 33 00-0168 SF >10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.37	
02 82 33 00-0169 SF >20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.38	
<b>02 82 33 00-0170 &gt;5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0155)</b>		
02 82 33 00-0171 SET Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1,359.97	
02 82 33 00-0172 SF >110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	11.24	
02 82 33 00-0173 SF >1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	9.40	
02 82 33 00-0174 SF >5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	8.01	
02 82 33 00-0175 SF >10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	6.55	
02 82 33 00-0176 SF >20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.46	
<b>02 82 33 00-0177 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0154)</b>		
<b>02 82 33 00-0178 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0177)</b>		
02 82 33 00-0179 SET Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	1,141.34	
Note: Single or first of multiple layers.		
02 82 33 00-0180 SF >125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	7.33	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	1.47	
02 82 33 00-0181 SF >1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	5.90	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	1.18	
02 82 33 00-0182 SF >5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	4.76	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.95	
02 82 33 00-0183 SF >10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	3.61	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.72	
02 82 33 00-0184 SF >20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.75	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add	0.55	
<b>02 82 33 00-0185 Roof Penetration Mastic, Asbestos Abatement And Disposal (02 82 33 00-0154)</b>		
02 82 33 00-0186 SET Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	374.65	
02 82 33 00-0187 SF >10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.98	
02 82 33 00-0188 SF >50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.47	
02 82 33 00-0189 SF >100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	2.03	
02 82 33 00-0190 SF >250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.52	
<b>02 82 33 00-0191 Roof Curb Mastic, Asbestos Abatement And Disposal (02 82 33 00-0154)</b>		
02 82 33 00-0192 SET Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	374.65	





<b>Existing Conditions</b>		<b>02</b>
Facility Remediation		02 80
Asbestos Remediation		02 82

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0193 LF >10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	8.57	
02 82 33 00-0194 LF >20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	6.89	
02 82 33 00-0195 LF >50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	5.77	
02 82 33 00-0196 LF >150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	4.20	
<b>02 82 33 00-0197 Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)</b>		
<b>02 82 33 00-0198 Interior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0197)</b>		
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0199 SET Up To 100 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal .....	1,155.05	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0200 SF >100 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	7.99	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0201 SF >500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	4.19	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0202 SF >2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.41	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0203 SF >10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.02	
Note: Includes detachment of mounted objects before removal.		
<b>02 82 33 00-0204 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0197)</b>		
02 82 33 00-0205 SET Up To 100 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal .....	1,155.05	
02 82 33 00-0206 SF >100 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	6.99	
02 82 33 00-0207 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.76	
02 82 33 00-0208 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	3.08	
02 82 33 00-0209 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.73	
<b>02 82 33 00-0210 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0197)</b>		
02 82 33 00-0211 SET Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	975.96	
02 82 33 00-0212 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	42.52	
02 82 33 00-0213 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	32.98	
02 82 33 00-0214 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	25.84	
02 82 33 00-0215 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	20.48	
02 82 33 00-0216 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	16.45	
02 82 33 00-0217 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal .....	16.18	
<b>02 82 33 00-0218 Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0197)</b>		
02 82 33 00-0219 SET Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal .....	1,180.49	
Note: Single or first of multiple layers.		
02 82 33 00-0220 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	6.33	
Note: Single or first of multiple layers.		
02 82 33 00-0221 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	5.13	
Note: Single or first of multiple layers.		
02 82 33 00-0222 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	4.19	
Note: Single or first of multiple layers.		
02 82 33 00-0223 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	3.23	
Note: Single or first of multiple layers.		
02 82 33 00-0224 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.52	
Note: Single or first of multiple layers.		
<b>02 82 33 00-0225 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)</b>		
<b>02 82 33 00-0226 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0225)</b>		
02 82 33 00-0227 SET Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	789.55	
For Work In Restricted Working Space, Add		
02 82 33 00-0228 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....	223.69	78.53
For Work In Restricted Working Space, Add		
02 82 33 00-0229 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....	22.24	53.82
For Work In Restricted Working Space, Add		
02 82 33 00-0230 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....	14.83	41.52
For Work In Restricted Working Space, Add		
02 82 33 00-0231 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal .....	11.14	34.05
For Work In Restricted Working Space, Add		
02 82 33 00-0232 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	8.90	29.60
For Work In Restricted Working Space, Add		
02 82 33 00-0233 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	7.56	27.07
For Work In Restricted Working Space, Add		
<b>02 82 33 00-0234 Other Asbestos Containing Materials, Asbestos Abatement And Disposal (02 82 33)</b>		
<b>02 82 33 00-0235 30" To 36" Fire Door, Asbestos Abatement And Disposal (02 82 33 00-0234)</b>		
02 82 33 00-0236 SET Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal.....	392.58	
02 82 33 00-0237 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....	153.98	

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0238 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....	140.55	
<b>02 82 33 00-0239 HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0234)</small>		
02 82 33 00-0240 SET Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	373.73	
02 82 33 00-0241 LF >10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	14.74	
02 82 33 00-0242 LF >50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	5.81	
02 82 33 00-0243 LF >100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	5.00	
02 82 33 00-0244 LF >250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	4.33	
02 82 33 00-0245 LF >1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	3.71	
02 82 33 00-0246 LF >2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	3.22	
<b>02 82 33 00-0247 Grout, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0234)</small>		
Note: e.g. flue grout.		
02 82 33 00-0248 SET Up To 10 LF, Grout, Asbestos Abatement And Disposal .....	373.43	
02 82 33 00-0249 LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal .....	14.74	
02 82 33 00-0250 LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal .....	10.17	
02 82 33 00-0251 LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal .....	8.72	
02 82 33 00-0252 LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal .....	7.49	
02 82 33 00-0253 LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal .....	6.47	
02 82 33 00-0254 LF >2,500 LF, Grout, Asbestos Abatement And Disposal .....	5.55	
<b>02 82 33 00-0255 Gaskets, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0234)</small>		
Note: e.g. rope, web cloth, flat.		
02 82 33 00-0256 SET Up To 10 LF, Gaskets, Asbestos Abatement And Disposal .....	373.73	
02 82 33 00-0257 LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal .....	19.86	
02 82 33 00-0258 LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal .....	14.92	
02 82 33 00-0259 LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal .....	12.72	
02 82 33 00-0260 LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal .....	11.46	
02 82 33 00-0261 LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal .....	10.31	
02 82 33 00-0262 LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal .....	9.81	
<b>02 82 33 00-0263 Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0234)</small>		
Note: e.g. grid, spline, or glued on.		
02 82 33 00-0264 SET Up To 50 SF, Ceiling Tile, Asbestos Abatement And Disposal .....	763.93	
Note: Including Glue Removal		
02 82 33 00-0265 SF >50 To 1,000 SF, Ceiling Tile, Asbestos Abatement And Disposal .....	16.22	
Note: Including Glue Removal		
02 82 33 00-0266 SF >1,000 To 2,500 SF, Ceiling Tile, Asbestos Abatement And Disposal .....	7.99	
Note: Including Glue Removal		
02 82 33 00-0267 SF >2,500 To 10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal .....	5.52	
Note: Including Glue Removal		
02 82 33 00-0268 SF >10,000 SF, Ceiling Tile, Asbestos Abatement And Disposal .....	4.75	
Note: Including Glue Removal		
<b>02 82 33 00-0269 Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0234)</small>		
Note: Includes ceiling tile, asbestos barrier paper, and furring strips.		
02 82 33 00-0270 SET Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....	755.52	
02 82 33 00-0271 SF >50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....	16.22	
02 82 33 00-0272 SF >1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....	7.99	
02 82 33 00-0273 SF >2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....	5.52	
02 82 33 00-0274 SF >10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal .....	4.75	
<b>02 82 33 00-0275 Caulking, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0234)</small>		
<b>02 82 33 00-0276 Non-Friable Caulking, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0275)</small>		
02 82 33 00-0277 SET Up To 10 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....	373.43	
02 82 33 00-0278 LF >10 To 50 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....	11.06	
02 82 33 00-0279 LF >50 To 100 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....	7.81	
02 82 33 00-0280 LF >100 To 250 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....	5.83	
02 82 33 00-0281 LF >250 To 1,000 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....	4.39	
02 82 33 00-0282 LF >1,000 To 2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....	3.49	
02 82 33 00-0283 LF >2,500 LF, Non-Friable Asbestos Contaminated Caulking, Asbestos Abatement And Disposal .....	3.03	
<b>02 82 33 00-0284 Window Putty, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0234)</small>		
02 82 33 00-0285 SET Up To 10 LF, Window Putty, Asbestos Abatement And Disposal .....	373.43	
02 82 33 00-0286 LF >10 To 50 LF, Window Putty, Asbestos Abatement And Disposal .....	14.74	



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
Facility Remediation	02 80	
Asbestos Remediation	02 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 82 33 00-0287	LF	>50 To 100 LF, Window Putty, Asbestos Abatement And Disposal .....	10.17
02 82 33 00-0288	LF	>100 To 250 LF, Window Putty, Asbestos Abatement And Disposal .....	8.72
02 82 33 00-0289	LF	>250 To 1,000 LF, Window Putty, Asbestos Abatement And Disposal .....	7.49
02 82 33 00-0290	LF	>1,000 LF, Window Putty, Asbestos Abatement And Disposal.....	6.47

**02 82 33 00-0291 Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal<sup>(02)</sup>**

02 82 33 00-0292	SET	Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal.....	829.95
02 82 33 00-0293	EA	>4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	87.80
02 82 33 00-0294	EA	>40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	65.57
02 82 33 00-0295	EA	>60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	54.49
02 82 33 00-0296	EA	>125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	47.77
02 82 33 00-0297	EA	>625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	43.77
02 82 33 00-0298	EA	>1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	41.49

**02 83 Lead Remediation<sup>(02 80)</sup>**

See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

**02 83 19 Lead-Based Paint Remediation<sup>(02 83)</sup>**

**02 83 19 13 Lead-Based Paint Abatement<sup>(02 83 19)</sup>**

Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, bagging, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting.

**02 83 19 13-0001 Lead Sampling And Testing<sup>(02 83 19 13)</sup>**

Note: Includes packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Excludes sampling time.

02 83 19 13-0002	HR	Certified Lead Sampling Technician For Bulk Sampling Or Air Monitoring .....	87.75
02 83 19 13-0003	EA	X-Ray Fluorescence (XRF) Lead Testing .....	72.26
Note: Including Technician, 3 Readings Per Surface And Lab Fee			
02 83 19 13-0004	EA	5 Day Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee .....	69.18
02 83 19 13-0005	EA	48 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee .....	104.82
02 83 19 13-0006	EA	24 Hour Turnaround Toxicity Characteristic Leaching Procedure (TCLP) Lead Test And Lab Fee .....	146.74
02 83 19 13-0007	EA	5 Day Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee .....	27.25
02 83 19 13-0008	EA	24 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee .....	41.93
02 83 19 13-0009	EA	8 Hour Turnaround Total Threshold Leaching Concentration (TTLC) Lead Test And Lab Fee .....	52.41
02 83 19 13-0010	EA	5 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee .....	69.18
02 83 19 13-0011	EA	3 Day Turnaround Soluble Threshold Limit Concentration (STLC) Lead Test And Lab Fee .....	104.82
02 83 19 13-0012	EA	5 Day Turnaround Lead Wipe Samples And Lab Fee .....	11.53
02 83 19 13-0013	EA	24 Hour Turnaround Lead Wipe Samples And Lab Fee .....	15.72
02 83 19 13-0014	EA	8 Hour Turnaround Lead Wipe Samples And Lab Fee .....	23.06
02 83 19 13-0015	EA	5 Day Turnaround Lead Air Samples And Lab Fee .....	11.53
02 83 19 13-0016	EA	24 Hour Turnaround Lead Air Samples And Lab Fee .....	15.72
02 83 19 13-0017	EA	8 Hour Turnaround Lead Air Samples And Lab Fee .....	23.06
02 83 19 13-0018	EA	5 Day Turnaround Lead Water Test and Lab Fee .....	41.93
02 83 19 13-0019	EA	24 Hour Turnaround Lead Water Test and Lab Fee .....	62.89
02 83 19 13-0020	EA	8 Hour Turnaround Lead Water Test and Lab Fee .....	83.85
02 83 19 13-0021	EA	5 Day Turnaround Lead Paint Chip Test and Lab Fee .....	43.36
02 83 19 13-0022	EA	5 Day Turnaround Lead Soil Test and Lab Fee .....	86.72

**02 83 19 13-0023 Minimum Charge For Lead-Based Paint Remediation<sup>(02 83 19 13)</sup>**

02 83 19 13-0024	EA	Lead-Based Paint Remediation Minimum Show Up Charge .....	1,205.57
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Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.

**02 83 19 13-0025 Chemical Stripping Of Lead Contaminated Material<sup>(02 83 19 13)</sup>**

Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not limited to, chromium, cadmium and mercury.

02 83 19 13-0026	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material .....	33.75
		For 0.025" (25 mil) Application, Add	1.94
		For 0.03" (30 mil) Application, Add	3.06
02 83 19 13-0027	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material .....	50.00
		For 0.025" (25 mil) Application, Add	2.75
		For 0.03" (30 mil) Application, Add	4.28
02 83 19 13-0028	LF	Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material .....	14.52
		For 0.025" (25 mil) Application, Add	0.88
		For 0.03" (30 mil) Application, Add	1.41
		For 0.125" (125 mil) Application, Add	8.13

**02 Existing Conditions****02 80 Facility Remediation****02 83 Lead Remediation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0029	LF	>6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material.....	29.57		
		<i>For 0.025" (25 mil) Application, Add</i>	1.63		
		<i>For 0.03" (30 mil) Application, Add</i>	2.54		
		<i>For 0.125" (125 mil) Application, Add</i>	11.89		
02 83 19 13-0030	SF	Cornice, Chemical Stripping Of Lead Contaminated Material.....	15.82		
		<i>For 0.025" (25 mil) Application, Add</i>	1.04		
		<i>For 0.03" (30 mil) Application, Add</i>	1.72		
02 83 19 13-0031	SF	Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material.....	44.58		
		<i>For 0.025" (25 mil) Application, Add</i>	2.48		
		<i>For 0.03" (30 mil) Application, Add</i>	3.87		
02 83 19 13-0032	SF	Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material.....	9.78		
		<i>For 0.025" (25 mil) Application, Add</i>	0.69		
		<i>For 0.03" (30 mil) Application, Add</i>	1.16		
		<i>For 0.125" (125 mil) Application, Add</i>	8.45		
02 83 19 13-0033	SF	Cabinets, Chemical Stripping Of Lead Contaminated Material.....	28.21		
		<i>For 0.025" (25 mil) Application, Add</i>	1.61		
		<i>For 0.03" (30 mil) Application, Add</i>	2.54		
02 83 19 13-0034	SF	Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material.....	35.93		
		<i>For 0.025" (25 mil) Application, Add</i>	2.00		
		<i>For 0.03" (30 mil) Application, Add</i>	3.12		
02 83 19 13-0035	SF	Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material.....	13.45		
		<i>For 0.025" (25 mil) Application, Add</i>	0.87		
		<i>For 0.03" (30 mil) Application, Add</i>	1.43		
02 83 19 13-0036	SF	Columns, Chemical Stripping Of Lead Contaminated Material.....	12.95		
		<i>For 0.025" (25 mil) Application, Add</i>	0.90		
		<i>For 0.03" (30 mil) Application, Add</i>	1.50		
		<i>For 0.125" (125 mil) Application, Add</i>	10.74		
02 83 19 13-0037	SF	Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material.....	11.40		
		<i>For 0.025" (25 mil) Application, Add</i>	0.77		
		<i>For 0.03" (30 mil) Application, Add</i>	1.28		
02 83 19 13-0038	SF	Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material.....	13.99		
		<i>For 0.025" (25 mil) Application, Add</i>	0.90		
		<i>For 0.03" (30 mil) Application, Add</i>	1.47		
02 83 19 13-0039	SF	Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated.....	20.59		
		<i>For 0.025" (25 mil) Application, Add</i>	1.28		
		<i>For 0.03" (30 mil) Application, Add</i>	2.08		
02 83 19 13-0040	EA	Electrical Devices, Chemical Stripping Of Lead Contaminated Material.....	58.71		
		<i>For 0.025" (25 mil) Application, Add</i>	3.34		
		<i>For 0.03" (30 mil) Application, Add</i>	5.25		
02 83 19 13-0041	LF	Door Frames, Chemical Stripping Of Lead Contaminated Material.....	14.61		
		<i>For 0.025" (25 mil) Application, Add</i>	0.93		
		<i>For 0.03" (30 mil) Application, Add</i>	1.52		
02 83 19 13-0042	SF	Wood Floors, Chemical Stripping Of Lead Contaminated Material.....	8.07		
		<i>For 0.025" (25 mil) Application, Add</i>	0.60		
		<i>For 0.03" (30 mil) Application, Add</i>	1.03		
02 83 19 13-0043	SF	HVAC Grilles, Chemical Stripping Of Lead Contaminated Material.....	30.14		
		<i>For 0.025" (25 mil) Application, Add</i>	1.71		
		<i>For 0.03" (30 mil) Application, Add</i>	2.69		
02 83 19 13-0044	SF	HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material.....	35.93		
		<i>For 0.025" (25 mil) Application, Add</i>	2.00		
		<i>For 0.03" (30 mil) Application, Add</i>	3.12		
02 83 19 13-0045	EA	Hinges, Chemical Stripping Of Lead Contaminated Material.....	18.97		
		<i>For 0.025" (25 mil) Application, Add</i>	1.25		
		<i>For 0.03" (30 mil) Application, Add</i>	2.06		
02 83 19 13-0046	EA	Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material.....	23.33		
		<i>For 0.025" (25 mil) Application, Add</i>	1.47		
		<i>For 0.03" (30 mil) Application, Add</i>	2.39		
		<i>For 0.125" (125 mil) Application, Add</i>	14.83		
02 83 19 13-0047	LF	Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	6.54		
		<i>For 0.025" (25 mil) Application, Add</i>	0.48		
		<i>For 0.03" (30 mil) Application, Add</i>	0.81		
		<i>For 0.125" (125 mil) Application, Add</i>	6.14		
02 83 19 13-0048	LF	>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	10.46		
		<i>For 0.025" (25 mil) Application, Add</i>	0.67		
		<i>For 0.03" (30 mil) Application, Add</i>	1.10		
		<i>For 0.125" (125 mil) Application, Add</i>	7.12		
02 83 19 13-0049	LF	>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	18.72		
		<i>For 0.025" (25 mil) Application, Add</i>	1.19		
		<i>For 0.03" (30 mil) Application, Add</i>	1.94		
		<i>For 0.125" (125 mil) Application, Add</i>	12.18		
02 83 19 13-0050	LF	>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	25.62		
		<i>For 0.025" (25 mil) Application, Add</i>	1.58		
		<i>For 0.03" (30 mil) Application, Add</i>	2.56		
		<i>For 0.125" (125 mil) Application, Add</i>	15.41		
02 83 19 13-0051	LF	>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material.....	45.91		
		<i>For 0.025" (25 mil) Application, Add</i>	2.75		
		<i>For 0.03" (30 mil) Application, Add</i>	4.40		
		<i>For 0.125" (125 mil) Application, Add</i>	24.98		
02 83 19 13-0052	SF	>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area.....	13.71		
		<i>For 0.025" (25 mil) Application, Add</i>	0.79		
		<i>For 0.03" (30 mil) Application, Add</i>	1.26		
		<i>For 0.125" (125 mil) Application, Add</i>	6.67		
02 83 19 13-0053	EA	Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material.....	272.17		
		<i>For 0.025" (25 mil) Application, Add</i>	15.06		
		<i>For 0.03" (30 mil) Application, Add</i>	23.50		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0054	SF			Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material.....	19.27	
				For 0.025" (25 mil) Application, Add	1.53	
				For 0.03" (30 mil) Application, Add	2.64	
02 83 19 13-0055	SF			Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material .....	21.08	
				For 0.025" (25 mil) Application, Add	1.62	
				For 0.03" (30 mil) Application, Add	2.78	
02 83 19 13-0056	SF			Siding, Chemical Stripping Of Lead Contaminated Material .....	10.96	
				For 0.025" (25 mil) Application, Add	0.80	
				For 0.03" (30 mil) Application, Add	1.35	
				For 0.125" (125 mil) Application, Add	10.24	
02 83 19 13-0057	SF			Soffit, Chemical Stripping Of Lead Contaminated Material.....	22.83	
				For 0.025" (25 mil) Application, Add	1.34	
				For 0.03" (30 mil) Application, Add	2.14	
				For 0.125" (125 mil) Application, Add	11.71	
02 83 19 13-0058	SF			Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material.....	10.55	
				For 0.025" (25 mil) Application, Add	0.73	
				For 0.03" (30 mil) Application, Add	1.22	
				For 0.125" (125 mil) Application, Add	8.64	
02 83 19 13-0059	SF			Corrugated Steel, Chemical Stripping Of Lead Contaminated Material.....	11.97	
				For 0.025" (25 mil) Application, Add	0.80	
				For 0.03" (30 mil) Application, Add	1.32	
				For 0.125" (125 mil) Application, Add	8.99	
02 83 19 13-0060	SF			Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material.....	11.94	
				For 0.025" (25 mil) Application, Add	0.80	
				For 0.03" (30 mil) Application, Add	1.32	
				For 0.125" (125 mil) Application, Add	8.99	
02 83 19 13-0061	SF			Steel Trusses, Chemical Stripping Of Lead Contaminated Material .....	16.88	
				For 0.025" (25 mil) Application, Add	1.04	
				For 0.03" (30 mil) Application, Add	1.69	
				For 0.125" (125 mil) Application, Add	10.22	
02 83 19 13-0062	SF			Wood Surfaces, Chemical Stripping Of Lead Contaminated Material.....	11.94	
				For 0.025" (25 mil) Application, Add	0.80	
				For 0.03" (30 mil) Application, Add	1.32	
				For 0.125" (125 mil) Application, Add	8.99	
02 83 19 13-0063	SF			Windows (Sash, Sill, Jambs, Casing Trim), One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material.....	27.38	
				For 0.025" (25 mil) Application, Add	1.57	
				For 0.03" (30 mil) Application, Add	2.48	
02 83 19 13-0064	SF			Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material .....	29.96	
				For 0.025" (25 mil) Application, Add	1.70	
				For 0.03" (30 mil) Application, Add	2.67	
02 83 19 13-0065	SF			Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material .....	31.71	
				For 0.025" (25 mil) Application, Add	1.79	
				For 0.03" (30 mil) Application, Add	2.80	
02 83 19 13-0066	SF			Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material .....	33.46	
				For 0.025" (25 mil) Application, Add	1.87	
				For 0.03" (30 mil) Application, Add	2.93	
02 83 19 13-0067	SF			Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material .....	35.20	
				For 0.025" (25 mil) Application, Add	1.96	
				For 0.03" (30 mil) Application, Add	3.07	
02 83 19 13-0068	SF			Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material .....	37.01	
				For 0.025" (25 mil) Application, Add	2.05	
				For 0.03" (30 mil) Application, Add	3.20	
02 83 19 13-0069	SF			Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material .....	38.71	
				For 0.025" (25 mil) Application, Add	2.14	
				For 0.03" (30 mil) Application, Add	3.33	
02 83 19 13-0070	SF			Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material .....	39.59	
				For 0.025" (25 mil) Application, Add	2.18	
				For 0.03" (30 mil) Application, Add	3.39	
02 83 19 13-0071	SF			Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material .....	40.48	
				For 0.025" (25 mil) Application, Add	2.22	
				For 0.03" (30 mil) Application, Add	3.46	
02 83 19 13-0072	SF			Windows (Sash, Sill, Jambs, Muntins, Casing Trim), One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material .....	41.32	
				For 0.025" (25 mil) Application, Add	2.27	
				For 0.03" (30 mil) Application, Add	3.52	
02 83 19 13-0073	SF			Metal Stairs, Chemical Stripping Of Lead Contaminated Material .....	54.66	
				For 0.025" (25 mil) Application, Add	3.13	
				For 0.03" (30 mil) Application, Add	4.95	
				For 0.125" (125 mil) Application, Add	25.67	
02 83 19 13-0074	LF			Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material.....	9.53	
				For 0.025" (25 mil) Application, Add	0.63	
				For 0.03" (30 mil) Application, Add	1.03	
				For 0.125" (125 mil) Application, Add	6.88	

**02 Existing Conditions****02 80 Facility Remediation****02 83 Lead Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0075 SF Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material .....	27.83	
Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.		
For 0.025" (25 mil) Application, Add	1.69	
For 0.03" (30 mil) Application, Add	2.72	
For 0.125" (125 mil) Application, Add	15.96	
02 83 19 13-0076 SF Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material .....	30.39	
For 0.025" (25 mil) Application, Add	1.77	
For 0.03" (30 mil) Application, Add	2.81	
For 0.125" (125 mil) Application, Add	15.10	
<b>02 83 19 13-0077 Demolish Lead Contaminated Material</b> <small>(02 83 19 13)</small>		
Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.		
02 83 19 13-0078 SF Demolish Ceiling Suspension System, Lead Contaminated Material .....	2.40	
02 83 19 13-0079 SF Demolish Suspended Ceiling System And Tile, Lead Contaminated Material .....	1.39	
02 83 19 13-0080 SF Demolish Acoustical Ceiling Tile, Lead Contaminated Material .....	0.89	
02 83 19 13-0081 SF Demolish Metal Pan Grid System, Lead Contaminated Material .....	1.38	
02 83 19 13-0082 EA Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material .....	66.82	
02 83 19 13-0083 EA Demolish >2' x 4' Light Fixtures, Lead Contaminated Material .....	88.64	
02 83 19 13-0084 SF Demolish Non-Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material .....	9.90	
02 83 19 13-0085 SF Demolish Non-Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material .....	5.55	
02 83 19 13-0086 SF Demolish Brick, Lead Contaminated Material .....	4.17	
02 83 19 13-0087 SF Demolish Concrete Block, Lead Contaminated Material .....	5.37	
02 83 19 13-0088 SF Demolish Tile, Lead Contaminated Material .....	4.05	
02 83 19 13-0089 SF Demolish Up To 6" Concrete, Lead Contaminated Material .....	6.09	
02 83 19 13-0090 IN Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth .....	4.75	
02 83 19 13-0091 IN Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth .....	6.33	
02 83 19 13-0092 LF Demolish Wood Balustrades And Railings, Lead Contaminated Material .....	6.93	
02 83 19 13-0093 LF Demolish Up To 6" Wide Baseboard, Lead Contaminated Material .....	1.81	
02 83 19 13-0094 LF Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material .....	2.26	
02 83 19 13-0095 LF Demolish Base Shoe Molding, Lead Contaminated Material .....	1.47	
02 83 19 13-0096 SF Demolish Concrete, Lead Contaminated Material .....	13.78	
02 83 19 13-0097 LF Demolish Cabinets, Lead Contaminated Material .....	32.11	
02 83 19 13-0098 SF Demolish Ceilings, Gypsum Board, Lead Contaminated Material .....	1.82	
02 83 19 13-0099 SF Demolish Up To 12" Diameter Columns, Lead Contaminated Material .....	17.79	
02 83 19 13-0100 SF Demolish Cornice, Lead Contaminated Material .....	2.37	
02 83 19 13-0101 EA Demolish Doors, Lead Contaminated Material .....	69.65	
02 83 19 13-0102 LF Demolish Door And Window Trim Or Frames, Lead Contaminated Material .....	2.11	
02 83 19 13-0103 EA Demolish Electrical Devices, Lead Contaminated Material .....	21.37	
02 83 19 13-0104 LF Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material .....	2.75	
02 83 19 13-0105 LF Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material .....	4.56	
02 83 19 13-0106 SF Demolish Wood Floors, Lead Contaminated Material .....	3.29	
02 83 19 13-0107 SF Demolish Grilles, Lead Contaminated Material .....	3.87	
02 83 19 13-0108 EA Demolish Hinges, Lead Contaminated Material .....	7.77	
02 83 19 13-0109 EA Demolish Up To 6" Diameter Hangers, Lead Contaminated Material .....	16.69	
02 83 19 13-0110 LF Demolish Up To 2" Diameter Pipes, Lead Contaminated Material .....	6.85	
02 83 19 13-0111 LF Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material .....	9.99	
02 83 19 13-0112 LF Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material .....	15.09	
02 83 19 13-0113 LF Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material .....	27.83	
02 83 19 13-0114 EA Demolish Radiators, Lead Contaminated Material .....	120.21	
02 83 19 13-0115 EA Demolish Shutters, Lead Contaminated Material .....	46.84	
02 83 19 13-0116 SF Demolish Siding, Lead Contaminated Material .....	1.86	
02 83 19 13-0117 SF Demolish Soffit, Lead Contaminated Material .....	1.58	
02 83 19 13-0118 SF Demolish Flat Steel Surfaces, Lead Contaminated Material .....	4.33	
02 83 19 13-0119 SF Demolish Steel Beams, Lead Contaminated Material .....	5.10	
02 83 19 13-0120 SF Demolish Trusses, Lead Contaminated Material .....	6.69	
02 83 19 13-0121 SF Demolish Walls, Wood, Lead Contaminated Material .....	4.95	
02 83 19 13-0122 SF Demolish Windows, Lead Contaminated Material .....	16.63	
02 83 19 13-0123 SF Demolish Metal Stair, Lead Contaminated Material .....	7.96	
02 83 19 13-0124 LF Demolish Single Metal Hand Rail, Lead Contaminated Material .....	5.85	
02 83 19 13-0125 LF Demolish Metal Railing And Posts, Lead Contaminated Material .....	9.55	
02 83 19 13-0126 SF Demolish Metal Picket Fence, Lead Contaminated Material .....	2.63	
02 83 19 13-0127 SF Demolish Plywood, Lead Contaminated Material .....	7.19	
02 83 19 13-0128 SF Demolish Planks (Various Sizes), Lead Contaminated Material .....	3.51	
02 83 19 13-0129 EA Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material .....	21.94	
02 83 19 13-0130 SF Demolish Ceramic Tile Block, Lead Contaminated Material .....	4.79	
02 83 19 13-0131 LF Demolish Metal Guard Rails, Lead Contaminated Material .....	13.17	
02 83 19 13-0132 SF Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material .....	7.02	
02 83 19 13-0133 SF Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material .....	5.05	
02 83 19 13-0134 SF Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material .....	3.95	
02 83 19 13-0135 SF Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material .....	3.07	
02 83 19 13-0136 SF Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material .....	21.94	
02 83 19 13-0137 SF Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material .....	15.60	
02 83 19 13-0138 SF Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material .....	11.70	
02 83 19 13-0139 SF Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material .....	8.78	
<b>02 83 19 13-0140 Wet Sanding/Light Scraping Of Lead Contaminated Material</b> <small>(02 83 19 13)</small>		
Note: Remove loose, flaking lead-based paint to prepare for painting.		
02 83 19 13-0141 SF Wet Sand/Scrape Of Lead Contaminated Material To Prepare For Painting .....	3.34	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**02 83 19 13-0142****Lead Abatement Encapsulation** (02 83 19 13)

Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.

02 83 19 13-0143	SF	Balustrades, Lead Abatement Encapsulation .....	6.11	
02 83 19 13-0144	LF	Up To 6" Wide, Baseboard, Lead Abatement Encapsulation .....	6.02	
02 83 19 13-0145	LF	>6" To 12" Wide, Baseboard, Lead Abatement Encapsulation .....	8.18	
02 83 19 13-0146	SF	Brick, Concrete Block, Concrete, Lead Abatement Encapsulation .....	3.94	
02 83 19 13-0147	SF	Ornate Cabinets, Lead Abatement Encapsulation .....	8.82	
02 83 19 13-0148	SF	Simple Design Cabinets, Lead Abatement Encapsulation .....	7.19	
02 83 19 13-0149	SF	Drywall Ceilings, Lead Abatement Encapsulation .....	2.49	
02 83 19 13-0150	SF	Wood Ceilings, Lead Abatement Encapsulation .....	3.01	
02 83 19 13-0151	SF	Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation .....	2.79	
02 83 19 13-0152	SF	Columns, Lead Abatement Encapsulation .....	4.76	
02 83 19 13-0153	SF	Doors, Lead Abatement Encapsulation .....	9.03	
02 83 19 13-0154	LF	Up To 2" Electrical Conduit, Lead Abatement Encapsulation .....	3.99	
02 83 19 13-0155	SF	Picket Fence (Brush), Lead Abatement Encapsulation .....	2.86	
02 83 19 13-0156	SF	Wood Floors (Roller), Lead Abatement Encapsulation .....	2.39	
02 83 19 13-0157	SF	Grilles, Vents, Lead Abatement Encapsulation .....	6.59	
02 83 19 13-0158	LF	Gutters And Downspouts, Lead Abatement Encapsulation .....	6.11	
02 83 19 13-0159	EA	Hangers, Lead Abatement Encapsulation .....	51.70	
02 83 19 13-0160	LF	Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation .....	3.71	
02 83 19 13-0161	LF	>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation .....	5.37	
02 83 19 13-0162	LF	>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation .....	8.35	
02 83 19 13-0163	LF	>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation .....	12.32	
02 83 19 13-0164	EA	Radiators, Lead Abatement Encapsulation .....	134.86	
02 83 19 13-0165	EA	Up To 6' Shutters, Lead Abatement Encapsulation .....	192.13	
02 83 19 13-0166	SF	Siding, Lead Abatement Encapsulation .....	3.40	
02 83 19 13-0167	SF	Up To 12" Soffit, Lead Abatement Encapsulation .....	4.76	
02 83 19 13-0168	SF	Steel, Flat Surfaces And Tanks Up To 12', Lead Abatement Encapsulation .....	3.94	
02 83 19 13-0169	SF	Steel Beams And Metal Decks, Lead Abatement Encapsulation .....	5.14	
02 83 19 13-0170	SF	Trusses, Lead Abatement Encapsulation .....	5.14	
02 83 19 13-0171	SF	Drywall Walls, Lead Abatement Encapsulation .....	2.22	
02 83 19 13-0172	SF	Wood Walls, Lead Abatement Encapsulation .....	2.72	
02 83 19 13-0173	EA	Window Without Grille, Lead Abatement Encapsulation .....	114.42	
02 83 19 13-0174	EA	Window With Grille, Lead Abatement Encapsulation .....	146.99	
02 83 19 13-0175	LF	Wood Door Frames And Trim, Lead Abatement Encapsulation .....	3.48	
02 83 19 13-0176	LF	Steel Lintels, Lead Abatement Encapsulation .....	4.01	

**02 83 33 Removal and Disposal of Material Containing Lead** (02 83)**02 83 33 13 Lead-Based Paint Removal and Disposal** (02 83 33)**02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead** (02 83 33 13)

02 83 33 13-0002	SF	High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Mild Detergent .....	0.28	
02 83 33 13-0003	SF	High Efficiency Particulate Air (HEPA) Vacuum And Wet Cleaning Of Lead Contaminated Area With Tri-Sodium Phosphate .....	0.29	
02 83 33 13-0004	SF	High Efficiency Particulate Air (HEPA) Vacuum And Shampoo Cleaning Of Lead Contaminated Carpeting .....	1.38	

**02 84 Polychlorinated Biphenyl Remediation** (02 80)**02 84 16 Handling of Lighting Ballasts and Lamps Containing PBCs and Mercury** (02 84)**02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures** (02 84 16)

Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.

02 84 16 00-0002	EA	Removal Of TSCA-Exempt Polychlorinated Biphenyl (PCB) And Non-PCB Ballast From A Demolished Fixture For Recycling .....	12.32	
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**02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts** (02 84 16)

Note: Non-leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.

02 84 16 00-0004	EA	Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures .....	3.19	
02 84 16 00-0005	EA	Recycle Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures .....	4.06	
02 84 16 00-0006	EA	Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures .....	9.60	
02 84 16 00-0007	EA	Recycle TSCA-Exempt Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures .....	20.09	

**02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts** (02 84 16)

Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.

02 84 16 00-0009	EA	Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures .....	5.81	
02 84 16 00-0010	EA	Dispose Of Leaking Non-Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures .....	8.00	
02 84 16 00-0011	EA	Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From Up To 4' Length Fixtures .....	24.68	
02 84 16 00-0012	EA	Dispose Of Leaking Polychlorinated Biphenyl (PCB) Ballast Removed From >4' To 8' Length Fixtures .....	47.91	

**02 Existing Conditions****02 80 Facility Remediation****02 84 Polychlorinated Biphenyl Remediation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**02 84 33 Removal and Disposal of Polychlorinated Biphenyls (02 84)****02 84 33 00-0001 Removal And Disposal Of Polychlorinated Biphenyls Oil Filled****Transformers (02 84 33)**

Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.

02 84 33 00-0002	EA	Removal And Disposal Of Transformers 2.5/3.5 KVA, Non-Polychlorinated Biphenyl (PCB).....	5,254.17
		Note: Includes disposal costs.	
02 84 33 00-0003	EA	Removal And Disposal Of Transformers 20 KVA, Non-Polychlorinated Biphenyl (PCB).....	8,266.07
		Note: Includes disposal costs.	
02 84 33 00-0004	EA	Removal And Disposal Of Switch, Non-Polychlorinated Biphenyl (PCB).....	2,242.82
02 84 33 00-0005	EA	Removal And Disposal Of Transformers 2.5/3.5 KVA, Polychlorinated Biphenyl (PCB).....	9,981.21
		Note: Includes disposal costs.	
02 84 33 00-0006	EA	Removal And Disposal Of Switch, Polychlorinated Biphenyl (PCB) .....	3,994.29
02 84 33 00-0007	EA	Removal And Disposal Of Transformers 20 KVA, Polychlorinated Biphenyl (PCB).....	15,758.96
		Note: Includes disposal costs.	

**02 87 Bio-Hazard Material Remediation (02 80)****02 87 13 Mold Remediation (02 87)**

Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which tasks apply. For certain types of work, there is a task with a unit of measure of SET for a quantity of less than 100 LF or SF (Up to 25 LF for Mold Abatement pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. See CSI section 01 56 16 00-0031 for temporary stud walls, 01 74 19 00-0039 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

**02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)****02 87 13 33-0001 Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal (02 87 13 33)**

Note: Treat fittings as additional lf of insulation.

**02 87 13 33-0002 Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0001)**

Note: Diameter is outer size of insulation.

**02 87 13 33-0003 Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)**

Note: Excludes encased fittings.

02 87 13 33-0004	SET	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	767.59
02 87 13 33-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	29.93
02 87 13 33-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	22.72
02 87 13 33-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	17.32
02 87 13 33-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	13.26
02 87 13 33-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	11.68

**02 87 13 33-0010 >6" Diameter Pipe Insulation, Mold Abatement And Disposal (02 87 13 33-0002)**

02 87 13 33-0011	SET	Up To 20 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal.....	833.46
02 87 13 33-0012	LF	>20 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	37.54
02 87 13 33-0013	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	29.26
02 87 13 33-0014	LF	>500 To 2,500 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	23.04
02 87 13 33-0015	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	18.38
02 87 13 33-0016	LF	>10,000 LF, > 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	16.55

**02 87 13 33-0017 Thermal Insulation, Mold Abatement And Disposal (02 87 13 33)****02 87 13 33-0018 Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal (02 87 13 33-0017)**

02 87 13 33-0019	SET	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal.....	800.53
02 87 13 33-0020	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....	17.67
02 87 13 33-0021	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....	13.53
02 87 13 33-0022	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal .....	10.42
02 87 13 33-0023	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....	8.24

**02 87 13 33-0024 Surfacing Material, Mold Abatement And Disposal (02 87 13 33)**

Note: e.g. fireproofing, acoustical plaster, etc.

**02 87 13 33-0025 Stucco, Mold Abatement And Disposal (02 87 13 33-0024)**

Note: Remove surface coat from brown coat or remove entire assembly, including lath.

02 87 13 33-0026	SET	Up To 50 SF, Stucco, Mold Abatement And Disposal .....	782.24
02 87 13 33-0027	SF	>50 To 500 SF, Stucco, Mold Abatement And Disposal .....	17.30
02 87 13 33-0028	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal.....	13.16
02 87 13 33-0029	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal .....	10.05
02 87 13 33-0030	SF	>10,000 SF, Stucco, Mold Abatement And Disposal .....	7.74

**02 87 13 33-0031 Acoustical Plaster, Mold Abatement And Disposal (02 87 13 33-0024)**

Note: Remove surface coat from brown coat or remove entire assembly, including lath.

02 87 13 33-0032	SET	Up To 50 SF, Acoustical Plaster, Mold Abatement And Disposal .....	782.24
02 87 13 33-0033	SF	>50 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal.....	17.30





<b>Existing Conditions</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>
<b>Bio-Hazard Material Remediation</b>	<b>02 87</b>

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0034 SF >500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal .....	13.16	
02 87 13 33-0035 SF >2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....	10.05	
02 87 13 33-0036 SF >10,000 SF, Acoustical Plaster, Mold Abatement And Disposal.....	7.74	
<b>02 87 13 33-0037 Gypsum Board, Mold Abatement And Disposal (02 87 13 33-0024)</b>		
02 87 13 33-0038 SET Up To 100 SF, Gypsum Board, Mold Abatement And Disposal .....	818.84	
02 87 13 33-0039 SF >100 To 500 SF, Gypsum Board, Mold Abatement And Disposal .....	6.09	
02 87 13 33-0040 SF >500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal .....	4.92	
02 87 13 33-0041 SF >2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal .....	3.99	
02 87 13 33-0042 SF >10,000 SF, Gypsum Board, Mold Abatement And Disposal .....	3.06	
<b>02 87 13 33-0043 Fireproofing, Mold Abatement And Disposal (02 87 13 33-0024)</b>		
Note: Exposed surface area, includes associated overspray.		
02 87 13 33-0044 SET Up To 50 SF, Fireproofing, Mold Abatement And Disposal .....	800.53	
02 87 13 33-0045 SF >50 To 500 SF, Fireproofing, Mold Abatement And Disposal .....	23.94	
02 87 13 33-0046 SF >500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal .....	18.25	
02 87 13 33-0047 SF >2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal .....	13.96	
02 87 13 33-0048 SF >10,000 SF, Fireproofing, Mold Abatement And Disposal .....	10.75	
<b>02 87 13 33-0049 Flooring, Mold Abatement And Disposal (02 87 13 33)</b>		
Note: Includes cove base.		
<b>02 87 13 33-0050 Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0049)</b>		
<b>02 87 13 33-0051 Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0050)</b>		
Note: Single layer or first of multiple layers.		
02 87 13 33-0052 SET Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....	818.84	
02 87 13 33-0053 SF >100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....	6.05	
For Each Additional Layer, Add		1.51
02 87 13 33-0054 SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....	3.60	
For Each Additional Layer, Add		0.90
02 87 13 33-0055 SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....	2.28	
For Each Additional Layer, Add		0.57
02 87 13 33-0056 SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....	1.88	
For Each Additional Layer, Add		0.47
<b>02 87 13 33-0057 Carpet, Mold Abatement And Disposal (02 87 13 33-0049)</b>		
<b>02 87 13 33-0058 Carpet, Glue Down, Mold Abatement And Disposal (02 87 13 33-0057)</b>		
02 87 13 33-0059 SET Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal .....	818.84	
02 87 13 33-0060 SF >100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal .....	5.12	
02 87 13 33-0061 SF >500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal .....	3.40	
02 87 13 33-0062 SF >2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal .....	2.43	
02 87 13 33-0063 SF >10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal .....	1.98	
<b>02 87 13 33-0064 Carpet, Padded With Tack Strips, Mold Abatement And Disposal (02 87 13 33-0057)</b>		
02 87 13 33-0065 SET Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal .....	818.84	
Note: Includes tack strips.		
02 87 13 33-0066 SF >100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal .....	5.70	
Note: Includes tack strips.		
02 87 13 33-0067 SF >500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal .....	4.28	
Note: Includes tack strips.		
02 87 13 33-0068 SF >2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal .....	3.49	
Note: Includes tack strips.		
02 87 13 33-0069 SF >10,000 SF, Carpet And Pad, Mold Abatement And Disposal .....	2.81	
Note: Includes tack strips.		
<b>02 87 13 33-0070 Subflooring, Mold Abatement And Disposal (02 87 13 33-0049)</b>		
02 87 13 33-0071 SET Up To 75 SF, Subflooring, Mold Abatement And Disposal .....	800.53	
02 87 13 33-0072 SF >75 To 500 SF, Subflooring, Mold Abatement And Disposal .....	6.90	
02 87 13 33-0073 SF >500 To 2,500 SF, Subflooring, Mold Abatement And Disposal .....	4.59	
02 87 13 33-0074 SF >2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal .....	2.96	
02 87 13 33-0075 SF >10,000 SF, Subflooring, Mold Abatement And Disposal .....	2.06	
<b>02 87 13 33-0076 Siding, Mold Abatement And Disposal (02 87 13 33)</b>		
<b>02 87 13 33-0077 Interior Paneling, Mold Abatement And Disposal (02 87 13 33-0076)</b>		
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0078 SET Up To 100 SF, Interior Paneling, Mold Abatement And Disposal .....	818.84	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0079 SF >100 To 500 SF, Interior Paneling, Mold Abatement And Disposal .....	6.04	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0080 SF >500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal .....	4.39	
Note: Includes detachment of mounted objects before removal.		

<b>02</b>	<b>Existing Conditions</b>
<b>02 80</b>	<b>Facility Remediation</b>
<b>02 87</b>	<b>Bio-Hazard Material Remediation</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0081 SF >2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal.....	2.75	
Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0082 SF >10,000 SF, Interior Paneling, Mold Abatement And Disposal.....	2.22	
Note: Includes detachment of mounted objects before removal.		
<b>02 87 13 33-0083 Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0076)</b>		
02 87 13 33-0084 SET Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal.....	818.84	
02 87 13 33-0085 SF >100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal.....	7.39	
02 87 13 33-0086 SF >500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal.....	5.28	
02 87 13 33-0087 SF >2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal.....	3.71	
02 87 13 33-0088 SF >10,000 SF, Exterior Siding Board, Mold Abatement And Disposal.....	3.40	
<b>02 87 13 33-0089 Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)</b>		
<b>02 87 13 33-0090 Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0089)</b>		
02 87 13 33-0091 SET Up To 20 CF, Contaminated Debris, Mold Abatement And Disposal.....	833.46	
02 87 13 33-0092 CF >20 To 100 CF, Contaminated Debris, Mold Abatement And Disposal.....	30.18	
02 87 13 33-0093 CF >100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal.....	21.58	
02 87 13 33-0094 CF >250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal.....	17.28	
02 87 13 33-0095 CF >500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal.....	14.70	
02 87 13 33-0096 CF >2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal.....	10.02	
02 87 13 33-0097 CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal.....	9.45	
<b>02 87 13 33-0098 Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)</b>		
<b>02 87 13 33-0099 Wood Studs, Mold Abatement And Disposal (02 87 13 33-0098)</b>		
Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.		
02 87 13 33-0100 SET Up To 100 LF, Wood Studs, Mold Abatement And Disposal.....	409.40	
02 87 13 33-0101 LF >100 To 500 LF, Wood Studs, Mold Abatement And Disposal.....	3.37	
02 87 13 33-0102 LF >500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal.....	2.57	
02 87 13 33-0103 LF >2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal.....	2.06	
02 87 13 33-0104 LF >10,000 LF, Wood Studs, Mold Abatement And Disposal.....	1.62	
<b>02 87 13 33-0105 Ceiling Tile, Mold Abatement And Disposal (02 87 13 33-0098)</b>		
Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.		
02 87 13 33-0106 SET Up To 100 SF, Ceiling Tile, Mold Abatement And Disposal.....	818.84	
02 87 13 33-0107 SF >100 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal.....	10.05	
02 87 13 33-0108 SF >1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal.....	4.98	
02 87 13 33-0109 SF >2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal.....	3.71	
02 87 13 33-0110 SF >10,000 To 25,000 SF, Ceiling Tile, Mold Abatement And Disposal.....	3.67	
02 87 13 33-0111 SF >25,000 To 50,000 SF, Ceiling Tile, Mold Abatement And Disposal.....	3.60	
02 87 13 33-0112 SF >50,000 To 100,000 SF, Ceiling Tile, Mold Abatement And Disposal.....	3.21	
02 87 13 33-0113 SF >100,000 SF, Ceiling Tile, Mold Abatement And Disposal.....	2.86	
<b>02 87 13 33-0114 Caulking, Mold Abatement And Disposal (02 87 13 33-0098)</b>		
02 87 13 33-0115 SET Up To 20 LF, Caulking, Mold Abatement And Disposal.....	187.62	
02 87 13 33-0116 LF >20 To 50 LF, Caulking, Mold Abatement And Disposal.....	3.79	
02 87 13 33-0117 LF >50 To 100 LF, Caulking, Mold Abatement And Disposal.....	2.73	
02 87 13 33-0118 LF >100 To 250 LF, Caulking, Mold Abatement And Disposal.....	2.07	
02 87 13 33-0119 LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal.....	1.55	
02 87 13 33-0120 LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal.....	1.26	
02 87 13 33-0121 LF >2,500 LF, Caulking, Mold Abatement And Disposal.....	1.09	
<b>02 87 13 33-0122 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0098)</b>		
02 87 13 33-0123 CSF Wipe Down Floors With Mild Bleach Solution.....	20.73	
For >25 To 50, Deduct	-2.07	
For >50 To 200, Deduct	-5.18	
For >200, Deduct	-8.28	
02 87 13 33-0124 CSF Wipe Down Walls With Mild Bleach Solution.....	24.39	
For >25 To 50, Deduct	-2.44	
For >50 To 200, Deduct	-6.09	
For >200, Deduct	-9.75	
02 87 13 33-0125 CSF Wipe Down Ceilings With Mild Bleach Solution.....	27.74	
For >25 To 50, Deduct	-2.77	
For >50 To 200, Deduct	-6.93	
For >200, Deduct	-11.09	
02 87 13 33-0126 CSF Wipe Down Countertops With Mild Bleach Solution.....	22.61	
For >25 To 50, Deduct	-2.26	
02 87 13 33-0127 CSF Wipe Down Other Surfaces With Mild Bleach Solution.....	28.70	
For >25 To 50, Deduct	-2.87	
For >50 To 200, Deduct	-7.17	
For >200, Deduct	-11.47	
<b>02 87 13 33-0128 Cabinets (02 87 13 33-0098)</b>		
02 87 13 33-0129 SET Up To 10 LF, Base Cabinet, Mold Abatement And Disposal.....	982.97	



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>	
<b>Bio-Hazard Material Remediation</b>	<b>02 87</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0130 LF >10 To 20 LF, Base Cabinet, Mold Abatement And Disposal.....	102.80	
02 87 13 33-0131 LF >20 LF, Base Cabinet, Mold Abatement And Disposal.....	80.31	
02 87 13 33-0132 SET Up To 10 LF, Wall Cabinet, Mold Abatement And Disposal.....	851.24	
02 87 13 33-0133 LF >10 To 20 LF, Wall Cabinet, Mold Abatement And Disposal.....	80.62	
02 87 13 33-0134 LF >20 LF, Wall Cabinet, Mold Abatement And Disposal.....	58.14	
<b>02 87 16 Excrement Removal (02 87)</b>		
Note: Includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, personnel health monitoring, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks, the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
<b>02 87 16 13 Bird Excrement Removal (02 87 16)</b>		
<b>02 87 16 13-0001 Bird Waste Removal (02 87 16 13)</b>		
Note: In addition to items listed the Bio-Hazard Material Remediation note above, includes wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002 EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness.....	745.64	
<i>For Work In Restricted Working Space, Add</i>		223.69
02 87 16 13-0003 SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness.....	12.43	
<i>For Work In Restricted Working Space, Add</i>		3.73
02 87 16 13-0004 SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness.....	11.30	
<i>For Work In Restricted Working Space, Add</i>		3.39
02 87 16 13-0005 SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness.....	10.27	
<i>For Work In Restricted Working Space, Add</i>		3.08
02 87 16 13-0006 SF >10,000 SF Bird Waste Removal, Up To 3" Thickness.....	9.33	
<i>For Work In Restricted Working Space, Add</i>		2.80
<b>02 87 19 Bio-Hazard and Infectious Disease Control Remediation (02 87)</b>		
<b>02 87 19 00-0001 Temporary Barriers (02 87 19)</b>		
<b>02 87 19 00-0002 Adjustable Barrier Panel System For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)</b>		
Note: Panels are opal or transparent. Includes self-leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.		
02 87 19 00-0003 EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4000).....	1,028.47	
02 87 19 00-0004 EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4001).....	976.40	
02 87 19 00-0005 EA 2' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4002).....	768.11	
02 87 19 00-0006 EA 2' Wide x 7'-8" To 10' High With High Efficiency Particulate Air (HEPA) Filtered Air Discharge Port, Fire Rated Containment Panel Assembly (Edge Guard 4002.1).....	889.61	
02 87 19 00-0007 EA 6" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4005).....	470.84	
02 87 19 00-0008 EA 12" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4006).....	505.55	
02 87 19 00-0009 EA 3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 32" Door (Edge Guard 4010).....	1,575.21	
Note: Includes a hydraulic closer and a lever style lockset standard.		
02 87 19 00-0010 EA 4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 44" Door (Edge Guard 4003).....	1,748.78	
Note: Includes a hydraulic closer and a lever style lockset standard.		
02 87 19 00-0011 EA 4'-4" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 48" Door (Edge Guard 4008).....	2,095.92	
Note: Includes a hydraulic closer and a lever style lockset standard.		
02 87 19 00-0012 EA 7'-8" To 10' High, Hinged Corner Assembly (Edge Guard 4004).....	345.55	
02 87 19 00-0013 EA 7'-8" To 10' High, Outside Corner Post (Edge Guard 4007).....	284.81	
02 87 19 00-0014 EA 7'-8" To 10' High, "T" Post Corner Assembly (Edge Guard 4009).....	284.81	
02 87 19 00-0015 EA Closure Strips (Edge Guard 3003).....	19.27	
Note: To seal panels to existing walls		
02 87 19 00-0016 EA Digital Differential Pressure Gauge Kit (Edge Guard 3005).....	483.44	
<b>02 87 19 00-0017 Temporary Sheeting For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)</b>		
Note: Includes removal and disposal in approved landfill after use.		
02 87 19 00-0018 SF 6 Mil Plastic Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control.....	0.59	
02 87 19 00-0019 SF 6 Mil Plastic Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control.....	0.79	
02 87 19 00-0020 SF 6 Mil Plastic Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control.....	1.06	
02 87 19 00-0021 SF 6 Mil Plastic Fire Retardant, Anti-static Sheeting, Applied To Floors, For Bio-Hazard And Infectious Disease Control.....	0.70	
02 87 19 00-0022 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Walls, For Bio-Hazard And Infectious Disease Control.....	0.90	
02 87 19 00-0023 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Ceilings, For Bio-Hazard And Infectious Disease Control.....	1.17	
<b>02 87 19 00-0024 Temporary Floor Protection For Bio-Hazard And Infectious Disease Control (02 87 19 00-0001)</b>		
Note: Includes removal after use.		
02 87 19 00-0025 SF 1/8" Thick, Masonite Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	1.95	
02 87 19 00-0026 SF 1/2" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	1.97	
02 87 19 00-0027 SF 3/4" Thick, Plywood Temporary Floor Protection For Bio-Hazard And Infectious Disease Control.....	2.32	

**02 Existing Conditions****02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0028		<b>Temporary Stud Wall For Bio-Hazard And Infectious Disease Control</b> (02 87 19 00-0001) Note: Includes removal after use.		
02 87 19 00-0029	SF	1/2" Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control.....	6.68	
02 87 19 00-0030	SF	1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control .....	9.25	
02 87 19 00-0031	SF	5/8" Type Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control .....	6.85	
02 87 19 00-0032	SF	5/8" Type Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control .....	9.58	
02 87 19 00-0033	SF	6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall For Bio-Hazard And Infectious Disease Control .....	3.91	
02 87 19 00-0034		<b>Isolation Barriers For Bio-Hazard And Infectious Disease Control</b> (02 87 19 00-0001)		
02 87 19 00-0035	GSF	Tent Construction Utilizing Two Layers Of 6 Mil Fire Rated Plastic Sheeting For Bio-Hazard And Infectious Disease Control .....	26.56	
		Note: Includes support frame of 2x4s or PVC piping (ground SF) up to 6' to construct stand-alone tents (floor, walls and ceiling) with airtlock.		
02 87 19 00-0036	GSF	Relocate Tent Construction To Different Area .....	3.05	
02 87 19 00-0037		<b>Plexiglass Barriers For Bio-Hazard And Infectious Disease Control</b> (02 87 19 00-0001)		
02 87 19 00-0038	SF	3/8" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control .....	22.29	
02 87 19 00-0039	SF	1/2" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control .....	26.27	
02 87 19 00-0040	SF	3/4" Thick, Clear Acrylic Glazing (Plexiglas) For Bio-Hazard And Infectious Disease Control .....	36.91	
02 87 19 00-0041	PR	Install Pair Of 8" Diameter Glove Iris Port In Barrier For Bio-Hazard And Infectious Disease Control .....	1,475.38	
		Note: Excludes gloves.		
02 87 19 00-0042	PR	Pair Of 8" Diameter Economy Sleeved Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control .....	528.76	
		Note: For installation in glove iris port.		
02 87 19 00-0043	PR	Pair Of 8" Diameter Bellows Type Gloves With Clamping Ring For Bio-Hazard And Infectious Disease Control .....	842.54	
		Note: For installation in glove iris port.		
02 87 19 00-0044	EA	5-5/16" Diameter, Satin Anodized Aluminum, No-Draft Speak-Thru In Barrier For Bio-Hazard And Infectious Disease .....	154.59	
		Note: Includes gaskets and mounting screws for installation on glass from 1/4" (6 mm) to 1/2" (12 mm) thick. Require a minimum hole diameter of 2-1/4" (57 mm), and will cover holes up to 4-1/4" (108 mm). Recommended hole diameter is 3-1/2" (89 mm).		
02 87 19 00-0045		<b>Temporary Portable And Mobile Trailers</b> (02 87 19)		
02 87 19 00-0046		<b>Trailer Delivery</b> (02 87 19 00-0045)		
02 87 19 00-0047	EA	Deliver Trailer Within 25 Miles .....	1,205.07	
02 87 19 00-0048		<b>Portable And Mobile Trailers, Purchase</b> (02 87 19 00-0045)		
		Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, & phone jacks. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
02 87 19 00-0049	EA	8' x 24' Mobile Trailer With Toilet, Purchase .....	12,937.46	
		For Tie-Downs, Add .....	128.53	
02 87 19 00-0050	EA	8' x 32' Mobile Trailer With Toilet, Purchase .....	18,275.64	
		For Tie-Downs, Add .....	128.53	
02 87 19 00-0051	EA	10' x 36' Mobile Trailer With Toilet, Purchase .....	26,073.38	
		For Tie-Downs, Add .....	128.53	
02 87 19 00-0052	EA	10' x 44' Mobile Trailer With Toilet, Purchase .....	32,578.63	
		For Tie-Downs, Add .....	128.53	
02 87 19 00-0053	EA	10' x 50' Mobile Trailer With Toilet, Purchase .....	37,037.93	
		For Tie-Downs, Add .....	128.53	
02 87 19 00-0054	EA	12' x 50' Mobile Trailer With Toilet, Purchase .....	38,939.29	
		For Tie-Downs, Add .....	128.53	
02 87 19 00-0055	EA	12' x 60' Mobile Trailer With Toilet, Purchase .....	43,327.53	
		For Tie-Downs, Add .....	128.53	
02 87 19 00-0056		<b>Accessories For Portable And Mobile Trailers</b> (02 87 19 00-0045)		
02 87 19 00-0057		<b>Skirting</b> (02 87 19 00-0056) Note: Includes 2" x 4" wood framing 16" on center.		
02 87 19 00-0058	SF	1'-8" High Vinyl Covered Skirt .....	5.47	2.17
02 87 19 00-0059	SF	3' High Vinyl Covered Skirt .....	8.04	3.58
02 87 19 00-0060		<b>Aluminum Modular Access Ramp</b> (02 87 19 00-0056) Note: Includes picketed guardrails, inside grabrails, legs and hardware.		
02 87 19 00-0061	EA	Up To 35" High, Aluminum Modular Access Ramp .....	3,784.31	41.56
02 87 19 00-0062		<b>Aluminum Modular Stairs</b> (02 87 19 00-0056) Note: Excludes earthwork		
02 87 19 00-0063	EA	Aluminum Steps For Mobile Trailers .....	1,046.54	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0064		<b>Decontamination Chambers For Bio-Hazard And Infectious Disease Control</b> <small>(02 87 19)</small> Note: Includes removal after use.		
02 87 19 00-0065	EA	Portable Personnel Decontamination Wash Facility (3 Stage) For Bio-Hazard And Infectious Disease Control .....	1,017.14	
02 87 19 00-0066	EA	Portable Personnel Decontamination Wash Facility (5 Stage) For Bio-Hazard And Infectious Disease Control .....	1,199.10	
02 87 19 00-0067	EA	Portable Waste Decontamination Unit For Bio-Hazard And Infectious Disease Control .....	623.19	
02 87 19 00-0068		<b>Bio-Hazard And Infectious Disease Control Cleaning, Level 2</b> <small>(02 87 19)</small> Note: Includes worker personal protection equipment suites, gloves and masks. Level 1 Biohazard - Minor bacteria and viruses as well as non-infectious bacteria. Microbes are not known to cause disease in healthy hosts and pose minimal risk to workers and the environment. Level 2 Biohazard - Bacteria and viruses that cause mild disease or are difficult to contract. Microbes are typically indigenous and are associated with diseases of varying severity. They pose moderate risk to workers and the environment. Level 3 Biohazard - Microbes are indigenous or exotic and cause serious or potential lethal diseases through respiratory transmission. Disposal of materials used to wipe down surfaces in approved landfill after use. See CSI section 02 87 19 00-0138 for disposal of material into approved landfill.		
02 87 19 00-0069		<b>Bio-Hazard And Infectious Disease Control Cleaning Mobilization</b> <small>(02 87 19 00-0068)</small>		
02 87 19 00-0070	EA	Bio-Hazard And Infectious Disease Control Mobilization And Set-Up .....	400.87	
02 87 19 00-0071		<b>Bio-Hazard And Infectious Disease Control Cleaning Of Surfaces</b> <small>(02 87 19 00-0068)</small> Note: Includes electrostatic spraying of surfaces with mild bleach, wet mop/wipe, disinfect and high efficiency particulate air (HEPA) vacuum surfaces		
02 87 19 00-0072	CSF	Cleaning Of Floors For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution .....	29.73	
		For >25 To 50, Deduct	-2.97	
		For >50 To 200, Deduct	-5.94	
		For >200, Deduct	-8.91	
		For Cleaning Surfaces With Goldshield® GS5, Add	14.46	
		For Level 1 Biohazard Cleaning, Deduct	-5.94	
		For Level 3 Biohazard Cleaning, Add	9.80	
02 87 19 00-0073	CSF	Cleaning Of Walls For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution .....	34.96	
		For >25 To 50, Deduct	-3.49	
		For >50 To 200, Deduct	-6.99	
		For >200, Deduct	-10.48	
		For Cleaning Surfaces With Goldshield® GS5, Add	14.46	
		For Level 1 Biohazard Cleaning, Deduct	-6.99	
		For Level 3 Biohazard Cleaning, Add	11.53	
02 87 19 00-0074	CSF	Cleaning Of Ceilings For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution .....	39.77	
		For >25 To 50, Deduct	-3.97	
		For >50 To 200, Deduct	-7.95	
		For >200, Deduct	-11.92	
		For Cleaning Surfaces With Goldshield® GS5, Add	14.46	
		For Level 1 Biohazard Cleaning, Deduct	-7.95	
		For Level 3 Biohazard Cleaning, Add	13.11	
02 87 19 00-0075	CSF	Cleaning Of Countertops For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution .....	32.42	
		For Cleaning Surfaces With Goldshield® GS5, Add	14.46	
		For >5 To 10, Deduct	-1.62	
		For >10 To 50, Deduct	-3.24	
		For >50, Deduct	-6.48	
		For Level 1 Biohazard Cleaning, Deduct	-6.48	
		For Level 3 Biohazard Cleaning, Add	10.69	
02 87 19 00-0076	CSF	Cleaning Of Other Surfaces For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution .....	41.15	
		For >25 To 50, Deduct	-4.11	
		For >50 To 200, Deduct	-8.22	
		For >200, Deduct	-12.34	
		For Cleaning Surfaces With Goldshield® GS5, Add	14.46	
		For Level 1 Biohazard Cleaning, Deduct	-8.22	
		For Level 3 Biohazard Cleaning, Add	13.57	
02 87 19 00-0077		<b>Bio-Hazard And Infectious Disease Control Cleaning Of Equipment And Materials</b> <small>(02 87 19 00-0068)</small> Note: Includes spraying of surfaces with mild bleach, wet mop/wipe and disinfect		
02 87 19 00-0078	EA	Cleaning Of Plumbing Fixture For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution .....	76.81	
		For Level 1 Biohazard Cleaning, Deduct	-15.36	
		For Level 3 Biohazard Cleaning, Add	25.34	
		For Cleaning Surfaces With Goldshield® GS5, Add	7.23	
02 87 19 00-0079	EA	Cleaning Of Restroom Accessory For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution .....	35.25	
		For Level 1 Biohazard Cleaning, Deduct	-7.04	
		For Level 3 Biohazard Cleaning, Add	11.62	
		For Cleaning Surfaces With Goldshield® GS5, Add	4.82	
02 87 19 00-0080	EA	Cleaning Of Kitchen Appliance For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution .....	123.74	
		For Level 1 Biohazard Cleaning, Deduct	-24.74	
		For Level 3 Biohazard Cleaning, Add	40.82	
		For Cleaning Surfaces With Goldshield® GS5, Add	7.23	

**02 Existing Conditions****02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0081 EA Cleaning Of Electrical Switch/Receptacle For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution.....	7.64	
For Level 1 Biohazard Cleaning, Deduct	-1.52	
For Level 3 Biohazard Cleaning, Add	2.51	
For Cleaning Surfaces With Goldshield® GS5, Add	1.45	
02 87 19 00-0082 EA Cleaning Of WorkStation, Exterior Wipe For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up.....	114.07	
Note: Includes desk, chair, computer, monitor(s), keyboard, mouse, lamp, drawers		
For Level 1 Biohazard Cleaning, Deduct	-22.81	
For Level 3 Biohazard Cleaning, Add	37.63	
For Cleaning Surfaces With Goldshield® GS5, Add	7.23	
02 87 19 00-0083 EA Cleaning Of Knobs, Latches, And Locks For Bio-Hazard And Infectious Disease Control With Mild Bleach Solution Clean-up.....	12.19	
For Level 1 Biohazard Cleaning, Deduct	-2.43	
For Level 3 Biohazard Cleaning, Add	4.01	
For Cleaning Surfaces With Goldshield® GS5, Add	1.45	
<b>02 87 19 00-0084 Bio-Hazard And Infectious Disease Control Cleaning Of Ductwork (02 87 19 00-0088)</b>		
02 87 19 00-0085 LF Up To 2 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	4.48	
For Level 1 Biohazard Cleaning, Deduct	-0.89	
For Level 3 Biohazard Cleaning, Add	1.47	
02 87 19 00-0086 LF >2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	5.63	
For Level 1 Biohazard Cleaning, Deduct	-1.11	
For Level 3 Biohazard Cleaning, Add	1.84	
02 87 19 00-0087 LF >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	7.54	
For Level 1 Biohazard Cleaning, Deduct	-1.48	
For Level 3 Biohazard Cleaning, Add	2.45	
02 87 19 00-0088 LF >8 SF Cross Section, Clean Supply/Return Ductwork For Bio-Hazard And Infectious Disease Control Cleaning.....	10.68	
For Level 1 Biohazard Cleaning, Deduct	-2.09	
For Level 3 Biohazard Cleaning, Add	3.45	
02 87 19 00-0089 EA Clean Duct Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	200.46	
For Level 1 Biohazard Cleaning, Deduct	-40.09	
For Level 3 Biohazard Cleaning, Add	66.14	
02 87 19 00-0090 SF Clean Duct Dampers And Vane Sets For Bio-Hazard And Infectious Disease Control Cleaning.....	13.95	
For Level 1 Biohazard Cleaning, Deduct	-2.78	
For Level 3 Biohazard Cleaning, Add	4.59	
02 87 19 00-0091 EA Clean Fan Coil Unit (FCU) Or Variable Air Volume (VAV) Unit For Bio-Hazard And Infectious Disease Control Cleaning.....	133.65	
For Level 1 Biohazard Cleaning, Deduct	-26.72	
For Level 3 Biohazard Cleaning, Add	44.09	
02 87 19 00-0092 EA Clean Air Handling Unit Fan And Coil For Bio-Hazard And Infectious Disease Control Cleaning.....	400.90	
For Level 1 Biohazard Cleaning, Deduct	-80.17	
For Level 3 Biohazard Cleaning, Add	132.29	
02 87 19 00-0093 EA Clean Grille/Diffuser/Register For Bio-Hazard And Infectious Disease Control Cleaning.....	33.43	
Note: Includes removal and reinstallation.		
For Level 1 Biohazard Cleaning, Deduct	-6.68	
For Level 3 Biohazard Cleaning, Add	11.02	
02 87 19 00-0094 SF Apply Sporicidin Disinfectant To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.60	
For Level 1 Biohazard Cleaning, Deduct	-0.11	
For Level 3 Biohazard Cleaning, Add	0.18	
02 87 19 00-0095 SF Apply Goldshield® GS5 Anti-microbial Agent To Ductwork And Surfaces After Cleaning For Bio-Hazard And Infectious Disease Control Cleaning.....	0.68	
For Level 1 Biohazard Cleaning, Deduct	-0.11	
For Level 3 Biohazard Cleaning, Add	0.18	
<b>02 87 19 00-0096 Bio-Hazard And Infectious Disease Control Equipment Rental (02 87 19)</b>		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0097 DAY Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	163.58	
02 87 19 00-0098 WK Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	696.73	
02 87 19 00-0099 MO Up To 5,000 CFM Portable Air Scrubber For Bio-Hazard And Infectious Disease Control Clean-up.....	1,950.84	
02 87 19 00-0100 DAY Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up.....	154.91	
02 87 19 00-0101 WK Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up.....	426.01	
02 87 19 00-0102 MO Industrial High Efficiency Particulate Air (HEPA) Vacuum For Bio-Hazard And Infectious Disease Control Clean-up.....	1,161.83	
02 87 19 00-0103 DAY Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	45.56	
02 87 19 00-0104 WK Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	125.30	
02 87 19 00-0105 MO Zip Wall Poles (Per 2 Poles) For Bio-Hazard And Infectious Disease Control Clean-up.....	341.72	
02 87 19 00-0106 DAY Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	120.46	
02 87 19 00-0107 WK Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	494.73	
02 87 19 00-0108 MO Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And High Efficiency Particulate Air (HEPA) Filter For Bio-Hazard And Infectious Disease Control Clean-up.....	1,494.94	
02 87 19 00-0109 EA High Efficiency Particulate Air (HEPA) Filter, 99.99% Efficient At 0.3 Micron For Negative Air Machine For Bio-Hazard And Infectious Disease Control Clean-up.....	199.93	
Note: Required if over 800 hours operation.		



<b>Existing Conditions</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>
<b>Bio-Hazard Material Remediation</b>	<b>02 87</b>

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0110 DAY 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	432.03	
02 87 19 00-0111 WK 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	864.07	
02 87 19 00-0112 MO 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,728.13	
02 87 19 00-0113 DAY 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	576.04	
02 87 19 00-0114 WK 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,152.09	
02 87 19 00-0115 MO 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,304.18	
02 87 19 00-0116 DAY 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	972.69	
02 87 19 00-0117 WK 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,945.37	
02 87 19 00-0118 MO 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	3,890.75	
02 87 19 00-0119 DAY 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,296.92	
02 87 19 00-0120 WK 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	2,593.83	
02 87 19 00-0121 MO 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	5,187.66	
02 87 19 00-0122 DAY 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	1,621.14	
02 87 19 00-0123 WK 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	3,242.29	
02 87 19 00-0124 MO 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up.....	6,484.58	
02 87 19 00-0125 EA Set-Up 20' x 20' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	122.26	
02 87 19 00-0126 EA Set-Up 20' x 40' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	244.53	
02 87 19 00-0127 EA Set-Up 20' x 60' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	733.58	
02 87 19 00-0128 EA Set-Up 20' x 80' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	1,467.16	
02 87 19 00-0129 EA Set-Up 20' x 100' High Peak Frame Tent For Bio-Hazard And Infectious Disease Control Clean-up..... Note: Includes staking down tent.	2,445.27	
02 87 19 00-0130 DAY Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....	94.47	
02 87 19 00-0131 WK Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....	259.80	
02 87 19 00-0132 MO Portable Dual Sink Wash Station For Bio-Hazard And Infectious Disease Control Clean-up.....	708.53	
<b>02 87 19 00-0133 Bio-Hazard And Infectious Disease Control Hauling By Truck (02 87 19)</b> Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one-way mileage) using an appropriately sized truck.		
02 87 19 00-0134 EA Hauling With 2-3 CY Pick-up Truck, Van Or Trailer, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up..... Note: Each first 15 miles per trip	106.72	
For Each Additional Mile Over First 15 Miles, Add Per Mile	1.33	
02 87 19 00-0135 EA Hauling With 6 To 8 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Control Clean Up..... Note: Each first 15 miles per trip	174.12	
For Each Additional Mile Over First 15 Miles, Add Per Mile	2.18	
02 87 19 00-0136 EA Hauling With 10 To 12 CY Dump Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up..... Note: Each first 15 miles per trip	180.01	
For Each Additional Mile Over First 15 Miles, Add Per Mile	2.25	
02 87 19 00-0137 EA Hauling With 16' To 20', Box Or Flat Bed Truck, Up To 15 Miles For Bio-Hazard And Infectious Disease Control Clean Up..... Note: Each first 15 miles per trip	178.54	
For Each Additional Mile Over First 15 Miles, Add Per Mile	2.23	
<b>02 87 19 00-0138 Bio-Hazard And Infectious Disease Control Disposal (02 87 19)</b> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0139 CY Bio-Hazard And Infectious Disease Control Landfill Dump Fee.....	118.56	
<b>02 87 19 00-0140 BLU-MED Response Systems® (BLU-MED) Deployable Medical Facilities™ and Emergency Shelters (02 87 19)</b> Note: Includes delivery and set-up of facility, electrical, lighting and HVAC. Excludes medical equipment.		
02 87 19 00-0141 EA 20' x 32.5' Medical Shelter with 1-phase electrical, 60 Hertz (BLU-MED BM-2032.5-MS/1P).....	44,973.14	
02 87 19 00-0142 EA 7' x 8' Entry Vestibule (BLU-MED BM-MS-VEST).....	4,323.42	
02 87 19 00-0143 EA Vestibule End Panel with Bump Thru Door (BLU-MED BM-7x8-VEP04).....	7,153.52	
02 87 19 00-0144 SF Sub Flooring For Medical Shelter (AKS-AB846).....	6.68	
02 87 19 00-0145 EA Upgrade To Large Roto-Mold Container, Blue (AK-ULC-5).....	1,963.48	
02 87 19 00-0146 EA Environmental Control Unit-5 Ton, 60 Hertz, Blue (AK-ECU-5T-5).....	32,159.53	
02 87 19 00-0147 EA 3' ECU to Generator Pigtail, 60 Hertz (AKS-AC915).....	1,120.94	
02 87 19 00-0148 EA Negative Pressure Isolation (NPI) System (AK-NPIS-5)..... Note: Including: (1) Germicidal/high efficiency particulate air (HEPA) Filter Unit; (1) Monitor/Alarm with Motorized Damper; (1) Isolation Partition for 20'-Wide Shelter; (1) NPI Accessories Case	50,618.56	
02 87 19 00-0149 EA 6' Step Ladder (AKS-AC595).....	305.31	
02 87 19 00-0150 EA 10 Lbs Sledgehammer (AKS-AA268).....	92.51	
<b>02 87 19 00-0151 Bio-Hazard And Infectious Disease Time And Material Tasks (02 87 19)</b> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
<b>02 87 19 00-0152 Bio-Hazard And Infectious Disease Control Labor (02 87 19 00-0151)</b> Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0153 HR General Laborer For Bio-Hazard And Infectious Disease Control Clean Up.....	100.51	
02 87 19 00-0154 HR Skilled Tradesman For Bio-Hazard And Infectious Disease Control Clean Up.....	150.92	
02 87 19 00-0155 HR Biohazard Technician For Bio-Hazard And Infectious Disease Control Clean Up.....	101.65	

**02 Existing Conditions****02 80 Facility Remediation****02 87 Bio-Hazard Material Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 19 00-0156 HR Biohazard Supervisor For Bio-Hazard And Infectious Disease Control Clean Up .....	122.22	
02 87 19 00-0157 HR Project Manager For Bio-Hazard And Infectious Disease Control Clean Up .....	134.42	
<b>02 87 19 00-0158 Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment</b> <small>(02 87 19 00-0151)</small>		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections.		
02 87 19 00-0159 EA Tyvek Coveralls For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment.....	15.08	
02 87 19 00-0160 EA Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....	23.49	
02 87 19 00-0161 PR Polycarbonate Lens Safety Goggles For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....	15.22	
02 87 19 00-0162 EA Dual Cartridge Half-Mask Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....	124.85	
02 87 19 00-0163 EA Cartridge - Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....	52.70	
02 87 19 00-0164 EA Full Face Respirator For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....	380.90	
Note: Respirator Connection Type: Bayonet, 4 pt. Full Face Suspension		
02 87 19 00-0165 EA 14-1/2" Width x 9" Height Polycarbonate Visor Faceshield For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....	52.07	
Note: Includes basic impact ratchet headgear and faceshield safety system. ANSI Z87.1-2010		
02 87 19 00-0166 EA 19" Width x 11" Height Polycarbonate Visor Attachment To Hardhat For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment.....	94.60	
Note: Includes clear polycarbonate crown and chin guard system for hardhat. The chin guard extends below the chin, the shield extends passed the ear, and the crown extends over the forehead to the front of the hardhat. ANSI Z87.1-2015. Excludes hardhat.		
02 87 19 00-0167 BOX Box of 100, 5 Mil, Disposable Latex Gloves For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....	27.34	
02 87 19 00-0168 EA Gloves - Rubber (Heavy Duty) For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment .....	23.35	
02 87 19 00-0169 EA Belt-Mounted, Universal Mask, Powered Air Purifying Respirator (PAPR) System Kit For Bio-Hazard And Infectious Control Clean Up Personal Protection Equipment.....	2,546.01	
Note: Kit includes NIOSH Approved with Draeger DHR 7000, C420 Blower, Single-Speed Toggle, Battery - LiSO2 (BA5800/U), C420 Breathing Tube Assembly with 75 Degrees Swivel, Decon Belt Assembly 70" x 2", C420 Airflow Indicator (Afi), Micronel Safety M95 Cartridge (2), Molded Case, Black, CBRN Breathing Tube Assembly		
<b>02 87 19 00-0170 Bio-Hazard And Infectious Disease Control Expendables</b> <small>(02 87 19 00-0151)</small>		
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Bio-Hazard And Infectious Control Clean Up sections. See CSI section 01 56 16 00-0001 for temporary sheeting, 01 56 16 00-0031 for temporary walls.		
02 87 19 00-0171 GAL Bleach For Bio-Hazard And Infectious Disease Control Clean-up .....	11.76	
02 87 19 00-0172 EA N95 Masks For Bio-Hazard And Infectious Disease Control Clean-up .....	4.19	
02 87 19 00-0173 GAL Disinfectant/Anti-microbial For Bio-Hazard And Infectious Disease Control Clean Up .....	115.22	
02 87 19 00-0174 GAL Goldshield® GS5 Anti-microbial Concentrate For Bio-Hazard And Infectious Disease Control Clean-up .....	346.92	
Note: Mix 1 gallon in 5 gallons of water to produce 6 gallons of ready-to-use product. Use on any surface for bacterial inhibition up to 30 days		
02 87 19 00-0175 QT Hand Sanitizer For Bio-Hazard And Infectious Disease Control Clean-up.....	11.62	
02 87 19 00-0176 EA Sponges - Dry For Bio-Hazard And Infectious Disease Control Clean-up .....	5.97	
02 87 19 00-0177 ROL Tape - Duct, 2" x 50 YD For Bio-Hazard And Infectious Disease Control Clean-up .....	15.00	
02 87 19 00-0178 EA UV Mini Light, Handheld For Bio-Hazard And Infectious Disease Control Clean-up .....	75.80	
02 87 19 00-0179 ROL Visqueen 1 Mil, 12' x 400', For Bio-Hazard And Infectious Disease Control Clean-up .....	60.44	
02 87 19 00-0180 LB Wipes, Terry Cloth 14" x 17" For Bio-Hazard And Infectious Disease Control Clean-up .....	8.48	
02 87 19 00-0181 EA Wyp-Alls, Case, 160 Wipes For Bio-Hazard And Infectious Disease Control Clean-up.....	18.67	
02 87 19 00-0182 ROL 6 Mil, 55 Gallon Trash Bags, 50/Roll For Bio-Hazard And Infectious Disease Control Clean Up .....	186.07	
<b>02 89 Hazmat Ancillary Tasks and Support</b> <small>(02 80)</small>		
<b>02 89 00 00-0001 Barriers and Protection</b> <small>(02 89)</small>		
Note: Includes removal and disposal after use.		
<b>02 89 00 00-0002 Isolation Barriers</b> <small>(02 89 00 00-0001)</small>		
See CSI section 01 56 16 00-0031 for temporary stud walls.		
<b>02 89 00 00-0003 Cleaning Surfaces</b> <small>(02 89 00 00-0001)</small>		
Note: Other surfaces outside contamination area but not contaminated by, or part of removal.		
02 89 00 00-0004 SF Up To 100 SF, Clean Non-Asbestos Surface .....	1.83	
02 89 00 00-0005 SF >100 To 500 SF, Clean Non-Asbestos Surface.....	1.29	
02 89 00 00-0006 SF >500 To 1,000 SF, Clean Non-Asbestos Surface .....	0.84	
02 89 00 00-0007 SF >1,000 SF, Clean Non-Asbestos Surface .....	0.66	
<b>02 89 00 00-0008 Hazmat Containment Construction Plastic Sheeting</b> <small>(02 89 00 00-0001)</small>		
02 89 00 00-0009 SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction .....	0.45	
02 89 00 00-0010 SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction .....	0.60	
02 89 00 00-0011 SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction .....	0.80	
02 89 00 00-0012 SF 6 Mil Plastic Fire Retardant, Anti-static Sheeting, Applied To Floors, Hazmat Containment Construction.....	0.73	
02 89 00 00-0013 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction .....	0.92	
02 89 00 00-0014 SF 6 Mil Plastic Fire Retardant, Anti-static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction .....	1.21	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 89 00 00-0015			<b>Decontamination Chambers</b> <small>(02 89)</small> Note: Includes removal after use.		
02 89 00 00-0016	EA		3 Stage Portable Personnel Decontamination Wash Facility.....	1,031.90	
			Note: Includes connection to negative air system.		
02 89 00 00-0017	EA		5 Stage Portable Personnel Decontamination Wash Facility.....	1,216.84	
			Note: Includes connection to negative air system.		
02 89 00 00-0018	EA		Portable Waste Decontamination Unit.....	635.00	
			Note: Includes connection to negative air system.		
			<i>For Dismantling And Relocation To A Different Area, Add</i>	412.73	

**02 90 Disaster Recovery** (02)

Note: The tasks in this division are only to be used when specifically requested by the Owner and are not to be combined with tasks from other divisions of this or other Construction Task Catalogs® unless specifically requested by the Owner.

**02 90 50 Cleaning and Disaster Clean-up** (02 90)

02 90 50 00-0001			<b>Non-Mold Contaminated Wet Material Removal</b> <small>(02 90 50)</small> Note: For materials not requiring mold abatement.		
02 90 50 00-0002	SY		Wet Broadloom Carpet Removal For Disaster Clean-up.....	24.79	
02 90 50 00-0003	SY		Wet Carpet Tile Removal For Disaster Clean-up.....	6.03	
02 90 50 00-0004	SF		Wet Batt Insulation Removal For Disaster Clean-up.....	0.50	
02 90 50 00-0005	SF		Wet Ceiling Tile Removal For Disaster Clean-up.....	0.60	
02 90 50 00-0006	SF		Single Layer, Wet Gypsum Board Removal For Disaster Clean-up.....	0.59	
02 90 50 00-0007	SF		Double Layer, Wet Gypsum Board Removal For Disaster Clean-up.....	0.92	

02 90 50 00-0008			<b>Cleaning</b> <small>(02 90 50)</small> Note: Use "Light Clean" when soot or dust is barely evident. Use "Medium Clean" when paint color can be seen through the soot or dust. Use "Heavy Clean" when paint color cannot be seen. Includes all man power, equipment and expendables required		
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02 90 50 00-0009			<b>Clean Furnishings</b> <small>(02 90 50 00-0008)</small>		
02 90 50 00-0010	EA		Office Equipment, Exterior Wipe For Disaster Clean-up.....	27.90	
			<i>For Medium Clean, Add</i>	11.72	
			<i>For Heavy Clean, Add</i>	36.27	
02 90 50 00-0011	SF		Bookcase (Per SF Of Face Area), Light Clean For Disaster Clean-up.....	1.55	
			<i>For Medium Clean, Add</i>	0.65	
			<i>For Heavy Clean, Add</i>	2.02	
02 90 50 00-0012	LF		Shelving, Light Clean For Disaster Clean-up.....	2.79	
			<i>For Medium Clean, Add</i>	1.17	
			<i>For Heavy Clean, Add</i>	3.63	
02 90 50 00-0013	EA		Plastic Or Metal Chair, Light Clean For Disaster Clean-up.....	8.06	
			<i>For Medium Clean, Add</i>	3.39	
			<i>For Heavy Clean, Add</i>	10.48	
02 90 50 00-0014	EA		Upholstered Chair, Light Clean For Disaster Clean-up.....	26.04	
			<i>For Medium Clean, Add</i>	10.94	
			<i>For Heavy Clean, Add</i>	33.85	
02 90 50 00-0015	EA		Upholstered Sofa, Light Clean For Disaster Clean-up.....	160.58	
			<i>For Medium Clean, Add</i>	67.44	
			<i>For Heavy Clean, Add</i>	208.75	
02 90 50 00-0016	EA		Desk, Light Clean For Disaster Clean-up.....	32.87	
			<i>For Medium Clean, Add</i>	13.81	
			<i>For Heavy Clean, Add</i>	42.73	
02 90 50 00-0017	EA		Table, Light Clean For Disaster Clean-up.....	31.00	
			<i>For Medium Clean, Add</i>	13.02	
			<i>For Heavy Clean, Add</i>	40.30	
02 90 50 00-0018	EA		Two Drawer File Cabinet, Light Clean For Disaster Clean-up.....	6.80	
			<i>For Medium Clean, Add</i>	2.86	
			<i>For Heavy Clean, Add</i>	8.84	
02 90 50 00-0019	EA		Four Drawer File Cabinet, Light Clean For Disaster Clean-up.....	8.70	
			<i>For Medium Clean, Add</i>	3.65	
			<i>For Heavy Clean, Add</i>	11.31	
02 90 50 00-0020	LF		Base Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up.....	7.13	
			<i>For Medium Clean, Add</i>	2.99	
			<i>For Heavy Clean, Add</i>	9.27	
02 90 50 00-0021	LF		Base Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up.....	13.95	
			<i>For Medium Clean, Add</i>	5.86	
			<i>For Heavy Clean, Add</i>	18.14	
02 90 50 00-0022	LF		Wall Cabinet, Exterior Wipe, Light Clean For Disaster Clean-up.....	7.13	
			<i>For Medium Clean, Add</i>	2.99	
			<i>For Heavy Clean, Add</i>	9.27	
02 90 50 00-0023	LF		Wall Cabinet, Exterior And Interior Wipe, Light Clean For Disaster Clean-up.....	12.41	
			<i>For Medium Clean, Add</i>	5.21	
			<i>For Heavy Clean, Add</i>	16.13	
02 90 50 00-0024	EA		Picture Frame, Glass And Back, Light Clean For Disaster Clean-up.....	2.97	
			<i>For Medium Clean, Add</i>	1.25	
			<i>For Heavy Clean, Add</i>	3.86	

02 90 50 00-0025			<b>Clean Hard Surfaces</b> <small>(02 90 50 00-0008)</small>		
02 90 50 00-0026	LF		Wood, Vinyl Or Rubber Baseboard, Light Clean For Disaster Clean-up.....	0.41	
			<i>For Medium Clean, Add</i>	0.17	
			<i>For Heavy Clean, Add</i>	0.53	

**02 Existing Conditions****02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0027 EA Door And Hardware (Per Side), Light Clean For Disaster Clean-up .....	5.27	
For Medium Clean, Add	2.21	
For Heavy Clean, Add	6.85	
02 90 50 00-0028 EA Detailed Door And Hardware (Per Side), Light Clean For Disaster Clean-up .....	5.97	
For Medium Clean, Add	2.51	
For Heavy Clean, Add	7.76	
02 90 50 00-0029 SF Overhead Door, Light Clean For Disaster Clean-up .....	0.42	
For Medium Clean, Add	0.18	
For Heavy Clean, Add	0.55	
02 90 50 00-0030 SF Mirror, Light Clean For Disaster Clean-up .....	0.31	
For Medium Clean, Add	0.13	
For Heavy Clean, Add	0.40	
02 90 50 00-0031 SF Window, Light Clean For Disaster Clean-up .....	0.91	
For Medium Clean, Add	0.38	
For Heavy Clean, Add	1.18	
02 90 50 00-0032 LF Handrail, Light Clean For Disaster Clean-up .....	0.81	
For Medium Clean, Add	0.34	
For Heavy Clean, Add	1.05	
02 90 50 00-0033 LF Bumper Rail, Light Clean For Disaster Clean-up .....	0.44	
For Medium Clean, Add	0.18	
For Heavy Clean, Add	0.57	
02 90 50 00-0034 SF Hard Floor, Light Clean For Disaster Clean-up .....	0.36	
For Medium Clean, Add	0.15	
For Heavy Clean, Add	0.47	
02 90 50 00-0035 SF Carpet, Light Clean For Disaster Clean-up .....	0.37	
For Medium Clean, Add	0.16	
For Heavy Clean, Add	0.48	
02 90 50 00-0036 SF Hard Ceiling, Light Clean For Disaster Clean-up .....	0.28	
For Medium Clean, Add	0.12	
For Heavy Clean, Add	0.36	
02 90 50 00-0037 SF Suspended Ceiling, Tile And Grid, Light Clean For Disaster Clean-up .....	0.31	
For Medium Clean, Add	0.13	
For Heavy Clean, Add	0.40	
02 90 50 00-0038 SF Ceramic Tile Wall, Light Clean For Disaster Clean-up .....	0.26	
For Medium Clean, Add	0.11	
For Heavy Clean, Add	0.34	
02 90 50 00-0039 SF Wall, Light Clean For Disaster Clean-up .....	0.19	
For Medium Clean, Add	0.08	
For Heavy Clean, Add	0.25	
02 90 50 00-0040 SF Masonry Wall, Light Clean For Disaster Clean-up .....	0.26	
For Medium Clean, Add	0.11	
For Heavy Clean, Add	0.34	
02 90 50 00-0041 EA Up To 24 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up .....	65.38	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	27.46	
For Heavy Clean, Add	84.99	
02 90 50 00-0042 EA >24 To 96 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up .....	81.73	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	34.33	
For Heavy Clean, Add	106.25	
02 90 50 00-0043 EA >96 To 140 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up .....	98.07	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	41.19	
For Heavy Clean, Add	127.49	
02 90 50 00-0044 EA >140 To 216 SF Area Rug, Off-Site Cleaning, Light Clean For Disaster Clean-up .....	114.42	
For Medium Clean, Add	48.06	
For Heavy Clean, Add	148.75	
<b>02 90 50 00-0045 Clean Window Treatments (02 90 50 00-0008)</b>		
02 90 50 00-0046 SF Window Blind, Light Clean For Disaster Clean-up .....	0.71	
For Medium Clean, Add	0.30	
For Heavy Clean, Add	0.92	
02 90 50 00-0047 EA Up To 6' Long Drapery (Per Pleat), Light Clean For Disaster Clean-up .....	1.45	
For Medium Clean, Add	0.61	
For Heavy Clean, Add	1.89	
02 90 50 00-0048 EA Up To 6' Long Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up .....	1.68	
For Medium Clean, Add	0.71	
For Heavy Clean, Add	2.18	
02 90 50 00-0049 EA >6' To 8' Drapery (Per Pleat), Light Clean For Disaster Clean-up .....	1.52	
For Medium Clean, Add	0.64	
For Heavy Clean, Add	1.98	
02 90 50 00-0050 EA >6' To 8' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up .....	1.75	
For Medium Clean, Add	0.74	
For Heavy Clean, Add	2.28	
02 90 50 00-0051 EA >8' To 10' Drapery (Per Pleat), Light Clean For Disaster Clean-up .....	1.87	
For Medium Clean, Add	0.79	
For Heavy Clean, Add	2.43	
02 90 50 00-0052 EA >8' To 10' Lined Drapery (Per Pleat), Light Clean For Disaster Clean-up .....	2.15	
For Medium Clean, Add	0.90	
For Heavy Clean, Add	2.80	
<b>02 90 50 00-0053 Clean Appliances (02 90 50 00-0008)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0054 EA Microwave Oven, Outside, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	12.84 5.39 16.69	
02 90 50 00-0055 EA Refrigerator, Outside, Light Clean For Disaster Clean-up ..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	30.26 12.71 39.34	
02 90 50 00-0056 EA Range, Outside, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	26.15 10.98 34.00	
<b>02 90 50 00-0057 Clean Plumbing (02 90 50 00-0008)</b>		
02 90 50 00-0058 EA Water Heater, Light Clean For Disaster Clean-up ..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	18.60 7.81 24.18	
02 90 50 00-0059 EA Plumbing Fixture, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	18.78 7.89 24.41	
02 90 50 00-0060 EA Restroom Accessory, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	8.62 3.62 11.21	
<b>02 90 50 00-0061 Clean HVAC (02 90 50 00-0008)</b>		
02 90 50 00-0062 LF Baseboard Heater, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	5.55 2.33 7.22	
02 90 50 00-0063 LF Ductwork, Exterior Wipe, Light Clean For Disaster Clean-up ..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	15.50 6.51 20.15	
02 90 50 00-0064 EA Ductwork, Interior (Per Grille/Register), Light Clean For Disaster Clean-up ..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	59.53 25.00 77.39	
02 90 50 00-0065 EA Grille/Register, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	5.58 2.34 7.25	
02 90 50 00-0066 EA Air Handling Unit, Exterior Wipe, Light Clean For Disaster Clean-up ..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	38.64 16.23 50.23	
02 90 50 00-0067 EA Furnace, Exterior Wipe, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	34.41 14.45 44.73	
<b>02 90 50 00-0068 Clean Electrical (02 90 50 00-0008)</b>		
02 90 50 00-0069 EA Electric Fan, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	22.94 9.63 29.82	
02 90 50 00-0070 EA Ceiling Fan, Light Clean For Disaster Clean-up ..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	24.80 10.42 32.24	
02 90 50 00-0071 EA Ceiling Fan And Light, Light Clean For Disaster Clean-up ..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	32.24 13.54 41.91	
02 90 50 00-0072 EA Ceiling Exhaust Fan, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	22.64 9.51 29.43	
02 90 50 00-0073 EA 2' x 4' Light Fixture, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	14.88 6.25 19.34	
02 90 50 00-0074 EA Light Fixture, Light Clean For Disaster Clean-up..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	6.82 2.86 8.87	
02 90 50 00-0075 EA Smoke Detector, Light Clean For Disaster Clean-up ..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	5.27 2.21 6.85	
02 90 50 00-0076 EA Thermostat, Light Clean For Disaster Clean-up ..... <i>For Medium Clean, Add</i> <i>For Heavy Clean, Add</i>	1.86 0.78 2.42	
<b>02 90 50 00-0077 Thermal Fog (02 90 50 00-0008)</b>		
02 90 50 00-0078 CF Clean And Deodorize Building With Thermal Fog For Disaster Clean-up.....	0.02	
<b>02 90 50 00-0079 Contents Manipulation (02 90 50)</b>		
02 90 50 00-0080 SF Cover Contents With 6 Mil Plastic Sheeting For Disaster Clean-up.....	0.24	
02 90 50 00-0081 SF Floor Protection, Adhesive Film For Disaster Clean-up.....	0.30	
02 90 50 00-0082 SF Move Contents Out And Later Reset For Disaster Clean-up.....	0.49	
02 90 50 00-0083 MO 20' Long Job Site Storage Trailer For Disaster Clean-up.....	191.74	
02 90 50 00-0084 MO 40' Long Job Site Storage Trailer For Disaster Clean-up.....	254.28	
02 90 50 00-0085 EA Delivery Or Pickup Job Site Storage Trailer For Disaster Clean-up.....	144.22	

**02 Existing Conditions****02 90 Disaster Recovery****02 90 50 Cleaning and Disaster Clean-up**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0086			<b>Water Disaster Clean-up</b> (02 90 50)		
02 90 50 00-0087	LF		Detach Baseboard For Disaster Clean-up .....	0.68	
02 90 50 00-0088	LF		Detach And Later Reset Baseboard For Disaster Clean-up .....	1.20	
02 90 50 00-0089	EA		Block And Pad Furniture (Per Piece Of Furniture) For Disaster Clean-up .....	4.44	
02 90 50 00-0090	SF		Water Extraction From Floor For Disaster Clean-up .....	0.46	
02 90 50 00-0091	SF		Gray Water Extraction From Floor For Disaster Clean-up .....	0.74	
02 90 50 00-0092	SF		Black Water Extraction From Floor For Disaster Clean-up .....	1.17	
02 90 50 00-0093	SF		Tear Out Wet Non-Salvageable Carpet For Disaster Clean-up .....	0.37	
02 90 50 00-0094	SF		Tear Out Wet Non-Salvageable Carpet, Black Water For Disaster Clean-up .....	0.43	
02 90 50 00-0095	SF		Tear Out Wet Non-Salvageable Glue Down Carpet For Disaster Clean-up .....	0.65	
02 90 50 00-0096	SF		Tear Out Wet Non-Salvageable Glue Down Carpet, Black Water For Disaster Clean-up .....	0.95	
02 90 50 00-0097	SF		Tear Out Vinyl Flooring For Disaster Clean-up .....	0.90	
02 90 50 00-0098	SF		Tear Out Vinyl Flooring, Black Water For Disaster Clean-up .....	1.33	
02 90 50 00-0099	SF		Tear Out Wood Flooring, Black Water For Disaster Clean-up .....	3.43	
02 90 50 00-0100	SF		Tear Out Laminated Wood Flooring For Disaster Clean-up .....	1.68	
02 90 50 00-0101	SF		Tear Out Laminated Wood Flooring, Black Water For Disaster Clean-up .....	2.48	
02 90 50 00-0102	SF		Tear Out Wet Ceiling Tile For Disaster Clean-up .....	0.29	
02 90 50 00-0103	SF		Tear Out Batt Insulation For Disaster Clean-up .....	0.29	
02 90 50 00-0104	SF		Tear Out Wet Gypsum Board For Disaster Clean-up .....	0.48	
02 90 50 00-0105	SF		Apply Anti-microbial Agent For Disaster Clean-up .....	0.28	
02 90 50 00-0106	SF		High Efficiency Particulate Air (HEPA) Vacuuming For Disaster Clean-up .....	0.36	
02 90 50 00-0107			<b>Board Up And Tarp Up</b> (02 90 50)		
02 90 50 00-0108	SF		Polyethylene Tarp On Roof For Disaster Clean-up .....	0.27	
02 90 50 00-0109	SF		1/2" Temporary Plywood On Roof For Disaster Clean-up .....	1.44	
02 90 50 00-0110	SF		5/8" Temporary Plywood On Roof For Disaster Clean-up .....	1.62	
02 90 50 00-0111	SF		3/4" Temporary Plywood On Roof For Disaster Clean-up .....	1.76	
02 90 50 00-0112	SF		1/2" Temporary Plywood On Wall Or Windows For Disaster Clean-up .....	1.81	
02 90 50 00-0113	SF		5/8" Temporary Plywood On Wall Or Windows For Disaster Clean-up .....	1.99	
02 90 50 00-0114	SF		3/4" Temporary Plywood On Wall Or Windows For Disaster Clean-up .....	2.13	
02 90 50 00-0115			<b>Minimum Charges</b> (02 90 50)		
02 90 50 00-0116	EA		Disaster Cleaning Minimum Charge .....	1,395.63	
02 90 50 00-0117	EA		Disaster Water Extraction Minimum Charge .....	289.38	
02 90 50 00-0118	EA		Disaster Carpet Cleaning Minimum Charge .....	246.88	
02 90 50 00-0119			<b>Document Restoration</b> (02 90 50)		
02 90 50 00-0120	EA		Book Rebinding, Each For Document Restoration .....	127.49	
02 90 50 00-0121	EA		Book Recasing, Each For Document Restoration .....	63.74	
02 90 50 00-0122	EA		Boxes-MCS, 1.2 CF For Document Restoration .....	9.07	
02 90 50 00-0123	EA		Boxes-MCS, 2.0 CF For Document Restoration .....	10.01	
02 90 50 00-0124	EA		Boxes Bankers For Document Restoration .....	20.37	
02 90 50 00-0125	EA		Boxes Standard Packout For Document Restoration .....	5.81	
02 90 50 00-0126	EA		Boxes X Ray For Document Restoration .....	12.76	
02 90 50 00-0127	EA		CD Scanning and Diagnostics, Each For Document Restoration .....	12.76	
02 90 50 00-0128	EA		Cleaning Antique Books, Each For Document Restoration .....	382.45	
02 90 50 00-0129	EA		Cleaning Catheter Roll, Per Roll For Document Restoration .....	50.98	
02 90 50 00-0130	EA		Cleaning CD And DVD, Per Disc For Document Restoration .....	5.12	
02 90 50 00-0131	EA		Cleaning Level 1 - Blue Prints, Each For Document Restoration .....	4.06	
02 90 50 00-0132	CF		Cleaning Level 1 - Document Per CF For Document Restoration .....	125.69	
02 90 50 00-0133	EA		Cleaning Level 1 - Linen, Each For Document Restoration .....	4.06	
02 90 50 00-0134	EA		Cleaning Level 1 - Mylar, Each For Document Restoration .....	4.06	
02 90 50 00-0135	EA		Cleaning Level 2 - Blue Print, Each For Document Restoration .....	5.04	
02 90 50 00-0136	CF		Cleaning Level 2 - Document Per CF For Document Restoration .....	188.36	
02 90 50 00-0137	EA		Cleaning Level 2 - Linen, Each For Document Restoration .....	5.04	
02 90 50 00-0138	EA		Cleaning Level 2 - Mylar, Each For Document Restoration .....	5.04	
02 90 50 00-0139	EA		Cleaning Level 3 - Blue Prints, Each For Document Restoration .....	7.15	
02 90 50 00-0140	CF		Cleaning Level 3 - Document Per CF For Document Restoration .....	251.33	
02 90 50 00-0141	EA		Cleaning Level 3 - Linen, Each For Document Restoration .....	7.15	
02 90 50 00-0142	EA		Cleaning Level 3 - Mylar, Each For Document Restoration .....	7.15	
02 90 50 00-0143	EA		Cleaning Level 4 - All Fire-Blue Print, Each For Document Restoration .....	10.02	
02 90 50 00-0144	EA		Cleaning Level 4 - All Fire-Linen, Each For Document Restoration .....	10.02	
02 90 50 00-0145	EA		Cleaning Level 4 - All Fire-Mylar, Each For Document Restoration .....	10.02	
02 90 50 00-0146	CF		Cleaning Level 4 - Light Fire-Documnt Per CF For Document Restoration .....	314.11	
02 90 50 00-0147	EA		Cleaning Level 5 - Severe Fire-Blue Print, Each For Document Restoration .....	11.10	
02 90 50 00-0148	CF		Cleaning Level 5 - Severe Fire-Documnt Per CF For Document Restoration .....	471.30	
02 90 50 00-0149	EA		Cleaning Level 5 - Severe Fire-Linen, Each For Document Restoration .....	11.10	
02 90 50 00-0150	EA		Cleaning Level 5 - Severe Fire-Mylar, Each For Document Restoration .....	11.10	
02 90 50 00-0151	EA		Cleaning Microfiche Sheets, Each For Document Restoration .....	3.94	
02 90 50 00-0152	EA		Cleaning Microfiche Strips, Each For Document Restoration .....	0.91	
02 90 50 00-0153	EA		Cleaning Microfilm Rolls (In House), Per Roll For Document Restoration .....	127.49	
02 90 50 00-0154	EA		Cleaning Microfilm Rolls (Outside), Per Roll For Document Restoration .....	178.49	
02 90 50 00-0155	EA		Cleaning Photographs Negatives, Per Negative For Document Restoration .....	3.94	
02 90 50 00-0156	EA		Cleaning Photographs, Each For Document Restoration .....	0.91	
02 90 50 00-0157	EA		Cleaning Record Albums, Each For Document Restoration .....	5.12	
02 90 50 00-0158	EA		Cleaning VHS And Beta Tapes-In House, Each For Document Restoration .....	12.76	
02 90 50 00-0159	EA		Cleaning VHS And Beta Tapes-Outside, Each For Document Restoration .....	50.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0160 EA Cleaning X Ray 1-1000, Per Film For Document Restoration .....	5.38	
02 90 50 00-0161 EA Cleaning X Ray 1K-5K, Per Film For Document Restoration .....	4.59	
02 90 50 00-0162 EA Cleaning X Ray 5K-Up, Per Film For Document Restoration .....	3.60	
02 90 50 00-0163 EA Copying Clean Water, Per Page For Document Restoration .....	0.52	
02 90 50 00-0164 EA Copying Greywater Fire, Per Page For Document Restoration .....	1.38	
02 90 50 00-0165 CF Deodorization, Vapor Tech For Document Restoration .....	9.22	
02 90 50 00-0166 CF Disinfectant-Fogging For Document Restoration .....	17.88	
02 90 50 00-0167 EA Document Disposal In House No Shredding For Document Restoration.....	71.62	
02 90 50 00-0168 EA Document Disposal In House With Shredding For Document Restoration.....	19.54	
02 90 50 00-0169 CF Up To 150 CF, Drying-MCS Center For Document Restoration .....	229.47	
02 90 50 00-0170 CF >150 To 500 CF, Drying-MCS Center For Document Restoration .....	178.49	
02 90 50 00-0171 CF >500 CF, Drying-MCS Center For Document Restoration.....	152.98	
02 90 50 00-0172 CF >50 To 150 CF, Drying-MCS Center For Document Restoration.....	203.98	
02 90 50 00-0173 CF Up To 500 CF, Drying-Onsite For Document Restoration .....	382.45	
02 90 50 00-0174 CF >500 CF, Drying-Onsite For Document Restoration .....	234.61	
02 90 50 00-0175 EA Drying Antique Books, Each For Document Restoration .....	50.98	
02 90 50 00-0176 EA Drying Blue Prints, Each For Document Restoration.....	6.38	
02 90 50 00-0177 EA DVD Scanning And Diagnostics, Each For Document Restoration .....	12.76	
02 90 50 00-0178 EA Freeze Drying (In House) For Document Restoration.....	130.69	
02 90 50 00-0179 EA Freeze Drying (Outside) For Document Restoration.....	112.02	
02 90 50 00-0180 EA Up To 48 CF, Irradiation - Gamma (Minimum Charge) For Document Restoration .....	3,080.55	
02 90 50 00-0181 CF >48 CF, Irradiation - Gamma (Per CF Charge) For Document Restoration.....	28.00	
02 90 50 00-0182 EA Minimal Drying Jobs For Document Restoration.....	1,297.56	
02 90 50 00-0183 EA Monthly Storage For Document Restoration.....	233.38	
02 90 50 00-0184 EA Mylar Prints For Document Restoration.....	12.76	
02 90 50 00-0185 CF Ozoning For Document Restoration .....	8.28	
02 90 50 00-0186 CF Stabilization Freezer Storage, Per Cubic Foot Per Month For Document Restoration .....	11.28	
02 90 50 00-0187 MO Stabilization Freezer Storage, Per Page-Per Month For Document Restoration .....	0.12	
02 90 50 00-0188 EA Wood Pallets, Each For Document Restoration.....	31.35	

**02 90 55 Emergency Clean-up** (02 90 55)

02 90 55 00-0001

**Emergency Clean-up** (02 90 55)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0002

**Emergency Clean-up Labor** (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Labor costs are based on workers familiar with and in the performance of the task following restoration requirements. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0003 HR Skilled Tradesman For Emergency Clean Up.....	60.96
02 90 55 00-0004 HR Restoration / Document Laborer For Emergency Clean Up .....	42.67
02 90 55 00-0005 HR Restoration / Document Supervisor For Emergency Clean Up.....	58.67
02 90 55 00-0006 HR Restoration / Document Project Manager For Emergency Clean Up.....	96.01
02 90 55 00-0007 HR Assistant Project Manager For Emergency Clean Up.....	80.01
02 90 55 00-0008 HR Senior Project Manager For Emergency Clean Up.....	112.01
02 90 55 00-0009 HR Project Director / Document Consultant / Account Manager For Emergency Clean Up .....	160.02
02 90 55 00-0010 HR Equipment Technician For Emergency Clean Up .....	117.35
02 90 55 00-0011 HR Mold Remediation Laborer For Emergency Clean Up .....	58.42
02 90 55 00-0012 HR Mold Remediation Supervisor For Emergency Clean Up .....	80.01
02 90 55 00-0013 HR Administrative Personnel For Emergency Clean Up.....	37.34
02 90 55 00-0014 HR Project Accountant For Emergency Clean Up .....	60.96
02 90 55 00-0015 HR Biohazard Technician For Emergency Clean Up .....	84.71
02 90 55 00-0016 HR Biohazard Supervisor For Emergency Clean Up .....	101.85
02 90 55 00-0017 HR Health And Safety Officer For Emergency Clean Up .....	91.44
02 90 55 00-0018 HR Resource And Logistics Coordinator For Emergency Clean Up .....	66.04
02 90 55 00-0019 HR Loss Control Specialist For Emergency Clean Up .....	64.01
02 90 55 00-0020 HR Moisture Control Specialist For Emergency Clean Up .....	52.83
02 90 55 00-0021 HR Mobilization Support For Emergency Clean Up.....	32.51

02 90 55 00-0022

**Emergency Clean-up Equipment** (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

02 90 55 00-0023

**General Emergency Clean-up Equipment** (02 90 55 00-0022)

02 90 55 00-0024 DAY 265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	163.58
02 90 55 00-0025 WK 265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up .....	624.03
02 90 55 00-0026 MO 265 CFM Portable Ozone Machine, 12,000 MG/HR For Emergency Clean-up.....	1,708.50
02 90 55 00-0027 DAY 13" Floor Buffer Rental For Emergency Clean-up .....	54.67
02 90 55 00-0028 WK 13" Floor Buffer Rental For Emergency Clean-up .....	146.07
02 90 55 00-0029 MO 13" Floor Buffer Rental For Emergency Clean-up .....	403.23
02 90 55 00-0030 DAY 17" Floor Buffer Rental For Emergency Clean-up .....	100.81
02 90 55 00-0031 WK 17" Floor Buffer Rental For Emergency Clean-up .....	257.16
02 90 55 00-0032 MO 17" Floor Buffer Rental For Emergency Clean-up .....	606.90
02 90 55 00-0033 DAY Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	555.47
02 90 55 00-0034 WK Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	1,491.54
02 90 55 00-0035 MO Walk Behind Floor Scrubber Rental For Emergency Clean-up.....	4,155.75
02 90 55 00-0036 DAY Ride-On Floor Scrubber Rental For Emergency Clean-up .....	1,254.95
02 90 55 00-0037 WK Ride-On Floor Scrubber Rental For Emergency Clean-up .....	3,312.25
02 90 55 00-0038 MO Ride-On Floor Scrubber Rental For Emergency Clean-up .....	8,928.68

**02 Existing Conditions****02 90 Disaster Recovery****02 90 55 Emergency Clean-up**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 90 55 00-0039	DAY	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	90.52	
02 90 55 00-0040	WK	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	257.16	
02 90 55 00-0041	MO	4 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	884.64	
02 90 55 00-0042	DAY	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	84.35	
02 90 55 00-0043	WK	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	226.30	
02 90 55 00-0044	MO	8 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	586.33	
02 90 55 00-0045	DAY	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	134.96	
02 90 55 00-0046	WK	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	385.13	
02 90 55 00-0047	MO	17 to 30 Gallon, Commercial Carpet Extractor Rental For Emergency Clean-up	1,076.38	
02 90 55 00-0048	DAY	Truck Mounted Extractor Rental For Emergency Clean-up	958.72	
02 90 55 00-0049	WK	Truck Mounted Extractor Rental For Emergency Clean-up	2,876.15	
02 90 55 00-0050	MO	Truck Mounted Extractor Rental For Emergency Clean-up	8,628.44	
02 90 55 00-0051	DAY	16" Chain Saw Rental For Emergency Clean-up	98.75	
02 90 55 00-0052	WK	16" Chain Saw Rental For Emergency Clean-up	222.19	
02 90 55 00-0053	MO	16" Chain Saw Rental For Emergency Clean-up	592.50	
02 90 55 00-0054	DAY	20" Chain Saw Rental For Emergency Clean-up	123.44	
02 90 55 00-0055	WK	20" Chain Saw Rental For Emergency Clean-up	277.74	
02 90 55 00-0056	MO	20" Chain Saw Rental For Emergency Clean-up	740.63	
02 90 55 00-0057	EA	Cleaning Kit With Mop, Broom And Bucket For Emergency Clean-up	92.58	
02 90 55 00-0058	DAY	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up	131.67	
02 90 55 00-0059	WK	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up	360.03	
02 90 55 00-0060	MO	14" To 16" Electric Cut Off Saw Rental For Emergency Clean-up	1,008.08	
02 90 55 00-0061	DAY	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	160.47	
02 90 55 00-0062	WK	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	545.18	
02 90 55 00-0063	MO	12" To 14" Gasoline Cut Off Saw Rental For Emergency Clean-up	1,038.94	
02 90 55 00-0064	DAY	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	154.91	
02 90 55 00-0065	WK	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	426.01	
02 90 55 00-0066	MO	Wet Or Dry Portable Cleaning Unit For Emergency Clean-up	1,161.83	
02 90 55 00-0067	DAY	Extension Cords - 220 Volt For Emergency Clean-up	51.43	
02 90 55 00-0068	DAY	Extension Cords - 220 Volt Converter Box For Emergency Clean-up	30.86	
02 90 55 00-0069	DAY	Demolition Cart, 1 Yard For Emergency Clean-up	82.29	
02 90 55 00-0070	WK	Demolition Cart, 1 Yard For Emergency Clean-up	226.30	
02 90 55 00-0071	MO	Demolition Cart, 1 Yard For Emergency Clean-up	617.19	
02 90 55 00-0072	DAY	Demolition Cart, 1-1/2 Yard For Emergency Clean-up	102.86	
02 90 55 00-0073	WK	Demolition Cart, 1-1/2 Yard For Emergency Clean-up	282.88	
02 90 55 00-0074	MO	Demolition Cart, 1-1/2 Yard For Emergency Clean-up	771.49	
02 90 55 00-0075	EA	Demolition Kit With Wheel Barrow, Shovel And Broom For Emergency Clean-up	154.30	
02 90 55 00-0076	DAY	Dry-Ice Blasting System For Emergency Clean-up	1,817.52	
02 90 55 00-0077	DAY	Fogger - Mist For Emergency Clean-up	45.56	
02 90 55 00-0078	WK	Fogger - Mist For Emergency Clean-up	125.30	
02 90 55 00-0079	MO	Fogger - Mist For Emergency Clean-up	341.72	
02 90 55 00-0080	DAY	Fogger - Electric Thermal For Emergency Clean-up	65.61	
02 90 55 00-0081	WK	Fogger - Electric Thermal For Emergency Clean-up	180.43	
02 90 55 00-0082	MO	Fogger - Electric Thermal For Emergency Clean-up	492.07	
02 90 55 00-0083	DAY	Fogger - Gas Power Thermal For Emergency Clean-up	189.77	
02 90 55 00-0084	WK	Fogger - Gas Power Thermal For Emergency Clean-up	521.86	
02 90 55 00-0085	MO	Fogger - Gas Power Thermal For Emergency Clean-up	1,423.24	
02 90 55 00-0086	EA	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	216.96	
02 90 55 00-0087	WK	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	596.65	
02 90 55 00-0088	MO	Gang Box, Demo/Framing (One Time Per Job) For Emergency Clean-up	1,627.22	
02 90 55 00-0089	DAY	Hand Trucks/Dollies For Emergency Clean-up	24.69	
02 90 55 00-0090	WK	Hand Trucks/Dollies For Emergency Clean-up	67.89	
02 90 55 00-0091	MO	Hand Trucks/Dollies For Emergency Clean-up	185.16	
02 90 55 00-0092	DAY	Heat Gun - Shrink Wrap For Emergency Clean-up	140.02	
02 90 55 00-0093	WK	Heat Gun - Shrinkwrap For Emergency Clean-up	385.07	
02 90 55 00-0094	MO	Heat Gun - Shrinkwrap For Emergency Clean-up	1,050.19	
02 90 55 00-0095	DAY	High Efficiency Particulate Air (HEPA) Negative Air Machine For Emergency Clean-up	190.93	
		Note: Includes all filters.		
02 90 55 00-0096	DAY	Ladder For Emergency Clean-up	34.97	
02 90 55 00-0097	DAY	Lights - Demo, Drop, Stand, String For Emergency Clean-up	32.80	
02 90 55 00-0098	DAY	Lights - Wobble For Emergency Clean-up	40.09	
02 90 55 00-0099	DAY	Moisture Meter For Emergency Clean-up	54.67	
02 90 55 00-0100	WK	Moisture Meter For Emergency Clean-up	150.36	
02 90 55 00-0101	MO	Moisture Meter For Emergency Clean-up	410.06	
02 90 55 00-0102	DAY	Nail Gun For Emergency Clean-up	92.58	
02 90 55 00-0103	WK	Nail Gun For Emergency Clean-up	254.59	
02 90 55 00-0104	MO	Nail Gun For Emergency Clean-up	694.34	
02 90 55 00-0105	DAY	Ozone Generator For Emergency Clean-up	227.81	
02 90 55 00-0106	DAY	PPE (Personal Protective Equipment) Mold Remediation Related For Emergency Clean-up	123.44	
02 90 55 00-0107	DAY	Portable Generator, Up To 7,500 Watt For Emergency Clean-up	182.25	
02 90 55 00-0108	DAY	Pressure Washer, Hot For Emergency Clean-up	273.37	
02 90 55 00-0109	DAY	Pressure Washer, Cold For Emergency Clean-up	182.25	
02 90 55 00-0110	DAY	Scaffolding - Per Section For Emergency Clean-up	133.72	
02 90 55 00-0111	DAY	Small Tools - Tool Box For Emergency Clean-up	51.43	
02 90 55 00-0112	DAY	Soda Blasting Equipment For Emergency Clean-up	1,803.52	
02 90 55 00-0113	DAY	Sprayer - Hudson For Emergency Clean-up	16.46	
02 90 55 00-0114	WK	Sprayer - Hudson For Emergency Clean-up	45.26	
02 90 55 00-0115	MO	Sprayer - Hudson For Emergency Clean-up	123.44	
02 90 55 00-0116	DAY	0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	111.18	
02 90 55 00-0117	WK	0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	327.11	
02 90 55 00-0118	MO	0.47 GPM, Airless Paint Sprayer For Emergency Clean-up	1,119.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0119 DAY 0.60 GPM, Airless Paint Sprayer For Emergency Clean-up .....	219.23	
02 90 55 00-0120 WK 0.60 GPM, Airless Paint Sprayer For Emergency Clean-up .....	516.75	
02 90 55 00-0121 MO 0.60 GPM, Airless Paint Sprayer For Emergency Clean-up .....	1,440.64	
02 90 55 00-0122 DAY 0.80 GPM, Airless Paint Sprayer For Emergency Clean-up .....	234.88	
02 90 55 00-0123 WK 0.80 GPM, Airless Paint Sprayer For Emergency Clean-up .....	587.22	
02 90 55 00-0124 MO 0.80 GPM, Airless Paint Sprayer For Emergency Clean-up .....	1,581.57	
02 90 55 00-0125 DAY Storage Space (Per SF Per Day) For Emergency Clean-up .....	4.52	
02 90 55 00-0126 DAY Submersible Pump For Emergency Clean-up .....	45.56	
02 90 55 00-0127 DAY Trash Pump - 2" Gas Powered For Emergency Clean-up .....	259.51	
02 90 55 00-0128 DAY Vehicle, Pick-up, SUV, Car For Emergency Clean-up .....	128.82	
02 90 55 00-0129 DAY Vehicle, Van For Emergency Clean-up .....	210.04	
02 90 55 00-0130 DAY 16' Or 24' Box Truck Vehicle For Emergency Clean-up .....	263.56	
Note: Includes Mileage		
02 90 55 00-0131 DAY Trailer - Refrigerated 40' Storage For Emergency Clean-up .....	279.12	
02 90 55 00-0132 DAY Utility Trailer For Emergency Clean-up .....	232.44	
Note: Includes Mileage		
02 90 55 00-0133 DAY Truck Mount, Per Wand Extraction For Emergency Clean-up .....	1,048.32	
02 90 55 00-0134 DAY High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up .....	45.56	
02 90 55 00-0135 WK High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up .....	125.30	
02 90 55 00-0136 MO High Efficiency Particulate Air (HEPA) Backpack Vacuum For Emergency Clean-up .....	341.72	
02 90 55 00-0137 DAY 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up .....	154.91	
02 90 55 00-0138 WK 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up .....	426.01	
02 90 55 00-0139 MO 12 Gallon, Industrial High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up .....	1,161.83	
02 90 55 00-0140 DAY Vacuum - Upright For Emergency Clean-up .....	30.81	
02 90 55 00-0141 WK Vacuum - Upright For Emergency Clean-up .....	84.72	
02 90 55 00-0142 MO Vacuum - Upright For Emergency Clean-up .....	231.04	
02 90 55 00-0143 DAY 12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up .....	63.78	
02 90 55 00-0144 WK 12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up .....	158.41	
02 90 55 00-0145 MO 12 To 23 Gallon, Wet/Dry Shop Vacuum For Emergency Clean-up .....	380.60	
02 90 55 00-0146 DAY 55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up .....	63.78	
02 90 55 00-0147 WK 55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up .....	158.41	
02 90 55 00-0148 MO 55 Gallon Wet/Dry Drum Top Vacuum For Emergency Clean-up .....	401.17	
02 90 55 00-0149 DAY 17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up .....	146.07	
02 90 55 00-0150 WK 17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up .....	390.89	
02 90 55 00-0151 MO 17 Gallon Wet Vacuum With Pump Discharge For Emergency Clean-up .....	1,090.37	
02 90 55 00-0152 DAY Zip Wall Poles (Per 2 Poles) For Emergency Clean-up .....	45.56	
02 90 55 00-0153 WK Zip Wall Poles (Per 2 Poles) For Emergency Clean-up .....	125.30	
02 90 55 00-0154 MO Zip Wall Poles (Per 2 Poles) For Emergency Clean-up .....	341.72	
02 90 55 00-0155 DAY 10' x 10' Canopy For Emergency Clean-up .....	129.61	
02 90 55 00-0156 WK 10' x 10' Canopy For Emergency Clean-up .....	259.22	
02 90 55 00-0157 MO 10' x 10' Canopy For Emergency Clean-up .....	518.44	
02 90 55 00-0158 DAY 10' x 20' Canopy For Emergency Clean-up .....	259.22	
02 90 55 00-0159 WK 10' x 20' Canopy For Emergency Clean-up .....	518.44	
02 90 55 00-0160 MO 10' x 20' Canopy For Emergency Clean-up .....	1,036.88	
02 90 55 00-0161 DAY 16' x 16' Canopy For Emergency Clean-up .....	325.05	
02 90 55 00-0162 WK 16' x 16' Canopy For Emergency Clean-up .....	650.11	
02 90 55 00-0163 MO 16' x 16' Canopy For Emergency Clean-up .....	1,300.21	
02 90 55 00-0164 DAY 20' x 20' Canopy For Emergency Clean-up .....	432.03	
02 90 55 00-0165 WK 20' x 20' Canopy For Emergency Clean-up .....	864.07	
02 90 55 00-0166 MO 20' x 20' Canopy For Emergency Clean-up .....	1,728.13	
02 90 55 00-0167 DAY 20' x 30' Canopy For Emergency Clean-up .....	493.75	
02 90 55 00-0168 WK 20' x 30' Canopy For Emergency Clean-up .....	987.50	
02 90 55 00-0169 MO 20' x 30' Canopy For Emergency Clean-up .....	1,975.01	
02 90 55 00-0170 DAY 20' x 40' Canopy For Emergency Clean-up .....	576.04	
02 90 55 00-0171 WK 20' x 40' Canopy For Emergency Clean-up .....	1,152.09	
02 90 55 00-0172 MO 20' x 40' Canopy For Emergency Clean-up .....	2,304.18	
02 90 55 00-0173 DAY First Aid Station For Emergency Clean-up .....	311.06	
02 90 55 00-0174 WK First Aid Station For Emergency Clean-up .....	855.43	
02 90 55 00-0175 MO First Aid Station For Emergency Clean-up .....	2,332.98	
02 90 55 00-0176 DAY Portable Eyewash Station For Emergency Clean-up .....	94.47	
02 90 55 00-0177 WK Portable Eyewash Station For Emergency Clean-up .....	259.80	
02 90 55 00-0178 MO Portable Eyewash Station For Emergency Clean-up .....	708.53	
02 90 55 00-0179 DAY 2 Way Radio For Emergency Clean-up .....	39.21	

**02 90 55 00-0180 Technical/Electronics Restoration Equipment (02 90 55 00-0022)**

02 90 55 00-0181 DAY Computer - Diagnostic For Emergency Clean-up .....	51.43	
02 90 55 00-0182 WK Computer - Diagnostic For Emergency Clean-up .....	141.44	
02 90 55 00-0183 MO Computer - Diagnostic For Emergency Clean-up .....	385.74	
02 90 55 00-0184 DAY Convection Oven - Large For Emergency Clean-up .....	814.95	
02 90 55 00-0185 WK Convection Oven - Large For Emergency Clean-up .....	2,241.10	
02 90 55 00-0186 MO Convection Oven - Large For Emergency Clean-up .....	6,112.09	
02 90 55 00-0187 DAY Convection Oven - Small For Emergency Clean-up .....	185.16	
02 90 55 00-0188 WK Convection Oven - Small For Emergency Clean-up .....	509.18	
02 90 55 00-0189 MO Convection Oven - Small For Emergency Clean-up .....	1,388.68	
02 90 55 00-0190 DAY Convection Oven - Vacuum For Emergency Clean-up .....	1,163.14	
02 90 55 00-0191 WK Convection Oven - Vacuum For Emergency Clean-up .....	3,198.64	
02 90 55 00-0192 MO Convection Oven - Vacuum For Emergency Clean-up .....	8,723.56	
02 90 55 00-0193 DAY Decontamination Booth For Emergency Clean-up .....	961.50	
02 90 55 00-0194 WK Decontamination Booth For Emergency Clean-up .....	2,644.14	
02 90 55 00-0195 MO Decontamination Booth For Emergency Clean-up .....	7,211.29	

**02 Existing Conditions****02 90 Disaster Recovery****02 90 55 Emergency Clean-up**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 90 55 00-0196	DAY	DI Water System For Emergency Clean-up	74.68	
02 90 55 00-0197	WK	DI Water System For Emergency Clean-up	205.37	
02 90 55 00-0198	MO	DI Water System For Emergency Clean-up	560.10	
02 90 55 00-0199	DAY	ESD Bench Workstation For Emergency Clean-up	45.74	
02 90 55 00-0200	WK	ESD Bench Workstation For Emergency Clean-up	125.79	
02 90 55 00-0201	MO	ESD Bench Workstation For Emergency Clean-up	343.06	
02 90 55 00-0202	DAY	Heater/Enclosure Control System For Emergency Clean-up	30.86	
02 90 55 00-0203	WK	Heater/Enclosure Control System For Emergency Clean-up	84.86	
02 90 55 00-0204	MO	Heater/Enclosure Control System For Emergency Clean-up	231.45	
02 90 55 00-0205	DAY	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	117.62	
02 90 55 00-0206	WK	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	323.46	
02 90 55 00-0207	MO	Hi-Tech Mobile Cart/Workstation For Emergency Clean-up	882.16	
02 90 55 00-0208	DAY	Micro-Blaster/Dust Collector For Emergency Clean-up	462.89	
02 90 55 00-0209	WK	Micro-Blaster/Dust Collector For Emergency Clean-up	1,272.95	
02 90 55 00-0210	MO	Micro-Blaster/Dust Collector For Emergency Clean-up	3,471.69	
02 90 55 00-0211	DAY	Mobile Laboratory For Emergency Clean-up	1,285.81	
02 90 55 00-0212	WK	Mobile Laboratory For Emergency Clean-up	3,535.98	
02 90 55 00-0213	MO	Mobile Laboratory For Emergency Clean-up	9,643.59	
02 90 55 00-0214	DAY	Nitrogen Enclosure Cabinet For Emergency Clean-up	24.69	
02 90 55 00-0215	WK	Nitrogen Enclosure Cabinet For Emergency Clean-up	67.89	
02 90 55 00-0216	MO	Nitrogen Enclosure Cabinet For Emergency Clean-up	185.16	
02 90 55 00-0217	DAY	Odell Cleaning Station For Emergency Clean-up	720.06	
02 90 55 00-0218	WK	Odell Cleaning Station For Emergency Clean-up	1,980.15	
02 90 55 00-0219	MO	Odell Cleaning Station For Emergency Clean-up	5,400.41	
02 90 55 00-0220	DAY	Parts Washer For Emergency Clean-up	51.43	
02 90 55 00-0221	WK	Parts Washer For Emergency Clean-up	141.44	
02 90 55 00-0222	MO	Parts Washer For Emergency Clean-up	385.74	
02 90 55 00-0223	DAY	Ultrasonic Cleaning System For Emergency Clean-up	350.06	
02 90 55 00-0224	WK	Ultrasonic Cleaning System For Emergency Clean-up	962.67	
02 90 55 00-0225	MO	Ultrasonic Cleaning System For Emergency Clean-up	2,625.47	
02 90 55 00-0226	DAY	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	154.91	
02 90 55 00-0227	WK	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	426.01	
02 90 55 00-0228	MO	Technical High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up	1,161.83	

**02 90 55 00-0229 Drying/Dehumidification Equipment (02 90 55 00-0022)**

02 90 55 00-0230	DAY	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up	227.81	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.				
02 90 55 00-0231	WK	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up	626.48	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.				
02 90 55 00-0232	MO	202 CFM Water Extraction Unit With Dual 3-Stage Vacuums For Emergency Clean-up	1,708.58	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.				
02 90 55 00-0233	DAY	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	57.23	
02 90 55 00-0234	WK	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	157.38	
02 90 55 00-0235	MO	2,200 CFM Centrifugal Air Mover For Emergency Clean-up	429.23	
02 90 55 00-0236	DAY	3,000 CFM Axial Air Mover For Emergency Clean-up	95.38	
02 90 55 00-0237	WK	3,000 CFM Axial Air Mover For Emergency Clean-up	262.31	
02 90 55 00-0238	MO	3,000 CFM Axial Air Mover For Emergency Clean-up	715.39	
02 90 55 00-0239	DAY	Injectidry System For Emergency Clean-up	282.49	
02 90 55 00-0240	WK	Injectidry System For Emergency Clean-up	776.83	
02 90 55 00-0241	MO	Injectidry System For Emergency Clean-up	2,118.64	
02 90 55 00-0242	DAY	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	182.25	
02 90 55 00-0243	WK	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	501.18	
02 90 55 00-0244	MO	Up To 100 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,366.86	
02 90 55 00-0245	DAY	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	257.16	
02 90 55 00-0246	WK	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	707.20	
02 90 55 00-0247	MO	>100 To 175 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,928.72	
02 90 55 00-0248	DAY	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	251.68	
02 90 55 00-0249	WK	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	692.11	
02 90 55 00-0250	MO	>175 To 250 Pints Water Removal Per Day, Refrigerant Dehumidifier For Emergency Clean-up	1,887.57	
02 90 55 00-0251	DAY	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	269.03	
02 90 55 00-0252	WK	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	739.84	
02 90 55 00-0253	MO	Phoenix 200 Refrigerant Dehumidifier For Emergency Clean-up	2,017.75	
02 90 55 00-0254	DAY	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	269.03	
02 90 55 00-0255	WK	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	739.84	
02 90 55 00-0256	MO	Phoenix 300 Refrigerant Dehumidifier For Emergency Clean-up	2,017.75	
02 90 55 00-0257	DAY	D-500 Desiccant Dehumidifier For Emergency Clean-up	303.75	
02 90 55 00-0258	WK	D-500 Desiccant Dehumidifier For Emergency Clean-up	835.31	
02 90 55 00-0259	MO	D-500 Desiccant Dehumidifier For Emergency Clean-up	2,278.11	
02 90 55 00-0260	DAY	D-750 Desiccant Dehumidifier For Emergency Clean-up	637.87	
02 90 55 00-0261	WK	D-750 Desiccant Dehumidifier For Emergency Clean-up	1,754.14	
02 90 55 00-0262	MO	D-750 Desiccant Dehumidifier For Emergency Clean-up	4,784.02	
02 90 55 00-0263	DAY	D-1000 Desiccant Dehumidifier For Emergency Clean-up	1,093.49	
02 90 55 00-0264	WK	D-1000 Desiccant Dehumidifier For Emergency Clean-up	3,007.10	
02 90 55 00-0265	MO	D-1000 Desiccant Dehumidifier For Emergency Clean-up	8,201.18	
02 90 55 00-0266	DAY	D-1500 Desiccant Dehumidifier For Emergency Clean-up	1,683.63	
02 90 55 00-0267	WK	D-1500 Desiccant Dehumidifier For Emergency Clean-up	4,629.98	
02 90 55 00-0268	MO	D-1500 Desiccant Dehumidifier For Emergency Clean-up	12,627.22	
02 90 55 00-0269	DAY	D-2000 Desiccant Dehumidifier For Emergency Clean-up	1,683.63	
02 90 55 00-0270	WK	D-2000 Desiccant Dehumidifier For Emergency Clean-up	4,629.98	
02 90 55 00-0271	MO	D-2000 Desiccant Dehumidifier For Emergency Clean-up	12,627.22	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0272 DAY D-2250 Desiccant Dehumidifier For Emergency Clean-up .....	1,758.26	
02 90 55 00-0273 WK D-2250 Desiccant Dehumidifier For Emergency Clean-up .....	4,835.23	
02 90 55 00-0274 MO D-2250 Desiccant Dehumidifier For Emergency Clean-up .....	13,186.98	
02 90 55 00-0275 DAY D-3000 Desiccant Dehumidifier For Emergency Clean-up .....	2,186.98	
02 90 55 00-0276 WK D-3000 Desiccant Dehumidifier For Emergency Clean-up .....	6,014.20	
02 90 55 00-0277 MO D-3000 Desiccant Dehumidifier For Emergency Clean-up .....	16,402.36	
02 90 55 00-0278 DAY D-4500 Desiccant Dehumidifier For Emergency Clean-up .....	2,460.35	
02 90 55 00-0279 WK D-4500 Desiccant Dehumidifier For Emergency Clean-up .....	6,765.98	
02 90 55 00-0280 MO D-4500 Desiccant Dehumidifier For Emergency Clean-up .....	18,452.66	
02 90 55 00-0281 DAY D-5000 Desiccant Dehumidifier For Emergency Clean-up .....	2,642.60	
02 90 55 00-0282 WK D-5000 Desiccant Dehumidifier For Emergency Clean-up .....	7,267.16	
02 90 55 00-0283 MO D-5000 Desiccant Dehumidifier For Emergency Clean-up .....	19,819.52	
02 90 55 00-0284 DAY D-9000 Desiccant Dehumidifier For Emergency Clean-up .....	3,471.40	
02 90 55 00-0285 WK D-9000 Desiccant Dehumidifier For Emergency Clean-up .....	9,546.35	
02 90 55 00-0286 MO D-9000 Desiccant Dehumidifier For Emergency Clean-up .....	26,035.50	
02 90 55 00-0287 DAY D-10500 Desiccant Dehumidifier For Emergency Clean-up .....	3,644.97	
02 90 55 00-0288 WK D-10500 Desiccant Dehumidifier For Emergency Clean-up .....	10,023.67	
02 90 55 00-0289 MO D-10500 Desiccant Dehumidifier For Emergency Clean-up .....	27,337.28	
02 90 55 00-0290 DAY 3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	637.11	
02 90 55 00-0291 WK 3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,752.06	
02 90 55 00-0292 MO 3.5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	4,778.35	
02 90 55 00-0293 DAY 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	882.16	
02 90 55 00-0294 WK 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,425.93	
02 90 55 00-0295 MO 5 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	6,616.18	
02 90 55 00-0296 DAY 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,093.49	
02 90 55 00-0297 WK 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	3,007.10	
02 90 55 00-0298 MO 10 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	8,201.18	
02 90 55 00-0299 DAY 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	1,457.99	
02 90 55 00-0300 WK 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	4,009.47	
02 90 55 00-0301 MO 25 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	10,934.91	
02 90 55 00-0302 DAY 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,460.35	
02 90 55 00-0303 WK 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	6,765.98	
02 90 55 00-0304 MO 50 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	18,452.66	
02 90 55 00-0305 DAY 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	2,733.73	
02 90 55 00-0306 WK 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	7,517.75	
02 90 55 00-0307 MO 80 Ton DX Unit - Heating / Air Conditioning For Emergency Clean-up.....	20,502.96	
02 90 55 00-0308 DAY 25' Flex Duct For Emergency Clean-up.....	36.45	
02 90 55 00-0309 WK 25' Flex Duct For Emergency Clean-up.....	100.24	
02 90 55 00-0310 MO 25' Flex Duct For Emergency Clean-up.....	273.37	
02 90 55 00-0311 DAY Hygrothermograph For Emergency Clean-up.....	51.43	
02 90 55 00-0312 WK Hygrothermograph For Emergency Clean-up.....	141.44	
02 90 55 00-0313 MO Hygrothermograph For Emergency Clean-up.....	385.74	
02 90 55 00-0314 DAY Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up .....	9,224.71	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0315 WK Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up .....	25,367.95	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 55 00-0316 MO Dehumidification Trailer With 1,500 CFM Desiccant Unit For Emergency Clean-up .....	69,185.32	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
<b>02 90 55 00-0317</b>	<b>Power Equipment</b> (02 90 55 00-0022)	
02 90 55 00-0318 WK Up to 65 KVA Generator For Emergency Clean-up.....	1,213.55	
02 90 55 00-0319 WK >65 to 125 KVA Generator For Emergency Clean-up.....	2,053.70	
02 90 55 00-0320 WK >125 to 250 KVA Generator For Emergency Clean-up.....	2,003.08	
02 90 55 00-0321 WK >250 to 375 KVA Generator For Emergency Clean-up.....	3,453.95	
02 90 55 00-0322 WK >375 Up to 440 KVA Generator For Emergency Clean-up.....	4,667.50	
02 90 55 00-0323 WK >440 to 625 KVA Generator For Emergency Clean-up.....	7,028.35	
02 90 55 00-0324 WK >625 to 800 KVA Generator For Emergency Clean-up.....	7,187.95	
02 90 55 00-0325 WK >800 to 1,000 KVA Generator For Emergency Clean-up.....	9,615.05	
02 90 55 00-0326 WK >1,000 to 1,500 KVA Generator For Emergency Clean-up.....	14,469.25	
02 90 55 00-0327 EA Generator Cable/Pigtails (Per Section) For Emergency Clean-up.....	31.37	
02 90 55 00-0328 EA Sub-Distribution Panel (Spider Box) For Emergency Clean-up.....	150.29	
02 90 55 00-0329 EA Electrical Distribution Panel For Emergency Clean-up.....	350.06	
02 90 55 00-0330 EA Quad Box Strings (25' Sections) For Emergency Clean-up.....	56.48	
02 90 55 00-0331 EA 50' Power Cord For Spider Box For Emergency Clean-up.....	52.28	
02 90 55 00-0332 EA Pig Tails (Per Each) For Emergency Clean-up.....	5.14	
<b>02 90 55 00-0333</b>	<b>Freight Charges</b> (02 90 55 00-0022)	
02 90 55 00-0334 MI Freight Up To 1 Ton Pick Up Truck For Emergency Clean-up Equipment .....	2.57	
02 90 55 00-0335 MI Freight >1 Ton Pick Up Truck For Emergency Clean-up Equipment.....	4.63	
02 90 55 00-0336 MI Freight 16' Or 24' Box Truck For Emergency Clean-up Equipment.....	4.63	
02 90 55 00-0337 MI Freight Tractor Trailer For Emergency Clean-up Equipment.....	6.69	
<b>02 90 55 00-0338</b>	<b>Emergency Clean-up Personal Protection Equipment</b> (02 90 55 00-0001)	
Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		

**02 Existing Conditions****02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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02 90 55 00-0339	EA	Tyvek Coveralls For Emergency Clean-up Personal Protection Equipment.....	15.08	
02 90 55 00-0340	EA	Tyvek Coveralls With Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment.....	17.78	
02 90 55 00-0341	EA	Tyvek Coveralls With Hood, Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment.....	18.63	
02 90 55 00-0342	EA	Tyvek Coveralls With Hood, Boots, Elastic Wrists And Ankles For Emergency Clean-up Personal Protection Equipment.....	23.49	
02 90 55 00-0343	EA	Disposable Dual Cartridge Half-Mask Respirator For Emergency Clean-up Personal Protection Equipment.....	124.85	
02 90 55 00-0344	EA	N95 Respirator For Emergency Clean-up Personal Protection Equipment.....	5.23	
02 90 55 00-0345	EA	N95 Respirator With Valve For Emergency Clean-up Personal Protection Equipment.....	7.44	
02 90 55 00-0346	PR	3M Respirator Cartridges For Emergency Clean-up Personal Protection Equipment.....	49.90	
02 90 55 00-0347	EA	Respirator Cleaning Wipes, Per Box 100 For Emergency Clean-up Personal Protection Equipment.....	39.93	
02 90 55 00-0348	PR	P100 Respirator Cartridges For Emergency Clean-up Personal Protection Equipment.....	49.90	
02 90 55 00-0349	EA	Respirator Cartridge For Emergency Clean-up Personal Protection Equipment.....	52.70	
02 90 55 00-0350	BOX	Dust Mask, Box of 50, For Emergency Clean-up Personal Protection Equipment.....	58.75	
02 90 55 00-0351	PR	Cotton Canvas Gloves For Emergency Clean-up Personal Protection Equipment.....	4.20	
02 90 55 00-0352	BOX	5 Mil, Disposable Latex Gloves, Box of 100, For Emergency Clean-up Personal Protection Equipment.....	27.34	
02 90 55 00-0353	PR	4 Mil, Disposable Nitrile Gloves For Emergency Clean-up Personal Protection Equipment.....	0.56	
02 90 55 00-0354	PR	5 Mil, Disposable Vinyl Gloves For Emergency Clean-up Personal Protection Equipment.....	0.47	
02 90 55 00-0355	PR	17 Mil, Latex Gloves For Emergency Clean-up Personal Protection Equipment.....	2.22	
02 90 55 00-0356	PR	15 Mil, Nitrile Gloves For Emergency Clean-up Personal Protection Equipment.....	5.28	
02 90 55 00-0357	PR	Vinyl Coated Gloves With Knit Lining For Emergency Clean-up Personal Protection Equipment.....	7.24	
02 90 55 00-0358	PR	30 Mil, Polyvinyl Chloride (PVC) And Polyvinyl Chloride (PVC) Blend Gloves For Emergency Clean-up Personal Protection Equipment.....	8.11	
02 90 55 00-0359	PR	Leather Gloves For Emergency Clean-up Personal Protection Equipment.....	13.68	
02 90 55 00-0360	EA	Heavy Duty, Rubber Gloves For Emergency Clean-up Personal Protection Equipment.....	23.35	
02 90 55 00-0361	PR	Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment.....	15.22	
02 90 55 00-0362	PR	Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles For Emergency Clean-up Personal Protection Equipment.....	25.10	
02 90 55 00-0363	PR	Plastic Safety Glasses For Emergency Clean-up Personal Protection Equipment.....	6.67	
02 90 55 00-0364	EA	Safety Harness (Per Person/Day) For Emergency Clean-up Personal Protection Equipment.....	9.11	

**02 90 55 00-0365****Emergency Clean-up Expendables** (02 90 55 00-0001)

Note: Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.

**02 90 55 00-0366****General Materials** (02 90 55 00-0365)

02 90 55 00-0367	GAL	Adhesive Remover For Emergency Clean-up.....	109.35	
02 90 55 00-0368	GAL	Bioside-HS Cleaning Solution For Emergency Clean-up.....	35.07	
02 90 55 00-0369	GAL	BioDisc Mold Cleaning Solution For Emergency Clean-up.....	44.75	
02 90 55 00-0370	EA	10" x 12" x 15" Cardboard Storage Box For Emergency Clean-up.....	5.76	
02 90 55 00-0371	EA	10" x 12" x 24" Cardboard Storage Box For Emergency Clean-up.....	8.75	
02 90 55 00-0372	EA	10" x 15" x 24" Cardboard Storage Box For Emergency Clean-up.....	8.75	
02 90 55 00-0373	GAL	Bleach For Emergency Clean-up.....	11.76	
02 90 55 00-0374	EA	Small Stainless Brush For Emergency Clean-up.....	7.47	
02 90 55 00-0375	EA	2-1/2 Gallon Buckets For Emergency Clean-up.....	8.69	
02 90 55 00-0376	EA	5 Gallon Bucket For Emergency Clean-up.....	13.17	
02 90 55 00-0377	GAL	Carpet Defoamer For Emergency Clean-up.....	33.87	
02 90 55 00-0378	GAL	Carpet Pre-treat For Emergency Clean-up.....	27.63	
02 90 55 00-0379	GAL	Carpet Spotter For Emergency Clean-up.....	46.30	
02 90 55 00-0380	GAL	Carpet/Upholstery Cleaner For Emergency Clean-up.....	37.34	
02 90 55 00-0381	ROL	Carpet Masking/Shield For Emergency Clean-up.....	107.47	
02 90 55 00-0382	EA	Chemical Sponge For Emergency Clean-up.....	4.30	
02 90 55 00-0383	GAL	Clear Seal For Emergency Clean-up.....	147.02	
02 90 55 00-0384	GAL	Coil Cleaner For Emergency Clean-up.....	73.99	
02 90 55 00-0385	EA	Decontamination Chamber For Emergency Clean-up.....	321.50	
02 90 55 00-0386	GAL	All Purpose Degreaser For Emergency Clean-up.....	48.11	
02 90 55 00-0387	GAL	De-Foamer Liquid For Emergency Clean-up.....	63.24	
02 90 55 00-0388	EA	Deodorization Membrane For Emergency Clean-up.....	117.94	
02 90 55 00-0389	GAL	9-D-9 Smoke Deodorizer For Emergency Clean-up.....	189.02	
02 90 55 00-0390	LB	Deodorizing Gel For Emergency Clean-up.....	44.41	
02 90 55 00-0391	GAL	Deodorizing Liquid For Emergency Clean-up.....	62.54	
02 90 55 00-0392	PAIL	Deodorizing Block For Emergency Clean-up.....	11.16	
02 90 55 00-0393	GAL	Disinfectant/Anti-microbial For Emergency Clean-up.....	115.22	
02 90 55 00-0394	GAL	BruClean Disinfectant For Emergency Clean-up.....	37.64	
02 90 55 00-0395	GAL	Dryclean For Emergency Clean-up.....	49.14	
02 90 55 00-0396	GAL	Duct Sealant Spray For Emergency Clean-up.....	74.06	
02 90 55 00-0397	GAL	Antifungal Duct Sealant For Emergency Clean-up.....	106.98	
02 90 55 00-0398	GAL	Microbial Encapsulant (Fosters 20 - 40) For Emergency Clean-up.....	170.46	
02 90 55 00-0399	PR	Ear Plugs For Emergency Clean-up Personal Protection Equipment.....	0.67	
02 90 55 00-0400	GAL	Encapsulant For Emergency Clean-up.....	122.48	
02 90 55 00-0401	GAL	Aftershock Fiberlocke For Emergency Clean-up.....	107.54	
02 90 55 00-0402	GAL	IAQ 2500 Fiberlocke For Emergency Clean-up.....	127.03	
02 90 55 00-0403	GAL	IAS 6000 Fiberlocke For Emergency Clean-up.....	130.65	
02 90 55 00-0404	ROL	Filter Material For Emergency Clean-up.....	288.34	
02 90 55 00-0405	EA	Blue Paper Collection Bag Filter For Emergency Clean-up.....	7.77	
02 90 55 00-0406	EA	CVAC Filter For High Efficiency Particulate Air (HEPA) Vacuum For Emergency Clean-up.....	616.71	
02 90 55 00-0407	EA	Pre-Filter For Negative Air Machine For Emergency Clean-up.....	2.96	
02 90 55 00-0408	EA	Pleated Filter For Negative Air Machine For Emergency Clean-up.....	13.17	
02 90 55 00-0409	EA	Charcoal Filter For Negative Air Machine For Emergency Clean-up.....	46.90	
02 90 55 00-0410	EA	High Efficiency Particulate Air (HEPA) Filter For Negative Air Machine For Emergency Clean-up.....	446.05	
02 90 55 00-0411	EA	Pleated Dehumidifier Filter For Emergency Clean-up.....	11.77	
02 90 55 00-0412	GAL	Floor Stripper For Emergency Clean-up.....	23.04	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0413	GAL			Floor Wax For Emergency Clean-up .....	32.92	
02 90 55 00-0414	GAL			Fogger (Thermal) For Emergency Clean-up .....	200.48	
02 90 55 00-0415	BOX			Furniture Blocks For Emergency Clean-up .....	161.48	
02 90 55 00-0416	EA			Furniture Polish, Per 10 Oz Can For Emergency Clean-up .....	21.76	
02 90 55 00-0417	GAL			Glass Cleaner For Emergency Clean-up .....	14.51	
02 90 55 00-0418	EA			Goof Off Spray, 12 Oz For Emergency Clean-up .....	18.67	
02 90 55 00-0419	EA			Halogen Light Bulbs For Emergency Clean-up .....	23.50	
02 90 55 00-0420	QT			Hand Sanitizer For Emergency Clean-up .....	11.62	
02 90 55 00-0421	EA			Hard Hats For Emergency Clean-up Personal Protection Equipment .....	9.57	
02 90 55 00-0422	BOX			Hog Rings, Box Of 2,500 For Emergency Clean-up .....	22.75	
02 90 55 00-0423	GAL			HVAC Coal Cleaner For Emergency Clean-up .....	71.32	
02 90 55 00-0424	BOX			Inventory Tag, Box Of 1,000 For Emergency Clean-up .....	160.01	
02 90 55 00-0425	EA			Utility Knives For Emergency Clean-up .....	18.10	
02 90 55 00-0426	ROL			13" Lay Flat Tubing (250' Roll) For Emergency Clean-up .....	137.26	
02 90 55 00-0427	ROL			20" Lay Flat Tubing (250' Roll) For Emergency Clean-up .....	144.91	
02 90 55 00-0428	ROL			29" Lay Flat Tubing (250' Roll) For Emergency Clean-up .....	288.52	
02 90 55 00-0429	ROL			39" Lay Flat Tubing (250' Roll) For Emergency Clean-up .....	417.03	
02 90 55 00-0430	GAL			Lemon Oil For Emergency Clean-up .....	58.32	
02 90 55 00-0431	GAL			LPS 1/Mecca Lube For Emergency Clean-up .....	59.81	
02 90 55 00-0432	GAL			LPS 2 For Emergency Clean-up .....	63.30	
02 90 55 00-0433	GAL			LPS Contact Cleaner For Emergency Clean-up .....	63.00	
02 90 55 00-0434	GAL			Light Lubricant Preserve For Emergency Clean-up .....	167.03	
02 90 55 00-0435	GAL			Heavy Lubricant Preserver For Emergency Clean-up .....	32.92	
02 90 55 00-0436	GAL			Machinery Cleaning Solvent For Emergency Clean-up .....	279.21	
02 90 55 00-0437	GAL			Metal Polishing Paste For Emergency Clean-up .....	30.92	
02 90 55 00-0438	GAL			MediClean® Disinfectant For Emergency Clean-up .....	66.52	
02 90 55 00-0439	GAL			Dri-Eaz Milgo Plus Sanitizer For Emergency Clean-up .....	81.65	
02 90 55 00-0440	EA			Mop Heads For Emergency Clean-up .....	10.36	
02 90 55 00-0441	EA			Nylon Scouring Pads For Emergency Clean-up .....	1.81	
02 90 55 00-0442	GAL			Odor Neutralizer For Emergency Clean-up .....	46.30	
02 90 55 00-0443	EA			Packing Paper, 25 LB Bundle For Emergency Clean-up .....	83.21	
02 90 55 00-0444	EA			Paint Brushes For Emergency Clean-up .....	8.23	
02 90 55 00-0445	ROL			Corrugated/Craft Paper, 48" x 250' For Emergency Clean-up .....	194.05	
02 90 55 00-0446	EA			Putty Knives For Emergency Clean-up .....	7.46	
02 90 55 00-0447	ROL			Red Resin Paper, 200' Roll For Emergency Clean-up .....	42.34	
02 90 55 00-0448	GAL			Reodorant For Emergency Clean-up .....	139.90	
02 90 55 00-0449	GAL			Restoracide For Emergency Clean-up .....	65.62	
02 90 55 00-0450	GAL			Rust Remover For Emergency Clean-up .....	102.06	
02 90 55 00-0451	EA			Saltesmo Test Samples For Emergency Clean-up .....	9.48	
02 90 55 00-0452	EA			Sand Bag For Emergency Clean-up .....	2.49	
				Note: Excludes sand material		
02 90 55 00-0453	EA			Scotch-Brite 7447, Per Box 50 For Emergency Clean-up .....	33.32	
02 90 55 00-0454	EA			Small Scrub Brushes For Emergency Clean-up .....	17.18	
02 90 55 00-0455	GAL			Clear Soot Sealant For Emergency Clean-up .....	118.36	
02 90 55 00-0456	GAL			Pigmented Soot Sealant For Emergency Clean-up .....	319.20	
02 90 55 00-0457	ROL			Shrinkwrap Plastic For Emergency Clean-up .....	73.48	
02 90 55 00-0458	EA			Dry Sponges For Emergency Clean-up .....	5.97	
02 90 55 00-0459	EA			Spray Adhesive, Per Can For Emergency Clean-up .....	7.66	
02 90 55 00-0460	EA			Spray Bot./Trigger For Emergency Clean-up .....	6.35	
02 90 55 00-0461	GAL			Stain Remover For Emergency Clean-up .....	41.82	
02 90 55 00-0462	GAL			Stainless Steel Cleaner For Emergency Clean-up .....	14.44	
02 90 55 00-0463	EA			Stainless Steel Polish, Per Can For Emergency Clean-up .....	18.95	
02 90 55 00-0464	LB			Sweeping Compound For Emergency Clean-up .....	0.68	
02 90 55 00-0465	ROL			Duct Tape, 2" x 50 YD For Emergency Clean-up .....	15.00	
02 90 55 00-0466	ROL			Environmental (Teal) Tape, 3/4" x 1,440' For Emergency Clean-up .....	14.11	
02 90 55 00-0467	ROL			HVAC (Aluminum) Tape, 2" x 75' For Emergency Clean-up .....	36.21	
02 90 55 00-0468	ROL			Blue Masking (Painters) Tape, 1-1/2" x 198' For Emergency Clean-up .....	20.08	
02 90 55 00-0469	ROL			Poly Box Tape, 2" x 110 YD For Emergency Clean-up .....	6.19	
02 90 55 00-0470	LB			Terry Towels For Emergency Clean-up .....	8.48	
02 90 55 00-0471	GAL			Thermal Fog For Emergency Clean-up .....	94.10	
02 90 55 00-0472	ROL			1.7 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up .....	46.66	
02 90 55 00-0473	ROL			3 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up .....	109.04	
02 90 55 00-0474	ROL			4 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up .....	139.90	
02 90 55 00-0475	ROL			6 Mil, 55 Gallon Trash Bags, 50/Roll For Emergency Clean-up .....	186.07	
02 90 55 00-0476	EA			Trisodium Phosphate, 20 LB Pail For Emergency Clean-up .....	60.06	
02 90 55 00-0477	EA			Backpack Vacuum Bags For Emergency Clean-up .....	2.02	
02 90 55 00-0478	EA			Upright Vacuum Bags For Emergency Clean-up .....	2.70	
02 90 55 00-0479	GAL			Vinyl And Leather Cleaner For Emergency Clean-up .....	37.34	
02 90 55 00-0480	ROL			1 Mil Visqueen, 12' x 400', For Emergency Clean-up .....	60.44	
02 90 55 00-0481	ROL			4 Mil Visqueen, 32' x 100', For Emergency Clean-up .....	164.13	
02 90 55 00-0482	ROL			6 Mil Visqueen, 32' x 400', For Emergency Clean-up .....	223.95	
02 90 55 00-0483	LB			Wipes, Cotton Cloth For Emergency Clean-up .....	6.35	
02 90 55 00-0484	ROL			12" x 750', Wrap, Bubble/Anti-static For Emergency Clean-up .....	184.33	
02 90 55 00-0485	EA			Wyp-Alls, Case Of 160 Wipes For Emergency Clean-up .....	18.67	
02 90 55 00-0486	EA			Zip Wall Zippers For Emergency Clean-up .....	27.98	
02 90 55 00-0487	EA			Absorbent Matt Roll For Oil And Other Liquids - 15" Wide x 50' Roll .....	33.53	
				Note: 3.3 gallon volume absorption capacity per roll		
02 90 55 00-0488	EA			Oil Only Sorbent Pads - 15" x 19", Light, Package Of 100 .....	50.29	
				Note: 26 OZ volume absorption capacity per pad		
02 90 55 00-0489	EA			Oil Only Sorbent Pads - 15" x 19", Medium, Package Of 100 .....	52.99	
				Note: 33 OZ volume absorption capacity per pad		

**02 Existing Conditions****02 90 Disaster Recovery****02 90 55 Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 55 00-0490 EA Oil Only Sorbent Pads - 15" x 19", Heavy, Package Of 100 ..... Note: 45 OZ volume absorption capacity per pad	86.52	
<b>02 90 55 00-0491</b> <b>Technical/Electronics Restoration Materials</b> (02 90 55 00-0365)		
02 90 55 00-0492 EA Brush - Brass For Emergency Clean-up .....	6.17	
02 90 55 00-0493 EA 1" Brush, Natural Bristle For Emergency Clean-up .....	1.98	
02 90 55 00-0494 EA 1/2" Brush, Natural Bristle For Emergency Clean-up .....	1.65	
02 90 55 00-0495 EA 1/4" Brush, Natural Bristle For Emergency Clean-up .....	1.40	
02 90 55 00-0496 EA Brush - Parts For Emergency Clean-up .....	8.56	
02 90 55 00-0497 EA Brush - Plastic For Emergency Clean-up .....	4.44	
02 90 55 00-0498 EA Brush - Wire Grout For Emergency Clean-up .....	9.80	
02 90 55 00-0499 EA Brushing Tool For Emergency Clean-up .....	18.90	
02 90 55 00-0500 EA Cleaning Swabs, Cotton For Emergency Clean-up .....	0.41	
02 90 55 00-0501 EA Cleaning Swabs, Foam Tip For Emergency Clean-up .....	0.49	
02 90 55 00-0502 EA Contact Restorer, Per Can For Emergency Clean-up .....	37.42	
02 90 55 00-0503 EA Contact Spray, Per Can For Emergency Clean-up .....	25.46	
02 90 55 00-0504 UNT Corrosion Inhibitor Emitter - 1 CF For Emergency Clean-up .....	3.95	
02 90 55 00-0505 UNT Corrosion Inhibitor Emitter - 5 CF For Emergency Clean-up .....	11.32	
02 90 55 00-0506 UNT Corrosion Inhibitor Emitter - 10 CF For Emergency Clean-up .....	14.66	
02 90 55 00-0507 LB Cotton Cleaning Cloths For Emergency Clean-up .....	23.14	
02 90 55 00-0508 EA 12" x 17" Dust Cloths For Emergency Clean-up .....	0.37	
02 90 55 00-0509 EA 24" x 24" Dust Cloths For Emergency Clean-up .....	1.01	
02 90 55 00-0510 EA Deoxidizing Agent, Per Can For Emergency Clean-up .....	18.13	
02 90 55 00-0511 GAL Electronic Grade Detergent For Emergency Clean-up .....	42.01	
02 90 55 00-0512 SHT Inventory Labels For Emergency Clean-up .....	0.22	
02 90 55 00-0513 GAL Isopropyl Alcohol For Emergency Clean-up .....	111.32	
02 90 55 00-0514 GAL Lubrication/Penetrating Oil, Per Can For Emergency Clean-up .....	168.42	
02 90 55 00-0515 GAL PC Board Detergent For Emergency Clean-up .....	105.69	
02 90 55 00-0516 GAL Rust Inhibitor, Regular Duty For Emergency Clean-up .....	180.43	
02 90 55 00-0517 GAL Rust Inhibitor, Moderate Duty For Emergency Clean-up .....	181.78	
02 90 55 00-0518 GAL Rust Inhibitor, Severe Duty For Emergency Clean-up .....	194.30	
02 90 55 00-0519 LB Wipes, Lint Free Cloths For Emergency Clean-up .....	7.34	
02 90 55 00-0520 EA Wire Marker Card For Emergency Clean-up .....	2.88	
02 90 55 00-0521 EA Steel Wool, 16 Pad Sleeve For Emergency Clean-up .....	1.58	

**END OF SECTION 02**



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Maintenance of Concrete</b>	<b>03 01</b>	
<b>Maintenance of Cast-In-Place Concrete</b>	<b>03 01 30</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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### 03 Concrete

#### 03 01 Maintenance of Concrete <sup>(03)</sup>

#### 03 01 30 Maintenance of Cast-In-Place Concrete <sup>(03 01)</sup>

#### 03 01 30 51 Cleaning of Cast-In-Place Concrete <sup>(03 01 30)</sup>

03 01 30 51-0001	Abrasive Blasting <sup>(03 01 30 51)</sup>	
	Note: Includes containment and clean-up of all material. Includes steel ball media.	
03 01 30 51-0002	SF Concrete Floors, Abrasive Shot (Bead) Blasting.....	3.71
	For Up To 100, Add	3.04
	For >100 To 250, Add	0.76
	For >250 To 500, Add	0.38
	For >5,000 To 10,000, Deduct	-0.08
	For >10,000, Deduct	-0.15
03 01 30 51-0003	SF Concrete Walls, Abrasive Shot (Bead) Blasting.....	5.24
	For Up To 100, Add	6.10
	For >100 To 250, Add	1.53
	For >250 To 500, Add	0.76
	For >5,000 To 10,000, Deduct	-0.15
	For >10,000, Deduct	-0.31

#### 03 01 30 71 Rehabilitation of Cast-In-Place Concrete <sup>(03 01 30)</sup>

03 01 30 71-0001	Concrete Resurfacing/Repair <sup>(03 01 30 71)</sup>	
	See CSI section 09 01 90 52-0002 for surface preparation as required.	
03 01 30 71-0002	Concrete Repair <sup>(03 01 30 71-0001)</sup>	
03 01 30 71-0003	Decks Or Floors <sup>(03 01 30 71-0002)</sup>	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0004	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Cementitious Mortar.....	7.32
03 01 30 71-0005	SF Patch Decks Or Floors With 1/8" To 1/4" Thick Epoxy Cementitious Mortar.....	26.23
03 01 30 71-0006	SF Patch Decks Or Floors With White Aluminum Oxide Grit (Non-Slip Aggregate).....	0.70
03 01 30 71-0007	Verticals Or Overheads <sup>(03 01 30 71-0002)</sup>	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0008	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Cementitious Mortar.....	10.76
03 01 30 71-0009	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Epoxy Cementitious Mortar.....	33.89
03 01 30 71-0010	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Latex Cementitious Mortar.....	38.69
03 01 30 71-0011	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Elastomeric Compound.....	8.88
03 01 30 71-0012	SF Patch Verticals Or Overheads With 1/8" To 1/4" Thick Copolymer Cementitious Compound.....	15.74
	Note: Rapid Set - WunderFixx	
03 01 30 71-0013	Circular Piers <sup>(03 01 30 71-0002)</sup>	
03 01 30 71-0014	SF Patch Circular Piers With 1/8" To 1/4" Elastomeric Patching Compound.....	12.29
03 01 30 71-0015	SF Patch Circular Piers With 1/8" To 1/4" Copolymer Cementitious Compound.....	21.20
	Note: Rapid Set - WunderFixx	
03 01 30 71-0016	Bridge Deck Treatment <sup>(03 01 30 71-0002)</sup>	
03 01 30 71-0017	SF Sweep Bridge Deck.....	0.02
03 01 30 71-0018	SF Clean Bridge Deck.....	0.03
03 01 30 71-0019	SF Treat Bridge Deck With Methacrylate Resin Sealant.....	2.22
03 01 30 71-0020	Concrete Finishes <sup>(03 01 30 71-0001)</sup>	
03 01 30 71-0021	Concrete Patching <sup>(03 01 30 71-0020)</sup>	
03 01 30 71-0022	Walls <sup>(03 01 30 71-0021)</sup>	
03 01 30 71-0023	BAG Sika Top 111 Plus.....	172.40
	Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar.	
	Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
	For Up To 10, Add	63.45
	For >10 To 25, Add	38.07
	For >25 To 50, Add	25.38
	For >50 To 75, Add	12.69
03 01 30 71-0024	BAG Sika Grout 212, 50 LB Bag.....	118.27
	Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
	For Up To 10, Add	40.17
	For >10 To 25, Add	24.10
	For >25 To 50, Add	16.07
	For >50 To 75, Add	8.03

**03 Concrete****03 01 Maintenance of Concrete****03 01 30 Maintenance of Cast-In-Place Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 01 30 71-0025 EA Sika Flex 1A, 10.3 Ounce Tube.....	39.74	
Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.		
03 01 30 71-0026 BAG Pea Gravel.....	30.25	
<b>03 01 30 71-0027 Crack Repair For Concrete</b> (03 01 30 71-0001)		
<b>03 01 30 71-0028 Non-Structural Crack Repair For Concrete</b> (03 01 30 71-0027)		
<b>03 01 30 71-0029 Surface Applied, Non-Structural Crack Repair For Concrete</b> (03 01 30 71-0028)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0030 LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.10	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0031 LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	8.01	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0032 LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	6.24	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0033 LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	8.28	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0034 LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	6.74	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0035 LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non-Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	9.29	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0036 LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	7.11	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0037 LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	10.02	
For V-Grooving Crack With Grinder, Add	4.75	
<b>03 01 30 71-0038 Pressure Injected, Non-Structural Crack Repair For Concrete</b> (03 01 30 71-0028)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0039 LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non-Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	28.75	
For Cracks Accessible From Both Sides, Add	5.86	
<b>03 01 30 71-0040 Structural Crack Repair For Concrete</b> (03 01 30 71-0027)		
<b>03 01 30 71-0041 Surface Applied, Structural Crack Repair For Concrete</b> (03 01 30 71-0040)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0042 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	7.20	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0043 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	10.21	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0044 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	7.01	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0045 LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	9.82	
For V-Grooving Crack With Grinder, Add	4.75	
03 01 30 71-0046 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	8.64	
For V-Grooving Crack With Grinder, Add	4.86	
03 01 30 71-0047 LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	13.10	
For V-Grooving Crack With Grinder, Add	4.75	
<b>03 01 30 71-0048 Pressure Injected, Structural Crack Repair For Concrete</b> (03 01 30 71-0040)		
Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0049 LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	24.81	
For Cracks Accessible From Both Sides, Add	5.86	
03 01 30 71-0050 LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	24.62	
For Cracks Accessible From Both Sides, Add	5.86	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Maintenance of Concrete</b>	<b>03 01</b>	
<b>Maintenance of Cast-In-Place Concrete</b>	<b>03 01 30</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<p><b>03 01 30 71-0051</b> Pool Deck Texture Repair <small>(03 01 30 71-0001)</small></p> <p>03 01 30 71-0052 SF Pool Deck Texture Repair..... 19.17</p> <p>Note: Includes surface preparation, cleaning, repair of surface, crack repair, liquid underlayment coat, troweled top coat and finish.</p> <p><b>03 01 30 71-0053</b> Carbon Fiber Strengthening System <small>(03 01 30 71-0001)</small></p> <p>Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.</p> <p>03 01 30 71-0054 SF Carbon Fiber Strengthening System For Concrete Beams, Per Layer ..... 88.71</p> <p>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</p> <p>03 01 30 71-0055 SF Carbon Fiber Strengthening System For Concrete Columns, Per Layer ..... 78.48</p> <p>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</p> <p>03 01 30 71-0056 SF Carbon Fiber Strengthening System For Concrete Ceiling Slabs, Per Layer ..... 72.73</p> <p>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</p> <p>03 01 30 71-0057 SF Carbon Fiber Strengthening System For Concrete Walls, Per Layer..... 69.53</p> <p>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</p> <p>03 01 30 71-0058 SF Carbon Fiber Strengthening System For Concrete Slab, Per Layer ..... 65.05</p> <p>Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.</p> <p><b>03 01 30 71-0059</b> Corrosive Inhibitor <small>(03 01 30 71)</small></p> <p>03 01 30 71-0060 SF Corrosive Inhibitor..... 5.98</p> <p><b>03 01 30 72</b> Strengthening Of Cast-in-Place Concrete <small>(03 01 30)</small></p> <p><b>03 01 30 72-0001</b> Concrete Surface Repairs <small>(03 01 30 72)</small></p> <p>03 01 30 72-0002 SF Sound The Concrete Surface To Locate Delaminated Areas ..... 0.37</p>		
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**03 05 Common Work Results For Concrete** (03)

**03 05 13 Concrete Admixtures** (03 05)

<p><b>03 05 13 00-0001</b> Concrete Admixtures <small>(03 05 13)</small></p> <p>03 05 13 00-0002 CY Low Range Water Reducing (LRWR), Type A Concrete Admixture ..... 10.47</p> <p>03 05 13 00-0003 CY Set Retarding, Type B Concrete Admixture..... 7.25</p> <p>03 05 13 00-0004 CY 1% Calcium Chloride Accelerating, Type C Concrete Admixture..... 11.28</p> <p>03 05 13 00-0005 CY 2% Calcium Chloride Accelerating, Type C Concrete Admixture..... 22.56</p> <p>03 05 13 00-0006 CY 1% Non-Chloride Accelerating, Type C Concrete Admixture..... 20.14</p> <p>03 05 13 00-0007 CY 2% Non-Chloride Accelerating, Type C Concrete Admixture..... 40.28</p> <p>03 05 13 00-0008 CY 1% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture ..... 8.70</p> <p>03 05 13 00-0009 CY 2% Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture ..... 16.96</p> <p>03 05 13 00-0010 CY 1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture ..... 12.08</p> <p>03 05 13 00-0011 CY 2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture ..... 24.17</p> <p>03 05 13 00-0012 CY Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture ..... 8.06</p> <p>03 05 13 00-0013 CY High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture..... 19.33</p> <p>03 05 13 00-0014 CY 1 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture ..... 17.19</p> <p>03 05 13 00-0015 CY 1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture ..... 25.78</p> <p>03 05 13 00-0016 CY 25 LB/CY Steel Fibers, Concrete Admixture..... 42.43</p> <p>03 05 13 00-0017 CY 10% Microsilica (Silica Fume), Concrete Admixture ..... 128.89</p> <p>03 05 13 00-0018 CY Corrosion Inhibiting Concrete Admixture ..... 48.33</p> <p>03 05 13 00-0019 CY Winter Service Or Heat, Concrete Add..... 25.78</p> <p>03 05 13 00-0020 CY Chilled Water, Concrete Add ..... 25.78</p> <p>03 05 13 00-0021 CY Subtle Color (See Davis Colors Color Card), Concrete Admixture ..... 37.77</p> <p>03 05 13 00-0022 CY Standard Color (See Davis Colors Color Card), Concrete Admixture..... 62.95</p> <p>03 05 13 00-0023 CY Premium Color (See Davis Colors Color Card), Concrete Admixture..... 120.86</p> <p>03 05 13 00-0024 CY Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture ..... 167.86</p>		
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**03 10 Concrete Forming and Accessories** (03)

**03 11 Concrete Forming** (03 10)

**03 11 13 Structural Cast-In-Place Concrete Forming** (03 11)

Note: Per square foot of formwork.

<p><b>03 11 13 00-0001</b> Wood Formwork <small>(03 11 13)</small></p> <p>Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.</p> <p><b>03 11 13 00-0002</b> Foundation Wood Formwork <small>(03 11 13 00-0001)</small></p> <p>Note: For foundation work below or at grade.</p> <p>03 11 13 00-0003 SF Continuous Footings Foundation Wood Formwork..... 9.02</p> <p style="margin-left: 20px;">For &lt;1,000, Add <span style="float: right;">1.68</span></p> <p style="margin-left: 20px;">For Foundations &gt;8' Below Grade, Add <span style="float: right;">1.61</span></p> <p style="margin-left: 20px;">For Curved Formwork, Add <span style="float: right;">3.22</span></p>		
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**03 Concrete****03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0004 SF Pile Cap, Pier Or Spread Footings Foundation Wood Formwork.....	10.72	
For <1,000, Add	2.01	
For Foundations >8' Below Grade, Add	1.94	
For Curved Formwork, Add	3.88	
03 11 13 00-0005 SF Mat Foundation Wood Formwork.....	12.23	
For <1,000, Add	2.34	
For Foundations >8' Below Grade, Add	2.28	
For Curved Formwork, Add	4.56	
03 11 13 00-0006 SF Grade Beams Or Duct Bank Foundation Wood Formwork .....	10.23	
For <1,000, Add	1.94	
For Foundations >8' Below Grade, Add	1.88	
For Curved Formwork, Add	3.76	
03 11 13 00-0007 SF Below Grade Walls Foundation Wood Formwork .....	14.58	
Note: Excludes footing		
For <1,000, Add	2.75	
For Foundations >8' Below Grade, Add	2.66	
For Curved Formwork, Add	5.33	
<b>03 11 13 00-0008 Slab Edge And Block-Out Wood Formwork (03 11 13 00-0001)</b>		
03 11 13 00-0009 LF Up To 6" High Slab Edge and Block-Out Wood Formwork .....	6.93	
For Foundations >8' Below Grade, Add	1.28	
For Curved Formwork, Add	2.57	
For Up To 250, Add	1.32	
03 11 13 00-0010 LF >6" To 12" High Slab Edge and Block-Out Wood Formwork .....	9.97	
For Foundations >8' Below Grade, Add	1.79	
For Curved Formwork, Add	3.58	
For Up To 250, Add	1.86	
03 11 13 00-0011 SF >12" High Slab Edge and Block-Out Wood Formwork.....	12.65	
For Foundations >8' Below Grade, Add	2.31	
For Curved Formwork, Add	4.62	
For <1,000, Add	2.38	
<b>03 11 13 00-0012 Column Wood Formwork (03 11 13 00-0001)</b>		
03 11 13 00-0013 LF Up To 8" Square Column Wood Formwork.....	53.80	
03 11 13 00-0014 LF >8" To 12" Square Column Wood Formwork.....	77.94	
03 11 13 00-0015 LF >12" To 18" Square Column Wood Formwork.....	97.62	
03 11 13 00-0016 LF >18" To 24" Square Column Wood Formwork.....	139.70	
03 11 13 00-0017 LF >24" To 36" Square Column Wood Formwork.....	200.27	
03 11 13 00-0018 LF >36" To 48" Square Column Wood Formwork.....	264.23	
<b>03 11 13 00-0019 Above Grade Wall Wood Formwork (03 11 13 00-0001)</b>		
03 11 13 00-0020 SF Up To 8' High Above Grade Wall Wood Formwork.....	16.29	
For Curved Formwork, Add	6.01	
For <1,000, Add	3.09	
03 11 13 00-0021 SF >8' High Above Grade Wall Wood Formwork .....	19.32	
For Curved Formwork, Add	7.13	
For <1,000, Add	3.67	
<b>03 11 13 00-0022 Elevated Beam Wood Formwork (03 11 13 00-0001)</b>		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023 SF Bottom of Elevated Beam Wood Formwork.....	21.33	
For Curved Formwork, Add	7.84	
For <1,000, Add	4.04	
03 11 13 00-0024 SF Vertical Sides of Elevated Beam Wood Formwork .....	13.48	
For Curved Formwork, Add	5.00	
For <1,000, Add	2.57	
<b>03 11 13 00-0025 Elevated Slab Wood Formwork (03 11 13 00-0001)</b>		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026 SF Elevated Slab Wood Formwork .....	12.61	
For <1,000, Add	2.31	
<b>03 11 13 00-0027 Metal Framed Formwork (03 11 13)</b>		
Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.		
<b>03 11 13 00-0028 Foundation Metal Framed Formwork (03 11 13 00-0027)</b>		
Note: For foundation work below or at grade.		
03 11 13 00-0029 SF Continuous Footings Foundation Metal Framed Formwork .....	8.17	
For <1,000, Add	1.51	
For Foundations >8' Below Grade, Add	1.45	
For Curved Formwork, Add	2.90	
03 11 13 00-0030 SF Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork.....	9.07	
For <1,000, Add	1.69	
For Foundations >8' Below Grade, Add	1.63	
For Curved Formwork, Add	3.25	





<b>Concrete</b>	<b>03</b>	<b>03</b>	
<b>Concrete Forming and Accessories</b>			<b>03 10</b>
<b>Concrete Forming</b>			<b>03 11</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0031 SF Mat Foundation Metal Framed Formwork.....	10.13	
For <1,000, Add	1.87	
For Foundations >8' Below Grade, Add	1.79	
For Curved Formwork, Add	3.58	
03 11 13 00-0032 SF Grade Beams Or Duct Bank Foundation Metal Framed Formwork .....	8.56	
For <1,000, Add	1.58	
For Foundations >8' Below Grade, Add	1.51	
For Curved Formwork, Add	3.01	
03 11 13 00-0033 SF Below Grade Walls Foundation Metal Framed Formwork .....	13.06	
Note: Excludes footing.		
For <1,000, Add	2.44	
For Foundations >8' Below Grade, Add	2.36	
For Curved Formwork, Add	4.71	
<b>03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork</b> (03 11 13 00-0027)		
03 11 13 00-0035 LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork .....	5.86	
For Foundations >8' Below Grade, Add	1.14	
For Curved Formwork, Add	2.29	
For <250, Add	1.15	
03 11 13 00-0036 LF >6" To 12" High Slab Edge and Block-Out Metal Framed Formwork .....	7.33	
For Foundations >8' Below Grade, Add	1.42	
For Curved Formwork, Add	2.84	
For <250, Add	1.44	
03 11 13 00-0037 SF >12" High Slab Edge and Block-Out Metal Framed Formwork.....	8.11	
For Foundations >8' Below Grade, Add	1.57	
For Curved Formwork, Add	3.14	
For <1,000, Add	1.59	
<b>03 11 13 00-0038 Column Metal Framed Formwork</b> (03 11 13 00-0027)		
<b>03 11 13 00-0039 Square Columns</b> (03 11 13 00-0038)		
03 11 13 00-0040 LF Up To 12" Square Column Metal Framed Formwork.....	49.57	
03 11 13 00-0041 LF >12" To 16" Square Column Metal Framed Formwork .....	59.86	
03 11 13 00-0042 LF >16" To 20" Square Column Metal Framed Formwork .....	70.18	
03 11 13 00-0043 LF >20" To 24" Square Column Metal Framed Formwork .....	83.88	
03 11 13 00-0044 LF >24" To 30" Square Column Metal Framed Formwork .....	101.03	
03 11 13 00-0045 LF >30" To 36" Square Column Metal Framed Formwork .....	121.28	
03 11 13 00-0046 LF >36" To 48" Square Column Metal Framed Formwork .....	155.58	
03 11 13 00-0047 LF >48" To 60" Square Column Metal Framed Formwork .....	191.84	
<b>03 11 13 00-0048 Round Columns</b> (03 11 13 00-0038)		
03 11 13 00-0049 LF Up To 12" Diameter Column Metal Formwork .....	47.72	
03 11 13 00-0050 LF >12" To 16" Diameter Column Metal Formwork .....	53.15	
03 11 13 00-0051 LF >16" To 20" Diameter Column Metal Formwork .....	61.09	
03 11 13 00-0052 LF >20" To 24" Diameter Column Metal Formwork .....	71.38	
03 11 13 00-0053 LF >24" To 30" Diameter Column Metal Formwork .....	84.37	
03 11 13 00-0054 LF >30" To 36" Diameter Column Metal Formwork .....	96.70	
03 11 13 00-0055 LF >36" To 48" Diameter Column Metal Formwork .....	124.98	
03 11 13 00-0056 LF >48" To 60" Diameter Column Metal Formwork .....	162.15	
<b>03 11 13 00-0057 Above Grade Wall Metal Framed Formwork</b> (03 11 13 00-0027)		
03 11 13 00-0058 SF Up to 8' High Above Grade Wall Metal Framed Formwork .....	7.98	
For Curved Formwork, Add	2.68	
For <1,000, Add	1.43	
03 11 13 00-0059 SF >8' High Above Grade Wall Metal Framed Formwork.....	9.72	
For Curved Formwork, Add	3.23	
For <1,000, Add	1.73	
<b>03 11 13 00-0060 Elevated Beam Metal Framed Formwork</b> (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0061 SF Bottom of Elevated Beam Metal Framed Formwork .....	8.00	
For Curved Formwork, Add	2.51	
For <1,000, Add	1.37	
03 11 13 00-0062 SF Vertical Sides of Elevated Beam Metal Framed Formwork.....	5.93	
For Curved Formwork, Add	1.96	
For <1,000, Add	1.05	
<b>03 11 13 00-0063 Elevated Slab Metal Framed Formwork</b> (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0064 SF Elevated Slab Metal Framed Formwork.....	10.95	
For <1,000, Add	1.67	
<b>03 11 13 00-0065 Fiber Tube Formwork</b> (03 11 13)		
Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
<b>03 11 13 00-0066 Round Column Fiber Tube Formwork</b> (03 11 13 00-0065)		

**03 Concrete****03 10 Concrete Forming and Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0067 LF 6" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	20.51 0.71 2.05	
03 11 13 00-0068 LF 8" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	21.62 0.84 2.16	
03 11 13 00-0069 LF 10" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	24.01 1.01 2.40	
03 11 13 00-0070 LF 12" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	29.45 1.79 2.95	
03 11 13 00-0071 LF 14" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	32.97 2.27 3.30	
03 11 13 00-0072 LF 16" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	35.74 2.83 3.57	
03 11 13 00-0073 LF 18" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	38.35 3.30 3.84	
03 11 13 00-0074 LF 20" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	43.33 4.49 4.33	
03 11 13 00-0075 LF 22" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	45.36 4.67 4.54	
03 11 13 00-0076 LF 24" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	47.63 4.93 4.76	
03 11 13 00-0077 LF 26" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	49.50 5.32 4.95	
03 11 13 00-0078 LF 28" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	51.36 5.71 5.14	
03 11 13 00-0079 LF 30" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	53.23 6.10 5.32	
03 11 13 00-0080 LF 36" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	61.10 7.85 6.11	
03 11 13 00-0081 LF 42" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	93.75 17.20 9.38	
03 11 13 00-0082 LF 48" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	113.35 22.64 11.34	
03 11 13 00-0083 LF 54" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	200.69 48.12 20.07	
03 11 13 00-0084 LF 60" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	223.14 54.31 22.31	
<b>03 11 13 00-0085 Accessories For Formwork</b> (03 11 13)		
<b>03 11 13 00-0086 Keyway Forms, All Materials</b> (03 11 13 00-0085)		
03 11 13 00-0087 LF 2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials .....	2.55	
<b>03 11 13 00-0088 Chamfer Strips, All Materials</b> (03 11 13 00-0085)		
03 11 13 00-0089 LF 1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.70	
03 11 13 00-0090 LF 3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.13	
03 11 13 00-0091 LF 1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	3.61	
<b>03 11 13 00-0092 Strip Out Reglets For Concrete Formwork</b> (03 11 13 00-0085)		
03 11 13 00-0093 LF 24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork.....	13.30	
<b>03 11 13 00-0094 Sleeves And Chases, Plastic Or Sheet Metal</b> (03 11 13 00-0085)		
03 11 13 00-0095 EA 2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	18.05	
03 11 13 00-0096 EA 4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	23.17	
03 11 13 00-0097 EA 6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	28.17	
03 11 13 00-0098 EA 8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	34.46	
03 11 13 00-0099 EA 12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	45.10	
03 11 13 00-0100 EA 18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	118.65	

**03 11 16 Architectural Cast-In-Place Concrete Forming** (03 11)



<b>Concrete</b>	<b>03</b>	<b>CS</b>	
<b>Concrete Forming and Accessories</b>			<b>03 10</b>
<b>Concrete Forming</b>			<b>03 11</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**03 11 16 13 Concrete Form Liners (03 11 16)**

<b>03 11 16 13-0001 Concrete Form Liners (03 11 16 13)</b>		
03 11 16 13-0002 SF Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork .....	6.60	
03 11 16 13-0003 SF Beveled Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork .....	8.34	
03 11 16 13-0004 SF Square Edge, Rusticated Concrete Finish, 1 Use, Concrete Form Liner, Add To Formwork .....	10.92	

**03 11 23 Permanent Stair Forming (03 11)**

<b>03 11 23 00-0001 Stairway Wood Formwork (03 11 23)</b>		
03 11 23 00-0002 SF Cast On Grade Stairway Wood Formwork .....	20.64	
<i>For Curved Formwork, Add</i>	7.92	
<i>For &lt;1,000, Add</i>	4.02	
03 11 23 00-0003 SF Elevated Stairway Wood Formwork .....	40.79	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
<i>For Curved Formwork, Add</i>	15.50	
<i>For &lt;1,000, Add</i>	7.89	

**03 11 23 00-0004 Stairway Metal Framed Formwork (03 11 23)**

03 11 23 00-0005 SF Cast On Grade Stairway Metal Framed Formwork .....	17.14	
<i>For Curved Formwork, Add</i>	6.51	
<i>For &lt;1,000, Add</i>	3.31	
03 11 23 00-0006 SF Elevated Stairway Metal Framed Formwork .....	31.80	
Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
<i>For Curved Formwork, Add</i>	12.08	
<i>For &lt;1,000, Add</i>	6.15	

**03 15 Concrete Accessories (03 10)**

**03 15 13 Waterstops (03 15)**

**03 15 13 13 Non-Expanding Waterstops (03 15 13)**

<b>03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops (03 15 13 13)</b>		
03 15 13 13-0002 LF 3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop .....	11.68	
03 15 13 13-0003 LF 3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop .....	13.55	
03 15 13 13-0004 LF 3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb .....	17.32	
03 15 13 13-0005 LF 3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb .....	19.52	
03 15 13 13-0006 LF 1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop .....	33.70	
03 15 13 13-0007 LF 3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop .....	15.24	
03 15 13 13-0008 LF 3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop .....	18.33	
03 15 13 13-0009 LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop .....	37.62	
03 15 13 13-0010 LF 3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb .....	27.87	

**03 15 13 13-0011 Rubber Waterstops (03 15 13 13)**

03 15 13 13-0012 LF 3/8" Thick x 6" Wide Rubber Dumbbell Waterstop .....	10.92	
03 15 13 13-0013 LF 3/8" Thick x 9" Wide Rubber Dumbbell Waterstop .....	12.44	
03 15 13 13-0014 LF 1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb .....	11.20	
03 15 13 13-0015 LF 1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb .....	15.11	
03 15 13 13-0016 LF 3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb .....	12.79	
03 15 13 13-0017 LF 3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb .....	16.14	

**03 15 13 16 Expanding Waterstops (03 15 13)**

<b>03 15 13 16-0001 Bentonite Waterstops (03 15 13 16)</b>		
03 15 13 16-0002 LF 3/4" x 3/8" Bentonite Waterstop .....	11.17	
03 15 13 16-0003 LF 1-1/4" x 1/2" Bentonite Waterstop .....	18.46	
03 15 13 16-0004 LF 1" x 3/4" Bentonite Waterstop .....	21.07	
03 15 13 16-0005 LF 1" x 1" Bentonite Waterstop .....	24.57	

**03 15 16 Concrete Construction Joints (03 15)**

<b>03 15 16 00-0001 Poured Expansion Joint (03 15 16)</b>		
03 15 16 00-0002 LF 1/2" x 1" Plain Asphalt Expansion Joint, Poured .....	3.11	0.84
<i>For Installation In Walls, Add</i>	1.41	
03 15 16 00-0003 LF 1" x 2" Plain Asphalt Expansion Joint, Poured .....	7.08	0.84
<i>For Installation In Walls, Add</i>	1.58	
03 15 16 00-0004 LF 1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied .....	2.98	0.84
<i>For Installation In Walls, Add</i>	1.41	
03 15 16 00-0005 LF 1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied .....	6.53	0.84
<i>For Installation In Walls, Add</i>	1.58	
03 15 16 00-0006 LF 1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts .....	4.15	0.84
<i>For Installation In Walls, Add</i>	1.58	
03 15 16 00-0007 LF 1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts .....	7.48	0.84
<i>For Installation In Walls, Add</i>	2.57	

**03 Concrete****03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0008	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied.....	3.47	0.84
			<i>For Installation In Walls, Add</i>	1.41	
03 15 16 00-0009	LF		1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant .....	4.29	0.84
			<i>For Installation In Walls, Add</i>	1.41	
03 15 16 00-0010	LF		1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant .....	11.32	0.84
			<i>For Installation In Walls, Add</i>	1.58	
<b>03 15 16 00-0011</b>			<b>Premolded Expansion Joints (03 15 16)</b>		
<b>03 15 16 00-0012</b>			<b>Asphalt Saturated Fiber, Premolded Expansion Joints (03 15 16 00-0011)</b>		
03 15 16 00-0013	LF		1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.74	1.27
03 15 16 00-0014	LF		1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.13	1.34
03 15 16 00-0015	LF		1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.37	1.40
03 15 16 00-0016	LF		1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.62	1.46
03 15 16 00-0017	LF		3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.98	1.27
03 15 16 00-0018	LF		3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.31	1.34
03 15 16 00-0019	LF		3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.72	1.40
03 15 16 00-0020	LF		3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint .....	4.28	1.46
03 15 16 00-0021	LF		1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.70	1.21
03 15 16 00-0022	LF		1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint .....	2.94	1.27
03 15 16 00-0023	LF		1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.22	1.34
03 15 16 00-0024	LF		1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.46	1.40
03 15 16 00-0025	LF		1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.74	1.46
03 15 16 00-0026	LF		1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint .....	4.15	1.53
03 15 16 00-0027	LF		1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint .....	4.46	1.59
03 15 16 00-0028	LF		1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint .....	4.99	1.65
03 15 16 00-0029	LF		3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.24	1.34
03 15 16 00-0030	LF		3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint .....	3.70	1.40
03 15 16 00-0031	LF		3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint .....	4.50	1.53
03 15 16 00-0032	SF		1" Asphalt Saturated Fiber, Premolded Expansion Joint .....	7.73	2.09
<b>03 15 16 00-0033</b>			<b>Cork, Premolded Expansion Joints (03 15 16 00-0011)</b>		
03 15 16 00-0034	LF		1/2" x 4" Cork, Premolded Expansion Joint .....	4.58	1.34
03 15 16 00-0035	LF		1/2" x 6" Cork, Premolded Expansion Joint .....	5.14	1.46
03 15 16 00-0036	LF		1/2" x 8" Cork, Premolded Expansion Joint .....	5.58	1.53
03 15 16 00-0037	LF		1/2" x 10" Cork, Premolded Expansion Joint .....	7.76	1.59
03 15 16 00-0038	LF		1/2" x 12" Cork, Premolded Expansion Joint .....	8.25	1.65
03 15 16 00-0039	SF		1/2" Cork, Premolded Expansion Joint .....	9.15	2.09
03 15 16 00-0040	SF		3/4" Cork, Premolded Expansion Joint .....	10.57	2.09
03 15 16 00-0041	SF		1" Cork, Premolded Expansion Joint .....	11.22	2.09
<b>03 15 16 00-0042</b>			<b>Flexible Polyethylene Foam, Premolded Expansion Joints (03 15 16 00-0011)</b>		
03 15 16 00-0043	LF		1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint .....	2.97	1.34
03 15 16 00-0044	LF		1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint .....	3.10	1.40
03 15 16 00-0045	LF		1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint .....	3.26	1.46
03 15 16 00-0046	LF		1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint .....	3.77	1.53
03 15 16 00-0047	LF		1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint .....	3.05	1.34
03 15 16 00-0048	LF		1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint .....	3.19	1.40
03 15 16 00-0049	LF		1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint .....	3.32	1.46
03 15 16 00-0050	LF		1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint .....	3.64	1.53
<b>03 15 16 00-0051</b>			<b>Zip Strip, Premolded Expansion Joints (03 15 16 00-0011)</b>		
03 15 16 00-0052	LF		1" Zip Strip, Premolded Expansion Joint.....	3.00	1.34
03 15 16 00-0053	LF		1-1/2" Zip Strip, Premolded Expansion Joint .....	3.27	1.40
03 15 16 00-0054	LF		2" Zip Strip, Premolded Expansion Joint.....	3.63	1.53
<b>03 15 16 00-0055</b>			<b>Sponge Rubber, Premolded Expansion Joints (03 15 16 00-0011)</b>		
03 15 16 00-0056	LF		1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.90	1.27
03 15 16 00-0057	LF		1/2" x 6" Sponge Rubber, Premolded Expansion Joint.....	5.87	1.27
<b>03 15 16 00-0058</b>			<b>Asphalt Felt Control Joints Or Bond Breaker (03 15 16)</b>		
03 15 16 00-0059	SF		Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.44	0.96
			>1,250, Deduct	-0.07	
03 15 16 00-0060	SF		Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.35	0.96
			>1,250, Deduct	-0.07	
<b>03 15 16 00-0061</b>			<b>Keyed Cold Expansion And Control Joints (03 15 16)</b>		
<b>03 15 16 00-0062</b>			<b>24 Gauge Galvanized Steel With Stakes (03 15 16 00-0061)</b>		
03 15 16 00-0063	LF		24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint .....	7.40	
03 15 16 00-0064	LF		24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint .....	7.56	
03 15 16 00-0065	LF		24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint .....	7.85	
03 15 16 00-0066	LF		24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint .....	8.37	
03 15 16 00-0067	LF		24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint .....	10.68	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**03 15 19 Cast-In Concrete Anchors (03 15)**

**03 15 19 00-0001 Cast In Place Anchors (03 15 19)**  
 Note: For cast in place installations. Includes nut and washer.

**03 15 19 00-0002 J-Type Anchor Bolts (03 15 19 00-0001)**  
 See CSI section 03 11 13 00-0002 for template.

**03 15 19 00-0003 1/2" And 5/8" Diameter (03 15 19 00-0002)**

03 15 19 00-0004	EA	1/2"	Diameter	x 6"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	14.16	
					<i>For Galvanized, Add</i>	3.47	
					<i>For Stainless Steel, Add</i>	24.29	
					<i>For &gt;10 To 50, Deduct</i>	-0.36	
					<i>For &gt;50 To 100, Deduct</i>	-0.90	
					<i>For &gt;100, Deduct</i>	-1.79	
03 15 19 00-0005	EA	1/2"	Diameter	x 12"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	16.62	
					<i>For Galvanized, Add</i>	4.42	
					<i>For Stainless Steel, Add</i>	30.94	
					<i>For &gt;10 To 50, Deduct</i>	-0.39	
					<i>For &gt;50 To 100, Deduct</i>	-1.00	
					<i>For &gt;100, Deduct</i>	-2.00	
03 15 19 00-0006	EA	1/2"	Diameter	x 18"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	20.60	
					<i>For Galvanized, Add</i>	6.09	
					<i>For Stainless Steel, Add</i>	42.63	
					<i>For &gt;10 To 50, Deduct</i>	-0.42	
					<i>For &gt;50 To 100, Deduct</i>	-1.15	
					<i>For &gt;100, Deduct</i>	-2.29	
03 15 19 00-0007	EA	5/8"	Diameter	x 12"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	24.33	
					<i>For Galvanized, Add</i>	7.96	
					<i>For Stainless Steel, Add</i>	55.69	
					<i>For &gt;10 To 50, Deduct</i>	-0.42	
					<i>For &gt;50 To 100, Deduct</i>	-1.24	
					<i>For &gt;100, Deduct</i>	-2.48	
03 15 19 00-0008	EA	5/8"	Diameter	x 18"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	30.43	
					<i>For Galvanized, Add</i>	10.62	
					<i>For Stainless Steel, Add</i>	74.34	
					<i>For &gt;10 To 50, Deduct</i>	-0.46	
					<i>For &gt;50 To 100, Deduct</i>	-1.45	
					<i>For &gt;100, Deduct</i>	-2.90	
03 15 19 00-0009	EA	5/8"	Diameter	x 24"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	34.37	
					<i>For Galvanized, Add</i>	12.14	
					<i>For Stainless Steel, Add</i>	84.95	
					<i>For &gt;10 To 50, Deduct</i>	-0.51	
					<i>For &gt;50 To 100, Deduct</i>	-1.62	
					<i>For &gt;100, Deduct</i>	-3.23	

**03 15 19 00-0010 3/4" And 7/8" Diameter (03 15 19 00-0002)**

03 15 19 00-0011	EA	3/4"	Diameter	x 8"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	34.20	
					<i>For Galvanized, Add</i>	12.05	
					<i>For Stainless Steel, Add</i>	84.35	
					<i>For &gt;10 To 50, Deduct</i>	-0.51	
					<i>For &gt;50 To 100, Deduct</i>	-1.61	
					<i>For &gt;100, Deduct</i>	-3.23	
03 15 19 00-0012	EA	3/4"	Diameter	x 12"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	39.32	
					<i>For Galvanized, Add</i>	14.05	
					<i>For Stainless Steel, Add</i>	98.32	
					<i>For &gt;10 To 50, Deduct</i>	-0.56	
					<i>For &gt;50 To 100, Deduct</i>	-1.83	
					<i>For &gt;100, Deduct</i>	-3.65	
03 15 19 00-0013	EA	3/4"	Diameter	x 18"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	48.62	
					<i>For Galvanized, Add</i>	17.99	
					<i>For Stainless Steel, Add</i>	125.93	
					<i>For &gt;10 To 50, Deduct</i>	-0.63	
					<i>For &gt;50 To 100, Deduct</i>	-2.16	
					<i>For &gt;100, Deduct</i>	-4.33	
03 15 19 00-0014	EA	3/4"	Diameter	x 24"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	59.50	
					<i>For Galvanized, Add</i>	22.67	
					<i>For Stainless Steel, Add</i>	158.69	
					<i>For &gt;10 To 50, Deduct</i>	-0.71	
					<i>For &gt;50 To 100, Deduct</i>	-2.55	
					<i>For &gt;100, Deduct</i>	-5.10	
03 15 19 00-0015	EA	7/8"	Diameter	x 12"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	45.58	
					<i>For Galvanized, Add</i>	16.47	
					<i>For Stainless Steel, Add</i>	115.29	
					<i>For &gt;10 To 50, Deduct</i>	-0.63	
					<i>For &gt;50 To 100, Deduct</i>	-2.09	
					<i>For &gt;100, Deduct</i>	-4.18	
03 15 19 00-0016	EA	7/8"	Diameter	x 18"	Length, Plain Steel, J-Type Cast In Place Anchor Bolt	53.88	
					<i>For Galvanized, Add</i>	19.72	
					<i>For Stainless Steel, Add</i>	138.04	
					<i>For &gt;10 To 50, Deduct</i>	-0.72	
					<i>For &gt;50 To 100, Deduct</i>	-2.43	
					<i>For &gt;100, Deduct</i>	-4.86	

**03 Concrete****03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0017 EA 7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	69.42	
For Galvanized, Add	26.29	
For Stainless Steel, Add	184.03	
For >10 To 50, Deduct	-0.84	
For >50 To 100, Deduct	-3.00	
For >100, Deduct	-6.00	
<b>03 15 19 00-0018 1" And 1-1/8" Diameter</b> <small>(03 15 19 00-0002)</small>		
03 15 19 00-0019 EA 1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	57.05	
For Galvanized, Add	21.31	
For Stainless Steel, Add	149.14	
For >10 To 50, Deduct	-0.72	
For >50 To 100, Deduct	-2.51	
For >100, Deduct	-5.02	
03 15 19 00-0020 EA 1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	68.12	
For Galvanized, Add	25.64	
For Stainless Steel, Add	179.48	
For >10 To 50, Deduct	-0.84	
For >50 To 100, Deduct	-2.97	
For >100, Deduct	-5.93	
03 15 19 00-0021 EA 1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	84.49	
For Galvanized, Add	32.14	
For Stainless Steel, Add	224.98	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-3.63	
For >100, Deduct	-7.26	
03 15 19 00-0022 EA 1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	103.80	
For Galvanized, Add	39.27	
For Stainless Steel, Add	274.89	
For >10 To 50, Deduct	-1.26	
For >50 To 100, Deduct	-4.49	
For >100, Deduct	-8.98	
03 15 19 00-0023 EA 1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	69.12	
For Galvanized, Add	26.64	
For Stainless Steel, Add	186.45	
For >10 To 50, Deduct	-0.79	
For >50 To 100, Deduct	-2.92	
For >100, Deduct	-5.83	
03 15 19 00-0024 EA 1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	82.59	
For Galvanized, Add	32.06	
For Stainless Steel, Add	224.39	
For >10 To 50, Deduct	-0.92	
For >50 To 100, Deduct	-3.45	
For >100, Deduct	-6.90	
03 15 19 00-0025 EA 1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	102.55	
For Galvanized, Add	40.18	
For Stainless Steel, Add	281.26	
For >10 To 50, Deduct	-1.11	
For >50 To 100, Deduct	-4.23	
For >100, Deduct	-8.46	
03 15 19 00-0026 EA 1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	125.92	
For Galvanized, Add	49.09	
For Stainless Steel, Add	343.63	
For >10 To 50, Deduct	-1.39	
For >50 To 100, Deduct	-5.23	
For >100, Deduct	-10.46	
<b>03 15 19 00-0027 1-1/4" And 1-1/2" Diameter</b> <small>(03 15 19 00-0002)</small>		
03 15 19 00-0028 EA 1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	84.14	
For Galvanized, Add	33.29	
For Stainless Steel, Add	233.03	
For >10 To 50, Deduct	-0.88	
For >50 To 100, Deduct	-3.42	
For >100, Deduct	-6.84	
03 15 19 00-0029 EA 1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	100.62	
For Galvanized, Add	40.08	
For Stainless Steel, Add	280.53	
For >10 To 50, Deduct	-1.02	
For >50 To 100, Deduct	-4.05	
For >100, Deduct	-8.10	
03 15 19 00-0030 EA 1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	125.06	
For Galvanized, Add	50.24	
For Stainless Steel, Add	351.68	
For >10 To 50, Deduct	-1.23	
For >50 To 100, Deduct	-4.97	
For >100, Deduct	-9.94	
03 15 19 00-0031 EA 1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	153.43	
For Galvanized, Add	61.36	
For Stainless Steel, Add	429.49	
For >10 To 50, Deduct	-1.54	
For >50 To 100, Deduct	-6.14	
For >100, Deduct	-12.28	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0032	EA			1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	102.91	
				<i>For Galvanized, Add</i>	41.61	
				<i>For Stainless Steel, Add</i>	291.27	
				<i>For &gt;10 To 50, Deduct</i>	-0.98	
				<i>For &gt;50 To 100, Deduct</i>	-4.05	
				<i>For &gt;100, Deduct</i>	-8.10	
03 15 19 00-0033	EA			1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	123.14	
				<i>For Galvanized, Add</i>	50.09	
				<i>For Stainless Steel, Add</i>	350.60	
				<i>For &gt;10 To 50, Deduct</i>	-1.15	
				<i>For &gt;50 To 100, Deduct</i>	-4.80	
				<i>For &gt;100, Deduct</i>	-9.60	
03 15 19 00-0034	EA			1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	153.19	
				<i>For Galvanized, Add</i>	62.81	
				<i>For Stainless Steel, Add</i>	439.67	
				<i>For &gt;10 To 50, Deduct</i>	-1.38	
				<i>For &gt;50 To 100, Deduct</i>	-5.90	
				<i>For &gt;100, Deduct</i>	-11.80	
03 15 19 00-0035	EA			1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	187.85	
				<i>For Galvanized, Add</i>	76.70	
				<i>For Stainless Steel, Add</i>	536.90	
				<i>For &gt;10 To 50, Deduct</i>	-1.72	
				<i>For &gt;50 To 100, Deduct</i>	-7.28	
				<i>For &gt;100, Deduct</i>	-14.56	
<b>03 15 19 00-0036</b>				<b>L-Type Anchor Bolts</b> (03 15 19 00-0001)		
				See CSI section 03 11 13 00-0002 for template.		
<b>03 15 19 00-0037</b>				<b>3/4" And 7/8" Diameter</b> (03 15 19 00-0036)		
03 15 19 00-0038	EA			3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	29.65	
				<i>For Galvanized, Add</i>	9.21	
				<i>For Stainless Steel, Add</i>	64.47	
				<i>For &gt;10 To 50, Deduct</i>	-0.56	
				<i>For &gt;50 To 100, Deduct</i>	-1.58	
				<i>For &gt;100, Deduct</i>	-3.17	
03 15 19 00-0039	EA			3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	35.40	
				<i>For Galvanized, Add</i>	11.38	
				<i>For Stainless Steel, Add</i>	79.66	
				<i>For &gt;10 To 50, Deduct</i>	-0.63	
				<i>For &gt;50 To 100, Deduct</i>	-1.83	
				<i>For &gt;100, Deduct</i>	-3.67	
03 15 19 00-0040	EA			3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	40.53	
				<i>For Galvanized, Add</i>	13.05	
				<i>For Stainless Steel, Add</i>	91.32	
				<i>For &gt;10 To 50, Deduct</i>	-0.72	
				<i>For &gt;50 To 100, Deduct</i>	-2.10	
				<i>For &gt;100, Deduct</i>	-4.19	
03 15 19 00-0041	EA			3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	43.93	
				<i>For Galvanized, Add</i>	13.55	
				<i>For Stainless Steel, Add</i>	94.82	
				<i>For &gt;10 To 50, Deduct</i>	-0.84	
				<i>For &gt;50 To 100, Deduct</i>	-2.36	
				<i>For &gt;100, Deduct</i>	-4.72	
03 15 19 00-0042	EA			3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	48.65	
				<i>For Galvanized, Add</i>	14.22	
				<i>For Stainless Steel, Add</i>	99.54	
				<i>For &gt;10 To 50, Deduct</i>	-1.01	
				<i>For &gt;50 To 100, Deduct</i>	-2.73	
				<i>For &gt;100, Deduct</i>	-5.46	
03 15 19 00-0043	EA			7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	35.48	
				<i>For Galvanized, Add</i>	11.42	
				<i>For Stainless Steel, Add</i>	79.94	
				<i>For &gt;10 To 50, Deduct</i>	-0.63	
				<i>For &gt;50 To 100, Deduct</i>	-1.84	
				<i>For &gt;100, Deduct</i>	-3.67	
03 15 19 00-0044	EA			7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	41.05	
				<i>For Galvanized, Add</i>	13.31	
				<i>For Stainless Steel, Add</i>	93.14	
				<i>For &gt;10 To 50, Deduct</i>	-0.72	
				<i>For &gt;50 To 100, Deduct</i>	-2.11	
				<i>For &gt;100, Deduct</i>	-4.22	
03 15 19 00-0045	EA			7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	47.36	
				<i>For Galvanized, Add</i>	15.26	
				<i>For Stainless Steel, Add</i>	106.82	
				<i>For &gt;10 To 50, Deduct</i>	-0.84	
				<i>For &gt;50 To 100, Deduct</i>	-2.45	
				<i>For &gt;100, Deduct</i>	-4.89	
03 15 19 00-0046	EA			7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	51.90	
				<i>For Galvanized, Add</i>	15.85	
				<i>For Stainless Steel, Add</i>	110.92	
				<i>For &gt;10 To 50, Deduct</i>	-1.01	
				<i>For &gt;50 To 100, Deduct</i>	-2.81	
				<i>For &gt;100, Deduct</i>	-5.63	

**03 Concrete****03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0047	EA		7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	58.55	
			<i>For Galvanized, Add</i>	16.65	
			<i>For Stainless Steel, Add</i>	116.52	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.36	
			<i>For &gt;100, Deduct</i>	-6.72	
<b>03 15 19 00-0048</b>			<b>1" And 1-1/8" Diameter</b> <small>(03 15 19 00-0036)</small>		
03 15 19 00-0049	EA		1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	43.74	
			<i>For Galvanized, Add</i>	14.65	
			<i>For Stainless Steel, Add</i>	102.55	
			<i>For &gt;10 To 50, Deduct</i>	-0.72	
			<i>For &gt;50 To 100, Deduct</i>	-2.18	
			<i>For &gt;100, Deduct</i>	-4.35	
03 15 19 00-0050	EA		1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	49.78	
			<i>For Galvanized, Add</i>	16.47	
			<i>For Stainless Steel, Add</i>	115.29	
			<i>For &gt;10 To 50, Deduct</i>	-0.84	
			<i>For &gt;50 To 100, Deduct</i>	-2.51	
			<i>For &gt;100, Deduct</i>	-5.02	
03 15 19 00-0051	EA		1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	57.05	
			<i>For Galvanized, Add</i>	18.42	
			<i>For Stainless Steel, Add</i>	128.94	
			<i>For &gt;10 To 50, Deduct</i>	-1.01	
			<i>For &gt;50 To 100, Deduct</i>	-2.94	
			<i>For &gt;100, Deduct</i>	-5.88	
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	60.55	
			<i>For Galvanized, Add</i>	19.29	
			<i>For Stainless Steel, Add</i>	135.03	
			<i>For &gt;10 To 50, Deduct</i>	-1.10	
			<i>For &gt;50 To 100, Deduct</i>	-3.16	
			<i>For &gt;100, Deduct</i>	-6.32	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	65.66	
			<i>For Galvanized, Add</i>	20.20	
			<i>For Stainless Steel, Add</i>	141.40	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.54	
			<i>For &gt;100, Deduct</i>	-7.07	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	74.88	
			<i>For Galvanized, Add</i>	23.41	
			<i>For Stainless Steel, Add</i>	163.84	
			<i>For &gt;10 To 50, Deduct</i>	-1.40	
			<i>For &gt;50 To 100, Deduct</i>	-3.98	
			<i>For &gt;100, Deduct</i>	-7.95	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	88.47	
			<i>For Galvanized, Add</i>	27.40	
			<i>For Stainless Steel, Add</i>	191.77	
			<i>For &gt;10 To 50, Deduct</i>	-1.68	
			<i>For &gt;50 To 100, Deduct</i>	-4.74	
			<i>For &gt;100, Deduct</i>	-9.48	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	55.37	
			<i>For Galvanized, Add</i>	19.27	
			<i>For Stainless Steel, Add</i>	134.86	
			<i>For &gt;10 To 50, Deduct</i>	-0.84	
			<i>For &gt;50 To 100, Deduct</i>	-2.65	
			<i>For &gt;100, Deduct</i>	-5.29	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	63.34	
			<i>For Galvanized, Add</i>	21.57	
			<i>For Stainless Steel, Add</i>	150.96	
			<i>For &gt;10 To 50, Deduct</i>	-1.01	
			<i>For &gt;50 To 100, Deduct</i>	-3.10	
			<i>For &gt;100, Deduct</i>	-6.20	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	67.09	
			<i>For Galvanized, Add</i>	22.56	
			<i>For Stainless Steel, Add</i>	157.92	
			<i>For &gt;10 To 50, Deduct</i>	-1.10	
			<i>For &gt;50 To 100, Deduct</i>	-3.33	
			<i>For &gt;100, Deduct</i>	-6.65	
<b>03 15 19 00-0059</b>			<b>1-1/4" And 1-3/8" Diameter</b> <small>(03 15 19 00-0036)</small>		
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	66.81	
			<i>For Galvanized, Add</i>	23.30	
			<i>For Stainless Steel, Add</i>	163.10	
			<i>For &gt;10 To 50, Deduct</i>	-1.01	
			<i>For &gt;50 To 100, Deduct</i>	-3.19	
			<i>For &gt;100, Deduct</i>	-6.37	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	79.79	
			<i>For Galvanized, Add</i>	27.27	
			<i>For Stainless Steel, Add</i>	190.86	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.89	
			<i>For &gt;100, Deduct</i>	-7.78	





MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
03 15 19 00-0062 EA 1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	88.36	
For Galvanized, Add	30.89	
For Stainless Steel, Add	216.20	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-4.20	
For >100, Deduct	-8.41	
03 15 19 00-0063 EA 1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	97.81	
For Galvanized, Add	34.87	
For Stainless Steel, Add	244.09	
For >10 To 50, Deduct	-1.40	
For >50 To 100, Deduct	-4.55	
For >100, Deduct	-9.10	
03 15 19 00-0064 EA 1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	107.44	
For Galvanized, Add	37.93	
For Stainless Steel, Add	265.51	
For >10 To 50, Deduct	-1.58	
For >50 To 100, Deduct	-5.05	
For >100, Deduct	-10.11	
03 15 19 00-0065 EA 1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	117.33	
For Galvanized, Add	40.62	
For Stainless Steel, Add	284.31	
For >10 To 50, Deduct	-1.81	
For >50 To 100, Deduct	-5.64	
For >100, Deduct	-11.28	
03 15 19 00-0066 EA 1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	129.06	
For Galvanized, Add	43.48	
For Stainless Steel, Add	304.33	
For >10 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-6.38	
For >100, Deduct	-12.77	
03 15 19 00-0067 EA 1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	146.68	
For Galvanized, Add	48.07	
For Stainless Steel, Add	336.49	
For >10 To 50, Deduct	-2.53	
For >50 To 100, Deduct	-7.46	
For >100, Deduct	-14.92	
03 15 19 00-0068 EA 1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	78.47	
For Galvanized, Add	29.13	
For Stainless Steel, Add	203.91	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-3.48	
For >100, Deduct	-6.96	
03 15 19 00-0069 EA 1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	93.44	
For Galvanized, Add	34.09	
For Stainless Steel, Add	238.63	
For >10 To 50, Deduct	-1.26	
For >50 To 100, Deduct	-4.23	
For >100, Deduct	-8.46	
03 15 19 00-0070 EA 1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	103.79	
For Galvanized, Add	38.60	
For Stainless Steel, Add	270.20	
For >10 To 50, Deduct	-1.33	
For >50 To 100, Deduct	-4.59	
For >100, Deduct	-9.18	
03 15 19 00-0071 EA 1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	115.24	
For Galvanized, Add	43.59	
For Stainless Steel, Add	305.10	
For >10 To 50, Deduct	-1.40	
For >50 To 100, Deduct	-4.99	
For >100, Deduct	-9.97	
03 15 19 00-0072 EA 1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	126.42	
For Galvanized, Add	47.42	
For Stainless Steel, Add	331.94	
For >10 To 50, Deduct	-1.58	
For >50 To 100, Deduct	-5.53	
For >100, Deduct	-11.06	
03 15 19 00-0073 EA 1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	137.66	
For Galvanized, Add	50.78	
For Stainless Steel, Add	355.46	
For >10 To 50, Deduct	-1.81	
For >50 To 100, Deduct	-6.15	
For >100, Deduct	-12.30	
03 15 19 00-0074 EA 1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	151.69	
For Galvanized, Add	54.79	
For Stainless Steel, Add	383.53	
For >10 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-6.95	
For >100, Deduct	-13.90	
03 15 19 00-0075 EA 1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	170.74	
For Galvanized, Add	60.10	
For Stainless Steel, Add	420.70	
For >10 To 50, Deduct	-2.53	
For >50 To 100, Deduct	-8.06	
For >100, Deduct	-16.12	

**03 Concrete****03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0076		<b>1-1/2", 1-3/4", And 2" Diameter</b> (03 15 19 00-0036)		
03 15 19 00-0077	EA	1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	103.72	
		<i>For Galvanized, Add</i>	40.38	
		<i>For Stainless Steel, Add</i>	282.63	
		<i>For &gt;10 To 50, Deduct</i>	-1.15	
		<i>For &gt;50 To 100, Deduct</i>	-4.32	
		<i>For &gt;100, Deduct</i>	-8.63	
03 15 19 00-0078	EA	1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	111.29	
		<i>For Galvanized, Add</i>	42.35	
		<i>For Stainless Steel, Add</i>	296.45	
		<i>For &gt;10 To 50, Deduct</i>	-1.33	
		<i>For &gt;50 To 100, Deduct</i>	-4.78	
		<i>For &gt;100, Deduct</i>	-9.55	
03 15 19 00-0079	EA	1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	122.91	
		<i>For Galvanized, Add</i>	46.60	
		<i>For Stainless Steel, Add</i>	326.17	
		<i>For &gt;10 To 50, Deduct</i>	-1.49	
		<i>For &gt;50 To 100, Deduct</i>	-5.30	
		<i>For &gt;100, Deduct</i>	-10.60	
03 15 19 00-0080	EA	1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	133.40	
		<i>For Galvanized, Add</i>	50.91	
		<i>For Stainless Steel, Add</i>	356.37	
		<i>For &gt;10 To 50, Deduct</i>	-1.58	
		<i>For &gt;50 To 100, Deduct</i>	-5.70	
		<i>For &gt;100, Deduct</i>	-11.41	
03 15 19 00-0081	EA	1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	144.13	
		<i>For Galvanized, Add</i>	55.23	
		<i>For Stainless Steel, Add</i>	386.58	
		<i>For &gt;10 To 50, Deduct</i>	-1.68	
		<i>For &gt;50 To 100, Deduct</i>	-6.13	
		<i>For &gt;100, Deduct</i>	-12.26	
03 15 19 00-0082	EA	1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	157.64	
		<i>For Galvanized, Add</i>	59.39	
		<i>For Stainless Steel, Add</i>	415.70	
		<i>For &gt;10 To 50, Deduct</i>	-1.94	
		<i>For &gt;50 To 100, Deduct</i>	-6.86	
		<i>For &gt;100, Deduct</i>	-13.71	
03 15 19 00-0083	EA	1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	174.42	
		<i>For Galvanized, Add</i>	64.24	
		<i>For Stainless Steel, Add</i>	449.68	
		<i>For &gt;10 To 50, Deduct</i>	-2.30	
		<i>For &gt;50 To 100, Deduct</i>	-7.81	
		<i>For &gt;100, Deduct</i>	-15.61	
03 15 19 00-0084	EA	1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	198.63	
		<i>For Galvanized, Add</i>	71.24	
		<i>For Stainless Steel, Add</i>	498.68	
		<i>For &gt;10 To 50, Deduct</i>	-2.81	
		<i>For &gt;50 To 100, Deduct</i>	-9.18	
		<i>For &gt;100, Deduct</i>	-18.35	
03 15 19 00-0085	EA	1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	146.76	
		<i>For Galvanized, Add</i>	60.75	
		<i>For Stainless Steel, Add</i>	425.25	
		<i>For &gt;10 To 50, Deduct</i>	-1.26	
		<i>For &gt;50 To 100, Deduct</i>	-5.56	
		<i>For &gt;100, Deduct</i>	-11.13	
03 15 19 00-0086	EA	1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	152.21	
		<i>For Galvanized, Add</i>	62.07	
		<i>For Stainless Steel, Add</i>	434.49	
		<i>For &gt;10 To 50, Deduct</i>	-1.40	
		<i>For &gt;50 To 100, Deduct</i>	-5.91	
		<i>For &gt;100, Deduct</i>	-11.82	
03 15 19 00-0087	EA	1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	155.86	
		<i>For Galvanized, Add</i>	63.07	
		<i>For Stainless Steel, Add</i>	441.49	
		<i>For &gt;10 To 50, Deduct</i>	-1.49	
		<i>For &gt;50 To 100, Deduct</i>	-6.13	
		<i>For &gt;100, Deduct</i>	-12.25	
03 15 19 00-0088	EA	1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	177.27	
		<i>For Galvanized, Add</i>	72.85	
		<i>For Stainless Steel, Add</i>	509.92	
		<i>For &gt;10 To 50, Deduct</i>	-1.58	
		<i>For &gt;50 To 100, Deduct</i>	-6.80	
		<i>For &gt;100, Deduct</i>	-13.60	
03 15 19 00-0089	EA	1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	204.28	
		<i>For Galvanized, Add</i>	84.09	
		<i>For Stainless Steel, Add</i>	588.63	
		<i>For &gt;10 To 50, Deduct</i>	-1.81	
		<i>For &gt;50 To 100, Deduct</i>	-7.81	
		<i>For &gt;100, Deduct</i>	-15.63	
03 15 19 00-0090	EA	1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	212.50	
		<i>For Galvanized, Add</i>	85.20	
		<i>For Stainless Steel, Add</i>	596.37	
		<i>For &gt;10 To 50, Deduct</i>	-2.11	
		<i>For &gt;50 To 100, Deduct</i>	-8.47	
		<i>For &gt;100, Deduct</i>	-16.94	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 15 19 00-0091	EA		1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	234.54	
				<i>For Galvanized, Add</i>	92.00	
				<i>For Stainless Steel, Add</i>	644.00	
				<i>For &gt;10 To 50, Deduct</i>	-2.53	
				<i>For &gt;50 To 100, Deduct</i>	-9.65	
				<i>For &gt;100, Deduct</i>	-19.31	
	03 15 19 00-0092	EA		1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	261.34	
				<i>For Galvanized, Add</i>	99.09	
				<i>For Stainless Steel, Add</i>	693.63	
				<i>For &gt;10 To 50, Deduct</i>	-3.16	
				<i>For &gt;50 To 100, Deduct</i>	-11.27	
				<i>For &gt;100, Deduct</i>	-22.54	
	03 15 19 00-0093	EA		2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	214.68	
				<i>For Galvanized, Add</i>	92.48	
				<i>For Stainless Steel, Add</i>	647.36	
				<i>For &gt;10 To 50, Deduct</i>	-1.49	
				<i>For &gt;50 To 100, Deduct</i>	-7.60	
				<i>For &gt;100, Deduct</i>	-15.19	
	03 15 19 00-0094	EA		2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	233.64	
				<i>For Galvanized, Add</i>	99.98	
				<i>For Stainless Steel, Add</i>	699.66	
				<i>For &gt;10 To 50, Deduct</i>	-1.68	
				<i>For &gt;50 To 100, Deduct</i>	-8.37	
				<i>For &gt;100, Deduct</i>	-16.73	
	03 15 19 00-0095	EA		2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	256.81	
				<i>For Galvanized, Add</i>	108.97	
				<i>For Stainless Steel, Add</i>	762.79	
				<i>For &gt;10 To 50, Deduct</i>	-1.94	
				<i>For &gt;50 To 100, Deduct</i>	-9.34	
				<i>For &gt;100, Deduct</i>	-18.67	
	03 15 19 00-0096	EA		2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	276.76	
				<i>For Galvanized, Add</i>	115.41	
				<i>For Stainless Steel, Add</i>	807.87	
				<i>For &gt;10 To 50, Deduct</i>	-2.30	
				<i>For &gt;50 To 100, Deduct</i>	-10.36	
				<i>For &gt;100, Deduct</i>	-20.73	
	03 15 19 00-0097	EA		2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	298.57	
				<i>For Galvanized, Add</i>	124.02	
				<i>For Stainless Steel, Add</i>	868.11	
				<i>For &gt;10 To 50, Deduct</i>	-2.53	
				<i>For &gt;50 To 100, Deduct</i>	-11.25	
				<i>For &gt;100, Deduct</i>	-22.51	
	03 15 19 00-0098	EA		2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	320.99	
				<i>For Galvanized, Add</i>	132.42	
				<i>For Stainless Steel, Add</i>	926.94	
				<i>For &gt;10 To 50, Deduct</i>	-2.81	
				<i>For &gt;50 To 100, Deduct</i>	-12.24	
				<i>For &gt;100, Deduct</i>	-24.47	
	03 15 19 00-0099	EA		2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	356.63	
				<i>For Galvanized, Add</i>	142.22	
				<i>For Stainless Steel, Add</i>	995.54	
				<i>For &gt;10 To 50, Deduct</i>	-3.61	
				<i>For &gt;50 To 100, Deduct</i>	-14.33	
				<i>For &gt;100, Deduct</i>	-28.66	
	03 15 19 00-0100	EA		2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	384.89	
				<i>For Galvanized, Add</i>	156.35	
				<i>For Stainless Steel, Add</i>	1,094.45	
				<i>For &gt;10 To 50, Deduct</i>	-3.61	
				<i>For &gt;50 To 100, Deduct</i>	-15.04	
				<i>For &gt;100, Deduct</i>	-30.07	
	03 15 19 00-0101	EA		2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	431.81	
				<i>For Galvanized, Add</i>	173.80	
				<i>For Stainless Steel, Add</i>	1,216.57	
				<i>For &gt;10 To 50, Deduct</i>	-4.21	
				<i>For &gt;50 To 100, Deduct</i>	-17.11	
				<i>For &gt;100, Deduct</i>	-34.22	
	<b>03 15 19 00-0102</b>			<b>2-1/2" And 2-3/4" Diameter</b> (03 15 19 00-0036)		
	03 15 19 00-0103	EA		2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	440.64	
				<i>For Galvanized, Add</i>	205.46	
				<i>For Stainless Steel, Add</i>	1,438.22	
				<i>For &gt;10 To 50, Deduct</i>	-1.49	
				<i>For &gt;50 To 100, Deduct</i>	-13.25	
				<i>For &gt;100, Deduct</i>	-26.49	
	03 15 19 00-0104	EA		2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	463.20	
				<i>For Galvanized, Add</i>	214.76	
				<i>For Stainless Steel, Add</i>	1,503.32	
				<i>For &gt;10 To 50, Deduct</i>	-1.68	
				<i>For &gt;50 To 100, Deduct</i>	-14.11	
				<i>For &gt;100, Deduct</i>	-28.21	

**03 Concrete****03 10 Concrete Forming and Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0105	EA		2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	504.67	
			<i>For Galvanized, Add</i>	232.90	
			<i>For Stainless Steel, Add</i>	1,630.30	
			<i>For &gt;10 To 50, Deduct</i>	-1.94	
			<i>For &gt;50 To 100, Deduct</i>	-15.53	
			<i>For &gt;100, Deduct</i>	-31.06	
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	536.83	
			<i>For Galvanized, Add</i>	245.45	
			<i>For Stainless Steel, Add</i>	1,718.12	
			<i>For &gt;10 To 50, Deduct</i>	-2.30	
			<i>For &gt;50 To 100, Deduct</i>	-16.87	
			<i>For &gt;100, Deduct</i>	-33.73	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	567.74	
			<i>For Galvanized, Add</i>	258.60	
			<i>For Stainless Steel, Add</i>	1,810.20	
			<i>For &gt;10 To 50, Deduct</i>	-2.53	
			<i>For &gt;50 To 100, Deduct</i>	-17.98	
			<i>For &gt;100, Deduct</i>	-35.97	
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	602.83	
			<i>For Galvanized, Add</i>	273.34	
			<i>For Stainless Steel, Add</i>	1,913.38	
			<i>For &gt;10 To 50, Deduct</i>	-2.81	
			<i>For &gt;50 To 100, Deduct</i>	-19.28	
			<i>For &gt;100, Deduct</i>	-38.56	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	649.04	
			<i>For Galvanized, Add</i>	288.43	
			<i>For Stainless Steel, Add</i>	2,018.98	
			<i>For &gt;10 To 50, Deduct</i>	-3.61	
			<i>For &gt;50 To 100, Deduct</i>	-21.64	
			<i>For &gt;100, Deduct</i>	-43.28	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	496.77	
			<i>For Galvanized, Add</i>	232.60	
			<i>For Stainless Steel, Add</i>	1,628.17	
			<i>For &gt;10 To 50, Deduct</i>	-1.58	
			<i>For &gt;50 To 100, Deduct</i>	-14.79	
			<i>For &gt;100, Deduct</i>	-29.58	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	533.71	
			<i>For Galvanized, Add</i>	248.81	
			<i>For Stainless Steel, Add</i>	1,741.64	
			<i>For &gt;10 To 50, Deduct</i>	-1.81	
			<i>For &gt;50 To 100, Deduct</i>	-16.05	
			<i>For &gt;100, Deduct</i>	-32.10	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	572.45	
			<i>For Galvanized, Add</i>	265.17	
			<i>For Stainless Steel, Add</i>	1,856.19	
			<i>For &gt;10 To 50, Deduct</i>	-2.11	
			<i>For &gt;50 To 100, Deduct</i>	-17.47	
			<i>For &gt;100, Deduct</i>	-34.94	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	610.35	
			<i>For Galvanized, Add</i>	279.91	
			<i>For Stainless Steel, Add</i>	1,959.34	
			<i>For &gt;10 To 50, Deduct</i>	-2.53	
			<i>For &gt;50 To 100, Deduct</i>	-19.05	
			<i>For &gt;100, Deduct</i>	-38.10	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	648.17	
			<i>For Galvanized, Add</i>	296.01	
			<i>For Stainless Steel, Add</i>	2,072.07	
			<i>For &gt;10 To 50, Deduct</i>	-2.81	
			<i>For &gt;50 To 100, Deduct</i>	-20.42	
			<i>For &gt;100, Deduct</i>	-40.83	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	700.91	
			<i>For Galvanized, Add</i>	318.88	
			<i>For Stainless Steel, Add</i>	2,232.13	
			<i>For &gt;10 To 50, Deduct</i>	-3.16	
			<i>For &gt;50 To 100, Deduct</i>	-22.26	
			<i>For &gt;100, Deduct</i>	-44.52	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	757.04	
			<i>For Galvanized, Add</i>	336.41	
			<i>For Stainless Steel, Add</i>	2,354.87	
			<i>For &gt;10 To 50, Deduct</i>	-4.21	
			<i>For &gt;50 To 100, Deduct</i>	-25.24	
			<i>For &gt;100, Deduct</i>	-50.49	

**03 20 Concrete Reinforcing** <sup>(03)</sup>

Note: Includes cutting or torching to size, bending where necessary and tie wires.

**03 21 Reinforcement Bars** <sup>(03 20)</sup>

Note: Includes cutting, bending, tie wire, tying, bar chairs and all non-mechanical splicing. The weights of reinforcing steel shall be used as follows: #2 - 0.167 Lbs./LF, #3 - 0.376 Lbs./LF, #4 - 0.668 Lbs./LF, #5 - 1.043 Lbs./LF, #6 - 1.502 Lbs./LF, #7 - 2.044 Lbs./LF, #8 - 2.670 Lbs./LF, #9 - 3.400 Lbs./LF, #10 - 4.303 Lbs./LF, #11 - 5.313 Lbs./LF, #14 - 7.650 Lbs./LF, #18 - 13.600 Lbs./LF.

**03 21 11 Plain Steel Reinforcement Bars** <sup>(03 21)</sup>**03 21 11 00-0001 Beams And Girders, Steel Reinforcement Bar** <sup>(03 21 11)</sup>

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0002 LF #3, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	0.68	
For Up To 100, Add	0.43	
For >100 To 200, Add	0.24	
For >200 To 500, Add	0.09	
03 21 11 00-0003 LF #4, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.14	
For Up To 100, Add	0.73	
For >100 To 200, Add	0.40	
For >200 To 500, Add	0.16	
03 21 11 00-0004 LF #5, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	1.71	
For Up To 100, Add	1.12	
For >100 To 200, Add	0.61	
For >200 To 500, Add	0.24	
03 21 11 00-0005 LF #6, Grade 40, Beams And Girders, Steel Reinforcement Bar.....	2.35	
For Up To 100, Add	1.56	
For >100 To 200, Add	0.85	
For >200 To 500, Add	0.34	
03 21 11 00-0006 LF #3, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	0.69	
For Up To 100, Add	0.44	
For >100 To 200, Add	0.24	
For >200 To 500, Add	0.10	
03 21 11 00-0007 LF #4, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.16	
For Up To 100, Add	0.75	
For >100 To 200, Add	0.41	
For >200 To 500, Add	0.16	
03 21 11 00-0008 LF #5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.75	
For Up To 100, Add	1.16	
For >100 To 200, Add	0.63	
For >200 To 500, Add	0.25	
03 21 11 00-0009 LF #6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	2.40	
For Up To 100, Add	1.61	
For >100 To 200, Add	0.87	
For >200 To 500, Add	0.35	
03 21 11 00-0010 LF #3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.71	
For Up To 100, Add	0.46	
For >100 To 200, Add	0.25	
For >200 To 500, Add	0.10	
03 21 11 00-0011 LF #4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.20	
For Up To 100, Add	0.79	
For >100 To 200, Add	0.43	
For >200 To 500, Add	0.17	
03 21 11 00-0012 LF #5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.80	
For Up To 100, Add	1.21	
For >100 To 200, Add	0.65	
For >200 To 500, Add	0.26	
03 21 11 00-0013 LF #6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.48	
For Up To 100, Add	1.69	
For >100 To 200, Add	0.91	
For >200 To 500, Add	0.37	
03 21 11 00-0014 LF #7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.20	
For Up To 100, Add	1.76	
For >100 To 200, Add	1.04	
For >200 To 400, Add	0.48	
03 21 11 00-0015 LF #8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.98	
For Up To 100, Add	2.23	
For >100 To 200, Add	1.31	
For >200 To 400, Add	0.61	
03 21 11 00-0016 LF #9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.87	
For Up To 100, Add	2.76	
For >100 To 200, Add	1.62	
For >200 To 400, Add	0.75	
03 21 11 00-0017 LF #10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.93	
For Up To 100, Add	2.78	
For >100 To 200, Add	1.52	
For >200 To 300, Add	0.76	
03 21 11 00-0018 LF #11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	7.02	
For Up To 100, Add	3.35	
For >100 To 200, Add	1.82	
For >200 To 300, Add	0.91	
03 21 11 00-0019 LF #14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	9.70	
For Up To 100, Add	4.70	
For >100 To 200, Add	2.54	
For >200 To 300, Add	1.27	
03 21 11 00-0020 LF #18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	16.51	
For Up To 100, Add	8.13	
For >100 To 200, Add	4.36	
For >200 To 300, Add	2.18	
03 21 11 00-0021 LF #6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.56	
For Up To 100, Add	1.77	
For >100 To 200, Add	0.95	
For >200 To 500, Add	0.38	
03 21 11 00-0022 LF #7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.31	
For Up To 100, Add	1.84	
For >100 To 200, Add	1.08	
For >200 To 400, Add	0.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	4.12	
		For Up To 100, Add		2.33	
		For >100 To 200, Add		1.36	
		For >200 To 400, Add		0.63	
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	5.04	
		For Up To 100, Add		2.89	
		For >100 To 200, Add		1.68	
		For >200 To 400, Add		0.79	
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	6.15	
		For Up To 100, Add		2.92	
		For >100 To 200, Add		1.59	
		For >200 To 300, Add		0.79	
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	7.30	
		For Up To 100, Add		3.51	
		For >100 To 200, Add		1.90	
		For >200 To 300, Add		0.95	
03 21 11 00-0027	LF	#14, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	10.10	
		For Up To 100, Add		4.94	
		For >100 To 200, Add		2.66	
		For >200 To 300, Add		1.33	
03 21 11 00-0028	LF	#18, Grade 75, Beams And Girders, Steel Reinforcement Bar	.....	17.21	
		For Up To 100, Add		8.55	
		For >100 To 200, Add		4.57	
		For >200 To 300, Add		2.29	
03 21 11 00-0029	LF	#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	0.73	
		For Up To 100, Add		0.48	
		For >100 To 200, Add		0.26	
		For >200 To 500, Add		0.10	
03 21 11 00-0030	LF	#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	1.23	
		For Up To 100, Add		0.82	
		For >100 To 200, Add		0.45	
		For >200 To 500, Add		0.18	
03 21 11 00-0031	LF	#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	1.84	
		For Up To 100, Add		1.25	
		For >100 To 200, Add		0.67	
		For >200 To 500, Add		0.27	
03 21 11 00-0032	LF	#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	2.54	
		For Up To 100, Add		1.75	
		For >100 To 200, Add		0.94	
		For >200 To 500, Add		0.38	
03 21 11 00-0033	LF	#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	3.28	
		For Up To 100, Add		1.82	
		For >100 To 200, Add		1.07	
		For >200 To 400, Add		0.50	
03 21 11 00-0034	LF	#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	4.08	
		For Up To 100, Add		2.30	
		For >100 To 200, Add		1.35	
		For >200 To 400, Add		0.63	
03 21 11 00-0035	LF	#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	5.00	
		For Up To 100, Add		2.86	
		For >100 To 200, Add		1.67	
		For >200 To 400, Add		0.78	
03 21 11 00-0036	LF	#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	6.09	
		For Up To 100, Add		2.88	
		For >100 To 200, Add		1.57	
		For >200 To 300, Add		0.78	
03 21 11 00-0037	LF	#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	7.23	
		For Up To 100, Add		3.47	
		For >100 To 200, Add		1.88	
		For >200 To 300, Add		0.94	
03 21 11 00-0038	LF	#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	10.00	
		For Up To 100, Add		4.88	
		For >100 To 200, Add		2.63	
		For >200 To 300, Add		1.31	
03 21 11 00-0039	LF	#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar	.....	17.04	
		For Up To 100, Add		8.45	
		For >100 To 200, Add		4.52	
		For >200 To 300, Add		2.26	
03 21 11 00-0040		<b>Columns, Steel Reinforcement Bar</b> <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0041	LF	#3, Grade 40, Columns, Steel Reinforcement Bar	.....	0.72	
		For Up To 100, Add		0.44	
		For >100 To 200, Add		0.25	
		For >200 To 500, Add		0.10	
03 21 11 00-0042	LF	#4, Grade 40, Columns, Steel Reinforcement Bar	.....	1.22	
		For Up To 100, Add		0.76	
		For >100 To 200, Add		0.42	
		For >200 To 500, Add		0.17	
03 21 11 00-0043	LF	#5, Grade 40, Columns, Steel Reinforcement Bar	.....	1.80	
		For Up To 100, Add		1.15	
		For >100 To 200, Add		0.63	
		For >200 To 500, Add		0.25	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0044 LF #6, Grade 40, Columns, Steel Reinforcement Bar.....	2.48	
For Up To 100, Add	1.62	
For >100 To 200, Add	0.88	
For >200 To 500, Add	0.35	
03 21 11 00-0045 LF #3, Grade 50, Columns, Steel Reinforcement Bar.....	0.73	
For Up To 100, Add	0.45	
For >100 To 200, Add	0.25	
For >200 To 500, Add	0.10	
03 21 11 00-0046 LF #4, Grade 50, Columns, Steel Reinforcement Bar.....	1.24	
For Up To 100, Add	0.78	
For >100 To 200, Add	0.43	
For >200 To 500, Add	0.17	
03 21 11 00-0047 LF #5, Grade 50, Columns, Steel Reinforcement Bar.....	1.84	
For Up To 100, Add	1.19	
For >100 To 200, Add	0.65	
For >200 To 500, Add	0.26	
03 21 11 00-0048 LF #6, Grade 50, Columns, Steel Reinforcement Bar.....	2.53	
For Up To 100, Add	1.67	
For >100 To 200, Add	0.91	
For >200 To 500, Add	0.36	
03 21 11 00-0049 LF #3, Grade 60, Columns, Steel Reinforcement Bar.....	0.75	
For Up To 100, Add	0.47	
For >100 To 200, Add	0.26	
For >200 To 500, Add	0.10	
03 21 11 00-0050 LF #4, Grade 60, Columns, Steel Reinforcement Bar.....	1.28	
For Up To 100, Add	0.82	
For >100 To 200, Add	0.45	
For >200 To 500, Add	0.18	
03 21 11 00-0051 LF #5, Grade 60, Columns, Steel Reinforcement Bar.....	1.89	
For Up To 100, Add	1.24	
For >100 To 200, Add	0.68	
For >200 To 500, Add	0.27	
03 21 11 00-0052 LF #6, Grade 60, Columns, Steel Reinforcement Bar.....	2.61	
For Up To 100, Add	1.75	
For >100 To 200, Add	0.95	
For >200 To 500, Add	0.38	
03 21 11 00-0053 LF #7, Grade 60, Columns, Steel Reinforcement Bar.....	3.37	
For Up To 100, Add	1.82	
For >100 To 200, Add	1.08	
For >200 To 400, Add	0.50	
03 21 11 00-0054 LF #8, Grade 60, Columns, Steel Reinforcement Bar.....	4.16	
For Up To 100, Add	2.29	
For >100 To 200, Add	1.35	
For >200 To 400, Add	0.62	
03 21 11 00-0055 LF #9, Grade 60, Columns, Steel Reinforcement Bar.....	5.09	
For Up To 100, Add	2.84	
For >100 To 200, Add	1.67	
For >200 To 400, Add	0.77	
03 21 11 00-0056 LF #10, Grade 60, Columns, Steel Reinforcement Bar.....	6.18	
For Up To 100, Add	2.86	
For >100 To 200, Add	1.57	
For >200 To 300, Add	0.79	
03 21 11 00-0057 LF #11, Grade 60, Columns, Steel Reinforcement Bar.....	7.31	
For Up To 100, Add	3.43	
For >100 To 200, Add	1.88	
For >200 To 300, Add	0.94	
03 21 11 00-0058 LF #14, Grade 60, Columns, Steel Reinforcement Bar.....	10.08	
For Up To 100, Add	4.81	
For >100 To 200, Add	2.61	
For >200 To 300, Add	1.31	
03 21 11 00-0059 LF #18, Grade 60, Columns, Steel Reinforcement Bar.....	17.09	
For Up To 100, Add	8.30	
For >100 To 200, Add	4.48	
For >200 To 300, Add	2.24	
03 21 11 00-0060 LF #6, Grade 75, Columns, Steel Reinforcement Bar.....	2.69	
For Up To 100, Add	1.83	
For >100 To 200, Add	0.99	
For >200 To 500, Add	0.39	
03 21 11 00-0061 LF #7, Grade 75, Columns, Steel Reinforcement Bar.....	3.48	
For Up To 100, Add	1.90	
For >100 To 200, Add	1.13	
For >200 To 400, Add	0.52	
03 21 11 00-0062 LF #8, Grade 75, Columns, Steel Reinforcement Bar.....	4.30	
For Up To 100, Add	2.39	
For >100 To 200, Add	1.41	
For >200 To 400, Add	0.65	
03 21 11 00-0063 LF #9, Grade 75, Columns, Steel Reinforcement Bar.....	5.26	
For Up To 100, Add	2.97	
For >100 To 200, Add	1.74	
For >200 To 400, Add	0.81	
03 21 11 00-0064 LF #10, Grade 75, Columns, Steel Reinforcement Bar.....	6.40	
For Up To 100, Add	2.99	
For >100 To 200, Add	1.64	
For >200 To 300, Add	0.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0065	LF		#11, Grade 75, Columns, Steel Reinforcement Bar .....	7.59	
			<i>For Up To 100, Add</i>	3.60	
			<i>For &gt;100 To 200, Add</i>	1.96	
			<i>For &gt;200 To 300, Add</i>	0.98	
03 21 11 00-0066	LF		#14, Grade 75, Columns, Steel Reinforcement Bar .....	10.48	
			<i>For Up To 100, Add</i>	5.05	
			<i>For &gt;100 To 200, Add</i>	2.73	
			<i>For &gt;200 To 300, Add</i>	1.37	
03 21 11 00-0067	LF		#18, Grade 75, Columns, Steel Reinforcement Bar .....	17.79	
			<i>For Up To 100, Add</i>	8.72	
			<i>For &gt;100 To 200, Add</i>	4.69	
			<i>For &gt;200 To 300, Add</i>	2.34	
03 21 11 00-0068	LF		#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	0.77	
			<i>For Up To 100, Add</i>	0.49	
			<i>For &gt;100 To 200, Add</i>	0.27	
			<i>For &gt;200 To 500, Add</i>	0.11	
03 21 11 00-0069	LF		#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	1.31	
			<i>For Up To 100, Add</i>	0.85	
			<i>For &gt;100 To 200, Add</i>	0.47	
			<i>For &gt;200 To 500, Add</i>	0.19	
03 21 11 00-0070	LF		#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	1.93	
			<i>For Up To 100, Add</i>	1.28	
			<i>For &gt;100 To 200, Add</i>	0.70	
			<i>For &gt;200 To 500, Add</i>	0.28	
03 21 11 00-0071	LF		#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	2.67	
			<i>For Up To 100, Add</i>	1.81	
			<i>For &gt;100 To 200, Add</i>	0.98	
			<i>For &gt;200 To 500, Add</i>	0.39	
03 21 11 00-0072	LF		#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	3.45	
			<i>For Up To 100, Add</i>	1.88	
			<i>For &gt;100 To 200, Add</i>	1.11	
			<i>For &gt;200 To 400, Add</i>	0.51	
03 21 11 00-0073	LF		#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	4.26	
			<i>For Up To 100, Add</i>	2.36	
			<i>For &gt;100 To 200, Add</i>	1.39	
			<i>For &gt;200 To 400, Add</i>	0.64	
03 21 11 00-0074	LF		#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	5.22	
			<i>For Up To 100, Add</i>	2.94	
			<i>For &gt;100 To 200, Add</i>	1.72	
			<i>For &gt;200 To 400, Add</i>	0.80	
03 21 11 00-0075	LF		#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	6.34	
			<i>For Up To 100, Add</i>	2.96	
			<i>For &gt;100 To 200, Add</i>	1.62	
			<i>For &gt;200 To 300, Add</i>	0.81	
03 21 11 00-0076	LF		#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	7.52	
			<i>For Up To 100, Add</i>	3.56	
			<i>For &gt;100 To 200, Add</i>	1.94	
			<i>For &gt;200 To 300, Add</i>	0.97	
03 21 11 00-0077	LF		#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	10.38	
			<i>For Up To 100, Add</i>	4.99	
			<i>For &gt;100 To 200, Add</i>	2.70	
			<i>For &gt;200 To 300, Add</i>	1.35	
03 21 11 00-0078	LF		#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar .....	17.62	
			<i>For Up To 100, Add</i>	8.62	
			<i>For &gt;100 To 200, Add</i>	4.64	
			<i>For &gt;200 To 300, Add</i>	2.32	
03 21 11 00-0079			<b>Footings, Steel Reinforcement Bar</b> <small>(03 21 11)</small>		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0080	LF		#3, Grade 40, Footings, Steel Reinforcement Bar .....	0.62	
			<i>For Up To 100, Add</i>	0.40	
			<i>For &gt;100 To 200, Add</i>	0.22	
			<i>For &gt;200 To 500, Add</i>	0.09	
03 21 11 00-0081	LF		#4, Grade 40, Footings, Steel Reinforcement Bar .....	1.05	
			<i>For Up To 100, Add</i>	0.70	
			<i>For &gt;100 To 200, Add</i>	0.38	
			<i>For &gt;200 To 500, Add</i>	0.15	
03 21 11 00-0082	LF		#5, Grade 40, Footings, Steel Reinforcement Bar .....	1.57	
			<i>For Up To 100, Add</i>	1.06	
			<i>For &gt;100 To 200, Add</i>	0.57	
			<i>For &gt;200 To 500, Add</i>	0.23	
03 21 11 00-0083	LF		#6, Grade 40, Footings, Steel Reinforcement Bar .....	2.16	
			<i>For Up To 100, Add</i>	1.49	
			<i>For &gt;100 To 200, Add</i>	0.80	
			<i>For &gt;200 To 500, Add</i>	0.32	
03 21 11 00-0084	LF		#3, Grade 50, Footings, Steel Reinforcement Bar .....	0.63	
			<i>For Up To 100, Add</i>	0.41	
			<i>For &gt;100 To 200, Add</i>	0.23	
			<i>For &gt;200 To 500, Add</i>	0.09	
03 21 11 00-0085	LF		#4, Grade 50, Footings, Steel Reinforcement Bar .....	1.07	
			<i>For Up To 100, Add</i>	0.72	
			<i>For &gt;100 To 200, Add</i>	0.39	
			<i>For &gt;200 To 500, Add</i>	0.16	





<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0086 LF #5, Grade 50, Footings, Steel Reinforcement Bar .....	1.61	
For Up To 100, Add	1.10	
For >100 To 200, Add	0.59	
For >200 To 500, Add	0.24	
03 21 11 00-0087 LF #6, Grade 50, Footings, Steel Reinforcement Bar .....	2.21	
For Up To 100, Add	1.54	
For >100 To 200, Add	0.83	
For >200 To 500, Add	0.33	
03 21 11 00-0088 LF #3, Grade 60, Footings, Steel Reinforcement Bar .....	0.65	
For Up To 100, Add	0.43	
For >100 To 200, Add	0.24	
For >200 To 500, Add	0.09	
03 21 11 00-0089 LF #4, Grade 60, Footings, Steel Reinforcement Bar .....	1.11	
For Up To 100, Add	0.76	
For >100 To 200, Add	0.41	
For >200 To 500, Add	0.16	
03 21 11 00-0090 LF #5, Grade 60, Footings, Steel Reinforcement Bar .....	1.66	
For Up To 100, Add	1.15	
For >100 To 200, Add	0.62	
For >200 To 500, Add	0.25	
03 21 11 00-0091 LF #6, Grade 60, Footings, Steel Reinforcement Bar .....	2.29	
For Up To 100, Add	1.62	
For >100 To 200, Add	0.87	
For >200 To 500, Add	0.35	
03 21 11 00-0092 LF #7, Grade 60, Footings, Steel Reinforcement Bar .....	2.97	
For Up To 100, Add	1.68	
For >100 To 200, Add	0.98	
For >200 To 400, Add	0.46	
03 21 11 00-0093 LF #8, Grade 60, Footings, Steel Reinforcement Bar .....	3.69	
For Up To 100, Add	2.12	
For >100 To 200, Add	1.23	
For >200 To 400, Add	0.58	
03 21 11 00-0094 LF #9, Grade 60, Footings, Steel Reinforcement Bar .....	4.54	
For Up To 100, Add	2.65	
For >100 To 200, Add	1.53	
For >200 To 400, Add	0.72	
03 21 11 00-0095 LF #10, Grade 60, Footings, Steel Reinforcement Bar .....	5.54	
For Up To 100, Add	3.28	
For >100 To 200, Add	1.89	
For >200 To 400, Add	0.89	
For Up To 100, Add	2.67	
For >100 To 200, Add	1.44	
For >200 To 300, Add	0.72	
03 21 11 00-0096 LF #11, Grade 60, Footings, Steel Reinforcement Bar .....	6.59	
For Up To 100, Add	3.96	
For >100 To 200, Add	2.27	
For >200 To 400, Add	1.07	
For Up To 100, Add	3.22	
For >100 To 200, Add	1.73	
For >200 To 300, Add	0.87	
03 21 11 00-0097 LF #14, Grade 60, Footings, Steel Reinforcement Bar .....	9.14	
For Up To 100, Add	5.58	
For >100 To 200, Add	3.18	
For >200 To 400, Add	1.51	
For Up To 100, Add	4.53	
For >100 To 200, Add	2.42	
For >200 To 300, Add	1.21	
03 21 11 00-0098 LF #18, Grade 60, Footings, Steel Reinforcement Bar .....	15.61	
For Up To 100, Add	9.70	
For >100 To 200, Add	5.49	
For >200 To 400, Add	2.62	
For Up To 100, Add	7.86	
For >100 To 200, Add	4.18	
For >200 To 300, Add	2.09	
03 21 11 00-0099 LF #6, Grade 75, Footings, Steel Reinforcement Bar .....	2.37	
For Up To 100, Add	1.70	
For >100 To 200, Add	0.91	
For >200 To 500, Add	0.36	
For Up To 100, Add	1.33	
For >100 To 200, Add	0.78	
For >200 To 400, Add	0.36	
03 21 11 00-0100 LF #7, Grade 75, Footings, Steel Reinforcement Bar .....	3.08	
For Up To 100, Add	1.76	
For >100 To 200, Add	1.03	
For >200 To 400, Add	0.48	
03 21 11 00-0101 LF #8, Grade 75, Footings, Steel Reinforcement Bar .....	3.83	
For Up To 100, Add	2.23	
For >100 To 200, Add	1.29	
For >200 To 400, Add	0.61	
03 21 11 00-0102 LF #9, Grade 75, Footings, Steel Reinforcement Bar .....	4.71	
For Up To 100, Add	2.78	
For >100 To 200, Add	1.60	
For >200 To 400, Add	0.75	
03 21 11 00-0103 LF #10, Grade 75, Footings, Steel Reinforcement Bar .....	5.76	
For Up To 100, Add	2.80	
For >100 To 200, Add	1.51	
For >200 To 300, Add	0.75	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0104	LF		#11, Grade 75, Footings, Steel Reinforcement Bar .....	6.87	
			For Up To 100, Add	3.38	
			For >100 To 200, Add	1.82	
			For >200 To 300, Add	0.91	
03 21 11 00-0105	LF		#14, Grade 75, Footings, Steel Reinforcement Bar .....	9.54	
			For Up To 100, Add	4.77	
			For >100 To 200, Add	2.54	
			For >200 To 300, Add	1.27	
03 21 11 00-0106	LF		#18, Grade 75, Footings, Steel Reinforcement Bar .....	16.31	
			For Up To 100, Add	8.28	
			For >100 To 200, Add	4.39	
			For >200 To 300, Add	2.20	
03 21 11 00-0107	LF		#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	0.67	
			For Up To 100, Add	0.45	
			For >100 To 200, Add	0.25	
			For >200 To 500, Add	0.10	
03 21 11 00-0108	LF		#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	1.14	
			For Up To 100, Add	0.79	
			For >100 To 200, Add	0.42	
			For >200 To 500, Add	0.17	
03 21 11 00-0109	LF		#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	1.70	
			For Up To 100, Add	1.19	
			For >100 To 200, Add	0.64	
			For >200 To 500, Add	0.26	
03 21 11 00-0110	LF		#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	2.35	
			For Up To 100, Add	1.68	
			For >100 To 200, Add	0.90	
			For >200 To 500, Add	0.36	
03 21 11 00-0111	LF		#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	3.05	
			For Up To 100, Add	1.74	
			For >100 To 200, Add	1.01	
			For >200 To 400, Add	0.47	
03 21 11 00-0112	LF		#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	3.79	
			For Up To 100, Add	2.20	
			For >100 To 200, Add	1.27	
			For >200 To 400, Add	0.60	
03 21 11 00-0113	LF		#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	4.67	
			For Up To 100, Add	2.75	
			For >100 To 200, Add	1.58	
			For >200 To 400, Add	0.75	
03 21 11 00-0114	LF		#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	5.70	
			For Up To 100, Add	2.76	
			For >100 To 200, Add	1.49	
			For >200 To 300, Add	0.75	
03 21 11 00-0115	LF		#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	6.80	
			For Up To 100, Add	3.34	
			For >100 To 200, Add	1.79	
			For >200 To 300, Add	0.90	
03 21 11 00-0116	LF		#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	9.44	
			For Up To 100, Add	4.71	
			For >100 To 200, Add	2.51	
			For >200 To 300, Add	1.26	
03 21 11 00-0117	LF		#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar .....	16.14	
			For Up To 100, Add	8.18	
			For >100 To 200, Add	4.34	
			For >200 To 300, Add	2.17	
03 21 11 00-0118			<b>Slab On Grade, Steel Reinforcement Bar</b> (03 21 11)		
			Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.		
03 21 11 00-0119	LF		#3, Grade 40, Slab On Grade, Steel Reinforcement Bar .....	0.60	
			For Up To 100, Add	0.40	
			For >100 To 200, Add	0.22	
			For >200 To 500, Add	0.09	
03 21 11 00-0120	LF		#4, Grade 40, Slab On Grade, Steel Reinforcement Bar .....	1.01	
			For Up To 100, Add	0.68	
			For >100 To 200, Add	0.37	
			For >200 To 500, Add	0.15	
03 21 11 00-0121	LF		#5, Grade 40, Slab On Grade, Steel Reinforcement Bar .....	1.51	
			For Up To 100, Add	1.04	
			For >100 To 200, Add	0.56	
			For >200 To 500, Add	0.22	
03 21 11 00-0122	LF		#6, Grade 40, Slab On Grade, Steel Reinforcement Bar .....	2.08	
			For Up To 100, Add	1.46	
			For >100 To 200, Add	0.78	
			For >200 To 500, Add	0.31	
03 21 11 00-0123	LF		#3, Grade 50, Slab On Grade, Steel Reinforcement Bar .....	0.61	
			For Up To 100, Add	0.41	
			For >100 To 200, Add	0.22	
			For >200 To 500, Add	0.09	
03 21 11 00-0124	LF		#4, Grade 50, Slab On Grade, Steel Reinforcement Bar .....	1.03	
			For Up To 100, Add	0.70	
			For >100 To 200, Add	0.38	
			For >200 To 500, Add	0.15	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0125 LF #5, Grade 50, Slab On Grade, Steel Reinforcement Bar .....	1.55	
For Up To 100, Add	1.08	
For >100 To 200, Add	0.58	
For >200 To 500, Add	0.23	
03 21 11 00-0126 LF #6, Grade 50, Slab On Grade, Steel Reinforcement Bar .....	2.13	
For Up To 100, Add	1.51	
For >100 To 200, Add	0.81	
For >200 To 500, Add	0.32	
03 21 11 00-0127 LF #3, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	0.63	
For Up To 100, Add	0.43	
For >100 To 200, Add	0.23	
For >200 To 500, Add	0.09	
03 21 11 00-0128 LF #4, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	1.07	
For Up To 100, Add	0.74	
For >100 To 200, Add	0.40	
For >200 To 500, Add	0.16	
03 21 11 00-0129 LF #5, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	1.60	
For Up To 100, Add	1.13	
For >100 To 200, Add	0.60	
For >200 To 500, Add	0.24	
03 21 11 00-0130 LF #6, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	2.21	
For Up To 100, Add	1.59	
For >100 To 200, Add	0.85	
For >200 To 500, Add	0.34	
03 21 11 00-0131 LF #7, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	2.89	
For Up To 100, Add	1.65	
For >100 To 200, Add	0.96	
For >200 To 400, Add	0.45	
03 21 11 00-0132 LF #8, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	3.60	
For Up To 100, Add	2.09	
For >100 To 200, Add	1.21	
For >200 To 400, Add	0.57	
03 21 11 00-0133 LF #9, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	4.43	
For Up To 100, Add	2.61	
For >100 To 200, Add	1.51	
For >200 To 400, Add	0.71	
03 21 11 00-0134 LF #10, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	5.41	
For Up To 100, Add	2.63	
For >100 To 200, Add	1.42	
For >200 To 300, Add	0.71	
03 21 11 00-0135 LF #11, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	6.45	
For Up To 100, Add	3.17	
For >100 To 200, Add	1.70	
For >200 To 300, Add	0.85	
03 21 11 00-0136 LF #14, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	8.94	
For Up To 100, Add	4.47	
For >100 To 200, Add	2.38	
For >200 To 300, Add	1.19	
03 21 11 00-0137 LF #18, Grade 60, Slab On Grade, Steel Reinforcement Bar .....	15.32	
For Up To 100, Add	7.77	
For >100 To 200, Add	4.12	
For >200 To 300, Add	2.06	
03 21 11 00-0138 LF #6, Grade 75, Slab On Grade, Steel Reinforcement Bar .....	2.29	
For Up To 100, Add	1.67	
For >100 To 200, Add	0.89	
For >200 To 500, Add	0.35	
03 21 11 00-0139 LF #7, Grade 75, Slab On Grade, Steel Reinforcement Bar .....	3.00	
For Up To 100, Add	1.73	
For >100 To 200, Add	1.01	
For >200 To 400, Add	0.47	
03 21 11 00-0140 LF #8, Grade 75, Slab On Grade, Steel Reinforcement Bar .....	3.74	
For Up To 100, Add	2.20	
For >100 To 200, Add	1.27	
For >200 To 400, Add	0.60	
03 21 11 00-0141 LF #9, Grade 75, Slab On Grade, Steel Reinforcement Bar .....	4.60	
For Up To 100, Add	2.74	
For >100 To 200, Add	1.57	
For >200 To 400, Add	0.74	
03 21 11 00-0142 LF #10, Grade 75, Slab On Grade, Steel Reinforcement Bar .....	5.63	
For Up To 100, Add	2.76	
For >100 To 200, Add	1.48	
For >200 To 300, Add	0.74	
03 21 11 00-0143 LF #11, Grade 75, Slab On Grade, Steel Reinforcement Bar .....	6.73	
For Up To 100, Add	3.34	
For >100 To 200, Add	1.79	
For >200 To 300, Add	0.89	
03 21 11 00-0144 LF #14, Grade 75, Slab On Grade, Steel Reinforcement Bar .....	9.34	
For Up To 100, Add	4.71	
For >100 To 200, Add	2.50	
For >200 To 300, Add	1.25	
03 21 11 00-0145 LF #18, Grade 75, Slab On Grade, Steel Reinforcement Bar .....	16.02	
For Up To 100, Add	8.19	
For >100 To 200, Add	4.33	
For >200 To 300, Add	2.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	0.65	
		<i>For Up To 100, Add</i>		0.45	
		<i>For &gt;100 To 200, Add</i>		0.24	
		<i>For &gt;200 To 500, Add</i>		0.10	
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.10	
		<i>For Up To 100, Add</i>		0.77	
		<i>For &gt;100 To 200, Add</i>		0.41	
		<i>For &gt;200 To 500, Add</i>		0.17	
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	1.64	
		<i>For Up To 100, Add</i>		1.17	
		<i>For &gt;100 To 200, Add</i>		0.62	
		<i>For &gt;200 To 500, Add</i>		0.25	
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	2.27	
		<i>For Up To 100, Add</i>		1.65	
		<i>For &gt;100 To 200, Add</i>		0.88	
		<i>For &gt;200 To 500, Add</i>		0.35	
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	2.97	
		<i>For Up To 100, Add</i>		1.71	
		<i>For &gt;100 To 200, Add</i>		0.99	
		<i>For &gt;200 To 400, Add</i>		0.46	
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	3.70	
		<i>For Up To 100, Add</i>		2.17	
		<i>For &gt;100 To 200, Add</i>		1.25	
		<i>For &gt;200 To 400, Add</i>		0.59	
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	4.56	
		<i>For Up To 100, Add</i>		2.71	
		<i>For &gt;100 To 200, Add</i>		1.56	
		<i>For &gt;200 To 400, Add</i>		0.73	
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	5.57	
		<i>For Up To 100, Add</i>		2.72	
		<i>For &gt;100 To 200, Add</i>		1.47	
		<i>For &gt;200 To 300, Add</i>		0.73	
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	6.66	
		<i>For Up To 100, Add</i>		3.30	
		<i>For &gt;100 To 200, Add</i>		1.77	
		<i>For &gt;200 To 300, Add</i>		0.88	
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	9.24	
		<i>For Up To 100, Add</i>		4.65	
		<i>For &gt;100 To 200, Add</i>		2.47	
		<i>For &gt;200 To 300, Add</i>		1.24	
03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	.....	15.85	
		<i>For Up To 100, Add</i>		8.09	
		<i>For &gt;100 To 200, Add</i>		4.28	
		<i>For &gt;200 To 300, Add</i>		2.14	
03 21 11 00-0157		<b>Elevated Slabs, Steel Reinforcement Bar</b> <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0158	LF	#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	0.55	
		<i>For Up To 100, Add</i>		0.38	
		<i>For &gt;100 To 200, Add</i>		0.20	
		<i>For &gt;200 To 500, Add</i>		0.08	
03 21 11 00-0159	LF	#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	0.94	
		<i>For Up To 100, Add</i>		0.65	
		<i>For &gt;100 To 200, Add</i>		0.35	
		<i>For &gt;200 To 500, Add</i>		0.14	
03 21 11 00-0160	LF	#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	1.41	
		<i>For Up To 100, Add</i>		1.00	
		<i>For &gt;100 To 200, Add</i>		0.53	
		<i>For &gt;200 To 500, Add</i>		0.21	
03 21 11 00-0161	LF	#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	.....	1.95	
		<i>For Up To 100, Add</i>		1.40	
		<i>For &gt;100 To 200, Add</i>		0.75	
		<i>For &gt;200 To 500, Add</i>		0.30	
03 21 11 00-0162	LF	#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	0.56	
		<i>For Up To 100, Add</i>		0.39	
		<i>For &gt;100 To 200, Add</i>		0.21	
		<i>For &gt;200 To 500, Add</i>		0.08	
03 21 11 00-0163	LF	#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	0.96	
		<i>For Up To 100, Add</i>		0.67	
		<i>For &gt;100 To 200, Add</i>		0.36	
		<i>For &gt;200 To 500, Add</i>		0.14	
03 21 11 00-0164	LF	#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	1.45	
		<i>For Up To 100, Add</i>		1.04	
		<i>For &gt;100 To 200, Add</i>		0.55	
		<i>For &gt;200 To 500, Add</i>		0.22	
03 21 11 00-0165	LF	#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	.....	2.00	
		<i>For Up To 100, Add</i>		1.45	
		<i>For &gt;100 To 200, Add</i>		0.77	
		<i>For &gt;200 To 500, Add</i>		0.31	
03 21 11 00-0166	LF	#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	.....	0.58	
		<i>For Up To 100, Add</i>		0.41	
		<i>For &gt;100 To 200, Add</i>		0.22	
		<i>For &gt;200 To 500, Add</i>		0.09	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0167 LF #4, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	1.00	
<i>For Up To 100, Add</i>	0.71	
<i>For &gt;100 To 200, Add</i>	0.38	
<i>For &gt;200 To 500, Add</i>	0.15	
03 21 11 00-0168 LF #5, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	1.50	
<i>For Up To 100, Add</i>	1.09	
<i>For &gt;100 To 200, Add</i>	0.58	
<i>For &gt;200 To 500, Add</i>	0.23	
03 21 11 00-0169 LF #6, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	2.08	
<i>For Up To 100, Add</i>	1.53	
<i>For &gt;100 To 200, Add</i>	0.81	
<i>For &gt;200 To 500, Add</i>	0.33	
03 21 11 00-0170 LF #7, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	2.73	
<i>For Up To 100, Add</i>	1.59	
<i>For &gt;100 To 200, Add</i>	0.92	
<i>For &gt;200 To 400, Add</i>	0.43	
03 21 11 00-0171 LF #8, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	3.40	
<i>For Up To 100, Add</i>	2.02	
<i>For &gt;100 To 200, Add</i>	1.16	
<i>For &gt;200 To 400, Add</i>	0.55	
03 21 11 00-0172 LF #9, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	4.21	
<i>For Up To 100, Add</i>	2.53	
<i>For &gt;100 To 200, Add</i>	1.45	
<i>For &gt;200 To 400, Add</i>	0.69	
03 21 11 00-0173 LF #10, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	5.16	
<i>For Up To 100, Add</i>	2.55	
<i>For &gt;100 To 200, Add</i>	1.37	
<i>For &gt;200 To 300, Add</i>	0.68	
03 21 11 00-0174 LF #11, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	6.16	
<i>For Up To 100, Add</i>	3.09	
<i>For &gt;100 To 200, Add</i>	1.65	
<i>For &gt;200 To 300, Add</i>	0.82	
03 21 11 00-0175 LF #14, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	8.57	
<i>For Up To 100, Add</i>	4.36	
<i>For &gt;100 To 200, Add</i>	2.31	
<i>For &gt;200 To 300, Add</i>	1.15	
03 21 11 00-0176 LF #18, Grade 60, Elevated Slabs, Steel Reinforcement Bar .....	14.73	
<i>For Up To 100, Add</i>	7.59	
<i>For &gt;100 To 200, Add</i>	4.00	
<i>For &gt;200 To 300, Add</i>	2.00	
03 21 11 00-0177 LF #6, Grade 75, Elevated Slabs, Steel Reinforcement Bar .....	2.16	
<i>For Up To 100, Add</i>	1.61	
<i>For &gt;100 To 200, Add</i>	0.85	
<i>For &gt;200 To 500, Add</i>	0.34	
03 21 11 00-0178 LF #7, Grade 75, Elevated Slabs, Steel Reinforcement Bar .....	2.84	
<i>For Up To 100, Add</i>	1.67	
<i>For &gt;100 To 200, Add</i>	0.97	
<i>For &gt;200 To 400, Add</i>	0.45	
03 21 11 00-0179 LF #8, Grade 75, Elevated Slabs, Steel Reinforcement Bar .....	3.54	
<i>For Up To 100, Add</i>	2.13	
<i>For &gt;100 To 200, Add</i>	1.22	
<i>For &gt;200 To 400, Add</i>	0.58	
03 21 11 00-0180 LF #9, Grade 75, Elevated Slabs, Steel Reinforcement Bar .....	4.38	
<i>For Up To 100, Add</i>	2.66	
<i>For &gt;100 To 200, Add</i>	1.52	
<i>For &gt;200 To 400, Add</i>	0.72	
03 21 11 00-0181 LF #10, Grade 75, Elevated Slabs, Steel Reinforcement Bar .....	5.38	
<i>For Up To 100, Add</i>	2.69	
<i>For &gt;100 To 200, Add</i>	1.43	
<i>For &gt;200 To 300, Add</i>	0.72	
03 21 11 00-0182 LF #11, Grade 75, Elevated Slabs, Steel Reinforcement Bar .....	6.44	
<i>For Up To 100, Add</i>	3.26	
<i>For &gt;100 To 200, Add</i>	1.73	
<i>For &gt;200 To 300, Add</i>	0.86	
03 21 11 00-0183 LF #14, Grade 75, Elevated Slabs, Steel Reinforcement Bar .....	8.97	
<i>For Up To 100, Add</i>	4.60	
<i>For &gt;100 To 200, Add</i>	2.43	
<i>For &gt;200 To 300, Add</i>	1.21	
03 21 11 00-0184 LF #18, Grade 75, Elevated Slabs, Steel Reinforcement Bar .....	15.43	
<i>For Up To 100, Add</i>	8.01	
<i>For &gt;100 To 200, Add</i>	4.21	
<i>For &gt;200 To 300, Add</i>	2.11	
03 21 11 00-0185 LF #3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar .....	0.60	
<i>For Up To 100, Add</i>	0.43	
<i>For &gt;100 To 200, Add</i>	0.23	
<i>For &gt;200 To 500, Add</i>	0.09	
03 21 11 00-0186 LF #4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar .....	1.03	
<i>For Up To 100, Add</i>	0.74	
<i>For &gt;100 To 200, Add</i>	0.40	
<i>For &gt;200 To 500, Add</i>	0.16	
03 21 11 00-0187 LF #5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar .....	1.54	
<i>For Up To 100, Add</i>	1.13	
<i>For &gt;100 To 200, Add</i>	0.60	
<i>For &gt;200 To 500, Add</i>	0.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0188	LF	#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	2.14	
		<i>For Up To 100, Add</i>		1.59	
		<i>For &gt;100 To 200, Add</i>		0.84	
		<i>For &gt;200 To 500, Add</i>		0.34	
03 21 11 00-0189	LF	#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	2.81	
		<i>For Up To 100, Add</i>		1.65	
		<i>For &gt;100 To 200, Add</i>		0.95	
		<i>For &gt;200 To 400, Add</i>		0.45	
03 21 11 00-0190	LF	#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	3.50	
		<i>For Up To 100, Add</i>		2.10	
		<i>For &gt;100 To 200, Add</i>		1.20	
		<i>For &gt;200 To 400, Add</i>		0.57	
03 21 11 00-0191	LF	#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	4.34	
		<i>For Up To 100, Add</i>		2.63	
		<i>For &gt;100 To 200, Add</i>		1.50	
		<i>For &gt;200 To 400, Add</i>		0.71	
03 21 11 00-0192	LF	#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	5.32	
		<i>For Up To 100, Add</i>		2.65	
		<i>For &gt;100 To 200, Add</i>		1.42	
		<i>For &gt;200 To 300, Add</i>		0.71	
03 21 11 00-0193	LF	#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	6.37	
		<i>For Up To 100, Add</i>		3.21	
		<i>For &gt;100 To 200, Add</i>		1.71	
		<i>For &gt;200 To 300, Add</i>		0.85	
03 21 11 00-0194	LF	#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	8.87	
		<i>For Up To 100, Add</i>		4.54	
		<i>For &gt;100 To 200, Add</i>		2.40	
		<i>For &gt;200 To 300, Add</i>		1.20	
03 21 11 00-0195	LF	#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	.....	15.26	
		<i>For Up To 100, Add</i>		7.91	
		<i>For &gt;100 To 200, Add</i>		4.16	
		<i>For &gt;200 To 300, Add</i>		2.08	
<b>03 21 11 00-0196</b>		<b>Walls, Steel Reinforcement Bar</b> <small>(03 21 11)</small>			
		Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.			
03 21 11 00-0197	LF	#3, Grade 40, Walls, Steel Reinforcement Bar	.....	0.53	
		<i>For Up To 100, Add</i>		0.37	
		<i>For &gt;100 To 200, Add</i>		0.20	
		<i>For &gt;200 To 500, Add</i>		0.08	
03 21 11 00-0198	LF	#4, Grade 40, Walls, Steel Reinforcement Bar	.....	0.90	
		<i>For Up To 100, Add</i>		0.64	
		<i>For &gt;100 To 200, Add</i>		0.34	
		<i>For &gt;200 To 500, Add</i>		0.14	
03 21 11 00-0199	LF	#5, Grade 40, Walls, Steel Reinforcement Bar	.....	1.36	
		<i>For Up To 100, Add</i>		0.98	
		<i>For &gt;100 To 200, Add</i>		0.52	
		<i>For &gt;200 To 500, Add</i>		0.21	
03 21 11 00-0200	LF	#6, Grade 40, Walls, Steel Reinforcement Bar	.....	1.89	
		<i>For Up To 100, Add</i>		1.38	
		<i>For &gt;100 To 200, Add</i>		0.73	
		<i>For &gt;200 To 500, Add</i>		0.29	
03 21 11 00-0201	LF	#3, Grade 50, Walls, Steel Reinforcement Bar	.....	0.54	
		<i>For Up To 100, Add</i>		0.38	
		<i>For &gt;100 To 200, Add</i>		0.20	
		<i>For &gt;200 To 500, Add</i>		0.08	
03 21 11 00-0202	LF	#4, Grade 50, Walls, Steel Reinforcement Bar	.....	0.92	
		<i>For Up To 100, Add</i>		0.66	
		<i>For &gt;100 To 200, Add</i>		0.35	
		<i>For &gt;200 To 500, Add</i>		0.14	
03 21 11 00-0203	LF	#5, Grade 50, Walls, Steel Reinforcement Bar	.....	1.40	
		<i>For Up To 100, Add</i>		1.02	
		<i>For &gt;100 To 200, Add</i>		0.54	
		<i>For &gt;200 To 500, Add</i>		0.22	
03 21 11 00-0204	LF	#6, Grade 50, Walls, Steel Reinforcement Bar	.....	1.94	
		<i>For Up To 100, Add</i>		1.43	
		<i>For &gt;100 To 200, Add</i>		0.76	
		<i>For &gt;200 To 500, Add</i>		0.30	
03 21 11 00-0205	LF	#3, Grade 60, Walls, Steel Reinforcement Bar	.....	0.56	
		<i>For Up To 100, Add</i>		0.40	
		<i>For &gt;100 To 200, Add</i>		0.21	
		<i>For &gt;200 To 500, Add</i>		0.09	
03 21 11 00-0206	LF	#4, Grade 60, Walls, Steel Reinforcement Bar	.....	0.96	
		<i>For Up To 100, Add</i>		0.70	
		<i>For &gt;100 To 200, Add</i>		0.37	
		<i>For &gt;200 To 500, Add</i>		0.15	
03 21 11 00-0207	LF	#5, Grade 60, Walls, Steel Reinforcement Bar	.....	1.45	
		<i>For Up To 100, Add</i>		1.07	
		<i>For &gt;100 To 200, Add</i>		0.57	
		<i>For &gt;200 To 500, Add</i>		0.23	
03 21 11 00-0208	LF	#6, Grade 60, Walls, Steel Reinforcement Bar	.....	2.02	
		<i>For Up To 100, Add</i>		1.51	
		<i>For &gt;100 To 200, Add</i>		0.80	
		<i>For &gt;200 To 500, Add</i>		0.32	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0209 LF #7, Grade 60, Walls, Steel Reinforcement Bar .....	2.63	
For Up To 100, Add	1.56	
For >100 To 200, Add	0.90	
For >200 To 400, Add	0.42	
03 21 11 00-0210 LF #8, Grade 60, Walls, Steel Reinforcement Bar .....	3.31	
For Up To 100, Add	1.99	
For >100 To 200, Add	1.14	
For >200 To 400, Add	0.54	
03 21 11 00-0211 LF #9, Grade 60, Walls, Steel Reinforcement Bar .....	4.10	
For Up To 100, Add	2.50	
For >100 To 200, Add	1.42	
For >200 To 400, Add	0.68	
03 21 11 00-0212 LF #10, Grade 60, Walls, Steel Reinforcement Bar .....	5.03	
For Up To 100, Add	2.51	
For >100 To 200, Add	1.34	
For >200 To 300, Add	0.67	
03 21 11 00-0213 LF #11, Grade 60, Walls, Steel Reinforcement Bar .....	6.02	
For Up To 100, Add	3.05	
For >100 To 200, Add	1.62	
For >200 To 300, Add	0.81	
03 21 11 00-0214 LF #14, Grade 60, Walls, Steel Reinforcement Bar .....	8.39	
For Up To 100, Add	4.30	
For >100 To 200, Add	2.27	
For >200 To 300, Add	1.14	
03 21 11 00-0215 LF #18, Grade 60, Walls, Steel Reinforcement Bar .....	14.44	
For Up To 100, Add	7.51	
For >100 To 200, Add	3.95	
For >200 To 300, Add	1.97	
03 21 11 00-0216 LF #6, Grade 75, Walls, Steel Reinforcement Bar .....	2.10	
For Up To 100, Add	1.59	
For >100 To 200, Add	0.84	
For >200 To 500, Add	0.34	
03 21 11 00-0217 LF #7, Grade 75, Walls, Steel Reinforcement Bar .....	2.74	
For Up To 100, Add	1.64	
For >100 To 200, Add	0.94	
For >200 To 400, Add	0.44	
03 21 11 00-0218 LF #8, Grade 75, Walls, Steel Reinforcement Bar .....	3.45	
For Up To 100, Add	2.10	
For >100 To 200, Add	1.20	
For >200 To 400, Add	0.57	
03 21 11 00-0219 LF #9, Grade 75, Walls, Steel Reinforcement Bar .....	4.27	
For Up To 100, Add	2.62	
For >100 To 200, Add	1.49	
For >200 To 400, Add	0.71	
03 21 11 00-0220 LF #10, Grade 75, Walls, Steel Reinforcement Bar .....	5.25	
For Up To 100, Add	2.65	
For >100 To 200, Add	1.41	
For >200 To 300, Add	0.70	
03 21 11 00-0221 LF #11, Grade 75, Walls, Steel Reinforcement Bar .....	6.30	
For Up To 100, Add	3.21	
For >100 To 200, Add	1.70	
For >200 To 300, Add	0.85	
03 21 11 00-0222 LF #14, Grade 75, Walls, Steel Reinforcement Bar .....	8.79	
For Up To 100, Add	4.54	
For >100 To 200, Add	2.39	
For >200 To 300, Add	1.20	
03 21 11 00-0223 LF #18, Grade 75, Walls, Steel Reinforcement Bar .....	15.14	
For Up To 100, Add	7.93	
For >100 To 200, Add	4.16	
For >200 To 300, Add	2.08	
03 21 11 00-0224 LF #3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	0.58	
For Up To 100, Add	0.42	
For >100 To 200, Add	0.22	
For >200 To 500, Add	0.09	
03 21 11 00-0225 LF #4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	0.99	
For Up To 100, Add	0.73	
For >100 To 200, Add	0.39	
For >200 To 500, Add	0.15	
03 21 11 00-0226 LF #5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	1.49	
For Up To 100, Add	1.11	
For >100 To 200, Add	0.59	
For >200 To 500, Add	0.23	
03 21 11 00-0227 LF #6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	2.08	
For Up To 100, Add	1.57	
For >100 To 200, Add	0.83	
For >200 To 500, Add	0.33	
03 21 11 00-0228 LF #7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	2.71	
For Up To 100, Add	1.62	
For >100 To 200, Add	0.93	
For >200 To 400, Add	0.44	
03 21 11 00-0229 LF #8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar .....	3.41	
For Up To 100, Add	2.07	
For >100 To 200, Add	1.18	
For >200 To 400, Add	0.56	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0230	LF		#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	4.23	
			<i>For Up To 100, Add</i>	2.59	
			<i>For &gt;100 To 200, Add</i>	1.47	
			<i>For &gt;200 To 400, Add</i>	0.70	
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	5.19	
			<i>For Up To 100, Add</i>	2.61	
			<i>For &gt;100 To 200, Add</i>	1.39	
			<i>For &gt;200 To 300, Add</i>	0.69	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	6.23	
			<i>For Up To 100, Add</i>	3.17	
			<i>For &gt;100 To 200, Add</i>	1.68	
			<i>For &gt;200 To 300, Add</i>	0.84	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	8.69	
			<i>For Up To 100, Add</i>	4.48	
			<i>For &gt;100 To 200, Add</i>	2.36	
			<i>For &gt;200 To 300, Add</i>	1.18	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar.....	14.97	
			<i>For Up To 100, Add</i>	7.82	
			<i>For &gt;100 To 200, Add</i>	4.11	
			<i>For &gt;200 To 300, Add</i>	2.05	
03 21 11 00-0235			<b>Mechanical Joint Connection</b> (03 21 11)		
03 21 11 00-0236			<b>Thermal Type Mechanical Joint Connection</b> (03 21 11 00-0235)		
03 21 11 00-0237	EA		Thermal Type Mechanical Joint Connection, Add Per Splice.....	221.69	
03 21 11 00-0238			<b>Screwed Type Mechanical Joint Connection</b> (03 21 11 00-0235)		
03 21 11 00-0239	EA		Screwed Type Mechanical Joint Connection, Add Per Splice.....	121.78	
03 21 11 00-0240			<b>Deformed Straight Dowels</b> (03 21 11)		
			Note: Excludes drilling. See CSI section 02 41 19 13-0221 for drilling in concrete.		
03 21 11 00-0241	EA		3/8" Diameter x 24" Long, Deformed Straight Dowel.....	3.08	
			<i>For Up To 12" Length, Deduct</i>	-0.34	
			<i>For &gt;12" To &lt;24" Length, Deduct</i>	-0.17	
03 21 11 00-0242	EA		1/2" Diameter x 24" Long, Deformed Straight Dowel.....	3.68	
			<i>For Up To 12" Length, Deduct</i>	-0.45	
			<i>For &gt;12" To &lt;24" Length, Deduct</i>	-0.23	
03 21 11 00-0243	EA		5/8" Diameter x 24" Long, Deformed Straight Dowel.....	4.46	
			<i>For Up To 12" Length, Deduct</i>	-0.71	
			<i>For &gt;12" To &lt;24" Length, Deduct</i>	-0.36	
03 21 11 00-0244	EA		3/4" Diameter x 24" Long, Deformed Straight Dowel.....	5.39	
			<i>For Up To 12" Length, Deduct</i>	-1.02	
			<i>For &gt;12" To &lt;24" Length, Deduct</i>	-0.51	
03 21 11 00-0245	EA		7/8" Diameter x 24" Long, Deformed Straight Dowel.....	6.32	
			<i>For Up To 12" Length, Deduct</i>	-1.43	
			<i>For &gt;12" To &lt;24" Length, Deduct</i>	-0.71	
03 21 11 00-0246	EA		1" Diameter x 24" Long, Deformed Straight Dowel.....	7.97	
			<i>For Up To 12" Length, Deduct</i>	-1.83	
			<i>For &gt;12" To &lt;24" Length, Deduct</i>	-0.92	
03 21 11 00-0247	EA		1-1/8" Diameter x 24" Long, Deformed Straight Dowel.....	9.36	
			<i>For Up To 12" Length, Deduct</i>	-2.26	
			<i>For &gt;12" To &lt;24" Length, Deduct</i>	-1.13	
03 21 11 00-0248	EA		1-1/4" Diameter x 24" Long, Deformed Straight Dowel.....	11.43	
			<i>For Up To 12" Length, Deduct</i>	-2.95	
			<i>For &gt;12" To &lt;24" Length, Deduct</i>	-1.47	
03 21 11 00-0249	EA		1-3/8" Diameter x 24" Long, Deformed Straight Dowel.....	13.55	
			<i>For Up To 12" Length, Deduct</i>	-3.64	
			<i>For &gt;12" To &lt;24" Length, Deduct</i>	-1.82	
03 21 11 00-0250			<b>Spirals, Reinforcing Steel</b> (03 21 11)		
03 21 11 00-0251	TON		Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,577.68	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0252	TON		>15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,534.82	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0253	TON		>24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,502.15	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0254	TON		>36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,448.70	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0255	TON		>48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,376.42	
			<i>For Grade 75, Add</i>	134.43	
03 21 11 00-0256	TON		>64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,349.03	
			<i>For Grade 75, Add</i>	137.74	
03 21 11 00-0257	TON		>84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,288.52	
			<i>For Grade 75, Add</i>	137.74	
03 21 11 00-0258			<b>Dowel Or Hairpin, Drilled And Epoxy Into Concrete</b> (03 21 11)		
03 21 11 00-0259	EA		Dowels Or Hairpin, 1/2" x 30" Length, Drilled And Epoxy In Concrete, 6" Embedment.....	30.30	
03 21 11 00-0260	EA		Dowels Or Hairpin, 1/2" x 36" Length, Drilled And Epoxy In Concrete, >6" To 12" Embedment.....	31.65	





<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 11 00-0261	Accessories For Reinforcing Steel <small>(03 21 11)</small>		
03 21 11 00-0262	Reinforcing Steel Lap-Weld Splice <small>(03 21 11 00-0261)</small>		
03 21 11 00-0263	EA Up To #6 Reinforcing Steel Lap-Weld Splice.....	60.31	
03 21 11 00-0264	EA >#6 Reinforcing Steel Lap-Weld Splice.....	95.34	

03 21 11 00-0265	Reinforcing Steel Sleeve And Wedge Splice Joint <small>(03 21 11 00-0261)</small>		
03 21 11 00-0266	EA Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	32.98	
03 21 11 00-0267	EA #5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	49.01	
03 21 11 00-0268	EA #6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	71.67	

**03 21 13 Galvanized Reinforcement Steel Bars (03 21)**

03 21 13 00-0001	Beams And Girders, Galvanized Steel Reinforcement Bar <small>(03 21 13)</small>		
	Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0002	LF #3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	0.81	
	For Up To 100, Add	0.56	
	For >100 To 200, Add	0.30	
	For >200 To 500, Add	0.12	
03 21 13 00-0003	LF #4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	1.38	
	For Up To 100, Add	0.97	
	For >100 To 200, Add	0.52	
	For >200 To 500, Add	0.21	
03 21 13 00-0004	LF #5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.08	
	For Up To 100, Add	1.49	
	For >100 To 200, Add	0.79	
	For >200 To 500, Add	0.32	
03 21 13 00-0005	LF #6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.88	
	For Up To 100, Add	2.09	
	For >100 To 200, Add	1.11	
	For >200 To 500, Add	0.45	
03 21 13 00-0006	LF #3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	0.83	
	For Up To 100, Add	0.58	
	For >100 To 200, Add	0.31	
	For >200 To 500, Add	0.12	
03 21 13 00-0007	LF #4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	1.40	
	For Up To 100, Add	0.99	
	For >100 To 200, Add	0.53	
	For >200 To 500, Add	0.21	
03 21 13 00-0008	LF #5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.12	
	For Up To 100, Add	1.53	
	For >100 To 200, Add	0.81	
	For >200 To 500, Add	0.33	
03 21 13 00-0009	LF #6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.93	
	For Up To 100, Add	2.14	
	For >100 To 200, Add	1.14	
	For >200 To 500, Add	0.46	
03 21 13 00-0010	LF #3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	0.85	
	For Up To 100, Add	0.60	
	For >100 To 200, Add	0.32	
	For >200 To 500, Add	0.13	
03 21 13 00-0011	LF #4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	1.44	
	For Up To 100, Add	1.03	
	For >100 To 200, Add	0.55	
	For >200 To 500, Add	0.22	
03 21 13 00-0012	LF #5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	2.17	
	For Up To 100, Add	1.58	
	For >100 To 200, Add	0.84	
	For >200 To 500, Add	0.34	
03 21 13 00-0013	LF #6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	3.01	
	For Up To 100, Add	2.22	
	For >100 To 200, Add	1.18	
	For >200 To 500, Add	0.47	
03 21 13 00-0014	LF #7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	3.92	
	For Up To 100, Add	2.30	
	For >100 To 200, Add	1.33	
	For >200 To 400, Add	0.62	
03 21 13 00-0015	LF #8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	4.92	
	For Up To 100, Add	2.93	
	For >100 To 200, Add	1.68	
	For >200 To 400, Add	0.79	
03 21 13 00-0016	LF #9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	6.07	
	For Up To 100, Add	3.66	
	For >100 To 200, Add	2.10	
	For >200 To 400, Add	0.99	
03 21 13 00-0017	LF #10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar.....	7.45	
	For Up To 100, Add	3.70	
	For >100 To 200, Add	1.98	
	For >200 To 300, Add	0.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0018	LF	#11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	8.90	
			For Up To 100, Add	4.47	
			For >100 To 200, Add	2.38	
			For >200 To 300, Add	1.19	
03 21	13 00-0019	LF	#14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	12.41	
			For Up To 100, Add	6.32	
			For >100 To 200, Add	3.35	
			For >200 To 300, Add	1.67	
03 21	13 00-0020	LF	#18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	21.32	
			For Up To 100, Add	11.01	
			For >100 To 200, Add	5.80	
			For >200 To 300, Add	2.90	
03 21	13 00-0021	LF	#6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	3.09	
			For Up To 100, Add	2.30	
			For >100 To 200, Add	1.22	
			For >200 To 500, Add	0.49	
03 21	13 00-0022	LF	#7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	4.03	
			For Up To 100, Add	2.38	
			For >100 To 200, Add	1.37	
			For >200 To 400, Add	0.65	
03 21	13 00-0023	LF	#8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	5.06	
			For Up To 100, Add	3.04	
			For >100 To 200, Add	1.74	
			For >200 To 400, Add	0.82	
03 21	13 00-0024	LF	#9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	6.24	
			For Up To 100, Add	3.79	
			For >100 To 200, Add	2.16	
			For >200 To 400, Add	1.03	
03 21	13 00-0025	LF	#10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	7.67	
			For Up To 100, Add	3.83	
			For >100 To 200, Add	2.04	
			For >200 To 300, Add	1.02	
03 21	13 00-0026	LF	#11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	9.18	
			For Up To 100, Add	4.64	
			For >100 To 200, Add	2.47	
			For >200 To 300, Add	1.23	
03 21	13 00-0027	LF	#14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	12.80	
			For Up To 100, Add	6.56	
			For >100 To 200, Add	3.47	
			For >200 To 300, Add	1.73	
03 21	13 00-0028	LF	#18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	22.03	
			For Up To 100, Add	11.44	
			For >100 To 200, Add	6.02	
			For >200 To 300, Add	3.01	
03 21	13 00-0029		<b>Columns, Galvanized Steel Reinforcement Bar</b> <small>(03 21 13)</small>		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21	13 00-0030	LF	#3, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	0.85	
			For Up To 100, Add	0.57	
			For >100 To 200, Add	0.31	
			For >200 To 500, Add	0.12	
03 21	13 00-0031	LF	#4, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	1.46	
			For Up To 100, Add	1.00	
			For >100 To 200, Add	0.54	
			For >200 To 500, Add	0.22	
03 21	13 00-0032	LF	#5, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	2.17	
			For Up To 100, Add	1.52	
			For >100 To 200, Add	0.82	
			For >200 To 500, Add	0.33	
03 21	13 00-0033	LF	#6, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	3.01	
			For Up To 100, Add	2.15	
			For >100 To 200, Add	1.15	
			For >200 To 500, Add	0.46	
03 21	13 00-0034	LF	#3, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	0.87	
			For Up To 100, Add	0.59	
			For >100 To 200, Add	0.32	
			For >200 To 500, Add	0.13	
03 21	13 00-0035	LF	#4, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	1.48	
			For Up To 100, Add	1.02	
			For >100 To 200, Add	0.55	
			For >200 To 500, Add	0.22	
03 21	13 00-0036	LF	#5, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	2.21	
			For Up To 100, Add	1.56	
			For >100 To 200, Add	0.84	
			For >200 To 500, Add	0.33	
03 21	13 00-0037	LF	#6, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	3.06	
			For Up To 100, Add	2.20	
			For >100 To 200, Add	1.17	
			For >200 To 500, Add	0.47	
03 21	13 00-0038	LF	#3, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	0.89	
			For Up To 100, Add	0.61	
			For >100 To 200, Add	0.33	
			For >200 To 500, Add	0.13	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0039 LF #4, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	1.52	
For Up To 100, Add	1.06	
For >100 To 200, Add	0.57	
For >200 To 500, Add	0.23	
03 21 13 00-0040 LF #5, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	2.26	
For Up To 100, Add	1.61	
For >100 To 200, Add	0.86	
For >200 To 500, Add	0.34	
03 21 13 00-0041 LF #6, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	3.14	
For Up To 100, Add	2.28	
For >100 To 200, Add	1.21	
For >200 To 500, Add	0.48	
03 21 13 00-0042 LF #7, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	4.09	
For Up To 100, Add	2.36	
For >100 To 200, Add	1.37	
For >200 To 400, Add	0.64	
03 21 13 00-0043 LF #8, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	5.10	
For Up To 100, Add	2.99	
For >100 To 200, Add	1.73	
For >200 To 400, Add	0.81	
03 21 13 00-0044 LF #9, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	6.29	
For Up To 100, Add	3.74	
For >100 To 200, Add	2.15	
For >200 To 400, Add	1.01	
03 21 13 00-0045 LF #10, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	7.70	
For Up To 100, Add	3.77	
For >100 To 200, Add	2.03	
For >200 To 300, Add	1.01	
03 21 13 00-0046 LF #11, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	9.19	
For Up To 100, Add	4.56	
For >100 To 200, Add	2.44	
For >200 To 300, Add	1.22	
03 21 13 00-0047 LF #14, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	12.79	
For Up To 100, Add	6.44	
For >100 To 200, Add	3.42	
For >200 To 300, Add	1.71	
03 21 13 00-0048 LF #18, Grade 60, Columns, Galvanized Steel Reinforcement Bar.....	21.90	
For Up To 100, Add	11.19	
For >100 To 200, Add	5.92	
For >200 To 300, Add	2.96	
03 21 13 00-0049 LF #6, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	3.22	
For Up To 100, Add	2.36	
For >100 To 200, Add	1.25	
For >200 To 500, Add	0.50	
03 21 13 00-0050 LF #7, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	4.20	
For Up To 100, Add	2.44	
For >100 To 200, Add	1.41	
For >200 To 400, Add	0.66	
03 21 13 00-0051 LF #8, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	5.24	
For Up To 100, Add	3.10	
For >100 To 200, Add	1.78	
For >200 To 400, Add	0.84	
03 21 13 00-0052 LF #9, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	6.46	
For Up To 100, Add	3.87	
For >100 To 200, Add	2.22	
For >200 To 400, Add	1.05	
03 21 13 00-0053 LF #10, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	7.92	
For Up To 100, Add	3.90	
For >100 To 200, Add	2.09	
For >200 To 300, Add	1.05	
03 21 13 00-0054 LF #11, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	9.47	
For Up To 100, Add	4.73	
For >100 To 200, Add	2.52	
For >200 To 300, Add	1.26	
03 21 13 00-0055 LF #14, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	13.18	
For Up To 100, Add	6.67	
For >100 To 200, Add	3.54	
For >200 To 300, Add	1.77	
03 21 13 00-0056 LF #18, Grade 75, Columns, Galvanized Steel Reinforcement Bar.....	22.61	
For Up To 100, Add	11.61	
For >100 To 200, Add	6.13	
For >200 To 300, Add	3.07	
<b>03 21 13 00-0057 Footings, Galvanized Steel Reinforcement Bar (03 21 13)</b>		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0058 LF #3, Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	0.75	
For Up To 100, Add	0.53	
For >100 To 200, Add	0.29	
For >200 To 500, Add	0.11	
03 21 13 00-0059 LF #4, Grade 40, Footings, Galvanized Steel Reinforcement Bar.....	1.29	
For Up To 100, Add	0.94	
For >100 To 200, Add	0.50	
For >200 To 500, Add	0.20	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0060	LF	#5, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	1.94	
			For Up To 100, Add	1.43	
			For >100 To 200, Add	0.76	
			For >200 To 500, Add	0.30	
03 21	13 00-0061	LF	#6, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	2.69	
			For Up To 100, Add	2.02	
			For >100 To 200, Add	1.07	
			For >200 To 500, Add	0.43	
03 21	13 00-0062	LF	#3, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	0.77	
			For Up To 100, Add	0.55	
			For >100 To 200, Add	0.30	
			For >200 To 500, Add	0.12	
03 21	13 00-0063	LF	#4, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	1.31	
			For Up To 100, Add	0.96	
			For >100 To 200, Add	0.51	
			For >200 To 500, Add	0.20	
03 21	13 00-0064	LF	#5, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	1.98	
			For Up To 100, Add	1.47	
			For >100 To 200, Add	0.78	
			For >200 To 500, Add	0.31	
03 21	13 00-0065	LF	#6, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	2.74	
			For Up To 100, Add	2.07	
			For >100 To 200, Add	1.09	
			For >200 To 500, Add	0.44	
03 21	13 00-0066	LF	#3, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	0.79	
			For Up To 100, Add	0.57	
			For >100 To 200, Add	0.31	
			For >200 To 500, Add	0.12	
03 21	13 00-0067	LF	#4, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	1.35	
			For Up To 100, Add	1.00	
			For >100 To 200, Add	0.53	
			For >200 To 500, Add	0.21	
03 21	13 00-0068	LF	#5, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	2.03	
			For Up To 100, Add	1.52	
			For >100 To 200, Add	0.80	
			For >200 To 500, Add	0.32	
03 21	13 00-0069	LF	#6, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	2.82	
			For Up To 100, Add	2.15	
			For >100 To 200, Add	1.13	
			For >200 To 500, Add	0.45	
03 21	13 00-0070	LF	#7, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	3.69	
			For Up To 100, Add	2.22	
			For >100 To 200, Add	1.27	
			For >200 To 400, Add	0.60	
03 21	13 00-0071	LF	#8, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	4.63	
			For Up To 100, Add	2.83	
			For >100 To 200, Add	1.61	
			For >200 To 400, Add	0.77	
03 21	13 00-0072	LF	#9, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	5.74	
			For Up To 100, Add	3.55	
			For >100 To 200, Add	2.01	
			For >200 To 400, Add	0.96	
03 21	13 00-0073	LF	#10, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	7.06	
			For Up To 100, Add	3.58	
			For >100 To 200, Add	1.90	
			For >200 To 300, Add	0.95	
03 21	13 00-0074	LF	#11, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	8.47	
			For Up To 100, Add	4.34	
			For >100 To 200, Add	2.30	
			For >200 To 300, Add	1.15	
03 21	13 00-0075	LF	#14, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	11.85	
			For Up To 100, Add	6.15	
			For >100 To 200, Add	3.24	
			For >200 To 300, Add	1.62	
03 21	13 00-0076	LF	#18, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	20.42	
			For Up To 100, Add	10.74	
			For >100 To 200, Add	5.62	
			For >200 To 300, Add	2.81	
03 21	13 00-0077	LF	#6, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	2.90	
			For Up To 100, Add	2.23	
			For >100 To 200, Add	1.17	
			For >200 To 500, Add	0.47	
03 21	13 00-0078	LF	#7, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	3.80	
			For Up To 100, Add	2.30	
			For >100 To 200, Add	1.31	
			For >200 To 400, Add	0.62	
03 21	13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	4.77	
			For Up To 100, Add	2.93	
			For >100 To 200, Add	1.67	
			For >200 To 400, Add	0.79	
03 21	13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	5.91	
			For Up To 100, Add	3.68	
			For >100 To 200, Add	2.08	
			For >200 To 400, Add	0.99	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0081 LF #10, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	7.28	
For Up To 100, Add	3.71	
For >100 To 200, Add	1.97	
For >200 To 300, Add	0.98	
03 21 13 00-0082 LF #11, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	8.75	
For Up To 100, Add	4.51	
For >100 To 200, Add	2.38	
For >200 To 300, Add	1.19	
03 21 13 00-0083 LF #14, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	12.24	
For Up To 100, Add	6.39	
For >100 To 200, Add	3.35	
For >200 To 300, Add	1.68	
03 21 13 00-0084 LF #18, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	21.13	
For Up To 100, Add	11.17	
For >100 To 200, Add	5.84	
For >200 To 300, Add	2.92	
<b>03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)</b>		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0086 LF #3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....	0.73	
For Up To 100, Add	0.53	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 13 00-0087 LF #4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.25	
For Up To 100, Add	0.92	
For >100 To 200, Add	0.49	
For >200 To 500, Add	0.20	
03 21 13 00-0088 LF #5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.88	
For Up To 100, Add	1.41	
For >100 To 200, Add	0.74	
For >200 To 500, Add	0.30	
03 21 13 00-0089 LF #6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....	2.61	
For Up To 100, Add	1.99	
For >100 To 200, Add	1.05	
For >200 To 500, Add	0.42	
03 21 13 00-0090 LF #3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....	0.75	
For Up To 100, Add	0.55	
For >100 To 200, Add	0.29	
For >200 To 500, Add	0.12	
03 21 13 00-0091 LF #4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.27	
For Up To 100, Add	0.94	
For >100 To 200, Add	0.50	
For >200 To 500, Add	0.20	
03 21 13 00-0092 LF #5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.92	
For Up To 100, Add	1.45	
For >100 To 200, Add	0.76	
For >200 To 500, Add	0.31	
03 21 13 00-0093 LF #6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....	2.66	
For Up To 100, Add	2.04	
For >100 To 200, Add	1.07	
For >200 To 500, Add	0.43	
03 21 13 00-0094 LF #3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	0.77	
For Up To 100, Add	0.57	
For >100 To 200, Add	0.30	
For >200 To 500, Add	0.12	
03 21 13 00-0095 LF #4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.31	
For Up To 100, Add	0.98	
For >100 To 200, Add	0.52	
For >200 To 500, Add	0.21	
03 21 13 00-0096 LF #5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.97	
For Up To 100, Add	1.50	
For >100 To 200, Add	0.79	
For >200 To 500, Add	0.32	
03 21 13 00-0097 LF #6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	2.74	
For Up To 100, Add	2.12	
For >100 To 200, Add	1.11	
For >200 To 500, Add	0.44	
03 21 13 00-0098 LF #7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	3.61	
For Up To 100, Add	2.19	
For >100 To 200, Add	1.25	
For >200 To 400, Add	0.59	
03 21 13 00-0099 LF #8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	4.54	
For Up To 100, Add	2.80	
For >100 To 200, Add	1.59	
For >200 To 400, Add	0.76	
03 21 13 00-0100 LF #9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	5.63	
For Up To 100, Add	3.51	
For >100 To 200, Add	1.99	
For >200 To 400, Add	0.95	
03 21 13 00-0101 LF #10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	6.93	
For Up To 100, Add	3.54	
For >100 To 200, Add	1.87	
For >200 To 300, Add	0.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	8.33	
			For Up To 100, Add	4.30	
			For >100 To 200, Add	2.27	
			For >200 To 300, Add	1.13	
03 21	13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	11.65	
			For Up To 100, Add	6.09	
			For >100 To 200, Add	3.20	
			For >200 To 300, Add	1.60	
03 21	13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	20.13	
			For Up To 100, Add	10.66	
			For >100 To 200, Add	5.57	
			For >200 To 300, Add	2.78	
03 21	13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	2.82	
			For Up To 100, Add	2.20	
			For >100 To 200, Add	1.15	
			For >200 To 500, Add	0.46	
03 21	13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	3.72	
			For Up To 100, Add	2.27	
			For >100 To 200, Add	1.29	
			For >200 To 400, Add	0.61	
03 21	13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	4.68	
			For Up To 100, Add	2.90	
			For >100 To 200, Add	1.64	
			For >200 To 400, Add	0.78	
03 21	13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	5.80	
			For Up To 100, Add	3.64	
			For >100 To 200, Add	2.05	
			For >200 To 400, Add	0.98	
03 21	13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	7.15	
			For Up To 100, Add	3.67	
			For >100 To 200, Add	1.94	
			For >200 To 300, Add	0.97	
03 21	13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	8.61	
			For Up To 100, Add	4.47	
			For >100 To 200, Add	2.35	
			For >200 To 300, Add	1.18	
03 21	13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	12.04	
			For Up To 100, Add	6.33	
			For >100 To 200, Add	3.31	
			For >200 To 300, Add	1.66	
03 21	13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	20.84	
			For Up To 100, Add	11.08	
			For >100 To 200, Add	5.78	
			For >200 To 300, Add	2.89	
03 21	13 00-0113		<b>Elevated Slabs, Galvanized Steel Reinforcement Bar</b> <small>(03 21 13)</small>		
			Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21	13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	0.68	
			For Up To 100, Add	0.51	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21	13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.18	
			For Up To 100, Add	0.89	
			For >100 To 200, Add	0.47	
			For >200 To 500, Add	0.19	
03 21	13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.78	
			For Up To 100, Add	1.37	
			For >100 To 200, Add	0.72	
			For >200 To 500, Add	0.29	
03 21	13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	2.48	
			For Up To 100, Add	1.93	
			For >100 To 200, Add	1.01	
			For >200 To 500, Add	0.41	
03 21	13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	0.70	
			For Up To 100, Add	0.53	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21	13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.20	
			For Up To 100, Add	0.91	
			For >100 To 200, Add	0.48	
			For >200 To 500, Add	0.19	
03 21	13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.82	
			For Up To 100, Add	1.41	
			For >100 To 200, Add	0.74	
			For >200 To 500, Add	0.30	
03 21	13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	2.53	
			For Up To 100, Add	1.98	
			For >100 To 200, Add	1.04	
			For >200 To 500, Add	0.42	
03 21	13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	0.72	
			For Up To 100, Add	0.55	
			For >100 To 200, Add	0.29	
			For >200 To 500, Add	0.12	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0123 LF #4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.24	
For Up To 100, Add	0.95	
For >100 To 200, Add	0.50	
For >200 To 500, Add	0.20	
03 21 13 00-0124 LF #5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.87	
For Up To 100, Add	1.46	
For >100 To 200, Add	0.76	
For >200 To 500, Add	0.31	
03 21 13 00-0125 LF #6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	2.61	
For Up To 100, Add	2.06	
For >100 To 200, Add	1.08	
For >200 To 500, Add	0.43	
03 21 13 00-0126 LF #7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	3.45	
For Up To 100, Add	2.13	
For >100 To 200, Add	1.21	
For >200 To 400, Add	0.58	
03 21 13 00-0127 LF #8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	4.34	
For Up To 100, Add	2.73	
For >100 To 200, Add	1.54	
For >200 To 400, Add	0.74	
03 21 13 00-0128 LF #9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	5.41	
For Up To 100, Add	3.43	
For >100 To 200, Add	1.93	
For >200 To 400, Add	0.93	
03 21 13 00-0129 LF #10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	6.68	
For Up To 100, Add	3.47	
For >100 To 200, Add	1.82	
For >200 To 300, Add	0.91	
03 21 13 00-0130 LF #11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	8.04	
For Up To 100, Add	4.22	
For >100 To 200, Add	2.21	
For >200 To 300, Add	1.10	
03 21 13 00-0131 LF #14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	11.28	
For Up To 100, Add	5.98	
For >100 To 200, Add	3.12	
For >200 To 300, Add	1.56	
03 21 13 00-0132 LF #18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	19.54	
For Up To 100, Add	10.48	
For >100 To 200, Add	5.45	
For >200 To 300, Add	2.72	
03 21 13 00-0133 LF #6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	2.69	
For Up To 100, Add	2.14	
For >100 To 200, Add	1.12	
For >200 To 500, Add	0.45	
03 21 13 00-0134 LF #7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	3.56	
For Up To 100, Add	2.21	
For >100 To 200, Add	1.25	
For >200 To 400, Add	0.60	
03 21 13 00-0135 LF #8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	4.48	
For Up To 100, Add	2.83	
For >100 To 200, Add	1.59	
For >200 To 400, Add	0.76	
03 21 13 00-0136 LF #9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	5.58	
For Up To 100, Add	3.56	
For >100 To 200, Add	2.00	
For >200 To 400, Add	0.96	
03 21 13 00-0137 LF #10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	6.90	
For Up To 100, Add	3.60	
For >100 To 200, Add	1.89	
For >200 To 300, Add	0.94	
03 21 13 00-0138 LF #11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	8.32	
For Up To 100, Add	4.38	
For >100 To 200, Add	2.29	
For >200 To 300, Add	1.15	
03 21 13 00-0139 LF #14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	11.67	
For Up To 100, Add	6.22	
For >100 To 200, Add	3.24	
For >200 To 300, Add	1.62	
03 21 13 00-0140 LF #18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	20.25	
For Up To 100, Add	10.91	
For >100 To 200, Add	5.66	
For >200 To 300, Add	2.83	
 03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar <sup>(03 21 13)</sup>		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0142 LF #3, Grade 40, Walls, Galvanized Steel Reinforcement Bar .....	0.66	
For Up To 100, Add	0.50	
For >100 To 200, Add	0.26	
For >200 To 500, Add	0.11	
03 21 13 00-0143 LF #4, Grade 40, Walls, Galvanized Steel Reinforcement Bar .....	1.14	
For Up To 100, Add	0.88	
For >100 To 200, Add	0.46	
For >200 To 500, Add	0.18	

<b>03</b>	<b>Concrete</b>
<b>03 20</b>	<b>Concrete Reinforcing</b>
<b>03 21</b>	<b>Reinforcement Bars</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21	13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar	1.73	
			<i>For Up To 100, Add</i>	1.35	
			<i>For &gt;100 To 200, Add</i>	0.71	
			<i>For &gt;200 To 500, Add</i>	0.28	
03 21	13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar	2.42	
			<i>For Up To 100, Add</i>	1.91	
			<i>For &gt;100 To 200, Add</i>	1.00	
			<i>For &gt;200 To 500, Add</i>	0.40	
03 21	13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar	0.68	
			<i>For Up To 100, Add</i>	0.52	
			<i>For &gt;100 To 200, Add</i>	0.27	
			<i>For &gt;200 To 500, Add</i>	0.11	
03 21	13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.16	
			<i>For Up To 100, Add</i>	0.90	
			<i>For &gt;100 To 200, Add</i>	0.47	
			<i>For &gt;200 To 500, Add</i>	0.19	
03 21	13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar	1.77	
			<i>For Up To 100, Add</i>	1.39	
			<i>For &gt;100 To 200, Add</i>	0.73	
			<i>For &gt;200 To 500, Add</i>	0.29	
03 21	13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar	2.47	
			<i>For Up To 100, Add</i>	1.96	
			<i>For &gt;100 To 200, Add</i>	1.02	
			<i>For &gt;200 To 500, Add</i>	0.41	
03 21	13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar	0.70	
			<i>For Up To 100, Add</i>	0.54	
			<i>For &gt;100 To 200, Add</i>	0.28	
			<i>For &gt;200 To 500, Add</i>	0.11	
03 21	13 00-0151	LF	#4, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.20	
			<i>For Up To 100, Add</i>	0.94	
			<i>For &gt;100 To 200, Add</i>	0.49	
			<i>For &gt;200 To 500, Add</i>	0.20	
03 21	13 00-0152	LF	#5, Grade 60, Walls, Galvanized Steel Reinforcement Bar	1.82	
			<i>For Up To 100, Add</i>	1.44	
			<i>For &gt;100 To 200, Add</i>	0.75	
			<i>For &gt;200 To 500, Add</i>	0.30	
03 21	13 00-0153	LF	#6, Grade 60, Walls, Galvanized Steel Reinforcement Bar	2.55	
			<i>For Up To 100, Add</i>	2.04	
			<i>For &gt;100 To 200, Add</i>	1.06	
			<i>For &gt;200 To 500, Add</i>	0.43	
03 21	13 00-0154	LF	#7, Grade 60, Walls, Galvanized Steel Reinforcement Bar	3.35	
			<i>For Up To 100, Add</i>	2.10	
			<i>For &gt;100 To 200, Add</i>	1.18	
			<i>For &gt;200 To 400, Add</i>	0.57	
03 21	13 00-0155	LF	#8, Grade 60, Walls, Galvanized Steel Reinforcement Bar	4.25	
			<i>For Up To 100, Add</i>	2.70	
			<i>For &gt;100 To 200, Add</i>	1.52	
			<i>For &gt;200 To 400, Add</i>	0.73	
03 21	13 00-0156	LF	#9, Grade 60, Walls, Galvanized Steel Reinforcement Bar	5.30	
			<i>For Up To 100, Add</i>	3.40	
			<i>For &gt;100 To 200, Add</i>	1.90	
			<i>For &gt;200 To 400, Add</i>	0.92	
03 21	13 00-0157	LF	#10, Grade 60, Walls, Galvanized Steel Reinforcement Bar	6.55	
			<i>For Up To 100, Add</i>	3.43	
			<i>For &gt;100 To 200, Add</i>	1.80	
			<i>For &gt;200 To 300, Add</i>	0.90	
03 21	13 00-0158	LF	#11, Grade 60, Walls, Galvanized Steel Reinforcement Bar	7.90	
			<i>For Up To 100, Add</i>	4.17	
			<i>For &gt;100 To 200, Add</i>	2.18	
			<i>For &gt;200 To 300, Add</i>	1.09	
03 21	13 00-0159	LF	#14, Grade 60, Walls, Galvanized Steel Reinforcement Bar	11.10	
			<i>For Up To 100, Add</i>	5.93	
			<i>For &gt;100 To 200, Add</i>	3.09	
			<i>For &gt;200 To 300, Add</i>	1.54	
03 21	13 00-0160	LF	#18, Grade 60, Walls, Galvanized Steel Reinforcement Bar	19.25	
			<i>For Up To 100, Add</i>	10.39	
			<i>For &gt;100 To 200, Add</i>	5.39	
			<i>For &gt;200 To 300, Add</i>	2.69	
03 21	13 00-0161	LF	#6, Grade 75, Walls, Galvanized Steel Reinforcement Bar	2.63	
			<i>For Up To 100, Add</i>	2.12	
			<i>For &gt;100 To 200, Add</i>	1.10	
			<i>For &gt;200 To 500, Add</i>	0.44	
03 21	13 00-0162	LF	#7, Grade 75, Walls, Galvanized Steel Reinforcement Bar	3.46	
			<i>For Up To 100, Add</i>	2.18	
			<i>For &gt;100 To 200, Add</i>	1.23	
			<i>For &gt;200 To 400, Add</i>	0.59	
03 21	13 00-0163	LF	#8, Grade 75, Walls, Galvanized Steel Reinforcement Bar	4.39	
			<i>For Up To 100, Add</i>	2.80	
			<i>For &gt;100 To 200, Add</i>	1.57	
			<i>For &gt;200 To 400, Add</i>	0.76	
03 21	13 00-0164	LF	#9, Grade 75, Walls, Galvanized Steel Reinforcement Bar	5.47	
			<i>For Up To 100, Add</i>	3.52	
			<i>For &gt;100 To 200, Add</i>	1.97	
			<i>For &gt;200 To 400, Add</i>	0.95	





<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0165 LF #10, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	6.77	
<i>For Up To 100, Add</i>	3.56	
<i>For &gt;100 To 200, Add</i>	1.86	
<i>For &gt;200 To 300, Add</i>	0.93	
03 21 13 00-0166 LF #11, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	8.18	
<i>For Up To 100, Add</i>	4.34	
<i>For &gt;100 To 200, Add</i>	2.27	
<i>For &gt;200 To 300, Add</i>	1.13	
03 21 13 00-0167 LF #14, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	11.49	
<i>For Up To 100, Add</i>	6.16	
<i>For &gt;100 To 200, Add</i>	3.20	
<i>For &gt;200 To 300, Add</i>	1.60	
03 21 13 00-0168 LF #18, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	19.96	
<i>For Up To 100, Add</i>	10.82	
<i>For &gt;100 To 200, Add</i>	5.60	
<i>For &gt;200 To 300, Add</i>	2.80	

**03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)**

**03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)**

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002 LF #3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	0.80	
<i>For Up To 100, Add</i>	0.55	
<i>For &gt;100 To 200, Add</i>	0.30	
<i>For &gt;200 To 500, Add</i>	0.12	
03 21 16 00-0003 LF #4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	1.35	
<i>For Up To 100, Add</i>	0.94	
<i>For &gt;100 To 200, Add</i>	0.51	
<i>For &gt;200 To 500, Add</i>	0.20	
03 21 16 00-0004 LF #5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.04	
<i>For Up To 100, Add</i>	1.45	
<i>For &gt;100 To 200, Add</i>	0.77	
<i>For &gt;200 To 500, Add</i>	0.31	
03 21 16 00-0005 LF #6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.82	
<i>For Up To 100, Add</i>	2.03	
<i>For &gt;100 To 200, Add</i>	1.08	
<i>For &gt;200 To 500, Add</i>	0.43	
03 21 16 00-0006 LF #3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	0.81	
<i>For Up To 100, Add</i>	0.56	
<i>For &gt;100 To 200, Add</i>	0.30	
<i>For &gt;200 To 500, Add</i>	0.12	
03 21 16 00-0007 LF #4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	1.38	
<i>For Up To 100, Add</i>	0.97	
<i>For &gt;100 To 200, Add</i>	0.52	
<i>For &gt;200 To 500, Add</i>	0.21	
03 21 16 00-0008 LF #5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.08	
<i>For Up To 100, Add</i>	1.49	
<i>For &gt;100 To 200, Add</i>	0.79	
<i>For &gt;200 To 500, Add</i>	0.32	
03 21 16 00-0009 LF #6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.87	
<i>For Up To 100, Add</i>	2.08	
<i>For &gt;100 To 200, Add</i>	1.11	
<i>For &gt;200 To 500, Add</i>	0.44	
03 21 16 00-0010 LF #3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	0.83	
<i>For Up To 100, Add</i>	0.58	
<i>For &gt;100 To 200, Add</i>	0.31	
<i>For &gt;200 To 500, Add</i>	0.12	
03 21 16 00-0011 LF #4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	1.41	
<i>For Up To 100, Add</i>	1.00	
<i>For &gt;100 To 200, Add</i>	0.54	
<i>For &gt;200 To 500, Add</i>	0.21	
03 21 16 00-0012 LF #5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.13	
<i>For Up To 100, Add</i>	1.54	
<i>For &gt;100 To 200, Add</i>	0.82	
<i>For &gt;200 To 500, Add</i>	0.33	
03 21 16 00-0013 LF #6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.95	
<i>For Up To 100, Add</i>	2.16	
<i>For &gt;100 To 200, Add</i>	1.15	
<i>For &gt;200 To 500, Add</i>	0.46	
03 21 16 00-0014 LF #7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	3.84	
<i>For Up To 100, Add</i>	2.24	
<i>For &gt;100 To 200, Add</i>	1.29	
<i>For &gt;200 To 400, Add</i>	0.61	
03 21 16 00-0015 LF #8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	4.82	
<i>For Up To 100, Add</i>	2.86	
<i>For &gt;100 To 200, Add</i>	1.64	
<i>For &gt;200 To 400, Add</i>	0.77	
03 21 16 00-0016 LF #9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	5.94	
<i>For Up To 100, Add</i>	3.57	
<i>For &gt;100 To 200, Add</i>	2.04	
<i>For &gt;200 To 400, Add</i>	0.97	
03 21 16 00-0017 LF #10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	7.28	
<i>For Up To 100, Add</i>	3.59	
<i>For &gt;100 To 200, Add</i>	1.93	
<i>For &gt;200 To 300, Add</i>	0.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0018 LF #11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	8.70	
For Up To 100, Add	4.35	
For >100 To 200, Add	2.32	
For >200 To 300, Add	1.16	
03 21 16 00-0019 LF #14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	12.11	
For Up To 100, Add	6.14	
For >100 To 200, Add	3.26	
For >200 To 300, Add	1.63	
03 21 16 00-0020 LF #18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	20.80	
For Up To 100, Add	10.70	
For >100 To 200, Add	5.65	
For >200 To 300, Add	2.82	
03 21 16 00-0021 LF #6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	3.03	
For Up To 100, Add	2.24	
For >100 To 200, Add	1.19	
For >200 To 500, Add	0.48	
03 21 16 00-0022 LF #7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	3.95	
For Up To 100, Add	2.32	
For >100 To 200, Add	1.34	
For >200 To 400, Add	0.63	
03 21 16 00-0023 LF #8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	4.96	
For Up To 100, Add	2.96	
For >100 To 200, Add	1.70	
For >200 To 400, Add	0.80	
03 21 16 00-0024 LF #9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	6.11	
For Up To 100, Add	3.69	
For >100 To 200, Add	2.11	
For >200 To 400, Add	1.00	
03 21 16 00-0025 LF #10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	7.51	
For Up To 100, Add	3.73	
For >100 To 200, Add	2.00	
For >200 To 300, Add	1.00	
03 21 16 00-0026 LF #11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	8.97	
For Up To 100, Add	4.52	
For >100 To 200, Add	2.40	
For >200 To 300, Add	1.20	
03 21 16 00-0027 LF #14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	12.51	
For Up To 100, Add	6.38	
For >100 To 200, Add	3.38	
For >200 To 300, Add	1.69	
03 21 16 00-0028 LF #18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	21.50	
For Up To 100, Add	11.12	
For >100 To 200, Add	5.86	
For >200 To 300, Add	2.93	
<b>03 21 16 00-0029 Columns, Epoxy Coated Steel Reinforcement Bar</b> <small>(03 21 16)</small>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0030 LF #3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar .....	0.84	
For Up To 100, Add	0.56	
For >100 To 200, Add	0.31	
For >200 To 500, Add	0.12	
03 21 16 00-0031 LF #4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar .....	1.43	
For Up To 100, Add	0.97	
For >100 To 200, Add	0.53	
For >200 To 500, Add	0.21	
03 21 16 00-0032 LF #5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.13	
For Up To 100, Add	1.48	
For >100 To 200, Add	0.80	
For >200 To 500, Add	0.32	
03 21 16 00-0033 LF #6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.95	
For Up To 100, Add	2.09	
For >100 To 200, Add	1.12	
For >200 To 500, Add	0.45	
03 21 16 00-0034 LF #3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar .....	0.85	
For Up To 100, Add	0.57	
For >100 To 200, Add	0.31	
For >200 To 500, Add	0.12	
03 21 16 00-0035 LF #4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar .....	1.46	
For Up To 100, Add	1.00	
For >100 To 200, Add	0.54	
For >200 To 500, Add	0.22	
03 21 16 00-0036 LF #5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.17	
For Up To 100, Add	1.52	
For >100 To 200, Add	0.82	
For >200 To 500, Add	0.33	
03 21 16 00-0037 LF #6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar .....	3.00	
For Up To 100, Add	2.14	
For >100 To 200, Add	1.14	
For >200 To 500, Add	0.46	
03 21 16 00-0038 LF #3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	0.87	
For Up To 100, Add	0.59	
For >100 To 200, Add	0.32	
For >200 To 500, Add	0.13	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0039 LF #4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	1.49	
For Up To 100, Add	1.03	
For >100 To 200, Add	0.56	
For >200 To 500, Add	0.22	
03 21 16 00-0040 LF #5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.22	
For Up To 100, Add	1.57	
For >100 To 200, Add	0.84	
For >200 To 500, Add	0.34	
03 21 16 00-0041 LF #6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	3.08	
For Up To 100, Add	2.22	
For >100 To 200, Add	1.18	
For >200 To 500, Add	0.47	
03 21 16 00-0042 LF #7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	4.01	
For Up To 100, Add	2.30	
For >100 To 200, Add	1.34	
For >200 To 400, Add	0.62	
03 21 16 00-0043 LF #8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	5.00	
For Up To 100, Add	2.92	
For >100 To 200, Add	1.69	
For >200 To 400, Add	0.79	
03 21 16 00-0044 LF #9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	6.16	
For Up To 100, Add	3.64	
For >100 To 200, Add	2.10	
For >200 To 400, Add	0.99	
03 21 16 00-0045 LF #10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	7.53	
For Up To 100, Add	3.67	
For >100 To 200, Add	1.98	
For >200 To 300, Add	0.99	
03 21 16 00-0046 LF #11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	8.99	
For Up To 100, Add	4.44	
For >100 To 200, Add	2.38	
For >200 To 300, Add	1.19	
03 21 16 00-0047 LF #14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	12.49	
For Up To 100, Add	6.26	
For >100 To 200, Add	3.33	
For >200 To 300, Add	1.67	
03 21 16 00-0048 LF #18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	21.38	
For Up To 100, Add	10.88	
For >100 To 200, Add	5.76	
For >200 To 300, Add	2.88	
03 21 16 00-0049 LF #6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	3.16	
For Up To 100, Add	2.30	
For >100 To 200, Add	1.22	
For >200 To 500, Add	0.49	
03 21 16 00-0050 LF #7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	4.12	
For Up To 100, Add	2.38	
For >100 To 200, Add	1.38	
For >200 To 400, Add	0.65	
03 21 16 00-0051 LF #8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	5.14	
For Up To 100, Add	3.02	
For >100 To 200, Add	1.74	
For >200 To 400, Add	0.82	
03 21 16 00-0052 LF #9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	6.33	
For Up To 100, Add	3.77	
For >100 To 200, Add	2.17	
For >200 To 400, Add	1.02	
03 21 16 00-0053 LF #10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	7.76	
For Up To 100, Add	3.81	
For >100 To 200, Add	2.05	
For >200 To 300, Add	1.02	
03 21 16 00-0054 LF #11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	9.26	
For Up To 100, Add	4.60	
For >100 To 200, Add	2.46	
For >200 To 300, Add	1.23	
03 21 16 00-0055 LF #14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	12.89	
For Up To 100, Add	6.50	
For >100 To 200, Add	3.45	
For >200 To 300, Add	1.73	
03 21 16 00-0056 LF #18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	22.08	
For Up To 100, Add	11.30	
For >100 To 200, Add	5.97	
For >200 To 300, Add	2.99	
 03 21 16 00-0057 Footings, Epoxy Coated Steel Reinforcement Bar <small>(03 21 16)</small>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0058 LF #3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar .....	0.74	
For Up To 100, Add	0.52	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 16 00-0059 LF #4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar .....	1.26	
For Up To 100, Add	0.91	
For >100 To 200, Add	0.48	
For >200 To 500, Add	0.19	

<b>03</b>	<b>Concrete</b>
<b>03 20</b>	<b>Concrete Reinforcing</b>
<b>03 21</b>	<b>Reinforcement Bars</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0060	LF	#5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.90	
		For Up To 100, Add		1.39	
		For >100 To 200, Add		0.74	
		For >200 To 500, Add		0.30	
03 21 16 00-0061	LF	#6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.63	
		For Up To 100, Add		1.96	
		For >100 To 200, Add		1.04	
		For >200 To 500, Add		0.41	
03 21 16 00-0062	LF	#3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.75	
		For Up To 100, Add		0.53	
		For >100 To 200, Add		0.29	
		For >200 To 500, Add		0.11	
03 21 16 00-0063	LF	#4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.29	
03 21 16 00-0064	LF	#5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.94	
		For Up To 100, Add		1.43	
		For >100 To 200, Add		0.76	
		For >200 To 500, Add		0.30	
03 21 16 00-0065	LF	#6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.68	
		For Up To 100, Add		2.01	
		For >100 To 200, Add		1.06	
		For >200 To 500, Add		0.42	
03 21 16 00-0066	LF	#3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	0.77	
		For Up To 100, Add		0.55	
		For >100 To 200, Add		0.30	
		For >200 To 500, Add		0.12	
03 21 16 00-0067	LF	#4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.32	
		For Up To 100, Add		0.97	
		For >100 To 200, Add		0.51	
		For >200 To 500, Add		0.21	
03 21 16 00-0068	LF	#5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	1.99	
		For Up To 100, Add		1.48	
		For >100 To 200, Add		0.78	
		For >200 To 500, Add		0.31	
03 21 16 00-0069	LF	#6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.76	
		For Up To 100, Add		2.09	
		For >100 To 200, Add		1.10	
		For >200 To 500, Add		0.44	
03 21 16 00-0070	LF	#7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.61	
		For Up To 100, Add		2.16	
		For >100 To 200, Add		1.24	
		For >200 To 400, Add		0.58	
03 21 16 00-0071	LF	#8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.53	
		For Up To 100, Add		2.75	
		For >100 To 200, Add		1.57	
		For >200 To 400, Add		0.75	
03 21 16 00-0072	LF	#9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	5.61	
		For Up To 100, Add		3.45	
		For >100 To 200, Add		1.96	
		For >200 To 400, Add		0.93	
03 21 16 00-0073	LF	#10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	6.89	
		For Up To 100, Add		3.48	
		For >100 To 200, Add		1.85	
		For >200 To 300, Add		0.92	
03 21 16 00-0074	LF	#11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	8.27	
		For Up To 100, Add		4.22	
		For >100 To 200, Add		2.24	
		For >200 To 300, Add		1.12	
03 21 16 00-0075	LF	#14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	11.55	
		For Up To 100, Add		5.97	
		For >100 To 200, Add		3.15	
		For >200 To 300, Add		1.57	
03 21 16 00-0076	LF	#18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar	.....	19.90	
		For Up To 100, Add		10.43	
		For >100 To 200, Add		5.47	
		For >200 To 300, Add		2.73	
03 21 16 00-0077	LF	#6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	2.84	
		For Up To 100, Add		2.17	
		For >100 To 200, Add		1.14	
		For >200 To 500, Add		0.46	
03 21 16 00-0078	LF	#7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	3.72	
		For Up To 100, Add		2.24	
		For >100 To 200, Add		1.28	
		For >200 To 400, Add		0.61	
03 21 16 00-0079	LF	#8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	4.67	
		For Up To 100, Add		2.86	
		For >100 To 200, Add		1.63	
		For >200 To 400, Add		0.77	
03 21 16 00-0080	LF	#9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	5.78	
		For Up To 100, Add		3.58	
		For >100 To 200, Add		2.03	
		For >200 To 400, Add		0.97	
03 21 16 00-0081	LF	#10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar	.....	7.12	
		For Up To 100, Add		3.62	
		For >100 To 200, Add		1.92	
		For >200 To 300, Add		0.96	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0082 LF #11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	8.54	
For Up To 100, Add	4.39	
For >100 To 200, Add	2.32	
For >200 To 300, Add	1.16	
03 21 16 00-0083 LF #14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	11.95	
For Up To 100, Add	6.21	
For >100 To 200, Add	3.27	
For >200 To 300, Add	1.63	
03 21 16 00-0084 LF #18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	20.60	
For Up To 100, Add	10.85	
For >100 To 200, Add	5.68	
For >200 To 300, Add	2.84	
<b>03 21 16 00-0085 Slab On Grade, Epoxy Coated Steel Reinforcement Bar (03 21 16)</b>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0086 LF #3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.72	
For Up To 100, Add	0.52	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 16 00-0087 LF #4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.22	
For Up To 100, Add	0.89	
For >100 To 200, Add	0.47	
For >200 To 500, Add	0.19	
03 21 16 00-0088 LF #5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.84	
For Up To 100, Add	1.37	
For >100 To 200, Add	0.72	
For >200 To 500, Add	0.29	
03 21 16 00-0089 LF #6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.55	
For Up To 100, Add	1.93	
For >100 To 200, Add	1.02	
For >200 To 500, Add	0.41	
03 21 16 00-0090 LF #3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.73	
For Up To 100, Add	0.53	
For >100 To 200, Add	0.28	
For >200 To 500, Add	0.11	
03 21 16 00-0091 LF #4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.25	
For Up To 100, Add	0.92	
For >100 To 200, Add	0.49	
For >200 To 500, Add	0.20	
03 21 16 00-0092 LF #5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.88	
For Up To 100, Add	1.41	
For >100 To 200, Add	0.74	
For >200 To 500, Add	0.30	
03 21 16 00-0093 LF #6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.60	
For Up To 100, Add	1.98	
For >100 To 200, Add	1.04	
For >200 To 500, Add	0.42	
03 21 16 00-0094 LF #3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.75	
For Up To 100, Add	0.55	
For >100 To 200, Add	0.29	
For >200 To 500, Add	0.12	
03 21 16 00-0095 LF #4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.28	
For Up To 100, Add	0.95	
For >100 To 200, Add	0.50	
For >200 To 500, Add	0.20	
03 21 16 00-0096 LF #5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.93	
For Up To 100, Add	1.46	
For >100 To 200, Add	0.77	
For >200 To 500, Add	0.31	
03 21 16 00-0097 LF #6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.68	
For Up To 100, Add	2.06	
For >100 To 200, Add	1.08	
For >200 To 500, Add	0.43	
03 21 16 00-0098 LF #7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.53	
For Up To 100, Add	2.13	
For >100 To 200, Add	1.22	
For >200 To 400, Add	0.58	
03 21 16 00-0099 LF #8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.44	
For Up To 100, Add	2.72	
For >100 To 200, Add	1.55	
For >200 To 400, Add	0.74	
03 21 16 00-0100 LF #9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.50	
For Up To 100, Add	3.41	
For >100 To 200, Add	1.93	
For >200 To 400, Add	0.92	
03 21 16 00-0101 LF #10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.76	
For Up To 100, Add	3.44	
For >100 To 200, Add	1.82	
For >200 To 300, Add	0.91	
03 21 16 00-0102 LF #11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.13	
For Up To 100, Add	4.18	
For >100 To 200, Add	2.21	
For >200 To 300, Add	1.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0103	LF		#14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	11.35	
			For Up To 100, Add	5.91	
			For >100 To 200, Add	3.11	
			For >200 To 300, Add	1.55	
03 21 16 00-0104	LF		#18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	19.61	
			For Up To 100, Add	10.34	
			For >100 To 200, Add	5.41	
			For >200 To 300, Add	2.70	
03 21 16 00-0105	LF		#6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.76	
			For Up To 100, Add	2.14	
			For >100 To 200, Add	1.12	
			For >200 To 500, Add	0.45	
03 21 16 00-0106	LF		#7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.64	
			For Up To 100, Add	2.21	
			For >100 To 200, Add	1.26	
			For >200 To 400, Add	0.60	
03 21 16 00-0107	LF		#8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.58	
			For Up To 100, Add	2.83	
			For >100 To 200, Add	1.60	
			For >200 To 400, Add	0.76	
03 21 16 00-0108	LF		#9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.67	
			For Up To 100, Add	3.54	
			For >100 To 200, Add	2.00	
			For >200 To 400, Add	0.96	
03 21 16 00-0109	LF		#10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.99	
			For Up To 100, Add	3.58	
			For >100 To 200, Add	1.89	
			For >200 To 300, Add	0.95	
03 21 16 00-0110	LF		#11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.40	
			For Up To 100, Add	4.34	
			For >100 To 200, Add	2.29	
			For >200 To 300, Add	1.14	
03 21 16 00-0111	LF		#14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	11.75	
			For Up To 100, Add	6.15	
			For >100 To 200, Add	3.23	
			For >200 To 300, Add	1.61	
03 21 16 00-0112	LF		#18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	20.31	
			For Up To 100, Add	10.76	
			For >100 To 200, Add	5.62	
			For >200 To 300, Add	2.81	
03 21 16 00-0113			<b>Elevated Slabs, Epoxy Coated Steel Reinforcement Bar</b> (03 21 16)		
			Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0114	LF		#3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.67	
			For Up To 100, Add	0.50	
			For >100 To 200, Add	0.26	
			For >200 To 500, Add	0.11	
03 21 16 00-0115	LF		#4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.15	
			For Up To 100, Add	0.86	
			For >100 To 200, Add	0.46	
			For >200 To 500, Add	0.18	
03 21 16 00-0116	LF		#5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.74	
			For Up To 100, Add	1.33	
			For >100 To 200, Add	0.70	
			For >200 To 500, Add	0.28	
03 21 16 00-0117	LF		#6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.42	
			For Up To 100, Add	1.87	
			For >100 To 200, Add	0.98	
			For >200 To 500, Add	0.39	
03 21 16 00-0118	LF		#3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.68	
			For Up To 100, Add	0.51	
			For >100 To 200, Add	0.27	
			For >200 To 500, Add	0.11	
03 21 16 00-0119	LF		#4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.18	
			For Up To 100, Add	0.89	
			For >100 To 200, Add	0.47	
			For >200 To 500, Add	0.19	
03 21 16 00-0120	LF		#5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.78	
			For Up To 100, Add	1.37	
			For >100 To 200, Add	0.72	
			For >200 To 500, Add	0.29	
03 21 16 00-0121	LF		#6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.47	
			For Up To 100, Add	1.92	
			For >100 To 200, Add	1.01	
			For >200 To 500, Add	0.40	
03 21 16 00-0122	LF		#3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.70	
			For Up To 100, Add	0.53	
			For >100 To 200, Add	0.28	
			For >200 To 500, Add	0.11	
03 21 16 00-0123	LF		#4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.21	
			For Up To 100, Add	0.92	
			For >100 To 200, Add	0.49	
			For >200 To 500, Add	0.19	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0124 LF #5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.83	
For Up To 100, Add	1.42	
For >100 To 200, Add	0.74	
For >200 To 500, Add	0.30	
03 21 16 00-0125 LF #6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.55	
For Up To 100, Add	2.00	
For >100 To 200, Add	1.05	
For >200 To 500, Add	0.42	
03 21 16 00-0126 LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.37	
For Up To 100, Add	2.07	
For >100 To 200, Add	1.18	
For >200 To 400, Add	0.56	
03 21 16 00-0127 LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.24	
For Up To 100, Add	2.65	
For >100 To 200, Add	1.50	
For >200 To 400, Add	0.72	
03 21 16 00-0128 LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.28	
For Up To 100, Add	3.34	
For >100 To 200, Add	1.88	
For >200 To 400, Add	0.90	
03 21 16 00-0129 LF #10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.51	
For Up To 100, Add	3.36	
For >100 To 200, Add	1.77	
For >200 To 300, Add	0.89	
03 21 16 00-0130 LF #11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.84	
For Up To 100, Add	4.10	
For >100 To 200, Add	2.15	
For >200 To 300, Add	1.07	
03 21 16 00-0131 LF #14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	10.98	
For Up To 100, Add	5.80	
For >100 To 200, Add	3.03	
For >200 To 300, Add	1.52	
03 21 16 00-0132 LF #18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	19.02	
For Up To 100, Add	10.17	
For >100 To 200, Add	5.29	
For >200 To 300, Add	2.65	
03 21 16 00-0133 LF #6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.63	
For Up To 100, Add	2.08	
For >100 To 200, Add	1.09	
For >200 To 500, Add	0.44	
03 21 16 00-0134 LF #7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.48	
For Up To 100, Add	2.15	
For >100 To 200, Add	1.22	
For >200 To 400, Add	0.58	
03 21 16 00-0135 LF #8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.38	
For Up To 100, Add	2.76	
For >100 To 200, Add	1.55	
For >200 To 400, Add	0.74	
03 21 16 00-0136 LF #9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.45	
For Up To 100, Add	3.46	
For >100 To 200, Add	1.95	
For >200 To 400, Add	0.93	
03 21 16 00-0137 LF #10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	6.74	
For Up To 100, Add	3.50	
For >100 To 200, Add	1.84	
For >200 To 300, Add	0.92	
03 21 16 00-0138 LF #11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.11	
For Up To 100, Add	4.26	
For >100 To 200, Add	2.23	
For >200 To 300, Add	1.12	
03 21 16 00-0139 LF #14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	11.38	
For Up To 100, Add	6.04	
For >100 To 200, Add	3.15	
For >200 To 300, Add	1.58	
03 21 16 00-0140 LF #18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	19.72	
For Up To 100, Add	10.59	
For >100 To 200, Add	5.50	
For >200 To 300, Add	2.75	
<b>03 21 16 00-0141 Walls, Epoxy Coated Steel Reinforcement Bar</b> <small>(03 21 16)</small>		
Note: ASTM A-775 Epoxy Coated Steel.		
03 21 16 00-0142 LF #3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.65	
For Up To 100, Add	0.49	
For >100 To 200, Add	0.26	
For >200 To 500, Add	0.10	
03 21 16 00-0143 LF #4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.11	
For Up To 100, Add	0.85	
For >100 To 200, Add	0.45	
For >200 To 500, Add	0.18	
03 21 16 00-0144 LF #5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.69	
For Up To 100, Add	1.31	
For >100 To 200, Add	0.69	
For >200 To 500, Add	0.27	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar	.....	2.36	
		<i>For Up To 100, Add</i>		1.85	
		<i>For &gt;100 To 200, Add</i>		0.97	
		<i>For &gt;200 To 500, Add</i>		0.39	
03 21 16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	.....	0.66	
		<i>For Up To 100, Add</i>		0.50	
		<i>For &gt;100 To 200, Add</i>		0.26	
		<i>For &gt;200 To 500, Add</i>		0.11	
03 21 16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	.....	1.14	
		<i>For Up To 100, Add</i>		0.88	
		<i>For &gt;100 To 200, Add</i>		0.46	
		<i>For &gt;200 To 500, Add</i>		0.18	
03 21 16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	.....	1.73	
		<i>For Up To 100, Add</i>		1.35	
		<i>For &gt;100 To 200, Add</i>		0.71	
		<i>For &gt;200 To 500, Add</i>		0.28	
03 21 16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar	.....	2.41	
		<i>For Up To 100, Add</i>		1.90	
		<i>For &gt;100 To 200, Add</i>		0.99	
		<i>For &gt;200 To 500, Add</i>		0.40	
03 21 16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	0.68	
		<i>For Up To 100, Add</i>		0.52	
		<i>For &gt;100 To 200, Add</i>		0.27	
		<i>For &gt;200 To 500, Add</i>		0.11	
03 21 16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	1.17	
		<i>For Up To 100, Add</i>		0.91	
		<i>For &gt;100 To 200, Add</i>		0.48	
		<i>For &gt;200 To 500, Add</i>		0.19	
03 21 16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	1.78	
		<i>For Up To 100, Add</i>		1.40	
		<i>For &gt;100 To 200, Add</i>		0.73	
		<i>For &gt;200 To 500, Add</i>		0.29	
03 21 16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	2.49	
		<i>For Up To 100, Add</i>		1.98	
		<i>For &gt;100 To 200, Add</i>		1.03	
		<i>For &gt;200 To 500, Add</i>		0.41	
03 21 16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	3.27	
		<i>For Up To 100, Add</i>		2.04	
		<i>For &gt;100 To 200, Add</i>		1.15	
		<i>For &gt;200 To 400, Add</i>		0.55	
03 21 16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	4.15	
		<i>For Up To 100, Add</i>		2.62	
		<i>For &gt;100 To 200, Add</i>		1.48	
		<i>For &gt;200 To 400, Add</i>		0.71	
03 21 16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	5.17	
		<i>For Up To 100, Add</i>		3.30	
		<i>For &gt;100 To 200, Add</i>		1.85	
		<i>For &gt;200 To 400, Add</i>		0.89	
03 21 16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	6.38	
		<i>For Up To 100, Add</i>		3.32	
		<i>For &gt;100 To 200, Add</i>		1.75	
		<i>For &gt;200 To 300, Add</i>		0.87	
03 21 16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	7.70	
		<i>For Up To 100, Add</i>		4.05	
		<i>For &gt;100 To 200, Add</i>		2.12	
		<i>For &gt;200 To 300, Add</i>		1.06	
03 21 16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	10.80	
		<i>For Up To 100, Add</i>		5.75	
		<i>For &gt;100 To 200, Add</i>		3.00	
		<i>For &gt;200 To 300, Add</i>		1.50	
03 21 16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar	.....	18.73	
		<i>For Up To 100, Add</i>		10.08	
		<i>For &gt;100 To 200, Add</i>		5.23	
		<i>For &gt;200 To 300, Add</i>		2.62	
03 21 16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	2.57	
		<i>For Up To 100, Add</i>		2.06	
		<i>For &gt;100 To 200, Add</i>		1.07	
		<i>For &gt;200 To 500, Add</i>		0.43	
03 21 16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	3.38	
		<i>For Up To 100, Add</i>		2.12	
		<i>For &gt;100 To 200, Add</i>		1.20	
		<i>For &gt;200 To 400, Add</i>		0.57	
03 21 16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	4.29	
		<i>For Up To 100, Add</i>		2.73	
		<i>For &gt;100 To 200, Add</i>		1.53	
		<i>For &gt;200 To 400, Add</i>		0.74	
03 21 16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	5.34	
		<i>For Up To 100, Add</i>		3.43	
		<i>For &gt;100 To 200, Add</i>		1.92	
		<i>For &gt;200 To 400, Add</i>		0.92	
03 21 16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar	.....	6.61	
		<i>For Up To 100, Add</i>		3.46	
		<i>For &gt;100 To 200, Add</i>		1.82	
		<i>For &gt;200 To 300, Add</i>		0.91	





<b>Concrete</b>	<b>03</b>	<b>CS</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 16 00-0166 LF #11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.97	
For Up To 100, Add	4.22	
For >100 To 200, Add	2.20	
For >200 To 300, Add	1.10	
03 21 16 00-0167 LF #14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	11.20	
For Up To 100, Add	5.99	
For >100 To 200, Add	3.12	
For >200 To 300, Add	1.56	
03 21 16 00-0168 LF #18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	19.43	
For Up To 100, Add	10.50	
For >100 To 200, Add	5.44	
For >200 To 300, Add	2.72	
<b>03 21 16 00-0169 Epoxy Coated Deformed Straight Dowels (03 21 16)</b>		
Note: Excludes drilling. See CSI section 02 41 19 13-0221 for drilling in concrete.		
03 21 16 00-0170 EA 3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.13	
For Up To 12" Length, Deduct	-0.48	
For >12" To <24" Length, Deduct	-0.24	
03 21 16 00-0171 EA 1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	6.01	
For Up To 12" Length, Deduct	-0.72	
For >12" To <24" Length, Deduct	-0.36	
03 21 16 00-0172 EA 5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.40	
For Up To 12" Length, Deduct	-1.08	
For >12" To <24" Length, Deduct	-0.54	
03 21 16 00-0173 EA 3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	9.18	
For Up To 12" Length, Deduct	-1.44	
For >12" To <24" Length, Deduct	-0.72	
03 21 16 00-0174 EA 7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	10.98	
For Up To 12" Length, Deduct	-1.95	
For >12" To <24" Length, Deduct	-0.98	
03 21 16 00-0175 EA 1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	12.74	
For Up To 12" Length, Deduct	-2.40	
For >12" To <24" Length, Deduct	-1.20	
03 21 16 00-0176 EA 1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	15.02	
For Up To 12" Length, Deduct	-2.91	
For >12" To <24" Length, Deduct	-1.45	
03 21 16 00-0177 EA 1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	18.09	
For Up To 12" Length, Deduct	-3.52	
For >12" To <24" Length, Deduct	-1.76	

**03 22 Fabric and Grid Reinforcing (03 20)**

**03 22 11 Plain Steel Welded Wire Fabric Reinforcing (03 22)**

Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.

**03 22 11 00-0001 Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 11)**

Note: Includes bar chairs. Under 5 tons. ASTM A-185

03 22 11 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.98	
For >5 Ton, Deduct	-0.14	
03 22 11 00-0003 SF 6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.13	
For >5 Ton, Deduct	-0.16	
03 22 11 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.31	
For >5 Ton, Deduct	-0.18	
03 22 11 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.58	
For >5 Ton, Deduct	-0.21	
03 22 11 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.20	
For >5 Ton, Deduct	-0.17	
03 22 11 00-0007 SF 4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.37	
For >5 Ton, Deduct	-0.19	
03 22 11 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.80	
For >5 Ton, Deduct	-0.24	
03 22 11 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	2.13	
For >5 Ton, Deduct	-0.27	
03 22 11 00-0010 SF 2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9).....	2.04	
For >5 Ton, Deduct	-0.25	

**03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)**

**03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)**

Note: Includes bar chairs. Under 5 tons.

03 22 13 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.12	
For >5 Ton, Deduct	-0.16	
03 22 13 00-0003 SF 6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.30	
For >5 Ton, Deduct	-0.18	
03 22 13 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....	1.53	
For >5 Ton, Deduct	-0.21	
03 22 13 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....	1.90	
For >5 Ton, Deduct	-0.25	
03 22 13 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	1.40	
For >5 Ton, Deduct	-0.19	
03 22 13 00-0007 SF 4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....	1.62	
For >5 Ton, Deduct	-0.21	

<b>03</b>	<b>Concrete</b>
<b>03 20</b>	<b>Concrete Reinforcing</b>
<b>03 22</b>	<b>Fabric and Grid Reinforcing</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 13 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....2.20 <i>For &gt;5 Ton, Deduct</i>	-0.28	
03 22 13 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....2.63 <i>For &gt;5 Ton, Deduct</i>	-0.32	
<b>03 22 13 00-0010</b>			<b>Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns</b> <small>(03 22 13)</small>		
			Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0011	SF		2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5).....3.71 <i>For &gt;5 Ton, Deduct</i>	-0.56	
<b>03 22 16</b>			<b>Epoxy-Coated Welded Wire Fabric Reinforcing</b> <small>(03 22)</small>		
<b>03 22 16 00-0001</b>			<b>Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs</b> <small>(03 22 16)</small>		
			Note: Includes bar chairs. Under 5 tons.		
03 22 16 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....1.11 <i>For &gt;5 Ton, Deduct</i>	-0.15	
03 22 16 00-0003	SF		6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....1.28 <i>For &gt;5 Ton, Deduct</i>	-0.18	
03 22 16 00-0004	SF		6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....1.51 <i>For &gt;5 Ton, Deduct</i>	-0.20	
03 22 16 00-0005	SF		6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....1.86 <i>For &gt;5 Ton, Deduct</i>	-0.24	
03 22 16 00-0006	SF		4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....1.37 <i>For &gt;5 Ton, Deduct</i>	-0.19	
03 22 16 00-0007	SF		4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1).....1.59 <i>For &gt;5 Ton, Deduct</i>	-0.21	
03 22 16 00-0008	SF		4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9).....2.15 <i>For &gt;5 Ton, Deduct</i>	-0.27	
03 22 16 00-0009	SF		4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0).....2.56 <i>For &gt;5 Ton, Deduct</i>	-0.32	
<b>03 22 23</b>			<b>Stainless Steel Welded Wire Fabric Reinforcing</b> <small>(03 22)</small>		
			Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.		
<b>03 22 23 00-0001</b>			<b>Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs</b> <small>(03 22 23)</small>		
03 22 23 00-0002	SF		6" x 6" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs .....2.06		
03 22 23 00-0003	SF		4" x 4" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs .....2.69		
<b>03 30</b>			<b>Cast-In-Place Concrete</b> <small>(03)</small>		
			See CSI section 01 74 19 00-0039 for hauling over 15 miles.		
<b>03 30 53</b>			<b>Miscellaneous Cast-in-Place Concrete</b> <small>(03 30)</small>		
<b>03 30 53 00-0001</b>			<b>Place Concrete Duct Bank</b> <small>(03 30 53)</small>		
03 30 53 00-0002	CY		Direct Chute, Place 3,000 PSI Concrete Duct Bank .....265.37 <i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
			<i>For 3,500 PSI Concrete, Add</i>	11.60	
			<i>For 3,750 PSI Concrete, Add</i>	15.78	
			<i>For 4,000 PSI Concrete, Add</i>	19.95	
			<i>For 4,500 PSI Concrete, Add</i>	23.20	
			<i>For 5,000 PSI Concrete, Add</i>	26.45	
			<i>For 6,000 PSI Concrete, Add</i>	62.64	
			<i>For White Cement Concrete, Add</i>	27.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
			<i>For Up To 20, Add</i>	13.35	
			<i>For &gt;20 To 50, Add</i>	5.01	
			<i>For &gt;100 To 200, Deduct</i>	-5.31	
			<i>For &gt;200 To 400, Deduct</i>	-10.61	
			<i>For &gt;400, Deduct</i>	-15.92	
<b>03 30 53 00-0003</b>			<b>Place Concrete Thrust Blocks And Backfill</b> <small>(03 30 53)</small>		



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Cast-In-Place Concrete</b>	<b>03 30</b>	
<b>Miscellaneous Cast-in-Place Concrete</b>	<b>03 30 53</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 30 53 00-0004 CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks .....	307.37	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	30.15	
For >20 To 50, Add	11.31	
For >100 To 200, Deduct	-6.15	
For >200 To 400, Deduct	-12.29	
For >400, Deduct	-18.44	
<b>03 30 53 00-0005 Place Concrete Slurry (03 30 53)</b>		
03 30 53 00-0006 CY Direct Chute, Place Two Sack Cement, Concrete Slurry .....	242.90	
Note: Two 94# sack cement per CY.		
03 30 53 00-0007 CY Concrete Pump, Place Two Sack Cement, Concrete Slurry .....	236.25	
Note: Two 94# sack cement per CY. Excludes pumping equipment.		
<b>03 30 53 00-0008 Hand Mix And Place Concrete (03 30 53)</b>		
03 30 53 00-0009 CF Hand Mix And Place 3,000 PSI Concrete .....	22.43	
Note: For use where conventional equipment access is limited or when directed by the owner. Includes local aggregate, sand, bagged cement (Type I) and water.		
For Up To 25 CF, Add	2.74	
For 2,000 PSI Concrete, Deduct	-0.54	
For 2,500 PSI Concrete, Deduct	-0.27	
For 3,500 PSI Concrete, Add	0.50	
For 3,750 PSI Concrete, Add	0.67	
For 4,000 PSI Concrete, Add	0.85	
For 4,500 PSI Concrete, Add	0.99	
For 5,000 PSI Concrete, Add	1.13	
For 6,000 PSI Concrete, Add	2.68	
For White Cement Concrete, Add	1.19	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	1.29	
For High Early Strength, Type 3 ASTM C150, Add	0.99	
For Lightweight Aggregate, ASTM C330, Add	3.47	
<b>03 31 Structural Concrete (03 30)</b>		
<b>03 31 13 Heavyweight Structural Concrete (03 31)</b>		
Note: Includes delivery, fuel charge and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 13 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 31 13 00-00086 for small concrete purchases (short load), 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.		
03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)		
03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)		
Note: Includes forms, welded wire reinforcement (where necessary), #3 to #6 reinforcing rods at 12" on center each way with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 13 00-0001 for color additive alternative, 03 37 16 00-0001 for concrete pumping equipment.		
03 31 13 00-0003 SF 4" 3,000 PSI Slab On Grade Concrete Slab Assembly .....	9.44	
For 2,000 PSI Concrete, Deduct	-0.30	
For 2,500 PSI Concrete, Deduct	-0.15	
For 3,500 PSI Concrete, Add	0.11	
For 4,000 PSI Concrete, Add	0.35	
For 4,500 PSI Concrete, Add	0.44	
For 5,000 PSI Concrete, Add	0.51	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
For Up To 500, Add	3.41	
For >500 To 1,000, Add	2.37	
For >1,000 To 2,000, Add	1.33	
For >2,000 To 5,000, Add	0.66	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000 To 35,000, Deduct	-0.52	
For >35,000 To 50,000, Deduct	-0.75	
For >50,000 To 70,000, Deduct	-0.99	
For >70,000, Deduct	-1.23	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0004	SF		5" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	10.39	
			For 2,000 PSI Concrete, Deduct	-0.35	
			For 2,500 PSI Concrete, Deduct	-0.17	
			For 3,500 PSI Concrete, Add	0.12	
			For 4,000 PSI Concrete, Add	0.40	
			For 4,500 PSI Concrete, Add	0.51	
			For 5,000 PSI Concrete, Add	0.58	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
			For Up To 500, Add	3.67	
			For >500 To 1,000, Add	2.56	
			For >1,000 To 2,000, Add	1.44	
			For >2,000 To 5,000, Add	0.72	
			For >10,000 To 20,000, Deduct	-0.32	
			For >20,000 To 35,000, Deduct	-0.58	
			For >35,000 To 50,000, Deduct	-0.84	
			For >50,000 To 70,000, Deduct	-1.10	
			For >70,000, Deduct	-1.36	
03 31 13 00-0005	SF		6" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	11.73	
			For 2,000 PSI Concrete, Deduct	-0.40	
			For 2,500 PSI Concrete, Deduct	-0.20	
			For 3,500 PSI Concrete, Add	0.14	
			For 4,000 PSI Concrete, Add	0.47	
			For 4,500 PSI Concrete, Add	0.59	
			For 5,000 PSI Concrete, Add	0.68	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
			For Up To 500, Add	4.05	
			For >500 To 1,000, Add	2.82	
			For >1,000 To 2,000, Add	1.60	
			For >2,000 To 5,000, Add	0.80	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000 To 35,000, Deduct	-0.67	
			For >35,000 To 50,000, Deduct	-0.96	
			For >50,000 To 70,000, Deduct	-1.25	
			For >70,000, Deduct	-1.55	
03 31 13 00-0006	SF		7" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	13.03	
			For 2,000 PSI Concrete, Deduct	-0.46	
			For 2,500 PSI Concrete, Deduct	-0.23	
			For 3,500 PSI Concrete, Add	0.16	
			For 4,000 PSI Concrete, Add	0.54	
			For 4,500 PSI Concrete, Add	0.68	
			For 5,000 PSI Concrete, Add	0.78	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
			For Up To 500, Add	4.38	
			For >500 To 1,000, Add	3.06	
			For >1,000 To 2,000, Add	1.75	
			For >2,000 To 5,000, Add	0.87	
			For >10,000 To 20,000, Deduct	-0.43	
			For >20,000 To 35,000, Deduct	-0.76	
			For >35,000 To 50,000, Deduct	-1.08	
			For >50,000 To 70,000, Deduct	-1.41	
			For >70,000, Deduct	-1.73	
03 31 13 00-0007	SF		8" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	14.13	
			For 2,000 PSI Concrete, Deduct	-0.51	
			For 2,500 PSI Concrete, Deduct	-0.26	
			For 3,500 PSI Concrete, Add	0.18	
			For 4,000 PSI Concrete, Add	0.60	
			For 4,500 PSI Concrete, Add	0.75	
			For 5,000 PSI Concrete, Add	0.87	
			For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
			For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
			For Up To 500, Add	4.67	
			For >500 To 1,000, Add	3.27	
			For >1,000 To 2,000, Add	1.87	
			For >2,000 To 5,000, Add	0.94	
			For >10,000 To 20,000, Deduct	-0.48	
			For >20,000 To 35,000, Deduct	-0.83	
			For >35,000 To 50,000, Deduct	-1.18	
			For >50,000 To 70,000, Deduct	-1.54	
			For >70,000, Deduct	-1.89	



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0008 SF 10" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	16.99	
For 2,000 PSI Concrete, Deduct	-0.65	
For 2,500 PSI Concrete, Deduct	-0.32	
For 3,500 PSI Concrete, Add	0.23	
For 4,000 PSI Concrete, Add	0.76	
For 4,500 PSI Concrete, Add	0.95	
For 5,000 PSI Concrete, Add	1.09	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
For Up To 500, Add	5.38	
For >500 To 1,000, Add	3.79	
For >1,000 To 2,000, Add	2.20	
For >2,000 To 5,000, Add	1.10	
For >10,000 To 20,000, Deduct	-0.60	
For >20,000 To 35,000, Deduct	-1.03	
For >35,000 To 50,000, Deduct	-1.45	
For >50,000 To 70,000, Deduct	-1.88	
For >70,000, Deduct	-2.30	
03 31 13 00-0009 SF 12" 3,000 PSI Slab On Grade Concrete Slab Assembly.....	19.18	
For 2,000 PSI Concrete, Deduct	-0.75	
For 2,500 PSI Concrete, Deduct	-0.37	
For 3,500 PSI Concrete, Add	0.26	
For 4,000 PSI Concrete, Add	0.87	
For 4,500 PSI Concrete, Add	1.09	
For 5,000 PSI Concrete, Add	1.26	
For Reinforcing Rods Are At 18" On Center, Deduct	-0.40	
For Reinforcing Rods Are At 24" On Center, Deduct	-0.59	
For Up To 500, Add	5.96	
For >500 To 1,000, Add	4.21	
For >1,000 To 2,000, Add	2.45	
For >2,000 To 5,000, Add	1.23	
For >10,000 To 20,000, Deduct	-0.69	
For >20,000 To 35,000, Deduct	-1.17	
For >35,000 To 50,000, Deduct	-1.65	
For >50,000 To 70,000, Deduct	-2.13	
For >70,000, Deduct	-2.61	
<b>03 31 13 00-0010 Concrete Delivery And Placement</b> <small>(03 31 13)</small>		
Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 13 00-0001 for admixtures.		
<b>03 31 13 00-0011 Place Concrete By Method Indicated</b> <small>(03 31 13 00-0010)</small>		
Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 37 16 00-0001 for concrete pumping equipment.		
<b>03 31 13 00-0012 Place Concrete Pile Caps</b> <small>(03 31 13 00-0011)</small>		
03 31 13 00-0013 CY Crane And Bucket, Place 3,000 PSI Concrete Pile Caps .....	358.65	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	50.66	
For >20 To 50, Add	19.00	
For >100 To 200, Deduct	-7.17	
For >200 To 400, Deduct	-14.35	
For >400, Deduct	-21.52	
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps .....	287.42	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	22.17	
For >20 To 50, Add	8.31	
For >100 To 200, Deduct	-5.75	
For >200 To 400, Deduct	-11.50	
For >400, Deduct	-17.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0015	CY	Concrete Pump, Place 3,000 PSI Concrete Pile Caps.....	304.11	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	21.11	
			For >20 To 50, Add	7.92	
			For >100 To 200, Deduct	-6.08	
			For >200 To 400, Deduct	-12.16	
			For >400, Deduct	-18.25	
03 31	13 00-0016		Place Concrete Continuous Footings (03 31 13 00-0011)		
03 31	13 00-0017	CY	Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	344.58	
			For 2,000 PSI Concrete, Deduct	-12.53	
			For 2,500 PSI Concrete, Deduct	-6.26	
			For 3,500 PSI Concrete, Add	11.60	
			For 3,750 PSI Concrete, Add	15.78	
			For 4,000 PSI Concrete, Add	19.95	
			For 4,500 PSI Concrete, Add	23.20	
			For 5,000 PSI Concrete, Add	26.45	
			For 6,000 PSI Concrete, Add	62.64	
			For White Cement Concrete, Add	27.84	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
			For High Early Strength, Type 3 ASTM C150, Add	23.20	
			For Lightweight Aggregate, ASTM C330, Add	81.20	
			For Up To 20, Add	45.03	
			For >20 To 50, Add	16.89	
			For >100 To 200, Deduct	-6.89	
			For >200 To 400, Deduct	-13.78	
			For >400, Deduct	-20.67	
03 31	13 00-0018	CY	Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	281.25	
			For 2,000 PSI Concrete, Deduct	-12.53	
			For 2,500 PSI Concrete, Deduct	-6.26	
			For 3,500 PSI Concrete, Add	11.60	
			For 3,750 PSI Concrete, Add	15.78	
			For 4,000 PSI Concrete, Add	19.95	
			For 4,500 PSI Concrete, Add	23.20	
			For 5,000 PSI Concrete, Add	26.45	
			For 6,000 PSI Concrete, Add	62.64	
			For White Cement Concrete, Add	27.84	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
			For High Early Strength, Type 3 ASTM C150, Add	23.20	
			For Lightweight Aggregate, ASTM C330, Add	81.20	
			For Up To 20, Add	19.70	
			For >20 To 50, Add	7.39	
			For >100 To 200, Deduct	-5.63	
			For >200 To 400, Deduct	-11.25	
			For >400, Deduct	-16.88	
03 31	13 00-0019	CY	Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	298.24	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	18.76	
			For >20 To 50, Add	7.04	
			For >100 To 200, Deduct	-5.96	
			For >200 To 400, Deduct	-11.93	
			For >400, Deduct	-17.89	
03 31	13 00-0020		Place Concrete Spread Footings (03 31 13 00-0011)		



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0021 CY Crane And Bucket, Place 3,000 PSI Concrete Spread Footings .....	421.97	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	75.99	
For >20 To 50, Add	28.50	
For >100 To 200, Deduct	-8.44	
For >200 To 400, Deduct	-16.88	
For >400, Deduct	-25.32	
03 31 13 00-0022 CY Direct Chute, Place 3,000 PSI Concrete Spread Footings .....	315.11	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	33.25	
For >20 To 50, Add	12.47	
For >100 To 200, Deduct	-6.30	
For >200 To 400, Deduct	-12.60	
For >400, Deduct	-18.91	
03 31 13 00-0023 CY Concrete Pump, Place 3,000 PSI Concrete Spread Footings .....	330.50	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	31.67	
For >20 To 50, Add	11.88	
For >100 To 200, Deduct	-6.61	
For >200 To 400, Deduct	-13.22	
For >400, Deduct	-19.83	
<b>03 31 13 00-0024 Place Concrete Mat Foundation (03 31 13 00-0011)</b>		
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation .....	265.76	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	13.51	
For >20 To 50, Add	5.07	
For >100 To 200, Deduct	-5.32	
For >200 To 400, Deduct	-10.63	
For >400, Deduct	-15.95	

**03 Concrete****03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0026	CY		Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	246.77	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
			<i>For 3,500 PSI Concrete, Add</i>	11.60	
			<i>For 3,750 PSI Concrete, Add</i>	15.78	
			<i>For 4,000 PSI Concrete, Add</i>	19.95	
			<i>For 4,500 PSI Concrete, Add</i>	23.20	
			<i>For 5,000 PSI Concrete, Add</i>	26.45	
			<i>For 6,000 PSI Concrete, Add</i>	62.64	
			<i>For White Cement Concrete, Add</i>	27.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
			<i>For Up To 20, Add</i>	5.91	
			<i>For &gt;20 To 50, Add</i>	2.22	
			<i>For &gt;100 To 200, Deduct</i>	-4.94	
			<i>For &gt;200 To 400, Deduct</i>	-9.87	
			<i>For &gt;400, Deduct</i>	-14.81	
03 31 13 00-0027	CY		Concrete Pump, Place 3,000 PSI Concrete Mat Foundation .....	263.64	
			Note: Excludes pumping equipment.		
			<i>For 2,000 PSI Concrete, Deduct</i>	-13.57	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.79	
			<i>For 3,500 PSI Concrete, Add</i>	12.57	
			<i>For 3,750 PSI Concrete, Add</i>	17.09	
			<i>For 4,000 PSI Concrete, Add</i>	21.61	
			<i>For 4,500 PSI Concrete, Add</i>	25.13	
			<i>For 5,000 PSI Concrete, Add</i>	28.65	
			<i>For 6,000 PSI Concrete, Add</i>	67.86	
			<i>For White Cement Concrete, Add</i>	30.16	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	32.67	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	25.13	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	87.97	
			<i>For Up To 20, Add</i>	4.92	
			<i>For &gt;20 To 50, Add</i>	1.85	
			<i>For &gt;100 To 200, Deduct</i>	-5.27	
			<i>For &gt;200 To 400, Deduct</i>	-10.55	
			<i>For &gt;400, Deduct</i>	-15.82	
03 31 13 00-0028			Place Concrete Grade Beams <small>(03 31 13 00-0011)</small> .....	322.06	
03 31 13 00-0029	CY		Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	322.06	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
			<i>For 3,500 PSI Concrete, Add</i>	11.60	
			<i>For 3,750 PSI Concrete, Add</i>	15.78	
			<i>For 4,000 PSI Concrete, Add</i>	19.95	
			<i>For 4,500 PSI Concrete, Add</i>	23.20	
			<i>For 5,000 PSI Concrete, Add</i>	26.45	
			<i>For 6,000 PSI Concrete, Add</i>	62.64	
			<i>For White Cement Concrete, Add</i>	27.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
			<i>For Up To 20, Add</i>	36.02	
			<i>For &gt;20 To 50, Add</i>	13.51	
			<i>For &gt;100 To 200, Deduct</i>	-6.44	
			<i>For &gt;200 To 400, Deduct</i>	-12.88	
			<i>For &gt;400, Deduct</i>	-19.32	
03 31 13 00-0030	CY		Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	271.39	
			<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
			<i>For 3,500 PSI Concrete, Add</i>	11.60	
			<i>For 3,750 PSI Concrete, Add</i>	15.78	
			<i>For 4,000 PSI Concrete, Add</i>	19.95	
			<i>For 4,500 PSI Concrete, Add</i>	23.20	
			<i>For 5,000 PSI Concrete, Add</i>	26.45	
			<i>For 6,000 PSI Concrete, Add</i>	62.64	
			<i>For White Cement Concrete, Add</i>	27.84	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
			<i>For Up To 20, Add</i>	15.76	
			<i>For &gt;20 To 50, Add</i>	5.91	
			<i>For &gt;100 To 200, Deduct</i>	-5.43	
			<i>For &gt;200 To 400, Deduct</i>	-10.86	
			<i>For &gt;400, Deduct</i>	-16.28	





<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0031 CY Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	288.86	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	15.01	
For >20 To 50, Add	5.63	
For >100 To 200, Deduct	-5.78	
For >200 To 400, Deduct	-11.55	
For >400, Deduct	-17.33	
<b>03 31 13 00-0032 Place Concrete Slab On Grade</b> <small>(03 31 13 00-0011)</small>		
03 31 13 00-0033 CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	324.17	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	36.87	
For >20 To 50, Add	13.83	
For >100 To 200, Deduct	-6.48	
For >200 To 400, Deduct	-12.97	
For >400, Deduct	-19.45	
03 31 13 00-0034 CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade .....	301.93	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	27.98	
For >20 To 50, Add	10.49	
For >100 To 200, Deduct	-6.04	
For >200 To 400, Deduct	-12.08	
For >400, Deduct	-18.12	
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	272.32	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	16.13	
For >20 To 50, Add	6.05	
For >100 To 200, Deduct	-5.45	
For >200 To 400, Deduct	-10.89	
For >400, Deduct	-16.34	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0036	CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade .....	262.59	
	For 2,000 PSI Concrete, Deduct	-12.53	
	For 2,500 PSI Concrete, Deduct	-6.26	
	For 3,500 PSI Concrete, Add	11.60	
	For 3,750 PSI Concrete, Add	15.78	
	For 4,000 PSI Concrete, Add	19.95	
	For 4,500 PSI Concrete, Add	23.20	
	For 5,000 PSI Concrete, Add	26.45	
	For 6,000 PSI Concrete, Add	62.64	
	For White Cement Concrete, Add	27.84	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
	For High Early Strength, Type 3 ASTM C150, Add	23.20	
	For Lightweight Aggregate, ASTM C330, Add	81.20	
	For Up To 20, Add	12.24	
	For >20 To 50, Add	4.59	
	For >100 To 200, Deduct	-5.25	
	For >200 To 400, Deduct	-10.50	
	For >400, Deduct	-15.76	
03 31 13 00-0037	CY Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	284.94	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-13.57	
	For 2,500 PSI Concrete, Deduct	-6.79	
	For 3,500 PSI Concrete, Add	12.57	
	For 3,750 PSI Concrete, Add	17.09	
	For 4,000 PSI Concrete, Add	21.61	
	For 4,500 PSI Concrete, Add	25.13	
	For 5,000 PSI Concrete, Add	28.65	
	For 6,000 PSI Concrete, Add	67.86	
	For White Cement Concrete, Add	30.16	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
	For High Early Strength, Type 3 ASTM C150, Add	25.13	
	For Lightweight Aggregate, ASTM C330, Add	87.97	
	For Up To 20, Add	13.44	
	For >20 To 50, Add	5.04	
	For >100 To 200, Deduct	-5.70	
	For >200 To 400, Deduct	-11.40	
	For >400, Deduct	-17.10	
03 31 13 00-0038	CY >6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade .....	276.84	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-13.57	
	For 2,500 PSI Concrete, Deduct	-6.79	
	For 3,500 PSI Concrete, Add	12.57	
	For 3,750 PSI Concrete, Add	17.09	
	For 4,000 PSI Concrete, Add	21.61	
	For 4,500 PSI Concrete, Add	25.13	
	For 5,000 PSI Concrete, Add	28.65	
	For 6,000 PSI Concrete, Add	67.86	
	For White Cement Concrete, Add	30.16	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
	For High Early Strength, Type 3 ASTM C150, Add	25.13	
	For Lightweight Aggregate, ASTM C330, Add	87.97	
	For Up To 20, Add	10.20	
	For >20 To 50, Add	3.83	
	For >100 To 200, Deduct	-5.54	
	For >200 To 400, Deduct	-11.07	
	For >400, Deduct	-16.61	
03 31 13 00-0039	Place Concrete Stairs (03 31 13 00-0011)		
03 31 13 00-0040	CY Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs.....	646.74	
	For 2,000 PSI Concrete, Deduct	-12.53	
	For 2,500 PSI Concrete, Deduct	-6.26	
	For 3,500 PSI Concrete, Add	11.60	
	For 3,750 PSI Concrete, Add	15.78	
	For 4,000 PSI Concrete, Add	19.95	
	For 4,500 PSI Concrete, Add	23.20	
	For 5,000 PSI Concrete, Add	26.45	
	For 6,000 PSI Concrete, Add	62.64	
	For White Cement Concrete, Add	27.84	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
	For High Early Strength, Type 3 ASTM C150, Add	23.20	
	For Lightweight Aggregate, ASTM C330, Add	81.20	
	For Up To 20, Add	165.90	
	For >20 To 50, Add	62.21	
	For >100 To 200, Deduct	-12.93	
	For >200 To 400, Deduct	-25.87	
	For >400, Deduct	-38.80	



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0041 CY Direct Chute, Place 3,000 PSI On Grade Concrete Stairs.....	413.49	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	72.60	
For >20 To 50, Add	27.23	
For >100 To 200, Deduct	-8.27	
For >200 To 400, Deduct	-16.54	
For >400, Deduct	-24.81	
03 31 13 00-0042 CY Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs.....	402.60	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	60.51	
For >20 To 50, Add	22.69	
For >100 To 200, Deduct	-8.05	
For >200 To 400, Deduct	-16.10	
For >400, Deduct	-24.16	
<b>03 31 13 00-0043 Place Concrete Superstructure By Method Indicated (03 31 13 00-0010)</b>		
See CSI section 03 37 16 00-0001 for concrete pump truck.		
<b>03 31 13 00-0044 Place Elevated Concrete Beams (03 31 13 00-0043)</b>		
03 31 13 00-0045 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams .....	457.16	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	90.07	
For >20 To 50, Add	33.78	
For >100 To 200, Deduct	-9.14	
For >200 To 400, Deduct	-18.29	
For >400, Deduct	-27.43	
03 31 13 00-0046 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams.....	345.16	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	37.53	
For >20 To 50, Add	14.07	
For >100 To 200, Deduct	-6.90	
For >200 To 400, Deduct	-13.81	
For >400, Deduct	-20.71	
<b>03 31 13 00-0047 Place Elevated Concrete Slab (03 31 13 00-0043)</b>		

**03 Concrete****03 30 Cast-In-Place Concrete****03 31 Structural Concrete**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0048	CY	Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab .....	338.00	
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
		<i>For 3,500 PSI Concrete, Add</i>	11.60	
		<i>For 3,750 PSI Concrete, Add</i>	15.78	
		<i>For 4,000 PSI Concrete, Add</i>	19.95	
		<i>For 4,500 PSI Concrete, Add</i>	23.20	
		<i>For 5,000 PSI Concrete, Add</i>	26.45	
		<i>For 6,000 PSI Concrete, Add</i>	62.64	
		<i>For White Cement Concrete, Add</i>	27.84	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
		<i>For Up To 20, Add</i>	42.40	
		<i>For &gt;20 To 50, Add</i>	15.90	
		<i>For &gt;100 To 200, Deduct</i>	-6.76	
		<i>For &gt;200 To 400, Deduct</i>	-13.52	
		<i>For &gt;400, Deduct</i>	-20.28	
03 31 13 00-0049	CY	>6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab .....	312.42	
		<i>For 2,000 PSI Concrete, Deduct</i>	-12.53	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.26	
		<i>For 3,500 PSI Concrete, Add</i>	11.60	
		<i>For 3,750 PSI Concrete, Add</i>	15.78	
		<i>For 4,000 PSI Concrete, Add</i>	19.95	
		<i>For 4,500 PSI Concrete, Add</i>	23.20	
		<i>For 5,000 PSI Concrete, Add</i>	26.45	
		<i>For 6,000 PSI Concrete, Add</i>	62.64	
		<i>For White Cement Concrete, Add</i>	27.84	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	30.16	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	23.20	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	81.20	
		<i>For Up To 20, Add</i>	32.17	
		<i>For &gt;20 To 50, Add</i>	12.06	
		<i>For &gt;100 To 200, Deduct</i>	-6.25	
		<i>For &gt;200 To 400, Deduct</i>	-12.50	
		<i>For &gt;400, Deduct</i>	-18.75	
03 31 13 00-0050	CY	Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab .....	295.51	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-13.57	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.79	
		<i>For 3,500 PSI Concrete, Add</i>	12.57	
		<i>For 3,750 PSI Concrete, Add</i>	17.09	
		<i>For 4,000 PSI Concrete, Add</i>	21.61	
		<i>For 4,500 PSI Concrete, Add</i>	25.13	
		<i>For 5,000 PSI Concrete, Add</i>	28.65	
		<i>For 6,000 PSI Concrete, Add</i>	67.86	
		<i>For White Cement Concrete, Add</i>	30.16	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	32.67	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	25.13	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	87.97	
		<i>For Up To 20, Add</i>	17.67	
		<i>For &gt;20 To 50, Add</i>	6.63	
		<i>For &gt;100 To 200, Deduct</i>	-5.91	
		<i>For &gt;200 To 400, Deduct</i>	-11.82	
		<i>For &gt;400, Deduct</i>	-17.73	
03 31 13 00-0051	CY	>6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab .....	284.85	
		Note: Excludes pumping equipment.		
		<i>For 2,000 PSI Concrete, Deduct</i>	-13.57	
		<i>For 2,500 PSI Concrete, Deduct</i>	-6.79	
		<i>For 3,500 PSI Concrete, Add</i>	12.57	
		<i>For 3,750 PSI Concrete, Add</i>	17.09	
		<i>For 4,000 PSI Concrete, Add</i>	21.61	
		<i>For 4,500 PSI Concrete, Add</i>	25.13	
		<i>For 5,000 PSI Concrete, Add</i>	28.65	
		<i>For 6,000 PSI Concrete, Add</i>	67.86	
		<i>For White Cement Concrete, Add</i>	30.16	
		<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	32.67	
		<i>For High Early Strength, Type 3 ASTM C150, Add</i>	25.13	
		<i>For Lightweight Aggregate, ASTM C330, Add</i>	87.97	
		<i>For Up To 20, Add</i>	13.41	
		<i>For &gt;20 To 50, Add</i>	5.03	
		<i>For &gt;100 To 200, Deduct</i>	-5.70	
		<i>For &gt;200 To 400, Deduct</i>	-11.39	
		<i>For &gt;400, Deduct</i>	-17.09	

03 31 13 00-0052 Place Concrete Columns (03 31 13 00-0043)



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0053 CY 12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	475.18	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	97.27	
For >20 To 50, Add	36.48	
For >100 To 200, Deduct	-9.50	
For >200 To 400, Deduct	-19.01	
For >400, Deduct	-28.51	
03 31 13 00-0054 CY 18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	408.74	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	70.70	
For >20 To 50, Add	26.51	
For >100 To 200, Deduct	-8.17	
For >200 To 400, Deduct	-16.35	
For >400, Deduct	-24.52	
03 31 13 00-0055 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	361.24	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	51.70	
For >20 To 50, Add	19.39	
For >100 To 200, Deduct	-7.22	
For >200 To 400, Deduct	-14.45	
For >400, Deduct	-21.67	
03 31 13 00-0056 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	340.07	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	43.23	
For >20 To 50, Add	16.21	
For >100 To 200, Deduct	-6.80	
For >200 To 400, Deduct	-13.60	
For >400, Deduct	-20.40	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0057	CY		12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....352.66		
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	40.53	
			For >20 To 50, Add	15.20	
			For >100 To 200, Deduct	-7.05	
			For >200 To 400, Deduct	-14.11	
			For >400, Deduct	-21.16	
03 31 13 00-0058	CY		18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....324.99		
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	29.46	
			For >20 To 50, Add	11.05	
			For >100 To 200, Deduct	-6.50	
			For >200 To 400, Deduct	-13.00	
			For >400, Deduct	-19.50	
03 31 13 00-0059	CY		24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....305.19		
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	21.54	
			For >20 To 50, Add	8.08	
			For >100 To 200, Deduct	-6.10	
			For >200 To 400, Deduct	-12.21	
			For >400, Deduct	-18.31	
03 31 13 00-0060	CY		36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....296.36		
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-13.57	
			For 2,500 PSI Concrete, Deduct	-6.79	
			For 3,500 PSI Concrete, Add	12.57	
			For 3,750 PSI Concrete, Add	17.09	
			For 4,000 PSI Concrete, Add	21.61	
			For 4,500 PSI Concrete, Add	25.13	
			For 5,000 PSI Concrete, Add	28.65	
			For 6,000 PSI Concrete, Add	67.86	
			For White Cement Concrete, Add	30.16	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
			For High Early Strength, Type 3 ASTM C150, Add	25.13	
			For Lightweight Aggregate, ASTM C330, Add	87.97	
			For Up To 20, Add	18.01	
			For >20 To 50, Add	6.75	
			For >100 To 200, Deduct	-5.93	
			For >200 To 400, Deduct	-11.85	
			For >400, Deduct	-17.78	

03 31 13 00-0061 Place Concrete Walls (03 31 13 00-0043)



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0062 CY Up To 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls .....	459.96	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	91.19	
For >20 To 50, Add	34.20	
For >100 To 200, Deduct	-9.20	
For >200 To 400, Deduct	-18.40	
For >400, Deduct	-27.60	
03 31 13 00-0063 CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls .....	441.06	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	83.63	
For >20 To 50, Add	31.36	
For >100 To 200, Deduct	-8.82	
For >200 To 400, Deduct	-17.64	
For >400, Deduct	-26.46	
03 31 13 00-0064 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls .....	391.57	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	63.83	
For >20 To 50, Add	23.94	
For >100 To 200, Deduct	-7.83	
For >200 To 400, Deduct	-15.66	
For >400, Deduct	-23.49	
03 31 13 00-0065 CY Up To 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls .....	331.74	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	39.90	
For >20 To 50, Add	14.96	
For >100 To 200, Deduct	-6.63	
For >200 To 400, Deduct	-13.27	
For >400, Deduct	-19.90	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0066	CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls .....	311.79	
	For 2,000 PSI Concrete, Deduct	-12.53	
	For 2,500 PSI Concrete, Deduct	-6.26	
	For 3,500 PSI Concrete, Add	11.60	
	For 3,750 PSI Concrete, Add	15.78	
	For 4,000 PSI Concrete, Add	19.95	
	For 4,500 PSI Concrete, Add	23.20	
	For 5,000 PSI Concrete, Add	26.45	
	For 6,000 PSI Concrete, Add	62.64	
	For White Cement Concrete, Add	27.84	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
	For High Early Strength, Type 3 ASTM C150, Add	23.20	
	For Lightweight Aggregate, ASTM C330, Add	81.20	
	For Up To 20, Add	31.92	
	For >20 To 50, Add	11.97	
	For >100 To 200, Deduct	-6.24	
	For >200 To 400, Deduct	-12.47	
	For >400, Deduct	-18.71	
03 31 13 00-0067	CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls .....	301.82	
	For 2,000 PSI Concrete, Deduct	-12.53	
	For 2,500 PSI Concrete, Deduct	-6.26	
	For 3,500 PSI Concrete, Add	11.60	
	For 3,750 PSI Concrete, Add	15.78	
	For 4,000 PSI Concrete, Add	19.95	
	For 4,500 PSI Concrete, Add	23.20	
	For 5,000 PSI Concrete, Add	26.45	
	For 6,000 PSI Concrete, Add	62.64	
	For White Cement Concrete, Add	27.84	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
	For High Early Strength, Type 3 ASTM C150, Add	23.20	
	For Lightweight Aggregate, ASTM C330, Add	81.20	
	For Up To 20, Add	27.93	
	For >20 To 50, Add	10.47	
	For >100 To 200, Deduct	-6.04	
	For >200 To 400, Deduct	-12.07	
	For >400, Deduct	-18.11	
03 31 13 00-0068	CY Up To 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls .....	346.33	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-13.57	
	For 2,500 PSI Concrete, Deduct	-6.79	
	For 3,500 PSI Concrete, Add	12.57	
	For 3,750 PSI Concrete, Add	17.09	
	For 4,000 PSI Concrete, Add	21.61	
	For 4,500 PSI Concrete, Add	25.13	
	For 5,000 PSI Concrete, Add	28.65	
	For 6,000 PSI Concrete, Add	67.86	
	For White Cement Concrete, Add	30.16	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
	For High Early Strength, Type 3 ASTM C150, Add	25.13	
	For Lightweight Aggregate, ASTM C330, Add	87.97	
	For Up To 20, Add	38.00	
	For >20 To 50, Add	14.25	
	For >100 To 200, Deduct	-6.93	
	For >200 To 400, Deduct	-13.85	
	For >400, Deduct	-20.78	
03 31 13 00-0069	CY 12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls .....	327.32	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-13.57	
	For 2,500 PSI Concrete, Deduct	-6.79	
	For 3,500 PSI Concrete, Add	12.57	
	For 3,750 PSI Concrete, Add	17.09	
	For 4,000 PSI Concrete, Add	21.61	
	For 4,500 PSI Concrete, Add	25.13	
	For 5,000 PSI Concrete, Add	28.65	
	For 6,000 PSI Concrete, Add	67.86	
	For White Cement Concrete, Add	30.16	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
	For High Early Strength, Type 3 ASTM C150, Add	25.13	
	For Lightweight Aggregate, ASTM C330, Add	87.97	
	For Up To 20, Add	30.40	
	For >20 To 50, Add	11.40	
	For >100 To 200, Deduct	-6.55	
	For >200 To 400, Deduct	-13.09	
	For >400, Deduct	-19.64	





<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0070 CY 15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls .....	317.83	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	26.60	
For >20 To 50, Add	9.98	
For >100 To 200, Deduct	-6.36	
For >200 To 400, Deduct	-12.71	
For >400, Deduct	-19.07	
<b>03 31 13 00-0071 Place Elevated Concrete Stairs (03 31 13 00-0043)</b>		
03 31 13 00-0072 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs .....	692.87	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	184.35	
For >20 To 50, Add	69.13	
For >100 To 200, Deduct	-13.86	
For >200 To 400, Deduct	-27.71	
For >400, Deduct	-41.57	
03 31 13 00-0073 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	433.66	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	80.66	
For >20 To 50, Add	30.25	
For >100 To 200, Deduct	-8.67	
For >200 To 400, Deduct	-17.35	
For >400, Deduct	-26.02	
03 31 13 00-0074 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	419.39	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	67.22	
For >20 To 50, Add	25.21	
For >100 To 200, Deduct	-8.39	
For >200 To 400, Deduct	-16.78	
For >400, Deduct	-25.16	
<b>03 31 13 00-0075 Place Concrete Coping (03 31 13 00-0043)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0076 CY Crane And Bucket, Place 3,000 PSI Concrete Coping .....	708.82	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	190.73	
For >20 To 50, Add	71.52	
For >100 To 200, Deduct	-14.18	
For >200 To 400, Deduct	-28.35	
For >400, Deduct	-42.53	
03 31 13 00-0077 CY Direct Chute, Place 3,000 PSI Concrete Coping .....	432.30	
For 2,000 PSI Concrete, Deduct	-12.53	
For 2,500 PSI Concrete, Deduct	-6.26	
For 3,500 PSI Concrete, Add	11.60	
For 3,750 PSI Concrete, Add	15.78	
For 4,000 PSI Concrete, Add	19.95	
For 4,500 PSI Concrete, Add	23.20	
For 5,000 PSI Concrete, Add	26.45	
For 6,000 PSI Concrete, Add	62.64	
For White Cement Concrete, Add	27.84	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	30.16	
For High Early Strength, Type 3 ASTM C150, Add	23.20	
For Lightweight Aggregate, ASTM C330, Add	81.20	
For Up To 20, Add	80.12	
For >20 To 50, Add	30.05	
For >100 To 200, Deduct	-8.65	
For >200 To 400, Deduct	-17.29	
For >400, Deduct	-25.94	
03 31 13 00-0078 CY Concrete Pump, Place 3,000 PSI Concrete Coping .....	554.72	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-13.57	
For 2,500 PSI Concrete, Deduct	-6.79	
For 3,500 PSI Concrete, Add	12.57	
For 3,750 PSI Concrete, Add	17.09	
For 4,000 PSI Concrete, Add	21.61	
For 4,500 PSI Concrete, Add	25.13	
For 5,000 PSI Concrete, Add	28.65	
For 6,000 PSI Concrete, Add	67.86	
For White Cement Concrete, Add	30.16	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	32.67	
For High Early Strength, Type 3 ASTM C150, Add	25.13	
For Lightweight Aggregate, ASTM C330, Add	87.97	
For Up To 20, Add	121.36	
For >20 To 50, Add	45.51	
For >100 To 200, Deduct	-11.09	
For >200 To 400, Deduct	-22.19	
For >400, Deduct	-33.28	
<b>03 31 13 00-0079 Concrete Carts</b> <small>(03 31 13 00-0010)</small>		
Note: Used to place concrete were necessary.		
03 31 13 00-0080 CY 50' Haul, Non-Motorized, Concrete Buggy .....	23.63	
03 31 13 00-0081 CY 150' Haul, Non-Motorized, Concrete Buggy .....	31.63	
03 31 13 00-0082 CY 250' Haul, Non-Motorized, Concrete Buggy .....	42.19	
03 31 13 00-0083 CY 50' Haul, Motorized, Concrete Buggy .....	10.79	
03 31 13 00-0084 CY 150' Haul, Motorized, Concrete Buggy .....	14.45	
03 31 13 00-0085 CY 250' Haul, Motorized, Concrete Buggy .....	19.27	
<b>03 31 13 00-0086 Delivery Fee For Small Concrete Purchases (Short Load)</b> <small>(03 31 13)</small>		
03 31 13 00-0087 CY Delivery Fee For Small Concrete Purchases (Short Load) Per CY For Each CY Less Than 9 CY .....	33.02	
Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.		
<b>03 31 13 00-0088 Equipment Pads</b> <small>(03 31 13)</small>		
<b>03 31 13 00-0089 Small Concrete Equipment Housekeeping Pad Assemblies</b> <small>(03 31 13 00-0088)</small>		
Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project. See CSI section 03 31 13 00-0002 for >50 SF concrete pads.		
03 31 13 00-0090 SF 4" Equipment Pad With Welded Wire Reinforcement Assembly .....	19.79	
For >5 To 20 Pads, Deduct	-2.31	
For >20 To 50 Pads, Deduct	-4.23	
For >50 Pads, Deduct	-6.15	
03 31 13 00-0091 SF 4" Equipment Pad With Rebar Assembly .....	24.11	
For >5 To 20 Pads, Deduct	-2.66	
For >20 To 50 Pads, Deduct	-4.88	
For >50 Pads, Deduct	-7.09	



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0092 SF 6" Equipment Pad With Rebar Assembly.....	30.60	
For >5 To 20 Pads, Deduct	-3.34	
For >20 To 50 Pads, Deduct	-6.13	
For >50 Pads, Deduct	-8.91	
03 31 13 00-0093 SF 8" Equipment Pad With Rebar Assembly.....	38.57	
For >5 To 20 Pads, Deduct	-4.25	
For >20 To 50 Pads, Deduct	-7.79	
For >50 Pads, Deduct	-11.32	
<b>03 31 13 00-0094 Delivery Fee For Concrete, Per Truck Load (03 31 13)</b>		
03 31 13 00-0095 EA Concrete Delivery Fee, Per Truck.....	40.00	
Note: To be added to all concrete leaving concrete yard		
<b>03 31 16 Lightweight Structural Concrete (03 31)</b>		
03 31 16 00-0001 Low Density Cellular / Foam Concrete Fill (03 31 16)		
03 31 16 00-0002 CY Lightweight Low Density Pervious Cellular/Foam Concrete, 100 To 120 PCF Density Range.....	295.50	
<b>03 35 Concrete Finishing (03 30)</b>		
<b>03 35 13 High-Tolerance Concrete Floor Finishing (03 35)</b>		
03 35 13 00-0001 Floor Finishes (03 35 13)		
Note: Task is for final finish type and includes all required prior finishes.		
03 35 13 00-0002 SF Scream, Concrete Floor Finish.....	1.01	
For Up To 100, Add	2.02	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.25	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.10	
03 35 13 00-0003 SF Darby, Concrete Floor Finish.....	1.21	
For Up To 100, Add	2.42	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.30	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000, Deduct	-0.12	
03 35 13 00-0004 SF Broom, Concrete Floor Finish.....	1.33	
For Up To 100, Add	2.66	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.33	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000, Deduct	-0.13	
03 35 13 00-0005 SF Final Float, Concrete Floor Finish.....	1.56	
For Up To 100, Add	3.12	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000, Deduct	-0.16	
03 35 13 00-0006 SF Steel Trowel, Concrete Floor Finish.....	1.75	
For Up To 100, Add	3.50	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.44	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000, Deduct	-0.18	
03 35 13 00-0007 SF Concrete Floor Finishes, Machine.....	1.56	
For Up To 100, Add	3.12	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.39	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000, Deduct	-0.16	
<b>03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)</b>		
03 35 16 00-0001 Shake On Floor Hardeners (03 35 16)		
03 35 16 00-0002 SF 0.3 LB/SF, Metallic, Shake On Floor Hardener.....	1.36	
03 35 16 00-0003 SF 0.65 LB/SF, Metallic, Shake On Floor Hardener.....	2.17	
03 35 16 00-0004 SF 0.3 LB/SF, Non-Metallic, Shake On Floor Hardener.....	1.27	
03 35 16 00-0005 SF 0.65 LB/SF, Non-Metallic, Shake On Floor Hardener.....	1.61	
<b>03 35 19 Colored Concrete Finishing (03 35)</b>		
03 35 19 00-0001 Concrete Surface Treatments (03 35 19)		
03 35 19 00-0002 SF Acrylic Latex Bonding Agent.....	0.52	
03 35 19 00-0003 SF Epoxy Resin Bonding Agent.....	3.18	
03 35 19 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproof.....	0.38	
03 35 19 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproof.....	0.40	
<b>03 35 23 Exposed Aggregate Concrete Finishing (03 35)</b>		

<b>03</b>	<b>03 Concrete</b>
	<b>03 30 Cast-In-Place Concrete</b>
	<b>03 35 Concrete Finishing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>03 35 23 00-0001 Exposed Aggregate, Concrete Finish</b> <small>(03 35 23)</small>		
03 35 23 00-0002 SF Exposed Aggregate, Concrete Floor Finish .....	3.28	
<b>03 35 26 Grooved Concrete Surface Finishing</b> <small>(03 35)</small>		
<b>03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing</b> <small>(03 35 26)</small>		
03 35 26 00-0002 SF Ramp, Grooved Concrete Surface Finishing .....	4.63	
<b>03 35 29 Tooled Concrete Finishing</b> <small>(03 35)</small>		
<b>03 35 29 00-0001 Solid Board Concrete Finish</b> <small>(03 35 29)</small>		
03 35 29 00-0002 SF Solid Board Concrete, Non-Uniform Finish, 1 Use, Add To Formwork .....	18.19	
<b>03 35 29 00-0003 Marblecrete Finishes</b> <small>(03 35 29)</small>		
03 35 29 00-0004 SF 2" Thick Marblecrete And Finish .....	54.40	
03 35 29 00-0005 SF 4" Thick Marblecrete And Finish .....	72.83	
<b>03 35 33 Stamped Concrete Finishing</b> <small>(03 35)</small>		
<b>03 35 33 00-0001 Stamped Concrete Finishes</b> <small>(03 35 33)</small>		
03 35 33 00-0002 SF Up To 2,500 SF Stamped Concrete Finish .....	4.06	
03 35 33 00-0003 SF >2,500 To 10,000 SF Stamped Concrete Finish .....	3.68	
03 35 33 00-0004 SF >10,000 SF Stamped Concrete Finish .....	3.52	
<b>03 35 43 Polished Concrete Finishing</b> <small>(03 35)</small>		
<b>03 35 43 00-0001 Concrete Floor Polishing System</b> <small>(03 35 43)</small>		
Note: The floor polishing system below may consist of one or multiple applications of each task/step below depending on existing conditions and desired results.		
03 35 43 00-0002 SF Mechanically Grind Concrete Floor With 40 Grit Metal Bonded Diamond Wheels .....	1.91	
For Up To 500, Add	3.63	
For >500 To 1,000, Add	3.37	
For >1,000 To 2,500, Add	2.23	
For >2,500 To 4,000, Add	1.16	
For >8,000 To 15,000, Deduct	-0.45	
For >15,000 To 25,000, Deduct	-0.57	
For >25,000, Deduct	-0.80	
03 35 43 00-0003 SF Mechanically Grind Concrete Floor With 80 Grit Metal Bonded Diamond Wheels .....	1.54	
For Up To 500, Add	2.91	
For >500 To 1,000, Add	2.70	
For >1,000 To 2,500, Add	1.79	
For >2,500 To 4,000, Add	0.93	
For >8,000 To 15,000, Deduct	-0.36	
For >15,000 To 25,000, Deduct	-0.46	
For >25,000, Deduct	-0.65	
03 35 43 00-0004 SF Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels .....	1.28	
For Up To 500, Add	2.41	
For >500 To 1,000, Add	2.23	
For >1,000 To 2,500, Add	1.48	
For >2,500 To 4,000, Add	0.77	
For >8,000 To 15,000, Deduct	-0.30	
For >15,000 To 25,000, Deduct	-0.38	
For >25,000, Deduct	-0.53	
03 35 43 00-0005 SF Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels .....	1.20	
For Up To 500, Add	2.25	
For >500 To 1,000, Add	2.09	
For >1,000 To 2,500, Add	1.38	
For >2,500 To 4,000, Add	0.72	
For >8,000 To 15,000, Deduct	-0.28	
For >15,000 To 25,000, Deduct	-0.35	
For >25,000, Deduct	-0.50	
03 35 43 00-0006 SF Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels .....	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	
03 35 43 00-0007 SF Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels .....	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Concrete Finishing	03 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0008 SF Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels .....	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	
03 35 43 00-0009 SF Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels .....	1.10	
For Up To 500, Add	2.06	
For >500 To 1,000, Add	1.91	
For >1,000 To 2,500, Add	1.26	
For >2,500 To 4,000, Add	0.66	
For >8,000 To 15,000, Deduct	-0.25	
For >15,000 To 25,000, Deduct	-0.32	
For >25,000, Deduct	-0.46	
03 35 43 00-0010 SF High Speed Burnish Concrete Floor With Diamond Pads.....	0.27	
For Up To 500, Add	0.45	
For >500 To 1,000, Add	0.41	
For >1,000 To 2,500, Add	0.27	
For >2,500 To 4,000, Add	0.14	
For >8,000 To 15,000, Deduct	-0.06	
For >15,000 To 25,000, Deduct	-0.07	
For >25,000, Deduct	-0.10	
03 35 43 00-0011 SF Apply 1 Coat Of Concrete Densifier For Concrete Floor Polishing .....	0.52	
For Up To 500, Add	0.56	
For >500 To 1,000, Add	0.52	
For >1,000 To 2,500, Add	0.35	
For >2,500 To 4,000, Add	0.18	
For >8,000 To 15,000, Deduct	-0.07	
For >15,000 To 25,000, Deduct	-0.09	
For >25,000, Deduct	-0.12	
03 35 43 00-0012 SF Apply 2 Coats Of Concrete Densifier With Stain Protector For Concrete Floor Polishing.....	0.88	
For Up To 500, Add	0.81	
For >500 To 1,000, Add	0.76	
For >1,000 To 2,500, Add	0.50	
For >2,500 To 4,000, Add	0.26	
For >8,000 To 15,000, Deduct	-0.10	
For >15,000 To 25,000, Deduct	-0.13	
For >25,000, Deduct	-0.18	
03 35 43 00-0013 SF Concrete Floor Polishing Final Clean Up.....	0.15	
For Up To 500, Add	0.29	
For >500 To 1,000, Add	0.27	
For >1,000 To 2,500, Add	0.18	
For >2,500 To 4,000, Add	0.09	
For >8,000 To 15,000, Deduct	-0.04	
For >15,000 To 25,000, Deduct	-0.05	
For >25,000, Deduct	-0.06	
<b>03 35 63 Slip-Resistant Floor Finishing (03 35)</b>		
<b>03 35 63 00-0001 Slip-Resistant Floor Finishing (03 35 63)</b>		
03 35 63 00-0002 SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF .....	1.61	
For Up To 100, Add	1.94	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.24	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.10	
03 35 63 00-0003 SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF .....	1.31	
For Up To 100, Add	1.94	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.24	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.10	
<b>03 35 66 Acid Etch Floor Finishing (03 35)</b>		
<b>03 35 66 00-0001 Acid Etch Floor (03 35 66)</b>		
03 35 66 00-0002 SF Concrete Floor Finishes, Etch With Acid And Rinse .....	1.20	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.12	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000, Deduct	-0.05	
<b>03 35 83 Concrete Wall Finishing (03 35)</b>		
<b>03 35 83 00-0001 Wall Finishes (03 35 83)</b>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0002	SF		Burlap Rub With Grout, New Concrete Wall Finishes .....	1.82	
			<i>For Up To 100, Add</i>	3.38	
			<i>For &gt;100 To 250, Add</i>	0.85	
			<i>For &gt;250 To 500, Add</i>	0.42	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000, Deduct</i>	-0.17	
03 35 83 00-0003	SF		1/16" Float Finish, New Concrete Wall Finishes .....	2.73	
			<i>For Up To 100, Add</i>	5.06	
			<i>For &gt;100 To 250, Add</i>	1.27	
			<i>For &gt;250 To 500, Add</i>	0.63	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000, Deduct</i>	-0.25	
03 35 83 00-0004	SF		Etch With Acid And Rinse, New Concrete Wall Finishes .....	1.30	
			<i>For Up To 100, Add</i>	1.12	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.03	
			<i>For &gt;10,000, Deduct</i>	-0.06	
03 35 83 00-0005	SF		Bush Hammer Green Concrete, New Concrete Wall Finishes .....	5.43	
			<i>For Up To 100, Add</i>	10.72	
			<i>For &gt;100 To 250, Add</i>	2.68	
			<i>For &gt;250 To 500, Add</i>	1.34	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.27	
			<i>For &gt;10,000, Deduct</i>	-0.54	
03 35 83 00-0006	SF		Bush Hammer Cured Concrete, New Concrete Wall Finishes .....	8.41	
			<i>For Up To 100, Add</i>	16.56	
			<i>For &gt;100 To 250, Add</i>	4.14	
			<i>For &gt;250 To 500, Add</i>	2.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.41	
			<i>For &gt;10,000, Deduct</i>	-0.83	
03 35 83 00-0007	SF		Break Ties And Patch, New Concrete Wall Finishes .....	1.08	
			<i>For Up To 100, Add</i>	1.82	
			<i>For &gt;100 To 250, Add</i>	0.46	
			<i>For &gt;250 To 500, Add</i>	0.23	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.05	
			<i>For &gt;10,000, Deduct</i>	-0.09	
03 35 83 00-0008	SF		Carborundum Dry Rub, New Concrete Wall Finishes .....	3.54	
			<i>For Up To 100, Add</i>	6.74	
			<i>For &gt;100 To 250, Add</i>	1.69	
			<i>For &gt;250 To 500, Add</i>	0.84	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.17	
			<i>For &gt;10,000, Deduct</i>	-0.34	
03 35 83 00-0009	SF		Carborundum Wet Rub, New Concrete Wall Finishes .....	5.38	
			<i>For Up To 100, Add</i>	10.42	
			<i>For &gt;100 To 250, Add</i>	2.61	
			<i>For &gt;250 To 500, Add</i>	1.30	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.26	
			<i>For &gt;10,000, Deduct</i>	-0.52	
03 35 83 00-0010	SF		Up To 1/4" Penetration Abrasive Media Blasting, New Concrete Wall Finishes .....	5.42	
			Note: 4.5 Lbs of sand or abrasive media material per SF		
			<i>For Up To 100, Add</i>	8.64	
			<i>For &gt;100 To 250, Add</i>	2.16	
			<i>For &gt;250 To 500, Add</i>	1.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.22	
			<i>For &gt;10,000, Deduct</i>	-0.43	
03 35 83 00-0011	SF		>1/4" To 1/2" Penetration Abrasive Media Blasting, New Concrete Wall Finishes .....	10.83	
			Note: 9 Lbs of sand abrasive media material per SF		
			<i>For Up To 100, Add</i>	17.28	
			<i>For &gt;100 To 250, Add</i>	4.32	
			<i>For &gt;250 To 500, Add</i>	2.16	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.43	
			<i>For &gt;10,000, Deduct</i>	-0.86	

### 03 37 Specialty Placed Concrete (03 30)

Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.

#### 03 37 13 Shotcrete (03 37)

##### 03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair (03 37 13)

03 37 13 00-0002	SF		1" Thick Shotcrete, Fiber Reinforced .....	3.44	
			<i>For Up To 25, Add</i>	0.64	
			<i>For &gt;25 To 50, Add</i>	0.37	
			<i>For &gt;50 To 150, Add</i>	0.15	
03 37 13 00-0003	SF		2" Thick Shotcrete, Fiber Reinforced .....	6.49	
			<i>For Up To 25, Add</i>	1.19	
			<i>For &gt;25 To 50, Add</i>	0.68	
			<i>For &gt;50 To 150, Add</i>	0.27	
03 37 13 00-0004	SF		3" Thick Shotcrete, Fiber Reinforced .....	9.19	
			<i>For Up To 25, Add</i>	1.65	
			<i>For &gt;25 To 50, Add</i>	0.94	
			<i>For &gt;50 To 150, Add</i>	0.36	
03 37 13 00-0005	SF		4" Thick Shotcrete, Fiber Reinforced .....	11.60	
			<i>For Up To 25, Add</i>	2.03	
			<i>For &gt;25 To 50, Add</i>	1.16	
			<i>For &gt;50 To 150, Add</i>	0.44	



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Specialty Placed Concrete	03 37	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0006 SF 6" Thick Shotcrete, Fiber Reinforced .....	15.74	
For Up To 25, Add	2.63	
For >25 To 50, Add	1.49	
For >50 To 150, Add	0.53	
<b>03 37 13 00-0007 Gunite (Dry Mix Shotcrete), Sprayed</b> <sup>(03 37 13)</sup>		
See CSI section 03 22 11 00-0001 for wire mesh reinforcing.		
03 37 13 00-0008 SF 1" Thick Gunite (Dry Mix Shotcrete), Sprayed .....	3.74	
For Radius Or Irregular Surface, Add	1.10	
For Up To 25, Add	0.79	
For >25 To 50, Add	0.46	
For >50 To 150, Add	0.21	
03 37 13 00-0009 SF 2" Thick Gunite (Dry Mix Shotcrete), Sprayed .....	6.91	
For Radius Or Irregular Surface, Add	1.98	
For Up To 25, Add	1.43	
For >25 To 50, Add	0.84	
For >50 To 150, Add	0.37	
03 37 13 00-0010 SF 3" Thick Gunite (Dry Mix Shotcrete), Sprayed .....	9.62	
For Radius Or Irregular Surface, Add	2.67	
For Up To 25, Add	1.96	
For >25 To 50, Add	1.15	
For >50 To 150, Add	0.50	
03 37 13 00-0011 SF 4" Thick Gunite (Dry Mix Shotcrete), Sprayed .....	11.94	
For Radius Or Irregular Surface, Add	3.20	
For Up To 25, Add	2.39	
For >25 To 50, Add	1.40	
For >50 To 150, Add	0.60	
03 37 13 00-0012 SF 5" Thick Gunite (Dry Mix Shotcrete), Sprayed .....	13.92	
For Radius Or Irregular Surface, Add	3.60	
For Up To 25, Add	2.74	
For >25 To 50, Add	1.60	
For >50 To 150, Add	0.68	
03 37 13 00-0013 SF 6" Thick Gunite (Dry Mix Shotcrete), Sprayed .....	15.63	
For Radius Or Irregular Surface, Add	3.89	
For Up To 25, Add	3.02	
For >25 To 50, Add	1.75	
For >50 To 150, Add	0.73	
03 37 13 00-0014 SF 8" Thick Gunite (Dry Mix Shotcrete), Sprayed .....	19.53	
For Radius Or Irregular Surface, Add	4.66	
For Up To 25, Add	3.70	
For >25 To 50, Add	2.14	
For >50 To 150, Add	0.87	
03 37 13 00-0015 SF 10" Thick Gunite (Dry Mix Shotcrete), Sprayed .....	22.96	
For Radius Or Irregular Surface, Add	5.25	
For Up To 25, Add	4.26	
For >25 To 50, Add	2.46	
For >50 To 150, Add	0.98	
03 37 13 00-0016 SF 12" Thick Gunite (Dry Mix Shotcrete), Sprayed .....	25.98	
For Radius Or Irregular Surface, Add	5.67	
For Up To 25, Add	4.72	
For >25 To 50, Add	2.72	
For >50 To 150, Add	1.06	

**03 37 16 Pumped Concrete** <sup>(03 37)</sup>

**03 37 16 00-0001 Concrete Pumping With Boom Truck** <sup>(03 37 16)</sup>

Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach. See CSI section 03 31 13 00-0010 for concrete placement.

03 37 16 00-0002 HR 55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating) .....	246.46
03 37 16 00-0003 HR 70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating) .....	268.22
03 37 16 00-0004 HR 90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating) .....	346.81
03 37 16 00-0005 HR 105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating) .....	395.73
03 37 16 00-0006 HR 120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating) .....	446.22
03 37 16 00-0007 HR 135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating) .....	553.15
03 37 16 00-0008 HR 148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating) .....	616.94
03 37 16 00-0009 HR 170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating) .....	771.45
03 37 16 00-0010 HR 35 CY/HR, 66 HP Trailer Mounted Concrete Pump .....	167.62

Note: Includes hoses

**03 39 Concrete Curing** <sup>(03 30)</sup>

**03 39 13 Water Concrete Curing** <sup>(03 39)</sup>

**03 39 13 00-0001 Water Concrete Curing** <sup>(03 39 13)</sup>

03 39 13 00-0002 SF Water Based Curing, Sealing, Hardening And Dustproofing Compound .....	0.35
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Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.

<b>03</b>	<b>03 Concrete</b>
	<b>03 30 Cast-In-Place Concrete</b>
	<b>03 39 Concrete Curing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**03 39 23 Membrane Concrete Curing** (03 39)

**03 39 23 23 Sheet Membrane Concrete Curing** (03 39 23)

**03 39 23 23-0001 Warm Weather Concrete Curing Blankets** (03 39 23 23)

03 39 23 23-0002	CSF Warm Weather Concrete Curing Blankets .....	37.35
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**03 39 23 23-0003 Cold Weather Concrete Curing Blankets** (03 39 23 23)

03 39 23 23-0004	CSF Electric, Cold Weather Concrete Curing Blanket .....	305.03
03 39 23 23-0005	CSF Non-Electric, Cold Weather Concrete Curing Blanket .....	36.86

**03 40 Precast Concrete** (03)

Note: Precast concrete material prices are based on a precast operation producing large quantities of precast products. Includes the concrete panel, delivery to construction site and overhead/mobilization charges for the precast plant.

**03 41 Precast Structural Concrete** (03 40)

**03 41 16 Precast Concrete Slabs** (03 41)

**03 41 16 00-0001 Flat Floor Slab/Floor Plank** (03 41 16)

**03 41 16 00-0002 Erection Costs For Using A 90 Ton Crawler Crane** (03 41 16 00-0001)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0003	EA Erect Precast Floor Deck, 0-2 Ton/Piece 150' Maximum Radius With 90 Ton Crane.....	366.30	293.06
03 41 16 00-0004	EA Erect Precast Floor Deck, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	407.19	325.69
03 41 16 00-0005	EA Erect Precast Floor Deck, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane.....	432.38	345.88
03 41 16 00-0006	EA Erect Precast Floor Deck, 4-5 Ton/Piece 88' Maximum Radius With 90 Ton Crane.....	458.37	366.72
03 41 16 00-0007	EA Erect Precast Floor Deck, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane.....	490.53	392.41
03 41 16 00-0008	EA Erect Precast Floor Deck, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	524.25	419.41
03 41 16 00-0009	EA Erect Precast Floor Deck, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane.....	562.96	450.34
03 41 16 00-0010	EA Erect Precast Floor Deck, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	612.27	489.79
03 41 16 00-0011	EA Erect Precast Floor Deck, 9-10 Ton/Piece 60' Maximum Radius With 90 Ton Crane.....	665.72	532.65

**03 41 16 00-0012 Material Cost** (03 41 16 00-0001)

Note: Includes cost for 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations cost.

03 41 16 00-0013	SF 4" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	31.32
	<i>For 3,500 PSI Concrete, Add</i>	0.63
	<i>For 4,000 PSI Concrete, Add</i>	0.94
	<i>For 4,500 PSI Concrete, Add</i>	1.25
	<i>For 5,000 PSI Concrete, Add</i>	1.88
03 41 16 00-0014	SF 5" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	37.59
	<i>For 3,500 PSI Concrete, Add</i>	0.75
	<i>For 4,000 PSI Concrete, Add</i>	1.13
	<i>For 4,500 PSI Concrete, Add</i>	1.50
	<i>For 5,000 PSI Concrete, Add</i>	2.26
03 41 16 00-0015	SF 6" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	45.94
	<i>For 3,500 PSI Concrete, Add</i>	0.92
	<i>For 4,000 PSI Concrete, Add</i>	1.38
	<i>For 4,500 PSI Concrete, Add</i>	1.84
	<i>For 5,000 PSI Concrete, Add</i>	2.76
03 41 16 00-0016	SF 8" Thick 3,000 PSI Concrete, Precast Floor Slab Or Plank, Ready To Erect.....	60.98
	<i>For 3,500 PSI Concrete, Add</i>	1.22
	<i>For 4,000 PSI Concrete, Add</i>	1.83
	<i>For 4,500 PSI Concrete, Add</i>	2.44
	<i>For 5,000 PSI Concrete, Add</i>	3.66

**03 41 16 00-0017 Floor Units, Combination Beam And Slab** (03 41 16)

**03 41 16 00-0018 Erection Costs For Using 90 Ton Crawler Crane** (03 41 16 00-0017)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0019	EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 88' Maximum Radius With 90 Ton Crane .....	450.98	360.77
03 41 16 00-0020	EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 60' Maximum Radius With 90 Ton Crane .....	491.54	393.28
03 41 16 00-0021	EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 43' Maximum Radius With 90 Ton Crane .....	543.27	434.57
03 41 16 00-0022	EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 36' Maximum Radius With 90 Ton Crane .....	603.25	482.56
03 41 16 00-0023	EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 31' Maximum Radius With 90 Ton Crane .....	678.11	542.44

**03 41 16 00-0024 Erection Costs Using A 125 Ton Crawler Crane** (03 41 16 00-0017)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 16 00-0025	EA Erect Precast Comb Deck, 0-5 Ton/Piece Beam And Slab, 110' Maximum Radius, 125 Ton Crane.....	571.44	457.17
03 41 16 00-0026	EA Erect Precast Comb Deck, 5-10 Ton/Piece Beam And Slab, 75' Maximum Radius, 125 Ton Crane.....	622.84	498.23
03 41 16 00-0027	EA Erect Precast Comb Deck, 10-15 Ton/Piece Beam And Slab, 55' Maximum Radius, 125 Ton Crane.....	688.39	550.76
03 41 16 00-0028	EA Erect Precast Comb Deck, 15-20 Ton/Piece Beam And Slab, 50' Maximum Radius, 125 Ton Crane.....	764.38	611.53
03 41 16 00-0029	EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 40' Maximum Radius, 125 Ton Crane.....	859.24	687.45
03 41 16 00-0030	EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 33' Maximum Radius, 125 Ton Crane.....	934.25	747.34





<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Precast Concrete</b>	<b>03 40</b>	
<b>Precast Structural Concrete</b>	<b>03 41</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 16 00-0031 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 30' Maximum Radius, 125 Ton Crane .....	1,032.59	826.07
03 41 16 00-0032 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 28' Maximum Radius, 125 Ton Crane .....	1,142.86	914.36
03 41 16 00-0033 EA Erect Precast Comb Deck, 20-25 Ton/Piece Beam And Slab, 26' Maximum Radius, 125 Ton Crane .....	1,293.58	1,034.86
<b>03 41 16 00-0034 Material Cost</b> <small>(03 41 16 00-0017)</small>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operation.		
<b>03 41 16 00-0035 4" Slab</b> <small>(03 41 16 00-0034)</small>		
03 41 16 00-0036 CY Precast Combination Deck, 4" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,299.46	
For 3,500 PSI Concrete, Add	65.99	
For 4,000 PSI Concrete, Add	98.98	
For 4,500 PSI Concrete, Add	131.98	
For 5,000 PSI Concrete, Add	197.97	
03 41 16 00-0037 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,341.22	
For 3,500 PSI Concrete, Add	66.82	
For 4,000 PSI Concrete, Add	100.24	
For 4,500 PSI Concrete, Add	133.65	
For 5,000 PSI Concrete, Add	200.47	
03 41 16 00-0038 CY Precast Combination Deck, 4" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	3,758.87	
For 3,500 PSI Concrete, Add	75.18	
For 4,000 PSI Concrete, Add	112.77	
For 4,500 PSI Concrete, Add	150.35	
For 5,000 PSI Concrete, Add	225.53	
<b>03 41 16 00-0039 5" Slab</b> <small>(03 41 16 00-0034)</small>		
03 41 16 00-0040 CY Precast Combination Deck, 5" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,382.99	
For 3,500 PSI Concrete, Add	67.66	
For 4,000 PSI Concrete, Add	101.49	
For 4,500 PSI Concrete, Add	135.32	
For 5,000 PSI Concrete, Add	202.98	
03 41 16 00-0041 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	3,508.28	
For 3,500 PSI Concrete, Add	70.17	
For 4,000 PSI Concrete, Add	105.25	
For 4,500 PSI Concrete, Add	140.33	
For 5,000 PSI Concrete, Add	210.50	
03 41 16 00-0042 CY Precast Combination Deck, 5" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	4,468.88	
For 3,500 PSI Concrete, Add	89.38	
For 4,000 PSI Concrete, Add	134.07	
For 4,500 PSI Concrete, Add	178.76	
For 5,000 PSI Concrete, Add	268.13	
<b>03 41 16 00-0043 6" Slab</b> <small>(03 41 16 00-0034)</small>		
03 41 16 00-0044 CY Precast Combination Deck, 6" Slab With Beams Edge Beam Only, 3,000 PSI Concrete.....	3,508.28	
For 3,500 PSI Concrete, Add	70.17	
For 4,000 PSI Concrete, Add	105.25	
For 4,500 PSI Concrete, Add	140.33	
For 5,000 PSI Concrete, Add	210.50	
03 41 16 00-0045 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 1 Interim Beam, 3,000 PSI Concrete.....	4,176.53	
For 3,500 PSI Concrete, Add	83.53	
For 4,000 PSI Concrete, Add	125.30	
For 4,500 PSI Concrete, Add	167.06	
For 5,000 PSI Concrete, Add	250.59	
03 41 16 00-0046 CY Precast Combination Deck, 6" Slab With Beams Edge Beam + 2 Interim Beam, 3,000 PSI Concrete.....	5,095.36	
For 3,500 PSI Concrete, Add	101.91	
For 4,000 PSI Concrete, Add	152.86	
For 4,500 PSI Concrete, Add	203.81	
For 5,000 PSI Concrete, Add	305.72	
<b>03 41 19 Precast Concrete Wall Panels</b> <small>(03 41)</small>		
<b>03 41 19 00-0001 Structural Wall Panels</b> <small>(03 41 19)</small>		
Note: Gray, smooth form or board finish one side.		
<b>03 41 19 00-0002 Erection Cost Using 50 Ton Hydraulic Crane</b> <small>(03 41 19 00-0001)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0003 EA Erect Precast Wall Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	363.83	291.09
03 41 19 00-0004 EA Erect Precast Wall Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	404.46	323.50
03 41 19 00-0005 EA Erect Precast Wall Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	455.29	364.25
03 41 19 00-0006 EA Erect Precast Wall Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	487.23	389.77
03 41 19 00-0007 EA Erect Precast Wall Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	520.73	416.59
03 41 19 00-0008 EA Erect Precast Wall Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	559.17	447.31
03 41 19 00-0009 EA Erect Precast Wall Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	608.16	486.49
03 41 19 00-0010 EA Erect Precast Wall Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	661.24	529.06
<b>03 41 19 00-0011 Erection Cost Using 90 Ton Crawler Crane</b> <small>(03 41 19 00-0001)</small>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.		
03 41 19 00-0012 EA Erect Precast Wall Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	405.68	324.51

**03 Concrete****03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0013 EA Erect Precast Wall Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	450.98	360.77
03 41 19 00-0014 EA Erect Precast Wall Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	507.65	406.18
03 41 19 00-0015 EA Erect Precast Wall Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	543.27	434.57
03 41 19 00-0016 EA Erect Precast Wall Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	580.62	464.50
03 41 19 00-0017 EA Erect Precast Wall Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	623.49	498.82
03 41 19 00-0018 EA Erect Precast Wall Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane.....	678.11	542.44
03 41 19 00-0019 EA Erect Precast Wall Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	737.30	589.79
03 41 19 00-0020 EA Erect Precast Wall Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	814.91	651.98
03 41 19 00-0021 EA Erect Precast Wall Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	901.94	721.52
03 41 19 00-0022 EA Erect Precast Wall Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,020.89	816.75
03 41 19 00-0023 EA Erect Precast Wall Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,161.26	929.00
03 41 19 00-0024 EA Erect Precast Wall Panel 35-40 Ton/Piece 23' Maximum Radius With 90 Ton Crane.....	1,346.38	1,077.12

**03 41 19 00-0025 Material Cost** (03 41 19 00-0001)

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.

03 41 19 00-0026 SF 4" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	41.76	
For 3,500 PSI Concrete, Add	0.84	
For 4,000 PSI Concrete, Add	1.25	
For 4,500 PSI Concrete, Add	1.67	
For 5,000 PSI Concrete, Add	2.51	
For White Facing, Add	8.35	
For Solid White Through Thickness, Add	8.35	
For Broken Rib Finish, Add	4.18	
For Fluted Surface, Add	4.18	
For Exposed Aggregate, Add	8.35	
For Sandblasting Of Surface, Add	4.18	
For 2" Polystyrene Insulation, Add	2.15	
03 41 19 00-0027 SF 5" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	51.37	
For 3,500 PSI Concrete, Add	1.03	
For 4,000 PSI Concrete, Add	1.54	
For 4,500 PSI Concrete, Add	2.05	
For 5,000 PSI Concrete, Add	3.08	
For White Facing, Add	10.27	
For Solid White Through Thickness, Add	10.27	
For Broken Rib Finish, Add	5.14	
For Fluted Surface, Add	5.14	
For Exposed Aggregate, Add	10.27	
For Sandblasting Of Surface, Add	5.14	
For 2" Polystyrene Insulation, Add	2.15	
03 41 19 00-0028 SF 6" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	61.81	
For 3,500 PSI Concrete, Add	1.24	
For 4,000 PSI Concrete, Add	1.85	
For 4,500 PSI Concrete, Add	2.47	
For 5,000 PSI Concrete, Add	3.71	
For White Facing, Add	12.36	
For Solid White Through Thickness, Add	12.36	
For Broken Rib Finish, Add	6.18	
For Fluted Surface, Add	6.18	
For Exposed Aggregate, Add	12.36	
For Sandblasting Of Surface, Add	6.18	
For 2" Polystyrene Insulation, Add	2.15	
03 41 19 00-0029 SF 8" Thick 3,000 PSI Concrete, Precast Wall Panel, Ready To Erect.....	81.44	
For 3,500 PSI Concrete, Add	1.63	
For 4,000 PSI Concrete, Add	2.44	
For 4,500 PSI Concrete, Add	3.26	
For 5,000 PSI Concrete, Add	4.89	
For White Facing, Add	16.29	
For Solid White Through Thickness, Add	16.29	
For Broken Rib Finish, Add	8.14	
For Fluted Surface, Add	8.14	
For Exposed Aggregate, Add	16.29	
For Sandblasting Of Surface, Add	8.14	
For 2" Polystyrene Insulation, Add	2.15	

**03 41 19 00-0030 Partition Panels** (03 41 19)**03 41 19 00-0031 Erection Costs Using 20 Ton Hydraulic Crane** (03 41 19 00-0030)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 19 00-0032 EA Erect Precast Partition Wall 0-1 Ton/Piece 69' Maximum Radius With 20 Ton Crane.....	291.50	233.16
03 41 19 00-0033 EA Erect Precast Partition Wall 1-2 Ton/Piece 50' Maximum Radius With 20 Ton Crane.....	324.05	259.26
03 41 19 00-0034 EA Erect Precast Partition Wall 2-3 Ton/Piece 41' Maximum Radius With 20 Ton Crane.....	364.77	291.81
03 41 19 00-0035 EA Erect Precast Partition Wall 3-4 Ton/Piece 33' Maximum Radius With 20 Ton Crane.....	417.21	333.77
03 41 19 00-0036 EA Erect Precast Partition Wall 4-5 Ton/Piece 30' Maximum Radius With 20 Ton Crane.....	448.01	358.45
03 41 19 00-0037 EA Erect Precast Partition Wall 5-6 Ton/Piece 26' Maximum Radius With 20 Ton Crane.....	487.26	389.80
03 41 19 00-0038 EA Erect Precast Partition Wall 6-7 Ton/Piece 23' Maximum Radius With 20 Ton Crane.....	529.79	423.89
03 41 19 00-0039 EA Erect Precast Partition Wall 7-8 Ton/Piece 20' Maximum Radius With 20 Ton Crane.....	585.56	468.47

**03 41 19 00-0040 Erection Costs Using 50 Ton Hydraulic Crane** (03 41 19 00-0030)

Note: Includes handling, hoisting in place, alignment, bracing and permanent connections. Excludes grouting or caulking of joints.



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Precast Concrete</b>	<b>03 40</b>	
<b>Precast Structural Concrete</b>	<b>03 41</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41	19 00-0041	EA	Erect Precast Partition Wall 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	363.83	291.09
03 41	19 00-0042	EA	Erect Precast Partition Wall 1-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane.....	404.46	323.50
03 41	19 00-0043	EA	Erect Precast Partition Wall 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	455.29	364.25
03 41	19 00-0044	EA	Erect Precast Partition Wall 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane.....	520.73	416.59
03 41	19 00-0045	EA	Erect Precast Partition Wall 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	559.17	447.31
03 41	19 00-0046	EA	Erect Precast Partition Wall 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane.....	608.16	486.49
03 41	19 00-0047	EA	Erect Precast Partition Wall 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	661.24	529.06
03 41	19 00-0048	EA	Erect Precast Partition Wall 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane.....	730.85	584.65
03 41	19 00-0049	EA	Erect Precast Partition Wall 8-10 Ton/Piece 31' Maximum Radius With 50 Ton Crane.....	808.90	647.14
03 41	19 00-0050	EA	Erect Precast Partition Wall 10-12 Ton/Piece 26' Maximum Radius With 50 Ton Crane.....	915.57	732.41
03 41	19 00-0051	EA	Erect Precast Partition Wall 12-14 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	1,041.46	833.17
03 41	19 00-0052	EA	Erect Precast Partition Wall 14-16 Ton/Piece 21' Maximum Radius With 50 Ton Crane.....	1,207.49	965.95

**03 41 19 00-0053 Material Cost** (03 41 19 00-0030)

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast plant operations.

03 41	19 00-0054	SF	4" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	39.68	
			<i>For 4,000 PSI Concrete, Add</i>	1.19	
			<i>For 4,500 PSI Concrete, Add</i>	1.59	
			<i>For 5,000 PSI Concrete, Add</i>	2.38	
			<i>For White Facing, Add</i>	7.94	
			<i>For Solid White Through Thickness, Add</i>	7.94	
			<i>For Broken Rib Finish, Add</i>	3.97	
			<i>For Fluted Surface, Add</i>	3.97	
			<i>For Exposed Aggregate, Add</i>	7.94	
			<i>For Sandblasting Of Surface, Add</i>	3.97	
03 41	19 00-0055	SF	5" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	48.86	
			<i>For 4,000 PSI Concrete, Add</i>	1.47	
			<i>For 4,500 PSI Concrete, Add</i>	1.95	
			<i>For 5,000 PSI Concrete, Add</i>	2.93	
			<i>For White Facing, Add</i>	9.77	
			<i>For Solid White Through Thickness, Add</i>	9.77	
			<i>For Broken Rib Finish, Add</i>	4.89	
			<i>For Fluted Surface, Add</i>	4.89	
			<i>For Exposed Aggregate, Add</i>	9.77	
			<i>For Sandblasting Of Surface, Add</i>	4.89	
03 41	19 00-0056	SF	6" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	58.47	
			<i>For 4,000 PSI Concrete, Add</i>	1.75	
			<i>For 4,500 PSI Concrete, Add</i>	2.34	
			<i>For 5,000 PSI Concrete, Add</i>	3.51	
			<i>For White Facing, Add</i>	11.69	
			<i>For Solid White Through Thickness, Add</i>	11.69	
			<i>For Broken Rib Finish, Add</i>	5.85	
			<i>For Fluted Surface, Add</i>	5.85	
			<i>For Exposed Aggregate, Add</i>	11.69	
			<i>For Sandblasting Of Surface, Add</i>	5.85	
03 41	19 00-0057	SF	8" Thick 3,000 PSI Concrete, Precast Partition Wall, Ready To Erect.....	77.27	
			<i>For 4,000 PSI Concrete, Add</i>	2.32	
			<i>For 4,500 PSI Concrete, Add</i>	3.09	
			<i>For 5,000 PSI Concrete, Add</i>	4.64	
			<i>For White Facing, Add</i>	15.45	
			<i>For Solid White Through Thickness, Add</i>	15.45	
			<i>For Broken Rib Finish, Add</i>	7.73	
			<i>For Fluted Surface, Add</i>	7.73	
			<i>For Exposed Aggregate, Add</i>	15.45	
			<i>For Sandblasting Of Surface, Add</i>	7.73	

**03 41 19 00-0058 Cladding Panels** (03 41 19)

**03 41 19 00-0059 Erection Costs Using 50 Ton Hydraulic Crane** (03 41 19 00-0058)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41	19 00-0060	EA	Erect Precast Cladding 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	383.95	307.10
03 41	19 00-0061	EA	Erect Precast Cladding 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	429.47	343.55
03 41	19 00-0062	EA	Erect Precast Cladding 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	487.23	389.77
03 41	19 00-0063	EA	Erect Precast Cladding 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	520.73	416.59
03 41	19 00-0064	EA	Erect Precast Cladding 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	559.17	447.31
03 41	19 00-0065	EA	Erect Precast Cladding 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	608.16	486.49
03 41	19 00-0066	EA	Erect Precast Cladding 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	661.24	529.06
03 41	19 00-0067	EA	Erect Precast Cladding 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	730.85	584.65

**03 41 19 00-0068 Erection Costs Using 90 Ton Crawler Crane** (03 41 19 00-0058)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41	19 00-0069	EA	Erect Precast Cladding 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	428.11	342.44
03 41	19 00-0070	EA	Erect Precast Cladding 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	478.86	383.09
03 41	19 00-0071	EA	Erect Precast Cladding 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	543.27	434.57
03 41	19 00-0072	EA	Erect Precast Cladding 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	580.62	464.50
03 41	19 00-0073	EA	Erect Precast Cladding 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	623.49	498.82
03 41	19 00-0074	EA	Erect Precast Cladding 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	678.11	542.44
03 41	19 00-0075	EA	Erect Precast Cladding 11-13 Ton/Piece 90' Maximum Radius With 90 Ton Crane.....	737.30	589.79

**03 Concrete****03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 19 00-0076	EA		Erect Precast Cladding 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	814.91	651.98
03 41 19 00-0077	EA		Erect Precast Cladding 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	901.94	721.52
03 41 19 00-0078	EA		Erect Precast Cladding 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	1,020.89	816.75
03 41 19 00-0079	EA		Erect Precast Cladding 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,161.26	929.00
03 41 19 00-0080	EA		Erect Precast Cladding 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane.....	1,346.38	1,077.12
<b>03 41 19 00-0081</b>			<b>Material Cost</b> <small>(03 41 19 00-0058)</small>		
			Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
03 41 19 00-0082	SF		4" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	39.68	
			<i>For 3,500 PSI Concrete, Add</i>	0.79	
			<i>For 4,000 PSI Concrete, Add</i>	1.19	
			<i>For 4,500 PSI Concrete, Add</i>	1.59	
			<i>For 5,000 PSI Concrete, Add</i>	2.38	
			<i>For White Facing, Add</i>	7.94	
			<i>For Solid White Through Thickness, Add</i>	7.94	
			<i>For Broken Rib Finish, Add</i>	3.97	
			<i>For Fluted Surface, Add</i>	3.97	
			<i>For Exposed Aggregate, Add</i>	7.94	
			<i>For Sandblasting Of Surface, Add</i>	3.97	
03 41 19 00-0083	SF		5" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	48.86	
			<i>For 3,500 PSI Concrete, Add</i>	0.98	
			<i>For 4,000 PSI Concrete, Add</i>	1.47	
			<i>For 4,500 PSI Concrete, Add</i>	1.95	
			<i>For 5,000 PSI Concrete, Add</i>	2.93	
			<i>For White Facing, Add</i>	9.77	
			<i>For Solid White Through Thickness, Add</i>	9.77	
			<i>For Broken Rib Finish, Add</i>	4.89	
			<i>For Fluted Surface, Add</i>	4.89	
			<i>For Exposed Aggregate, Add</i>	9.77	
			<i>For Sandblasting Of Surface, Add</i>	4.89	
03 41 19 00-0084	SF		6" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	58.47	
			<i>For 3,500 PSI Concrete, Add</i>	1.17	
			<i>For 4,000 PSI Concrete, Add</i>	1.75	
			<i>For 4,500 PSI Concrete, Add</i>	2.34	
			<i>For 5,000 PSI Concrete, Add</i>	3.51	
			<i>For White Facing, Add</i>	11.69	
			<i>For Solid White Through Thickness, Add</i>	11.69	
			<i>For Broken Rib Finish, Add</i>	5.85	
			<i>For Fluted Surface, Add</i>	5.85	
			<i>For Exposed Aggregate, Add</i>	11.69	
			<i>For Sandblasting Of Surface, Add</i>	5.85	
03 41 19 00-0085	SF		8" Thick 3,000 PSI Concrete, Precast Cladding Panel, Ready To Erect.....	77.27	
			<i>For 3,500 PSI Concrete, Add</i>	1.55	
			<i>For 4,000 PSI Concrete, Add</i>	2.32	
			<i>For 4,500 PSI Concrete, Add</i>	3.09	
			<i>For 5,000 PSI Concrete, Add</i>	4.64	
			<i>For White Facing, Add</i>	15.45	
			<i>For Solid White Through Thickness, Add</i>	15.45	
			<i>For Broken Rib Finish, Add</i>	7.73	
			<i>For Fluted Surface, Add</i>	7.73	
			<i>For Exposed Aggregate, Add</i>	15.45	
			<i>For Sandblasting Of Surface, Add</i>	7.73	
<b>03 41 19 00-0086</b>			<b>Sandwich Panel</b> <small>(03 41 19)</small>		
<b>03 41 19 00-0087</b>			<b>Erection Costs Using 50 Ton Hydraulic Crane</b> <small>(03 41 19 00-0086)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0088	EA		Erect Precast Sandwich Panel 0-1 Ton/Piece 100' Maximum Radius With 50 Ton Crane.....	383.95	307.10
03 41 19 00-0089	EA		Erect Precast Sandwich Panel 1-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane.....	429.47	343.55
03 41 19 00-0090	EA		Erect Precast Sandwich Panel 3-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane.....	487.23	389.77
03 41 19 00-0091	EA		Erect Precast Sandwich Panel 5-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane.....	520.73	416.59
03 41 19 00-0092	EA		Erect Precast Sandwich Panel 7-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane.....	559.17	447.31
03 41 19 00-0093	EA		Erect Precast Sandwich Panel 9-11 Ton/Piece 30' Maximum Radius With 50 Ton Crane.....	608.16	486.49
03 41 19 00-0094	EA		Erect Precast Sandwich Panel 11-13 Ton/Piece 25' Maximum Radius With 50 Ton Crane.....	661.24	529.06
03 41 19 00-0095	EA		Erect Precast Sandwich Panel 13-15 Ton/Piece 23' Maximum Radius With 50 Ton Crane.....	730.85	584.65
<b>03 41 19 00-0096</b>			<b>Erection Costs Using 90 Ton Crawler Crane</b> <small>(03 41 19 00-0086)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 19 00-0097	EA		Erect Precast Sandwich Panel 0-1 Ton/Piece 180' Maximum Radius With 90 Ton Crane.....	386.55	309.18
03 41 19 00-0098	EA		Erect Precast Sandwich Panel 1-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane.....	432.38	345.88
03 41 19 00-0099	EA		Erect Precast Sandwich Panel 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane.....	490.53	392.41
03 41 19 00-0100	EA		Erect Precast Sandwich Panel 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane.....	524.25	419.41
03 41 19 00-0101	EA		Erect Precast Sandwich Panel 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane.....	562.96	450.34
03 41 19 00-0102	EA		Erect Precast Sandwich Panel 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane.....	612.27	489.79
03 41 19 00-0103	EA		Erect Precast Sandwich Panel 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane.....	665.72	532.65
03 41 19 00-0104	EA		Erect Precast Sandwich Panel 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane.....	735.80	588.61
03 41 19 00-0105	EA		Erect Precast Sandwich Panel 15-20 Ton/Piece 36' Maximum Radius With 90 Ton Crane.....	814.38	651.53
03 41 19 00-0106	EA		Erect Precast Sandwich Panel 20-25 Ton/Piece 31' Maximum Radius With 90 Ton Crane.....	921.77	737.37
03 41 19 00-0107	EA		Erect Precast Sandwich Panel 25-30 Ton/Piece 26' Maximum Radius With 90 Ton Crane.....	1,048.52	838.81



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Precast Concrete</b>	<b>03 40</b>	
<b>Precast Structural Concrete</b>	<b>03 41</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 41 19 00-0108	EA	Erect Precast Sandwich Panel 30-35 Ton/Piece 25' Maximum Radius With 90 Ton Crane .....	1,215.67	972.50
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**03 41 19 00-0109 Material Cost** (03 41 19 00-0086)

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations. Sandwich panel consists of 2.5" cladding panel, 2" fiber board insulation and the structural panel as defined.

03 41 19 00-0110	SF	4" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect .....	54.29	
		<i>For 3,500 PSI Concrete, Add</i>	1.09	
		<i>For 4,000 PSI Concrete, Add</i>	1.63	
		<i>For 4,500 PSI Concrete, Add</i>	2.17	
		<i>For 5,000 PSI Concrete, Add</i>	3.26	
		<i>For White Facing, Add</i>	10.86	
		<i>For Solid White Through Thickness, Add</i>	10.86	
		<i>For Broken Rib Finish, Add</i>	5.43	
		<i>For Fluted Surface, Add</i>	5.43	
		<i>For Exposed Aggregate, Add</i>	10.86	
		<i>For Sandblasting Of Surface, Add</i>	5.43	
03 41 19 00-0111	SF	5" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect .....	63.90	
		<i>For 3,500 PSI Concrete, Add</i>	1.28	
		<i>For 4,000 PSI Concrete, Add</i>	1.92	
		<i>For 4,500 PSI Concrete, Add</i>	2.56	
		<i>For 5,000 PSI Concrete, Add</i>	3.83	
		<i>For White Facing, Add</i>	12.78	
		<i>For Solid White Through Thickness, Add</i>	12.78	
		<i>For Broken Rib Finish, Add</i>	6.39	
		<i>For Fluted Surface, Add</i>	6.39	
		<i>For Exposed Aggregate, Add</i>	12.78	
		<i>For Sandblasting Of Surface, Add</i>	6.39	
03 41 19 00-0112	SF	6" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect .....	74.34	
		<i>For 3,500 PSI Concrete, Add</i>	1.49	
		<i>For 4,000 PSI Concrete, Add</i>	2.23	
		<i>For 4,500 PSI Concrete, Add</i>	2.97	
		<i>For 5,000 PSI Concrete, Add</i>	4.46	
		<i>For White Facing, Add</i>	14.87	
		<i>For Solid White Through Thickness, Add</i>	14.87	
		<i>For Broken Rib Finish, Add</i>	7.43	
		<i>For Fluted Surface, Add</i>	7.43	
		<i>For Exposed Aggregate, Add</i>	14.87	
		<i>For Sandblasting Of Surface, Add</i>	7.43	
03 41 19 00-0113	SF	8" Thick 3,000 PSI Concrete, Precast Sandwich Panel, Ready To Erect .....	93.97	
		<i>For 3,500 PSI Concrete, Add</i>	1.88	
		<i>For 4,000 PSI Concrete, Add</i>	2.82	
		<i>For 4,500 PSI Concrete, Add</i>	3.76	
		<i>For 5,000 PSI Concrete, Add</i>	5.64	
		<i>For White Facing, Add</i>	18.79	
		<i>For Solid White Through Thickness, Add</i>	18.79	
		<i>For Broken Rib Finish, Add</i>	9.40	
		<i>For Fluted Surface, Add</i>	9.40	
		<i>For Exposed Aggregate, Add</i>	18.79	
		<i>For Sandblasting Of Surface, Add</i>	9.40	

**03 41 23 Precast Concrete Stairs** (03 41)

**03 41 23 00-0001 Erection Costs Using A 50 Ton Hydraulic Crane** (03 41 23)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 23 00-0002	EA	Erect Precast Stairs, 0-2 Ton/Piece 82' Maximum Radius With 50 Ton Crane .....	404.46	323.50
03 41 23 00-0003	EA	Erect Precast Stairs, 2-3 Ton/Piece 65' Maximum Radius With 50 Ton Crane .....	429.47	343.55
03 41 23 00-0004	EA	Erect Precast Stairs, 3-4 Ton/Piece 57' Maximum Radius With 50 Ton Crane .....	455.29	364.25
03 41 23 00-0005	EA	Erect Precast Stairs, 4-5 Ton/Piece 50' Maximum Radius With 50 Ton Crane .....	487.23	389.77
03 41 23 00-0006	EA	Erect Precast Stairs, 5-6 Ton/Piece 44' Maximum Radius With 50 Ton Crane .....	520.73	416.59
03 41 23 00-0007	EA	Erect Precast Stairs, 6-7 Ton/Piece 40' Maximum Radius With 50 Ton Crane .....	559.17	447.31
03 41 23 00-0008	EA	Erect Precast Stairs, 7-8 Ton/Piece 36' Maximum Radius With 50 Ton Crane .....	608.16	486.49
03 41 23 00-0009	EA	Erect Precast Stairs, 8-9 Ton/Piece 33' Maximum Radius With 50 Ton Crane .....	661.24	529.06

**03 41 23 00-0010 Erection Costs Using A 90 Ton Crawler Crane** (03 41 23)

Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.

03 41 23 00-0011	EA	Erect Precast Stairs, 0-2 Ton/Piece 151' Maximum Radius With 90 Ton Crane .....	404.46	323.50
03 41 23 00-0012	EA	Erect Precast Stairs, 2-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane .....	429.47	343.55
03 41 23 00-0013	EA	Erect Precast Stairs, 3-4 Ton/Piece 105' Maximum Radius With 90 Ton Crane .....	455.29	364.25
03 41 23 00-0014	EA	Erect Precast Stairs, 4-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane .....	487.23	389.77
03 41 23 00-0015	EA	Erect Precast Stairs, 5-6 Ton/Piece 82' Maximum Radius With 90 Ton Crane .....	520.73	416.59
03 41 23 00-0016	EA	Erect Precast Stairs, 6-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane .....	559.17	447.31
03 41 23 00-0017	EA	Erect Precast Stairs, 7-8 Ton/Piece 70' Maximum Radius With 90 Ton Crane .....	608.16	486.49
03 41 23 00-0018	EA	Erect Precast Stairs, 8-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane .....	661.24	529.06

**03 41 23 00-0019 Material Cost** (03 41 23)

Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork and precast operations.

**03 Concrete****03 40 Precast Concrete****03 41 Precast Structural Concrete**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 23 00-0020 EA 3' Wide With 10-1/2" Depth Treads Precast Concrete Stair Unit, Per Riser.....	837.02	
For 3,500 PSI Concrete, Add	109.23	
For 4,000 PSI Concrete, Add	205.24	
For 4,500 PSI Concrete, Add	301.66	
For 5,000 PSI Concrete, Add	410.39	
<b>03 41 26 Precast Concrete Structural Sections (03 41)</b>		
<b>03 41 26 00-0001 Precast Beams, Girder And Joists (03 41 26)</b>		
<b>03 41 26 00-0002 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0001)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0003 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 89' Maximum Radius, 90 Ton Crane .....	507.65	406.18
03 41 26 00-0004 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 60' Maximum Radius, 90 Ton Crane .....	543.27	434.57
03 41 26 00-0005 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 43' Maximum Radius, 90 Ton Crane .....	580.62	464.50
03 41 26 00-0006 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 36' Maximum Radius, 90 Ton Crane .....	623.49	498.82
<b>03 41 26 00-0007 Erection Costs Using A 125 Ton Crawler Crane (03 41 26 00-0001)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0008 EA Erect Precast Structural Sections, 0-5 Ton/Piece Beam, Girder, Joist; 110' Maximum Radius, 125 Ton Crane .....	643.25	514.56
03 41 26 00-0009 EA Erect Precast Structural Sections, 5-10 Ton/Piece Beam, Girder, Joist; 75' Maximum Radius, 125 Ton Crane .....	688.39	550.76
03 41 26 00-0010 EA Erect Precast Structural Sections, 10-15 Ton/Piece Beam, Girder, Joist; 55' Maximum Radius, 125 Ton Crane .....	735.72	588.58
03 41 26 00-0011 EA Erect Precast Structural Sections, 15-20 Ton/Piece Beam, Girder, Joist; 50' Maximum Radius, 125 Ton Crane .....	790.03	631.98
03 41 26 00-0012 EA Erect Precast Structural Sections, 20-25 Ton/Piece Beam, Girder, Joist; 40' Maximum Radius, 125 Ton Crane .....	859.24	687.45
03 41 26 00-0013 EA Erect Precast Structural Sections, 25-30 Ton/Piece Beam, Girder, Joist; 33' Maximum Radius, 125 Ton Crane .....	934.25	747.34
03 41 26 00-0014 EA Erect Precast Structural Sections, 30-35 Ton/Piece Beam, Girder, Joist; 30' Maximum Radius, 125 Ton Crane .....	1,032.59	826.07
03 41 26 00-0015 EA Erect Precast Structural Sections, 35-40 Ton/Piece Beam, Girder, Joist; 28' Maximum Radius, 125 Ton Crane .....	1,142.86	914.36
<b>03 41 26 00-0016 Material Cost (03 41 26 00-0001)</b>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast plant operations.		
<b>03 41 26 00-0017 1,000 LB/LF Live Load (03 41 26 00-0016)</b>		
03 41 26 00-0018 LF Precast Structural Sections, 1,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	167.38	
For 3,500 PSI Concrete, Add	4.57	
For 4,000 PSI Concrete, Add	6.86	
For 4,500 PSI Concrete, Add	9.14	
For 5,000 PSI Concrete, Add	13.73	
03 41 26 00-0019 LF Precast Structural Sections, 1,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	209.22	
For 3,500 PSI Concrete, Add	5.71	
For 4,000 PSI Concrete, Add	8.58	
For 4,500 PSI Concrete, Add	11.42	
For 5,000 PSI Concrete, Add	17.16	
03 41 26 00-0020 LF Precast Structural Sections, 1,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	251.07	
For 3,500 PSI Concrete, Add	6.85	
For 4,000 PSI Concrete, Add	10.29	
For 4,500 PSI Concrete, Add	13.71	
For 5,000 PSI Concrete, Add	20.59	
<b>03 41 26 00-0021 3,000 LB/LF Live Load (03 41 26 00-0016)</b>		
03 41 26 00-0022 LF Precast Structural Sections, 3,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	209.22	
For 3,500 PSI Concrete, Add	5.71	
For 4,000 PSI Concrete, Add	8.58	
For 4,500 PSI Concrete, Add	11.42	
For 5,000 PSI Concrete, Add	17.16	
03 41 26 00-0023 LF Precast Structural Sections, 3,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	251.07	
For 3,500 PSI Concrete, Add	6.85	
For 4,000 PSI Concrete, Add	10.29	
For 4,500 PSI Concrete, Add	13.71	
For 5,000 PSI Concrete, Add	20.59	
03 41 26 00-0024 LF Precast Structural Sections, 3,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	334.76	
For 3,500 PSI Concrete, Add	9.14	
For 4,000 PSI Concrete, Add	13.73	
For 4,500 PSI Concrete, Add	18.28	
For 5,000 PSI Concrete, Add	27.45	
<b>03 41 26 00-0025 5,000 LB/LF Live Load (03 41 26 00-0016)</b>		
03 41 26 00-0026 LF Precast Structural Sections, 5,000 LB/LF, 15' Span Live Load, Span, 3,000 PSI.....	292.91	
For 3,500 PSI Concrete, Add	8.00	
For 4,000 PSI Concrete, Add	12.01	
For 4,500 PSI Concrete, Add	15.99	
For 5,000 PSI Concrete, Add	24.02	
03 41 26 00-0027 LF Precast Structural Sections, 5,000 LB/LF, 20' Span Live Load, Span, 3,000 PSI.....	334.76	
For 3,500 PSI Concrete, Add	9.14	
For 4,000 PSI Concrete, Add	13.73	
For 4,500 PSI Concrete, Add	18.28	
For 5,000 PSI Concrete, Add	27.45	



	<b>Concrete</b>	<b>03</b>	<b>03</b>
	Precast Concrete	03 40	
	Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 26 00-0028 LF Precast Structural Sections, 5,000 LB/LF, 30' Span Live Load, Span, 3,000 PSI.....	418.45	
<i>For 3,500 PSI Concrete, Add</i>	11.42	
<i>For 4,000 PSI Concrete, Add</i>	17.16	
<i>For 4,500 PSI Concrete, Add</i>	22.85	
<i>For 5,000 PSI Concrete, Add</i>	34.31	
<b>03 41 26 00-0029 Precast Concrete Columns (03 41 26)</b>		
<b>03 41 26 00-0030 Erection Costs Using A 90 Ton Crawler Crane (03 41 26 00-0029)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting or caulking joints.		
03 41 26 00-0031 EA Erect Precast Concrete Columns, 0-3 Ton/Piece 121' Maximum Radius With 90 Ton Crane .....	293.29	234.61
03 41 26 00-0032 EA Erect Precast Concrete Columns, 3-5 Ton/Piece 89' Maximum Radius With 90 Ton Crane .....	311.82	249.41
03 41 26 00-0033 EA Erect Precast Concrete Columns, 5-7 Ton/Piece 75' Maximum Radius With 90 Ton Crane .....	334.19	267.38
03 41 26 00-0034 EA Erect Precast Concrete Columns, 7-9 Ton/Piece 65' Maximum Radius With 90 Ton Crane .....	358.46	286.77
03 41 26 00-0035 EA Erect Precast Concrete Columns, 9-11 Ton/Piece 55' Maximum Radius With 90 Ton Crane .....	386.55	309.18
03 41 26 00-0036 EA Erect Precast Concrete Columns, 11-13 Ton/Piece 50' Maximum Radius With 90 Ton Crane .....	419.41	335.53
03 41 26 00-0037 EA Erect Precast Concrete Columns, 13-15 Ton/Piece 43' Maximum Radius With 90 Ton Crane .....	458.37	366.72
<b>03 41 26 00-0038 Material Cost (03 41 26 00-0029)</b>		
Note: Includes cost of 3000 PSI concrete, reinforcing steel, imbedded items, formwork, and precast operations.		
<b>03 41 26 00-0039 12" x 12" Column, Square, Tied (03 41 26 00-0038)</b>		
03 41 26 00-0040 CY 12" x 12" Precast Column, Tied, Average Reinforced 351 LB/CY .....	866.32	
<i>For 3,500 PSI Concrete, Add</i>	64.97	
<i>For 4,000 PSI Concrete, Add</i>	122.15	
<i>For 4,500 PSI Concrete, Add</i>	180.19	
<i>For 5,000 PSI Concrete, Add</i>	245.17	
<b>03 41 26 00-0041 16" x 16" Column, Square, Tied (03 41 26 00-0038)</b>		
03 41 26 00-0042 CY 16" x 16" Precast Column, Tied, Average Reinforced 368 LB/CY .....	887.72	
<i>For 3,500 PSI Concrete, Add</i>	66.58	
<i>For 4,000 PSI Concrete, Add</i>	125.17	
<i>For 4,500 PSI Concrete, Add</i>	184.65	
<i>For 5,000 PSI Concrete, Add</i>	251.22	
<b>03 41 26 00-0043 20" x 20" Column, Square, Tied (03 41 26 00-0038)</b>		
03 41 26 00-0044 CY 20" x 20" Precast Column, Tied, Average Reinforced 357 LB/CY .....	889.43	
<i>For 3,500 PSI Concrete, Add</i>	66.71	
<i>For 4,000 PSI Concrete, Add</i>	125.41	
<i>For 4,500 PSI Concrete, Add</i>	185.00	
<i>For 5,000 PSI Concrete, Add</i>	251.71	
<b>03 41 26 00-0045 24" x 24" Column, Square, Tied (03 41 26 00-0038)</b>		
03 41 26 00-0046 CY 24" x 24" Precast Column, Tied, Average Reinforced 365 LB/CY .....	889.43	
<i>For 3,500 PSI Concrete, Add</i>	66.71	
<i>For 4,000 PSI Concrete, Add</i>	125.41	
<i>For 4,500 PSI Concrete, Add</i>	185.00	
<i>For 5,000 PSI Concrete, Add</i>	251.71	
<b>03 41 26 00-0047 28" x 28" Column, Square, Tied (03 41 26 00-0038)</b>		
03 41 26 00-0048 CY 28" x 28" Precast Column, Tied, Average Reinforced 347 LB/CY .....	889.43	
<i>For 3,500 PSI Concrete, Add</i>	66.71	
<i>For 4,000 PSI Concrete, Add</i>	125.41	
<i>For 4,500 PSI Concrete, Add</i>	185.00	
<i>For 5,000 PSI Concrete, Add</i>	251.71	
<b>03 41 26 00-0049 32" x 32" Column, Square, Tied (03 41 26 00-0038)</b>		
03 41 26 00-0050 CY 32" x 32" Precast Column, Tied, Average Reinforced 351 LB/CY .....	887.72	
<i>For 3,500 PSI Concrete, Add</i>	66.58	
<i>For 4,000 PSI Concrete, Add</i>	125.17	
<i>For 4,500 PSI Concrete, Add</i>	184.65	
<i>For 5,000 PSI Concrete, Add</i>	251.22	
<b>03 41 26 00-0051 36" x 36" Column, Square, Tied (03 41 26 00-0038)</b>		
03 41 26 00-0052 CY 36" x 36" Precast Column, Tied, Average Reinforced 278 LB/CY .....	889.43	
<i>For 3,500 PSI Concrete, Add</i>	66.71	
<i>For 4,000 PSI Concrete, Add</i>	125.41	
<i>For 4,500 PSI Concrete, Add</i>	185.00	
<i>For 5,000 PSI Concrete, Add</i>	251.71	
<b>03 41 33 Precast Structural Pretensioned Concrete (03 41)</b>		
<b>03 41 33 00-0001 Slabs, Roof And Floor Members (03 41 33)</b>		

<b>03</b>	<b>Concrete</b>
<b>03 40</b>	<b>Precast Concrete</b>
<b>03 41</b>	<b>Precast Structural Concrete</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 41 33 00-0002 SF 4" Thick Precast Prestressed Slab, 12-16' Span Roof/Floor.....	17.78	2.37
03 41 33 00-0003 SF 6" Thick Precast Prestressed Slab, 16-25' Span Roof/Floor.....	22.14	2.37
03 41 33 00-0004 SF 8" Thick Precast Prestressed Slab, 25-32' Span Roof/Floor.....	26.51	2.48
03 41 33 00-0005 SF 10" Thick Precast Prestressed Slab, 32-40' Span Roof/Floor.....	30.90	2.61
<b>03 41 33 00-0006 Tee Members (03 41 33)</b>		
<b>03 41 33 00-0007 Multiple Tee, Roof And Floor (03 41 33 00-0006)</b>		
03 41 33 00-0008 SF Prestressed Multiple Tee, Roof And Floor Members.....	39.86	3.08
<b>03 41 33 00-0009 Double Tee Wall Member (03 41 33 00-0006)</b>		
03 41 33 00-0010 SF Prestressed Double Tee Wall Members Precast Concrete, <40' Span.....	56.55	8.41
<b>03 41 33 00-0011 Single Tee, Short Span, Roof Members (03 41 33 00-0006)</b>		
03 41 33 00-0012 SF Prestressed Single Tee, Short Span Roof Precast Concrete Members, <40' Span.....	46.92	5.09
<b>03 41 33 00-0013 Single Tee, Long Span, Roof Members (03 41 33 00-0006)</b>		
03 41 33 00-0014 SF Prestressed Single Tee, Long Span Roof Precast Concrete Members, <40' Span.....	56.23	4.38
<b>03 41 33 00-0015 Prestressed Concrete Items (03 41 33)</b>		
<b>03 41 33 00-0016 Prestressed Quad Tee (03 41 33 00-0015)</b>		
03 41 33 00-0017 SF Tees, Prestressed Quad Tee, Short Spans, Roof.....	28.81	0.94
03 41 33 00-0018 SF Tees, Prestressed Quad Tee, Short Spans, Floor.....	30.07	0.94
<b>03 41 33 00-0019 Prestressed Double Tee (03 41 33 00-0015)</b>		
03 41 33 00-0020 SF Tees, Double Tee, Floor Members, 60' Span.....	47.88	0.83
03 41 33 00-0021 SF Tees, Double Tee, Floor Members, 80' Span.....	65.94	0.83
03 41 33 00-0022 SF Tees, Double Tee, Roof Members, 30' Span.....	32.72	1.42
03 41 33 00-0023 SF Tees, Double Tee, Roof Members, 50' Span.....	50.63	0.94
03 41 33 00-0024 SF Tees, Double Tee, Wall Members, Up To 55' High.....	35.45	1.89
<b>03 41 33 00-0025 Prestressed Single Tee (03 41 33 00-0015)</b>		
03 41 33 00-0026 SF Tees, Single Tee Roof Members, 40' Span.....	56.71	2.14
03 41 33 00-0027 SF Tees, Single Tee Roof Members, 80' Span.....	65.65	1.30
03 41 33 00-0028 SF Tees, Single Tee Roof Members, 100' Span.....	86.84	1.18
03 41 33 00-0029 SF Tees, Single Tee Roof Members, 120' Span.....	91.44	1.18
<b>03 41 33 00-0030 Prestressed Double Tee Floor Members (03 41 33 00-0015)</b>		
03 41 33 00-0031 EA Tees, Double Tees, Floor Members, Lightweight, 20" X 8' Wide, 45'.....	14,655.36	340.89
03 41 33 00-0032 EA Tees, Double Tees, Floor Members, Lightweight, 24" X 8' Wide, 50'.....	15,958.19	378.77
03 41 33 00-0033 EA Tees, Double Tees, Floor Members, Lightweight, 32" X 10' Wide, 60'.....	26,689.21	426.12
03 41 33 00-0034 EA Tees, Double Tees, Floor Members, Standard Weight, 12" X 8' Wide, 25'.....	5,744.33	310.01
03 41 33 00-0035 EA Tees, Double Tees, Floor Members, Standard Weight, 16" X 8' Wide, 25'.....	7,540.76	340.89
03 41 33 00-0036 EA Tees, Double Tees, Floor Members, Standard Weight, 18" X 8' Wide, 35'.....	9,633.29	340.89
03 41 33 00-0037 EA Tees, Double Tees, Floor Members, Standard Weight, 20" X 8' Wide, 45'.....	10,726.87	378.77
03 41 33 00-0038 EA Tees, Double Tees, Floor Members, Standard Weight, 24" X 8' Wide, 50'.....	13,715.52	426.12
03 41 33 00-0039 EA Tees, Double Tees, Floor Members, Standard Weight, 32" X 10' Wide, 60'.....	24,673.06	487.20
<b>03 41 33 00-0040 Prestressed Double Tee Roof Members (03 41 33 00-0015)</b>		
03 41 33 00-0041 EA Tees, Double Tees, Roof Members, Lightweight, 20" X 8' Wide, 45'.....	11,516.57	340.89
03 41 33 00-0042 EA Tees, Double Tees, Roof Members, Lightweight, 24" X 8' Wide, 50'.....	15,121.18	378.77
03 41 33 00-0043 EA Tees, Double Tees, Roof Members, Lightweight, 32" X 10' Wide, 60'.....	24,805.93	426.12
03 41 33 00-0044 EA Tees, Double Tees, Roof Members, Standard Weight, 12" X 8' Wide, 30'.....	7,711.31	310.01
03 41 33 00-0045 EA Tees, Double Tees, Roof Members, Standard Weight, 16" X 8' Wide, 30'.....	8,126.67	340.89
03 41 33 00-0046 EA Tees, Double Tees, Roof Members, Standard Weight, 18" X 8' Wide, 30'.....	9,005.53	340.89
03 41 33 00-0047 EA Tees, Double Tees, Roof Members, Standard Weight, 20" X 8' Wide, 40'.....	9,262.10	378.77
03 41 33 00-0048 EA Tees, Double Tees, Roof Members, Standard Weight, 24" X 8' Wide, 50'.....	12,250.75	426.12
03 41 33 00-0049 EA Tees, Double Tees, Roof Members, Standard Weight, 32" X 10' Wide, 60'.....	21,115.76	487.20
<b>03 41 33 00-0050 Plant Produced Pretensioned Prestressed Concrete Hollow Core Slab (03 41 33)</b>		
03 41 33 00-0051 SF Hollow Core Slab, 4" Slab, 12' - 16' Spans, Plant Produced Pretensioned Prestressed Concrete.....	30.45	
03 41 33 00-0052 SF Hollow Core Slab, 6" Slab, 16' - 25' Spans, Plant Produced Pretensioned Prestressed Concrete.....	31.69	
03 41 33 00-0053 SF Hollow Core Slab, 8" Slab, 25' - 30' Spans, Plant Produced Pretensioned Prestressed Concrete.....	33.18	
03 41 33 00-0054 SF Hollow Core Slab, 10" Slab, 30' - 35' Spans, Plant Produced Pretensioned Prestressed Concrete.....	34.28	
03 41 33 00-0055 SF Hollow Core Slab, 12" Slab, 35' - 40' Spans, Plant Produced Pretensioned Prestressed Concrete.....	36.65	
<b>03 41 33 00-0056 Double And Single Tees (03 41 33)</b>		





<b>Concrete</b>	<b>03</b>	<b>03</b>
Precast Concrete	03 40	
Precast Structural Concrete	03 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>03 41 33 00-0057</b> Double And Single Tees With 16" Roof And Floor Loading <small>(03 41 33 00-0056)</small>		
03 41 33 00-0058 SF Double Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete.....	36.81	
03 41 33 00-0059 SF Double Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete.....	35.93	
03 41 33 00-0060 SF Double Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete.....	33.93	
03 41 33 00-0061 SF Double Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete.....	36.81	
03 41 33 00-0062 SF Double Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete.....	36.68	
03 41 33 00-0063 SF Single Tee With 16" Roof Loading, 30' Span, Pretensioned Prestressed Concrete.....	56.40	
03 41 33 00-0064 SF Single Tee With 16" Roof Loading, 40' Span, Pretensioned Prestressed Concrete.....	55.14	
03 41 33 00-0065 SF Single Tee With 16" Roof Loading, 45' Span, Pretensioned Prestressed Concrete.....	51.64	
03 41 33 00-0066 SF Single Tee With 16" Floor Loading, 30' Span, Pretensioned Prestressed Concrete.....	56.40	
03 41 33 00-0067 SF Single Tee With 16" Floor Loading, 40' Span, Pretensioned Prestressed Concrete.....	52.88	
<b>03 41 33 00-0068</b> Double And Single Tees With 24" Roof And Floor Loading <small>(03 41 33 00-0056)</small>		
03 41 33 00-0069 SF Double Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete.....	37.94	
03 41 33 00-0070 SF Double Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete.....	37.06	
03 41 33 00-0071 SF Double Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete.....	35.82	
03 41 33 00-0072 SF Double Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete.....	37.94	
03 41 33 00-0073 SF Double Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete.....	36.68	
03 41 33 00-0074 SF Single Tee With 24" Roof Loading, 30' Span, Pretensioned Prestressed Concrete.....	57.90	
03 41 33 00-0075 SF Single Tee With 24" Roof Loading, 40' Span, Pretensioned Prestressed Concrete.....	56.64	
03 41 33 00-0076 SF Single Tee With 24" Roof Loading, 45' Span, Pretensioned Prestressed Concrete.....	54.65	
03 41 33 00-0077 SF Single Tee With 24" Floor Loading, 30' Span, Pretensioned Prestressed Concrete.....	57.90	
03 41 33 00-0078 SF Single Tee With 24" Floor Loading, 40' Span, Pretensioned Prestressed Concrete.....	56.27	
<b>03 41 33 00-0079</b> Double And Single Tees With 32" Roof And Floor Loading <small>(03 41 33 00-0056)</small>		
03 41 33 00-0080 SF Double Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete.....	40.01	
03 41 33 00-0081 SF Double Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete.....	38.74	
03 41 33 00-0082 SF Double Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete.....	37.48	
03 41 33 00-0083 SF Single Tee With 32" Roof Load, 50' Span, Pretensioned Prestressed Concrete.....	61.48	
03 41 33 00-0084 SF Single Tee With 32" Roof Load, 60' Span, Pretensioned Prestressed Concrete.....	59.46	
03 41 33 00-0085 SF Single Tee With 32" Roof Load, 70' Span, Pretensioned Prestressed Concrete.....	57.07	
<b>03 48 Precast Concrete Specialties</b> <small>(03 40)</small>		
<b>03 48 16 Precast Concrete Splash Blocks</b> <small>(03 48)</small>		
<b>03 48 16 00-0001</b> Precast Concrete Splash Blocks <small>(03 48 16)</small>		
03 48 16 00-0002 EA Precast Concrete Splash Blocks, 20" x 12" x 3".....	38.80	3.79
<b>03 48 21 Precast Concrete Handrails</b> <small>(03 48)</small>		
<b>03 48 21 00-0001</b> Installation Cost <small>(03 48 21)</small>		
Note: Includes handling, hoisting into place, alignment, and permanent connections. Excludes grouting.		
03 48 21 00-0002 EA Install Precast Handrails, 0-2 Ton/Handrail.....	165.67	74.58
03 48 21 00-0003 EA Install Precast Handrails, Over 2 Ton/Handrail.....	198.69	89.39
<b>03 48 21 00-0004</b> Material Cost <small>(03 48 21)</small>		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast operations.		
03 48 21 00-0005 CY 4" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,306.31	
For 3,500 PSI Concrete, Add	215.74	
For 4,000 PSI Concrete, Add	405.35	
For 4,500 PSI Concrete, Add	595.80	
For 5,000 PSI Concrete, Add	810.54	
03 48 21 00-0006 CY 5" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,431.86	
For 3,500 PSI Concrete, Add	223.93	
For 4,000 PSI Concrete, Add	420.75	
For 4,500 PSI Concrete, Add	618.42	
For 5,000 PSI Concrete, Add	841.32	
03 48 21 00-0007 CY 6" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,557.42	
For 3,500 PSI Concrete, Add	232.12	
For 4,000 PSI Concrete, Add	436.14	
For 4,500 PSI Concrete, Add	641.05	
For 5,000 PSI Concrete, Add	872.10	
03 48 21 00-0008 CY 8" Thick 3,000 PSI Concrete Precast Concrete Handrail.....	3,724.83	
For 3,500 PSI Concrete, Add	243.05	
For 4,000 PSI Concrete, Add	456.66	
For 4,500 PSI Concrete, Add	671.21	
For 5,000 PSI Concrete, Add	913.14	
<b>03 48 22 Precast Concrete Sun Screen and Trellis</b> <small>(03 48)</small>		
<b>03 48 22 00-0001</b> Sun Screen Blades <small>(03 48 22)</small>		
<b>03 48 22 00-0002</b> Installation Cost <small>(03 48 22 00-0001)</small>		
Note: Includes handling, hoisting into place, alignment, bracing, and permanent connections.		
03 48 22 00-0003 EA Install Precast Sun Screen Blade, 0-1 Ton/Each.....	82.83	37.30

**03 Concrete****03 40 Precast Concrete****03 48 Precast Concrete Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 22 00-0004	EA		Install Precast Sun Screen Blade, 1-2 Ton/Each .....	99.52	44.75
03 48 22 00-0005	EA		Install Precast Sun Screen Blade, 2-3 Ton/Each .....	124.34	55.99
<b>03 48 22 00-0006</b>			<b>Material Cost</b> <small>(03 48 22 00-0001)</small>		
			Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0007	CY		4" Thick 3,000 PSI Concrete Precast Sun Screen Blades .....	3,515.57	
			For 3,500 PSI Concrete, Add .....	229.39	
			For 4,000 PSI Concrete, Add .....	431.01	
			For 4,500 PSI Concrete, Add .....	633.51	
			For 5,000 PSI Concrete, Add .....	861.84	
03 48 22 00-0008	CY		5" Thick 3,000 PSI Concrete Precast Sun Screen Blades .....	3,641.12	
			For 3,500 PSI Concrete, Add .....	237.58	
			For 4,000 PSI Concrete, Add .....	446.40	
			For 4,500 PSI Concrete, Add .....	656.13	
			For 5,000 PSI Concrete, Add .....	892.62	
03 48 22 00-0009	CY		6" Thick 3,000 PSI Concrete Precast Sun Screen Blades .....	3,808.53	
			For 3,500 PSI Concrete, Add .....	248.51	
			For 4,000 PSI Concrete, Add .....	466.93	
			For 4,500 PSI Concrete, Add .....	686.30	
			For 5,000 PSI Concrete, Add .....	933.66	
03 48 22 00-0010	CY		8" Thick 3,000 PSI Concrete Precast Sun Screen Blades .....	3,975.94	
			For 3,500 PSI Concrete, Add .....	259.43	
			For 4,000 PSI Concrete, Add .....	487.45	
			For 4,500 PSI Concrete, Add .....	716.46	
			For 5,000 PSI Concrete, Add .....	974.70	
<b>03 48 22 00-0011</b>			<b>Sun Screen/Trellis Units</b> <small>(03 48 22)</small>		
<b>03 48 22 00-0012</b>			<b>Installation Cost Using A 50 Ton Hydraulic Crane</b> <small>(03 48 22 00-0011)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent to connections.		
03 48 22 00-0013	EA		Install Precast Trellis, 0-1 Tons/Unit 100' Maximum Radius With 50 Ton Crane .....	383.95	172.75
03 48 22 00-0014	EA		Install Precast Trellis, 1-3 Tons/Unit 65' Maximum Radius With 50 Ton Crane .....	429.47	193.32
03 48 22 00-0015	EA		Install Precast Trellis, 3-5 Tons/Unit 50' Maximum Radius With 50 Ton Crane .....	487.23	219.23
03 48 22 00-0016	EA		Install Precast Trellis, 5-7 Tons/Unit 40' Maximum Radius With 50 Ton Crane .....	520.73	234.33
<b>03 48 22 00-0017</b>			<b>Material Cost</b> <small>(03 48 22 00-0011)</small>		
			Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 22 00-0018	CY		4" Thick 3,000 PSI Concrete Precast Trellises Blades .....	4,059.64	
			For 3,500 PSI Concrete, Add .....	264.89	
			For 4,000 PSI Concrete, Add .....	497.71	
			For 4,500 PSI Concrete, Add .....	731.55	
			For 5,000 PSI Concrete, Add .....	995.22	
03 48 22 00-0019	CY		5" Thick 3,000 PSI Concrete Precast Trellises Blades .....	4,185.20	
			For 3,500 PSI Concrete, Add .....	273.08	
			For 4,000 PSI Concrete, Add .....	513.11	
			For 4,500 PSI Concrete, Add .....	754.17	
			For 5,000 PSI Concrete, Add .....	1,026.00	
03 48 22 00-0020	CY		6" Thick 3,000 PSI Concrete Precast Trellises Blades .....	4,352.61	
			For 3,500 PSI Concrete, Add .....	284.01	
			For 4,000 PSI Concrete, Add .....	533.63	
			For 4,500 PSI Concrete, Add .....	784.34	
			For 5,000 PSI Concrete, Add .....	1,067.04	
03 48 22 00-0021	CY		8" Thick 3,000 PSI Concrete Precast Trellises Blades .....	4,561.87	
			For 3,500 PSI Concrete, Add .....	297.66	
			For 4,000 PSI Concrete, Add .....	559.29	
			For 4,500 PSI Concrete, Add .....	822.05	
			For 5,000 PSI Concrete, Add .....	1,118.34	
<b>03 48 24</b>			<b>Precast Minaret Segments</b> <small>(03 48)</small>		
<b>03 48 24 00-0001</b>			<b>Installation Costs Using A 50 Ton Hydraulic Crane</b> <small>(03 48 24)</small>		
			Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
<b>03 48 24 00-0002</b>			<b>L - Shaped Segments</b> <small>(03 48 24 00-0001)</small>		
03 48 24 00-0003	EA		Install Minaret, L-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane .....	373.62	298.90
03 48 24 00-0004	EA		Install Minaret, L-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane .....	418.68	334.96
03 48 24 00-0005	EA		Install Minaret, L-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane .....	473.39	378.70
03 48 24 00-0006	EA		Install Minaret, L-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane .....	504.95	403.95
<b>03 48 24 00-0007</b>			<b>O - Shaped Segments</b> <small>(03 48 24 00-0001)</small>		
03 48 24 00-0008	EA		Install Minaret, O-Shape Segment, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane .....	394.86	315.95
03 48 24 00-0009	EA		Install Minaret, O-Shape Segment, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane .....	443.17	354.49
03 48 24 00-0010	EA		Install Minaret, O-Shape Segment, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane .....	501.91	401.49
03 48 24 00-0011	EA		Install Minaret, O-Shape Segment, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane .....	537.52	430.00
<b>03 48 24 00-0012</b>			<b>Platform Segment</b> <small>(03 48 24 00-0001)</small>		
03 48 24 00-0013	EA		Install Minaret, Platform Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane .....	757.43	606.00
03 48 24 00-0014	EA		Install Minaret, Platform Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane .....	915.57	732.41



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Precast Concrete</b>	<b>03 40</b>	
<b>Precast Concrete Specialties</b>	<b>03 48</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 48 24 00-0015 EA Install Minaret, Platform Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane .....	1,016.06	812.86
03 48 24 00-0016 EA Install Minaret, Platform Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane .....	1,141.33	913.10
<b>03 48 24 00-0017 Cap Segment (03 48 24 00-0001)</b>		
03 48 24 00-0018 EA Install Minaret, Cap Segments, 0-1 Ton/Each 100' Maximum Radius With 50 Ton Crane .....	414.52	331.57
03 48 24 00-0019 EA Install Minaret, Cap Segments, 1-3 Ton/Each 65' Maximum Radius With 50 Ton Crane .....	462.87	370.24
03 48 24 00-0020 EA Install Minaret, Cap Segments, 3-5 Ton/Each 50' Maximum Radius With 50 Ton Crane .....	527.33	421.79
03 48 24 00-0021 EA Install Minaret, Cap Segments, 5-7 Ton/Each 40' Maximum Radius With 50 Ton Crane .....	562.95	450.30
<b>03 48 24 00-0022 Installation Costs Using A 90 Ton Crawler Crane (03 48 24)</b>		
Note: Includes handling, hoisting into place, alignment, bracing and permanent connections. Excludes grouting and caulking of joints.		
<b>03 48 24 00-0023 L - Shaped Segments (03 48 24 00-0022)</b>		
03 48 24 00-0024 EA Install Minaret, L-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane .....	376.15	300.92
03 48 24 00-0025 EA Install Minaret, L-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane .....	421.52	337.23
03 48 24 00-0026 EA Install Minaret, L-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane .....	476.60	381.26
03 48 24 00-0027 EA Install Minaret, L-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane .....	508.37	406.69
<b>03 48 24 00-0028 O - Shaped Segment (03 48 24 00-0022)</b>		
03 48 24 00-0029 EA Install Minaret, O-Shaped Segments, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane .....	397.54	318.09
03 48 24 00-0030 EA Install Minaret, O-Shaped Segments, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane .....	446.17	356.89
03 48 24 00-0031 EA Install Minaret, O-Shaped Segments, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane .....	505.31	404.21
03 48 24 00-0032 EA Install Minaret, O-Shaped Segments, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane .....	541.16	432.91
<b>03 48 24 00-0033 Platform Segment (03 48 24 00-0022)</b>		
03 48 24 00-0034 EA Install Minaret, Platform Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane .....	607.84	486.25
03 48 24 00-0035 EA Install Minaret, Platform Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane .....	735.80	588.61
03 48 24 00-0036 EA Install Minaret, Platform Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane .....	814.38	651.53
03 48 24 00-0037 EA Install Minaret, Platform Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane .....	921.77	737.37
<b>03 48 24 00-0038 Cap Segment (03 48 24 00-0022)</b>		
03 48 24 00-0039 EA Install Minaret, Cap Segment, 0-1 Ton/Each 180' Maximum Radius With 90 Ton Crane .....	417.32	333.82
03 48 24 00-0040 EA Install Minaret, Cap Segment, 1-3 Ton/Each 135' Maximum Radius With 90 Ton Crane .....	466.01	372.74
03 48 24 00-0041 EA Install Minaret, Cap Segment, 3-5 Ton/Each 100' Maximum Radius With 90 Ton Crane .....	530.90	424.65
03 48 24 00-0042 EA Install Minaret, Cap Segment, 5-7 Ton/Each 79' Maximum Radius With 90 Ton Crane .....	566.76	453.35
<b>03 48 24 00-0043 Material Costs (03 48 24)</b>		
Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 24 00-0044 CY Precast Concrete Minaret, L-Shaped Segments, 3,000 PSI Concrete .....	10,043.92	
Note: Including Post Tension Cost		
03 48 24 00-0045 CY Precast Concrete Minaret, O-Shaped Segments, 3,000 PSI Concrete .....	10,043.92	
Note: Including Post Tension Cost		
03 48 24 00-0046 CY Precast Concrete Minaret, Platform Segments, 3,000 PSI Concrete .....	10,043.92	
Note: Including Post Tension Cost		
03 48 24 00-0047 CY Precast Concrete Minaret, Cap Segments, 3,000 PSI Concrete .....	10,043.92	
Note: Including Post Tension Cost		
<b>03 48 29 Precast Accessories (03 48)</b>		
Note: Includes installation labor, material and equipment.		
<b>03 48 29 00-0001 Bearing Pads For Precast Members (03 48 29)</b>		
<b>03 48 29 00-0002 Continuous 2" Wide Strips (03 48 29 00-0001)</b>		
03 48 29 00-0003 LF Bearing Pads, Continuous 2" Wide x 1/8" Thick Strips .....	1.46	
Note: For precast members		
03 48 29 00-0004 LF Bearing Pads, Continuous 2" Wide x 1/4" Thick Strips .....	2.13	
Note: For precast members.		
03 48 29 00-0005 LF Bearing Pads, Continuous 2" Wide x 1/2" Thick Strips .....	3.60	
Note: For precast members		
03 48 29 00-0006 LF Bearing Pads, Continuous 2" Wide x 3/4" Thick Strips .....	5.09	
Note: For precast members		
03 48 29 00-0007 LF Bearing Pads, Continuous 2" Wide x 1" Thick Strips .....	6.64	
Note: For precast members		
03 48 29 00-0008 LF Bearing Pads, Continuous 2" Wide x 1-1/2" Thick Strips .....	9.58	
Note: For precast members		
<b>03 48 29 00-0009 Bearing Pad Pipe Supports (03 48 29)</b>		
03 48 29 00-0010 LF 8" Diameter Precast Balustrade, Decorative Shapes .....	116.06	
03 48 29 00-0011 LF Precast Rail Cap, <1 SF Cross Section .....	74.08	
03 48 29 00-0012 LF 4" x 4" Precast Pipe Support .....	9.86	

**03 48 46 Precast Skylight Shells (03 48)**

**03 Concrete****03 40 Precast Concrete****03 48 Precast Concrete Specialties**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>03 48 46 00-0001</b>	<b>Installation Cost Using A 90 Ton Crawler Crane</b> <small>(03 48 46)</small>		
	Note: Includes handling, hoisting into place, alignment, bracing and permanent connections.		
03 48 46 00-0002	EA Install Precast Skylight Shell, 0-4 Tons/Each Based On 90 Ton Crawler Crane.....	543.27	244.51
03 48 46 00-0003	EA Install Precast Skylight Shell, 4-6 Tons/Each Based On 90 Ton Crawler Crane.....	603.25	271.48
03 48 46 00-0004	EA Install Precast Skylight Shell, 6-8 Tons/Each Based On 90 Ton Crawler Crane.....	678.11	305.15

<b>03 48 46 00-0005</b>	<b>Material Cost</b> <small>(03 48 46)</small>		
	Note: Includes 3000 PSI concrete, imbedded items, formwork and precast concrete operations.		
03 48 46 00-0006	CY 3.5" Thick 3,000 PSI Concrete Precast Skylight With 4.4' Radius .....	4,202.06	

<b>03 48 49</b>	<b>Precast Landings</b> <small>(03 48)</small>		
03 48 49 00-0001	SF 3" Thick Precast Landing .....	103.41	
03 48 49 00-0002	SF 4" Thick Precast Landing .....	120.66	
03 48 49 00-0003	SF 5" Thick Precast Landing .....	136.97	
03 48 49 00-0004	SF 6" Thick Precast Landing .....	157.89	

<b>03 48 54</b>	<b>Precast Concrete Blocks</b> <small>(03 48)</small>		
<b>03 48 54 00-0001</b>	<b>Precast Interlocking Concrete Blocks</b> <small>(03 48 54)</small>		
	Note: Includes lifting loop		
03 48 54 00-0002	EA 2' x 2' x 2' Precast Interlocking Concrete (Ecology) Block .....	188.73	41.74
03 48 54 00-0003	EA 2' x 2' x 3' Precast Interlocking Concrete (Ecology) Block .....	222.10	46.95
03 48 54 00-0004	EA 2' x 2' x 4' Precast Interlocking Concrete (Ecology) Block .....	255.47	52.17
03 48 54 00-0005	EA 2' x 2' x 6' Precast Interlocking Concrete (Ecology) Block .....	342.55	57.39
03 48 54 00-0006	EA 2' x 2' x 8' Precast Interlocking Concrete (Ecology) Block .....	413.97	62.60

**03 50 Cast Decks and Underlayment** (03)**03 51 Cast Roof Decks** (03 50)

<b>03 51 13</b>	<b>Cementitious Wood Fiber Decks</b> <small>(03 51)</small>		
<b>03 51 13 00-0001</b>	<b>Cement Fiber Tongue And Groove Planks</b> <small>(03 51 13)</small>		
03 51 13 00-0002	SF 1" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	4.71	
03 51 13 00-0003	SF 1-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	4.92	
03 51 13 00-0004	SF 2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	5.14	
03 51 13 00-0005	SF 2-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	5.89	
03 51 13 00-0006	SF 3" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	6.70	
03 51 13 00-0007	SF 3-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	7.62	
03 51 13 00-0008	SF 4" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	8.76	

<b>03 51 16</b>	<b>Gypsum Concrete Roof Decks</b> <small>(03 51)</small>		
<b>03 51 16 00-0001</b>	<b>Class A Gypsum Fill Concrete Deck</b> <small>(03 51 16)</small>		
03 51 16 00-0002	SF 2" Thick Precast Gypsum Fill Concrete Deck, Class A .....	11.56	0.57
03 51 16 00-0003	SF 2-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A .....	14.33	0.66
03 51 16 00-0004	SF 3" Thick Precast Gypsum Fill Concrete Deck, Class A .....	17.12	0.75
03 51 16 00-0005	SF 3-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A .....	19.93	0.84
03 51 16 00-0006	SF 4" Thick Precast Gypsum Fill Concrete Deck, Class A .....	22.76	0.93

<b>03 51 16 00-0007</b>	<b>Form Board For Lightweight Deck</b> <small>(03 51 16)</small>		
03 51 16 00-0008	SF Gypsum Deck Form Board, 1/2" Drywall For Lightweight Deck .....	2.39	
03 51 16 00-0009	SF Gypsum Deck Form Board, 1" Mineral Fiber Board For Lightweight Deck .....	3.17	
03 51 16 00-0010	SF Gypsum Deck Form Board, 1-1/2" Mineral Fiber Board For Lightweight Deck .....	6.51	
03 51 16 00-0011	SF Gypsum Deck Form Board, 1" Cementitious Fiber Board For Lightweight Deck .....	2.64	0.64
03 51 16 00-0012	SF Gypsum Deck Form Board, 1-1/2" Cementitious Fiber Board For Lightweight Deck .....	3.20	0.64
03 51 16 00-0013	SF Gypsum Deck Form Board, 1" Glass Fiber Board For Lightweight Deck .....	3.55	0.64
03 51 16 00-0014	SF Gypsum Deck Form Board, 1-1/2" Glass Fiber Board For Lightweight Deck .....	4.37	0.64

<b>03 51 16 00-0015</b>	<b>Gypsum Plank</b> <small>(03 51 16)</small>		
03 51 16 00-0016	SF 2" Thick, Insulating Concrete Gypsum Plank, Roof Deck .....	4.88	
03 51 16 00-0017	SF 3" Thick, Insulating Concrete Gypsum Plank, Roof Deck .....	6.58	

**03 53 Concrete Topping** (03 50)

Note: Installed over new or existing concrete.

<b>03 53 14</b>	<b>Granolithic Concrete Topping</b> <small>(03 53)</small>		
<b>03 53 14 00-0001</b>	<b>Granolithic Topping Laid After</b> <small>(03 53 14)</small>		
	Note: Using 1:1:1-1/2 mix.		
03 53 14 00-0002	SF 1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix .....	4.39	
03 53 14 00-0003	SF 1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix .....	4.83	
03 53 14 00-0004	SF 2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix .....	6.24	



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Cast Decks and Underlayment</b>	<b>03 50</b>	
<b>Concrete Topping</b>	<b>03 53</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**03 53 19 Concrete Overlayment** (03 53)

**03 53 19 00-0001 Integral Topping Including Hard Trowel Finish** (03 53 19)  
 Note: Using 1:1:2 mix.

03 53 19 00-0002	SF	3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	2.61
03 53 19 00-0003	SF	1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	2.99
03 53 19 00-0004	SF	3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	3.56
03 53 19 00-0005	SF	1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	4.27
03 53 19 00-0006	SF	2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	6.25
03 53 19 00-0007	SF	2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix .....	5.58
03 53 19 00-0008	SF	3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix.....	6.34

**03 54 Cast Underlayment** (03 50)

Note: Includes primer. Excludes sandblasting existing smooth finished concrete surface (where necessary).

**03 54 16 Hydraulic Cement Underlayment** (03 54)

**03 54 16 00-0001 Self Leveling Cementitious Underlayment For Floors** (03 54 16)  
 Note: Includes primer.

03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors .....	2.14
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.14
		For >100 To 250 SF, Add	0.07
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors .....	3.79
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.14
		For >100 To 250 SF, Add	0.07
03 54 16 00-0004	SF	3/8" Thick Self Leveling Cementitious Underlayment For Floors .....	4.89
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.14
		For >100 To 250 SF, Add	0.07
03 54 16 00-0005	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors .....	7.08
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.14
		For >100 To 250 SF, Add	0.07
03 54 16 00-0006	SF	5/8" Thick Self Leveling Cementitious Underlayment For Floors .....	8.40
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.14
		For >100 To 250 SF, Add	0.07
03 54 16 00-0007	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors .....	10.42
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.17
		For >100 To 250 SF, Add	0.08
03 54 16 00-0008	SF	1" Thick Self Leveling Cementitious Underlayment For Floors .....	13.71
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.17
		For >100 To 250 SF, Add	0.08
03 54 16 00-0009	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors .....	18.12
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.19
		For >100 To 250 SF, Add	0.09
03 54 16 00-0010	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors .....	20.33
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.19
		For >100 To 250 SF, Add	0.09
03 54 16 00-0011	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors .....	27.01
		Note: Including Surface Preparation	
		For Up To 100 SF, Add	0.23
		For >100 To 250 SF, Add	0.12

**03 60 Grouting** (03)

**03 61 Cementitious Grouting** (03 60)

Note: 1 part cement to 3 parts sand by volume.

**03 61 16 Cementitious Flowable Grout** (03 61)

**03 61 16 00-0001 Cementitious Flowable Grout** (03 61 16)

03 61 16 00-0002	CY	Cementitious Flowable Grout .....	540.43
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**03 62 Non-Shrink Grouting** (03 60)

**03 62 13 Non-Metallic Non-Shrink Grouting** (03 62)

**03 62 13 00-0001 Fluid Type, Non-Metallic Non-Shrink Grouting For Bases** (03 62 13)

03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases .....	29.17
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases .....	44.66

<b>03</b>	<b>03 Concrete</b>
	<b>03 60 Grouting</b>
	<b>03 62 Non-Shrink Grouting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases</b> <small>(03 62 13)</small>		
03 62 13 00-0005 SF 1" Deep, Non-Metallic Non-Shrink Grout For Bases .....	45.34	
03 62 13 00-0006 SF 2" Deep, Non-Metallic Non-Shrink Grout For Bases .....	74.56	
<b>03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints</b> <small>(03 62 13)</small>		
<b>03 62 13 00-0008 1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints</b> <small>(03 62 13 00-0007)</small>		
03 62 13 00-0009 LF 4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints .....	2.25	
03 62 13 00-0010 LF 6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints .....	2.98	
03 62 13 00-0011 LF 8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints .....	3.95	
<b>03 62 13 00-0012 1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints</b> <small>(03 62 13 00-0007)</small>		
03 62 13 00-0013 LF 4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints .....	3.42	
03 62 13 00-0014 LF 6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints .....	4.61	
03 62 13 00-0015 LF 8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints .....	6.12	
<b>03 62 16 Metallic Non-Shrink Grouting</b> <small>(03 62)</small>		
<b>03 62 16 00-0001 Metallic Non-Shrink Grouting For Bases</b> <small>(03 62 16)</small>		
03 62 16 00-0002 SF 1" Deep, Metallic Non-Shrink Grout For Bases .....	36.97	
03 62 16 00-0003 SF 2" Deep, Metallic Non-Shrink Grout For Bases .....	58.32	
<b>03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints</b> <small>(03 62 16)</small>		
<b>03 62 16 00-0005 1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints</b> <small>(03 62 16 00-0004)</small>		
03 62 16 00-0006 LF 4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints .....	1.72	
03 62 16 00-0007 LF 6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints .....	2.19	
03 62 16 00-0008 LF 8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints .....	2.93	
<b>03 62 16 00-0009 1" Joint Thickness, Metallic Non-Shrink Grout For Joints</b> <small>(03 62 16 00-0004)</small>		
03 62 16 00-0010 LF 4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints .....	2.40	
03 62 16 00-0011 LF 6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints .....	3.03	
03 62 16 00-0012 LF 8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints .....	4.04	
<b>03 64 Injection Grouting</b> <small>(03 60)</small>		
Note: By volume of void filled. Includes injection ports.		
<b>03 64 23 Epoxy Injection Grouting</b> <small>(03 64)</small>		
<b>03 64 23 00-0001 Pressure Injected Epoxy Grout</b> <small>(03 64 23)</small>		
03 64 23 00-0002 CF Pressure Injected Epoxy Grout .....	1,325.65	
<i>For &gt;4, Deduct</i>		-140.45
<b>03 64 26 Cementitious Injection Grouting</b> <small>(03 64)</small>		
<b>03 64 26 00-0001 Pressure Injected Cementitious Grout</b> <small>(03 64 26)</small>		
03 64 26 00-0002 CF Pressure Injected Cementitious Grout .....	230.40	
<i>For &gt;4, Deduct</i>		-60.25
<b>03 80 Concrete Cutting and Boring</b> <small>(03)</small>		
<b>03 81 Concrete Cutting</b> <small>(03 80)</small>		
<b>03 81 13 Flat Concrete Sawing</b> <small>(03 81)</small>		
See CSI section 02 41 19 13-0001 for saw cutting.		
<b>03 81 16 Track Mounted Concrete Wall Sawing</b> <small>(03 81)</small>		
See CSI section 02 41 19 13-0001 for saw cutting.		
<b>03 82 Concrete Boring</b> <small>(03 80)</small>		
<b>03 82 13 Concrete Core Drilling</b> <small>(03 82)</small>		
See CSI section 02 41 19 13-0024 for core drilling.		

**END OF SECTION 03**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 09 Finishes

### 09 01 Maintenance of Finishes (09)

#### 09 01 20 Maintenance of Plaster and Gypsum Board (09 01)

##### 09 01 20 91 Plaster Restoration (09 01 20)

09 01 20 91-0001	Cut And Patch Hole In Gypsum Board To Match Existing <small>(09 01 20 91)</small> Note: Includes cutting of existing gypsum board, cutting new board to fit opening, taping, gypsum board finishing, and disposal of debris into dumpster. Per location. See CSI section 09 29 00 00-0000 for "Gypsum Board" repairs > 32 SF.	
09 01 20 91-0002	SF Up To 2 SF, Cut And Patch Hole In Gypsum Board To Match Existing ..... Note: Per location.	21.75
09 01 20 91-0003	SF >2 To 4 SF, Cut And Patch Hole In Gypsum Board To Match Existing ..... Note: Per location.	17.56
09 01 20 91-0004	SF >4 To 8 SF, Cut And Patch Hole In Gypsum Board To Match Existing ..... Note: Per location.	15.75
09 01 20 91-0005	SF >8 To 16 SF, Cut And Patch Hole In Gypsum Board To Match Existing ..... Note: Per location.	13.88
09 01 20 91-0006	SF >16 To 32 SF, Cut And Patch Hole In Gypsum Board To Match Existing ..... Note: Per location. See CSI section 09 29 10 00-0001 for "Gypsum Board" repairs > 32 SF.	12.42

09 01 20 91-0007	Patch/Finish Gypsum Board To Match Existing <small>(09 01 20 91)</small> Note: Includes taping, gypsum board finishing. Per location. See CSI section 09 01 20 91-0001 for patching walls requiring gypsum board to be cut and installed.	
09 01 20 91-0008	EA Tape, Spackle And Finish Gypsum Board To Patch/Finish Small Diameter Holes Or Screw Head Pops ..... <i>For ASTM C840 Level 1 Finish, Deduct</i> ..... <i>For ASTM C840 Level 2 Finish, Deduct</i> ..... <i>For ASTM C840 Level 3 Finish, Deduct</i> ..... <i>For ASTM C840 Level 5 High Quality Finish, Add</i> .....	2.21 -1.07 -0.53 -0.21 1.64

09 01 20 91-0009	Plaster/Stucco Repair <small>(09 01 20 91)</small> Note: Per location.	
09 01 20 91-0010	Clean And Repair Crack In Plaster/Stucco <small>(09 01 20 91-0009)</small> Note: Includes plaster weld.	
09 01 20 91-0011	LF Up To 10', Chip, Clean And Repair Crack In Plaster/Stucco .....	21.25
09 01 20 91-0012	LF >10' To 50', Chip, Clean And Repair Crack In Plaster/Stucco .....	17.06
09 01 20 91-0013	LF >50' To 100', Chip, Clean And Repair Crack In Plaster/Stucco .....	13.91
09 01 20 91-0014	LF >100' To 250', Chip, Clean And Repair Crack In Plaster/Stucco .....	10.76
09 01 20 91-0015	LF >250' To 500', Chip, Clean And Repair Crack In Plaster/Stucco .....	8.66
09 01 20 91-0016	LF >500', Chip, Clean And Repair Crack In Plaster/Stucco .....	6.56

09 01 20 91-0017	Cut And Patch Hole In Plaster/Stucco To Match Existing <small>(09 01 20 91-0009)</small> Note: Includes plaster weld.	
09 01 20 91-0018	SF Up To 10 SF, Cut And Patch Hole In Plaster To Match Existing .....	20.30
09 01 20 91-0019	SF >10 To 50 SF, Cut And Patch Hole In Plaster To Match Existing .....	17.97
09 01 20 91-0020	SF >50 To 100 SF, Cut And Patch Hole In Plaster To Match Existing .....	16.55
09 01 20 91-0021	SF >100 To 250 SF, Cut And Patch Hole In Plaster To Match Existing .....	15.38
09 01 20 91-0022	SF >250 To 500 SF, Cut And Patch Hole In Plaster To Match Existing .....	14.36
09 01 20 91-0023	SF >500 SF, Cut And Patch Hole In Plaster To Match Existing .....	13.22

09 01 20 91-0024	Chip, Clean And Repair Plaster/Stucco <small>(09 01 20 91-0009)</small> Note: Includes plaster weld.	
09 01 20 91-0025	SF Up To 10 SF, Chip, Clean And Repair Plaster/Stucco .....	38.28
09 01 20 91-0026	SF >10 To 50 SF, Chip, Clean And Repair Plaster/Stucco .....	27.79
09 01 20 91-0027	SF >50 To 250 SF, Chip, Clean And Repair Plaster/Stucco .....	20.45
09 01 20 91-0028	SF >250 SF, Chip, Clean And Repair Plaster/Stucco .....	16.25

#### 09 01 30 Maintenance of Tiling (09 01)

##### 09 01 30 91 Tile Restoration (09 01 30)

09 01 30 91-0001	SF Regrout Floor Tile Including Removal Of Loose Grout .....	8.22
09 01 30 91-0002	SF Regrout Wall Tile Including Removal Of Loose Grout .....	10.26
09 01 30 91-0003	SF Up To 1 SF, Cut And Patch Hole In Wall Tile To Match Existing ..... Note: Per location.	52.19

#### 09 01 60 Maintenance of Flooring (09 01)

##### 09 01 60 91 Flooring Restoration (09 01 60)

09 01 60 91-0001	Grinding, Polishing And Sealing Terrazzo <small>(09 01 60 91)</small>	
09 01 60 91-0002	CSF Grinding, Polishing And Sealing Existing Terrazzo .....	348.06

**09 Finishes**  
**09 01 Maintenance of Finishes**  
**09 01 60 Maintenance of Flooring**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 60 91-0003 SF Removal Of Setting Bed And Clean Area For Terrazzo Repair .....	5.16	
09 01 60 91-0004 SF Repair Existing Terrazzo.....	26.70	
09 01 60 91-0005 LF Repair Cracks In Existing Terrazzo .....	5.56	
<b>09 01 60 91-0006 Standard Flooring Maintenance (09 01 60 91)</b>		
09 01 60 91-0007 CSF Steam Clean Carpet .....	43.81	
09 01 60 91-0008 CSF Wax And Polish Tile And VCT Flooring .....	48.71	
For Additional Coat, Add	40.93	
For Stripping Existing Wax From Floor, Add	46.71	
09 01 60 91-0009 CSF Wax And Polish Wood Flooring .....	30.46	
For Additional Coat, Add	27.00	
For Stripping Existing Wax From Floor, Add	46.71	
09 01 60 91-0010 MSF Vacuum Floors.....	24.10	
<b>09 01 60 91-0011 Prepare Existing Concrete Floor Prior To Installation Of Flooring (09 01 60 91)</b>		
09 01 60 91-0012 SY Grinding Of Existing Concrete Floor Prior To Installation Of Flooring.....	9.24	
Note: Up to 1/8" of material per pass		
09 01 60 91-0013 LF Up To 6" Wide, Hand Detail Work/Grinding At Wall Of Existing Concrete Floor Prior To Installation Of Flooring.....	18.00	
Note: Up to 1/4" of material per pass		
09 01 60 91-0014 SY Chemical Prepare Existing Concrete Floor Prior To Installation Of Flooring.....	8.13	
<b>09 01 60 91-0015 Floor Sealants (09 01 60 91)</b>		
09 01 60 91-0016 SF Water-Based Emulsion, Masonry/Tile/Stone/Terrazzo Floor Sealant/Finish, Per Coat .....	1.45	
Note: For terrazzo, concrete, quarry tile, brick and unglazed ceramic tile.		
09 01 60 91-0017 SF Water-Based, Clear Acrylic, Concrete Floor Sealant/Finish, Per Coat .....	1.63	
Note: For interior/exterior concrete surfaces.		
09 01 60 91-0018 SF Fluorochemical Acrylate Copolymer Masonry/Tile/Stone/Terrazzo Floor Sealant .....	1.59	
09 01 60 91-0019 GAL Masonry/Tile/Stone/Terrazzo Floor Sealant (Extra To Be Provided To Owner).....	48.51	
<b>09 01 80 Maintenance of Acoustic Treatment (09 01)</b>		
<b>09 01 80 00-0001 Removal Of Acoustical Ceiling Treatment (09 01 80)</b>		
09 01 80 00-0002 SF Removal Of Acoustical And Popcorn Ceilings Treatment.....	2.65	
<b>09 01 90 Maintenance of Painting and Coating (09 01)</b>		
<b>09 01 90 52 Maintenance Repainting (09 01 90)</b>		
<b>09 01 90 52-0001 Cleaning And Preparation Of Painted And Unpainted Surfaces (09 01 90 52)</b>		
Note: In excess of surface preparation required. Water blast and pressure washing includes mild detergent and rinsing of surface until detergent free. Media blast and water blast includes canvas/plastic for protection of existing surfaces as well as for containment and collection.		
<b>09 01 90 52-0002 Concrete And Masonry Surfaces, Surface Preparation (09 01 90 52-0001)</b>		
09 01 90 52-0003 SF Trisodium Phosphate (TSP), Clean Concrete Or Masonry Surfaces, Surface Preparation .....	0.54	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.08	
For >30,000, Deduct	-0.11	
09 01 90 52-0004 SF Calcimine Removal/Washing, Concrete And Masonry Surfaces, Surface Preparation.....	0.56	
For Up To 100, Add	0.97	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.08	
For >30,000, Deduct	-0.11	
09 01 90 52-0005 SF Chemical Clean, Brush And Wash, Concrete And Masonry Surfaces, Surface Preparation .....	0.87	
For Up To 100, Add	1.49	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.19	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.13	
For >30,000, Deduct	-0.17	
09 01 90 52-0006 SF Hand Scrape, Concrete And Masonry Surfaces, Surface Preparation .....	0.72	
For Up To 100, Add	1.44	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.18	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.14	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0007 SF Steam Clean, Concrete And Masonry Surfaces, Surface Preparation.....	0.80	
<i>For Up To 100, Add</i>	1.38	
<i>For &gt;100 To 250, Add</i>	0.36	
<i>For &gt;250 To 500, Add</i>	0.18	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.04	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.07	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.12	
<i>For &gt;30,000, Deduct</i>	-0.15	
09 01 90 52-0008 SF 2,000 To 5,000 PSI Pressure Wash, Concrete And Masonry Surfaces, Surface Preparation .....	0.52	
<i>For Up To 100, Add</i>	0.85	
<i>For &gt;100 To 250, Add</i>	0.23	
<i>For &gt;250 To 500, Add</i>	0.11	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.05	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.07	
<i>For &gt;30,000, Deduct</i>	-0.10	
09 01 90 52-0009 SF 10,000 To 12,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation .....	1.44	
<i>For Up To 100, Add</i>	2.58	
<i>For &gt;100 To 250, Add</i>	0.67	
<i>For &gt;250 To 500, Add</i>	0.33	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.07	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.14	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.21	
<i>For &gt;30,000, Deduct</i>	-0.28	
09 01 90 52-0010 SF 30,000 To 40,000 PSI Water Blast, Concrete And Masonry Surfaces, Surface Preparation .....	2.36	
<i>For Up To 100, Add</i>	4.42	
<i>For &gt;100 To 250, Add</i>	1.13	
<i>For &gt;250 To 500, Add</i>	0.56	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.23	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.35	
<i>For &gt;30,000, Deduct</i>	-0.46	
09 01 90 52-0011 SF Abrasive Glass Media Blasting, Concrete And Masonry Surfaces, Surface Preparation.....	3.68	
Note: 3 lbs of sand or glass abrasive media material per SF		
<i>For 4.5 lbs Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add</i>	2.14	
<i>For 6 lbs Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add</i>	4.42	
<i>For 9 lbs Of Abrasive Media Material per SF, Where Multiple Pass Is Required, Add</i>	7.36	
<i>For Up To 100, Add</i>	6.27	
<i>For &gt;100 To 250, Add</i>	1.66	
<i>For &gt;250 To 500, Add</i>	0.81	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.17	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.34	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.53	
<i>For &gt;30,000, Deduct</i>	-0.70	
<b>09 01 90 52-0012 Drywall Surfaces, Surface Preparation</b> <small>(09 01 90 52-0001)</small>		
See CSI section 09 01 20 91-0007 for Patch holes other than nail/screw holes and greater than 1/2" diameter.		
09 01 90 52-0013 SF Hand Wash Drywall Surfaces With Mild Detergent Or Degreaser (No Sanding, Repairing Or Scraping), Surface Preparation .....	0.42	
<i>For Up To 100, Add</i>	0.84	
<i>For &gt;100 To 250, Add</i>	0.21	
<i>For &gt;250 To 500, Add</i>	0.11	
09 01 90 52-0014 SF Hand Wash, Minor Repair And Light Sanding Drywall Surfaces, Surface Preparation.....	0.71	
<i>For Up To 100, Add</i>	1.42	
<i>For &gt;100 To 250, Add</i>	0.36	
<i>For &gt;250 To 500, Add</i>	0.18	
09 01 90 52-0015 SF Hand Scrape, Repair And Sand Severely Damaged Drywall Surfaces, Surface Preparation.....	1.32	
<i>For Up To 100, Add</i>	2.52	
<i>For &gt;100 To 250, Add</i>	0.64	
<i>For &gt;250 To 500, Add</i>	0.32	
<b>09 01 90 52-0016 Metal Surfaces, Surface Preparation</b> <small>(09 01 90 52-0001)</small>		
09 01 90 52-0017 SF Trisodium Phosphate (TSP), Clean Metal Surfaces, Surface Preparation.....	0.52	
<i>For Up To 100, Add</i>	0.38	
<i>For &gt;100 To 250, Add</i>	0.18	
<i>For &gt;250 To 500, Add</i>	0.08	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.03	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.05	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.08	
<i>For &gt;30,000, Deduct</i>	-0.10	
09 01 90 52-0018 SF Chemical Clean, Brush And Wash, Metal Surfaces, Surface Preparation .....	0.87	
<i>For Up To 100, Add</i>	0.53	
<i>For &gt;100 To 250, Add</i>	0.25	
<i>For &gt;250 To 500, Add</i>	0.11	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.04	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.08	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.13	
<i>For &gt;30,000, Deduct</i>	-0.17	

**09 Finishes**  
**09 01 Maintenance of Finishes**  
**09 01 90 Maintenance of Painting and Coating**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0019	SF		Hand Scraping And Sanding, Metal Surfaces, Surface Preparation .....	0.72	
			<i>For Up To 100, Add</i>	0.54	
			<i>For &gt;100 To 250, Add</i>	0.25	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.04	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.07	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.11	
			<i>For &gt;30,000, Deduct</i>	-0.14	
09 01 90 52-0020	SF		2,000 To 5,000 PSI Pressure Wash, Metal Surfaces, Surface Preparation .....	0.50	
			<i>For Up To 100, Add</i>	0.29	
			<i>For &gt;100 To 250, Add</i>	0.14	
			<i>For &gt;250 To 500, Add</i>	0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.05	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.07	
			<i>For &gt;30,000, Deduct</i>	-0.09	
09 01 90 52-0021	SF		Power Tool Cleaning, Metal Surfaces, Surface Preparation .....	1.35	
			<i>For Up To 100, Add</i>	1.01	
			<i>For &gt;100 To 250, Add</i>	0.47	
			<i>For &gt;250 To 500, Add</i>	0.20	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.07	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.14	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.20	
			<i>For &gt;30,000, Deduct</i>	-0.27	
09 01 90 52-0022	SF		Steam Cleaning, Metal Surfaces, Surface Preparation.....	0.51	
			<i>For Up To 100, Add</i>	0.27	
			<i>For &gt;100 To 250, Add</i>	0.13	
			<i>For &gt;250 To 500, Add</i>	0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.05	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.07	
			<i>For &gt;30,000, Deduct</i>	-0.09	
09 01 90 52-0023	SF		Loose Mill Scale With Fine Powder, Commercial Blast, Metal Surfaces, Surface Preparation .....	1.10	
			<i>For Up To 100, Add</i>	0.68	
			<i>For &gt;100 To 250, Add</i>	0.32	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.05	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.10	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.16	
			<i>For &gt;30,000, Deduct</i>	-0.21	
09 01 90 52-0024	SF		Tight Mill Scale With Fine Powder Rust, Commercial Blast, Metal Surfaces, Surface Preparation .....	1.50	
			<i>For Up To 100, Add</i>	0.89	
			<i>For &gt;100 To 250, Add</i>	0.42	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.07	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.14	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.22	
			<i>For &gt;30,000, Deduct</i>	-0.28	
09 01 90 52-0025	SF		Exterior Coating Blistered Pitted, Rust, Commercial Blast, Metal Surfaces, Surface Preparation .....	2.20	
			<i>For Up To 100, Add</i>	1.34	
			<i>For &gt;100 To 250, Add</i>	0.63	
			<i>For &gt;250 To 500, Add</i>	0.27	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.20	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.32	
			<i>For &gt;30,000, Deduct</i>	-0.42	
09 01 90 52-0026	SF		Badly Pitted With Rust Nodules, Commercial Blast, Metal Surfaces, Surface Preparation.....	3.67	
			<i>For Up To 100, Add</i>	2.24	
			<i>For &gt;100 To 250, Add</i>	1.04	
			<i>For &gt;250 To 500, Add</i>	0.45	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.17	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.34	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.53	
			<i>For &gt;30,000, Deduct</i>	-0.70	
09 01 90 52-0027	SF		Loose Mill Scale With Fine Powder Rust, Near White Blast, Metal Surfaces, Surface Preparation.....	2.80	
			<i>For Up To 100, Add</i>	1.68	
			<i>For &gt;100 To 250, Add</i>	0.78	
			<i>For &gt;250 To 500, Add</i>	0.34	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.26	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.40	
			<i>For &gt;30,000, Deduct</i>	-0.53	
09 01 90 52-0028	SF		Tight Mill Scale Little Rust, Near White Blast, Metal Surfaces, Surface Preparation .....	3.47	
			<i>For Up To 100, Add</i>	2.06	
			<i>For &gt;100 To 250, Add</i>	0.96	
			<i>For &gt;250 To 500, Add</i>	0.41	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.16	
			<i>For &gt;10,000 To 15,000, Deduct</i>	-0.32	
			<i>For &gt;15,000 To 30,000, Deduct</i>	-0.50	
			<i>For &gt;30,000, Deduct</i>	-0.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0029 SF Exterior Coat Blistered Pitted Rust, Near White Blast, Metal Surfaces, Surface Preparation .....	4.49	
<i>For Up To 100, Add</i>	2.68	
<i>For &gt;100 To 250, Add</i>	1.25	
<i>For &gt;250 To 500, Add</i>	0.54	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.21	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.41	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.65	
<i>For &gt;30,000, Deduct</i>	-0.85	
09 01 90 52-0030 SF Badly Pitted Rust Nodules, Near White Blast, Metal Surfaces, Surface Preparation .....	5.62	
<i>For Up To 100, Add</i>	3.35	
<i>For &gt;100 To 250, Add</i>	1.56	
<i>For &gt;250 To 500, Add</i>	0.67	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.26	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.52	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.81	
<i>For &gt;30,000, Deduct</i>	-1.07	
<b>09 01 90 52-0031 Tile Surfaces, Surface Preparation (09 01 90 52-0001)</b>		
09 01 90 52-0032 SF Trisodium Phosphate (TSP), Clean Tile Surfaces, Surface Preparation .....	0.48	
<i>For Up To 100, Add</i>	0.35	
<i>For &gt;100 To 250, Add</i>	0.16	
<i>For &gt;250 To 500, Add</i>	0.07	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.05	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.07	
<i>For &gt;30,000, Deduct</i>	-0.10	
09 01 90 52-0033 CSF Chemical Alkaline Cleaner, Brush And Wash Tile Surfaces, Surface Preparation .....	46.97	
<i>For Up To 100, Add</i>	34.96	
<i>For &gt;100 To 250, Add</i>	16.31	
<i>For &gt;250 To 500, Add</i>	6.99	
<i>For &gt;5,000 To 10,000, Deduct</i>	-2.34	
<i>For &gt;10,000 To 15,000, Deduct</i>	-4.68	
<i>For &gt;15,000 To 30,000, Deduct</i>	-7.03	
<i>For &gt;30,000, Deduct</i>	-9.38	
09 01 90 52-0034 SF 2,000 To 5,000 PSI, Pressure Wash Tile Surfaces, Surface Preparation .....	0.36	
<i>For Up To 100, Add</i>	0.22	
<i>For &gt;100 To 250, Add</i>	0.10	
<i>For &gt;250 To 500, Add</i>	0.04	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.03	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.05	
<i>For &gt;30,000, Deduct</i>	-0.07	
<b>09 01 90 52-0035 Wood Surfaces, Surface Preparation (09 01 90 52-0001)</b>		
09 01 90 52-0036 SF Prepare New Wood Floor For Finish, Multi Grit Sanding/Screening .....	1.68	
<i>For Up To 100, Add</i>	1.19	
<i>For &gt;100 To 250, Add</i>	0.56	
<i>For &gt;250 To 500, Add</i>	0.24	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.16	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.25	
<i>For &gt;30,000, Deduct</i>	-0.33	
09 01 90 52-0037 SF Trisodium Phosphate (TSP), Clean Wood Surfaces, Surface Preparation .....	0.50	
<i>For Up To 100, Add</i>	0.36	
<i>For &gt;100 To 250, Add</i>	0.17	
<i>For &gt;250 To 500, Add</i>	0.07	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.05	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.07	
<i>For &gt;30,000, Deduct</i>	-0.10	
09 01 90 52-0038 SF Chemical Clean, Brush And Wash Wood Surfaces, Surface Preparation .....	0.72	
<i>For Up To 100, Add</i>	0.41	
<i>For &gt;100 To 250, Add</i>	0.19	
<i>For &gt;250 To 500, Add</i>	0.08	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.03	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.07	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.10	
<i>For &gt;30,000, Deduct</i>	-0.14	
09 01 90 52-0039 SF Hand Scrape Wood Surfaces, Surface Preparation .....	0.81	
<i>For Up To 100, Add</i>	0.61	
<i>For &gt;100 To 250, Add</i>	0.28	
<i>For &gt;250 To 500, Add</i>	0.12	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.04	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.08	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.12	
<i>For &gt;30,000, Deduct</i>	-0.16	
09 01 90 52-0040 SF Steam Clean Wood Surfaces, Surface Preparation .....	0.78	
<i>For Up To 100, Add</i>	0.47	
<i>For &gt;100 To 250, Add</i>	0.22	
<i>For &gt;250 To 500, Add</i>	0.09	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.04	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.07	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.11	
<i>For &gt;30,000, Deduct</i>	-0.15	

**09 Finishes**  
**09 01 Maintenance of Finishes**  
**09 01 90 Maintenance of Painting and Coating**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0041 SF 2,000 To 5,000 PSI, Pressure Wash Wood Surfaces, Surface Preparation .....	0.54	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.08	
For >30,000, Deduct	-0.10	
09 01 90 52-0042 SF Sanding Wood Paneling, Boards, Doors Or Other Wood Surfaces, Surface Preparation .....	0.98	
For Up To 100, Add	0.68	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.14	
For >30,000, Deduct	-0.19	
09 01 90 52-0043 SF Sanding Wood Trim Surfaces, Surface Preparation .....	1.32	
For Up To 100, Add	0.93	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 15,000, Deduct	-0.13	
For >15,000 To 30,000, Deduct	-0.20	
For >30,000, Deduct	-0.26	
09 01 90 52-0044 SF Prime Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	0.87	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.13	
For >30,000, Deduct	-0.17	
09 01 90 52-0045 SF Paint Wood Surfaces With Linseed Oil, 1 Coat, Surface Preparation.....	1.00	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 15,000, Deduct	-0.09	
For >15,000 To 30,000, Deduct	-0.15	
For >30,000, Deduct	-0.19	
<b>09 01 90 52-0046 Vinyl Siding Surfaces, Surface Preparation (09 01 90 52-0001)</b> .....	0.48	
09 01 90 52-0047 SF Trisodium Phosphate (TSP), Clean, Vinyl Siding Surfaces, Surface Preparation.....	0.48	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.05	
For >15,000 To 30,000, Deduct	-0.07	
For >30,000, Deduct	-0.10	
09 01 90 52-0048 SF Hand Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.75	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.07	
For >15,000 To 30,000, Deduct	-0.11	
For >30,000, Deduct	-0.15	
09 01 90 52-0049 SF 2,000 To 5,000 PSI Pressure Wash, Vinyl Siding Surfaces, Surface Preparation.....	0.45	
For Up To 100, Add	0.25	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 15,000, Deduct	-0.04	
For >15,000 To 30,000, Deduct	-0.06	
For >30,000, Deduct	-0.08	
09 01 90 52-0050 SF Steam Clean, Vinyl Siding Surfaces, Surface Preparation.....	0.83	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 15,000, Deduct	-0.08	
For >15,000 To 30,000, Deduct	-0.12	
For >30,000, Deduct	-0.16	

**09 01 90 52-0051 Plaster/Stucco Surfaces, Surface Preparation (09 01 90 52-0001)**  
 Note: Based on total project quantity.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 01 90 52-0052 SF Trisodium Phosphate (TSP), Clean Plaster/Stucco Surfaces, Surface Preparation .....	0.54	
<i>For Up To 100, Add</i>	0.39	
<i>For &gt;100 To 250, Add</i>	0.18	
<i>For &gt;250 To 500, Add</i>	0.08	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.03	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.05	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.08	
<i>For &gt;30,000, Deduct</i>	-0.11	
09 01 90 52-0053 SF 2,000 To 5,000 PSI Pressure Wash Plaster/Stucco Surfaces, Surface Preparation.....	0.58	
<i>For Up To 100, Add</i>	0.34	
<i>For &gt;100 To 250, Add</i>	0.16	
<i>For &gt;250 To 500, Add</i>	0.07	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.03	
<i>For &gt;10,000 To 15,000, Deduct</i>	-0.05	
<i>For &gt;15,000 To 30,000, Deduct</i>	-0.08	
<i>For &gt;30,000, Deduct</i>	-0.11	
<b>09 01 90 52-0054 Prep Work</b> <small>(09 01 90 52-0001)</small>		
09 01 90 52-0055 SF Citrus Strip, Single Applications.....	1.29	
Note: For removal of up to 40 mils each application (average 5 layers at 8 mils per layer) dried latex and oil-based paint, varnish, lacquer, polyurethane and shellac from wood, metal, and masonry surfaces. Multiple applications may be necessary, refer to manufacturer recommendations		
<b>09 01 90 52-0056 Corrosive Inhibitor Sealant For Concrete</b> <small>(09 01 90 52-0001)</small>		
09 01 90 52-0057 SF Corrosive Inhibitor Sealant For Concrete.....	0.86	
<i>For Up To 100, Add</i>	0.43	
<i>For &gt;100 To 250, Add</i>	0.21	
<i>For &gt;250 To 500, Add</i>	0.09	
<b>09 01 90 61 Repainting</b> <small>(09 01 90)</small>		
09 01 90 61-0001 Touchup and "Spot" Painting Of Surfaces <small>(09 01 90 61)</small>		
Note: For use on individual areas less than 10 SF.		
09 01 90 61-0002 SF "Spot" Paint Drywall, Plaster, Wood And Concrete Surfaces, Per Coat .....	1.63	
<b>09 01 90 91 Paint Restoration</b> <small>(09 01 90)</small>		
09 01 90 91-0001 Paint Removal, Strip To Bare Wood <small>(09 01 90 91)</small>		
09 01 90 91-0002 SF Flat Surfaces, Paint Removal, Strip To Bare Wood .....	8.56	
09 01 90 91-0003 SF Cornices And Decorative Trim To 12" Wide, Paint Removal, Strip To Bare Wood.....	9.12	
<b>09 05 Common Work Results for Finishes</b> <small>(09)</small>		
<b>09 05 61 Common Work Results for Flooring Preparation</b> <small>(09 05)</small>		
<b>09 05 61 13 Moisture Vapor Emission Control</b> <small>(09 05 61)</small>		
09 05 61 13-0001 Moisture Vapor Reduction System (Koester VAP) <small>(09 05 61 13)</small>		
09 05 61 13-0002 EA Up To 200 SF, Water Vapor Emission Control System (Koester VAP 1-2000) .....	3,053.71	
Note: Clear		
09 05 61 13-0003 SF >200 To 500 SF, Water Vapor Emission Control System (Koester VAP 1-2001).....	16.16	
Note: Clear		
09 05 61 13-0004 SF >500 To 1,000 SF, Water Vapor Emission Control System (Koester VAP 1-2002).....	10.78	
Note: Clear		
09 05 61 13-0005 SF >1,000 To 3,000 SF, Water Vapor Emission Control System (Koester VAP 1-2003).....	8.98	
Note: Clear		
09 05 61 13-0006 SF >3,000 SF, Water Vapor Emission Control System (Koester VAP 1-2004).....	7.18	
Note: Clear		
09 05 61 13-0007 Moisture Vapor Transmission Control (Dependable Cutdown® II) <small>(09 05 61 13)</small>		
09 05 61 13-0008 SF 8# Two Coats, Moisture Vapor Transmission Control (Dependable Cutdown® II) .....	4.99	
09 05 61 13-0009 SF 15# Two Coats, Moisture Vapor Transmission Control (Dependable Cutdown® II).....	6.80	
<b>09 05 71 Acoustic Underlayment</b> <small>(09 05)</small>		
09 05 71 00-0001 Tile And Stone Acoustical Underlayment <small>(09 05 71)</small>		
09 05 71 00-0002 SF 5 Mil Tile And Stone Acoustical Underlayment (EasyMat).....	4.55	
<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	0.54	
09 05 71 00-0003 Resilient Floor Acoustical Underlayment <small>(09 05 71)</small>		
09 05 71 00-0004 SF Vinyl, Linoleum, LVT And Vinyl Strip Flooring Acoustical Underlayment (Impacta, Soundseal VC300).....	3.19	
09 05 71 00-0005 SF 2 MM Thick Resilient Plank Floor Acoustical Underlayment (Floormuffler) .....	1.69	
09 05 71 00-0006 SF 0.055" Thick High Density Polyurethane Foam Floor Acoustical Underlayment (Silencer LVT).....	1.62	

09	<b>09 Finishes</b>
	<b>09 20 Plaster and Gypsum Board</b>
	09 05 71 Acoustic Underlayment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**09 20 Plaster and Gypsum Board** (09)

**09 22 Supports for Plaster and Gypsum Board** (09 20)

Note: Per SF of wall area measures one side. Do not deduct for opens of less than 25 SF when calculating total wall square footage.

**09 22 13 Metal Furring** (09 22)

**09 22 13 13 Metal Channel Furring** (09 22 13)

**09 22 13 13-0001 Hat Furring Channel** (09 22 13 13)

Note: Includes clips where required.

**09 22 13 13-0002 Installed On Walls, Hat Furring Channel** (09 22 13 13-0001)

09 22 13 13-0003	SF 7/8", 25 Gauge, 16" On Center, Installed On Walls, Hat Furring Channel .....	4.61	1.94
	<i>For Walls &gt;10' High, Add</i>	0.58	
	<i>For 24" On Center, Deduct</i>	-0.54	
	<i>For 12" On Center, Add</i>	0.73	
	<i>For 22 Gauge, Add</i>	0.66	
	<i>For 20 Gauge, Add</i>	1.07	
09 22 13 13-0004	SF 1-1/2", 25 Gauge, 16" On Center, Installed On Walls, Hat Furring Channel .....	4.90	1.94
	<i>For Walls &gt;10' High, Add</i>	0.58	
	<i>For 24" On Center, Deduct</i>	-0.59	
	<i>For 12" On Center, Add</i>	0.79	
	<i>For 22 Gauge, Add</i>	0.81	
	<i>For 20 Gauge, Add</i>	1.26	

**09 22 13 13-0005 Installed On Columns And Beams, Hat Furring Channel** (09 22 13 13-0001)

09 22 13 13-0006	SF 7/8", 25 Gauge, 16" On Center, Installed On Columns And Beams, Hat Furring Channel .....	6.70	2.97
	<i>For Columns And Beams &gt;10' High, Add</i>	1.19	
	<i>For 24" On Center, Deduct</i>	-0.74	
	<i>For 12" On Center, Add</i>	1.04	
	<i>For 22 Gauge, Add</i>	0.82	
	<i>For 20 Gauge, Add</i>	1.38	
09 22 13 13-0007	SF 1-1/2", 25 Gauge, 16" On Center, Installed On Columns And Beams, Hat Furring Channel .....	6.99	2.97
	<i>For Columns And Beams &gt;10' High, Add</i>	1.19	
	<i>For 24" On Center, Deduct</i>	-0.80	
	<i>For 12" On Center, Add</i>	1.10	
	<i>For 22 Gauge, Add</i>	0.96	
	<i>For 20 Gauge, Add</i>	1.57	

**09 22 13 13-0008 Installed On Ceilings, Hat Furring Channel** (09 22 13 13-0001)

09 22 13 13-0009	SF 7/8", 25 Gauge, 16" On Center, Installed On Ceilings, Hat Furring Channel .....	5.98	2.38
	<i>For Ceilings &gt;10' High, Add</i>	0.71	
	<i>For 24" On Center, Deduct</i>	-0.72	
	<i>For 12" On Center, Add</i>	0.96	
	<i>For 22 Gauge, Add</i>	0.97	
	<i>For 20 Gauge, Add</i>	1.52	
09 22 13 13-0010	SF 1-1/2", 25 Gauge, 16" On Center, Installed On Ceilings, Hat Furring Channel .....	6.27	2.38
	<i>For Ceilings &gt;10' High, Add</i>	0.71	
	<i>For 24" On Center, Deduct</i>	-0.78	
	<i>For 12" On Center, Add</i>	1.02	
	<i>For 22 Gauge, Add</i>	1.11	
	<i>For 20 Gauge, Add</i>	1.71	

**09 22 13 13-0011 Z Furring Channel** (09 22 13 13)

**09 22 13 13-0012 Installed On Walls, Z Furring Channel** (09 22 13 13-0011)

09 22 13 13-0013	SF 1", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel .....	4.18	1.94
	<i>For Walls &gt;10' High, Add</i>	0.58	
	<i>For 24" On Center, Deduct</i>	-0.45	
	<i>For 12" On Center, Add</i>	0.64	
	<i>For 22 Gauge, Add</i>	0.45	
	<i>For 20 Gauge, Add</i>	0.79	
09 22 13 13-0014	SF 1-1/2", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel .....	4.24	1.94
	<i>For Walls &gt;10' High, Add</i>	0.58	
	<i>For 24" On Center, Deduct</i>	-0.46	
	<i>For 12" On Center, Add</i>	0.65	
	<i>For 22 Gauge, Add</i>	0.48	
	<i>For 20 Gauge, Add</i>	0.82	
09 22 13 13-0015	SF 2", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel .....	4.30	1.94
	<i>For Walls &gt;10' High, Add</i>	0.58	
	<i>For 24" On Center, Deduct</i>	-0.47	
	<i>For 12" On Center, Add</i>	0.67	
	<i>For 22 Gauge, Add</i>	0.51	
	<i>For 20 Gauge, Add</i>	0.86	
09 22 13 13-0016	SF 2-1/2", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel .....	4.35	1.94
	<i>For Walls &gt;10' High, Add</i>	0.58	
	<i>For 24" On Center, Deduct</i>	-0.48	
	<i>For 12" On Center, Add</i>	0.68	
	<i>For 22 Gauge, Add</i>	0.53	
	<i>For 20 Gauge, Add</i>	0.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 13 13-0017 SF 3", 25 Gauge, 16" On Center, Installed On Walls, Z Furring Channel .....	4.38	1.94
<i>For Walls &gt;10' High, Add</i>	0.58	
<i>For 24" On Center, Deduct</i>	-0.49	
<i>For 12" On Center, Add</i>	0.68	
<i>For 22 Gauge, Add</i>	0.55	
<i>For 20 Gauge, Add</i>	0.92	
<b>09 22 13 23 Resilient Channel Furring</b> (09 22 13)		
09 22 13 23-0001 Single-Leg Resilient Channel, RC1 Furring Channel (09 22 13 23)		
Note: Includes clips where required.		
09 22 13 23-0002 Installed On Walls, Single-Leg Resilient Channel, RC1 Furring Channel (09 22 13 23-0001)		
09 22 13 23-0003 SF 25 Gauge, 16" On Center, Installed On Walls, Single-Leg Resilient Channel, RC1 Furring Channel.....	4.54	1.94
<i>For Walls &gt;10' High, Add</i>	0.58	
<i>For 24" On Center, Deduct</i>	-0.52	
<i>For 12" On Center, Add</i>	0.71	
<i>For 20 Gauge, Add</i>	1.02	
09 22 13 23-0004 Installed On Ceilings, Single-Leg Resilient Channel, RC1 Furring Channel (09 22 13 23-0001)		
09 22 13 23-0005 SF 25 Gauge, 16" On Center, Installed On Ceilings, Single-Leg Resilient Channel, RC1 Furring Channel.....	5.43	2.38
<i>For Ceilings &gt;10' High, Add</i>	0.71	
<i>For 24" On Center, Deduct</i>	-0.61	
<i>For 12" On Center, Add</i>	0.85	
<i>For 20 Gauge, Add</i>	1.16	
09 22 13 23-0006 Double-Leg Resilient Channel, RC2 Furring Channel (09 22 13 23)		
Note: Includes clips where required.		
09 22 13 23-0007 Installed On Walls, Double-Leg Resilient Channel, RC2 Furring Channel (09 22 13 23-0006)		
09 22 13 23-0008 SF 25 Gauge, 16" On Center, Installed On Walls, Double-Leg Resilient Channel, RC2 Furring Channel .....	4.79	1.94
<i>For Walls &gt;10' High, Add</i>	0.58	
<i>For 24" On Center, Deduct</i>	-0.57	
<i>For 12" On Center, Add</i>	0.76	
<i>For 20 Gauge, Add</i>	1.19	
09 22 13 23-0009 Installed On Ceilings, Double-Leg Resilient Channel, RC2 Furring Channel (09 22 13 23-0006)		
09 22 13 23-0010 SF 25 Gauge, 16" On Center, Installed On Ceilings, Double-Leg Resilient Channel, RC2 Furring Channel .....	5.68	2.38
<i>For Ceilings &gt;10' High, Add</i>	0.71	
<i>For 24" On Center, Deduct</i>	-0.66	
<i>For 12" On Center, Add</i>	0.90	
<i>For 20 Gauge, Add</i>	1.32	
<b>09 22 16 Non-Structural Metal Framing</b> (09 22)		
Note: Includes studs, bridging, fasteners, and metal stiffener at half height. Do not deduct for openings of less than 25 SF.		
<b>09 22 16 13 Non-Structural Metal Stud Framing</b> (09 22 16)		
09 22 16 13-0001 25 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners (09 22 16 13)		
09 22 16 13-0002 SF 1-5/8" Width, 16" On Center, 25 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners .....	2.85	0.81
<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
<i>For Walls &gt;10' High, Add</i>	0.57	
<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	1.89	
<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	2.50	
<i>For Horizontal Installation Up To 10' High, Add</i>	0.59	
<i>For Horizontal Installation &gt;10' High, Add</i>	0.79	
<i>For Curved Wall, Add</i>	0.60	
<i>For 12" On Center, Add</i>	0.47	
<i>For 24" On Center, Deduct</i>	-0.47	
<i>For Up To 100, Add</i>	0.97	
<i>For &gt;100 To 300, Add</i>	0.49	
<i>For &gt;1,000, Deduct</i>	-0.23	
09 22 16 13-0003 SF 2-1/2" Width, 16" On Center, 25 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	3.04	0.84
<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
<i>For Walls &gt;10' High, Add</i>	0.61	
<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	1.99	
<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	2.63	
<i>For Horizontal Installation Up To 10' High, Add</i>	0.62	
<i>For Horizontal Installation &gt;10' High, Add</i>	0.83	
<i>For Curved Wall, Add</i>	0.63	
<i>For 12" On Center, Add</i>	0.50	
<i>For 24" On Center, Deduct</i>	-0.50	
<i>For Up To 100, Add</i>	1.03	
<i>For &gt;100 To 300, Add</i>	0.52	
<i>For &gt;1,000, Deduct</i>	-0.25	

**09 Finishes****09 20 Plaster and Gypsum Board****09 22 Supports for Plaster and Gypsum Board**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 16 13-0004	SF		3-5/8" Width, 16" On Center, 25 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	3.29	0.88
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	0.66	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.11	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	2.77	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.66	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.88	
			<i>For Curved Wall, Add</i>	0.67	
			<i>For 12" On Center, Add</i>	0.55	
			<i>For 24" On Center, Deduct</i>	-0.55	
			<i>For Up To 100, Add</i>	1.10	
			<i>For &gt;100 To 300, Add</i>	0.55	
			<i>For &gt;1,000, Deduct</i>	-0.27	
09 22 16 13-0005	SF		4" Width, 16" On Center, 25 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	3.49	0.92
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	0.70	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.21	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	2.90	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.70	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.93	
			<i>For Curved Wall, Add</i>	0.70	
			<i>For 12" On Center, Add</i>	0.58	
			<i>For 24" On Center, Deduct</i>	-0.58	
			<i>For Up To 100, Add</i>	1.16	
			<i>For &gt;100 To 300, Add</i>	0.58	
			<i>For &gt;1,000, Deduct</i>	-0.29	
09 22 16 13-0006	SF		6" Width, 16" On Center, 25 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	3.87	0.97
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	0.77	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.34	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	3.07	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.75	
			<i>For Horizontal Installation &gt;10' High, Add</i>	1.00	
			<i>For Curved Wall, Add</i>	0.73	
			<i>For 12" On Center, Add</i>	0.65	
			<i>For 24" On Center, Deduct</i>	-0.65	
			<i>For Up To 100, Add</i>	1.26	
			<i>For &gt;100 To 300, Add</i>	0.63	
			<i>For &gt;1,000, Deduct</i>	-0.34	
09 22 16 13-0007			<b>20 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners</b> (09 22 16 13)		
09 22 16 13-0008	SF		1-5/8" Width, 16" On Center, 20 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	3.17	0.82
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	0.63	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	1.97	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	2.58	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.63	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.83	
			<i>For Curved Wall, Add</i>	0.62	
			<i>For 12" On Center, Add</i>	0.53	
			<i>For 24" On Center, Deduct</i>	-0.53	
			<i>For Up To 100, Add</i>	1.05	
			<i>For &gt;100 To 300, Add</i>	0.52	
			<i>For &gt;1,000, Deduct</i>	-0.27	
09 22 16 13-0009	SF		2-1/2" Width, 16" On Center, 20 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	3.46	0.87
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	0.69	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.08	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	2.73	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.67	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.89	
			<i>For Curved Wall, Add</i>	0.65	
			<i>For 12" On Center, Add</i>	0.58	
			<i>For 24" On Center, Deduct</i>	-0.58	
			<i>For Up To 100, Add</i>	1.13	
			<i>For &gt;100 To 300, Add</i>	0.56	
			<i>For &gt;1,000, Deduct</i>	-0.30	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Plaster and Gypsum Board	09 20	
Supports for Plaster and Gypsum Board	09 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 16 13-0010 SF 3-5/8" Width, 16" On Center, 20 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	3.79	0.90
For Powder-Actuated Fasteners Every 2', Add	0.06	
For Walls >10' High, Add	0.76	
For Soffit, Columns Or Beams Up To 10' High, Add	2.20	
For Soffit, Columns Or Beams >10' High, Add	2.88	
For Horizontal Installation Up To 10' High, Add	0.72	
For Horizontal Installation >10' High, Add	0.95	
For Curved Wall, Add	0.68	
For 12" On Center, Add	0.64	
For 24" On Center, Deduct	-0.64	
For Up To 100, Add	1.21	
For >100 To 300, Add	0.61	
For >1,000, Deduct	-0.34	
09 22 16 13-0011 SF 4" Width, 16" On Center, 20 Gauge, Non-Load Bearing, Non-Structural Structural, Galvanized Steel Framing With Tracks And Runners.....	4.03	0.95
For Powder-Actuated Fasteners Every 2', Add	0.06	
For Walls >10' High, Add	0.81	
For Soffit, Columns Or Beams Up To 10' High, Add	2.31	
For Soffit, Columns Or Beams >10' High, Add	3.02	
For Horizontal Installation Up To 10' High, Add	0.76	
For Horizontal Installation >10' High, Add	1.00	
For Curved Wall, Add	0.71	
For 12" On Center, Add	0.69	
For 24" On Center, Deduct	-0.69	
For Up To 100, Add	1.28	
For >100 To 300, Add	0.64	
For >1,000, Deduct	-0.37	
09 22 16 13-0012 SF 6" Width, 16" On Center, 20 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	5.43	1.00
For Powder-Actuated Fasteners Every 2', Add	0.06	
For Walls >10' High, Add	1.09	
For Soffit, Columns Or Beams Up To 10' High, Add	2.54	
For Soffit, Columns Or Beams >10' High, Add	3.29	
For Horizontal Installation Up To 10' High, Add	0.92	
For Horizontal Installation >10' High, Add	1.17	
For Curved Wall, Add	0.75	
For 12" On Center, Add	0.96	
For 24" On Center, Deduct	-0.96	
For Up To 100, Add	1.59	
For >100 To 300, Add	0.79	
For >1,000, Deduct	-0.56	
<b>09 22 16 13-0013 18 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners</b> (09 22 16 13)		
09 22 16 13-0014 SF 2-1/2" Width, 16" On Center, 18 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	4.61	0.88
For Powder-Actuated Fasteners Every 2', Add	0.06	
For Walls >10' High, Add	0.92	
For Soffit, Columns Or Beams Up To 10' High, Add	2.24	
For Soffit, Columns Or Beams >10' High, Add	2.90	
For Horizontal Installation Up To 10' High, Add	0.79	
For Horizontal Installation >10' High, Add	1.02	
For Curved Wall, Add	0.67	
For 12" On Center, Add	0.81	
For 24" On Center, Deduct	-0.81	
For Up To 100, Add	1.37	
For >100 To 300, Add	0.68	
For >1,000, Deduct	-0.47	
09 22 16 13-0015 SF 3-5/8" Width, 16" On Center, 18 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	5.07	0.92
For Powder-Actuated Fasteners Every 2', Add	0.06	
For Walls >10' High, Add	1.01	
For Soffit, Columns Or Beams Up To 10' High, Add	2.37	
For Soffit, Columns Or Beams >10' High, Add	3.07	
For Horizontal Installation Up To 10' High, Add	0.86	
For Horizontal Installation >10' High, Add	1.09	
For Curved Wall, Add	0.70	
For 12" On Center, Add	0.90	
For 24" On Center, Deduct	-0.90	
For Up To 100, Add	1.48	
For >100 To 300, Add	0.74	
For >1,000, Deduct	-0.53	

## 09 Finishes

## 09 20 Plaster and Gypsum Board

## 09 22 Supports for Plaster and Gypsum Board



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 16 13-0016	SF		4" Width, 16" On Center, 18 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	5.42	0.97
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	1.08	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.49	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	3.23	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.91	
			<i>For Horizontal Installation &gt;10' High, Add</i>	1.15	
			<i>For Curved Wall, Add</i>	0.73	
			<i>For 12" On Center, Add</i>	0.96	
			<i>For 24" On Center, Deduct</i>	-0.96	
			<i>For Up To 100, Add</i>	1.57	
			<i>For &gt;100 To 300, Add</i>	0.79	
			<i>For &gt;1,000, Deduct</i>	-0.57	
09 22 16 13-0017	SF		6" Width, 16" On Center, 18 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	6.95	1.02
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	1.39	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.75	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	3.52	
			<i>For Horizontal Installation Up To 10' High, Add</i>	1.08	
			<i>For Horizontal Installation &gt;10' High, Add</i>	1.34	
			<i>For Curved Wall, Add</i>	0.77	
			<i>For 12" On Center, Add</i>	1.26	
			<i>For 24" On Center, Deduct</i>	-1.26	
			<i>For Up To 100, Add</i>	1.90	
			<i>For &gt;100 To 300, Add</i>	0.95	
			<i>For &gt;1,000, Deduct</i>	-0.79	
09 22 16 13-0018	SF		8" Width, 16" On Center, 18 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	7.54	1.09
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	1.51	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.91	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	3.71	
			<i>For Horizontal Installation Up To 10' High, Add</i>	1.16	
			<i>For Horizontal Installation &gt;10' High, Add</i>	1.43	
			<i>For Curved Wall, Add</i>	0.81	
			<i>For 12" On Center, Add</i>	1.37	
			<i>For 24" On Center, Deduct</i>	-1.37	
			<i>For Up To 100, Add</i>	2.05	
			<i>For &gt;100 To 300, Add</i>	1.02	
			<i>For &gt;1,000, Deduct</i>	-0.86	
09 22 16 13-0019			<b>16 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners</b> (09 22 16 13)		
09 22 16 13-0020	SF		2-1/2" Width, 16" On Center, 16 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	4.87	0.90
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	0.97	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.30	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	2.98	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.83	
			<i>For Horizontal Installation &gt;10' High, Add</i>	1.05	
			<i>For Curved Wall, Add</i>	0.68	
			<i>For 12" On Center, Add</i>	0.86	
			<i>For 24" On Center, Deduct</i>	-0.86	
			<i>For Up To 100, Add</i>	1.43	
			<i>For &gt;100 To 300, Add</i>	0.71	
			<i>For &gt;1,000, Deduct</i>	-0.50	
09 22 16 13-0021	SF		3-5/8" Width, 16" On Center, 16 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	5.67	0.95
			<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
			<i>For Walls &gt;10' High, Add</i>	1.13	
			<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.47	
			<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	3.19	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.92	
			<i>For Horizontal Installation &gt;10' High, Add</i>	1.16	
			<i>For Curved Wall, Add</i>	0.71	
			<i>For 12" On Center, Add</i>	1.02	
			<i>For 24" On Center, Deduct</i>	-1.02	
			<i>For Up To 100, Add</i>	1.61	
			<i>For &gt;100 To 300, Add</i>	0.81	
			<i>For &gt;1,000, Deduct</i>	-0.61	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 16 13-0022	SF			4" Width, 16" On Center, 16 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	5.99	1.00
				<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
				<i>For Walls &gt;10' High, Add</i>	1.20	
				<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.60	
				<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	3.35	
				<i>For Horizontal Installation Up To 10' High, Add</i>	0.97	
				<i>For Horizontal Installation &gt;10' High, Add</i>	1.22	
				<i>For Curved Wall, Add</i>	0.75	
				<i>For 12" On Center, Add</i>	1.07	
				<i>For 24" On Center, Deduct</i>	-1.07	
				<i>For Up To 100, Add</i>	1.70	
				<i>For &gt;100 To 300, Add</i>	0.85	
				<i>For &gt;1,000, Deduct</i>	-0.65	
09 22 16 13-0023	SF			6" Width, 16" On Center, 16 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	7.46	1.05
				<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
				<i>For Walls &gt;10' High, Add</i>	1.49	
				<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	2.85	
				<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	3.64	
				<i>For Horizontal Installation Up To 10' High, Add</i>	1.14	
				<i>For Horizontal Installation &gt;10' High, Add</i>	1.40	
				<i>For Curved Wall, Add</i>	0.79	
				<i>For 12" On Center, Add</i>	1.36	
				<i>For 24" On Center, Deduct</i>	-1.36	
				<i>For Up To 100, Add</i>	2.02	
				<i>For &gt;100 To 300, Add</i>	1.01	
				<i>For &gt;1,000, Deduct</i>	-0.86	
09 22 16 13-0024	SF			8" Width, 16" On Center, 16 Gauge, Non-Load Bearing, Non-Structural, Galvanized Steel Stud Framing With Tracks And Runners.....	8.19	1.11
				<i>For Powder-Actuated Fasteners Every 2', Add</i>	0.06	
				<i>For Walls &gt;10' High, Add</i>	1.64	
				<i>For Soffit, Columns Or Beams Up To 10' High, Add</i>	3.03	
				<i>For Soffit, Columns Or Beams &gt;10' High, Add</i>	3.86	
				<i>For Horizontal Installation Up To 10' High, Add</i>	1.23	
				<i>For Horizontal Installation &gt;10' High, Add</i>	1.51	
				<i>For Curved Wall, Add</i>	0.83	
				<i>For 12" On Center, Add</i>	1.50	
				<i>For 24" On Center, Deduct</i>	-1.50	
				<i>For Up To 100, Add</i>	2.19	
				<i>For &gt;100 To 300, Add</i>	1.10	
				<i>For &gt;1,000, Deduct</i>	-0.95	
<b>09 22 16 13-0025 Galvanized Steel Backing Plates</b> <small>(09 22 16 13)</small>						
Note: Used to attach fixtures, cabinets, shelves or handrails to metal stud walls.						
09 22 16 13-0026	LF			3" Wide, 25 Gauge Galvanized Steel Backing Plate.....	1.59	
09 22 16 13-0027	LF			4" Wide, 25 Gauge Galvanized Steel Backing Plate.....	1.94	
09 22 16 13-0028	LF			6" Wide, 25 Gauge Galvanized Steel Backing Plate.....	2.48	
09 22 16 13-0029	LF			8" Wide, 25 Gauge Galvanized Steel Backing Plate.....	3.03	
09 22 16 13-0030	LF			10" Wide, 25 Gauge Galvanized Steel Backing Plate.....	3.57	
09 22 16 13-0031	LF			12" Wide, 25 Gauge Galvanized Steel Backing Plate.....	4.25	
09 22 16 13-0032	LF			3" Wide, 20 Gauge Galvanized Steel Backing Plate.....	2.03	
09 22 16 13-0033	LF			4" Wide, 20 Gauge Galvanized Steel Backing Plate.....	2.51	
09 22 16 13-0034	LF			6" Wide, 20 Gauge Galvanized Steel Backing Plate.....	3.34	
09 22 16 13-0035	LF			8" Wide, 20 Gauge Galvanized Steel Backing Plate.....	4.15	
09 22 16 13-0036	LF			10" Wide, 20 Gauge Galvanized Steel Backing Plate.....	5.00	
09 22 16 13-0037	LF			12" Wide, 20 Gauge Galvanized Steel Backing Plate.....	5.94	
09 22 16 13-0038	LF			3" Wide, 16 Gauge Galvanized Steel Backing Plate.....	2.75	
09 22 16 13-0039	LF			4" Wide, 16 Gauge Galvanized Steel Backing Plate.....	3.42	
09 22 16 13-0040	LF			6" Wide, 16 Gauge Galvanized Steel Backing Plate.....	4.62	
09 22 16 13-0041	LF			8" Wide, 16 Gauge Galvanized Steel Backing Plate.....	5.83	
09 22 16 13-0042	LF			10" Wide, 16 Gauge Galvanized Steel Backing Plate.....	7.14	
09 22 16 13-0043	LF			12" Wide, 16 Gauge Galvanized Steel Backing Plate.....	8.41	
09 22 16 13-0044	LF			3" Wide, 14 Gauge Galvanized Steel Backing Plate.....	3.24	
09 22 16 13-0045	LF			4" Wide, 14 Gauge Galvanized Steel Backing Plate.....	4.06	
09 22 16 13-0046	LF			6" Wide, 14 Gauge Galvanized Steel Backing Plate.....	5.58	
09 22 16 13-0047	LF			8" Wide, 14 Gauge Galvanized Steel Backing Plate.....	7.11	
09 22 16 13-0048	LF			10" Wide, 14 Gauge Galvanized Steel Backing Plate.....	8.74	
09 22 16 13-0049	LF			12" Wide, 14 Gauge Galvanized Steel Backing Plate.....	10.33	
<b>09 22 36 Lath</b> <small>(09 22)</small>						
<b>09 22 36 13 Gypsum Lath</b> <small>(09 22 36)</small>						
<b>09 22 36 13-0001 Plaster Base Gypsum Panels</b> <small>(09 22 36 13)</small>						
09 22 36 13-0002	SF			3/8" Thick, Installed On Studs Or Furred Walls, Plaster Base Gypsum Panel.....	1.62	0.53
				<i>For Walls &gt;10' High, Add</i>	0.14	
				<i>For Up To 100, Add</i>	0.54	
				<i>For &gt;100 To 500, Add</i>	0.27	
				<i>For &gt;5,000, Deduct</i>	-0.11	

**09 Finishes**

**09 20 Plaster and Gypsum Board**

**09 22 Supports for Plaster and Gypsum Board**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 36 13-0003	SF		1/2" Thick, Installed On Studs Or Furred Walls, Plaster Base Gypsum Panel.....	2.23	0.62
			<i>For Walls &gt;10' High, Add</i>	0.16	
			<i>For Up To 100, Add</i>	0.62	
			<i>For &gt;100 To 500, Add</i>	0.31	
			<i>For &gt;5,000, Deduct</i>	-0.12	
09 22 36 13-0004	SF		5/8" Thick, Installed On Studs Or Furred Walls, Plaster Base Gypsum Panel.....	2.86	0.71
			<i>For Walls &gt;10' High, Add</i>	0.18	
			<i>For Up To 100, Add</i>	0.71	
			<i>For &gt;100 To 500, Add</i>	0.36	
			<i>For &gt;5,000, Deduct</i>	-0.14	
09 22 36 13-0005	SF		3/8" Thick, Installed On Ceiling, Plaster Base Gypsum Panel.....	2.04	0.75
			<i>For Ceilings &gt;10' High, Add</i>	0.23	
			<i>For Up To 100, Add</i>	0.75	
			<i>For &gt;100 To 500, Add</i>	0.38	
			<i>For &gt;5,000, Deduct</i>	-0.15	
09 22 36 13-0006	SF		1/2" Thick, Installed On Ceiling, Plaster Base Gypsum Panel.....	2.73	0.86
			<i>For Ceilings &gt;10' High, Add</i>	0.26	
			<i>For Up To 100, Add</i>	0.87	
			<i>For &gt;100 To 500, Add</i>	0.44	
			<i>For &gt;5,000, Deduct</i>	-0.17	
09 22 36 13-0007	SF		5/8" Thick, Installed On Ceiling, Plaster Base Gypsum Panel.....	3.43	1.00
			<i>For Ceilings &gt;10' High, Add</i>	0.30	
			<i>For Up To 100, Add</i>	1.00	
			<i>For &gt;100 To 500, Add</i>	0.50	
			<i>For &gt;5,000, Deduct</i>	-0.20	
09 22 36 13-0008	SF		3/8" Thick, Installed On Columns And Beams, Plaster Base Gypsum Panel.....	2.47	0.96
			<i>For Columns And Beams &gt;10' High, Add</i>	0.29	
			<i>For Up To 100, Add</i>	0.97	
			<i>For &gt;100 To 500, Add</i>	0.48	
			<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 13-0009	SF		1/2" Thick, Installed On Columns And Beams, Plaster Base Gypsum Panel.....	3.22	1.12
			<i>For Columns And Beams &gt;10' High, Add</i>	0.33	
			<i>For Up To 100, Add</i>	1.12	
			<i>For &gt;100 To 500, Add</i>	0.56	
			<i>For &gt;5,000, Deduct</i>	-0.22	
09 22 36 13-0010	SF		5/8" Thick, Installed On Columns And Beams, Plaster Base Gypsum Panel.....	3.99	1.29
			<i>For Columns And Beams &gt;10' High, Add</i>	0.38	
			<i>For Up To 100, Add</i>	1.28	
			<i>For &gt;100 To 500, Add</i>	0.64	
			<i>For &gt;5,000, Deduct</i>	-0.26	
<b>09 22 36 13-0011 Firestop Plaster Base Gypsum Panels (09 22 36 13)</b>					
09 22 36 13-0012	SF		3/8" Thick, Installed On Studs Or Furred Walls, Firestop Plaster Base Gypsum Panel.....	2.27	0.53
			<i>For Walls &gt;10' High, Add</i>	0.14	
			<i>For Up To 100, Add</i>	0.54	
			<i>For &gt;100 To 500, Add</i>	0.27	
			<i>For &gt;5,000, Deduct</i>	-0.11	
09 22 36 13-0013	SF		1/2" Thick, Installed On Studs Or Furred Walls, Firestop Plaster Base Gypsum Panel.....	2.63	0.62
			<i>For Walls &gt;10' High, Add</i>	0.16	
			<i>For Up To 100, Add</i>	0.62	
			<i>For &gt;100 To 500, Add</i>	0.31	
			<i>For &gt;5,000, Deduct</i>	-0.12	
09 22 36 13-0014	SF		3/8" Thick, Installed On Ceilings, Firestop Plaster Base Gypsum Panel.....	2.69	0.75
			<i>For Ceilings &gt;10' High, Add</i>	0.23	
			<i>For Up To 100, Add</i>	0.75	
			<i>For &gt;100 To 500, Add</i>	0.38	
			<i>For &gt;5,000, Deduct</i>	-0.15	
09 22 36 13-0015	SF		1/2" Thick, Installed On Ceilings, Firestop Plaster Base Gypsum Panel.....	3.13	0.86
			<i>For Ceilings &gt;10' High, Add</i>	0.26	
			<i>For Up To 100, Add</i>	0.87	
			<i>For &gt;100 To 500, Add</i>	0.44	
			<i>For &gt;5,000, Deduct</i>	-0.17	
09 22 36 13-0016	SF		3/8" Thick, Installed On Columns And Beams, Firestop Plaster Base Gypsum Panel.....	3.12	0.96
			<i>For Columns And Beams &gt;10' High, Add</i>	0.29	
			<i>For Up To 100, Add</i>	0.97	
			<i>For &gt;100 To 500, Add</i>	0.48	
			<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 13-0017	SF		1/2" Thick, Installed On Columns And Beams, Firestop Plaster Base Gypsum Panel.....	3.62	1.12
			<i>For Columns And Beams &gt;10' High, Add</i>	0.33	
			<i>For Up To 100, Add</i>	1.12	
			<i>For &gt;100 To 500, Add</i>	0.56	
			<i>For &gt;5,000, Deduct</i>	-0.22	
<b>09 22 36 13-0018 Foil Back Plaster Base Gypsum Panels (09 22 36 13)</b>					
09 22 36 13-0019	SF		3/8" Thick, Installed On Studs Or Furred Walls, Foil Back Plaster Base Gypsum Panel.....	2.27	0.53
			<i>For Walls &gt;10' High, Add</i>	0.14	
			<i>For Up To 100, Add</i>	0.54	
			<i>For &gt;100 To 500, Add</i>	0.27	
			<i>For &gt;5,000, Deduct</i>	-0.11	
09 22 36 13-0020	SF		1/2" Thick, Installed On Studs Or Furred Walls, Foil Back Plaster Base Gypsum Panel.....	2.63	0.62
			<i>For Walls &gt;10' High, Add</i>	0.16	
			<i>For Up To 100, Add</i>	0.62	
			<i>For &gt;100 To 500, Add</i>	0.31	
			<i>For &gt;5,000, Deduct</i>	-0.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 36 13-0021 SF 3/8" Thick, Installed On Ceiling, Foil Back Plaster Base Gypsum Panel .....	2.69	0.75
<i>For Ceilings &gt;10' High, Add</i>	0.23	
<i>For Up To 100, Add</i>	0.75	
<i>For &gt;100 To 500, Add</i>	0.38	
<i>For &gt;5,000, Deduct</i>	-0.15	
09 22 36 13-0022 SF 1/2" Thick, Installed On Ceiling, Foil Back Plaster Base Gypsum Panel .....	3.13	0.86
<i>For Ceilings &gt;10' High, Add</i>	0.26	
<i>For Up To 100, Add</i>	0.87	
<i>For &gt;100 To 500, Add</i>	0.44	
<i>For &gt;5,000, Deduct</i>	-0.17	
09 22 36 13-0023 SF 3/8" Thick, Installed On Columns And Beams, Foil Back Plaster Base Gypsum Panel .....	3.12	0.96
<i>For Columns And Beams &gt;10' High, Add</i>	0.29	
<i>For Up To 100, Add</i>	0.97	
<i>For &gt;100 To 500, Add</i>	0.48	
<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 13-0024 SF 1/2" Thick, Installed On Columns And Beams, Foil Back Plaster Base Gypsum Panel .....	3.62	1.12
<i>For Columns And Beams &gt;10' High, Add</i>	0.33	
<i>For Up To 100, Add</i>	1.12	
<i>For &gt;100 To 500, Add</i>	0.56	
<i>For &gt;5,000, Deduct</i>	-0.22	

**09 22 36 23 Metal Lath** (09 22 36)

**09 22 36 23-0001 Flat Diamond, Expanded Metal Lath** (09 22 36 23)

09 22 36 23-0002 SF 1.75 LB/SY, Installed On Studs Or Furred Walls, Flat Diamond, Expanded Metal Lath .....	2.57	0.74
<i>For Walls &gt;10' High, Add</i>	0.21	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.83	
<i>For &gt;100 To 500, Add</i>	0.42	
<i>For &gt;5,000, Deduct</i>	-0.17	
09 22 36 23-0003 SF 2 LB/SY, Installed On Studs Or Furred Walls, Flat Diamond, Expanded Metal Lath .....	2.70	0.74
<i>For Walls &gt;10' High, Add</i>	0.21	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.83	
<i>For &gt;100 To 500, Add</i>	0.42	
<i>For &gt;5,000, Deduct</i>	-0.17	
09 22 36 23-0004 SF 2.5 LB/SY, Installed On Studs Or Furred Walls, Flat Diamond, Expanded Metal Lath .....	2.83	0.74
<i>For Walls &gt;10' High, Add</i>	0.21	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.83	
<i>For &gt;100 To 500, Add</i>	0.42	
<i>For &gt;5,000, Deduct</i>	-0.17	
09 22 36 23-0005 SF 3.4 LB/SY, Installed On Studs Or Furred Walls, Flat Diamond, Expanded Metal Lath .....	3.26	0.79
<i>For Walls &gt;10' High, Add</i>	0.22	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.89	
<i>For &gt;100 To 500, Add</i>	0.44	
<i>For &gt;5,000, Deduct</i>	-0.18	
09 22 36 23-0006 SF 1.75 LB/SY, Installed On Ceiling, Flat Diamond, Expanded Metal Lath .....	2.80	0.84
<i>For Ceilings &gt;10' High, Add</i>	0.28	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.95	
<i>For &gt;100 To 500, Add</i>	0.47	
<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 23-0007 SF 2 LB/SY, Installed On Ceiling, Flat Diamond, Expanded Metal Lath .....	2.93	0.84
<i>For Ceilings &gt;10' High, Add</i>	0.28	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.95	
<i>For &gt;100 To 500, Add</i>	0.47	
<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 23-0008 SF 2.5 LB/SY, Installed On Ceiling, Flat Diamond, Expanded Metal Lath .....	3.06	0.84
<i>For Ceilings &gt;10' High, Add</i>	0.28	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.95	
<i>For &gt;100 To 500, Add</i>	0.47	
<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 23-0009 SF 3.4 LB/SY, Installed On Ceiling, Flat Diamond, Expanded Metal Lath .....	3.38	0.84
<i>For Ceilings &gt;10' High, Add</i>	0.28	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	0.95	
<i>For &gt;100 To 500, Add</i>	0.47	
<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 23-0010 SF 1.75 LB/SY, Installed On Columns And Beams, Flat Diamond, Expanded Metal Lath .....	3.65	1.20
<i>For Columns And Beams &gt;10' High, Add</i>	0.40	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	1.32	
<i>For &gt;100 To 500, Add</i>	0.66	
<i>For &gt;5,000, Deduct</i>	-0.26	
09 22 36 23-0011 SF 2 LB/SY, Installed On Columns And Beams, Flat Diamond, Expanded Metal Lath .....	3.78	1.20
<i>For Columns And Beams &gt;10' High, Add</i>	0.40	
<i>For Paper Backed Lath, Add</i>	0.06	
<i>For Up To 100, Add</i>	1.32	
<i>For &gt;100 To 500, Add</i>	0.66	
<i>For &gt;5,000, Deduct</i>	-0.26	

**09 Finishes****09 20 Plaster and Gypsum Board****09 22 Supports for Plaster and Gypsum Board**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 22 36 23-0012	SF		2.5 LB/SY, Installed On Columns And Beams, Flat Diamond, Expanded Metal Lath .....	3.91	1.20
			<i>For Columns And Beams &gt;10' High, Add</i>	0.40	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.32	
			<i>For &gt;100 To 500, Add</i>	0.66	
			<i>For &gt;5,000, Deduct</i>	-0.26	
09 22 36 23-0013	SF		3.4 LB/SY, Installed On Columns And Beams, Flat Diamond, Expanded Metal Lath .....	4.91	1.50
			<i>For Columns And Beams &gt;10' High, Add</i>	0.50	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.66	
			<i>For &gt;100 To 500, Add</i>	0.83	
			<i>For &gt;5,000, Deduct</i>	-0.33	
<b>09 22 36 23-0014</b>			<b>Self Furring, Flat Diamond, Expanded Metal Lath</b> <small>(09 22 36 23)</small>		
09 22 36 23-0015	SF		1.75 LB/SY, Installed On Solid Wall Surface, Self Furring, Flat Diamond, Expanded Metal Lath .....	2.68	0.79
			<i>For Walls &gt;10' High, Add</i>	0.22	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.89	
			<i>For &gt;100 To 500, Add</i>	0.44	
			<i>For &gt;5,000, Deduct</i>	-0.18	
09 22 36 23-0016	SF		2.0 LB/SY, Installed On Solid Wall Surface, Self Furring, Flat Diamond, Expanded Metal Lath .....	2.81	0.79
			<i>For Walls &gt;10' High, Add</i>	0.22	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.89	
			<i>For &gt;100 To 500, Add</i>	0.44	
			<i>For &gt;5,000, Deduct</i>	-0.18	
09 22 36 23-0017	SF		2.5 LB/SY, Installed On Solid Wall Surface, Self Furring, Flat Diamond, Expanded Metal Lath .....	2.94	0.79
			<i>For Walls &gt;10' High, Add</i>	0.22	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.89	
			<i>For &gt;100 To 500, Add</i>	0.44	
			<i>For &gt;5,000, Deduct</i>	-0.18	
09 22 36 23-0018	SF		3.4 LB/SY, Installed On Solid Wall Surface, Self Furring, Flat Diamond, Expanded Metal Lath .....	3.26	0.79
			<i>For Walls &gt;10' High, Add</i>	0.22	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.89	
			<i>For &gt;100 To 500, Add</i>	0.44	
			<i>For &gt;5,000, Deduct</i>	-0.18	
09 22 36 23-0019	SF		1.75 LB/SY, Installed On Columns And Beams, Self Furring, Flat Diamond, Expanded Metal Lath .....	4.32	1.50
			<i>For Columns And Beams &gt;10' High, Add</i>	0.50	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.66	
			<i>For &gt;100 To 500, Add</i>	0.83	
			<i>For &gt;5,000, Deduct</i>	-0.33	
09 22 36 23-0020	SF		2.0 LB/SY, Installed On Columns And Beams, Self Furring, Flat Diamond, Expanded Metal Lath .....	4.45	1.50
			<i>For Columns And Beams &gt;10' High, Add</i>	0.50	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.66	
			<i>For &gt;100 To 500, Add</i>	0.83	
			<i>For &gt;5,000, Deduct</i>	-0.33	
09 22 36 23-0021	SF		2.5 LB/SY, Installed On Columns And Beams, Self Furring, Flat Diamond, Expanded Metal Lath .....	4.58	1.50
			<i>For Columns And Beams &gt;10' High, Add</i>	0.50	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.66	
			<i>For &gt;100 To 500, Add</i>	0.83	
			<i>For &gt;5,000, Deduct</i>	-0.33	
09 22 36 23-0022	SF		3.4 LB/SY, Installed On Columns And Beams, Self Furring, Flat Diamond, Expanded Metal Lath .....	5.38	1.71
			<i>For Columns And Beams &gt;10' High, Add</i>	0.57	
			<i>For Paper Backed Lath, Add</i>	0.06	
			<i>For Up To 100, Add</i>	1.89	
			<i>For &gt;100 To 500, Add</i>	0.95	
			<i>For &gt;5,000, Deduct</i>	-0.38	
<b>09 22 36 23-0023</b>			<b>High Rib Metal Lath</b> <small>(09 22 36 23)</small>		
09 22 36 23-0024	SF		2.75 LB/SY, Installed On Ceiling, 1/8" High Rib Metal Lath .....	3.16	0.84
			<i>For Ceilings &gt;10' High, Add</i>	0.28	
			<i>For Up To 100, Add</i>	0.95	
			<i>For &gt;100 To 500, Add</i>	0.47	
			<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 23-0025	SF		3.4 LB/SY, Installed On Ceiling, 1/8" High Rib Metal Lath .....	3.35	0.84
			<i>For Ceilings &gt;10' High, Add</i>	0.28	
			<i>For Up To 100, Add</i>	0.95	
			<i>For &gt;100 To 500, Add</i>	0.47	
			<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 23-0026	SF		3.4 LB/SY, Installed On Ceiling, 3/8" High Rib Metal Lath .....	3.46	0.84
			<i>For Ceilings &gt;10' High, Add</i>	0.28	
			<i>For Up To 100, Add</i>	0.95	
			<i>For &gt;100 To 500, Add</i>	0.47	
			<i>For &gt;5,000, Deduct</i>	-0.19	
09 22 36 23-0027	SF		4.0 LB/SY, Installed On Ceiling, 3/8" High Rib Metal Lath .....	3.67	0.84
			<i>For Ceilings &gt;10' High, Add</i>	0.28	
			<i>For Up To 100, Add</i>	0.95	
			<i>For &gt;100 To 500, Add</i>	0.47	
			<i>For &gt;5,000, Deduct</i>	-0.19	



<b>Finishes</b>	<b>09</b>	<b>9</b>
Plaster and Gypsum Board	09 20	
Supports for Plaster and Gypsum Board	09 22	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**09 22 36 33    Fiberglass Lath** (09 22 36)

**09 22 36 33-0001    Non-Metallic, Fiberglass Lath** (09 22 36 33)

09 22 36 33-0002	SF    1/8" Thick, Installed On Ceiling, Non-Metallic, Fiberglass Lath.....	3.45		0.84
	<i>For Ceilings &gt;10' High, Add</i>	0.28		
	<i>For Up To 100, Add</i>	0.95		
	<i>For &gt;100 To 500, Add</i>	0.47		
	<i>For &gt;5,000, Deduct</i>	-0.19		
09 22 36 33-0003	SF    1/4" Thick, Installed On Ceiling, Non-Metallic, Fiberglass Lath.....	3.70		0.84
	<i>For Ceilings &gt;10' High, Add</i>	0.28		
	<i>For Up To 100, Add</i>	0.95		
	<i>For &gt;100 To 500, Add</i>	0.47		
	<i>For &gt;5,000, Deduct</i>	-0.19		
09 22 36 33-0004	SF    1/8" Thick, Installed On Solid Wall Surface, Non-Metallic, Fiberglass Lath .....	3.33		0.79
	<i>For Walls &gt;10' High, Add</i>	0.22		
	<i>For Up To 100, Add</i>	0.89		
	<i>For &gt;100 To 500, Add</i>	0.44		
	<i>For &gt;5,000, Deduct</i>	-0.18		
09 22 36 33-0005	SF    1/4" Thick, Installed On Solid Wall Surface, Non-Metallic, Fiberglass Lath .....	3.58		0.79
	<i>For Walls &gt;10' High, Add</i>	0.22		
	<i>For Up To 100, Add</i>	0.89		
	<i>For &gt;100 To 500, Add</i>	0.44		
	<i>For &gt;5,000, Deduct</i>	-0.18		

**09 23    Gypsum Plastering** (09 20)

**09 23 13    Acoustical Gypsum Plastering** (09 23)

Note: Excludes lath, furring and studs. See CSI section 09 22 00 00-0000 for metal studs and furring, 09 22 36 00-0000 for lath.

**09 23 13 00-0001    Casing And Corner Beads** (09 23 13)

09 23 13 00-0002	LF    Galvanized Expanded Flange Casing Bead For Plaster Applications.....	4.93		1.20
09 23 13 00-0003	LF    Zinc Expanded Flange Casing Bead For Plaster Applications.....	4.94		1.20
09 23 13 00-0004	LF    Vinyl Expanded Flange Casing Bead For Plaster Applications.....	5.22		1.20
09 23 13 00-0005	LF    Galvanized Corner Bead For Plaster Applications.....	4.73		1.20
09 23 13 00-0006	LF    Vinyl Corner Bead For Plaster Applications.....	4.76		1.20

**09 23 13 00-0007    Trim** (09 23 13)

09 23 13 00-0008	LF    Galvanized "J" Trim For Plaster Applications.....	4.96		1.20
	<i>For Vinyl Instead Of Galvanized, Add</i>	0.20		
	<i>For Zinc Instead Of Galvanized, Add</i>	1.32		
09 23 13 00-0009	LF    Galvanized "L" Trim For Plaster Applications .....	4.96		1.20
	<i>For Vinyl Instead Of Galvanized, Add</i>	0.20		
	<i>For Zinc Instead Of Galvanized, Add</i>	1.32		
09 23 13 00-0010	LF    Galvanized "U" Trim For Plaster Applications.....	4.96		1.20
	<i>For Vinyl Instead Of Galvanized, Add</i>	0.20		
	<i>For Zinc Instead Of Galvanized, Add</i>	1.32		

**09 23 13 00-0011    Plaster Forms And Expansion Joints** (09 23 13)

09 23 13 00-0012	SF    1" Architectural Foam Forms To Cover With Plaster .....	5.73		
09 23 13 00-0013	LF    3/4" Galvanized Expansion Joint For Plaster Applications.....	5.82		1.20

**09 23 13 00-0014    One Skim Coat Gypsum Plaster On Walls** (09 23 13)

09 23 13 00-0015	SF    Skim Coat One Coat Gypsum Plaster On Walls .....	1.37		
	<i>For Walls &gt;10' High, Add</i>	0.12		
	<i>For Horizontal Installation Up To 10' High, Add</i>	0.18		
	<i>For Horizontal Installation &gt;10' High, Add</i>	0.35		
	<i>For Columns Or Beams Up To 10' High, Add</i>	0.36		
	<i>For Columns Or Beams &gt;10' High, Add</i>	0.54		
	<i>For Up To 100, Add</i>	0.59		
	<i>For &gt;100 To 500, Add</i>	0.29		
	<i>For &gt;5,000, Deduct</i>	-0.23		
09 23 13 00-0016	SF    For Each Additional Coat Over One, Skim Coat Gypsum Plaster On Walls .....	0.99		
	<i>For Walls &gt;10' High, Add</i>	0.08		
	<i>For Horizontal Installation Up To 10' High, Add</i>	0.13		
	<i>For Horizontal Installation &gt;10' High, Add</i>	0.25		
	<i>For Columns Or Beams Up To 10' High, Add</i>	0.26		
	<i>For Columns Or Beams &gt;10' High, Add</i>	0.39		
	<i>For Up To 100, Add</i>	0.42		
	<i>For &gt;100 To 500, Add</i>	0.21		
	<i>For &gt;5,000, Deduct</i>	-0.17		

**09 23 13 00-0017    Two Coats Gypsum Plaster On Walls** (09 23 13)

**09 Finishes**

**09 20 Plaster and Gypsum Board**

**09 23 Gypsum Plastering**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 23 13 00-0018	SF		Smooth Finish Two Coats Gypsum Plaster On Walls .....	6.76	3.88
			For Walls >10' High, Add	0.64	
			For Horizontal Installation Up To 10' High, Add	0.96	
			For Horizontal Installation >10' High, Add	1.92	
			For Columns Or Beams Up To 10' High, Add	1.98	
			For Columns Or Beams >10' High, Add	2.94	
			For Up To 100, Add	3.20	
			For >100 To 500, Add	1.60	
			For >5,000, Deduct	-1.28	
09 23 13 00-0019	SF		Sand Aggregate Two Coats Gypsum Plaster On Walls .....	7.08	3.67
			For Walls >10' High, Add	0.60	
			For Horizontal Installation Up To 10' High, Add	0.90	
			For Horizontal Installation >10' High, Add	1.80	
			For Columns Or Beams Up To 10' High, Add	1.86	
			For Columns Or Beams >10' High, Add	2.76	
			For Up To 100, Add	3.00	
			For >100 To 500, Add	1.50	
			For >5,000, Deduct	-1.20	
09 23 13 00-0020	SF		Perlite Or Vermiculite Two Coats Gypsum Plaster On Walls .....	6.98	3.67
			For Walls >10' High, Add	0.60	
			For Horizontal Installation Up To 10' High, Add	0.90	
			For Horizontal Installation >10' High, Add	1.80	
			For Columns Or Beams Up To 10' High, Add	1.86	
			For Columns Or Beams >10' High, Add	2.76	
			For Up To 100, Add	3.00	
			For >100 To 500, Add	1.50	
			For >5,000, Deduct	-1.20	
<b>09 23 13 00-0021</b>			<b>Three Coats Gypsum Plaster On Walls</b> <small>(09 23 13)</small>		
09 23 13 00-0022	SF		Smooth Finish Three Coats Gypsum Plaster On Walls .....	8.18	4.72
			For Walls >10' High, Add	0.76	
			For Horizontal Installation Up To 10' High, Add	1.15	
			For Horizontal Installation >10' High, Add	2.29	
			For Columns Or Beams Up To 10' High, Add	2.37	
			For Columns Or Beams >10' High, Add	3.51	
			For Up To 100, Add	3.82	
			For >100 To 500, Add	1.91	
			For >5,000, Deduct	-1.53	
09 23 13 00-0023	SF		Sand Aggregate Three Coats Gypsum Plaster On Walls .....	8.33	4.30
			For Walls >10' High, Add	0.71	
			For Horizontal Installation Up To 10' High, Add	1.06	
			For Horizontal Installation >10' High, Add	2.13	
			For Columns Or Beams Up To 10' High, Add	2.20	
			For Columns Or Beams >10' High, Add	3.26	
			For Up To 100, Add	3.55	
			For >100 To 500, Add	1.77	
			For >5,000, Deduct	-1.42	
09 23 13 00-0024	SF		Perlite Or Vermiculite Three Coats Gypsum Plaster On Walls .....	7.70	4.30
			For Walls >10' High, Add	0.71	
			For Horizontal Installation Up To 10' High, Add	1.06	
			For Horizontal Installation >10' High, Add	2.12	
			For Columns Or Beams Up To 10' High, Add	2.19	
			For Columns Or Beams >10' High, Add	3.24	
			For Up To 100, Add	3.53	
			For >100 To 500, Add	1.76	
			For >5,000, Deduct	-1.41	
<b>09 23 13 00-0025</b>			<b>Plaster Bonding Agent</b> <small>(09 23 13)</small>		
09 23 13 00-0026	SF		1 Coat, Brush/Roller Applied Plaster Bonding Agent .....	0.76	
			For Walls >10' High, Add	0.06	
			For Columns Or Beams Up To 10' High, Add	0.19	
			For Columns Or Beams >10' High, Add	0.28	
			For Ceiling Application Up To 10' High, Add	0.08	
			For Ceiling Application >10' High, Add	0.14	
<b>09 24 Cement Plastering</b>					
<b>09 24 13 Acoustical Cement Plastering</b>					
<b>09 24 13 00-0001</b>			<b>Keene's Cement Plaster, Quick Setting, White Hard Plaster</b> <small>(09 24 13)</small>		
			Note: Used for areas with higher than normal moisture.		
09 24 13 00-0002	SF		1 Coat Keene's Cement Plaster On Walls .....	5.64	2.62
			For Walls >10' High, Add	0.42	
			For Horizontal Installation Up To 10' High, Add	0.63	
			For Horizontal Installation >10' High, Add	1.26	
			For Columns Or Beams Up To 10' High, Add	1.30	
			For Columns Or Beams >10' High, Add	1.93	
			For Up To 100, Add	2.10	
			For >100 To 500, Add	1.05	
			For >5,000, Deduct	-0.84	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 24 13 00-0003	SF			2 Coat Keene's Cement Plaster On Walls .....	8.48	4.09
				<i>For Walls &gt;10' High, Add</i>	0.67	
				<i>For Horizontal Installation Up To 10' High, Add</i>	1.00	
				<i>For Horizontal Installation &gt;10' High, Add</i>	2.00	
				<i>For Columns Or Beams Up To 10' High, Add</i>	2.06	
				<i>For Columns Or Beams &gt;10' High, Add</i>	3.06	
				<i>For Up To 100, Add</i>	3.33	
				<i>For &gt;100 To 500, Add</i>	1.66	
				<i>For &gt;5,000, Deduct</i>	-1.33	
09 24 13 00-0004	SF			3 Coat Keene's Cement Plaster On Walls .....	9.59	4.62
				<i>For Walls &gt;10' High, Add</i>	0.75	
				<i>For Horizontal Installation Up To 10' High, Add</i>	1.13	
				<i>For Horizontal Installation &gt;10' High, Add</i>	2.26	
				<i>For Columns Or Beams Up To 10' High, Add</i>	2.33	
				<i>For Columns Or Beams &gt;10' High, Add</i>	3.46	
				<i>For Up To 100, Add</i>	3.76	
				<i>For &gt;100 To 500, Add</i>	1.88	
				<i>For &gt;5,000, Deduct</i>	-1.50	

**09 24 23 Cement Stucco** (09 24)

Note: Packaged product reinforced with fibers. All plastering excludes lath, furring or studs except as noted. See CSI section 09 22 00 00-0000 for metal studs and furring.

**09 24 23 00-0001 Stucco** (09 24 23)

Note: Excludes wall scaffolding or lifting equipment. See CSI section 09 22 36 00-0000 for lath.

09 24 23 00-0002	SF			Scratch/Brown/Finish, Three Coat Troweled Stucco .....	10.44	3.25
				Note: Excludes lath and felt. Interior or exterior, one side.		
				<i>For Walls &gt;10' High, Add</i>	0.89	
				<i>For Horizontal Installation Up To 10' High, Add</i>	1.33	
				<i>For Horizontal Installation &gt;10' High, Add</i>	2.66	
				<i>For Columns Or Beams Up To 10' High, Add</i>	2.75	
				<i>For Columns Or Beams &gt;10' High, Add</i>	4.08	
				<i>For Color Added To Finish Coat, Add</i>	0.15	
				<i>For Smooth Float Finish, Add</i>	1.86	
				<i>For Up To 100, Add</i>	4.44	
				<i>For &gt;100 To 500, Add</i>	2.22	
				<i>For &gt;5,000, Deduct</i>	-1.78	
09 24 23 00-0003	SF			Scratch/Brown, Two Coat Troweled Stucco .....	4.62	1.57
				Note: Excludes lath and felt. Interior or exterior, one side.		
				<i>For Walls &gt;10' High, Add</i>	0.33	
				<i>For Horizontal Installation Up To 10' High, Add</i>	0.49	
				<i>For Horizontal Installation &gt;10' High, Add</i>	0.98	
				<i>For Columns Or Beams Up To 10' High, Add</i>	1.01	
				<i>For Columns Or Beams &gt;10' High, Add</i>	1.50	
				<i>For Up To 100, Add</i>	1.63	
				<i>For &gt;100 To 500, Add</i>	0.81	
				<i>For &gt;5,000, Deduct</i>	-0.65	
09 24 23 00-0004	SF			Scratch/Finish, Two Coat Troweled Stucco .....	6.90	1.57
				Note: Excludes lath and felt. Interior or exterior, one side.		
				<i>For Walls &gt;10' High, Add</i>	0.58	
				<i>For Horizontal Installation Up To 10' High, Add</i>	0.86	
				<i>For Horizontal Installation &gt;10' High, Add</i>	1.73	
				<i>For Columns Or Beams Up To 10' High, Add</i>	1.79	
				<i>For Columns Or Beams &gt;10' High, Add</i>	2.65	
				<i>For Color Added To Finish Coat, Add</i>	0.15	
				<i>For Smooth Float Finish, Add</i>	1.58	
				<i>For Up To 100, Add</i>	2.88	
				<i>For &gt;100 To 500, Add</i>	1.44	
				<i>For &gt;5,000, Deduct</i>	-1.15	
09 24 23 00-0005	SF			Finish Coat Troweled Stucco .....	4.38	1.05
				Note: Excludes lath and felt. Interior or exterior, one side.		
				<i>For Walls &gt;10' High, Add</i>	0.42	
				<i>For Horizontal Installation Up To 10' High, Add</i>	0.63	
				<i>For Horizontal Installation &gt;10' High, Add</i>	1.26	
				<i>For Columns Or Beams Up To 10' High, Add</i>	1.30	
				<i>For Columns Or Beams &gt;10' High, Add</i>	1.93	
				<i>For Color Added To Finish Coat, Add</i>	0.15	
				<i>For Smooth Float Finish, Add</i>	1.58	
				<i>For Up To 100, Add</i>	2.10	
				<i>For &gt;100 To 500, Add</i>	1.05	
				<i>For &gt;5,000, Deduct</i>	-0.84	

**09 24 33 Cement Parging** (09 24)

**09 24 33 00-0001 Cement Parging** (09 24 33)

09 24 33 00-0002	SF			1/8" Thick Sand And Cement Parging .....	3.83	
09 24 33 00-0003	SF			1/4" Thick Sand And Cement Parging .....	4.94	
09 24 33 00-0004	SF			1/2" Thick Sand And Cement Parging .....	6.24	

**09 28 Backing Boards and Underlayments** (09 20)

**09 28 13 Cementitious Backing Boards** (09 28)

**09 Finishes****09 20 Plaster and Gypsum Board****09 28 Backing Boards and Underlayments**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 28 13 00-0001			<b>Cementitious Backer Units</b> <small>(09 28 13)</small> Note: Installed with mechanical fasteners to floor, wall and ceiling surfaces. Use thin-set from setting methods section for floor installations as applicable.		
09 28 13 00-0002	SF		1/4" Cementitious Backer Units For Installation On Floors .....	4.21	0.80
			For Up To 50, Add	3.44	
			For >50 To 250, Add	0.64	
			For >1,000, Deduct	-0.32	
			For Installation On Wall, Add	0.64	
			For Installation On Ceiling, Add	1.59	
09 28 13 00-0003	SF		1/2" Cementitious Backer Units For Installation On Floors .....	4.86	0.96
			For Up To 50, Add	4.07	
			For >50 To 250, Add	0.76	
			For >1,000, Deduct	-0.38	
			For Installation On Wall, Add	0.76	
			For Installation On Ceiling, Add	1.91	
09 28 13 00-0004	SF		5/8" Cementitious Backer Units For Installation On Floors .....	5.92	1.11
			For Up To 50, Add	4.82	
			For >50 To 250, Add	0.89	
			For >1,000, Deduct	-0.45	
			For Installation On Wall, Add	0.89	
			For Installation On Ceiling, Add	2.23	
<b>09 28 16</b>			<b>Glass-Mat Faced Gypsum Backing Boards</b> <small>(09 28)</small>		
09 28 16 00-0001			<b>Glass Mat Faced Backer Units, DensShield</b> <small>(09 28 16)</small> Note: Installed with mechanical fasteners to floor, wall and ceiling surfaces. Use thin-set from setting methods section for floor installations as applicable.		
09 28 16 00-0002	SF		1/2" DensShield Tile Backer For Installation On Floors .....	3.70	0.89
			For Up To 50, Add	2.64	
			For >50 To 250, Add	0.46	
			For >1,000, Deduct	-0.23	
			For Installation On Wall, Add	0.46	
			For Installation On Ceiling, Add	1.14	
09 28 16 00-0003	SF		5/8" DensShield Tile Backer For Installation On Floors .....	4.39	1.02
			For Up To 50, Add	3.01	
			For >50 To 250, Add	0.51	
			For >1,000, Deduct	-0.26	
			For Installation On Wall, Add	0.51	
			For Installation On Ceiling, Add	1.28	
<b>09 29</b>			<b>Gypsum Board</b> <small>(09 29)</small>		
			Note: Do not deduct for opens of less than 25 SF when calculating total wall square footage.		
<b>09 29 10</b>			<b>Gypsum Board</b> <small>(09 29)</small>		
09 29 10 00-0001			<b>Standard Gypsum Board Application</b> <small>(09 29 10)</small> Note: Includes gypsum board screwed in place on walls, ceilings, beams, columns, soffits, etc.. Excludes finishing. See CSI section 09 01 20 91-0001 for small repairs, 09 29 10 00-0036 for finishing gypsum board, 09 29 10 00-0049 for casing and corner bead.		
09 29 10 00-0002			<b>Standard Gypsum Board Application</b> <small>(09 29 10 00-0001)</small>		
09 29 10 00-0003	SF		1/4" Gypsum Board.....	1.48	0.51
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.24	
			For Adhesive Applied Sheets, Add	0.11	
			Note: Includes bracing until adhesive is bonded		
			For Horizontal Installation Up To 10' High, Add	0.35	
			For Horizontal Installation >10' High, Add	0.51	
			For Walls >10' High, Add	0.08	
			For Up To 128, Add	0.50	
			For >128 To 320, Add	0.30	
			For >1,536, Deduct	-0.12	
09 29 10 00-0004	SF		3/8" Gypsum Board.....	1.61	0.57
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.27	
			For Adhesive Applied Sheets, Add	0.12	
			Note: Includes bracing until adhesive is bonded		
			For Foil Back Board, Add	0.10	
			For Horizontal Installation Up To 10' High, Add	0.39	
			For Horizontal Installation >10' High, Add	0.58	
			For Walls >10' High, Add	0.09	
			For Up To 128, Add	0.55	
			For >128 To 320, Add	0.33	
			For >1,536, Deduct	-0.13	
09 29 10 00-0005	SF		1/2" Gypsum Board.....	1.78	0.65
			For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.31	
			For Adhesive Applied Sheets, Add	0.13	
			Note: Includes bracing until adhesive is bonded		
			For Foil Back Board, Add	0.10	
			For Horizontal Installation Up To 10' High, Add	0.45	
			For Horizontal Installation >10' High, Add	0.66	
			For Walls >10' High, Add	0.11	
			For Up To 128, Add	0.62	
			For >128 To 320, Add	0.38	
			For >1,536, Deduct	-0.14	



<b>Finishes</b>	<b>09</b>	<b>9</b>
Plaster and Gypsum Board	09 20	
Gypsum Board	09 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0006 SF 5/8" Gypsum Board.....	2.08	0.75
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.35	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Foil Back Board, Add	0.10	
For Horizontal Installation Up To 10' High, Add	0.51	
For Horizontal Installation >10' High, Add	0.76	
For Walls >10' High, Add	0.12	
For Up To 128, Add	0.72	
For >128 To 320, Add	0.43	
For >1,536, Deduct	-0.16	
<b>09 29 10 00-0007 Fire Rated Gypsum Board Application (09 29 10 00-0001)</b>		
<b>09 29 10 00-0008 Type X, Fire Rated Gypsum Board (09 29 10 00-0007)</b>		
09 29 10 00-0009 SF 5/8" Type X Fire Rated Gypsum Board.....	2.22	0.75
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.39	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Foil Back Board, Add	0.10	
For Horizontal Installation Up To 10' High, Add	0.56	
For Horizontal Installation >10' High, Add	0.83	
For Walls >10' High, Add	0.13	
For Up To 128, Add	0.78	
For >128 To 320, Add	0.47	
For >1,536, Deduct	-0.17	
<b>09 29 10 00-0010 Type C, Fire Rated Gypsum Board (09 29 10 00-0007)</b>		
09 29 10 00-0011 SF 1/2" Type C Fire Rated Gypsum Board.....	2.04	0.65
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.34	
For Adhesive Applied Sheets, Add	0.13	
Note: Includes bracing until adhesive is bonded		
For Foil Back Board, Add	0.10	
For Horizontal Installation Up To 10' High, Add	0.49	
For Horizontal Installation >10' High, Add	0.73	
For Walls >10' High, Add	0.12	
For Up To 128, Add	0.70	
For >128 To 320, Add	0.42	
For >1,536, Deduct	-0.16	
09 29 10 00-0012 SF 5/8" Type C Fire Rated Gypsum Board.....	2.28	0.75
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.39	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Foil Back Board, Add	0.10	
For Horizontal Installation Up To 10' High, Add	0.56	
For Horizontal Installation >10' High, Add	0.83	
For Walls >10' High, Add	0.13	
For Up To 128, Add	0.79	
For >128 To 320, Add	0.48	
For >1,536, Deduct	-0.18	
<b>09 29 10 00-0013 Fire Rated Gypsum Board (Sheetrock® Ultracode®) (09 29 10 00-0007)</b>		
09 29 10 00-0014 SF 3/4" Fire Rated Gypsum Board (Sheetrock® Ultracode®).....	3.07	0.75
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.40	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.56	
For Horizontal Installation >10' High, Add	0.83	
For Walls >10' High, Add	0.13	
For Up To 128, Add	0.95	
For >128 To 320, Add	0.56	
For >1,536, Deduct	-0.29	
<b>09 29 10 00-0015 Moisture Resistant Gypsum Board Application (09 29 10 00-0001)</b>		
09 29 10 00-0016 SF 1/2" Moisture Resistant Gypsum Board.....	1.93	0.65
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.31	
For Adhesive Applied Sheets, Add	0.13	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.45	
For Horizontal Installation >10' High, Add	0.66	
For Walls >10' High, Add	0.11	
For Up To 128, Add	0.65	
For >128 To 320, Add	0.39	
For >1,536, Deduct	-0.16	

**09 Finishes****09 20 Plaster and Gypsum Board****09 29 Gypsum Board**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0017	SF		5/8" Moisture Resistant Gypsum Board .....	2.47	0.65
			<i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i>	0.36	
			<i>For Adhesive Applied Sheets, Add</i>	0.14	
			<i>Note: Includes bracing until adhesive is bonded</i>		
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.51	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.76	
			<i>For Walls &gt;10' High, Add</i>	0.12	
			<i>For Up To 128, Add</i>	0.80	
			<i>For &gt;128 To 320, Add</i>	0.47	
			<i>For &gt;1,536, Deduct</i>	-0.22	
<b>09 29 10 00-0018</b>			<b>Vinyl Faced Gypsum Board Application (09 29 10 00-0001)</b>		
			<i>Note: Includes clips and adhesive.</i>		
09 29 10 00-0019	SF		3/8" Prefinished, Vinyl Faced Gypsum Board .....	3.45	0.51
			<i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i>	0.29	
			<i>For Adhesive Applied Sheets, Add</i>	0.12	
			<i>Note: Includes bracing until adhesive is bonded</i>		
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.39	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.58	
			<i>For Walls &gt;10' High, Add</i>	0.09	
			<i>For Up To 128, Add</i>	0.92	
			<i>For &gt;128 To 320, Add</i>	0.52	
			<i>For &gt;1,536, Deduct</i>	-0.40	
09 29 10 00-0020	SF		1/2" Prefinished, Vinyl Faced Gypsum Board .....	3.62	0.65
			<i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i>	0.33	
			<i>For Adhesive Applied Sheets, Add</i>	0.13	
			<i>Note: Includes bracing until adhesive is bonded</i>		
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.45	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.66	
			<i>For Walls &gt;10' High, Add</i>	0.11	
			<i>For Up To 128, Add</i>	0.99	
			<i>For &gt;128 To 320, Add</i>	0.56	
			<i>For &gt;1,536, Deduct</i>	-0.41	
09 29 10 00-0021	SF		5/8" Prefinished, Vinyl Faced Gypsum Board .....	3.81	0.75
			<i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i>	0.37	
			<i>For Adhesive Applied Sheets, Add</i>	0.14	
			<i>Note: Includes bracing until adhesive is bonded</i>		
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.51	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.76	
			<i>For Walls &gt;10' High, Add</i>	0.12	
			<i>For Up To 128, Add</i>	1.06	
			<i>For &gt;128 To 320, Add</i>	0.61	
			<i>For &gt;1,536, Deduct</i>	-0.42	
09 29 10 00-0022	SF		1/2" Fire Rated, Prefinished Vinyl Faced Gypsum Board .....	4.19	0.65
			<i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i>	0.36	
			<i>For Adhesive Applied Sheets, Add</i>	0.13	
			<i>Note: Includes bracing until adhesive is bonded</i>		
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.49	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.73	
			<i>For Walls &gt;10' High, Add</i>	0.12	
			<i>For Up To 128, Add</i>	1.13	
			<i>For &gt;128 To 320, Add</i>	0.64	
			<i>For &gt;1,536, Deduct</i>	-0.48	
09 29 10 00-0023	SF		5/8" Fire Rated, Prefinished Vinyl Faced Gypsum Board .....	6.36	0.75
			<i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i>	0.43	
			<i>For Adhesive Applied Sheets, Add</i>	0.14	
			<i>Note: Includes bracing until adhesive is bonded</i>		
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.56	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.83	
			<i>For Walls &gt;10' High, Add</i>	0.13	
			<i>For Up To 128, Add</i>	1.60	
			<i>For &gt;128 To 320, Add</i>	0.89	
			<i>For &gt;1,536, Deduct</i>	-0.79	
<b>09 29 10 00-0024</b>			<b>Moisture And Mold Resistant Gypsum Board Application (09 29 10 00-0001)</b>		
09 29 10 00-0025	SF		1/2", Mesh Reinforced, Moisture And Mold Resistant Gypsum Board (Georgia-Pacific ToughRock® Mold-Guard™) .....	2.23	0.63
			<i>For Curved Surfaces With A 2'-0" Maximum Radius, Add</i>	0.31	
			<i>For Adhesive Applied Sheets, Add</i>	0.13	
			<i>Note: Includes bracing until adhesive is bonded</i>		
			<i>For Non-reinforced Board, Deduct</i>	-0.08	
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.45	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.66	
			<i>For Walls &gt;10' High, Add</i>	0.11	
			<i>For Up To 128, Add</i>	0.71	
			<i>For &gt;128 To 320, Add</i>	0.42	
			<i>For &gt;1,536, Deduct</i>	-0.20	



<b>Finishes</b>	<b>09</b>	<b>9</b>
Plaster and Gypsum Board	09 20	
Gypsum Board	09 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0026 SF 5/8", Mesh Reinforced, Moisture And Mold Resistant Gypsum Board (Georgia-Pacific ToughRock® Mold-Guard™).....	2.62	0.72
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.36	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Non-reinforced Board, Deduct	-0.08	
For Horizontal Installation Up To 10' High, Add	0.51	
For Horizontal Installation >10' High, Add	0.76	
For Walls >10' High, Add	0.12	
For Up To 128, Add	0.83	
For >128 To 320, Add	0.49	
For >1,536, Deduct	-0.24	
09 29 10 00-0027 SF 1/2" Fire Rated, Mesh Reinforced, Moisture And Mold Resistant Gypsum Board (Georgia-Pacific ToughRock® Fireguard X® Mold-Guard™).....	2.63	0.63
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.35	
For Adhesive Applied Sheets, Add	0.13	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.49	
For Horizontal Installation >10' High, Add	0.73	
For Walls >10' High, Add	0.12	
For Up To 128, Add	0.82	
For >128 To 320, Add	0.48	
For >1,536, Deduct	-0.25	
09 29 10 00-0028 SF 5/8" Fire Rated, Mesh Reinforced, Moisture And Mold Resistant Gypsum Board (Georgia-Pacific ToughRock® Fireguard X® Mold-Guard™).....	2.94	0.72
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.39	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.56	
For Horizontal Installation >10' High, Add	0.83	
For Walls >10' High, Add	0.13	
For Up To 128, Add	0.92	
For >128 To 320, Add	0.54	
For >1,536, Deduct	-0.28	
<b>09 29 10 00-0029 Impact Resistant Gypsum Board (09 29 10 00-0001)</b>		
Note: Includes tapered edge, mold and moisture resistant, fire-resistant, Type X gypsum core encased in a heavy, abrasion and mold/mildew/moisture resistant		
09 29 10 00-0030 SF 5/8" Fire Rated, Impact Resistant Gypsum Board (National Gypsum Hi-Impact®).....	4.16	0.72
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.37	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.51	
For Horizontal Installation >10' High, Add	0.75	
For Walls >10' High, Add	0.12	
For Up To 128, Add	1.13	
For >128 To 320, Add	0.64	
For >1,536, Deduct	-0.47	
<b>09 29 10 00-0031 Abuse Resistant Gypsum Board (09 29 10 00-0001)</b>		
Note: Includes tapered edge, mold and moisture resistant, fire-resistant Type X gypsum core encased in a heavy, abrasion and mold/mildew/moisture resistant		
09 29 10 00-0032 SF 5/8" Fire Rated, Abuse Resistant Gypsum Board (National Gypsum Hi-Abuse®).....	2.69	0.72
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.36	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.51	
For Horizontal Installation >10' High, Add	0.75	
For Walls >10' High, Add	0.12	
For Up To 128, Add	0.84	
For >128 To 320, Add	0.49	
For >1,536, Deduct	-0.25	
<b>09 29 10 00-0033 Noise Reducing Gypsum Board (09 29 10 00-0001)</b>		
09 29 10 00-0034 SF 1/2" Noise Reducing Gypsum Board (National Gypsum SoundBreak).....	4.88	0.76
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.39	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.52	
For Horizontal Installation >10' High, Add	0.77	
For Walls >10' High, Add	0.12	
For Up To 128, Add	1.28	
For >128 To 320, Add	0.72	
For >1,536, Deduct	-0.58	

**09 Finishes****09 20 Plaster and Gypsum Board****09 29 Gypsum Board**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0035 SF 5/8" Noise Reducing Gypsum Board (National Gypsum SoundBreak).....	5.84	0.76
For Curved Surfaces With A 2'-0" Maximum Radius, Add	0.40	
For Adhesive Applied Sheets, Add	0.14	
Note: Includes bracing until adhesive is bonded		
For Horizontal Installation Up To 10' High, Add	0.52	
For Horizontal Installation >10' High, Add	0.77	
For Walls >10' High, Add	0.12	
For Up To 128, Add	1.47	
For >128 To 320, Add	0.81	
For >1,536, Deduct	-0.72	
<b>09 29 10 00-0036 Finishing Gypsum Board Applications (09 29 10)</b>		
Note: Includes flat or curved walls, columns, soffits, recesses, and chases. Tape, spackle, sand and finish gypsum board to the appropriate level as defined by ASTM C 840. No taping or finishing is required for Level 0. For Level 1, tape is set in compound at joints and interior angles. Ridges and tool marks are acceptable. For Level 2, tape is set in compound and wiped with a joint knife leaving a thin coating of compound over joints, interior angles, fastener heads, and beads. Ridges and tool marks are acceptable. Compound applied over the body of the tape at the time of the tape is set satisfies the conditions for this level. For Level 3, tape is set in compound and one additional coat of compound is applied over all joints and interior angles. Fastener heads and accessories receive two separate coats of joint compound. Ridges and tool marks are not acceptable. For Level 4, tape is set in compound and two separate coats of compound are applied over all flat joints with one separate coat of compound applied over interior angles. Fastener heads and accessories receive three separate coats of compound. Ridges and tool marks are not acceptable. A Level 5 finish is a Level 4 finish plus a thin skim coat of compound applied to the entire drywall surface. All levels of finish require that the surface be free of excess compound. A single modifier may be used to change the level of finish to the appropriate level.		
<b>09 29 10 00-0037 Finish Gypsum Board Walls, ASTM C840 Level 4 (09 29 10 00-0036)</b>		
09 29 10 00-0038 SF Up To 10' High, Walls, Tape, Spackle And Finish Gypsum Board.....	0.89	
For Up To 128, Add	0.34	
For >128 To 320, Add	0.21	
For >5,400, Deduct	-0.09	
For ASTM C840 Level 1 Finish, Deduct	-0.42	
For ASTM C840 Level 2 Finish, Deduct	-0.21	
For ASTM C840 Level 3 Finish, Deduct	-0.09	
For ASTM C840 Level 5 High Quality Finish, Add	0.66	
For Spray Applied Textured Or Orange Peel Finish, Add	0.66	
09 29 10 00-0039 SF >10' High, Walls, Tape, Spackle And Finish Gypsum Board .....	1.18	
Note: Use this task for the entire wall area when the wall is >10' high.		
For Up To 128, Add	0.46	
For >128 To 320, Add	0.28	
For >5,400, Deduct	-0.12	
For ASTM C840 Level 1 Finish, Deduct	-0.57	
For ASTM C840 Level 2 Finish, Deduct	-0.28	
For ASTM C840 Level 3 Finish, Deduct	-0.11	
For ASTM C840 Level 5 High Quality Finish, Add	0.87	
For Spray Applied Textured Or Orange Peel Finish, Add	0.87	
<b>09 29 10 00-0040 Finish Gypsum Board Ceilings, ASTM C840 Level 4 (09 29 10 00-0036)</b>		
09 29 10 00-0041 SF Up To 10' High, Ceilings, Tape, Spackle And Finish Gypsum Board.....	1.16	
For Up To 128, Add	0.45	
For >128 To 320, Add	0.28	
For >5,400, Deduct	-0.12	
For ASTM C840 Level 1 Finish, Deduct	-0.56	
For ASTM C840 Level 2 Finish, Deduct	-0.28	
For ASTM C840 Level 3 Finish, Deduct	-0.11	
For ASTM C840 Level 5 High Quality Finish, Add	0.86	
For Spray Applied Textured Or Orange Peel Finish, Add	0.86	
09 29 10 00-0042 SF >10' High, Ceilings, Tape, Spackle And Finish Gypsum Board .....	1.55	
Note: Use this task for the entire wall area when the wall is >10' high.		
For Up To 128, Add	0.60	
For >128 To 320, Add	0.38	
For >5,400, Deduct	-0.16	
For ASTM C840 Level 1 Finish, Deduct	-0.75	
For ASTM C840 Level 2 Finish, Deduct	-0.38	
For ASTM C840 Level 3 Finish, Deduct	-0.15	
For ASTM C840 Level 5 High Quality Finish, Add	1.15	
For Spray Applied Textured Or Orange Peel Finish, Add	1.15	
<b>09 29 10 00-0043 Finish Gypsum Board Vertical Corners, ASTM C840 Level 4 (09 29 10 00-0036)</b>		
Note: Inside or outside gypsum board corners.		
09 29 10 00-0044 LF Up To 10' High, Vertical Corners, Tape, Spackle And Finish Gypsum Board.....	1.78	
For ASTM C840 Level 1 Finish, Deduct	-0.83	
For ASTM C840 Level 2 Finish, Deduct	-0.41	
For ASTM C840 Level 3 Finish, Deduct	-0.17	
For ASTM C840 Level 5 High Quality Finish, Add	1.30	
09 29 10 00-0045 LF >10' High, Vertical Corners, Tape, Spackle And Finish Gypsum Board .....	2.12	
Note: Use this task for the entire wall area when the wall is >10' high.		
For ASTM C840 Level 1 Finish, Deduct	-1.00	
For ASTM C840 Level 2 Finish, Deduct	-0.50	
For ASTM C840 Level 3 Finish, Deduct	-0.20	
For ASTM C840 Level 5 High Quality Finish, Add	1.56	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 29 10 00-0046			<b>Finish Gypsum Board Horizontal Corners, ASTM C840 Level 4</b> <small>(09 29 10 00-0036)</small>		
				Note: Inside or outside gypsum board corners.		
	09 29 10 00-0047	LF		Up To 10' High, Horizontal Corners, Tape, Spackle And Finish Gypsum Board.....	2.06	
				<i>For ASTM C840 Level 1 Finish, Deduct</i>	-0.97	
				<i>For ASTM C840 Level 2 Finish, Deduct</i>	-0.48	
				<i>For ASTM C840 Level 3 Finish, Deduct</i>	-0.20	
				<i>For ASTM C840 Level 5 High Quality Finish, Add</i>	1.51	
	09 29 10 00-0048	LF		>10' High, Horizontal Corners, Tape, Spackle And Finish Gypsum Board .....	2.47	
				Note: Use this task for the entire wall area when the wall is >10' high.		
				<i>For ASTM C840 Level 1 Finish, Deduct</i>	-1.17	
				<i>For ASTM C840 Level 2 Finish, Deduct</i>	-0.59	
				<i>For ASTM C840 Level 3 Finish, Deduct</i>	-0.24	
				<i>For ASTM C840 Level 5 High Quality Finish, Add</i>	1.82	
	09 29 10 00-0049			<b>Casing And Corner Beads</b> <small>(09 29 10)</small>		
	09 29 10 00-0050	LF		Casing, Galvanized Steel J-Bead For Gypsum Board .....	4.48	1.27
				<i>For Up To 100, Add</i>	0.31	
				<i>For &gt;500, Deduct</i>	-0.22	
	09 29 10 00-0051	LF		Corner Bead, Galvanized Steel For Gypsum Board .....	4.46	1.27
				<i>For Up To 100, Add</i>	0.30	
				<i>For &gt;500, Deduct</i>	-0.22	
	09 29 10 00-0052			<b>Preformed Architectural Profiles</b> <small>(09 29 10)</small>		
	09 29 10 00-0053			<b>Trim Reveals For Gypsum Board</b> <small>(09 29 10 00-0052)</small>		
	09 29 10 00-0054	LF		1/8" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.22	1.53
	09 29 10 00-0055	LF		1/4" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.26	1.53
	09 29 10 00-0056	LF		3/8" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.46	1.53
	09 29 10 00-0057	LF		1/2" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.56	1.53
	09 29 10 00-0058	LF		5/8" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.80	1.53
	09 29 10 00-0059	LF		3/4" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	7.04	1.53
	09 29 10 00-0060	LF		1" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	7.28	1.53
	09 29 10 00-0061	LF		1-1/2" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	8.06	1.53
	09 29 10 00-0062	LF		2" x 1/2" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	8.84	1.53
	09 29 10 00-0063	LF		1/8" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.37	1.65
	09 29 10 00-0064	LF		1/4" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.37	1.65
	09 29 10 00-0065	LF		3/8" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	6.90	1.65
	09 29 10 00-0066	LF		1/2" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	7.00	1.65
	09 29 10 00-0067	LF		5/8" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	7.34	1.65
	09 29 10 00-0068	LF		3/4" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	7.48	1.65
	09 29 10 00-0069	LF		1" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	7.68	1.65
	09 29 10 00-0070	LF		1 1/2" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	8.55	1.65
	09 29 10 00-0071	LF		2" x 5/8" Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	9.43	1.65
	09 29 10 00-0072	LF		3" x 5/8", Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	12.94	1.90
	09 29 10 00-0073	LF		4" x 5/8", Aluminum Extrusions, Single Fin Trim Reveal For Gypsum Board.....	14.39	1.90
	09 29 10 00-0074			<b>Edge Trim For Gypsum Board</b> <small>(09 29 10 00-0052)</small>		
	09 29 10 00-0075	LF		1/2" Aluminum Extrusions, Edge Trim For Gypsum Board.....	5.70	1.59
	09 29 10 00-0076	LF		5/8" Aluminum Extrusions, Edge Trim For Gypsum Board.....	6.09	1.59
	09 29 10 00-0077	LF		1" Aluminum Extrusions, Edge Trim For Gypsum Board.....	7.12	1.75
	09 29 10 00-0078	LF		1-1/4" Aluminum Extrusions, Edge Trim For Gypsum Board.....	7.47	1.90
	09 29 10 00-0079	LF		1/2" Flexible Aluminum Extrusions, Edge Trim For Gypsum Board.....	10.56	1.59
	09 29 10 00-0080	LF		5/8" Flexible Aluminum Extrusions, Edge Trim For Gypsum Board.....	10.95	1.59
	09 29 10 00-0081	LF		1" Flexible Aluminum Extrusions, Edge Trim For Gypsum Board.....	11.98	1.75
	09 29 10 00-0082	LF		1-1/4" Flexible Aluminum Extrusions, Edge Trim For Gypsum Board.....	12.32	1.90
	09 29 10 00-0083			<b>Bevel Trim For Gypsum Board</b> <small>(09 29 10 00-0052)</small>		
	09 29 10 00-0084	LF		5/16" x 1/4" Aluminum Extrusions, Bevel Trim For Gypsum Board.....	6.09	1.59
	09 29 10 00-0085	LF		5/8" x 5/8" Aluminum Extrusions, Bevel Trim For Gypsum Board.....	6.98	1.75
	09 29 10 00-0086			<b>Trim/Wainscot Caps For Gypsum Board</b> <small>(09 29 10 00-0052)</small>		
	09 29 10 00-0087	LF		1-1/2" Wide Aluminum Extrusions, Trim/Wainscot Cap For Gypsum Board.....	8.29	1.90
	09 29 10 00-0088			<b>Single Fin Wall/Trim Reveals For Gypsum Board</b> <small>(09 29 10 00-0052)</small>		
	09 29 10 00-0089	LF		1/8" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	5.91	1.02
	09 29 10 00-0090	LF		1/4" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	6.00	1.15
	09 29 10 00-0091	LF		3/8" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	6.92	1.27
	09 29 10 00-0092	LF		1/2" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	7.36	1.40
	09 29 10 00-0093	LF		5/8" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	7.77	1.53
	09 29 10 00-0094	LF		3/4" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	7.91	1.53
	09 29 10 00-0095	LF		1" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	8.35	1.53
	09 29 10 00-0096	LF		1-1/2" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	9.18	1.53
	09 29 10 00-0097	LF		2" x 1/2" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	9.47	1.53
	09 29 10 00-0098	LF		1/8" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	7.34	1.65
	09 29 10 00-0099	LF		1/4" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	7.44	1.65

**09 Finishes****09 20 Plaster and Gypsum Board****09 29 Gypsum Board**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0100 LF 3/8" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	7.97	1.65
09 29 10 00-0101 LF 1/2" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	8.21	1.65
09 29 10 00-0102 LF 5/8" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	8.41	1.65
09 29 10 00-0103 LF 3/4" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	8.65	1.65
09 29 10 00-0104 LF 1" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	8.99	1.65
09 29 10 00-0105 LF 1-1/2" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	9.86	1.65
09 29 10 00-0106 LF 2" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	10.59	1.65
09 29 10 00-0107 LF 3" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	12.92	1.65
09 29 10 00-0108 LF 4" x 5/8" Aluminum Extrusions, Single Fin Wall Reveal For Gypsum Board.....	17.39	1.65
09 29 10 00-0109 LF 3-1/16" x 7/16", Aluminum Extrusions, Single Fin Wall Base For Gypsum Board.....	12.05	1.65
09 29 10 00-0110 LF 3-1/16" x 9/16", Aluminum Extrusions, Single Fin Wall Base For Gypsum Board.....	12.44	1.65
09 29 10 00-0111 LF 4-1/16" x 7/16", Aluminum Extrusions, Single Fin Wall Base For Gypsum Board.....	13.75	1.65
09 29 10 00-0112 LF 4-1/16" x 9/16", Aluminum Extrusions, Single Fin Wall Base For Gypsum Board.....	13.89	1.65
09 29 10 00-0113 LF 9/16" Tall with 1/2" Reveal, Aluminum Extrusions, Single Fin Wall Base With Reveal For Gypsum Board.....	15.79	1.65
09 29 10 00-0114 LF 5/8" Aluminum Extrusions, Single Fin Wall/Trim Reveal Hanging Track For Gypsum Board.....	12.97	1.65
<b>09 29 10 00-0115 'V' Groove Wall Reveals For Gypsum Board (09 29 10 00-0052)</b>		
09 29 10 00-0116 LF 1/4" x 5/8" Aluminum Extrusions, 'V' Groove Wall Reveal For Gypsum Board.....	9.15	2.28
09 29 10 00-0117 LF 3/4" x 1/2" Aluminum Extrusions, 'V' Groove Wall Reveal For Gypsum Board.....	10.48	2.55
09 29 10 00-0118 LF 1" x 1/2" Aluminum Extrusions, 'V' Groove Wall Reveal For Gypsum Board.....	11.94	3.05
09 29 10 00-0119 LF 9/32" x 5/8" Aluminum Extrusions, 'V' Groove Wall Reveal For Gypsum Board.....	12.15	3.30
<b>09 29 10 00-0120 Double Fin Wall Reveals For Gypsum Board (09 29 10 00-0052)</b>		
09 29 10 00-0121 LF 3/8" x 3/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	8.55	1.53
09 29 10 00-0122 LF 1/8" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	8.64	1.53
09 29 10 00-0123 LF 1/4" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	8.74	1.53
09 29 10 00-0124 LF 3/8" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	8.74	1.53
09 29 10 00-0125 LF 1/2" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	9.18	1.53
09 29 10 00-0126 LF 5/8" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	9.37	1.51
09 29 10 00-0127 LF 3/4" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	9.56	1.53
09 29 10 00-0128 LF 1" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	10.00	1.53
09 29 10 00-0129 LF 1-1/2" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	10.73	1.53
09 29 10 00-0130 LF 2" x 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	11.51	1.53
09 29 10 00-0131 LF 3/8" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	9.04	1.65
09 29 10 00-0132 LF 1/4" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	9.14	1.65
09 29 10 00-0133 LF 3/8" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	9.33	1.65
09 29 10 00-0134 LF 1/2" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	9.77	1.65
09 29 10 00-0135 LF 5/8" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	9.96	1.65
09 29 10 00-0136 LF 3/4" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	10.11	1.65
09 29 10 00-0137 LF 1" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	10.59	1.65
09 29 10 00-0138 LF 1-1/2" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	11.37	1.65
09 29 10 00-0139 LF 2" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	12.15	1.65
09 29 10 00-0140 LF 3" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	14.23	1.65
09 29 10 00-0141 LF 4" x 5/8" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	18.60	1.65
09 29 10 00-0142 LF 1-1/2" x 1" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	16.72	1.80
09 29 10 00-0143 LF 3/4" x 1 1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	19.02	2.20
09 29 10 00-0144 LF 1-1/2" x 1-1/2" Aluminum Extrusions, Double Fin Wall Reveal For Gypsum Board.....	19.65	2.20
09 29 10 00-0145 LF 1/2", Aluminum Extrusions, Double Fin Hanging Track Wall Reveal For Gypsum Board.....	15.20	1.51
09 29 10 00-0146 LF 1 3/16", Aluminum Extrusions, Double Fin Hanging Track Wall Reveal For Gypsum Board.....	14.12	2.20
09 29 10 00-0147 LF 1/4" Aluminum Extrusions, Double Fin Wall Covering Joiner For Gypsum Board.....	10.15	1.51
<b>09 29 10 00-0148 Special Conditions Reveals For Gypsum Board (09 29 10 00-0052)</b>		
<b>09 29 10 00-0149 Radius Conditions (09 29 10 00-0148)</b>		
09 29 10 00-0150 EA 8' Long Inside Radius For Gypsum Board.....	121.36	
Note: Task used in conjunction with "Preformed Architectural Profiles" tasks.		
09 29 10 00-0151 EA 8' Long Outside Radius For Gypsum Board.....	121.36	
Note: Task used in conjunction with "Preformed Architectural Profiles" tasks.		
09 29 10 00-0152 EA 8' Long Circular / Arched Radius For Gypsum Board.....	121.36	
Note: Task used in conjunction with "Preformed Architectural Profiles" tasks.		
<b>09 29 10 00-0153 Knee Brace Kit (09 29 10 00-0148)</b>		
09 29 10 00-0154 EA 46" H, Aluminum Extrusions, Knee Brace Kit For Gypsum Board.....	264.76	15.87
<b>09 29 10 00-0155 Wall Bumper Rail (09 29 10 00-0148)</b>		
09 29 10 00-0156 LF 2-1/2" x 5/8", Aluminum Extrusions, Wall Bumper Rail For Gypsum Board.....	36.97	6.35
<b>09 29 10 00-0157 Corners For Gypsum Board (09 29 10 00-0052)</b>		
09 29 10 00-0158 LF 1/2"R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	7.91	1.53
09 29 10 00-0159 LF 5/8"R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	8.46	1.65
09 29 10 00-0160 LF 3/4"R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	9.37	1.73
09 29 10 00-0161 LF 1"R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	10.45	1.80
09 29 10 00-0162 LF 1-1/2" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	12.66	2.20
09 29 10 00-0163 LF 2" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	14.67	2.48





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 10 00-0164	LF			2-1/2" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	17.81	2.84
09 29 10 00-0165	LF			3" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	21.62	3.31
09 29 10 00-0166	LF			4" R, Aluminum Extrusions, Outside Corner For Gypsum Board.....	29.69	4.41
09 29 10 00-0167	LF			90 Degree 3/8" Aluminum Extrusions, Hi-Strength Corner For Gypsum Board.....	7.89	1.47
09 29 10 00-0168	LF			90 Degree 1-1/4" Aluminum Extrusions, Hi-Strength Corner For Gypsum Board.....	14.46	1.98
09 29 10 00-0169	LF			90 Degree 1-1/4" Aluminum Extrusions, Fabric Tuck Corner For Gypsum Board.....	10.43	1.98
09 29 10 00-0170	LF			90 Degree 1-1/4" Aluminum Extrusions, Corner With Vertical Reveal For Gypsum Board.....	18.73	1.98
09 29 10 00-0171	LF			45 Degree 2" Aluminum Extrusions, Corner For Gypsum Board.....	26.61	2.48
09 29 10 00-0172	LF			60 Degree 2" Aluminum Extrusions, Corner For Gypsum Board.....	25.54	2.48
09 29 10 00-0173	LF			3/4" Aluminum Extrusions, Chamfered Corner For Gypsum Board.....	7.77	1.73
09 29 10 00-0174	LF			5/8" R, Aluminum Extrusions, Corners Return For Gypsum Board.....	7.82	1.65
09 29 10 00-0175	LF			1/2" x 1/2" Aluminum Extrusions, Double Corner Step For Gypsum Board.....	7.87	1.53
09 29 10 00-0176	LF			5/8" x 5/8" Aluminum Extrusions, Double Corner Step For Gypsum Board.....	8.26	1.65
09 29 10 00-0177	LF			1" x 1" Aluminum Extrusions, Double Corner Step For Gypsum Board.....	11.09	1.80
09 29 10 00-0178	LF			1/2" x 1/2" Aluminum Extrusions, Triple Corner Step For Gypsum Board.....	9.76	1.53
09 29 10 00-0179	LF			5/8" x 5/8" Aluminum Extrusions, Triple Corner Step For Gypsum Board.....	10.30	1.65
09 29 10 00-0180	LF			1" x 1" Aluminum Extrusions, Triple Corner Step For Gypsum Board.....	15.07	1.80
09 29 10 00-0181	LF			1/3" x 1/2" Aluminum Extrusions, Quad Corner Step For Gypsum Board.....	16.56	1.53
09 29 10 00-0182	LF			3" Aluminum Extrusions, Bullnose For Gypsum Board.....	28.46	3.31
09 29 10 00-0183	LF			3-7/8" Aluminum Extrusions, Bullnose For Gypsum Board.....	30.41	3.31
09 29 10 00-0184	LF			5-3/8", Aluminum Extrusions, Bullnose For Gypsum Board.....	56.26	5.51
09 29 10 00-0185	LF			7-3/8", Aluminum Extrusions, Bullnose For Gypsum Board.....	93.29	7.81
09 29 10 00-0186	LF			3/4" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	9.42	1.70
09 29 10 00-0187	LF			1" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	10.75	1.78
09 29 10 00-0188	LF			1-1/2" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	12.91	2.17
09 29 10 00-0189	LF			2"R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	15.83	2.44
09 29 10 00-0190	LF			2-1/2" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	22.42	2.80
09 29 10 00-0191	LF			3"R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	24.24	3.26
09 29 10 00-0192	LF			4" R, Aluminum Extrusions, Inside Corner For Gypsum Board.....	27.56	4.34
09 29 10 00-0193	LF			3-5/8", Aluminum Extrusions, Aluminum Wall Cap For Gypsum Board.....	17.54	3.26
09 29 10 00-0194	LF			3-7/8", Aluminum Extrusions, Aluminum Wall Cap For Gypsum Board.....	17.79	3.26
09 29 10 00-0195	LF			4-3/4", Aluminum Extrusions, Aluminum Wall Cap For Gypsum Board.....	19.34	3.26
09 29 10 00-0196	LF			5", Aluminum Extrusions, Aluminum Wall Cap For Gypsum Board.....	19.82	3.26

**09 29 82 Gypsum Board Fire Protection (09 29)**

<b>09 29 82 00-0001 Shaft Wall (09 29 82)</b>						
See CSI section 09 29 10 00-0036 for finishing drywall.						
09 29 82 00-0002	SF			3/4" Fire Rated Shaft Wall Assembly.....	7.82	3.18
				Note: 1/4" thick fiber-cement board with tapered edges over 1/2" thick type "X" gypsum board. Excludes studs or wall structure.		
				<i>For Horizontal Installation Up To 10' High, Add</i>	2.16	
				<i>For Horizontal Installation &gt;10' High, Add</i>	3.18	
				<i>For Walls &gt;10' High, Add</i>	0.51	
				<i>For Up To 128, Add</i>	2.83	
				<i>For &gt;128 To 320, Add</i>	1.73	
				<i>For &gt;1,536, Deduct</i>	-0.54	
09 29 82 00-0003	SF			7/8" Fire Rated Shaft Wall Assembly.....	9.14	3.81
				Note: 1/4" thick fiber-cement board with tapered edges over 5/8" thick type "X" gypsum board. Excludes studs or wall structure.		
				<i>For Horizontal Installation Up To 10' High, Add</i>	2.59	
				<i>For Horizontal Installation &gt;10' High, Add</i>	3.82	
				<i>For Walls &gt;10' High, Add</i>	0.61	
				<i>For Up To 128, Add</i>	3.35	
				<i>For &gt;128 To 320, Add</i>	2.06	
				<i>For &gt;1,536, Deduct</i>	-0.61	
09 29 82 00-0004	SF			2-1/2", 25 Gauge C-H Stud/J-Runner, 1" Gypsum Liner Panel Shaft Wall Assembly.....	7.65	2.45
				Note: Includes sealant installed at top of wall and panel gaps. Excludes additional gypsum panels and finishing.		
				<i>For Horizontal Installation Up To 10' High, Add</i>	1.66	
				<i>For Horizontal Installation &gt;10' High, Add</i>	2.45	
				<i>For Walls &gt;10' High, Add</i>	0.39	
				<i>For Up To 128, Add</i>	2.51	
				<i>For &gt;128 To 320, Add</i>	1.50	
				<i>For Glass Mat Surfaces, Add</i>	0.32	
09 29 82 00-0005	SF			4", 25 Gauge C-H Stud/J-Runner, 1" Gypsum Liner Panel Shaft Wall Assembly.....	8.14	2.57
				Note: Includes sealant installed at top of wall and panel gaps. Excludes additional gypsum panels and finishing.		
				<i>For Horizontal Installation Up To 10' High, Add</i>	1.74	
				<i>For Horizontal Installation &gt;10' High, Add</i>	2.57	
				<i>For Walls &gt;10' High, Add</i>	0.41	
				<i>For Up To 128, Add</i>	2.65	
				<i>For &gt;128 To 320, Add</i>	1.58	
				<i>For Glass Mat Surfaces, Add</i>	0.32	
09 29 82 00-0006	SF			2-1/2", 20 Gauge C-H Stud/J-Runner, 1" Gypsum Liner Panel Shaft Wall Assembly.....	8.79	2.57
				Note: Includes sealant installed at top of wall and panel gaps. Excludes additional gypsum panels and finishing.		
				<i>For Horizontal Installation Up To 10' High, Add</i>	1.74	
				<i>For Horizontal Installation &gt;10' High, Add</i>	2.57	
				<i>For Walls &gt;10' High, Add</i>	0.41	
				<i>For Up To 128, Add</i>	2.78	
				<i>For &gt;128 To 320, Add</i>	1.65	
				<i>For Glass Mat Surfaces, Add</i>	0.32	

**09 Finishes**

**09 20 Plaster and Gypsum Board**

**09 29 Gypsum Board**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 29 82 00-0007	SF		4", 20 Gauge C-H Stud/J-Runner, 1" Gypsum Liner Panel Shaft Wall Assembly	9.30	2.70
			Note: Includes sealant installed at top of wall and panel gaps. Excludes additional gypsum panels and finishing.		
			For Horizontal Installation Up To 10' High, Add	1.83	
			For Horizontal Installation >10' High, Add	2.69	
			For Walls >10' High, Add	0.43	
			For Up To 128, Add	2.94	
			For >128 To 320, Add	1.74	
			For Glass Mat Surfaces, Add	0.32	

**09 30 Tiling** <sup>(09)</sup>

Note: All tiles are standard grade ANSI 137.1 or higher, mounted and unmounted, cushioned or non-cushioned edge, all tile colors, all grout colors, PEI rating 1 through 4, and include patterns. Glazing shall meet ASTM C484 and C424. Mounted tiles are assembled into sheets to facilitate handling and installation. Perforated paper, fiber mesh, or other suitable bonding material applied to the front, backs or edges of the tile can be used to mount the tiles. Cushioned edge tile has facial edges with a distinct curvature that results in a slightly recessed joint. All floor, wall, ceiling, cove base and trim tile will be installed in accordance with ANSI 108.1 using these setting methods. Includes initial wax and seal.

**09 30 13 Ceramic Tiling** <sup>(09 30)</sup>

Note: Includes grout and sealing. Excludes setting method. See CSI section 09 31 00 00-0000 for thin-set, 09 32 00 00-0000 for mortar-bed, 09 35 00 00-0000 for chemical-resistant.

**09 30 13 00-0001 Ceramic Tiling** <sup>(09 30 13)</sup>

09 30 13 00-0002	SF		2" x 2" x 1/4" Thick, Mounted, Unpolished Ceramic Floor Tile	17.16	3.18
			Note: Tiles mounted from back, side or front in 12" x 12", 12" x 24", 12" x 48", or similar sized sheets.		
			For Up To 50, Add	9.05	
			For >50 To 250, Add	1.27	
			For >1,000, Deduct	-0.64	
			For High-Modulus, High-Strength Epoxy Grout, Add	1.40	
			For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.57	
09 30 13 00-0003	SF		Less Than 8" x 8", Mounted, Ceramic Floor Tile	11.77	3.18
			Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets.		
			For Up To 50, Add	7.71	
			For >50 To 250, Add	1.27	
			For >1,000, Deduct	-0.64	
			For High-Modulus, High-Strength Epoxy Grout, Add	1.40	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
			For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.57	
09 30 13 00-0004	SF		8" x 8" And Larger Unmounted Ceramic Floor Tile	13.36	1.99
			Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles.		
			For Up To 50, Add	9.30	
			For >50 To 250, Add	1.59	
			For >1,000, Deduct	-0.79	
			For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
			For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.81	
09 30 13 00-0005	SF		2" x 2" x 1/4" Thick, Mounted, Unpolished Ceramic Wall Tile	18.51	3.85
			Note: Tiles mounted from back, side or front in 12" x 12", 12" x 24", 12" x 48", or similar sized sheets.		
			For Up To 50, Add	10.40	
			For >50 To 250, Add	1.54	
			For >1,000, Deduct	-0.77	
			For High-Modulus, High-Strength Epoxy Grout, Add	1.61	
			For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.78	
09 30 13 00-0006	SF		Less than 8" x 8" Mounted Ceramic Wall Tile	13.12	3.85
			Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets.		
			For Up To 50, Add	9.06	
			For >50 To 250, Add	1.54	
			For >1,000, Deduct	-0.77	
			For High-Modulus, High-Strength Epoxy Grout, Add	1.61	
			For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	1.78	
09 30 13 00-0007	SF		8" x 8" And Larger Unmounted Ceramic Wall Tile	15.16	2.44
			Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles.		
			For Up To 50, Add	11.10	
			For >50 To 250, Add	1.95	
			For >1,000, Deduct	-0.97	
			For High-Modulus, High-Strength Epoxy Grout, Add	1.91	
			For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	2.08	
09 30 13 00-0008	SF		Less than 8" x 8" Mounted Ceramic Ceiling Tile	18.77	6.68
			Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets.		
			For High-Modulus, High-Strength Epoxy Grout, Add	2.45	
			For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	2.62	
			For Up To 50, Add	14.71	
			For >50 To 250, Add	2.67	
			For >1,000, Deduct	-1.34	
09 30 13 00-0009	SF		8" x 8" And Larger Unmounted Ceramic Ceiling Tile	21.45	4.00
			Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles.		
			For High-Modulus, High-Strength Epoxy Grout, Add	2.85	
			For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add	3.02	
			For Up To 50, Add	17.39	
			For >50 To 250, Add	3.21	
			For >1,000, Deduct	-1.60	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Tiling	09 30	
Ceramic Tiling	09 30 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 13 00-0010	LF		4-1/4" To 4-1/2" High, Ceramic Cove Base Or Trim ..... Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. <i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	12.46 1.89	2.78
			<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	1.98	
09 30 13 00-0011	LF		6" High x 12" Long, Unpolished Ceramic Cove Base (Daltile Portfolio) ..... <i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	20.70 1.89	2.78
			<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	1.98	
09 30 13 00-0012	LF		6" High x 24" Long, Unpolished Ceramic Cove Base (Daltile Portfolio) ..... <i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	23.31 1.89	2.78
			<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	1.98	
09 30 13 00-0013	EA		6" High, Unpolished Ceramic Cove Base Outer Corner.....	18.54	0.61
<b>09 30 13 00-0014 Residential Ceramic Tiling (09 30 13)</b>					
09 30 13 00-0015	SF		Mounted Ceramic Floor Tile, Residential Grade ..... Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets. <i>For Up To 50, Add</i>	9.77 7.21	3.18
			<i>For &gt;50 To 250, Add</i>	1.27	
			<i>For &gt;1,000, Deduct</i>	-0.64	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.40	
09 30 13 00-0016	SF		Mounted Ceramic Wall Tile, Residential Grade ..... Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets. <i>For Up To 50, Add</i>	11.12 8.56	3.85
			<i>For &gt;50 To 250, Add</i>	1.54	
			<i>For &gt;1,000, Deduct</i>	-0.77	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.61	
09 30 13 00-0017	SF		2" x 2" x 1/4" Thick, Unpolished Ceramic Mounted Floor Tile, Residential Grade ..... Note: Tiles mounted from back, side or front in 12" x 12", 12" x 24", 12" x 48", or similar sized sheets. <i>For Up To 50, Add</i>	12.09 7.79	3.18
			<i>For &gt;50 To 250, Add</i>	1.27	
			<i>For &gt;1,000, Deduct</i>	-0.64	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.40	
<b>09 30 16 Quarry Tiling (09 30)</b>					
Note: Includes grout and sealing. Excludes setting method. See CSI section 09 31 00 00-0000 for thin-set, 09 32 00 00-0000 for mortar-bed, 09 35 00 00-0000 for chemical-resistant.					
09 30 16 00-0001	SF		Unglazed Quarry Floor Tile..... Note: With or without embedded abrasive grit. <i>For Up To 50, Add</i>	12.84 9.88	2.24
			<i>For &gt;50 To 250, Add</i>	1.78	
			<i>For &gt;1,000, Deduct</i>	-0.89	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.78	
			<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	1.95	
09 30 16 00-0002	SF		Glazed Quarry Floor Tile ..... <i>For Up To 50, Add</i>	25.36 13.01	2.24
			<i>For &gt;50 To 250, Add</i>	1.78	
			<i>For &gt;1,000, Deduct</i>	-0.89	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.78	
			<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	1.95	
09 30 16 00-0003	SF		Unglazed Quarry Wall Tile..... Note: With or without embedded abrasive grit. <i>For Up To 50, Add</i>	14.63 11.67	2.64
			<i>For &gt;50 To 250, Add</i>	2.14	
			<i>For &gt;1,000, Deduct</i>	-1.07	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	2.05	
			<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	2.22	
09 30 16 00-0004	SF		Glazed Quarry Wall Tile..... <i>For Up To 50, Add</i>	27.15 14.80	2.64
			<i>For &gt;50 To 250, Add</i>	2.14	
			<i>For &gt;1,000, Deduct</i>	-1.07	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	2.05	
			<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	2.22	
09 30 16 00-0005	LF		6" High Unglazed Quarry Tile Cove Base Or Trim..... <i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	18.03 1.98	2.94
			<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	2.07	
09 30 16 00-0006	LF		6" High Glazed Quarry Tile Cove Base Or Trim ..... <i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	38.54 1.98	2.94
			<i>For High-Modulus, Low-Viscosity, High-Strength Chemical Resistant Epoxy Grout, Add</i>	2.07	
<b>09 30 33 Stone Tiling (09 30)</b>					
Note: Excludes setting method. See CSI section 09 31 00 00-0000 for thin-set, 09 32 00 00-0000 for mortar-bed, 09 35 00 00-0000 for chemical-resistant.					
<b>09 30 33 00-0001 Marble Floor Tile (09 30 33)</b>					
09 30 33 00-0002	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Cherry Blossom" ..... <i>For Up To 50, Add</i>	11.63 8.86	1.99
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	

## 09 Finishes

## 09 30 Tiling

## 09 30 33 Stone Tiling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0003	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Laurent Brown".....	11.98	1.99
			<i>For Up To 50, Add</i>	8.95	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0004	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Temple Gray" .....	12.16	1.99
			<i>For Up To 50, Add</i>	9.00	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0005	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Emperador Cafe".....	12.24	1.99
			<i>For Up To 50, Add</i>	9.02	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0006	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "China Black".....	12.29	1.99
			<i>For Up To 50, Add</i>	9.03	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0007	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Sea Grass Honed".....	12.37	1.99
			<i>For Up To 50, Add</i>	9.05	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0008	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Gris Magma or Gris Nebula".....	12.56	1.99
			<i>For Up To 50, Add</i>	9.10	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0009	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Dark Green".....	13.76	1.99
			<i>For Up To 50, Add</i>	9.40	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0010	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Cappuccino Light" .....	13.89	1.99
			<i>For Up To 50, Add</i>	9.43	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0011	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Botticino Cream".....	14.14	1.99
			<i>For Up To 50, Add</i>	9.49	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0012	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Crema Marfil Classic".....	14.42	1.99
			<i>For Up To 50, Add</i>	9.56	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0013	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Arabescato Carrara".....	14.61	1.99
			<i>For Up To 50, Add</i>	9.61	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0014	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Giallo Crystal Onyx" .....	15.27	1.99
			<i>For Up To 50, Add</i>	9.77	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0015	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Cafe Forest or Rain Forest".....	16.51	1.99
			<i>For Up To 50, Add</i>	10.08	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0016	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Arabescato".....	16.59	1.99
			<i>For Up To 50, Add</i>	10.10	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Tiling	09 30	
Stone Tiling	09 30 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0017 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Carrara White".....	17.52	1.99
For Up To 50, Add	10.34	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0018 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Crema Marfil Select Or Sahara Gold".....	17.83	1.99
For Up To 50, Add	10.41	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0019 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Botticino Fiorito Or Michelangelo".....	17.96	1.99
For Up To 50, Add	10.45	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0020 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Crema Marfil Antique".....	18.17	1.99
For Up To 50, Add	10.50	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0021 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Emperador Dark Or Super Thassos Glass".....	19.89	1.99
For Up To 50, Add	10.93	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0022 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Rosa Verona".....	20.87	1.99
For Up To 50, Add	11.17	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0023 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Rojo Alicante".....	21.13	1.99
For Up To 50, Add	11.24	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0024 SF 12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Emperador Light".....	21.26	1.99
For Up To 50, Add	11.27	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
<b>09 30 33 00-0025 Granite Floor Tile <small>(09 30 33)</small></b>		
09 30 33 00-0026 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Crystal Gray".....	10.71	1.99
For Up To 50, Add	8.63	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0027 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Peach Flower".....	11.37	1.99
For Up To 50, Add	8.80	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0028 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Golden Yellow".....	11.90	1.99
For Up To 50, Add	8.93	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0029 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Absolute Black".....	14.01	1.99
For Up To 50, Add	9.46	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0030 SF 12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Tan Brown".....	14.42	1.99
For Up To 50, Add	9.56	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	

**09 Finishes****09 30 Tiling****09 30 33 Stone Tiling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0031	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Black Galaxy" .....	14.80	1.99
			<i>For Up To 50, Add</i>	9.66	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0032	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Kashmir White Or Gold" .....	15.19	1.99
			<i>For Up To 50, Add</i>	9.75	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0033	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Giallo Santa Cecilia" .....	15.67	1.99
			<i>For Up To 50, Add</i>	9.87	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0034	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Verde UbaTuba" .....	16.12	1.99
			<i>For Up To 50, Add</i>	9.99	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0035	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "New Venetian Gold" .....	16.59	1.99
			<i>For Up To 50, Add</i>	10.10	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0036	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Tropic Brown" .....	17.04	1.99
			<i>For Up To 50, Add</i>	10.22	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0037	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Baltic Brown Or Indian Dakota" .....	17.57	1.99
			<i>For Up To 50, Add</i>	10.35	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0038	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Dynamic Blue" .....	18.10	1.99
			<i>For Up To 50, Add</i>	10.48	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0039	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Blue Pearl Or Emerald Pearl" .....	19.94	1.99
			<i>For Up To 50, Add</i>	10.94	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
<b>09 30 33 00-0040</b>			<b>Slate Floor Tile</b> <small>(09 30 33)</small>		
09 30 33 00-0041	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Raja Classic" .....	9.92	1.99
			<i>For Up To 50, Add</i>	8.44	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0042	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Rustic Gold" .....	10.26	1.99
			<i>For Up To 50, Add</i>	8.52	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0043	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "California Gold Or Black Rust" .....	10.45	1.99
			<i>For Up To 50, Add</i>	8.57	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0044	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Indian Autumn" .....	10.45	1.99
			<i>For Up To 50, Add</i>	8.57	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Tiling	09 30	
Stone Tiling	09 30 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0045 SF 12" x 12" And Larger Unmounted Slate Floor Tile, "China Multi, Earth, Or Autumn Blend".....	10.58	1.99
For Up To 50, Add	8.60	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0046 SF 12" x 12" And Larger Unmounted Slate Floor Tile, "Lilac Kashmir Or Madras Yellow".....	10.97	1.99
For Up To 50, Add	8.70	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0047 SF 12" x 12" And Larger Unmounted Slate Floor Tile, "Montauk Blue, Copper Quartzite, Montauk Black, San Rio Rustic, Or Gold Green Quartzite".....	11.37	1.99
For Up To 50, Add	8.80	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0048 SF 12" x 12" And Larger Unmounted Slate Floor Tile, "Ocean Green Quartzite Or Golden White Quartzite".....	11.50	1.99
For Up To 50, Add	8.83	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
<b>09 30 33 00-0049 Travertine Floor Tile</b> (09 30 33)		
09 30 33 00-0050 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Noce Rustic".....	11.37	1.99
For Up To 50, Add	8.80	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0051 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Denizli Beige Or Oasis Walnut".....	11.77	1.99
For Up To 50, Add	8.90	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0052 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Oasis Gold".....	12.03	1.99
For Up To 50, Add	8.96	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0053 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Navona Light - Ivory".....	12.42	1.99
For Up To 50, Add	9.06	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0054 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Oasis Noce".....	12.56	1.99
For Up To 50, Add	9.10	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0055 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Durango Antique".....	12.69	1.99
For Up To 50, Add	9.13	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0056 SF 12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Durango Cream".....	13.95	1.99
For Up To 50, Add	9.44	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
<b>09 30 33 00-0057 Limestone Floor Tile</b> (09 30 33)		
09 30 33 00-0058 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Isis Gold".....	13.88	1.99
For Up To 50, Add	9.43	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0059 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Tiara Beige".....	14.27	1.99
For Up To 50, Add	9.52	
For >50 To 250, Add	1.59	
For >1,000, Deduct	-0.79	
For High-Modulus, High-Strength Epoxy Grout, Add	1.64	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	

**09 Finishes**

**09 30 Tiling**

**09 30 33 Stone Tiling**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0060	SF		12" x 12" And Larger Unmounted Limestone Floor Tile, "Halila Cream" .....	16.33	1.99
			<i>For Up To 50, Add</i>	10.04	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0061	SF		12" x 12" And Larger Unmounted Limestone Floor Tile, "Ramon Gold" .....	17.57	1.99
			<i>For Up To 50, Add</i>	10.35	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0062	SF		12" x 12" And Larger Unmounted Limestone Floor Tile, "Chestnut Brown Or Jerusalem Bone" .....	17.57	1.99
			<i>For Up To 50, Add</i>	10.35	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0063	SF		12" x 12" And Larger Unmounted Limestone Floor Tile, "Lagos Blue" .....	17.96	1.99
			<i>For Up To 50, Add</i>	10.45	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0064	SF		12" x 12" And Larger Unmounted Limestone Floor Tile, "Jura Gray" .....	19.41	1.99
			<i>For Up To 50, Add</i>	10.81	
			<i>For &gt;50 To 250, Add</i>	1.59	
			<i>For &gt;1,000, Deduct</i>	-0.79	
			<i>For High-Modulus, High-Strength Epoxy Grout, Add</i>	1.64	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	

**09 31 Thin-Set Tiling** (09 30)

Note: Tile setting methods in this section are used with ceramic or quarry tile materials as applicable, for a complete installation.

**09 31 13 Thin-Set Ceramic Tiling** (09 31)

**09 31 13 00-0001 Thin-Set Ceramic Tiling** (09 31 13)

09 31 13 00-0002	SF		Thin Set - Latex Portland Cement Mortar .....	1.82	1.05
			<i>For Up To 50, Add</i>	1.65	
			<i>For &gt;50 To 250, Add</i>	0.32	
			<i>For &gt;1,000, Deduct</i>	-0.16	
09 31 13 00-0003	SF		Clean And Scarify Existing Tile For Installation Of New Tile Over Existing.....	1.01	
			<i>For Up To 50, Add</i>	1.01	
			<i>For &gt;50 To 250, Add</i>	0.20	
			<i>For &gt;1,000, Deduct</i>	-0.10	

**09 32 Mortar-Bed Tiling** (09 30)

Note: Tile setting methods in this section are used with ceramic or quarry tile materials as applicable, for a complete installation.

**09 32 13 Mortar-Bed Ceramic Tiling** (09 32)

**09 32 13 00-0001 Mortar-Bed Ceramic Tiling** (09 32 13)

09 32 13 00-0002	SF		3/4" Minimum Thickness Portland Cement Mortar Setting Bed .....	5.19	2.12
			Note: For residential floors. Includes 15 LB felt and wire reinforcement.		
			<i>For Up To 50, Add</i>	3.68	
			<i>For &gt;50 To 250, Add</i>	0.64	
			<i>For &gt;1,000, Deduct</i>	-0.32	
			<i>For Exterior Installation (Galvanized Reinforcement), Add</i>	0.15	
09 32 13 00-0003	SF		1-1/4" Minimum Thickness Portland Cement Mortar Setting Bed .....	7.45	2.83
			Note: For commercial floors. Includes 15 LB felt and wire reinforcement.		
			<i>For Up To 50, Add</i>	5.04	
			<i>For &gt;50 To 250, Add</i>	0.85	
			<i>For &gt;1,000, Deduct</i>	-0.42	
			<i>For Exterior Installation (Galvanized Reinforcement), Add</i>	0.15	
09 32 13 00-0004	SF		3/4" Portland Cement Plaster Scratch Coat for Walls .....	15.19	6.35
			Note: Includes 15 LB felt and expanded metal lath.		
			<i>For Up To 50, Add</i>	13.33	
			<i>For &gt;50 To 250, Add</i>	2.54	
			<i>For &gt;1,000, Deduct</i>	-1.27	
			<i>For Exterior Installation (Galvanized Reinforcement), Add</i>	0.15	
			<i>For Installation Without Felt And Metal Lath, Deduct</i>	-2.24	

**09 34 Waterproofing-Membrane Tiling** (09 30)

**09 34 00 00-0001 Bonded Waterproofing System for Tiled Showers, Steam Showers, and Bathtub Surrounds** (09 34)

**09 34 00 00-0002 Prefabricated Assemblies For Tiled Showers (Schluter® KERDI Shower ST)** (09 34 00 00-0001)

Note: For creating a watertight sloped shower assembly without a mortar bed. Includes a prefabricated polystyrene foam shower tray, 6" x 4-1/2" prefabricated polystyrene foam shower curb, waterproofing membrane for shower tray and surround, and center shower drain. Excludes tile, mortar, grout and shower accessories.





		<b>Finishes</b>	<b>09</b>
		Tiling	09 30
		Waterproofing-Membrane Tiling	09 34

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 34 00 00-0003	EA		48" x 48", Prefabricated Assembly For Tiled Showers (Schluter® KERDI Shower ST/SC).....	1,404.82	
09 34 00 00-0004	EA		32" x 60", Prefabricated Assembly For Tiled Showers (Schluter® KERDI Shower ST/SC).....	1,627.77	
09 34 00 00-0005	EA		72" x 72", Prefabricated Assembly For Tiled Showers (Schluter® KERDI Shower ST/SC).....	2,410.44	
<b>09 34 00 00-0006</b>			<b>Prefabricated Polystyrene Shower Curbs And Ramps</b> (09 34 00 00-0001)		
Note: Prefabricated shower curbs and ramps for tiling over. Excludes tile.					
09 34 00 00-0007	EA		15-7/8" Width, 48" Length, Prefabricated Polystyrene Shower Ramp (Schluter® SR-122).....	170.48	
09 34 00 00-0008	EA		4-1/2" Width, 6" Height, 48" Length, Prefabricated Polystyrene Shower Curb (Schluter® SC-122).....	162.66	
<b>09 34 00 00-0009</b>			<b>Prefabricated Polystyrene Shower Benches</b> (09 34 00 00-0001)		
Note: Prefabricated shower bench for tiling over. Excludes tile.					
09 34 00 00-0010	EA		16" Width, 16" Depth, 20" Height, Triangular Prefabricated Polystyrene Shower Bench (Schluter® SB41).....	349.74	
09 34 00 00-0011	EA		32" Width, 16" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB4181).....	701.97	
09 34 00 00-0012	EA		48" Width, 16" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB41122).....	866.35	
09 34 00 00-0013	EA		32" Width, 11-1/2" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB2981).....	631.53	
09 34 00 00-0014	EA		42" Width, 11-1/2" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB29107).....	701.97	
09 34 00 00-0015	EA		48" Width, 11-1/2" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB29122).....	748.94	
<b>09 34 00 00-0016</b>			<b>Prefabricated Polystyrene Shower Tray</b> (09 34 00 00-0001)		
Note: Prefabricated shower tray for tiling over. Excludes tile.					
09 34 00 00-0017	EA		32" x 60", Prefabricated Polystyrene Shower Tray (Schluter® ST-81/152).....	299.63	
09 34 00 00-0018	EA		48" x 48", Prefabricated Polystyrene Shower Tray (Schluter® ST-122).....	299.63	
09 34 00 00-0019	EA		72" x 72", Prefabricated Polystyrene Shower Tray (Schluter® ST-183).....	464.01	
<b>09 34 00 00-0020</b>			<b>Waterproofing, Uncoupling And Vapor Management Membranes</b> (Schluter® DITRA) (09 34 00 00-0001)		
09 34 00 00-0021	SF		1/8" Thick, High-Density Polyethylene Membrane With Grid Structure And Underside Anchoring Fleece, Waterproofing, Uncoupling And Vapor Management Membrane (Schluter® DITRA).....	5.22	
09 34 00 00-0022	SF		5/16" Thick, High-Density Polyethylene Membrane With Grid Structure And Underside Anchoring Fleece, Waterproofing, Uncoupling And Vapor Management Membrane (Schluter® DITRA-XL).....	6.04	
<b>09 34 00 00-0023</b>			<b>Bonded Waterproof Underlayment Membranes (Schluter® KERDI)</b> (09 34 00 00-0001)		
09 34 00 00-0024	SF		0.008" Polyethylene Membrane With Polypropylene Fleece Laminated On Both Sides, Bonded Waterproof Underlayment Membrane (Schluter® KERDI 200/5M).....	4.59	
<b>09 35</b>			<b>Chemical-Resistant Tiling</b> (09 30)		
Note: Tile setting methods in this section are used with ceramic or quarry tile materials as applicable, for a complete installation.					
<b>09 35 13</b>			<b>Chemical-Resistant Ceramic Tiling</b> (09 35)		
<b>09 35 13 00-0001</b>			<b>Chemical-Resistant Ceramic Tiling</b> (09 35 13)		
09 35 13 00-0002	SF		Thin Set - Epoxy Mortar.....	6.04	1.40
Note: Impact and chemical resistant.					
For Up To 50, Add				3.10	
For >50 To 250, Add				0.42	
For >1,000, Deduct				-0.21	
<b>09 39</b>			<b>Tiling Transitions</b> (09 30)		
<b>09 39 00 00-0001</b>			<b>Tile Waterproofing And Crack Prevention</b> (09 39)		
09 39 00 00-0002	CSF		30 Mil Waterproofing And Crack Prevention Membrane; RedGard.....	124.23	
<b>09 39 00 00-0003</b>			<b>Waterproof Strip Membranes (Schluter® KERDI)</b> (09 39)		
09 39 00 00-0004	LF		5" Wide, 4 mil Polyethylene Waterproof Strip Membrane (Schluter® KERDI BAND).....	5.63	
09 39 00 00-0005	LF		10" Wide, 12 mil Polyethylene Waterproof Strip Membrane (Schluter® KERDI FLEX).....	11.89	
<b>09 39 00 00-0006</b>			<b>Coved Shaped Transition Profiles For Floor To Wall For Tile</b> (09 39)		
09 39 00 00-0007	LF		5/16" Height, Satin Anodized Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-AHK).....	7.81	
09 39 00 00-0008	LF		3/8" Height, Satin Anodized Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-AHK).....	7.78	
09 39 00 00-0009	LF		1/2" Height, Satin Anodized Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-AHK).....	8.08	
09 39 00 00-0010	LF		5/16" Height, PVC Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-PHK).....	7.42	
09 39 00 00-0011	LF		3/8" Height, Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-PHK).....	7.72	
<b>09 39 00 00-0012</b>			<b>Coved Shaped Inside Edge Protection And Transition Profiles For Wall To Wall For Tile</b> (09 39)		
09 39 00 00-0013	LF		9/32" x 9/32" Height, Stainless Steel Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-EHK).....	16.09	
09 39 00 00-0014	LF		11/32" x 11/32" Height, Stainless Steel Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-EHK).....	16.55	
09 39 00 00-0015	LF		7/16" x 7/16" Height, Stainless Steel Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-EHK).....	17.06	

**09 Finishes****09 30 Tiling****09 39 Tiling Transitions**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>09 39 00 00-0016</b>	<b>Tile Substrate (Schluter® KERDI BOARD) (09 39)</b>		
09 39 00 00-0017	SF 1/2" Tile Substrate And Building Panel (Schluter® KERDI BOARD) .....	9.52	0.89
09 39 00 00-0018	SF 5/8" Tile Substrate And Building Panel (Schluter® KERDI BOARD) .....	10.73	1.02

<b>09 39 00 00-0019</b>	<b>Floor Edge Protection And Transition Profiles For Tile (09 39)</b>		
09 39 00 00-0020	LF 1/4" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE).....	4.08	
09 39 00 00-0021	LF 5/16" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE).....	4.19	
09 39 00 00-0022	LF 3/8" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE).....	4.33	
09 39 00 00-0023	LF 1/2" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE).....	4.54	
09 39 00 00-0024	LF 1/4" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS) .....	5.41	
09 39 00 00-0025	LF 5/16" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS) .....	5.58	
09 39 00 00-0026	LF 3/8" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS) .....	5.70	
09 39 00 00-0027	LF 1/2" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS) .....	5.83	
09 39 00 00-0028	LF 9/16" Height, Aluminum Transition Trim For Tile (Schluter® RENO-T).....	4.27	
09 39 00 00-0029	LF 1" Height, Aluminum Transition Trim For Tile (Schluter® RENO-T) .....	5.83	
09 39 00 00-0030	LF 1/4" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK).....	5.43	
09 39 00 00-0031	LF 5/16" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK).....	5.71	
09 39 00 00-0032	LF 3/8" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK).....	5.99	
09 39 00 00-0033	LF 1/2" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK).....	7.24	
09 39 00 00-0034	LF 5/16" Height, Aluminum Transition Trim For Tile (Schluter® RENO-U).....	5.62	
09 39 00 00-0035	LF 3/8" Height, Aluminum Transition Trim For Tile (Schluter® RENO-U).....	5.90	
09 39 00 00-0036	LF 1/2" Height, Aluminum Transition Trim For Tile (Schluter® RENO-U).....	7.16	

<b>09 39 00 00-0037</b>	<b>Outside Wall Edge Protection And Transition Profiles For Tile (09 39)</b>		
09 39 00 00-0038	LF 1/4" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC).....	5.59	
09 39 00 00-0039	LF 5/16" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC).....	5.89	
09 39 00 00-0040	LF 3/8" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC).....	6.32	
09 39 00 00-0041	LF 1/2" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC).....	6.76	
09 39 00 00-0042	LF 1/4" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC).....	6.18	
09 39 00 00-0043	LF 5/16" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC).....	6.74	
09 39 00 00-0044	LF 3/8" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC).....	7.30	
09 39 00 00-0045	LF 1/2" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC).....	8.27	

**09 50 Ceilings (09)**

Note: Includes cutting for area around columns, speakers, sprinklers, diffusers, etc.

**09 51 Acoustical Ceilings (09 50)**

Note: Excludes suspension system. See CSI section 09 53 00 00-0000 for suspension systems.

**09 51 13 Acoustical Panel Ceilings (09 51)**

Note: Includes cutting around sprinkler heads, speakers, or other penetrations through the ceiling.

**09 51 13 00-0001 Fiberglass Panels (09 51 13)****09 51 13 00-0002 Fiberglass Acoustical Panels (09 51 13 00-0001)**

Note: Includes square or tegular edge and class A fire rating.

09 51 13 00-0003	SF 2' x 2' x 3/4" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima®) .....	8.91	0.51
	For Up To 50, Add	2.00	
	For >50 To 200, Add	1.22	
	For >200 To 500, Add	0.53	
	For >2,500 To 4,000, Deduct	-0.22	
	For >4,000 To 5,000, Deduct	-0.45	
	For >5,000, Deduct	-0.71	
	For Individual Room Quantities <495, Add	1.22	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.12	
09 51 13 00-0004	SF 2' x 4' x 3/4" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima®) .....	8.85	0.51
	For Up To 50, Add	1.99	
	For >50 To 200, Add	1.22	
	For >200 To 500, Add	0.53	
	For >2,500 To 4,000, Deduct	-0.22	
	For >4,000 To 5,000, Deduct	-0.44	
	For >5,000, Deduct	-0.71	
	For Individual Room Quantities <495, Add	1.22	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.12	
09 51 13 00-0005	SF 2' x 2' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima®) .....	9.42	0.63
	For Up To 50, Add	2.13	
	For >50 To 200, Add	1.30	
	For >200 To 500, Add	0.56	
	For >2,500 To 4,000, Deduct	-0.24	
	For >4,000 To 5,000, Deduct	-0.47	
	For >5,000, Deduct	-0.75	
	For Individual Room Quantities <495, Add	1.30	
	Note: For use with projects >500 SF		
	For Ceilings >10' High, Add	0.13	



		<b>Finishes</b>	<b>09</b>
		Ceilings	09 50
		Acoustical Ceilings	09 51

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0006	SF		2' x 4' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima®) .....	9.52	0.63
			<i>For Up To 50, Add</i>	2.14	
			<i>For &gt;50 To 200, Add</i>	1.31	
			<i>For &gt;200 To 500, Add</i>	0.57	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.24	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.48	
			<i>For &gt;5,000, Deduct</i>	-0.76	
			<i>For Individual Room Quantities &lt;495, Add</i>	1.31	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Ceilings &gt;10' High, Add</i>	0.13	
09 51 13 00-0007	SF		2' x 2' x 1" Thick, Square or Beveled Tegular Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3352, 3354, and 3355) .....	9.78	0.63
			<i>For Up To 50, Add</i>	2.18	
			<i>For &gt;50 To 200, Add</i>	1.33	
			<i>For &gt;200 To 500, Add</i>	0.58	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.24	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.49	
			<i>For &gt;5,000, Deduct</i>	-0.78	
			<i>For Individual Room Quantities &lt;495, Add</i>	1.33	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Ceilings &gt;10' High, Add</i>	0.13	
09 51 13 00-0008	SF		2' x 4' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Optima® 3353) .....	9.77	0.63
			<i>For Up To 50, Add</i>	2.18	
			<i>For &gt;50 To 200, Add</i>	1.33	
			<i>For &gt;200 To 500, Add</i>	0.58	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.24	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.49	
			<i>For &gt;5,000, Deduct</i>	-0.78	
			<i>For Individual Room Quantities &lt;495, Add</i>	1.33	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Ceilings &gt;10' High, Add</i>	0.13	
09 51 13 00-0009	SF		2' x 2' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™) .....	10.18	0.63
			<i>For Up To 50, Add</i>	2.24	
			<i>For &gt;50 To 200, Add</i>	1.37	
			<i>For &gt;200 To 500, Add</i>	0.60	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.25	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.51	
			<i>For &gt;5,000, Deduct</i>	-0.81	
			<i>For Individual Room Quantities &lt;495, Add</i>	1.37	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Ceilings &gt;10' High, Add</i>	0.13	
09 51 13 00-0010	SF		2' x 4' x 1" Thick, Square Edge, Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™) .....	10.16	0.63
			<i>For Up To 50, Add</i>	2.24	
			<i>For &gt;50 To 200, Add</i>	1.37	
			<i>For &gt;200 To 500, Add</i>	0.60	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.25	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.51	
			<i>For &gt;5,000, Deduct</i>	-0.81	
			<i>For Individual Room Quantities &lt;495, Add</i>	1.37	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Ceilings &gt;10' High, Add</i>	0.13	
09 51 13 00-0011			<b>Mineral Fiber Panels</b> (09 51 13)		
09 51 13 00-0012			<b>Mineral Fiber Acoustical Ceiling Panels</b> (09 51 13 00-0011)		
			<i>Note: Includes square or tegular edge and class A fire rating.</i>		
09 51 13 00-0013	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega) .....	2.80	0.51
			<i>For Up To 50, Add</i>	1.08	
			<i>For &gt;50 To 200, Add</i>	0.61	
			<i>For &gt;200 To 500, Add</i>	0.22	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.07	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.14	
			<i>For &gt;5,000, Deduct</i>	-0.25	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.61	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0014	SF		2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega) .....	2.78	0.76
			<i>For Up To 50, Add</i>	1.08	
			<i>For &gt;50 To 200, Add</i>	0.61	
			<i>For &gt;200 To 500, Add</i>	0.22	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.07	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.14	
			<i>For &gt;5,000, Deduct</i>	-0.25	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.61	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	

**09 Finishes**

**09 50 Ceilings**

**09 51 Acoustical Ceilings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0015	SF		2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega) .....	3.06	0.51
			<i>For Up To 50, Add</i>	1.12	
			<i>For &gt;50 To 200, Add</i>	0.64	
			<i>For &gt;200 To 500, Add</i>	0.24	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.15	
			<i>For &gt;5,000, Deduct</i>	-0.27	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.64	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0016	SF		2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega) .....	3.06	0.51
			<i>For Up To 50, Add</i>	1.12	
			<i>For &gt;50 To 200, Add</i>	0.64	
			<i>For &gt;200 To 500, Add</i>	0.24	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.15	
			<i>For &gt;5,000, Deduct</i>	-0.27	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.64	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0017	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega Fire Guard) .....	3.27	0.76
			<i>For Up To 50, Add</i>	1.15	
			<i>For &gt;50 To 200, Add</i>	0.66	
			<i>For &gt;200 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.16	
			<i>For &gt;5,000, Deduct</i>	-0.29	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.66	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0018	SF		2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega Fire Guard) .....	3.28	0.76
			<i>For Up To 50, Add</i>	1.15	
			<i>For &gt;50 To 200, Add</i>	0.66	
			<i>For &gt;200 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.16	
			<i>For &gt;5,000, Deduct</i>	-0.29	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.66	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0019	SF		2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cortega Fire Guard) .....	3.55	0.76
			<i>For Up To 50, Add</i>	1.19	
			<i>For &gt;50 To 200, Add</i>	0.69	
			<i>For &gt;200 To 500, Add</i>	0.26	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.09	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.18	
			<i>For &gt;5,000, Deduct</i>	-0.31	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.69	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0020	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Designer) .....	3.04	0.51
			<i>For Up To 50, Add</i>	1.12	
			<i>For &gt;50 To 200, Add</i>	0.63	
			<i>For &gt;200 To 500, Add</i>	0.23	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.15	
			<i>For &gt;5,000, Deduct</i>	-0.27	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.63	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0021	SF		2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Designer) .....	3.03	0.76
			<i>For Up To 50, Add</i>	1.11	
			<i>For &gt;50 To 200, Add</i>	0.63	
			<i>For &gt;200 To 500, Add</i>	0.23	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.15	
			<i>For &gt;5,000, Deduct</i>	-0.27	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.63	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	



		<b>Finishes</b>	<b>09</b>
		Ceilings	09 50
		Acoustical Ceilings	09 51

09

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51	13 00-0022	SF	2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Designer) .....	3.45	0.51
			For Up To 50, Add	1.18	
			For >50 To 200, Add	0.68	
			For >200 To 500, Add	0.26	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.17	
			For >5,000, Deduct	-0.30	
			For Individual Room Quantities <495, Add	0.68	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51	13 00-0023	SF	2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured) .....	2.80	0.51
			For Up To 50, Add	1.08	
			For >50 To 200, Add	0.61	
			For >200 To 500, Add	0.22	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.14	
			For >5,000, Deduct	-0.25	
			For Individual Room Quantities <495, Add	0.61	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51	13 00-0024	SF	2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured) .....	2.78	0.51
			For Up To 50, Add	1.08	
			For >50 To 200, Add	0.61	
			For >200 To 500, Add	0.22	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.14	
			For >5,000, Deduct	-0.25	
			For Individual Room Quantities <495, Add	0.61	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51	13 00-0025	SF	2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured) .....	3.06	0.51
			For Up To 50, Add	1.12	
			For >50 To 200, Add	0.64	
			For >200 To 500, Add	0.24	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.15	
			For >5,000, Deduct	-0.27	
			For Individual Room Quantities <495, Add	0.64	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51	13 00-0026	SF	2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured) .....	2.82	0.51
			For Up To 50, Add	1.08	
			For >50 To 200, Add	0.61	
			For >200 To 500, Add	0.22	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.14	
			For >5,000, Deduct	-0.25	
			For Individual Room Quantities <495, Add	0.61	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51	13 00-0027	SF	2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured) .....	2.81	0.51
			For Up To 50, Add	1.08	
			For >50 To 200, Add	0.61	
			For >200 To 500, Add	0.22	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.14	
			For >5,000, Deduct	-0.25	
			For Individual Room Quantities <495, Add	0.61	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51	13 00-0028	SF	2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured) .....	3.20	0.51
			For Up To 50, Add	1.14	
			For >50 To 200, Add	0.65	
			For >200 To 500, Add	0.24	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.16	
			For >5,000, Deduct	-0.28	
			For Individual Room Quantities <495, Add	0.65	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	

## 09 Finishes

## 09 50 Ceilings

## 09 51 Acoustical Ceilings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0029	SF		2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....	3.20	0.51
			<i>For Up To 50, Add</i>	1.14	
			<i>For &gt;50 To 200, Add</i>	0.65	
			<i>For &gt;200 To 500, Add</i>	0.24	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.16	
			<i>For &gt;5,000, Deduct</i>	-0.28	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.65	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0030	SF		2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....	3.35	0.51
			<i>For Up To 50, Add</i>	1.16	
			<i>For &gt;50 To 200, Add</i>	0.67	
			<i>For &gt;200 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.17	
			<i>For &gt;5,000, Deduct</i>	-0.29	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.67	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0031	SF		2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....	3.90	0.51
			<i>For Up To 50, Add</i>	1.25	
			<i>For &gt;50 To 200, Add</i>	0.72	
			<i>For &gt;200 To 500, Add</i>	0.28	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.10	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.20	
			<i>For &gt;5,000, Deduct</i>	-0.33	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.72	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0032	SF		2' x 2' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....	3.27	0.51
			<i>For Up To 50, Add</i>	1.15	
			<i>For &gt;50 To 200, Add</i>	0.66	
			<i>For &gt;200 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.16	
			<i>For &gt;5,000, Deduct</i>	-0.29	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.66	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0033	SF		2' x 4' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....	3.92	0.51
			<i>For Up To 50, Add</i>	1.25	
			<i>For &gt;50 To 200, Add</i>	0.72	
			<i>For &gt;200 To 500, Add</i>	0.28	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.10	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.20	
			<i>For &gt;5,000, Deduct</i>	-0.34	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.72	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0034	SF		30" x 60" x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured).....	3.08	0.51
			<i>For Up To 50, Add</i>	1.12	
			<i>For &gt;50 To 200, Add</i>	0.64	
			<i>For &gt;200 To 500, Add</i>	0.24	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.15	
			<i>For &gt;5,000, Deduct</i>	-0.27	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.64	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	
09 51 13 00-0035	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured Fire Guard).....	3.35	0.76
			<i>For Up To 50, Add</i>	1.16	
			<i>For &gt;50 To 200, Add</i>	0.67	
			<i>For &gt;200 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.08	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.17	
			<i>For &gt;5,000, Deduct</i>	-0.29	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.67	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Vertical Application, Add</i>	0.74	
			<i>For Ceilings &gt;10' High, Add</i>	0.12	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0036 SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured Fire Guard) .....	3.29	0.76
For Up To 50, Add	1.15	
For >50 To 200, Add	0.66	
For >200 To 500, Add	0.25	
For >2,500 To 4,000, Deduct	-0.08	
For >4,000 To 5,000, Deduct	-0.16	
For >5,000, Deduct	-0.29	
For Individual Room Quantities <495, Add	0.66	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0037 SF 2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured Fire Guard) .....	3.68	0.76
For Up To 50, Add	1.21	
For >50 To 200, Add	0.70	
For >200 To 500, Add	0.27	
For >2,500 To 4,000, Deduct	-0.09	
For >4,000 To 5,000, Deduct	-0.18	
For >5,000, Deduct	-0.32	
For Individual Room Quantities <495, Add	0.70	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0038 SF 2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured Fire Guard) .....	3.68	0.76
For Up To 50, Add	1.21	
For >50 To 200, Add	0.70	
For >200 To 500, Add	0.27	
For >2,500 To 4,000, Deduct	-0.09	
For >4,000 To 5,000, Deduct	-0.18	
For >5,000, Deduct	-0.32	
For Individual Room Quantities <495, Add	0.70	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0039 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ceramaguard Fine Fissured) .....	8.47	0.89
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0040 SF 2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™) .....	3.52	0.51
For Up To 50, Add	1.19	
For >50 To 200, Add	0.68	
For >200 To 500, Add	0.26	
For >2,500 To 4,000, Deduct	-0.09	
For >4,000 To 5,000, Deduct	-0.18	
For >5,000, Deduct	-0.31	
For Individual Room Quantities <495, Add	0.68	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0041 SF 2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™) .....	3.51	0.51
For Up To 50, Add	1.19	
For >50 To 200, Add	0.68	
For >200 To 500, Add	0.26	
For >2,500 To 4,000, Deduct	-0.09	
For >4,000 To 5,000, Deduct	-0.18	
For >5,000, Deduct	-0.30	
For Individual Room Quantities <495, Add	0.68	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0042 SF 2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™) .....	4.08	0.51
For Up To 50, Add	1.27	
For >50 To 200, Add	0.74	
For >200 To 500, Add	0.29	
For >2,500 To 4,000, Deduct	-0.10	
For >4,000 To 5,000, Deduct	-0.20	
For >5,000, Deduct	-0.35	
For Individual Room Quantities <495, Add	0.74	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0043 SF 2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™) .....	3.75	0.51
For Up To 50, Add	1.22	
For >50 To 200, Add	0.71	
For >200 To 500, Add	0.27	
For >2,500 To 4,000, Deduct	-0.09	
For >4,000 To 5,000, Deduct	-0.19	
For >5,000, Deduct	-0.32	
For Individual Room Quantities <495, Add	0.71	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	

## 09 Finishes

## 09 50 Ceilings

## 09 51 Acoustical Ceilings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0044	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune).....	3.70	0.51
			For Up To 50, Add	1.22	
			For >50 To 200, Add	0.70	
			For >200 To 500, Add	0.27	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.19	
			For >5,000, Deduct	-0.32	
			For Individual Room Quantities <495, Add	0.70	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0045	SF		2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune).....	3.70	0.51
			For Up To 50, Add	1.22	
			For >50 To 200, Add	0.70	
			For >200 To 500, Add	0.27	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.19	
			For >5,000, Deduct	-0.32	
			For Individual Room Quantities <495, Add	0.70	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0046	SF		2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune) .....	3.88	0.51
			For Up To 50, Add	1.24	
			For >50 To 200, Add	0.72	
			For >200 To 500, Add	0.28	
			For >2,500 To 4,000, Deduct	-0.10	
			For >4,000 To 5,000, Deduct	-0.19	
			For >5,000, Deduct	-0.33	
			For Individual Room Quantities <495, Add	0.72	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0047	SF		2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune) .....	4.02	0.51
			For Up To 50, Add	1.26	
			For >50 To 200, Add	0.73	
			For >200 To 500, Add	0.28	
			For >2,500 To 4,000, Deduct	-0.10	
			For >4,000 To 5,000, Deduct	-0.20	
			For >5,000, Deduct	-0.34	
			For Individual Room Quantities <495, Add	0.73	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0048	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune Fire Guard).....	4.23	0.51
			For Up To 50, Add	1.29	
			For >50 To 200, Add	0.75	
			For >200 To 500, Add	0.29	
			For >2,500 To 4,000, Deduct	-0.11	
			For >4,000 To 5,000, Deduct	-0.21	
			For >5,000, Deduct	-0.36	
			For Individual Room Quantities <495, Add	0.75	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0049	SF		2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune Fire Guard).....	4.20	0.51
			For Up To 50, Add	1.29	
			For >50 To 200, Add	0.75	
			For >200 To 500, Add	0.29	
			For >2,500 To 4,000, Deduct	-0.11	
			For >4,000 To 5,000, Deduct	-0.21	
			For >5,000, Deduct	-0.36	
			For Individual Room Quantities <495, Add	0.75	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0050	SF		2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Mesa) .....	4.09	0.76
			For Up To 50, Add	1.27	
			For >50 To 200, Add	0.74	
			For >200 To 500, Add	0.29	
			For >2,500 To 4,000, Deduct	-0.10	
			For >4,000 To 5,000, Deduct	-0.20	
			For >5,000, Deduct	-0.35	
			For Individual Room Quantities <495, Add	0.74	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	





		<b>Finishes</b>	<b>09</b>
		Ceilings	09 50
		Acoustical Ceilings	09 51

09

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0051	SF		2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Mesa) .....	4.08	0.76
			For Up To 50, Add	1.27	
			For >50 To 200, Add	0.74	
			For >200 To 500, Add	0.29	
			For >2,500 To 4,000, Deduct	-0.10	
			For >4,000 To 5,000, Deduct	-0.20	
			For >5,000, Deduct	-0.35	
			For Individual Room Quantities <495, Add	0.74	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0052	SF		2' x 2' x 3/4" Thick, Beveled Tegalur Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Mesa) .....	4.40	0.51
			For Up To 50, Add	1.32	
			For >50 To 200, Add	0.77	
			For >200 To 500, Add	0.30	
			For >2,500 To 4,000, Deduct	-0.11	
			For >4,000 To 5,000, Deduct	-0.22	
			For >5,000, Deduct	-0.37	
			For Individual Room Quantities <495, Add	0.77	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0053	SF		2' x 4' x 3/4" Thick, Beveled Tegalur Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Mesa) .....	4.31	0.51
			For Up To 50, Add	1.31	
			For >50 To 200, Add	0.76	
			For >200 To 500, Add	0.30	
			For >2,500 To 4,000, Deduct	-0.11	
			For >4,000 To 5,000, Deduct	-0.22	
			For >5,000, Deduct	-0.36	
			For Individual Room Quantities <495, Add	0.76	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0054	SF		2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus) .....	5.23	0.76
			For Up To 50, Add	1.44	
			For >50 To 200, Add	0.85	
			For >200 To 500, Add	0.34	
			For >2,500 To 4,000, Deduct	-0.13	
			For >4,000 To 5,000, Deduct	-0.26	
			For >5,000, Deduct	-0.43	
			For Individual Room Quantities <495, Add	0.85	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0055	SF		2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus) .....	5.19	0.76
			For Up To 50, Add	1.44	
			For >50 To 200, Add	0.85	
			For >200 To 500, Add	0.34	
			For >2,500 To 4,000, Deduct	-0.13	
			For >4,000 To 5,000, Deduct	-0.26	
			For >5,000, Deduct	-0.43	
			For Individual Room Quantities <495, Add	0.85	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0056	SF		2' x 2' x 3/4" Thick, Beveled Tegalur Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus) .....	5.23	0.76
			For Up To 50, Add	1.44	
			For >50 To 200, Add	0.85	
			For >200 To 500, Add	0.34	
			For >2,500 To 4,000, Deduct	-0.13	
			For >4,000 To 5,000, Deduct	-0.26	
			For >5,000, Deduct	-0.43	
			For Individual Room Quantities <495, Add	0.85	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0057	SF		2' x 4' x 3/4" Thick, Beveled Tegalur Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus) .....	5.19	0.76
			For Up To 50, Add	1.44	
			For >50 To 200, Add	0.85	
			For >200 To 500, Add	0.34	
			For >2,500 To 4,000, Deduct	-0.13	
			For >4,000 To 5,000, Deduct	-0.26	
			For >5,000, Deduct	-0.43	
			For Individual Room Quantities <495, Add	0.85	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	

## 09 Finishes

## 09 50 Ceilings

## 09 51 Acoustical Ceilings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0058	SF		2' x 4' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Cirrus Second Look).....	5.71	0.51
			For Up To 50, Add	1.52	
			For >50 To 200, Add	0.90	
			For >200 To 500, Add	0.37	
			For >2,500 To 4,000, Deduct	-0.14	
			For >4,000 To 5,000, Deduct	-0.29	
			For >5,000, Deduct	-0.47	
			For Individual Room Quantities <495, Add	0.90	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0059	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Tundra).....	5.67	0.76
			For Up To 50, Add	1.51	
			For >50 To 200, Add	0.90	
			For >200 To 500, Add	0.37	
			For >2,500 To 4,000, Deduct	-0.14	
			For >4,000 To 5,000, Deduct	-0.28	
			For >5,000, Deduct	-0.47	
			For Individual Room Quantities <495, Add	0.90	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0060	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Tundra).....	5.66	0.76
			For Up To 50, Add	1.51	
			For >50 To 200, Add	0.90	
			For >200 To 500, Add	0.37	
			For >2,500 To 4,000, Deduct	-0.14	
			For >4,000 To 5,000, Deduct	-0.28	
			For >5,000, Deduct	-0.47	
			For Individual Room Quantities <495, Add	0.90	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0061	SF		2' x 2' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Tundra).....	6.10	0.51
			For Up To 50, Add	1.58	
			For >50 To 200, Add	0.94	
			For >200 To 500, Add	0.39	
			For >2,500 To 4,000, Deduct	-0.15	
			For >4,000 To 5,000, Deduct	-0.31	
			For >5,000, Deduct	-0.50	
			For Individual Room Quantities <495, Add	0.94	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0062	SF		2' x 4' x 5/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Tundra).....	6.10	0.51
			For Up To 50, Add	1.58	
			For >50 To 200, Add	0.94	
			For >200 To 500, Add	0.39	
			For >2,500 To 4,000, Deduct	-0.15	
			For >4,000 To 5,000, Deduct	-0.31	
			For >5,000, Deduct	-0.50	
			For Individual Room Quantities <495, Add	0.94	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0063	SF		2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®).....	5.69	0.51
			For Up To 50, Add	1.51	
			For >50 To 200, Add	0.90	
			For >200 To 500, Add	0.37	
			For >2,500 To 4,000, Deduct	-0.14	
			For >4,000 To 5,000, Deduct	-0.28	
			For >5,000, Deduct	-0.47	
			For Individual Room Quantities <495, Add	0.90	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0064	SF		2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®).....	5.69	0.51
			For Up To 50, Add	1.51	
			For >50 To 200, Add	0.90	
			For >200 To 500, Add	0.37	
			For >2,500 To 4,000, Deduct	-0.14	
			For >4,000 To 5,000, Deduct	-0.28	
			For >5,000, Deduct	-0.47	
			For Individual Room Quantities <495, Add	0.90	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	



<b>Finishes</b>	<b>09</b>	
Ceilings	09 50	09
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0065 SF 2' x 2' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®).....	5.69	0.51
For Up To 50, Add	1.51	
For >50 To 200, Add	0.90	
For >200 To 500, Add	0.37	
For >2,500 To 4,000, Deduct	-0.14	
For >4,000 To 5,000, Deduct	-0.28	
For >5,000, Deduct	-0.47	
For Individual Room Quantities <495, Add	0.90	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0066 SF 2' x 4' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®).....	5.69	0.51
For Up To 50, Add	1.51	
For >50 To 200, Add	0.90	
For >200 To 500, Add	0.37	
For >2,500 To 4,000, Deduct	-0.14	
For >4,000 To 5,000, Deduct	-0.28	
For >5,000, Deduct	-0.47	
For Individual Room Quantities <495, Add	0.90	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0067 SF 2' x 2' x 7/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima High-NRC).....	6.12	0.63
For Up To 50, Add	1.63	
For >50 To 200, Add	0.97	
For >200 To 500, Add	0.40	
For >2,500 To 4,000, Deduct	-0.15	
For >4,000 To 5,000, Deduct	-0.31	
For >5,000, Deduct	-0.50	
For Individual Room Quantities <495, Add	0.97	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.80	
For Ceilings >10' High, Add	0.13	
09 51 13 00-0068 SF 2' x 4' x 7/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima High-NRC).....	6.12	0.63
For Up To 50, Add	1.63	
For >50 To 200, Add	0.97	
For >200 To 500, Add	0.40	
For >2,500 To 4,000, Deduct	-0.15	
For >4,000 To 5,000, Deduct	-0.31	
For >5,000, Deduct	-0.50	
For Individual Room Quantities <495, Add	0.97	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.80	
For Ceilings >10' High, Add	0.13	
09 51 13 00-0069 SF 2' x 2' x 7/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima High-NRC).....	6.12	0.63
For Up To 50, Add	1.63	
For >50 To 200, Add	0.97	
For >200 To 500, Add	0.40	
For >2,500 To 4,000, Deduct	-0.15	
For >4,000 To 5,000, Deduct	-0.31	
For >5,000, Deduct	-0.50	
For Individual Room Quantities <495, Add	0.97	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.80	
For Ceilings >10' High, Add	0.13	
09 51 13 00-0070 SF 2' x 4' x 7/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima High-NRC).....	6.12	0.63
For Up To 50, Add	1.63	
For >50 To 200, Add	0.97	
For >200 To 500, Add	0.40	
For >2,500 To 4,000, Deduct	-0.15	
For >4,000 To 5,000, Deduct	-0.31	
For >5,000, Deduct	-0.50	
For Individual Room Quantities <495, Add	0.97	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.80	
For Ceilings >10' High, Add	0.13	
09 51 13 00-0071 SF 2' x 2' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™).....	6.39	0.51
For Up To 50, Add	1.62	
For >50 To 200, Add	0.97	
For >200 To 500, Add	0.40	
For >2,500 To 4,000, Deduct	-0.16	
For >4,000 To 5,000, Deduct	-0.32	
For >5,000, Deduct	-0.52	
For Individual Room Quantities <495, Add	0.97	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	

**09 Finishes**

**09 50 Ceilings**

**09 51 Acoustical Ceilings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0072	SF		2' x 4' x 3/4" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™) .....	6.39	0.51
			For Up To 50, Add	1.62	
			For >50 To 200, Add	0.97	
			For >200 To 500, Add	0.40	
			For >2,500 To 4,000, Deduct	-0.16	
			For >4,000 To 5,000, Deduct	-0.32	
			For >5,000, Deduct	-0.52	
			For Individual Room Quantities <495, Add	0.97	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0073	SF		2' x 2' x 3/4" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™) .....	6.39	0.51
			For Up To 50, Add	1.62	
			For >50 To 200, Add	0.97	
			For >200 To 500, Add	0.40	
			For >2,500 To 4,000, Deduct	-0.16	
			For >4,000 To 5,000, Deduct	-0.32	
			For >5,000, Deduct	-0.52	
			For Individual Room Quantities <495, Add	0.97	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0074	SF		2' x 2' x 7/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™ High-NRC) .....	7.24	0.51
			For Up To 50, Add	1.80	
			For >50 To 200, Add	1.08	
			For >200 To 500, Add	0.45	
			For >2,500 To 4,000, Deduct	-0.18	
			For >4,000 To 5,000, Deduct	-0.36	
			For >5,000, Deduct	-0.59	
			For Individual Room Quantities <495, Add	1.08	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.80	
			For Ceilings >10' High, Add	0.13	
09 51 13 00-0075	SF		2' x 4' x 7/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™ High-NRC) .....	7.14	0.51
			For Up To 50, Add	1.78	
			For >50 To 200, Add	1.07	
			For >200 To 500, Add	0.45	
			For >2,500 To 4,000, Deduct	-0.18	
			For >4,000 To 5,000, Deduct	-0.36	
			For >5,000, Deduct	-0.58	
			For Individual Room Quantities <495, Add	1.07	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.80	
			For Ceilings >10' High, Add	0.13	
09 51 13 00-0076	SF		2' x 2' x 7/8" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™ High-NRC) .....	7.19	0.51
			For Up To 50, Add	1.79	
			For >50 To 200, Add	1.08	
			For >200 To 500, Add	0.45	
			For >2,500 To 4,000, Deduct	-0.18	
			For >4,000 To 5,000, Deduct	-0.36	
			For >5,000, Deduct	-0.58	
			For Individual Room Quantities <495, Add	1.08	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.80	
			For Ceilings >10' High, Add	0.13	
09 51 13 00-0077	SF		2' x 2' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL) .....	6.73	0.51
			For Up To 50, Add	1.67	
			For >50 To 200, Add	1.00	
			For >200 To 500, Add	0.42	
			For >2,500 To 4,000, Deduct	-0.17	
			For >4,000 To 5,000, Deduct	-0.34	
			For >5,000, Deduct	-0.55	
			For Individual Room Quantities <495, Add	1.00	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	
09 51 13 00-0078	SF		2' x 4' x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL) .....	6.61	0.51
			For Up To 50, Add	1.65	
			For >50 To 200, Add	0.99	
			For >200 To 500, Add	0.41	
			For >2,500 To 4,000, Deduct	-0.17	
			For >4,000 To 5,000, Deduct	-0.33	
			For >5,000, Deduct	-0.54	
			For Individual Room Quantities <495, Add	0.99	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.74	
			For Ceilings >10' High, Add	0.12	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0079 SF 2' x 2' x 1" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Calla).....	7.31	0.63
For Up To 50, Add	1.81	
For >50 To 200, Add	1.09	
For >200 To 500, Add	0.45	
For >2,500 To 4,000, Deduct	-0.18	
For >4,000 To 5,000, Deduct	-0.37	
For >5,000, Deduct	-0.59	
For Individual Room Quantities <495, Add	1.09	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.80	
For Ceilings >10' High, Add	0.13	
09 51 13 00-0080 SF 2' x 4' x 1" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Calla).....	7.31	0.63
For Up To 50, Add	1.81	
For >50 To 200, Add	1.09	
For >200 To 500, Add	0.45	
For >2,500 To 4,000, Deduct	-0.18	
For >4,000 To 5,000, Deduct	-0.37	
For >5,000, Deduct	-0.59	
For Individual Room Quantities <495, Add	1.09	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.80	
For Ceilings >10' High, Add	0.13	
09 51 13 00-0081 SF 2' x 2' x 1" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Calla) .....	7.31	0.51
For Up To 50, Add	1.81	
For >50 To 200, Add	1.09	
For >200 To 500, Add	0.45	
For >2,500 To 4,000, Deduct	-0.18	
For >4,000 To 5,000, Deduct	-0.37	
For >5,000, Deduct	-0.59	
For Individual Room Quantities <495, Add	1.09	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.80	
For Ceilings >10' High, Add	0.13	
09 51 13 00-0082 SF 2' x 4' x 1" Thick, Beveled Tegular Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Calla) .....	7.31	0.63
For Up To 50, Add	1.81	
For >50 To 200, Add	1.09	
For >200 To 500, Add	0.45	
For >2,500 To 4,000, Deduct	-0.18	
For >4,000 To 5,000, Deduct	-0.37	
For >5,000, Deduct	-0.59	
For Individual Room Quantities <495, Add	1.09	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.80	
For Ceilings >10' High, Add	0.13	
09 51 13 00-0083 SF 20" x 60" x 5/8" Thick, Square Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™ 2617).....	2.73	0.51
For Individual Room Quantities <495, Add	0.60	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0084 SF 20" x 60" x 5/8" Thick, Tapered Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™ 2627).....	2.81	0.51
For Individual Room Quantities <495, Add	0.61	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
09 51 13 00-0085 SF 2' x 4' x 3/4" Tapered Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™ Illusion Basic Two 2742).....	4.11	0.51
For Individual Room Quantities <495, Add	0.74	
Note: For use with projects >500 SF		
For Vertical Application, Add	0.74	
For Ceilings >10' High, Add	0.12	
<b>09 51 13 00-0086 Wood Fiber Panels (09 51 13)</b>		
09 51 13 00-0087 SF 2' x 2' x 1/2" Wood Fiber Acoustical Ceiling Panels.....	6.78	0.76
For Up To 50, Add	1.92	
For >50 To 200, Add	1.13	
For >200 To 500, Add	0.45	
For >2,500 To 4,000, Deduct	-0.17	
For >4,000 To 5,000, Deduct	-0.34	
For >5,000, Deduct	-0.57	
For Individual Room Quantities <495, Add	1.13	
Note: For use with projects >500 SF		
For Ceilings >10' High, Add	0.17	
09 51 13 00-0088 SF 2' x 4' x 1/2" Wood Fiber Acoustical Ceiling Panels.....	6.55	0.76
For Up To 50, Add	1.79	
For >50 To 200, Add	1.06	
For >200 To 500, Add	0.43	
For >2,500 To 4,000, Deduct	-0.16	
For >4,000 To 5,000, Deduct	-0.33	
For >5,000, Deduct	-0.54	
For Individual Room Quantities <495, Add	1.06	
Note: For use with projects >500 SF		
For Ceilings >10' High, Add	0.15	

**09 Finishes****09 50 Ceilings****09 51 Acoustical Ceilings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0089	SF		2' x 2' x 5/8" Wood Fiber Acoustical Ceiling Panels .....	8.80	0.76
			For Up To 50, Add	2.22	
			For >50 To 200, Add	1.33	
			For >200 To 500, Add	0.55	
			For >2,500 To 4,000, Deduct	-0.22	
			For >4,000 To 5,000, Deduct	-0.44	
			For >5,000, Deduct	-0.72	
			For Individual Room Quantities <495, Add	1.33	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.17	
09 51 13 00-0090	SF		2' x 4' x 5/8" Wood Fiber Acoustical Ceiling Panels .....	8.57	0.76
			For Up To 50, Add	2.10	
			For >50 To 200, Add	1.26	
			For >200 To 500, Add	0.53	
			For >2,500 To 4,000, Deduct	-0.21	
			For >4,000 To 5,000, Deduct	-0.43	
			For >5,000, Deduct	-0.69	
			For Individual Room Quantities <495, Add	1.26	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.15	
09 51 13 00-0091	SF		2' x 2' x 3/4" Wood Fiber Acoustical Ceiling Panels .....	10.74	0.76
			For Up To 50, Add	2.52	
			For >50 To 200, Add	1.53	
			For >200 To 500, Add	0.65	
			For >2,500 To 4,000, Deduct	-0.27	
			For >4,000 To 5,000, Deduct	-0.54	
			For >5,000, Deduct	-0.86	
			For Individual Room Quantities <495, Add	1.53	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.17	
09 51 13 00-0092	SF		2' x 4' x 3/4" Wood Fiber Acoustical Ceiling Panels .....	10.51	0.76
			For Up To 50, Add	2.39	
			For >50 To 200, Add	1.46	
			For >200 To 500, Add	0.63	
			For >2,500 To 4,000, Deduct	-0.26	
			For >4,000 To 5,000, Deduct	-0.53	
			For >5,000, Deduct	-0.84	
			For Individual Room Quantities <495, Add	1.46	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.15	
09 51 13 00-0093	SF		2' x 2' x 1" Wood Fiber Acoustical Ceiling Panels .....	7.96	0.76
			For Up To 50, Add	2.10	
			For >50 To 200, Add	1.25	
			For >200 To 500, Add	0.51	
			For >2,500 To 4,000, Deduct	-0.20	
			For >4,000 To 5,000, Deduct	-0.40	
			For >5,000, Deduct	-0.65	
			For Individual Room Quantities <495, Add	1.25	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.17	
09 51 13 00-0094	SF		2' x 4' x 1" Wood Fiber Acoustical Ceiling Panels .....	7.73	0.76
			For Up To 50, Add	1.97	
			For >50 To 200, Add	1.18	
			For >200 To 500, Add	0.49	
			For >2,500 To 4,000, Deduct	-0.19	
			For >4,000 To 5,000, Deduct	-0.39	
			For >5,000, Deduct	-0.63	
			For Individual Room Quantities <495, Add	1.18	
			Note: For use with projects >500 SF		
			For Ceilings >10' High, Add	0.15	
<b>09 51 13 00-0095</b>			<b>Removal And Reinstallation Of Acoustical Ceiling Panels</b> <small>(09 51 13)</small>		
			Note: 2'x2' Or 2'x4'. Includes storage and cleaning.		
09 51 13 00-0096	SF		Removal And Reinstallation Of Acoustical Panels Only .....	2.60	
			For Up To 50, Add	1.43	
			For >50 To 200, Add	0.78	
			For >200 To 500, Add	0.26	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.26	
			For Ceilings >10' High, Add	0.20	
<b>09 51 23</b>			<b>Acoustical Tile Ceilings</b> <small>(09 51)</small>		
			Note: Includes fastening with staples and/or adhesive.		
<b>09 51 23 00-0001</b>			<b>Mineral Fiber Acoustical Tile Ceilings</b> <small>(09 51 23)</small>		
09 51 23 00-0002	SF		12" x 12" x 1/2" Tongue And Groove Mineral Fiber Acoustical Ceiling Tile .....	6.38	1.40
			For Furring 1 x 3 Strips 12" On Center, Add	0.50	
			For Up To 50, Add	2.23	
			For >50 To 200, Add	1.27	
			For >200 To 500, Add	0.48	
			For >2,500, Deduct	-0.32	
			For Ceilings >10' High, Add	0.24	



		<b>Finishes</b>	<b>09</b>
		Ceilings	09 50
		Acoustical Ceilings	09 51

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 23 00-0003	SF		12" x 12" x 5/8" Spline Mineral Fiber Acoustical Ceiling Tile..... <i>For Furring 1 x 3 Strips 12" On Center, Add</i> <i>For Up To 50, Add</i> <i>For &gt;50 To 200, Add</i> <i>For &gt;200 To 500, Add</i> <i>For &gt;2,500, Deduct</i> <i>For Placing Tiles In Suspended Ceiling System, Deduct</i> <i>For Ceilings &gt;10' High, Add</i>	7.58 0.50 2.41 1.39 0.54 -0.38 -0.50 0.24	1.40
09 51 23 00-0004	SF		12" x 12" x 3/4" Spline Mineral Fiber Acoustical Ceiling Tile..... <i>For Furring 1 x 3 Strips 12" On Center, Add</i> <i>For Up To 50, Add</i> <i>For &gt;50 To 200, Add</i> <i>For &gt;200 To 500, Add</i> <i>For &gt;2,500, Deduct</i> <i>For Placing Tiles In Suspended Ceiling System, Deduct</i> <i>For Ceilings &gt;10' High, Add</i>	8.54 0.50 2.55 1.49 0.59 -0.43 -0.50 0.24	1.40
<b>09 51 23 00-0005 Wood Fiber Acoustical Tile Ceilings (09 51 23)</b>					
09 51 23 00-0006	SF		12" x 12" x 1/2" Staple Flange Wood Fiber Acoustical Ceiling Tile..... <i>For Furring 1 x 3 Strips 12" On Center, Add</i> <i>For Up To 50, Add</i> <i>For &gt;50 To 200, Add</i> <i>For &gt;200 To 500, Add</i> <i>For &gt;2,500, Deduct</i> <i>For Ceilings &gt;10' High, Add</i>	5.88 0.50 2.15 1.22 0.45 -0.29 0.24	1.40
<b>09 51 33 Acoustical Metal Pan Ceilings (09 51)</b>					
<b>09 51 33 13 Acoustical Snap-in Metal Pan Ceilings (09 51 33)</b>					
<b>09 51 33 13-0001 Galvanized Steel, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)</b>					
09 51 33 13-0002	SF		24" x 24", Unperforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™).....	23.26	1.11
09 51 33 13-0003	SF		24" x 24", Perforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™).....	24.89	1.11
<b>09 51 33 13-0004 Aluminum, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)</b>					
09 51 33 13-0005	SF		24" x 24", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	17.34	1.27
09 51 33 13-0006	SF		24" x 24", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	29.43	1.27
09 51 33 13-0007	SF		24" x 24", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	57.62	1.27
09 51 33 13-0008	SF		24" x 24", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	26.09	1.27
09 51 33 13-0009	SF		24" x 24", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	18.31	1.27
09 51 33 13-0010	SF		24" x 24", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	28.68	1.27
09 51 33 13-0011	SF		24" x 24", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	57.19	1.27
09 51 33 13-0012	SF		24" x 24", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.87	1.27
09 51 33 13-0013	SF		30" x 30", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	23.60	1.27
09 51 33 13-0014	SF		30" x 30", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	31.05	1.27
09 51 33 13-0015	SF		30" x 30", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	63.56	1.27
09 51 33 13-0016	SF		30" x 30", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	30.73	1.27
09 51 33 13-0017	SF		30" x 30", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.01	1.27
09 51 33 13-0018	SF		30" x 30", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	31.81	1.27
09 51 33 13-0019	SF		30" x 30", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	65.72	1.27
09 51 33 13-0020	SF		30" x 30", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	31.49	1.27
09 51 33 13-0021	SF		12" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	21.33	1.27
09 51 33 13-0022	SF		12" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	34.94	1.27
09 51 33 13-0023	SF		12" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	62.16	1.27
09 51 33 13-0024	SF		12" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	29.97	1.27
09 51 33 13-0025	SF		12" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	22.95	1.27
09 51 33 13-0026	SF		12" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	35.37	1.27



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 33	13-0027	SF	12" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	64.43	1.27
09 51 33	13-0028	SF	12" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	30.95	1.27
09 51 33	13-0029	SF	24" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	16.88	1.27
09 51 33	13-0030	SF	24" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.96	1.27
09 51 33	13-0031	SF	24" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	54.04	1.27
09 51 33	13-0032	SF	24" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	24.66	1.27
09 51 33	13-0033	SF	24" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	17.96	1.27
09 51 33	13-0034	SF	24" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	25.74	1.27
09 51 33	13-0035	SF	24" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	54.15	1.27
09 51 33	13-0036	SF	24" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™).....	24.66	1.27

### 09 51 33 23 Acoustical Lay-in Metal Pan Ceilings (09 51 33)

#### 09 51 33 23-0001 Acoustical Lay-In Metal Pan Ceilings (09 51 33 23)

#### 09 51 33 23-0002 Aluminum, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)

09 51 33 23-0003	SF	24" x 24", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	18.10	0.96
		<i>For Walls &gt;10' High, Add</i>	3.62	
09 51 33 23-0004	SF	24" x 24", Unperforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	20.53	0.96
		<i>For Walls &gt;10' High, Add</i>	4.11	
09 51 33 23-0005	SF	24" x 24", Unperforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	30.25	0.96
		<i>For Walls &gt;10' High, Add</i>	6.05	
09 51 33 23-0006	SF	24" x 24", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	25.66	0.96
		<i>For Walls &gt;10' High, Add</i>	5.13	
09 51 33 23-0007	SF	24" x 24", Perforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	27.55	0.96
		<i>For Walls &gt;10' High, Add</i>	5.51	
09 51 33 23-0008	SF	24" x 24", Perforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	43.48	0.96
		<i>For Walls &gt;10' High, Add</i>	8.70	
09 51 33 23-0009	SF	30" x 30", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	27.13	0.96
		<i>For Walls &gt;10' High, Add</i>	5.43	
09 51 33 23-0010	SF	30" x 30", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	33.70	0.96
		<i>For Walls &gt;10' High, Add</i>	6.74	
09 51 33 23-0011	SF	48" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	27.28	0.96
		<i>For Walls &gt;10' High, Add</i>	5.46	
09 51 33 23-0012	SF	48" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	33.90	0.96
		<i>For Walls &gt;10' High, Add</i>	6.78	
09 51 33 23-0013	SF	12" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	27.42	0.96
		<i>For Walls &gt;10' High, Add</i>	5.48	
09 51 33 23-0014	SF	12" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	33.76	0.96
		<i>For Walls &gt;10' High, Add</i>	6.75	
09 51 33 23-0015	SF	24" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	27.42	0.96
		<i>For Walls &gt;10' High, Add</i>	5.48	
09 51 33 23-0016	SF	24" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™).....	34.03	0.96
		<i>For Walls &gt;10' High, Add</i>	6.81	

#### 09 51 33 23-0017 Steel, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)

09 51 33 23-0018	SF	24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	23.42	0.96
		<i>For Walls &gt;10' High, Add</i>	4.68	
09 51 33 23-0019	SF	24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	27.95	0.96
		<i>For Walls &gt;10' High, Add</i>	5.59	
09 51 33 23-0020	SF	24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	30.00	0.96
		<i>For Walls &gt;10' High, Add</i>	6.00	
09 51 33 23-0021	SF	24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	28.17	0.96
		<i>For Walls &gt;10' High, Add</i>	5.63	
09 51 33 23-0022	SF	24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	28.92	0.96
		<i>For Walls &gt;10' High, Add</i>	5.78	
09 51 33 23-0023	SF	24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®).....	30.65	0.96
		<i>For Walls &gt;10' High, Add</i>	6.13	

### 09 51 33 33 Acoustical Tegular Lay-in Metal Pan Ceilings (09 51 33)

#### 09 51 33 33-0001 Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33)

#### 09 51 33 33-0002 Steel, Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33-0001)

09 51 33 33-0003	SF	24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	17.04	0.96
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<b>Finishes</b>	<b>09</b>	<b>09</b>
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 33 33-0004	SF		24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	19.20	0.96
09 51 33 33-0005	SF		24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	27.20	0.96
09 51 33 33-0006	SF		24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	19.42	0.96
09 51 33 33-0007	SF		24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	22.01	0.96
09 51 33 33-0008	SF		24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™).....	29.68	0.96

**09 53 Acoustical Ceiling Suspension Assemblies** (09 50)

**09 53 23 Metal Acoustical Ceiling Suspension Assemblies** (09 53)

**09 53 23 00-0001 Ceiling Suspension Systems** (09 53 23)

Note: Hot-dipped galvanized steel. Includes single 8 gauge wire hangers (between 3' To 4') attached from wood deck or wood members above to main members 4' on center. Includes all main tees, cross tees, wall angle, wall anchors, connector clips, hold down clips, double faced tape (where required). All above shall be mechanically installed by minimum 2-1/4" x 3/8" wedge anchors. Excludes chain supports for lights.

09 53 23 00-0002	SF		1' x 1' Grid, Concealed, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System .....	5.13	0.63
			Note: Excludes ceiling tile.		
			For Fastening To Concrete, Add	1.50	
			For Fastening To Steel, Add	1.66	
			For Vertical Application, Add	2.42	
			For Individual Room Quantities <495, Add	0.53	
			Note: For use with projects >500 SF		
			For Up To 50, Add	1.87	
			For >50 To 200, Add	1.07	
			For >200 To 500, Add	0.39	
			For >2,500 To 4,000, Deduct	-0.12	
			For >4,000 To 5,000, Deduct	-0.21	
			For >5,000, Deduct	-0.30	
			For Ceilings >10' High, Add	0.21	
09 53 23 00-0003	SF		1' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	4.13	0.63
			For UL Listed (Fire Guard), Add	0.27	
			For 1-1/2" Wide Faced Grid, Add	0.51	
			For Fastening To Concrete, Add	1.45	
			For Fastening To Steel, Add	1.61	
			For Vertical Application, Add	2.02	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For Individual Room Quantities <495, Add	0.44	
			Note: For use with projects >500 SF		
			For Aluminum T-Bar System, Add	0.82	
			For Up To 50, Add	1.54	
			For >50 To 200, Add	0.88	
			For >200 To 500, Add	0.32	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.17	
			For >5,000, Deduct	-0.25	
			For Ceilings >10' High, Add	0.17	
09 53 23 00-0004	SF		2' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	3.45	0.63
			For UL Listed (Fire Guard), Add	0.20	
			For 1-1/2" Wide Faced Grid, Add	0.37	
			For Fastening To Concrete, Add	1.43	
			For Fastening To Steel, Add	1.59	
			For Vertical Application, Add	1.86	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For Individual Room Quantities <495, Add	0.38	
			Note: For use with projects >500 SF		
			For Aluminum T-Bar System, Add	0.60	
			For Up To 50, Add	1.37	
			For >50 To 200, Add	0.77	
			For >200 To 500, Add	0.28	
			For >2,500 To 4,000, Deduct	-0.08	
			For >4,000 To 5,000, Deduct	-0.15	
			For >5,000, Deduct	-0.21	
			For Black Grid, Add	0.17	
			For Ceilings >10' High, Add	0.16	
			For Concealed Spline Grid, Add	0.54	

**09 Finishes****09 50 Ceilings****09 53 Acoustical Ceiling Suspension Assemblies**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0005	SF		2' x 4' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	2.86	0.63
			<i>For UL Listed (Fire Guard), Add</i>	0.16	
			<i>For 1-1/2" Wide Faced Grid, Add</i>	0.30	
			<i>For Fastening To Concrete, Add</i>	1.40	
			<i>For Fastening To Steel, Add</i>	1.56	
			<i>For Vertical Application, Add</i>	1.78	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.32	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Aluminum T-Bar System, Add</i>	0.49	
			<i>For Up To 50, Add</i>	1.14	
			<i>For &gt;50 To 200, Add</i>	0.64	
			<i>For &gt;200 To 500, Add</i>	0.23	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.07	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.12	
			<i>For &gt;5,000, Deduct</i>	-0.18	
			<i>For Black Grid, Add</i>	0.14	
			<i>For Ceilings &gt;10' High, Add</i>	0.13	
			<i>For Concealed Spline Grid, Add</i>	0.45	
09 53 23 00-0006	SF		1'-8" To 2' x 5' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System .....	2.52	0.63
			<i>For UL Listed (Fire Guard), Add</i>	0.15	
			<i>For 1-1/2" Wide Faced Grid, Add</i>	0.28	
			<i>For Fastening To Concrete, Add</i>	1.37	
			<i>For Fastening To Steel, Add</i>	1.53	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.28	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Aluminum T-Bar System, Add</i>	0.45	
			<i>For Up To 50, Add</i>	0.99	
			<i>For &gt;50 To 200, Add</i>	0.56	
			<i>For &gt;200 To 500, Add</i>	0.20	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.06	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.11	
			<i>For &gt;5,000, Deduct</i>	-0.15	
			<i>For Ceilings &gt;10' High, Add</i>	0.11	
09 53 23 00-0007	SF		2' x 2' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System.....	3.73	0.63
			<i>For UL Listed (Fire Guard), Add</i>	0.24	
			<i>For Fastening To Concrete, Add</i>	1.43	
			<i>For Fastening To Steel, Add</i>	1.59	
			<i>For Vertical Application, Add</i>	1.86	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.40	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Up To 50, Add</i>	1.41	
			<i>For &gt;50 To 200, Add</i>	0.80	
			<i>For &gt;200 To 500, Add</i>	0.29	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.09	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.15	
			<i>For &gt;5,000, Deduct</i>	-0.22	
			<i>For Black Grid, Add</i>	0.20	
			<i>For Ceilings &gt;10' High, Add</i>	0.16	
09 53 23 00-0008	SF		2' x 4' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System.....	3.08	0.63
			<i>For UL Listed (Fire Guard), Add</i>	0.20	
			<i>For Fastening To Concrete, Add</i>	1.40	
			<i>For Fastening To Steel, Add</i>	1.56	
			<i>For Vertical Application, Add</i>	1.78	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities &lt;495, Add</i>	0.33	
			<i>Note: For use with projects &gt;500 SF</i>		
			<i>For Up To 50, Add</i>	1.17	
			<i>For &gt;50 To 200, Add</i>	0.66	
			<i>For &gt;200 To 500, Add</i>	0.24	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.07	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.13	
			<i>For &gt;5,000, Deduct</i>	-0.19	
			<i>For Black Grid, Add</i>	0.16	
			<i>For Ceilings &gt;10' High, Add</i>	0.13	
<b>09 53 23 00-0009</b>			<b>Ceiling Suspension System Accessories (09 53 23)</b>		
09 53 23 00-0010	LF		Pencil Rod Support For Suspended Ceiling with Accessories .....	1.53	
09 53 23 00-0011	LF		1" x 1/8" Flat Bar Bracing For Suspended Ceiling .....	3.71	1.78
			<i>For 304 Stainless Steel, Add</i>	2.96	
			<i>For 316 Stainless Steel, Add</i>	3.33	
			<i>For Aluminum, Add</i>	0.19	
			<i>For Galvanized Steel, Add</i>	0.64	
09 53 23 00-0012	LF		1" x 3/16" Flat Bar Bracing For Suspended Ceiling.....	5.29	1.90
			<i>For 304 Stainless Steel, Add</i>	4.50	
			<i>For 316 Stainless Steel, Add</i>	5.06	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.98	
09 53 23 00-0013	LF		1-1/2" x 1/4" Flat Bar Bracing For Suspended Ceiling .....	7.35	2.03
			<i>For 304 Stainless Steel, Add</i>	9.01	
			<i>For 316 Stainless Steel, Add</i>	10.11	
			<i>For Aluminum, Add</i>	0.57	
			<i>For Galvanized Steel, Add</i>	1.96	



<b>Finishes</b>	<b>09</b>	<b>09</b>
<b>Ceilings</b>	<b>09 50</b>	
<b>Acoustical Ceiling Suspension Assemblies</b>	<b>09 53</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0014	EA		2', Exposed 15/16" Hot-dipped Galvanized Steel, Suspended Ceiling Cross Tee .....7.96 Note: Can be used to convert an existing 2' x 4' suspension system to a 2' x 2' system or to replace an individual component.		0.37
09 53 23 00-0015	EA		Lateral Support For Suspended Ceiling Channel, Installed 12'-0" On Center Maximum .....34.55 Note: Includes vertical center strut and four 12 gauge diagonal wires.		9.48
09 53 23 00-0016	EA		Up To 30" Compression Posts, Telescopic, With Splay Wires, Attached To Structure For Suspended Ceiling .....80.32		25.82
09 53 23 00-0017	EA		>30" To 48" Compression Posts, Telescopic, With Splay Wires, Attached To Structure For Suspended Ceiling .....83.15		26.31
09 53 23 00-0018	EA		>48" To 84" Compression Posts, Telescopic, With Splay Wires, Attached To Structure For Suspended Ceiling .....92.67		26.31
<b>09 53 23 00-0019</b>			<b>Removal And Reinstallation Of Acoustical Ceiling Suspension Assembly</b> (09 53) <sup>23)</sup> Note: 2'x2' Or 2'x4'. Includes storage and cleaning.		
09 53 23 00-0020	SF		Removal And Reinstallation Of 2' x 2' Or 2' x 4' Acoustical Ceiling Tile And Grid Assembly .....3.50 Note: Suspension system tie wire, wall angles and bracing to remain in place.		
			<i>For Up To 50, Add</i>	1.93	
			<i>For &gt;50 To 200, Add</i>	1.05	
			<i>For &gt;200 To 500, Add</i>	0.35	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.09	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.18	
			<i>For &gt;5,000, Deduct</i>	-0.26	
			<i>For Ceilings &gt;10' High, Add</i>	0.26	
09 53 23 00-0021	SF		Removal And Reinstallation Of Grid System Assembly .....1.53 Note: Suspension system tie wire, wall angles and bracing to remain in place. Excludes ceiling tiles.		
			<i>For Up To 50, Add</i>	0.84	
			<i>For &gt;50 To 200, Add</i>	0.46	
			<i>For &gt;200 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 4,000, Deduct</i>	-0.04	
			<i>For &gt;4,000 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000, Deduct</i>	-0.11	
			<i>For Ceilings &gt;10' High, Add</i>	0.11	
<b>09 54</b>			<b>Specialty Ceilings</b> (09 50)		
<b>09 54 16</b>			<b>Luminous Ceilings</b> (09 54)		
<b>09 54 16 00-0001</b>			<b>Translucent Ceiling Panels</b> (09 54 16)		
09 54 16 00-0002	SF		2' x 2' x 0.013" Thick, Rigid Vinyl Plastic, Translucent Ceiling Panel .....3.31 <i>For Ceilings &gt;10' High, Add</i>	0.11	0.63
			<i>For &gt;100 To 200, Deduct</i>	-0.13	
			<i>For &gt;200 To 300, Deduct</i>	-0.35	
			<i>For &gt;300, Deduct</i>	-0.61	
<b>09 54 23</b>			<b>Linear Metal Ceilings</b> (09 54)		
<b>09 54 23 00-0001</b>			<b>Linear Ceiling Systems</b> (09 54 23)		
<b>09 54 23 00-0002</b>			<b>0.032" Aluminum, Linear Ceiling Systems</b> (09 54 23 00-0001) Note: For flat ceilings. Includes round or box style panels with KYNAR 500® or HYLAR 5000® PVDF finish. Includes ceiling suspension system and flush or recessed filler strips.		
09 54 23 00-0003	SF		4" Panel Width, 0.032" Aluminum, Linear Ceiling System .....23.35 <i>For Up To 50, Add</i>	6.13	2.75
			<i>For &gt;50 To 200, Add</i>	3.65	
			<i>For &gt;200 To 500, Add</i>	1.50	
			<i>For &gt;2,500, Deduct</i>	-1.17	
			<i>For Ceilings &gt;10' High, Add</i>	0.49	
			<i>For Linear Ceiling Systems Without Filler Strips, Deduct</i>	-4.15	
			<i>For Curved Ceilings, Add</i>	1.54	
09 54 23 00-0004	SF		8" Panel Width, 0.032" Aluminum, Linear Ceiling System .....18.91 <i>For Up To 50, Add</i>	5.41	2.75
			<i>For &gt;50 To 200, Add</i>	3.18	
			<i>For &gt;200 To 500, Add</i>	1.27	
			<i>For &gt;2,500, Deduct</i>	-0.95	
			<i>For Ceilings &gt;10' High, Add</i>	0.48	
			<i>For Linear Ceiling Systems Without Filler Strips, Deduct</i>	-2.08	
			<i>For Curved Ceilings, Add</i>	1.51	
09 54 23 00-0005	SF		12" Panel Width, 0.032" Aluminum, Linear Ceiling System .....17.19 <i>For Up To 50, Add</i>	5.10	2.75
			<i>For &gt;50 To 200, Add</i>	2.98	
			<i>For &gt;200 To 500, Add</i>	1.18	
			<i>For &gt;2,500, Deduct</i>	-0.86	
			<i>For Ceilings &gt;10' High, Add</i>	0.47	
			<i>For Linear Ceiling Systems Without Filler Strips, Deduct</i>	-1.37	
			<i>For Curved Ceilings, Add</i>	1.48	
<b>09 54 23 00-0006</b>			<b>Tin Ceilings</b> (09 54 23)		
09 54 23 00-0007	SF		2' x 2' Tin Ceiling Embossed Panels .....22.52 <i>For Up To 50, Add</i>	5.43	4.25
			<i>For &gt;50 To 200, Add</i>	3.28	
			<i>For &gt;200 To 500, Add</i>	1.38	
			<i>For &gt;2,500, Deduct</i>	-1.13	
			<i>For Ceilings &gt;10' High, Add</i>	0.38	

**09 Finishes****09 50 Ceilings****09 54 Specialty Ceilings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 54 23 00-0008	SF		12" x 12" Tin Ceiling Embossed Plates.....	33.13	2.75
			<i>For Up To 50, Add</i>	7.13	
			<i>For &gt;50 To 200, Add</i>	4.40	
			<i>For &gt;200 To 500, Add</i>	1.93	
			<i>For &gt;2,500, Deduct</i>	-1.66	
			<i>For Ceilings &gt;10' High, Add</i>	0.41	
09 54 23 00-0009	SF		12" x 24" Tin Ceiling Embossed Plates.....	24.31	2.75
			<i>For Up To 50, Add</i>	5.81	
			<i>For &gt;50 To 200, Add</i>	3.51	
			<i>For &gt;200 To 500, Add</i>	1.49	
			<i>For &gt;2,500, Deduct</i>	-1.22	
			<i>For Ceilings &gt;10' High, Add</i>	0.41	
09 54 23 00-0010	SF		24" x 24" Tin Ceiling Embossed Plates.....	22.33	2.75
			<i>For Up To 50, Add</i>	5.35	
			<i>For &gt;50 To 200, Add</i>	3.23	
			<i>For &gt;200 To 500, Add</i>	1.37	
			<i>For &gt;2,500, Deduct</i>	-1.12	
			<i>For Ceilings &gt;10' High, Add</i>	0.37	
09 54 23 00-0011	SF		24" x 48" Tin Ceiling Embossed Plates.....	19.48	2.05
			<i>For Up To 50, Add</i>	4.67	
			<i>For &gt;50 To 200, Add</i>	2.82	
			<i>For &gt;200 To 500, Add</i>	1.19	
			<i>For &gt;2,500, Deduct</i>	-0.97	
			<i>For Ceilings &gt;10' High, Add</i>	0.33	
09 54 23 00-0012	LF		3" Or 4" Wide Embossed Molding.....	15.67	4.12
			<i>For Ceilings &gt;10' High, Add</i>	0.60	
09 54 23 00-0013	LF		6" Wide Embossed Molding.....	19.51	4.80
			<i>For Ceilings &gt;10' High, Add</i>	0.67	
09 54 23 00-0014	LF		12" Wide Embossed Molding.....	26.11	5.63
			<i>For Ceilings &gt;10' High, Add</i>	0.84	
09 54 23 00-0015	EA		3", 4" Or 6" Wide Embossed Cross, Tee Or Ell.....	45.59	13.03
			<i>For Ceilings &gt;10' High, Add</i>	1.91	
09 54 23 00-0016	EA		12" Wide Embossed Cross, Tee Or Ell.....	62.80	15.23
			<i>For Ceilings &gt;10' High, Add</i>	2.29	

**09 57 Special Function Ceilings** (09 50)**09 57 63 High Impact Ceilings** (09 57)**09 57 63 00-0001 High Impact Ceilings** (09 57 63)

09 57 63 00-0002	SF		Polyvinyl Chloride Face High Impact Ceiling Panels.....	14.85	1.27
			<i>For Ceilings &gt;10' High, Add</i>	0.15	
09 57 63 00-0003	EA		High Impact Clips.....	6.51	1.02
			<i>For Ceilings &gt;10' High, Add</i>	0.24	

**09 60 Flooring** (09)

Note: Perform moisture testing as recommended by manufacturer.

**09 61 Flooring Treatment** (09 60)**09 61 13 Slip-Resistant Flooring Treatment** (09 61)**09 61 13 00-0001 Anti-Slip Tape** (09 61 13)

Note: Grit sandpaper surface with adhesive back.

09 61 13 00-0002	LF		1" Anti-Slip Tape.....	3.31	2.54
09 61 13 00-0003	LF		2" Anti-Slip Tape.....	4.16	2.80
09 61 13 00-0004	LF		3" Anti-Slip Tape.....	5.00	3.08
09 61 13 00-0005	LF		4" Anti-Slip Tape.....	5.79	3.38
09 61 13 00-0006	LF		6" Anti-Slip Tape.....	7.35	3.72
09 61 13 00-0007	LF		12" Anti-Slip Tape.....	12.79	5.57
09 61 13 00-0008	LF		24" Anti-Slip Tape.....	18.14	8.37

**09 63 Masonry Flooring** (09 60)**09 63 13 Brick Flooring** (09 63)**09 63 13 00-0001 Clay Bricks** (09 63 13)

09 63 13 00-0002	SF		2-1/4" Thick Clay Brick Floor.....	31.14	10.36
			<i>For Basket Weave Pattern, Add</i>	2.22	
			<i>For Herringbone Pattern, Add</i>	2.95	
			<i>For Epoxy Joints, Add</i>	5.41	
09 63 13 00-0003	SF		3" Thick Clay Brick Floor.....	35.21	10.36
			<i>For Basket Weave Pattern, Add</i>	2.22	
			<i>For Herringbone Pattern, Add</i>	2.95	
			<i>For Epoxy Joints, Add</i>	5.41	
09 63 13 00-0004	SF		1/2" Thick Unglazed Clay Brick Floor.....	19.69	10.36
			<i>For Basket Weave Pattern, Add</i>	2.21	
			<i>For Herringbone Pattern, Add</i>	2.95	
			<i>For Epoxy Joints, Add</i>	5.41	



		<b>Finishes</b>	<b>09</b>
		Flooring	09 60
		Masonry Flooring	09 63

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 63 13 00-0005	SF		1/2" Thick Glazed Clay Brick Floor ..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	23.37 2.21 2.95 5.41	10.36
09 63 13 00-0006	SF		3/4" Thick Unglazed Clay Brick Floor..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	21.34 2.21 2.95 5.41	10.36
09 63 13 00-0007	SF		3/4" Thick Glazed Clay Brick Floor ..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	26.23 2.21 2.95 5.41	10.36
09 63 13 00-0008	SF		15/16" Thick Unglazed Clay Brick Floor..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	22.93 2.21 2.95 5.41	10.36
09 63 13 00-0009	SF		15/16" Thick Glazed Clay Brick Floor ..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	29.13 2.21 2.95 5.41	10.36
<b>09 63 43 Composition Stone Flooring (09 63)</b>					
09 63 43 00-0001			Cupric Oxychloride Cement, Seamless Flooring System (09 63 43) Note: Chemical and slip resistant. OSHA and USDA approved.		
09 63 43 00-0002	SF		3/8" Thick, Cupric Oxychloride Cement, Seamless Flooring System, Trowel Applied .....	19.26	6.10
<b>09 64 Wood Flooring (09 60)</b>					
<b>09 64 13 Wood Flooring Underlayment (09 64)</b>					
09 64 13 00-0001			Wood Flooring Underlayment (09 64 13)		
09 64 13 00-0002	SF		Regular Weight Red Rosin Paper, Wood Flooring Underlayment .....	0.55	
09 64 13 00-0003	SF		Heavy Weight Red Rosin Paper, Wood Flooring Underlayment.....	0.57	
09 64 13 00-0004	SF		30 LB, Waxed Paper, Wood Flooring Underlayment .....	0.59	
09 64 13 00-0005	SF		15 LB, Asphalt Saturated Organic Felt, Wood Flooring Underlayment.....	0.65	
09 64 13 00-0006	SF		6 Mil Thick, Polyethylene Film, Wood Flooring Underlayment.....	0.59	
09 64 13 00-0007	SF		8 Mil Thick, Polyethylene Film, Wood Flooring Underlayment.....	0.65	
09 64 13 00-0008	SF		1/8" Thick, Natural Cork, Wood Flooring Underlayment .....	2.46	0.38
09 64 13 00-0009	SF		1/4" Thick, Natural Cork, Wood Flooring Underlayment .....	2.56	0.38
09 64 13 00-0010	SF		3/32" Thick, Polyethylene Foam, Wood Flooring Underlayment (Roberts® Unison™ 70-025-15) .....	0.94	
09 64 13 00-0011	SF		2.0mm Thick, Progressive Foam Technology, Wood Flooring Underlayment (Roberts® Quiet Cushion 70-180) .....	1.16	
09 64 13 00-0012	SF		4.0mm Thick, Compressed Fiber, Wood Flooring Underlayment (Roberts® Super Felt 70-193) .....	1.24	
09 64 13 00-0013	SF		2.5mm Thick, Closed Cell Foam, Wood Flooring Underlayment (Roberts® Black Jack™ 70-026) .....	1.50	
09 64 13 00-0014	SF		1/8" Thick, Moisture Barrier, Sound Reduction And Cushioning, Wood Flooring Underlayment (Roberts® AirGuard™ 70-105) .....	1.52	0.25
<b>09 64 23 Wood Parquet Flooring (09 64)</b>					
Note: All wood parquet flooring is prefinished at factory.					
09 64 23 00-0001			Hardwood Parquet Flooring (09 64 23)		
09 64 23 00-0002	SF		5/16" Thick Oak Parquet Flooring..... <i>For Up To 20, Add</i> <i>For &gt;20 To 50, Add</i> <i>For &gt;50 To 100, Add</i> <i>For &gt;100 To 300, Add</i>	12.48 5.45 2.84 1.42 0.71	1.27
<b>09 64 29 Wood Strip and Plank Flooring (09 64)</b>					
Note: All wood strip flooring is unfinished, tongue and groove.					
09 64 29 00-0001			Unfinished Fir, Wood Strip Flooring (09 64 29)		
09 64 29 00-0002	SF		3-1/8" Plank Width, 3/4" Thick, Plain Sawn, Clear Vertical Grain (C Or Better) Unfinished Fir, Wood Strip Flooring .....	14.43	1.27
			<i>For Factory Finish, Add</i>	0.87	
			<i>For Random Width Floor, Add</i>	3.32	
			<i>For Up To 20, Add</i>	4.73	
			<i>For &gt;20 To 50, Add</i>	2.59	
			<i>For &gt;50 To 100, Add</i>	1.29	
			<i>For &gt;100 To 300, Add</i>	0.65	
09 64 29 00-0003			Unfinished Oak, Wood Strip Flooring (09 64 29)		
09 64 29 00-0004			Unfinished White Oak, Wood Strip Flooring (09 64 29 00-0003)		
09 64 29 00-0005	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished White Oak, Wood Strip Flooring .....	12.02	1.27
			<i>For Factory Finish, Add</i>	0.46	
			<i>For Random Width Floor, Add</i>	2.63	
			<i>For Up To 20, Add</i>	5.16	
			<i>For &gt;20 To 50, Add</i>	2.70	
			<i>For &gt;50 To 100, Add</i>	1.35	
			<i>For &gt;100 To 300, Add</i>	0.67	

**09 Finishes**  
**09 60 Flooring**  
**09 64 Wood Flooring**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 64 29 00-0006	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished White Oak, Wood Strip Flooring .....	12.61	1.27
			<i>For Factory Finish, Add</i>	0.51	
			<i>For Random Width Floor, Add</i>	2.78	
			<i>For Up To 20, Add</i>	5.25	
			<i>For &gt;20 To 50, Add</i>	2.76	
			<i>For &gt;50 To 100, Add</i>	1.38	
			<i>For &gt;100 To 300, Add</i>	0.69	
09 64 29 00-0007	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished White Oak, Wood Strip Flooring.....	13.50	1.27
			<i>For Factory Finish, Add</i>	0.60	
			<i>For Random Width Floor, Add</i>	3.00	
			<i>For Up To 20, Add</i>	5.39	
			<i>For &gt;20 To 50, Add</i>	2.84	
			<i>For &gt;50 To 100, Add</i>	1.42	
			<i>For &gt;100 To 300, Add</i>	0.71	
09 64 29 00-0008	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished White Oak, Wood Strip Flooring .....	10.46	1.27
			<i>For Factory Finish, Add</i>	0.48	
			<i>For Random Width Floor, Add</i>	2.33	
			<i>For Up To 20, Add</i>	4.14	
			<i>For &gt;20 To 50, Add</i>	2.19	
			<i>For &gt;50 To 100, Add</i>	1.09	
			<i>For &gt;100 To 300, Add</i>	0.55	
09 64 29 00-0009	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished White Oak, Wood Strip Flooring .....	10.93	1.27
			<i>For Factory Finish, Add</i>	0.52	
			<i>For Random Width Floor, Add</i>	2.45	
			<i>For Up To 20, Add</i>	4.21	
			<i>For &gt;20 To 50, Add</i>	2.24	
			<i>For &gt;50 To 100, Add</i>	1.12	
			<i>For &gt;100 To 300, Add</i>	0.56	
09 64 29 00-0010	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished White Oak, Wood Strip Flooring.....	11.84	1.27
			<i>For Factory Finish, Add</i>	0.61	
			<i>For Random Width Floor, Add</i>	2.67	
			<i>For Up To 20, Add</i>	4.35	
			<i>For &gt;20 To 50, Add</i>	2.33	
			<i>For &gt;50 To 100, Add</i>	1.16	
			<i>For &gt;100 To 300, Add</i>	0.58	
<b>09 64 29 00-0011</b>			<b>Unfinished Red Oak, Wood Strip Flooring (09 64 29 00-0003)</b>		
09 64 29 00-0012	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished Red Oak, Wood Strip Flooring.....	12.12	1.27
			<i>For Factory Finish, Add</i>	0.47	
			<i>For Random Width Floor, Add</i>	2.66	
			<i>For Up To 20, Add</i>	5.18	
			<i>For &gt;20 To 50, Add</i>	2.71	
			<i>For &gt;50 To 100, Add</i>	1.35	
			<i>For &gt;100 To 300, Add</i>	0.68	
09 64 29 00-0013	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished Red Oak, Wood Strip Flooring.....	12.71	1.27
			<i>For Factory Finish, Add</i>	0.52	
			<i>For Random Width Floor, Add</i>	2.80	
			<i>For Up To 20, Add</i>	5.27	
			<i>For &gt;20 To 50, Add</i>	2.77	
			<i>For &gt;50 To 100, Add</i>	1.38	
			<i>For &gt;100 To 300, Add</i>	0.69	
09 64 29 00-0014	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished Red Oak, Wood Strip Flooring .....	13.60	1.27
			<i>For Factory Finish, Add</i>	0.61	
			<i>For Random Width Floor, Add</i>	3.03	
			<i>For Up To 20, Add</i>	5.40	
			<i>For &gt;20 To 50, Add</i>	2.85	
			<i>For &gt;50 To 100, Add</i>	1.43	
			<i>For &gt;100 To 300, Add</i>	0.71	
09 64 29 00-0015	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished Red Oak, Wood Strip Flooring.....	10.55	1.27
			<i>For Factory Finish, Add</i>	0.48	
			<i>For Random Width Floor, Add</i>	2.35	
			<i>For Up To 20, Add</i>	4.15	
			<i>For &gt;20 To 50, Add</i>	2.20	
			<i>For &gt;50 To 100, Add</i>	1.10	
			<i>For &gt;100 To 300, Add</i>	0.55	
09 64 29 00-0016	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished Red Oak, Wood Strip Flooring.....	11.15	1.27
			<i>For Factory Finish, Add</i>	0.54	
			<i>For Random Width Floor, Add</i>	2.50	
			<i>For Up To 20, Add</i>	4.24	
			<i>For &gt;20 To 50, Add</i>	2.26	
			<i>For &gt;50 To 100, Add</i>	1.13	
			<i>For &gt;100 To 300, Add</i>	0.56	
09 64 29 00-0017	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished Red Oak, Wood Strip Flooring .....	11.94	1.27
			<i>For Factory Finish, Add</i>	0.62	
			<i>For Random Width Floor, Add</i>	2.70	
			<i>For Up To 20, Add</i>	4.36	
			<i>For &gt;20 To 50, Add</i>	2.34	
			<i>For &gt;50 To 100, Add</i>	1.17	
			<i>For &gt;100 To 300, Add</i>	0.58	
09 64 29 00-0018			Unfinished Maple, Wood Strip Flooring (09 64 29)		
09 64 29 00-0019			25/32" Thick, Unfinished Maple, Wood Strip Flooring (09 64 29 00-0018)		



<b>Finishes</b>	<b>09</b>	<b>09</b>
Flooring	09 60	
Wood Flooring	09 64	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 64 29 00-0020 SF 2-1/4" Plank Width, 25/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring .....	14.29	1.27
For Factory Finish, Add	0.68	
For Random Width Floor, Add	3.20	
For Up To 20, Add	5.51	
For >20 To 50, Add	2.92	
For >50 To 100, Add	1.46	
For >100 To 300, Add	0.73	
09 64 29 00-0021 SF 2-1/4" Plank Width, 25/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring .....	13.30	1.27
For Factory Finish, Add	0.58	
For Random Width Floor, Add	2.95	
For Up To 20, Add	5.36	
For >20 To 50, Add	2.82	
For >50 To 100, Add	1.41	
For >100 To 300, Add	0.71	
09 64 29 00-0022 SF 3" Plank Width, 25/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring .....	12.92	1.27
For Factory Finish, Add	0.72	
For Random Width Floor, Add	2.94	
For Up To 20, Add	4.51	
For >20 To 50, Add	2.43	
For >50 To 100, Add	1.22	
For >100 To 300, Add	0.61	
09 64 29 00-0023 SF 3" Plank Width, 25/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring .....	11.94	1.27
For Factory Finish, Add	0.62	
For Random Width Floor, Add	2.70	
For Up To 20, Add	4.36	
For >20 To 50, Add	2.34	
For >50 To 100, Add	1.17	
For >100 To 300, Add	0.58	
<b>09 64 29 00-0024 33/32" Thick, Unfinished Maple, Wood Strip Flooring (09 64 29 00-0018)</b>		
09 64 29 00-0025 SF 2-1/4" Plank Width, 33/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring .....	16.42	1.27
For Factory Finish, Add	0.90	
For Random Width Floor, Add	3.73	
For Up To 20, Add	5.82	
For >20 To 50, Add	3.14	
For >50 To 100, Add	1.57	
For >100 To 300, Add	0.78	
09 64 29 00-0026 SF 2-1/4" Plank Width, 33/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring .....	15.10	1.27
For Factory Finish, Add	0.76	
For Random Width Floor, Add	3.40	
For Up To 20, Add	5.63	
For >20 To 50, Add	3.00	
For >50 To 100, Add	1.50	
For >100 To 300, Add	0.75	
09 64 29 00-0027 SF 3" Plank Width, 33/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring .....	15.20	1.27
For Factory Finish, Add	0.95	
For Random Width Floor, Add	3.51	
For Up To 20, Add	4.85	
For >20 To 50, Add	2.66	
For >50 To 100, Add	1.33	
For >100 To 300, Add	0.67	
09 64 29 00-0028 SF 3" Plank Width, 33/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring .....	13.87	1.27
For Factory Finish, Add	0.82	
For Random Width Floor, Add	3.18	
For Up To 20, Add	4.65	
For >20 To 50, Add	2.53	
For >50 To 100, Add	1.26	
For >100 To 300, Add	0.63	
<b>09 64 29 00-0029 Prefinished Engineered Wood Flooring (09 64 29)</b>		
Note: Glued or nailed. Excludes underlayment. See CSI section 09 64 13 00-0001 for wood flooring underlayment.		
09 64 29 00-0030 SF 1/2" Thick, Red Oak, Prefinished Engineered Wood Flooring .....	17.59	1.27
For Up To 20, Add	4.88	
For >20 To 50, Add	2.76	
For >50 To 100, Add	1.38	
For >100 To 300, Add	0.69	
09 64 29 00-0031 SF 1/2" Thick, White Oak, Prefinished Engineered Wood Flooring .....	17.59	1.27
For Up To 20, Add	4.88	
For >20 To 50, Add	2.76	
For >50 To 100, Add	1.38	
For >100 To 300, Add	0.69	
09 64 29 00-0032 SF 1/2" Thick, Select Maple, Prefinished Engineered Wood Flooring .....	17.04	1.27
For Up To 20, Add	4.80	
For >20 To 50, Add	2.70	
For >50 To 100, Add	1.35	
For >100 To 300, Add	0.68	

<b>09</b>	<b>09 Finishes</b>
	<b>09 60 Flooring</b>
	<b>09 64 Wood Flooring</b>



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
09 64 29 00-0033	SF	1/2" Thick, Natural Hickory, Prefinished Engineered Wood Flooring .....		17.46	1.27
		<i>For Up To 20, Add</i>		4.86	
		<i>For &gt;20 To 50, Add</i>		2.74	
		<i>For &gt;50 To 100, Add</i>		1.37	
		<i>For &gt;100 To 300, Add</i>		0.69	
<b>09 64 66 Wood Athletic Flooring (09 64)</b>					
Note: 1-1/2" or 2-1/4" widths. Excludes finish.					
09 64 66 00-0001		<b>Wood Gym/Stage/Dance Floors Applied On Existing Subfloor (09 64 66)</b>			
Note: Includes sanding. Excludes concrete repairs to subbase, subflooring, thresholds, and finishing.					
09 64 66 00-0002	SF	25/32" Maple Wood Gym/Stage/Dance Floor .....		16.82	6.35
		<i>For Oak Or Birch, Deduct</i>		-0.20	
		<i>For Pine, Deduct</i>		-0.30	
		<i>For #1 Grade Material, Add</i>		0.50	
09 64 66 00-0003	SF	33/32" Maple Wood Gym/Stage/Dance Floor .....		19.92	6.61
		<i>For Oak Or Birch, Deduct</i>		-0.20	
		<i>For Pine, Deduct</i>		-0.30	
		<i>For #1 Grade Material, Add</i>		0.50	
<b>09 64 66 00-0004 Wood Gym/Stage/Dance Floor Systems (09 64 66)</b>					
Note: Includes sanding. Excludes concrete repairs to subbase, thresholds, and finishing.					
09 64 66 00-0005	SF	Floating 25/32" Maple Wood Gym/Stage/Dance Floor System, Two Layers Of Plywood Panel Subfloor With Resilient Pads (Connor DuraCushion).....		22.35	8.26
Note: Includes 6 mil polyethylene vapor barrier, two layers of 15/32" plywood subfloor and 3/8" resilient pads.					
		<i>For Oak Or Birch, Deduct</i>		-0.20	
		<i>For Pine, Deduct</i>		-0.30	
		<i>For #1 Grade Material, Add</i>		0.50	
09 64 66 00-0006	SF	Floating 25/32" Maple Wood Gym/Stage/Dance Floor System, Two Layers Of Plywood Panel Subfloor With Two Stage Resilient Pads (Connor NeoShok).....		23.54	8.26
Note: Includes 6 mil polyethylene vapor barrier, two layers of 15/32" plywood subfloor and 3/4" hemispherical two stage polyurethane resilient pads.					
		<i>For Oak Or Birch, Deduct</i>		-0.20	
		<i>For Pine, Deduct</i>		-0.30	
		<i>For #1 Grade Material, Add</i>		0.50	
09 64 66 00-0007	SF	Floating 25/32" Maple Wood Gym/Stage/Dance Floor System, One Layer Of Plywood Subfloor With Continuous Steel Channel Encased Sleepers And Resilient Pads (Connor PermaFlex).....		26.04	8.26
Note: Includes 6 mil polyethylene vapor barrier, one layer of 15/32" plywood subfloor, a continuous steel channel encasing a 23/32" fixed sleeper, a 7/16" resilient pad and a 23/32" flex sleeper.					
		<i>For Oak Or Birch, Deduct</i>		-0.20	
		<i>For Pine, Deduct</i>		-0.30	
		<i>For #1 Grade Material, Add</i>		0.50	
09 64 66 00-0008	SF	Fixed Resilient 25/32" Maple Wood Gym/Stage/Dance Floor System, One Layer Of Plywood Panel Subfloor With Resilient Pads (Connor Focus).....		24.89	8.26
Note: Includes 6 mil polyethylene vapor barrier, one layer of 3/4" subfloor, 9/16" resilient pads and concrete anchors and clips.					
		<i>For Oak Or Birch, Deduct</i>		-0.20	
		<i>For Pine, Deduct</i>		-0.30	
		<i>For #1 Grade Material, Add</i>		0.50	
09 64 66 00-0009	SF	Clip And Channel, Fixed 33/32" Maple Wood Gym/Stage/Dance Floor System (Connor PermaLock).....		28.35	8.26
Note: Includes 6 mil polyethylene vapor barrier, one layer of 1/2" impregnated fiberboard with channel grooves for 16 gauge steel anchor channel.					
		<i>For Oak Or Birch, Deduct</i>		-0.20	
		<i>For Pine, Deduct</i>		-0.30	
		<i>For #1 Grade Material, Add</i>		0.50	
<b>09 65 Resilient Flooring (09 60)</b>					
See CSI section 03 54 16 00-0001 for self leveling underlayment for uneven floors.					
<b>09 65 13 Resilient Base and Accessories (09 65)</b>					
<b>09 65 13 13 Resilient Base (09 65 13)</b>					
09 65 13 13-0001		<b>Type TV Thermoplastic Vinyl Wall Base (09 65 13 13)</b>			
Note: Includes inside and outside corners.					
09 65 13 13-0002	LF	2-1/2" High, 1/8" Thick, Type TV Thermoplastic Vinyl Wall Base, All Colors .....		5.26	1.54
		<i>For Up To 20, Add</i>		2.02	
		<i>For &gt;20 To 40, Add</i>		1.14	
		<i>For &gt;40 To 80, Add</i>		0.42	
		<i>For &gt;240 To 960, Deduct</i>		-0.37	
		<i>For &gt;960, Deduct</i>		-0.56	
09 65 13 13-0003	LF	4" High, 1/8" Thick, Type TV Thermoplastic Vinyl Wall Base, All Colors .....		6.09	1.54
		<i>For Up To 20, Add</i>		2.14	
		<i>For &gt;20 To 40, Add</i>		1.22	
		<i>For &gt;40 To 80, Add</i>		0.46	
		<i>For &gt;240 To 960, Deduct</i>		-0.46	
		<i>For &gt;960, Deduct</i>		-0.68	
09 65 13 13-0004	LF	6" High, 1/8" Thick, Type TV Thermoplastic Vinyl Wall Base, All Colors .....		7.87	1.54
		<i>For Up To 20, Add</i>		2.41	
		<i>For &gt;20 To 40, Add</i>		1.40	
		<i>For &gt;40 To 80, Add</i>		0.55	
		<i>For &gt;240 To 960, Deduct</i>		-0.63	
		<i>For &gt;960, Deduct</i>		-0.95	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Flooring	09 60	
Resilient Flooring	09 65	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>09 65 13 13-0005 Type TP Thermoplastic Rubber Wall Base</b> (09 65 13 13)		
Note: Includes inside and outside corners.		
09 65 13 13-0006 LF 2-1/2" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors .....	5.80	1.54
For Up To 20, Add	2.10	
For >20 To 40, Add	1.19	
For >40 To 80, Add	0.44	
For >240 To 960, Deduct	-0.43	
For >960, Deduct	-0.64	
09 65 13 13-0007 LF 4" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors .....	6.42	1.54
For Up To 20, Add	2.19	
For >20 To 40, Add	1.26	
For >40 To 80, Add	0.47	
For >240 To 960, Deduct	-0.49	
For >960, Deduct	-0.73	
09 65 13 13-0008 LF 6" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors .....	8.14	1.54
For Up To 20, Add	2.45	
For >20 To 40, Add	1.43	
For >40 To 80, Add	0.56	
For >240 To 960, Deduct	-0.66	
For >960, Deduct	-0.99	
09 65 13 13-0009 LF 2-1/2" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors .....	10.56	1.54
For Up To 20, Add	2.81	
For >20 To 40, Add	1.67	
For >40 To 80, Add	0.68	
For >240 To 960, Deduct	-0.90	
For >960, Deduct	-1.35	
09 65 13 13-0010 LF 3" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors .....	11.09	1.54
For Up To 20, Add	2.89	
For >20 To 40, Add	1.72	
For >40 To 80, Add	0.71	
For >240 To 960, Deduct	-0.96	
For >960, Deduct	-1.43	
09 65 13 13-0011 LF 4-1/2" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors .....	13.80	1.54
For Up To 20, Add	3.30	
For >20 To 40, Add	1.99	
For >40 To 80, Add	0.84	
For >240 To 960, Deduct	-1.23	
For >960, Deduct	-1.84	
09 65 13 13-0012 LF 6" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors .....	19.18	1.54
For Up To 20, Add	4.11	
For >20 To 40, Add	2.53	
For >40 To 80, Add	1.11	
For >240 To 960, Deduct	-1.76	
For >960, Deduct	-2.65	
<b>09 65 13 13-0013 Type TS Thermoset Vulcanized Rubber Wall Base</b> (09 65 13 13)		
Note: Includes inside and outside corners.		
09 65 13 13-0014 LF 2-1/2" High, 1/8" Thick, Type TS Thermoset Vulcanized Rubber Wall Base, All Colors .....	6.48	1.84
For Up To 20, Add	2.20	
For >20 To 40, Add	1.26	
For >40 To 80, Add	0.48	
For >240 To 960, Deduct	-0.49	
For >960, Deduct	-0.74	
09 65 13 13-0015 LF 4" High, 1/8" Thick, Type TS Thermoset Vulcanized Rubber Wall Base, All Colors .....	6.50	1.54
For Up To 20, Add	2.20	
For >20 To 40, Add	1.26	
For >40 To 80, Add	0.48	
For >240 To 960, Deduct	-0.50	
For >960, Deduct	-0.74	
09 65 13 13-0016 LF 6" High, 1/8" Thick, Type TS Thermoset Vulcanized Rubber Wall Base, All Colors .....	9.63	1.84
For Up To 20, Add	2.92	
For >20 To 40, Add	1.70	
For >40 To 80, Add	0.67	
For >240 To 960, Deduct	-0.78	
For >960, Deduct	-1.17	
<b>09 65 13 23 Resilient Stair Treads and Risers</b> (09 65 13)		
Note: All treads have integral nosing. Abrasive strip modifier includes either 1 or 2 strips running the length of the tread. All colors.		
09 65 13 23-0001 Rubber Stair Treads and Risers (09 65 13 23)		
09 65 13 23-0002 Raised Disc Or Other Patterned Rubber Stair Tread (09 65 13 23-0001)		
09 65 13 23-0003 LF 3/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread .....	17.70	2.45
Note: Raised disc or other pattern.		
For Abrasive Strip, Add	2.75	
For Photo Luminescent Abrasive Strip, Add	3.75	
09 65 13 23-0004 LF 1/4" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread .....	19.02	2.64
Note: Raised disc or other pattern.		
For Abrasive Strip, Add	2.75	
For Photo Luminescent Abrasive Strip, Add	3.75	

**09 Finishes****09 60 Flooring****09 65 Resilient Flooring**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 23-0005 LF 5/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread ..... Note: Raised disc or other pattern. For Abrasive Strip, Add For Photo Luminescent Abrasive Strip, Add	22.82  2.75 3.75	2.82
<b>09 65 13 23-0006 Smooth Surface Rubber Stair Tread</b> (09 65 13 23-0001)		
09 65 13 23-0007 LF 3/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread ..... Note: Smooth surface. For Abrasive Strip, Add For Photo Luminescent Abrasive Strip, Add	16.78  2.75 3.75	2.45
09 65 13 23-0008 LF 1/4" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread ..... Note: Smooth surface. For Abrasive Strip, Add For Photo Luminescent Abrasive Strip, Add	17.64  2.75 3.75	2.64
09 65 13 23-0009 LF 5/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread ..... Note: Smooth surface. For Abrasive Strip, Add For Photo Luminescent Abrasive Strip, Add	21.46  2.75 3.75	2.83
<b>09 65 13 23-0010 Smooth Surface Rubber Stair Riser</b> (09 65 13 23-0001)		
09 65 13 23-0011 LF 1/8" Thick, Smooth Surface Rubber Stair Riser.....	9.79	1.48
<b>09 65 13 23-0012 Smooth, Raised Disc or Other Patterned Rubber Landing Mats</b> (09 65 13 23-0001)		
09 65 13 23-0013 SF 1/8" Thick, Rubber Landing Mats ..... Note: Smooth, raised disc or other patterned surface.	27.85	2.27
09 65 13 23-0014 SF 3/16" Thick, Rubber Landing Mats ..... Note: Smooth, raised disc or other patterned surface.	33.21	2.45
09 65 13 23-0015 SF 7/32" Thick, Rubber Landing Mats ..... Note: Smooth, raised disc or other patterned surface.	35.90	2.76
<b>09 65 13 23-0016 Vinyl Stair Treads and Risers</b> (09 65 13 23)		
<b>09 65 13 23-0017 Ribbed Vinyl Stair Tread</b> (09 65 13 23-0016)		
09 65 13 23-0018 LF 1/8" Thick, 9" To 12-1/2" Deep, Ribbed Vinyl Stair Tread ..... For Abrasive Strip, Add	19.27 2.75	2.23
09 65 13 23-0019 LF 3/16" Thick, 9" To 12-1/2" Deep, Ribbed Vinyl Stair Tread ..... For Abrasive Strip, Add	21.28 2.75	2.45
09 65 13 23-0020 LF 1/4" Thick, 9" To 12-1/2" Deep, Ribbed Vinyl Stair Tread ..... For Abrasive Strip, Add	25.49 2.75	2.65
<b>09 65 13 23-0021 Smooth Surface Vinyl Stair Riser</b> (09 65 13 23-0016)		
09 65 13 23-0022 LF 1/8" Thick, 7" High, Smooth Surface Vinyl Stair Riser .....	10.76	1.48
<b>09 65 13 33 Resilient Accessories</b> (09 65 13)		
<b>09 65 13 33-0001 Flexible Self Leveling Cementitious Underlayments</b> (09 65 13 33)		
09 65 13 33-0002 SF 1/8" Thick, Flexible Self Leveling Cementitious Underlayment With Liquid Latex Modifiers .....	2.13	1.23
09 65 13 33-0003 SF 1/4" Thick, Flexible Self Leveling Cementitious Underlayment With Liquid Latex Modifiers .....	3.22	1.23
<b>09 65 13 33-0004 Concrete Floor Prep</b> (09 65 13 33)		
09 65 13 33-0005 SF Removal Of Glue From Concrete Floor ..... Note: For removal of glue from VCT or carpet placement. Not to be used in conjunction with demolition tasks associated with floor tile installation.	1.54	
<b>09 65 13 36 Resilient Carpet Transitions</b> (09 65 13)		
<b>09 65 13 36-0001 Vinyl Transition Strip</b> (09 65 13 36)		
09 65 13 36-0002 LF Vinyl Transition Strip, Brown Or Black ..... For >240 To 960, Deduct For >960, Deduct	3.02 -0.23 -0.34	1.11
09 65 13 36-0003 LF Vinyl Floor Tile Reducer Strip, Brown Or Black ..... For >240 To 960, Deduct For >960, Deduct	2.71 -0.19 -0.29	1.11
09 65 13 36-0004 LF Vinyl Floor Tile Feature Strip, Brown Or Black ..... For >240 To 960, Deduct For >960, Deduct	2.33 -0.16 -0.23	1.11
09 65 13 36-0005 LF 1/4" To 1/8" Material, Narrow, Vinyl, Slim Line Transition (Johnsonite SLT-XX-A) ..... For Up To 20, Add For >20 To 40, Add For >40 To 80, Add For >240 To 960, Deduct For >960, Deduct	3.66 1.53 0.86 0.31 -0.24 -0.37	1.54
<b>09 65 13 36-0006 Vinyl, Wheeled Traffic Transitions</b> (09 65 13 36)		



		<b>Finishes</b>	<b>09</b>
		Flooring	09 60
		Resilient Flooring	09 65

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 36-0007	LF		1/4" To 1/8" Material x 1-3/4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-A) .....	4.44	1.54
			<i>For Up To 20, Add</i>	1.65	
			<i>For &gt;20 To 40, Add</i>	0.93	
			<i>For &gt;40 To 80, Add</i>	0.34	
			<i>For &gt;240 To 960, Deduct</i>	-0.32	
			<i>For &gt;960, Deduct</i>	-0.48	
09 65 13 36-0008	LF		1/4" To 1/8" Material x 1", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-C) .....	4.44	1.54
			<i>For Up To 20, Add</i>	1.65	
			<i>For &gt;20 To 40, Add</i>	0.93	
			<i>For &gt;40 To 80, Add</i>	0.34	
			<i>For &gt;240 To 960, Deduct</i>	-0.32	
			<i>For &gt;960, Deduct</i>	-0.48	
09 65 13 36-0009	LF		5/16" To 1/16" Or 1/8" Material x 1-5/8", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-D) .....	5.32	1.54
			<i>For Up To 20, Add</i>	1.78	
			<i>For &gt;20 To 40, Add</i>	1.02	
			<i>For &gt;40 To 80, Add</i>	0.39	
			<i>For &gt;240 To 960, Deduct</i>	-0.41	
			<i>For &gt;960, Deduct</i>	-0.61	
09 65 13 36-0010	LF		1/4" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-H) .....	8.45	1.54
			<i>For Up To 20, Add</i>	2.25	
			<i>For &gt;20 To 40, Add</i>	1.34	
			<i>For &gt;40 To 80, Add</i>	0.55	
			<i>For &gt;240 To 960, Deduct</i>	-0.72	
			<i>For &gt;960, Deduct</i>	-1.08	
09 65 13 36-0011	LF		1/4" To 1/8" Material x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-HL) .....	8.47	1.54
			<i>For Up To 20, Add</i>	2.25	
			<i>For &gt;20 To 40, Add</i>	1.34	
			<i>For &gt;40 To 80, Add</i>	0.55	
			<i>For &gt;240 To 960, Deduct</i>	-0.72	
			<i>For &gt;960, Deduct</i>	-1.09	
09 65 13 36-0012	LF		1/4" To 0.08" Or 2 mm Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-HT) .....	5.78	1.54
			<i>For Up To 20, Add</i>	1.85	
			<i>For &gt;20 To 40, Add</i>	1.07	
			<i>For &gt;40 To 80, Add</i>	0.41	
			<i>For &gt;240 To 960, Deduct</i>	-0.46	
			<i>For &gt;960, Deduct</i>	-0.68	
09 65 13 36-0013	LF		1/4" Material To Floor x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-J) .....	8.25	1.54
			<i>For Up To 20, Add</i>	2.22	
			<i>For &gt;20 To 40, Add</i>	1.32	
			<i>For &gt;40 To 80, Add</i>	0.54	
			<i>For &gt;240 To 960, Deduct</i>	-0.70	
			<i>For &gt;960, Deduct</i>	-1.05	
09 65 13 36-0014	LF		1/4" Material To Floor x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-JL) .....	8.53	1.54
			<i>For Up To 20, Add</i>	2.26	
			<i>For &gt;20 To 40, Add</i>	1.34	
			<i>For &gt;40 To 80, Add</i>	0.55	
			<i>For &gt;240 To 960, Deduct</i>	-0.73	
			<i>For &gt;960, Deduct</i>	-1.10	
09 65 13 36-0015	LF		3/8" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-K) .....	7.27	1.54
			<i>For Up To 20, Add</i>	2.07	
			<i>For &gt;20 To 40, Add</i>	1.22	
			<i>For &gt;40 To 80, Add</i>	0.49	
			<i>For &gt;240 To 960, Deduct</i>	-0.60	
			<i>For &gt;960, Deduct</i>	-0.91	
09 65 13 36-0016	LF		3/8" To 1/4" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-L) .....	7.89	1.54
			<i>For Up To 20, Add</i>	2.16	
			<i>For &gt;20 To 40, Add</i>	1.28	
			<i>For &gt;40 To 80, Add</i>	0.52	
			<i>For &gt;240 To 960, Deduct</i>	-0.67	
			<i>For &gt;960, Deduct</i>	-1.00	
09 65 13 36-0017	LF		1/4" To 1/4" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-M) .....	8.53	1.54
			<i>For Up To 20, Add</i>	2.26	
			<i>For &gt;20 To 40, Add</i>	1.34	
			<i>For &gt;40 To 80, Add</i>	0.55	
			<i>For &gt;240 To 960, Deduct</i>	-0.73	
			<i>For &gt;960, Deduct</i>	-1.10	
09 65 13 36-0018	LF		1/8" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-N) .....	7.15	1.54
			<i>For Up To 20, Add</i>	2.05	
			<i>For &gt;20 To 40, Add</i>	1.21	
			<i>For &gt;40 To 80, Add</i>	0.48	
			<i>For &gt;240 To 960, Deduct</i>	-0.59	
			<i>For &gt;960, Deduct</i>	-0.89	
09 65 13 36-0019	LF		3/8" Material To Floor x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-P) .....	6.12	1.54
			<i>For Up To 20, Add</i>	1.90	
			<i>For &gt;20 To 40, Add</i>	1.10	
			<i>For &gt;40 To 80, Add</i>	0.43	
			<i>For &gt;240 To 960, Deduct</i>	-0.49	
			<i>For &gt;960, Deduct</i>	-0.73	
09 65 13 36-0020	LF		3/8" Material To Floor x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-PL) .....	8.76	1.54
			<i>For Up To 20, Add</i>	2.29	
			<i>For &gt;20 To 40, Add</i>	1.37	
			<i>For &gt;40 To 80, Add</i>	0.56	
			<i>For &gt;240 To 960, Deduct</i>	-0.75	
			<i>For &gt;960, Deduct</i>	-1.13	

**09 Finishes****09 60 Flooring****09 65 Resilient Flooring**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 36-0021 LF 1/2" Material To Floor x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-Q) .....	11.13	1.54
For Up To 20, Add	2.65	
For >20 To 40, Add	1.60	
For >40 To 80, Add	0.68	
For >240 To 960, Deduct	-0.99	
For >960, Deduct	-1.49	
09 65 13 36-0022 LF 0.08" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-X) .....	5.96	1.54
For Up To 20, Add	1.87	
For >20 To 40, Add	1.09	
For >40 To 80, Add	0.42	
For >240 To 960, Deduct	-0.47	
For >960, Deduct	-0.71	
09 65 13 36-0023 LF 0.08" To 0.08" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-Y).....	6.04	1.54
For Up To 20, Add	1.89	
For >20 To 40, Add	1.09	
For >40 To 80, Add	0.42	
For >240 To 960, Deduct	-0.48	
For >960, Deduct	-0.72	
09 65 13 36-0024 LF 0.08" To 3/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-Z).....	6.79	1.54
For Up To 20, Add	2.00	
For >20 To 40, Add	1.17	
For >40 To 80, Add	0.46	
For >240 To 960, Deduct	-0.56	
For >960, Deduct	-0.83	

**09 65 16 Resilient Sheet Flooring (09 65)**

Note: Includes mastic and cleaning floor after installation is complete.

**09 65 16 23 Vinyl Sheet Flooring (09 65 16)****09 65 16 23-0001 Vinyl Sheet Flooring (09 65 16 23)**

Note: For flash cove application, add additional square foot of material to form cove base.

09 65 16 23-0002 SF 0.080" Overall Thickness, 0.080" Wear Layer, Homogeneous, Commercial Vinyl Sheet Flooring .....	11.51	0.92
For Up To 40, Add	4.75	
For >40 To 100, Add	2.37	
For >1,000, Deduct	-0.96	
09 65 16 23-0003 SF 0.080" Overall Thickness, 0.060" Wear Layer, Homogeneous, Commercial Vinyl Sheet Flooring .....	9.45	0.92
For Up To 40, Add	4.33	
For >40 To 100, Add	2.17	
For >1,000, Deduct	-0.76	
09 65 16 23-0004 SF 0.080" Overall Thickness, 0.050" Wear Layer, Inlaid With Polyglass Backing, Commercial Vinyl Sheet Flooring.....	6.24	0.92
For Up To 40, Add	3.69	
For >40 To 100, Add	1.85	
For >1,000, Deduct	-0.44	
09 65 16 23-0005 SF 0.080" Overall Thickness, 0.040" Wear Layer, Inlaid With Polyglass Backing, Commercial Vinyl Sheet Flooring.....	8.04	0.92
For Up To 40, Add	4.05	
For >40 To 100, Add	2.03	
For >1,000, Deduct	-0.62	
09 65 16 23-0006 SF 0.080" Overall Thickness, 0.060" Wear Layer, Inlaid With Felt Backing, Commercial Vinyl Sheet Flooring .....	10.68	0.92
For Up To 40, Add	4.58	
For >40 To 100, Add	2.29	
For >1,000, Deduct	-0.88	
09 65 16 23-0007 SF 0.080" Overall Thickness, 0.020" Wear Layer, Slip Retardant Surface, Commercial Vinyl Sheet Flooring.....	14.67	0.92
For Up To 40, Add	5.38	
For >40 To 100, Add	2.69	
For >1,000, Deduct	-1.28	

**09 65 16 23-0008 Heat Welding Vinyl Sheet Flooring Seams (09 65 16 23)**

Note: For areas requiring seamless installations and superior infection control. Includes routing or hand grooving seams, installing welding rod with heat welding gun, trimming the weld rod flush with the floor surface and applying a protective finish to seam.

09 65 16 23-0009 LF Heat Weld Non-Patterned Vinyl Sheet Flooring Seams.....	8.56
09 65 16 23-0010 LF Heat Weld Patterned Vinyl Sheet Flooring Seams .....	8.99

**09 65 16 23-0011 Forming Vinyl Sheet Flooring Inside/Outside Cove Corners (09 65 16 23)**

Note: Excludes heat welding.

09 65 16 23-0012 EA Forming Vinyl Sheet Flooring Inside/Outside Cove Corners.....	20.48
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**09 65 16 23-0013 Vinyl Sheet Flooring Accessories (09 65 16 23)**

09 65 16 23-0014 LF 1/2" Radius Vinyl Cove Filler Strip .....	4.71
09 65 16 23-0015 LF 1-1/4" Radius Vinyl Cove Filler Strip .....	4.29
09 65 16 23-0016 LF 1-1/2" Radius Vinyl Cove Filler Strip .....	6.41
09 65 16 23-0017 LF 1/8" Aluminum Cove Cap.....	3.47

**09 65 19 Resilient Tile Flooring (09 65)**

Note: Includes mastic and cleaning floor after installation is complete. Demolition includes removal of the tile and adhesive and cleaning of the surface for a new floor.

**09 65 19 19 Vinyl Composition Tile Flooring (09 65 19)**



<b>Finishes</b>	<b>09</b>	<b>09</b>
Flooring	09 60	
Resilient Flooring	09 65	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 65 19 19-0001	<b>Vinyl Composition Tile (VCT)</b> <small>(09 65 19 19)</small> Note: The following vinyl composition tiles are certified to ASTM F 1066 Class 1 solid color tile, Class 2 through pattern tile or Class 3 surface pattern tile as listed in the task description.		
09 65 19 19-0002	SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Standard Excelon Imperial Texture®).....	4.83	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.11	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.27	
	<i>For &gt;6,000, Deduct</i>	-0.49	
	<i>For 3/32" Thick, Deduct</i>	-0.26	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0003	SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Standard Excelon MultiColor™).....	4.66	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.10	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.27	
	<i>For &gt;6,000, Deduct</i>	-0.48	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0004	SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Standard Excelon Rave®).....	4.66	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.10	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.27	
	<i>For &gt;6,000, Deduct</i>	-0.48	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0005	SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® ChromaSpin™).....	6.96	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.15	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.36	
	<i>For &gt;6,000, Deduct</i>	-0.62	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0006	SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Excelon Companion Square®).....	6.99	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.15	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.36	
	<i>For &gt;6,000, Deduct</i>	-0.62	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0007	SF 1/8" Thick, Class 3 Surface Pattern, Vinyl Composition Tile (VCT) (Armstrong® Arteffects®).....	7.43	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.16	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.38	
	<i>For &gt;6,000, Deduct</i>	-0.65	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0008	SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Excelon Stonetex®).....	7.49	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.16	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.38	
	<i>For &gt;6,000, Deduct</i>	-0.65	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0009	SF 1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Raffia™).....	7.77	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.17	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.39	
	<i>For &gt;6,000, Deduct</i>	-0.67	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0010	SF 1/8" Thick, Slip Retardant, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Safety Zone™).....	10.29	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.22	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.49	
	<i>For &gt;6,000, Deduct</i>	-0.82	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0011	SF 1/8" Thick, Class 1 Solid Color, Vinyl Composition Tile (VCT) (Armstrong® Excelon Feature™).....	11.28	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.24	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.53	
	<i>For &gt;6,000, Deduct</i>	-0.88	
	<i>For Extra Stock, Material Only, Deduct</i>	-2.16	
09 65 19 19-0012	<b>Static Dissipative Vinyl Composition Tile (VCT)</b> <small>(09 65 19 19)</small> Note: The following vinyl composition tiles are certified to ASTM F 1066 Class 2 through pattern tile as listed in the task description.		
09 65 19 19-0013	SF 1/8" Thick, Static Dissipative, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® SDT™).....	19.22	1.84
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.40	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.90	
	<i>For &gt;6,000, Deduct</i>	-1.50	
	<i>For Extra Stock, Material Only, Deduct</i>	-3.65	
09 65 19 19-0014	SF 1/8" Thick, Static Dissipative, Solid Vinyl Composition Tile (VCT) (Staticworx, Ameriworx® ESD).....	14.82	1.84
	<i>For Up To 20, Add</i>	3.76	
	<i>For &gt;20 To 40, Add</i>	2.25	
	<i>For &gt;40 To 80, Add</i>	0.93	
	<i>For &gt;1,000 To 3,000, Deduct</i>	-0.32	
	<i>For &gt;3,000 To 6,000, Deduct</i>	-0.73	
	<i>For &gt;6,000, Deduct</i>	-1.23	
	<i>For Extra Stock, Material Only, Deduct</i>	-3.65	

**09 65 19 23 Vinyl Tile Flooring** (09 65 19)

09 65 19 23-0001	<b>Vinyl Tile</b> <small>(09 65 19 23)</small> Note: Any size.		
09 65 19 23-0002	<b>Solid Vinyl Tile (SVT)</b> <small>(09 65 19 23-0001)</small> Note: The following solid vinyl tiles are certified to ASTM F 1700.		

**09 Finishes****09 60 Flooring****09 65 Resilient Flooring**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 19 23-0003 SF 1/8" Thick, Class 1 Type A, Homogeneous, Solid Vinyl Tile (SVT) (Tarkett® Azrock® Cortina Grande).....	12.49	1.84
For Up To 20, Add	3.13	
For >20 To 40, Add	1.88	
For >40 To 80, Add	0.78	
For >1,000 To 3,000, Deduct	-0.27	
For >3,000 To 6,000, Deduct	-0.61	
For >6,000, Deduct	-1.03	
09 65 19 23-0004 SF 1/8" Thick, Class 1 Type A, Homogeneous, Solid Vinyl Tile (SVT) (Tarkett® Azrock® Karim Kolors).....	12.82	1.84
For Up To 20, Add	3.18	
For >20 To 40, Add	1.91	
For >40 To 80, Add	0.80	
For >1,000 To 3,000, Deduct	-0.27	
For >3,000 To 6,000, Deduct	-0.62	
For >6,000, Deduct	-1.05	
09 65 19 23-0005 SF 1/8" Thick, Slip Retardant, Class 1 Type B, Homogeneous, Solid Vinyl Tile (SVT) (Tarkett® Azrock® Cortina Grande SR) .....	13.07	1.84
For Up To 20, Add	3.22	
For >20 To 40, Add	1.94	
For >40 To 80, Add	0.81	
For >1,000 To 3,000, Deduct	-0.28	
For >3,000 To 6,000, Deduct	-0.63	
For >6,000, Deduct	-1.07	
<b>09 65 19 23-0006 Luxury Vinyl Tile (LVT) (09 65 19 23-0001)</b>		
09 65 19 23-0007 SF 2.5mm Thick, Luxury Vinyl Tile (LVT) (Mannington Amtico) .....	17.18	1.84
For Up To 20, Add	3.84	
For >20 To 40, Add	2.35	
For >40 To 80, Add	1.02	
For >1,000 To 3,000, Deduct	-0.36	
For >3,000 To 6,000, Deduct	-0.80	
For >6,000, Deduct	-1.31	
<b>09 65 19 33 Rubber Tile Flooring (09 65 19)</b>		
09 65 19 33-0001 Rubber Tile (09 65 19 33)		
09 65 19 33-0002 Rubber Tile With Raised Discs, Assorted Colors (09 65 19 33-0001)		
09 65 19 33-0003 SF 1/8" Thick Rubber Tile With Raised Discs .....	23.46	1.11
Note: Smooth, raised disc or other patterned surface.		
For Up To 100, Add	1.29	
09 65 19 33-0004 SF 3/16" Thick Rubber Tile With Raised Discs .....	28.39	1.23
Note: Smooth, raised disc or other patterned surface.		
For Up To 100, Add	1.54	
09 65 19 33-0005 SF 7/32" Thick Rubber Tile With Raised Discs .....	31.56	1.48
Note: Smooth, raised disc or other patterned surface.		
For Up To 100, Add	1.73	
<b>09 65 19 43 Polyester Composition Tile Flooring (09 65 19)</b>		
09 65 19 43-0001 Polyester Composition Floor Tile (09 65 19 43)		
Note: Any size.		
09 65 19 43-0002 SF 1/8" Thick, Polyester Composition Floor Tile (Armstrong® BioBased Tile® Migrations®).....	10.96	1.84
For >1,000 To 3,000, Deduct	-0.23	
For >3,000 To 6,000, Deduct	-0.52	
For >6,000, Deduct	-0.86	
For Extra Stock, Material Only, Deduct	-2.16	
09 65 19 43-0003 SF 1/8" Thick, Polyester Composition Floor Tile (Armstrong® BioBased Tile® Striations®) .....	8.19	1.84
For >1,000 To 3,000, Deduct	-0.18	
For >3,000 To 6,000, Deduct	-0.41	
For >6,000, Deduct	-0.70	
For Extra Stock, Material Only, Deduct	-2.16	
<b>09 65 23 Resilient Plank Flooring (09 65)</b>		
Note: Includes mastic and cleaning floor after installation is complete.		
09 65 23 00-0001 Vinyl Plank Flooring (09 65 23)		
09 65 23 00-0002 SF 0.110" Overall Thickness, 0.012" Wear Layer, Vinyl Plank Flooring (Armstrong® Luxe Plank™) .....	8.70	0.92
For Up To 40, Add	4.18	
For >40 To 100, Add	2.09	
For >1,000, Deduct	-0.68	
09 65 23 00-0003 SF 0.135" Overall Thickness, 0.020" Wear Layer, Vinyl Plank Flooring (Armstrong® Luxe Plank™) .....	10.90	0.92
For Up To 40, Add	4.62	
For >40 To 100, Add	2.31	
For >1,000, Deduct	-0.90	
09 65 23 00-0004 SF 0.16" Overall Thickness, 0.020" Wear Layer, Vinyl Plank Flooring (Armstrong® Luxe Plank™) .....	12.26	0.92
For Up To 40, Add	4.90	
For >40 To 100, Add	2.45	
For >1,000, Deduct	-1.04	

**09 65 43 Linoleum Flooring (09 65)**

Note: Includes mastic and cleaning floor after installation is complete.



		<b>Finishes</b>	<b>09</b>
		Flooring	09 60
		Resilient Flooring	09 65

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 43 00-0001			<b>Linoleum Flooring</b> (09 65 43)		
09 65 43 00-0002	SF		Linoleum Tile (Forbo Marmoleum Composition Tile, MCT) .....	7.77	1.84
09 65 43 00-0003	SF		2.5 mm, Linoleum Sheet (Forbo Marmoleum) .....	5.74	0.92
			<i>For 3.2mm Thickness, Add</i>	0.77	
			<i>For 2mm Thickness, Deduct</i>	-0.37	
09 65 43 00-0004	LF		Heat Weld Linoleum Sheet Flooring Seams .....	8.56	
			Note: For areas requiring seamless installations and superior infection control. Includes routing or hand grooving seams, installing welding rod with heat welding gun, trimming the weld rod flush with the floor surface and applying a protective finish to seam.		
09 65 66			<b>Resilient Athletic Flooring</b> (09 65)		
09 65 66 00-0001			<b>Recycled Rubber, Interlocking Athletic Tiles</b> (09 65 66)		
09 65 66 00-0002	SF		3/8" Height, Recycled Rubber, Interlocking Athletic Tile .....	7.86	0.86
			<i>For Colors, Add</i>	1.33	
09 65 66 00-0003	SF		1/2" Height, Recycled Rubber, Interlocking Athletic Tile .....	9.16	1.08
			<i>For Colors, Add</i>	1.52	
09 65 66 00-0004	SF		3/4" Height, Recycled Rubber, Interlocking Athletic Tile .....	10.74	1.72
			<i>For Colors, Add</i>	1.66	
09 65 66 00-0005	SF		1" Height, Recycled Rubber, Interlocking Athletic Tile .....	15.49	2.09
			<i>For Colors, Add</i>	2.50	
09 65 66 00-0006			<b>Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tiles</b> (09 65 66)		
09 65 66 00-0007	SF		3/8" Height, Black Hammered Surface, Closed Cell, 100 Percent Virgin Rubber, Hidden Interlocking Athletic Tile (Pawling HL-155) .....	40.94	0.86
			<i>For Colors, Add</i>	4.96	
09 65 66 00-0008	SF		9/16" Height, Black Raised Squares Surface, Closed Cell, 100 Percent Virgin Rubber, Hidden Interlocking Athletic Tile (Pawling HL-100) .....	59.16	0.86
			<i>For Colors, Add</i>	7.24	
09 65 66 00-0009	SF		3/8" Height, Black Raised Discs Surface, Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tile (Pawling PL-100) .....	43.23	0.86
			<i>For Colors, Add</i>	5.25	
09 65 66 00-0010	SF		9/16" Height, Black Raised Nubs Surface, Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tile (Pawling PL-200) .....	53.16	0.86
			<i>For Colors, Add</i>	6.49	
09 65 66 00-0011	SF		7/16" Height, Black Reversible Hammered Surface, Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tile (Pawling FL-150) .....	44.46	0.86
			<i>For Colors, Add</i>	5.40	
09 65 66 00-0012			<b>Sheet Goods For Gym</b> (09 65 66)		
09 65 66 00-0013	SF		1/4" Polyvinyl Chloride (PVC) Cushioned Synthetic Gym Floor .....	22.93	3.69
09 65 66 00-0014	SF		9/32" Polyvinyl Chloride (PVC) Cushioned Synthetic Gym Floor .....	24.23	3.81
09 65 66 00-0015	SF		3/8" Polyvinyl Chloride (PVC) Cushioned Synthetic Gym Floor .....	25.42	3.93
09 65 66 00-0016	SF		1/8" Rubber Sheet Good For Gym Floor Base .....	6.24	3.01
09 65 66 00-0017	SF		3/16" Rubber Sheet Good For Gym Floor Base .....	7.00	3.44
09 65 66 00-0018	SF		1/4" Rubber Sheet Good For Gym Floor Base .....	7.98	3.69
09 65 66 00-0019	SF		3/8" Rubber Sheet Good For Gym Floor Base .....	8.70	3.93
09 65 66 00-0020	SF		1/2" Rubber Sheet Good For Gym Floor Base .....	9.19	4.18
09 65 66 00-0021			<b>Polyurethane Floor Systems</b> (09 65 66)		
			See CSI section 09 93 23 53-0015 for game lines.		
09 65 66 00-0022	SF		9 mm Thick Base Coat, 2 mm Thick Top Coat, Polyurethane Floor System With Polyurethane/Rubber Granulate Base (Robbins Pulastic) .....	25.57	2.45
09 66			<b>Terrazzo Flooring</b> (09 60)		
09 66 13			<b>Portland Cement Terrazzo Flooring</b> (09 66)		
			Note: Excludes divider strips. See CSI section 09 66 33 00-0000 for conductive terrazzo.		
09 66 13 13			<b>Sand Cushion Terrazzo Flooring</b> (09 66 13)		
09 66 13 13-0001			<b>Floors Not Bonded To Concrete</b> (09 66 13 13)		
			Note: 3" Thick - 5/8" topping and 1/4" sand cushion.		
09 66 13 13-0002	SF		Terrazzo Floor, Not Bonded, Gray Cement 3" Thick With 5/8" Topping, 1/4" Sand Cushion .....	40.10	3.09
			<i>For Venetian Type Terrazzo, Add</i>	11.80	
			<i>For Abrasive Heavy Duty Terrazzo, Add</i>	11.80	
			<i>For Colors, Add</i>	5.90	
			<i>For Up To 100, Add</i>	8.96	
			<i>For &gt;100 To 250, Add</i>	4.48	
09 66 13 13-0003	SF		Terrazzo Floor, Not Bonded, White Cement 3" Thick With 5/8" Topping, 1/4" Sand Cushion .....	40.33	3.09
			<i>For Venetian Type Terrazzo, Add</i>	11.91	
			<i>For Abrasive Heavy Duty Terrazzo, Add</i>	11.91	
			<i>For Colors, Add</i>	5.96	
			<i>For Up To 100, Add</i>	8.99	
			<i>For &gt;100 To 250, Add</i>	4.49	
09 66 13 16			<b>Monolithic Terrazzo Flooring</b> (09 66 13)		

**09 Finishes****09 60 Flooring****09 66 Terrazzo Flooring**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 66 13 16-0001			<b>Monolithic Terrazzo</b> (09 66 13 16)		
09 66 13 16-0002	SF		Monolithic Terrazzo, 3-1/2" Base 5/8" Topping, 4' To 5' Square Panels Topping Note: Including Mesh And Felt	23.18	3.09
			<i>For Venetian Type Terrazzo, Add</i>	8.59	
			<i>For Abrasive Heavy Duty Terrazzo, Add</i>	8.59	
			<i>For Colors, Add</i>	4.30	
			<i>For Up To 100, Add</i>	4.12	
			<i>For &gt;100 To 250, Add</i>	2.06	
<b>09 66 13 19</b>			<b>Bonded Terrazzo Flooring</b> (09 66 13)		
09 66 13 19-0001			<b>Floors Bonded To Concrete</b> (09 66 13 19)		
			Note: 1-3/4" Thick - 5/8" topping.		
09 66 13 19-0002	SF		Terrazzo Floor, Bonded To Concrete, Gray Cement 1-3/4" Thick With 5/8" Topping	32.16	3.09
			<i>For Venetian Type Terrazzo, Add</i>	9.74	
			<i>For Abrasive Heavy Duty Terrazzo, Add</i>	9.74	
			<i>For Colors, Add</i>	4.87	
			<i>For Up To 100, Add</i>	7.02	
			<i>For &gt;100 To 250, Add</i>	3.51	
09 66 13 19-0003	SF		Terrazzo Floor, Bonded To Concrete, White Cement 1-3/4" Thick With 5/8" Topping	32.39	3.09
			<i>For Venetian Type Terrazzo, Add</i>	9.85	
			<i>For Abrasive Heavy Duty Terrazzo, Add</i>	9.85	
			<i>For Colors, Add</i>	4.93	
			<i>For Up To 100, Add</i>	7.05	
			<i>For &gt;100 To 250, Add</i>	3.52	
09 66 13 19-0004			<b>Terrazzo Wainscot</b> (09 66 13 19)		
09 66 13 19-0005	SF		1-1/2" Thick Terrazzo Wainscot, Cast In Place, Bonded To Concrete Or Masonry	40.10	4.13
			<i>For Venetian Type Terrazzo, Add</i>	6.30	
09 66 13 19-0006			<b>Terrazzo Base</b> (09 66 13 19)		
09 66 13 19-0007	SF		6" Cove Type Terrazzo Base, Cast In Place, Bonded To Concrete Or Masonry	46.00	3.33
			<i>For Venetian Type Terrazzo, Add</i>	13.75	
09 66 13 19-0008			<b>Terrazzo Curb</b> (09 66 13 19)		
09 66 13 19-0009	LF		6" x 6" Terrazzo Curb, Cast In Place, Polished Top And 2 Faces	110.67	22.21
			<i>For Venetian Type Terrazzo, Add</i>	18.33	
09 66 13 19-0010			<b>Stairs Cast In Place</b> (09 66 13 19)		
			Note: Topping applied to concrete or metal.		
09 66 13 19-0011	LF		1-1/2" Thick x 12" Wide, Terrazzo Stair, Cast In Place, Bonded To Concrete Or Metal	40.31	6.19
			<i>For Each SF Of Abrasive Surface Finish, Add</i>	0.35	
			<i>For Each LF Of Embedded Abrasive Strips, Add</i>	0.56	
			<i>For Each LF Of Abrasive Metal Nosing, Add</i>	3.90	
			<i>For Each SF Of Landings, Add</i>	1.50	
09 66 13 19-0012	LF		Terrazzo Stair Tread And Riser, Cast In Place, Bonded To Concrete Or Metal	98.32	20.63
			<i>For Each SF Of Abrasive Surface Finish, Add</i>	0.35	
			<i>For Each LF Of Embedded Abrasive Strips, Add</i>	0.56	
			<i>For Each LF Of Abrasive Metal Nosing, Add</i>	3.90	
			<i>For Each SF Of Landings, Add</i>	1.50	
09 66 13 19-0013	SF		Terrazzo Stair Stringer And Fascia, Cast In Place, Bonded To Concrete Or Metal	41.00	6.19
			<i>For Each SF Of Abrasive Surface Finish, Add</i>	0.35	
			<i>For Each LF Of Embedded Abrasive Strips, Add</i>	0.56	
			<i>For Each LF Of Abrasive Metal Nosing, Add</i>	3.90	
			<i>For Each SF Of Landings, Add</i>	1.50	
09 66 13 19-0014			<b>Divider Strips</b> (09 66 13 19)		
09 66 13 19-0015	LF		1-1/4" Deep, 14 Gauge, Zinc Plated Steel, Divider Strip	6.50	1.03
09 66 13 19-0016	LF		1-1/4" Deep, 14 Gauge, Brass, Divider Strip	6.10	1.03
09 66 13 19-0017	LF		1-1/4" Deep, 1/4" Thick, Zinc Plated Steel, Heavy Top Strip	10.17	1.03
09 66 13 19-0018	LF		1-1/4" Deep, 1/4" Thick, Galvanized Steel Bottom, Brass, Heavy Top Strip	15.27	1.03
09 66 13 19-0019	LF		1/2" x 1/2", 16 Gauge, Zinc Plated Steel, Divider Strip For Thin Set Floors	6.19	1.03
09 66 13 19-0020	LF		1/2" x 1/2", 16 Gauge, Brass, Divider Strip For Thin Set Floors	9.40	1.03
09 66 13 19-0021	LF		Vinyl Plastic, Divider Strip For Floor	6.61	1.03
<b>09 66 16</b>			<b>Terrazzo Floor Tile</b> (09 66)		
<b>09 66 16 13</b>			<b>Portland Cement Terrazzo Floor Tile</b> (09 66 16)		
09 66 16 13-0001			<b>Flooring Tiles</b> (09 66 16 13)		
			Note: Gray cement setting bed 3/16" polyester matrix or 1/2" cement matrix 12" x 12".		
09 66 16 13-0002			<b>Terrazzo Tiles With Non-Slip Surface</b> (09 66 16 13-0001)		
09 66 16 13-0003	SF		9" x 9" x 1" Non-Slip Precast Terrazzo, Thin Set Floor Tile	36.87	3.05
			<i>For White Cement, Add</i>	0.36	
			<i>For Venetian Type Terrazzo, Add</i>	2.00	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Flooring	09 60	
Terrazzo Flooring	09 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 66 16 13-0004 SF 12" x 12" x 1" Non-Slip Precast Terrazzo, Thin Set Floor Tile ..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	38.06 0.36 2.00	3.05
09 66 16 13-0005 SF 12" x 12" x 1-1/2" Non-Slip Precast Terrazzo, Thin Set Floor Tile ..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	44.35 0.36 2.00	3.05
09 66 16 13-0006 SF 18" x 18" x 1-1/2" Non-Slip Precast Terrazzo, Thin Set Floor Tile ..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	48.03 0.36 2.00	3.05
09 66 16 13-0007 SF 24" x 24" x 1-1/2" Non-Slip Precast Terrazzo, Thin Set Floor Tile ..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	50.93 0.36 2.00	3.05
<b>09 66 16 13-0008 Terrazzo Tile Thin Set</b> (09 66 16 13-0001)		
09 66 16 13-0009 SF Precast Terrazzo, 1/4" To 1/2" Chips Floor Tiles, Thin Set Gray Cement Bed ..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	36.77 0.36 2.00	3.05
09 66 16 13-0010 SF Precast Terrazzo, 3/8" To 1" Chips Floor Tiles, Thin Set Gray Cement Bed ..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	39.46 0.36 2.00	3.05
<b>09 66 16 13-0011 Thin Set Terrazzo Wainscot</b> (09 66 16 13-0001)		
09 66 16 13-0012 SF 12" x 12" x 1" Terrazzo Tile Wainscot Thin Set ..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	56.63 0.50 1.00	6.66
09 66 16 13-0013 SF 18" x 18" x 1-1/2" Terrazzo Tile Wainscot Thin Set ..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	64.41 0.50 1.00	6.66
<b>09 66 16 13-0014 Thin Set Terrazzo Base, Gray Cement</b> (09 66 16 13-0001)		
09 66 16 13-0015 LF 6" High, Straight Terrazzo Base Thin Set, Gray Cement ..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	19.22 0.50 1.00	3.33
09 66 16 13-0016 LF 6" High, Cove Terrazzo Base Thin Set, Gray Cement ..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	21.71 0.50 1.00	3.33
09 66 16 13-0017 LF 8" High, Straight Terrazzo Base Thin Set, Gray Cement ..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	22.56 0.50 1.00	3.33
09 66 16 13-0018 LF 8" High, Cove Terrazzo Base Thin Set, Gray Cement ..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	23.80 0.50 1.00	3.33
<b>09 66 16 13-0019 Terrazzo Curbs</b> (09 66 16 13-0001)		
09 66 16 13-0020 LF 8" x 8" Curb, Terrazzo Tile ..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	37.19 0.50 1.00	4.45
09 66 16 13-0021 LF 6" x 6" Curb, Terrazzo Tile ..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	35.94 0.50 1.00	4.45
<b>09 66 16 13-0022 Precast Terrazzo Stair Treads 12" Wide</b> (09 66 16 13-0001)		
09 66 16 13-0023 LF 1-1/2" Precast Terrazzo Stair Tread 12" Wide x 1-1/2" Thick, Diamond Pattern .....	98.09	4.45
09 66 16 13-0024 LF 1-1/2" Precast Terrazzo Stair Tread 12" Wide x 1-1/2" Thick, Non-Slip Surface .....	83.15	4.45
09 66 16 13-0025 LF 2" Precast Terrazzo Straight Stair Tread .....	73.18	4.45
09 66 16 13-0026 LF 2" Precast Terrazzo Curved Stair Tread .....	85.95	4.45
<b>09 66 16 13-0027 Stair Risers, 1" Thick To 6" High, Straight</b> (09 66 16 13-0001)		
09 66 16 13-0028 LF 1" To 6" High Precast Terrazzo Stair Riser Straight Section, Thin Set .....	43.78	3.33
09 66 16 13-0029 LF 1" To 6" High Precast Terrazzo Stair Riser Straight Cove Section, Thin Set .....	51.25	3.33
<b>09 66 16 13-0030 Stair Risers, 1" Thick To 6" High, Curved</b> (09 66 16 13-0001)		
09 66 16 13-0031 LF 1" To 6" High Precast Terrazzo Stair Riser Curved Vertical Section, Thin Set .....	65.28	3.33
09 66 16 13-0032 LF 1" To 6" High Precast Terrazzo Stair Riser Curved Cove Section, Thin Set .....	70.27	3.33
<b>09 66 16 13-0033 Tread And Riser</b> (09 66 16 13)		
<b>09 66 16 13-0034 Stair Stringers, Notched For Treads And Risers</b> (09 66 16 13-0033)		
09 66 16 13-0035 LF 1" Precast Terrazzo Stair Stringers Notched For Treads And Risers .....	108.46	8.88
09 66 16 13-0036 LF 2" Precast Terrazzo Stair Stringers Notched For Treads And Risers .....	131.19	8.88
<b>09 66 16 13-0037 Structural Non-Slip Landings</b> (09 66 16 13-0033)		
09 66 16 13-0038 SF 1-1/2" Thick Precast Terrazzo Stair Landing Structural, Non-Slip .....	78.44	4.45

<b>68</b>	<b>09</b>	<b>Finishes</b>
	<b>09 60</b>	<b>Flooring</b>
	<b>09 66</b>	<b>Terrazzo Flooring</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 66 16 13-0039 SF 3" Thick Precast Terrazzo Stair Landing Structural, Non-Slip.....	97.12	4.45
<b>09 66 16 13-0040 Combined Tread And Riser</b> (09 66 16 13-0033)		
<b>09 66 16 13-0041 Straight Sections</b> (09 66 16 13-0040)		
09 66 16 13-0042 LF Precast Terrazzo Stair Tread And Riser 1-1/2" Tread, 3/4" Riser, Straight Section.....	173.68	8.88
09 66 16 13-0043 LF Precast Terrazzo Stair Tread And Riser 3" Tread, 1" Riser, Straight Section.....	208.56	8.88
<b>09 66 16 13-0044 Curved Sections</b> (09 66 16 13-0040)		
09 66 16 13-0045 LF Precast Terrazzo Stair Tread And Riser 2" Tread, 1" Riser, Curved Section.....	218.89	8.88
09 66 16 13-0046 LF Precast Terrazzo Stair Tread And Riser 3" Tread, 1" Riser, Curved Section.....	278.68	8.88
<b>09 66 23 Resinous Matrix Terrazzo Flooring</b> (09 66)		
<b>09 66 23 16 Epoxy-Resin Terrazzo Flooring</b> (09 66 23)		
<b>09 66 23 16-0001 Epoxy Terrazzo</b> (09 66 23 16)		
09 66 23 16-0002 SF Chemical Resistant Epoxy Terrazzo, 1/4" Thick.....	31.21	3.09
<b>09 66 33 Conductive Terrazzo Flooring</b> (09 66)		
Note: For anti-static areas.		
<b>09 66 33 13 Conductive Epoxy-Resin Terrazzo</b> (09 66 33)		
09 66 33 13-0001 SF Terrazzo, Epoxy System, Floor Sparkproof, Conductive, Industrial.....	34.09	5.55
09 66 33 13-0002 SF Terrazzo, Epoxy System, Base Sparkproof, Conductive, Industrial.....	62.90	5.55
<b>09 66 33 16 Conductive Polyester-Resin Terrazzo Flooring</b> (09 66 33)		
09 66 33 16-0001 SF Terrazzo, Polyester System, Floor Sparkproof, Conductive, Industrial.....	25.90	5.55
09 66 33 16-0002 SF Terrazzo, Polyester System, Base Sparkproof, Conductive, Industrial.....	45.60	5.55
<b>09 66 33 19 Conductive Plastic-Matrix Terrazzo Flooring</b> (09 66 33)		
09 66 33 19-0001 SF Terrazzo, Polyacrylate System, Floor Sparkproof, Conductive, Industrial.....	28.86	5.55
09 66 33 19-0002 SF Terrazzo, Polyacrylate System, Base Sparkproof, Conductive, Industrial.....	56.42	5.55
09 66 33 19-0003 SF Terrazzo, Synthetic Latex Mastic System, Floor Sparkproof, Conductive, Industrial.....	42.61	5.55
09 66 33 19-0004 SF Terrazzo, Synthetic Latex Mastic System, Base Sparkproof, Conductive, Industrial.....	47.97	5.55
<b>09 67 Fluid-Applied Flooring</b> (09 60)		
<b>09 67 16 Epoxy-Marble Chip Flooring</b> (09 67)		
<b>09 67 16 00-0001 Epoxy Marble Chip Flooring</b> (09 67 16)		
09 67 16 00-0002 SF Epoxy Marble Floor With Colored Quartz Chips In 1/4" Base.....	17.91	3.09
Note: Includes primer, 1/4" epoxy marble coat with quartz chips and top seal coat.		
For Skid Resistant Abrasive Sand Finish, Add	0.08	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.08	
09 67 16 00-0003 SF Epoxy Marble Chip Floor, Topping 3/16" Thick, Heavy Duty Epoxy.....	19.12	3.09
Note: Includes primer, 3/16" marble chip coat and top seal coat.		
For Skid Resistant Abrasive Sand Finish, Add	0.10	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.10	
<b>09 67 23 Resinous Flooring</b> (09 67)		
<b>09 67 23 00-0001 Epoxy Resin Flooring</b> (09 67 23)		
Note: Includes primer, slurry coat(s) and top coat(s) (assorted colors). Excludes existing floor preparation of sand/bed blasting or two pass floor grinding, degreasing and cleaning of existing floor system prior to application if applied directly to floor. Excludes floor patching, saw cutting joints, additional grinding of existing floor, leveling of floor, removal of existing floor or tiles, and applied markings or stripes. See CSI section 03 01 30 51-0001 for bead blasting, 03 35 43 00-0001 for additional floor polish grinding, 09 01 60 91-0011 for degreasing.		
09 67 23 00-0002 SF 3/16" Heavy Duty (6,000 To 7,500 PSI) Epoxy Flooring Trowel Applied Mortar Compound.....	12.96	7.01
Note: Includes primer, one 3/16" slurry coat and top seal coats (color).		
For Skid Resistant Abrasive Sand Finish, Add	0.05	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.05	
For Up To 500, Add	2.42	
For >500 To 1,000, Add	1.53	
For >1,000 To 2,000, Add	0.77	
For >10,000, Deduct	-0.85	
09 67 23 00-0003 SF 3/16" Chemical Resistant (10,000 To 12,000 PSI) Epoxy Flooring Trowel Applied Mortar Compound.....	18.65	7.01
Note: Includes primer, one 3/16" slurry coat and top seal coats (color).		
For Skid Resistant Abrasive Sand Finish, Add	0.10	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.10	
For Up To 500, Add	3.84	
For >500 To 1,000, Add	2.39	
For >1,000 To 2,000, Add	1.19	
For >10,000, Deduct	-1.14	



<b>Finishes</b>	<b>09</b>	<b>09</b>
<b>Flooring</b>	<b>09 60</b>	
<b>Fluid-Applied Flooring</b>	<b>09 67</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 67 23 00-0004 SF 1/4" Heavy Duty (6,000 To 7,500 PSI) Epoxy Flooring Trowel Applied Mortar Compound.....	15.54	7.84
Note: Includes primer, two 1/8" slurry coats and top seal coats (color).		
For Skid Resistant Abrasive Sand Finish, Add	0.05	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.05	
For Up To 500, Add	2.85	
For >500 To 1,000, Add	1.82	
For >1,000 To 2,000, Add	0.91	
For >10,000, Deduct	-1.03	
09 67 23 00-0005 SF 1/4" Chemical Resistant (10,000 To 12,000 PSI) Epoxy Flooring Trowel Applied Mortar Compound .....	22.06	7.84
Note: Includes primer, two 1/8" slurry coats and top seal coats (color).		
For Skid Resistant Abrasive Sand Finish, Add	0.12	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.12	
For Up To 500, Add	4.48	
For >500 To 1,000, Add	2.79	
For >1,000 To 2,000, Add	1.40	
For >10,000, Deduct	-1.36	
09 67 23 00-0006 SF 3/8" Heavy Duty (6,000 To 7,500 PSI) Epoxy Flooring Trowel Applied Mortar Compound.....	17.53	8.77
Note: Includes primer, two 3/16" slurry coats and top seal coats (color).		
For Skid Resistant Abrasive Sand Finish, Add	0.06	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.06	
For Up To 500, Add	3.24	
For >500 To 1,000, Add	2.06	
For >1,000 To 2,000, Add	1.03	
For >10,000, Deduct	-1.16	
09 67 23 00-0007 SF 3/8" Chemical Resistant (10,000 To 12,000 PSI) Epoxy Flooring Trowel Applied Mortar Compound .....	24.44	8.77
Note: Includes primer, two 3/16" slurry coats and top seal coats (color).		
For Skid Resistant Abrasive Sand Finish, Add	0.13	
For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.13	
For Up To 500, Add	4.96	
For >500 To 1,000, Add	3.09	
For >1,000 To 2,000, Add	1.55	
For >10,000, Deduct	-1.51	

**09 68 Carpeting** (09 60)

Note: No VOC carpet and adhesives. Includes tack strips, glue and floor fastenings as required and vacuuming.

**09 68 13 Tile Carpeting** (09 68)

09 68 13 00-0001 Tufted Carpet Tiles (09 68 13)

Note: Level-loop pile or textured-loop pile carpet tiles. Includes glue or peel and stick backing.

09 68 13 00-0002 Non-Patterned Carpet Tiles (09 68 13 00-0001)

09 68 13 00-0003 SY 18 Ounce, Non-Patterned, Nylon Carpet Tile .....	38.69	7.39
For Up To 15, Add	3.62	
For >15 To 33, Add	1.81	
For >200 To 400, Deduct	-0.41	
For >400 To 600, Deduct	-0.62	
For >600 To 900, Deduct	-1.30	
For >900 To 1,500, Deduct	-1.98	
For >1,500 To 2,200, Deduct	-2.96	
For >2,200 To 3,500, Deduct	-3.93	
For >3,500, Deduct	-4.90	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0004 SY 20 Ounce, Non-Patterned, Nylon Carpet Tile .....	39.94	7.39
For Up To 15, Add	3.62	
For >15 To 33, Add	1.81	
For >200 To 400, Deduct	-0.44	
For >400 To 600, Deduct	-0.65	
For >600 To 900, Deduct	-1.36	
For >900 To 1,500, Deduct	-2.07	
For >1,500 To 2,200, Deduct	-3.09	
For >2,200 To 3,500, Deduct	-4.09	
For >3,500, Deduct	-5.09	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0005 SY 22 Ounce, Non-Patterned, Nylon Carpet Tile .....	43.90	7.39
For Up To 15, Add	3.62	
For >15 To 33, Add	1.81	
For >200 To 400, Deduct	-0.52	
For >400 To 600, Deduct	-0.77	
For >600 To 900, Deduct	-1.56	
For >900 To 1,500, Deduct	-2.35	
For >1,500 To 2,200, Deduct	-3.48	
For >2,200 To 3,500, Deduct	-4.58	
For >3,500, Deduct	-5.68	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0006 SY 24 Ounce, Non-Patterned, Nylon Carpet Tile .....	47.76	7.39
For Up To 15, Add	3.62	
For >15 To 33, Add	1.81	
For >200 To 400, Deduct	-0.59	
For >400 To 600, Deduct	-0.89	
For >600 To 900, Deduct	-1.75	
For >900 To 1,500, Deduct	-2.62	
For >1,500 To 2,200, Deduct	-3.87	
For >2,200 To 3,500, Deduct	-5.06	
For >3,500, Deduct	-6.26	
For Cushion Backed Tile, Add	6.00	

**09 Finishes**

**09 60 Flooring**

**09 68 Carpeting**



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 68 13 00-0007	SY 26 Ounce, Non-Patterned, Nylon Carpet Tile .....	50.02	7.39
	For Up To 15, Add	3.62	
	For >15 To 33, Add	1.81	
	For >200 To 400, Deduct	-0.64	
	For >400 To 600, Deduct	-0.96	
	For >600 To 900, Deduct	-1.87	
	For >900 To 1,500, Deduct	-2.78	
	For >1,500 To 2,200, Deduct	-4.10	
	For >2,200 To 3,500, Deduct	-5.35	
	For >3,500, Deduct	-6.60	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0008	SY 28 Ounce, Non-Patterned, Nylon Carpet Tile .....	52.33	7.39
	For Up To 15, Add	3.62	
	For >15 To 33, Add	1.81	
	For >200 To 400, Deduct	-0.68	
	For >400 To 600, Deduct	-1.03	
	For >600 To 900, Deduct	-1.98	
	For >900 To 1,500, Deduct	-2.94	
	For >1,500 To 2,200, Deduct	-4.33	
	For >2,200 To 3,500, Deduct	-5.64	
	For >3,500, Deduct	-6.94	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0009	SY 30 Ounce, Non-Patterned, Nylon Carpet Tile .....	53.01	7.39
	For Up To 15, Add	3.62	
	For >15 To 33, Add	1.81	
	For >200 To 400, Deduct	-0.70	
	For >400 To 600, Deduct	-1.05	
	For >600 To 900, Deduct	-2.02	
	For >900 To 1,500, Deduct	-2.99	
	For >1,500 To 2,200, Deduct	-4.40	
	For >2,200 To 3,500, Deduct	-5.72	
	For >3,500, Deduct	-7.05	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0010	SY 32 Ounce, Non-Patterned, Nylon Carpet Tile .....	53.44	7.39
	For Up To 15, Add	3.62	
	For >15 To 33, Add	1.81	
	For >200 To 400, Deduct	-0.71	
	For >400 To 600, Deduct	-1.06	
	For >600 To 900, Deduct	-2.04	
	For >900 To 1,500, Deduct	-3.02	
	For >1,500 To 2,200, Deduct	-4.44	
	For >2,200 To 3,500, Deduct	-5.77	
	For >3,500, Deduct	-7.11	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0011	SY 34 Ounce, Non-Patterned, Nylon Carpet Tile .....	53.80	7.39
	For Up To 15, Add	3.62	
	For >15 To 33, Add	1.81	
	For >200 To 400, Deduct	-0.71	
	For >400 To 600, Deduct	-1.07	
	For >600 To 900, Deduct	-2.06	
	For >900 To 1,500, Deduct	-3.04	
	For >1,500 To 2,200, Deduct	-4.47	
	For >2,200 To 3,500, Deduct	-5.82	
	For >3,500, Deduct	-7.16	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0012	SY 36 Ounce, Non-Patterned, Nylon Carpet Tile .....	55.04	7.39
	For Up To 15, Add	3.62	
	For >15 To 33, Add	1.81	
	For >200 To 400, Deduct	-0.74	
	For >400 To 600, Deduct	-1.11	
	For >600 To 900, Deduct	-2.12	
	For >900 To 1,500, Deduct	-3.13	
	For >1,500 To 2,200, Deduct	-4.60	
	For >2,200 To 3,500, Deduct	-5.97	
	For >3,500, Deduct	-7.35	
	For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0013	SY 38 Ounce, Non-Patterned, Nylon Carpet Tile .....	57.48	7.39
	For Up To 15, Add	3.62	
	For >15 To 33, Add	1.81	
	For >200 To 400, Deduct	-0.79	
	For >400 To 600, Deduct	-1.18	
	For >600 To 900, Deduct	-2.24	
	For >900 To 1,500, Deduct	-3.30	
	For >1,500 To 2,200, Deduct	-4.84	
	For >2,200 To 3,500, Deduct	-6.28	
	For >3,500, Deduct	-7.72	
	For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
	For Cushion Backed Tile, Add	6.00	



		<b>Finishes</b>	<b>09</b>	
		Flooring	09 60	09
		Carpeting	09 68	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 13 00-0014	SY		40 Ounce, Non-Patterned, Nylon Carpet Tile .....	60.10	7.39
			<i>For Up To 15, Add</i>	3.62	
			<i>For &gt;15 To 33, Add</i>	1.81	
			<i>For &gt;200 To 400, Deduct</i>	-0.84	
			<i>For &gt;400 To 600, Deduct</i>	-1.26	
			<i>For &gt;600 To 900, Deduct</i>	-2.37	
			<i>For &gt;900 To 1,500, Deduct</i>	-3.48	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-5.10	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-6.61	
			<i>For &gt;3,500, Deduct</i>	-8.11	
			<i>For Cut And Loop Pile Combination Or Tip Shear Carpet, Add</i>	2.00	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68 13 00-0015	SY		42 Ounce, Non-Patterned, Nylon Carpet Tile .....	65.14	7.39
			<i>For Up To 15, Add</i>	3.62	
			<i>For &gt;15 To 33, Add</i>	1.81	
			<i>For &gt;200 To 400, Deduct</i>	-0.94	
			<i>For &gt;400 To 600, Deduct</i>	-1.41	
			<i>For &gt;600 To 900, Deduct</i>	-2.62	
			<i>For &gt;900 To 1,500, Deduct</i>	-3.84	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-5.61	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-7.24	
			<i>For &gt;3,500, Deduct</i>	-8.87	
			<i>For Cut And Loop Pile Combination Or Tip Shear Carpet, Add</i>	2.00	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68 13 00-0016	SY		Installation Of Owner Provided Non-Patterned Carpet Tiles.....	17.69	
<b>09 68 13 00-0017    Patterned Carpet Tiles</b> <small>(09 68 13 00-0001)</small>					
Note: Patterned carpet has a definitive repeating pattern as defined by the manufacturer.					
09 68 13 00-0018	SY		15 Ounce, Patterned, Nylon Carpet Tile .....	40.14	7.39
			<i>For Up To 15, Add</i>	3.99	
			<i>For &gt;15 To 33, Add</i>	1.99	
			<i>For &gt;200 To 400, Deduct</i>	-0.40	
			<i>For &gt;400 To 600, Deduct</i>	-0.61	
			<i>For &gt;600 To 900, Deduct</i>	-1.31	
			<i>For &gt;900 To 1,500, Deduct</i>	-2.01	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-3.02	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-4.02	
			<i>For &gt;3,500, Deduct</i>	-5.02	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68 13 00-0019	SY		18 Ounce, Patterned, Nylon Carpet Tile .....	40.81	7.39
			<i>For Up To 15, Add</i>	3.99	
			<i>For &gt;15 To 33, Add</i>	1.99	
			<i>For &gt;200 To 400, Deduct</i>	-0.42	
			<i>For &gt;400 To 600, Deduct</i>	-0.63	
			<i>For &gt;600 To 900, Deduct</i>	-1.34	
			<i>For &gt;900 To 1,500, Deduct</i>	-2.06	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-3.08	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-4.10	
			<i>For &gt;3,500, Deduct</i>	-5.13	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68 13 00-0020	SY		20 Ounce, Patterned, Nylon Carpet Tile .....	42.08	7.39
			<i>For Up To 15, Add</i>	3.99	
			<i>For &gt;15 To 33, Add</i>	1.99	
			<i>For &gt;200 To 400, Deduct</i>	-0.44	
			<i>For &gt;400 To 600, Deduct</i>	-0.66	
			<i>For &gt;600 To 900, Deduct</i>	-1.41	
			<i>For &gt;900 To 1,500, Deduct</i>	-2.15	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-3.21	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-4.26	
			<i>For &gt;3,500, Deduct</i>	-5.32	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68 13 00-0021	SY		22 Ounce, Patterned, Nylon Carpet Tile .....	46.10	7.39
			<i>For Up To 15, Add</i>	3.99	
			<i>For &gt;15 To 33, Add</i>	1.99	
			<i>For &gt;200 To 400, Deduct</i>	-0.52	
			<i>For &gt;400 To 600, Deduct</i>	-0.79	
			<i>For &gt;600 To 900, Deduct</i>	-1.61	
			<i>For &gt;900 To 1,500, Deduct</i>	-2.43	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-3.61	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-4.77	
			<i>For &gt;3,500, Deduct</i>	-5.92	
			<i>For Cushion Backed Tile, Add</i>	6.00	
09 68 13 00-0022	SY		24 Ounce, Patterned, Nylon Carpet Tile .....	50.01	7.39
			<i>For Up To 15, Add</i>	3.99	
			<i>For &gt;15 To 33, Add</i>	1.99	
			<i>For &gt;200 To 400, Deduct</i>	-0.60	
			<i>For &gt;400 To 600, Deduct</i>	-0.90	
			<i>For &gt;600 To 900, Deduct</i>	-1.80	
			<i>For &gt;900 To 1,500, Deduct</i>	-2.70	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-4.00	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-5.25	
			<i>For &gt;3,500, Deduct</i>	-6.51	
			<i>For Cushion Backed Tile, Add</i>	6.00	

**09 Finishes**

**09 60 Flooring**

**09 68 Carpeting**



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 68 13 00-0023	SY 26 Ounce, Patterned, Nylon Carpet Tile .....	52.31	7.39
	For Up To 15, Add	3.99	
	For >15 To 33, Add	1.99	
	For >200 To 400, Deduct	-0.65	
	For >400 To 600, Deduct	-0.97	
	For >600 To 900, Deduct	-1.92	
	For >900 To 1,500, Deduct	-2.86	
	For >1,500 To 2,200, Deduct	-4.23	
	For >2,200 To 3,500, Deduct	-5.54	
	For >3,500, Deduct	-6.85	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0024	SY 28 Ounce, Patterned, Nylon Carpet Tile .....	54.65	7.39
	For Up To 15, Add	3.99	
	For >15 To 33, Add	1.99	
	For >200 To 400, Deduct	-0.69	
	For >400 To 600, Deduct	-1.04	
	For >600 To 900, Deduct	-2.03	
	For >900 To 1,500, Deduct	-3.03	
	For >1,500 To 2,200, Deduct	-4.47	
	For >2,200 To 3,500, Deduct	-5.83	
	For >3,500, Deduct	-7.20	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0025	SY 30 Ounce, Patterned, Nylon Carpet Tile .....	55.35	7.39
	For Up To 15, Add	3.99	
	For >15 To 33, Add	1.99	
	For >200 To 400, Deduct	-0.71	
	For >400 To 600, Deduct	-1.06	
	For >600 To 900, Deduct	-2.07	
	For >900 To 1,500, Deduct	-3.08	
	For >1,500 To 2,200, Deduct	-4.54	
	For >2,200 To 3,500, Deduct	-5.92	
	For >3,500, Deduct	-7.31	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0026	SY 32 Ounce, Patterned, Nylon Carpet Tile .....	55.78	7.39
	For Up To 15, Add	3.99	
	For >15 To 33, Add	1.99	
	For >200 To 400, Deduct	-0.72	
	For >400 To 600, Deduct	-1.08	
	For >600 To 900, Deduct	-2.09	
	For >900 To 1,500, Deduct	-3.11	
	For >1,500 To 2,200, Deduct	-4.58	
	For >2,200 To 3,500, Deduct	-5.98	
	For >3,500, Deduct	-7.37	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0027	SY 34 Ounce, Patterned, Nylon Carpet Tile .....	56.15	7.39
	For Up To 15, Add	3.99	
	For >15 To 33, Add	1.99	
	For >200 To 400, Deduct	-0.72	
	For >400 To 600, Deduct	-1.09	
	For >600 To 900, Deduct	-2.11	
	For >900 To 1,500, Deduct	-3.13	
	For >1,500 To 2,200, Deduct	-4.62	
	For >2,200 To 3,500, Deduct	-6.02	
	For >3,500, Deduct	-7.43	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0028	SY 36 Ounce, Patterned, Nylon Carpet Tile .....	57.40	7.39
	For Up To 15, Add	3.99	
	For >15 To 33, Add	1.99	
	For >200 To 400, Deduct	-0.75	
	For >400 To 600, Deduct	-1.12	
	For >600 To 900, Deduct	-2.17	
	For >900 To 1,500, Deduct	-3.22	
	For >1,500 To 2,200, Deduct	-4.74	
	For >2,200 To 3,500, Deduct	-6.18	
	For >3,500, Deduct	-7.61	
	For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
	For Cushion Backed Tile, Add	6.00	
09 68 13 00-0029	SY 38 Ounce, Patterned, Nylon Carpet Tile .....	59.88	7.39
	For Up To 15, Add	3.99	
	For >15 To 33, Add	1.99	
	For >200 To 400, Deduct	-0.80	
	For >400 To 600, Deduct	-1.20	
	For >600 To 900, Deduct	-2.30	
	For >900 To 1,500, Deduct	-3.39	
	For >1,500 To 2,200, Deduct	-4.99	
	For >2,200 To 3,500, Deduct	-6.49	
	For >3,500, Deduct	-7.99	
	For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
	For Cushion Backed Tile, Add	6.00	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Flooring	09 60	
Carpeting	09 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 13 00-0030 SY 40 Ounce, Patterned, Nylon Carpet Tile .....	62.54	7.39
For Up To 15, Add	3.99	
For >15 To 33, Add	1.99	
For >200 To 400, Deduct	-0.85	
For >400 To 600, Deduct	-1.28	
For >600 To 900, Deduct	-2.43	
For >900 To 1,500, Deduct	-3.58	
For >1,500 To 2,200, Deduct	-5.26	
For >2,200 To 3,500, Deduct	-6.82	
For >3,500, Deduct	-8.38	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0031 SY 42 Ounce, Patterned, Nylon Carpet Tile .....	67.66	7.39
For Up To 15, Add	3.99	
For >15 To 33, Add	1.99	
For >200 To 400, Deduct	-0.95	
For >400 To 600, Deduct	-1.43	
For >600 To 900, Deduct	-2.69	
For >900 To 1,500, Deduct	-3.94	
For >1,500 To 2,200, Deduct	-5.77	
For >2,200 To 3,500, Deduct	-7.46	
For >3,500, Deduct	-9.15	
For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
For Cushion Backed Tile, Add	6.00	
09 68 13 00-0032 SY Installation Of Owner Provided Patterned Carpet Tiles .....	20.33	
<b>09 68 13 00-0033 ESD Static Control Carpet Tiles (StaticSmart Mission Critical Discovery ECO Series) (09 68 13 00-0001)</b>		
Note: Includes conductive ESD releasable adhesive and grounding clips.		
09 68 13 00-0034 SY 24 Ounce, ESD Static Control, Non-Patterned, Nylon Carpet Tile (StaticSmart Mission Critical Discovery ECO Series) .....	96.21	7.39
For Up To 15, Add	3.99	
For >15 To 33, Add	1.99	
For >200 To 400, Deduct	-1.53	
For >400 To 600, Deduct	-2.29	
For >600 To 900, Deduct	-4.11	
For >900 To 1,500, Deduct	-5.94	
For >1,500 To 2,200, Deduct	-8.62	
For >2,200 To 3,500, Deduct	-11.03	
For >3,500, Deduct	-13.44	
<b>09 68 16 Sheet Carpeting (09 68)</b>		
Note: Weights shown are face weight excluding backing weight and excludes padding. Demolition of carpet includes removal of glue if required. Residential carpet backing basis is for padding and commercial carpet backing is for glue down.		
09 68 16 00-0001 Carpet Cushion (09 68 16)		
09 68 16 00-0002 Carpet Padding (09 68 16 00-0001)		
09 68 16 00-0003 Prime Polyurethane Foam Carpet Padding (09 68 16 00-0002)		
09 68 16 00-0004 SY 7/16" Thick, Prime Polyurethane Foam Carpet Padding.....	17.42	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.25	
For >400 To 600, Deduct	-0.38	
For >600 To 900, Deduct	-0.71	
For >900 To 1,500, Deduct	-1.03	
For >1,500 To 2,200, Deduct	-1.51	
For >2,200 To 3,500, Deduct	-1.94	
For >3,500, Deduct	-2.38	
09 68 16 00-0005 SY 1/2" Thick, Prime Polyurethane Foam Carpet Padding.....	18.17	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.27	
For >400 To 600, Deduct	-0.40	
For >600 To 900, Deduct	-0.74	
For >900 To 1,500, Deduct	-1.08	
For >1,500 To 2,200, Deduct	-1.58	
For >2,200 To 3,500, Deduct	-2.04	
For >3,500, Deduct	-2.49	
09 68 16 00-0006 Bonded (Rebond) Polyurethane Foam Carpet Padding (09 68 16 00-0002)		
09 68 16 00-0007 SY 1/4" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	10.91	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.12	
For >400 To 600, Deduct	-0.19	
For >600 To 900, Deduct	-0.38	
For >900 To 1,500, Deduct	-0.58	
For >1,500 To 2,200, Deduct	-0.86	
For >2,200 To 3,500, Deduct	-1.13	
For >3,500, Deduct	-1.40	

**09 Finishes**

**09 60 Flooring**

**09 68 Carpeting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0008	SY		5/16" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	11.43	3.09
			For Up To 15, Add	0.94	
			For >15 To 33, Add	0.47	
			For >200 To 400, Deduct	-0.13	
			For >400 To 600, Deduct	-0.20	
			For >600 To 900, Deduct	-0.41	
			For >900 To 1,500, Deduct	-0.61	
			For >1,500 To 2,200, Deduct	-0.91	
			For >2,200 To 3,500, Deduct	-1.19	
			For >3,500, Deduct	-1.48	
09 68 16 00-0009	SY		3/8" Thick, 5.5 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	9.01	3.09
			For Up To 15, Add	0.94	
			For >15 To 33, Add	0.47	
			For >200 To 400, Deduct	-0.09	
			For >400 To 600, Deduct	-0.13	
			For >600 To 900, Deduct	-0.29	
			For >900 To 1,500, Deduct	-0.44	
			For >1,500 To 2,200, Deduct	-0.67	
			For >2,200 To 3,500, Deduct	-0.89	
			For >3,500, Deduct	-1.12	
09 68 16 00-0010	SY		3/8" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	11.08	3.09
			For Up To 15, Add	0.94	
			For >15 To 33, Add	0.47	
			For >200 To 400, Deduct	-0.13	
			For >400 To 600, Deduct	-0.19	
			For >600 To 900, Deduct	-0.39	
			For >900 To 1,500, Deduct	-0.59	
			For >1,500 To 2,200, Deduct	-0.87	
			For >2,200 To 3,500, Deduct	-1.15	
			For >3,500, Deduct	-1.43	
09 68 16 00-0011	SY		7/16" Thick, 5.5 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	11.08	3.09
			For Up To 15, Add	0.94	
			For >15 To 33, Add	0.47	
			For >200 To 400, Deduct	-0.13	
			For >400 To 600, Deduct	-0.19	
			For >600 To 900, Deduct	-0.39	
			For >900 To 1,500, Deduct	-0.59	
			For >1,500 To 2,200, Deduct	-0.87	
			For >2,200 To 3,500, Deduct	-1.15	
			For >3,500, Deduct	-1.43	
09 68 16 00-0012	SY		7/16" Thick, 6 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	11.08	3.09
			For Up To 15, Add	0.94	
			For >15 To 33, Add	0.47	
			For >200 To 400, Deduct	-0.13	
			For >400 To 600, Deduct	-0.19	
			For >600 To 900, Deduct	-0.39	
			For >900 To 1,500, Deduct	-0.59	
			For >1,500 To 2,200, Deduct	-0.87	
			For >2,200 To 3,500, Deduct	-1.15	
			For >3,500, Deduct	-1.43	
09 68 16 00-0013	SY		7/16" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	12.31	3.09
			For Up To 15, Add	0.94	
			For >15 To 33, Add	0.47	
			For >200 To 400, Deduct	-0.15	
			For >400 To 600, Deduct	-0.23	
			For >600 To 900, Deduct	-0.45	
			For >900 To 1,500, Deduct	-0.67	
			For >1,500 To 2,200, Deduct	-1.00	
			For >2,200 To 3,500, Deduct	-1.30	
			For >3,500, Deduct	-1.61	
09 68 16 00-0014	SY		1/2" Thick, 5.5 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	10.97	3.09
			For Up To 15, Add	0.94	
			For >15 To 33, Add	0.47	
			For >200 To 400, Deduct	-0.13	
			For >400 To 600, Deduct	-0.19	
			For >600 To 900, Deduct	-0.38	
			For >900 To 1,500, Deduct	-0.58	
			For >1,500 To 2,200, Deduct	-0.86	
			For >2,200 To 3,500, Deduct	-1.14	
			For >3,500, Deduct	-1.41	
09 68 16 00-0015	SY		1/2" Thick, 6 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	11.37	3.09
			For Up To 15, Add	0.94	
			For >15 To 33, Add	0.47	
			For >200 To 400, Deduct	-0.13	
			For >400 To 600, Deduct	-0.20	
			For >600 To 900, Deduct	-0.40	
			For >900 To 1,500, Deduct	-0.61	
			For >1,500 To 2,200, Deduct	-0.90	
			For >2,200 To 3,500, Deduct	-1.19	
			For >3,500, Deduct	-1.47	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Flooring	09 60	
Carpeting	09 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0016 SY 1/2" Thick, 8 LB/CF Bonded (Rebond) Polyurethane Foam Carpet Padding.....	12.83	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.16	
For >400 To 600, Deduct	-0.24	
For >600 To 900, Deduct	-0.48	
For >900 To 1,500, Deduct	-0.71	
For >1,500 To 2,200, Deduct	-1.05	
For >2,200 To 3,500, Deduct	-1.37	
For >3,500, Deduct	-1.69	
<b>09 68 16 00-0017 Froth Polyurethane Foam Carpet Padding (09 68 16 00-0002)</b>		
09 68 16 00-0018 SY 0.175" Thick, 16 LB/CF Froth Polyurethane Foam Rubber Carpet Padding.....	18.55	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.28	
For >400 To 600, Deduct	-0.42	
For >600 To 900, Deduct	-0.76	
For >900 To 1,500, Deduct	-1.11	
For >1,500 To 2,200, Deduct	-1.62	
For >2,200 To 3,500, Deduct	-2.08	
For >3,500, Deduct	-2.55	
09 68 16 00-0019 SY 0.250" Thick, 12 LB/CF Froth Polyurethane Foam Rubber Carpet Padding.....	20.70	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.32	
For >400 To 600, Deduct	-0.48	
For >600 To 900, Deduct	-0.87	
For >900 To 1,500, Deduct	-1.26	
For >1,500 To 2,200, Deduct	-1.84	
For >2,200 To 3,500, Deduct	-2.35	
For >3,500, Deduct	-2.87	
09 68 16 00-0020 SY 0.250" Thick, 16 LB/CF Froth Polyurethane Foam Rubber Carpet Padding.....	22.36	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.35	
For >400 To 600, Deduct	-0.53	
For >600 To 900, Deduct	-0.95	
For >900 To 1,500, Deduct	-1.38	
For >1,500 To 2,200, Deduct	-2.00	
For >2,200 To 3,500, Deduct	-2.56	
For >3,500, Deduct	-3.12	
<b>09 68 16 00-0021 Waffle Rubber Carpet Padding (09 68 16 00-0002)</b>		
09 68 16 00-0022 SY 3/8" Thick, 90 OZ/SY Waffle Rubber Carpet Padding .....	21.28	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.33	
For >400 To 600, Deduct	-0.50	
For >600 To 900, Deduct	-0.90	
For >900 To 1,500, Deduct	-1.30	
For >1,500 To 2,200, Deduct	-1.89	
For >2,200 To 3,500, Deduct	-2.43	
For >3,500, Deduct	-2.96	
<b>09 68 16 00-0023 Flat Sponge Rubber Carpet Padding (09 68 16 00-0002)</b>		
09 68 16 00-0024 SY 0.156" Thick, 62 OZ/SY Flat Sponge Rubber Carpet Padding .....	12.95	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.17	
For >400 To 600, Deduct	-0.25	
For >600 To 900, Deduct	-0.48	
For >900 To 1,500, Deduct	-0.72	
For >1,500 To 2,200, Deduct	-1.06	
For >2,200 To 3,500, Deduct	-1.38	
For >3,500, Deduct	-1.71	
09 68 16 00-0025 SY 0.250" Thick, 68 OZ/SY Flat Sponge Rubber Carpet Padding .....	13.83	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.18	
For >400 To 600, Deduct	-0.27	
For >600 To 900, Deduct	-0.53	
For >900 To 1,500, Deduct	-0.78	
For >1,500 To 2,200, Deduct	-1.15	
For >2,200 To 3,500, Deduct	-1.49	
For >3,500, Deduct	-1.84	

**09 Finishes**

**09 60 Flooring**

**09 68 Carpeting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0026	SY		0.250" Thick, 80 OZ/SY Flat Sponge Rubber Carpet Padding.....	14.48	3.09
			<i>For Up To 15, Add</i>	0.94	
			<i>For &gt;15 To 33, Add</i>	0.47	
			<i>For &gt;200 To 400, Deduct</i>	-0.20	
			<i>For &gt;400 To 600, Deduct</i>	-0.29	
			<i>For &gt;600 To 900, Deduct</i>	-0.56	
			<i>For &gt;900 To 1,500, Deduct</i>	-0.83	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-1.21	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-1.58	
			<i>For &gt;3,500, Deduct</i>	-1.94	
09 68 16 00-0027	SY		0.250" Thick, 100 OZ/SY Flat Sponge Rubber Carpet Padding.....	16.52	3.09
			<i>For Up To 15, Add</i>	0.94	
			<i>For &gt;15 To 33, Add</i>	0.47	
			<i>For &gt;200 To 400, Deduct</i>	-0.24	
			<i>For &gt;400 To 600, Deduct</i>	-0.35	
			<i>For &gt;600 To 900, Deduct</i>	-0.66	
			<i>For &gt;900 To 1,500, Deduct</i>	-0.97	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-1.42	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-1.83	
			<i>For &gt;3,500, Deduct</i>	-2.24	
09 68 16 00-0028	SY		0.370" Thick, 100 OZ/SY Flat Sponge Rubber Carpet Padding.....	16.69	3.09
			<i>For Up To 15, Add</i>	0.94	
			<i>For &gt;15 To 33, Add</i>	0.47	
			<i>For &gt;200 To 400, Deduct</i>	-0.24	
			<i>For &gt;400 To 600, Deduct</i>	-0.36	
			<i>For &gt;600 To 900, Deduct</i>	-0.67	
			<i>For &gt;900 To 1,500, Deduct</i>	-0.98	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-1.43	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-1.85	
			<i>For &gt;3,500, Deduct</i>	-2.27	
<b>09 68 16 00-0029</b>			<b>Synthetic Fiber Carpet Padding</b> <small>(09 68 16 00-0002)</small>		
09 68 16 00-0030	SY		0.235" Thick, 20 OZ/SY Synthetic Fiber Carpet Padding.....	6.40	3.09
			<i>For Up To 15, Add</i>	0.94	
			<i>For &gt;15 To 33, Add</i>	0.47	
			<i>For &gt;200 To 400, Deduct</i>	-0.03	
			<i>For &gt;400 To 600, Deduct</i>	-0.05	
			<i>For &gt;600 To 900, Deduct</i>	-0.16	
			<i>For &gt;900 To 1,500, Deduct</i>	-0.26	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-0.41	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-0.57	
			<i>For &gt;3,500, Deduct</i>	-0.73	
09 68 16 00-0031	SY		0.235" Thick, 24 OZ/SY Synthetic Fiber Carpet Padding.....	7.74	3.09
			<i>For Up To 15, Add</i>	0.94	
			<i>For &gt;15 To 33, Add</i>	0.47	
			<i>For &gt;200 To 400, Deduct</i>	-0.06	
			<i>For &gt;400 To 600, Deduct</i>	-0.09	
			<i>For &gt;600 To 900, Deduct</i>	-0.22	
			<i>For &gt;900 To 1,500, Deduct</i>	-0.35	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-0.54	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-0.73	
			<i>For &gt;3,500, Deduct</i>	-0.93	
09 68 16 00-0032	SY		0.275" Thick, 28 OZ/SY Synthetic Fiber Carpet Padding.....	7.13	3.09
			<i>For Up To 15, Add</i>	0.94	
			<i>For &gt;15 To 33, Add</i>	0.47	
			<i>For &gt;200 To 400, Deduct</i>	-0.05	
			<i>For &gt;400 To 600, Deduct</i>	-0.07	
			<i>For &gt;600 To 900, Deduct</i>	-0.19	
			<i>For &gt;900 To 1,500, Deduct</i>	-0.31	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-0.48	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-0.66	
			<i>For &gt;3,500, Deduct</i>	-0.84	
09 68 16 00-0033	SY		0.300" Thick, 32 OZ/SY Synthetic Fiber Carpet Padding.....	7.36	3.09
			<i>For Up To 15, Add</i>	0.94	
			<i>For &gt;15 To 33, Add</i>	0.47	
			<i>For &gt;200 To 400, Deduct</i>	-0.05	
			<i>For &gt;400 To 600, Deduct</i>	-0.08	
			<i>For &gt;600 To 900, Deduct</i>	-0.20	
			<i>For &gt;900 To 1,500, Deduct</i>	-0.33	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-0.50	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-0.69	
			<i>For &gt;3,500, Deduct</i>	-0.87	
09 68 16 00-0034	SY		0.350" Thick, 40 OZ/SY Synthetic Fiber Carpet Padding.....	8.74	3.09
			<i>For Up To 15, Add</i>	0.94	
			<i>For &gt;15 To 33, Add</i>	0.47	
			<i>For &gt;200 To 400, Deduct</i>	-0.08	
			<i>For &gt;400 To 600, Deduct</i>	-0.12	
			<i>For &gt;600 To 900, Deduct</i>	-0.27	
			<i>For &gt;900 To 1,500, Deduct</i>	-0.42	
			<i>For &gt;1,500 To 2,200, Deduct</i>	-0.64	
			<i>For &gt;2,200 To 3,500, Deduct</i>	-0.86	
			<i>For &gt;3,500, Deduct</i>	-1.08	

09 68 16 00-0035 Double Stick Synthetic Fiber Carpet Padding (09 68 16 00-0002)



<b>Finishes</b>	<b>09</b>	<b>09</b>
Flooring	09 60	
Carpeting	09 68	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0036 SY 0.300" Thick, 32 OZ/SY Double Stick Synthetic Fiber Carpet Padding .....	9.16	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.09	
For >400 To 600, Deduct	-0.13	
For >600 To 900, Deduct	-0.29	
For >900 To 1,500, Deduct	-0.45	
For >1,500 To 2,200, Deduct	-0.68	
For >2,200 To 3,500, Deduct	-0.91	
For >3,500, Deduct	-1.14	
09 68 16 00-0037 SY 0.375" Thick, 40 OZ/SY Double Stick Synthetic Fiber Carpet Padding .....	10.24	3.09
For Up To 15, Add	0.94	
For >15 To 33, Add	0.47	
For >200 To 400, Deduct	-0.11	
For >400 To 600, Deduct	-0.17	
For >600 To 900, Deduct	-0.35	
For >900 To 1,500, Deduct	-0.53	
For >1,500 To 2,200, Deduct	-0.79	
For >2,200 To 3,500, Deduct	-1.05	
For >3,500, Deduct	-1.30	
<b>09 68 16 00-0038 Residential Broadloom Carpet</b> <small>(09 68 16)</small>		
Note: Includes tacks. See CSI section 09 68 16 00-0001 for padding.		
09 68 16 00-0039 SY 25 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet .....	40.94	8.25
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.58	
For Up To 15, Add	4.23	
For >15 To 33, Add	2.12	
For >200 To 400, Deduct	-0.40	
For >400 To 600, Deduct	-0.59	
For >600 To 900, Deduct	-1.31	
For >900, Deduct	-2.02	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0040 SY 30 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet .....	45.60	8.25
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.58	
For Up To 15, Add	4.23	
For >15 To 33, Add	2.12	
For >200 To 400, Deduct	-0.49	
For >400 To 600, Deduct	-0.73	
For >600 To 900, Deduct	-1.54	
For >900, Deduct	-2.35	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0041 SY 32 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet .....	52.00	8.25
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.58	
For Up To 15, Add	4.23	
For >15 To 33, Add	2.12	
For >200 To 400, Deduct	-0.62	
For >400 To 600, Deduct	-0.92	
For >600 To 900, Deduct	-1.86	
For >900, Deduct	-2.79	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0042 SY 34 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet .....	58.68	8.25
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.58	
For Up To 15, Add	4.23	
For >15 To 33, Add	2.12	
For >200 To 400, Deduct	-0.75	
For >400 To 600, Deduct	-1.13	
For >600 To 900, Deduct	-2.19	
For >900, Deduct	-3.26	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0043 SY 40 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet .....	59.85	8.25
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.58	
For Up To 15, Add	4.23	
For >15 To 33, Add	2.12	
For >200 To 400, Deduct	-0.77	
For >400 To 600, Deduct	-1.16	
For >600 To 900, Deduct	-2.25	
For >900, Deduct	-3.34	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0044 SY 45 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet .....	61.89	9.08
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.79	
For Up To 15, Add	4.52	
For >15 To 33, Add	2.26	
For >200 To 400, Deduct	-0.79	
For >400 To 600, Deduct	-1.18	
For >600 To 900, Deduct	-2.30	
For >900, Deduct	-3.43	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0045 SY 48 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet .....	63.88	9.08
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.79	
For Up To 15, Add	4.52	
For >15 To 33, Add	2.26	
For >200 To 400, Deduct	-0.83	
For >400 To 600, Deduct	-1.24	
For >600 To 900, Deduct	-2.40	
For >900, Deduct	-3.57	
For Installation On Stairs, Each Riser, Add	6.00	

**09 Finishes****09 60 Flooring****09 68 Carpeting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0046 SY 50 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	68.83	9.08
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.79	
For Up To 15, Add	4.52	
For >15 To 33, Add	2.26	
For >200 To 400, Deduct	-0.92	
For >400 To 600, Deduct	-1.39	
For >600 To 900, Deduct	-2.65	
For >900, Deduct	-3.91	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0047 SY 60 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	69.41	9.08
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.79	
For Up To 15, Add	4.52	
For >15 To 33, Add	2.26	
For >200 To 400, Deduct	-0.94	
For >400 To 600, Deduct	-1.40	
For >600 To 900, Deduct	-2.68	
For >900, Deduct	-3.96	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0048 SY 65 Ounce, Medium Traffic, Residential, Nylon Broadloom Carpet.....	71.74	9.08
For Glued Down Material Instead Of Tack Strips (Includes Scarify Floor Area And Appropriate Backing), Add	3.79	
For Up To 15, Add	4.52	
For >15 To 33, Add	2.26	
For >200 To 400, Deduct	-0.98	
For >400 To 600, Deduct	-1.47	
For >600 To 900, Deduct	-2.80	
For >900, Deduct	-4.12	
For Installation On Stairs, Each Riser, Add	6.00	
<b>09 68 16 00-0049 Commercial Broadloom Carpet</b> <small>(09 68 16)</small>		
Note: Level-loop pile or textured-loop pile broadloom carpet.		
<b>09 68 16 00-0050 Non-Patterned Broadloom Carpet</b> <small>(09 68 16 00-0049)</small>		
09 68 16 00-0051 SY 22 Ounce, Medium Traffic, Non-Patterned, Nylon Broadloom Carpet .....	53.62	30.35
For Up To 15, Add	4.05	
For >15 To 33, Add	2.02	
For >200 To 400, Deduct	-0.67	
For >400 To 600, Deduct	-1.00	
For >600 To 900, Deduct	-1.97	
For >900, Deduct	-2.94	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0052 SY 24 Ounce, Medium Traffic, Non-Patterned, Nylon Broadloom Carpet .....	53.62	30.35
For Up To 15, Add	4.05	
For >15 To 33, Add	2.02	
For >200 To 400, Deduct	-0.67	
For >400 To 600, Deduct	-1.00	
For >600 To 900, Deduct	-1.97	
For >900, Deduct	-2.94	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0053 SY 26 Ounce, Medium Traffic, Non-Patterned, Nylon Broadloom Carpet .....	53.62	30.35
For Up To 15, Add	4.05	
For >15 To 33, Add	2.02	
For >200 To 400, Deduct	-0.67	
For >400 To 600, Deduct	-1.00	
For >600 To 900, Deduct	-1.97	
For >900, Deduct	-2.94	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0054 SY 28 Ounce, Medium Traffic, Non-Patterned, Nylon Broadloom Carpet .....	58.12	32.88
For Up To 15, Add	4.38	
For >15 To 33, Add	2.19	
For >200 To 400, Deduct	-0.72	
For >400 To 600, Deduct	-1.09	
For >600 To 900, Deduct	-2.14	
For >900, Deduct	-3.19	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0055 SY 30 Ounce, Medium Traffic, Non-Patterned, Nylon Broadloom Carpet .....	59.14	32.88
For Up To 15, Add	4.38	
For >15 To 33, Add	2.19	
For >200 To 400, Deduct	-0.74	
For >400 To 600, Deduct	-1.12	
For >600 To 900, Deduct	-2.19	
For >900, Deduct	-3.26	
For Cut Pile Carpet, Add	1.50	
For Moisture Barrier Backing, Add	3.50	
For Installation On Stairs, Each Riser, Add	6.00	



		<b>Finishes</b>	<b>09</b>
		Flooring	09 60
		Carpeting	09 68

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0056	SY		32 Ounce, Medium Traffic, Non-Patterned, Nylon Broadloom Carpet .....	59.32	32.88
			<i>For Up To 15, Add</i>	4.38	
			<i>For &gt;15 To 33, Add</i>	2.19	
			<i>For &gt;200 To 400, Deduct</i>	-0.75	
			<i>For &gt;400 To 600, Deduct</i>	-1.12	
			<i>For &gt;600 To 900, Deduct</i>	-2.20	
			<i>For &gt;900, Deduct</i>	-3.28	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0057	SY		34 Ounce, Medium Traffic, Non-Patterned, Nylon Broadloom Carpet .....	65.07	35.40
			<i>For Up To 15, Add</i>	4.72	
			<i>For &gt;15 To 33, Add</i>	2.36	
			<i>For &gt;200 To 400, Deduct</i>	-0.83	
			<i>For &gt;400 To 600, Deduct</i>	-1.24	
			<i>For &gt;600 To 900, Deduct</i>	-2.43	
			<i>For &gt;900, Deduct</i>	-3.61	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0058	SY		36 Ounce, Heavy Traffic, Non-Patterned, Nylon Broadloom Carpet .....	65.81	35.40
			<i>For Up To 15, Add</i>	4.72	
			<i>For &gt;15 To 33, Add</i>	2.36	
			<i>For &gt;200 To 400, Deduct</i>	-0.84	
			<i>For &gt;400 To 600, Deduct</i>	-1.27	
			<i>For &gt;600 To 900, Deduct</i>	-2.46	
			<i>For &gt;900, Deduct</i>	-3.66	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Cut And Loop Pile Combination Or Tip Shear Carpet, Add</i>	2.00	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0059	SY		38 Ounce, Heavy Traffic, Non-Patterned, Nylon Broadloom Carpet .....	66.71	35.40
			<i>For Up To 15, Add</i>	4.72	
			<i>For &gt;15 To 33, Add</i>	2.36	
			<i>For &gt;200 To 400, Deduct</i>	-0.86	
			<i>For &gt;400 To 600, Deduct</i>	-1.29	
			<i>For &gt;600 To 900, Deduct</i>	-2.51	
			<i>For &gt;900, Deduct</i>	-3.73	
			<i>For Cut Pile Carpet, Add</i>	1.50	
			<i>For Cut And Loop Pile Combination Or Tip Shear Carpet, Add</i>	2.00	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
<b>09 68 16 00-0060</b>			<b>Patterned Broadloom Carpet</b> <small>(09 68 16 00-0049)</small>		
			Note: Patterned carpet has a definitive repeating pattern as defined by the manufacturer.		
09 68 16 00-0061	SY		22 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet .....	56.15	30.35
			<i>For Up To 15, Add</i>	4.45	
			<i>For &gt;15 To 33, Add</i>	2.23	
			<i>For &gt;200 To 400, Deduct</i>	-0.68	
			<i>For &gt;400 To 600, Deduct</i>	-1.02	
			<i>For &gt;600 To 900, Deduct</i>	-2.03	
			<i>For &gt;900, Deduct</i>	-3.04	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0062	SY		24 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet .....	56.15	30.35
			<i>For Up To 15, Add</i>	4.45	
			<i>For &gt;15 To 33, Add</i>	2.23	
			<i>For &gt;200 To 400, Deduct</i>	-0.68	
			<i>For &gt;400 To 600, Deduct</i>	-1.02	
			<i>For &gt;600 To 900, Deduct</i>	-2.03	
			<i>For &gt;900, Deduct</i>	-3.04	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0063	SY		26 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet .....	56.15	30.35
			<i>For Up To 15, Add</i>	4.45	
			<i>For &gt;15 To 33, Add</i>	2.23	
			<i>For &gt;200 To 400, Deduct</i>	-0.68	
			<i>For &gt;400 To 600, Deduct</i>	-1.02	
			<i>For &gt;600 To 900, Deduct</i>	-2.03	
			<i>For &gt;900, Deduct</i>	-3.04	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	
09 68 16 00-0064	SY		28 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet .....	60.85	32.88
			<i>For Up To 15, Add</i>	4.82	
			<i>For &gt;15 To 33, Add</i>	2.41	
			<i>For &gt;200 To 400, Deduct</i>	-0.73	
			<i>For &gt;400 To 600, Deduct</i>	-1.10	
			<i>For &gt;600 To 900, Deduct</i>	-2.20	
			<i>For &gt;900, Deduct</i>	-3.30	
			<i>For Moisture Barrier Backing, Add</i>	3.50	
			<i>For Installation On Stairs, Each Riser, Add</i>	6.00	

**09 Finishes****09 60 Flooring****09 68 Carpeting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0065	SY		30 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet.....	61.89	32.88
			For Up To 15, Add	4.82	
			For >15 To 33, Add	2.41	
			For >200 To 400, Deduct	-0.76	
			For >400 To 600, Deduct	-1.13	
			For >600 To 900, Deduct	-2.25	
			For >900, Deduct	-3.37	
			For Cut Pile Carpet, Add	1.50	
			For Moisture Barrier Backing, Add	3.50	
			For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0066	SY		32 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet.....	62.07	32.88
			For Up To 15, Add	4.82	
			For >15 To 33, Add	2.41	
			For >200 To 400, Deduct	-0.76	
			For >400 To 600, Deduct	-1.14	
			For >600 To 900, Deduct	-2.26	
			For >900, Deduct	-3.38	
			For Cut Pile Carpet, Add	1.50	
			For Moisture Barrier Backing, Add	3.50	
			For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0067	SY		34 Ounce, Medium Traffic, Patterned, Nylon Broadloom Carpet.....	68.07	35.40
			For Up To 15, Add	5.19	
			For >15 To 33, Add	2.60	
			For >200 To 400, Deduct	-0.84	
			For >400 To 600, Deduct	-1.26	
			For >600 To 900, Deduct	-2.49	
			For >900, Deduct	-3.73	
			For Cut Pile Carpet, Add	1.50	
			For Moisture Barrier Backing, Add	3.50	
			For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0068	SY		36 Ounce, Heavy Traffic, Patterned, Nylon Broadloom Carpet.....	68.82	35.40
			For Up To 15, Add	5.19	
			For >15 To 33, Add	2.60	
			For >200 To 400, Deduct	-0.86	
			For >400 To 600, Deduct	-1.29	
			For >600 To 900, Deduct	-2.53	
			For >900, Deduct	-3.78	
			For Cut Pile Carpet, Add	1.50	
			For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
			For Moisture Barrier Backing, Add	3.50	
			For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0069	SY		38 Ounce, Heavy Traffic, Patterned, Nylon Broadloom Carpet.....	69.72	35.40
			For Up To 15, Add	5.19	
			For >15 To 33, Add	2.60	
			For >200 To 400, Deduct	-0.88	
			For >400 To 600, Deduct	-1.31	
			For >600 To 900, Deduct	-2.58	
			For >900, Deduct	-3.84	
			For Cut Pile Carpet, Add	1.50	
			For Cut And Loop Pile Combination Or Tip Shear Carpet, Add	2.00	
			For Moisture Barrier Backing, Add	3.50	
			For Installation On Stairs, Each Riser, Add	6.00	
09 68 16 00-0070			<b>Indoor/Outdoor Carpet</b> (09 68 16) Note: Includes waterproof glue.		
09 68 16 00-0071	SY		Nylon Indoor/Outdoor Carpet.....	54.61	6.19
09 68 16 00-0072	SY		Ozite Indoor/Outdoor Carpet.....	42.41	6.19
09 68 16 00-0073			<b>Carpet Accessories</b> (09 68 16)		
09 68 16 00-0074	LF		Metal Carpet Saddle Strip, Up To 4" Wide.....	7.48	0.84
09 68 16 00-0075			<b>Removal And Reinstallation Of Carpet And Pad</b> (09 68 16) Note: Includes storage, cleaning and supply materials.		
09 68 16 00-0076	SY		Removal And Reinstallation Of Carpet And Pad.....	42.70	
09 68 16 00-0077			<b>Carpeting Support Functions</b> (09 68 16)		
09 68 16 00-0078			<b>Relocate Partitions, Modular Work Stations</b> (09 68 16 00-0077) Note: Includes disassembly and reassembly of work station. Excludes electrical disconnection or reconnection.		
09 68 16 00-0079	EA		Relocate Modular Work Station.....	295.30	
09 68 16 00-0080			<b>Installation Of Owner Provided Broadloom Carpet</b> (09 68 16)		
09 68 16 00-0081	SY		Up To 24 Oz, Installation Of Owner Provided Broadloom Carpet.....	18.00	
			Note: Includes adhesive for glue-down or tack strip for padded installations.		
			For Up To 15, Add	3.52	
			For >15 To 33, Add	1.76	
09 68 16 00-0082	SY		>24 To 34 Oz, Installation Of Owner Provided Broadloom Carpet.....	20.93	
			Note: Includes adhesive for glue-down or tack strip for padded installations.		
			For Up To 15, Add	4.11	
			For >15 To 33, Add	2.05	



		<b>Finishes</b>	<b>09</b>
		Flooring	09 60
		Carpeting	09 68

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 68	16 00-0083	SY	>34 Oz. Installation Of Owner Provided Broadloom Carpet.....	25.04	
			Note: Includes adhesive for glue-down or tack strip for padded installations.		
			For Up To 15, Add	4.93	
			For >15 To 33, Add	2.46	

**09 69 Access Flooring** (09 60)

**09 69 13 Rigid-Grid Access Flooring** (09 69)

**09 69 13 00-0001 Panels, No Covering** (09 69 13)

09 69	13 00-0002	SF	2' x 2' Panels - No Covering Access And Pedestal Floors.....	19.33	0.84
			For Carpet Covering, Add	2.77	
			For Vinyl Floor Covering, Add	1.91	
09 69	13 00-0003	SF	2' x 2' Perforated Panels Access And Pedestal Floors .....	37.01	0.84
			For Carpet Covering, Add	2.77	
			For Vinyl Floor Covering, Add	1.91	
09 69	13 00-0004	SF	Tate 1250AS Panel Cover UTP Designer Plus Color Raf Blue 7153T .....	34.43	0.92
09 69	13 00-0005	SF	Tate 1250AS Panel Cover UTP Designer Plus Color Sage Brown 7777T .....	34.43	0.92
09 69	13 00-0006	SF	Tate 1250AS Panel Cover UTP Designer Plus Color Moodance 6808.....	34.43	0.92
09 69	13 00-0007	SF	Tate 1250AS Panel Cover UTP Designer Plus Color Mosaic 6280.....	34.43	0.92
09 69	13 00-0008	SF	Tate 1250AS Panel Cover HPL 1/8" Nevamar ST2-2 Beige Star/Brown Trim .....	32.52	0.92
09 69	13 00-0009	SF	Tate 1250AS Panel Cover HPL 1/8" Nevamar ST6-1 Gray Star/Black Trim.....	32.52	0.92
09 69	13 00-0010	SF	Tate Concore 1500 Panel Cover UTP Designer Plus Color Raf Blue 7153T.....	36.82	0.92
09 69	13 00-0011	SF	Tate Concore 1500 Panel Cover UTP Designer Plus Color Sage Brown 7777T .....	36.82	0.92
09 69	13 00-0012	SF	Tate Concore 1500 Panel Cover UTP Designer Plus Color Moodance 6808.....	36.82	0.92
09 69	13 00-0013	SF	Tate Concore 1500 Panel Cover UTP Designer Plus Color Mosaic 6280 .....	36.82	0.92
09 69	13 00-0014	SF	Tate Concore 1500 Panel Cover HPL 1/8" Nevamar ST-2 Beige Star/Brown Trim .....	34.90	0.92
09 69	13 00-0015	SF	Tate Concore 1500 Panel Cover HPL 1/8" Nevamar ST6-1 Grey Star/Black Trim .....	34.90	0.92
09 69	13 00-0016	SF	Tate 1250AS Perforated 25% O/A Cover 1/8 " Nevamar HPL ST2-2 Beige Star Trim .....	44.42	0.92
09 69	13 00-0017	SF	Tate 1250AS Perforated 25% O/A Cover 1/8 " Nevamar HPL ST6-1 Gray Star Trim .....	44.42	0.92

**09 69 13 00-0018 Pedestals** (09 69 13)

09 69	13 00-0019	EA	6" To 12" Finished Floor Height, Pedestal Assembly.....	38.94	4.22
09 69	13 00-0020	EA	8" To 12" Finished Floor Height, Pedestal Assembly.....	41.33	4.22
09 69	13 00-0021	EA	18" To 24" Finished Floor Height, Pedestal Assembly.....	42.53	4.22
09 69	13 00-0022	EA	30" To 36" Finished Floor Height, Pedestal Assembly.....	46.86	4.22

**09 69 13 00-0023 Stringers** (09 69 13)

09 69	13 00-0024	EA	2' Bolted Stringers, Access And Pedestal Floors.....	18.62	5.06
09 69	13 00-0025	EA	4' Bolted Stringers, Access And Pedestal Floors.....	33.18	7.60
09 69	13 00-0026	EA	6' Bolted Stringers, Access And Pedestal Floors.....	52.02	12.66

**09 69 13 00-0027 Understructure** (09 69 13)

09 69	13 00-0028	SF	Standard Bolted Stringer Understructure 30" Or 36" Finished Floor Height .....	8.69	1.26
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**09 69 53 Access Flooring Accessories** (09 69)

**09 69 53 00-0001 Accessories** (09 69 53)

09 69	53 00-0002	LF	Accessories, Handrail Access And Pedestal Floors .....	68.60	5.90
09 69	53 00-0003	LF	Accessories, Fascia Plate Access And Pedestal Floors .....	25.57	5.90
09 69	53 00-0004	EA	Machine Cutouts.....	210.33	
09 69	53 00-0005	SF	Hammered Aluminum Finish Fascia.....	48.48	2.78
			Note: Includes trim angles and hardware (8", 12", 18", 24").		
09 69	53 00-0006	EA	Cut Hole In Raised Floor And Trim With Black 1/2" Trim Material .....	45.38	
09 69	53 00-0007	EA	Cut Round Hole In Raised Floor And Trim Carpet Install 4" Plastic Insert (Gromtec#GT003).....	45.38	
09 69	53 00-0008	EA	Flush Mounted Electrical Box (Including Cutting Hole Trim Carpet) P/N Telo-7018-4.....	218.53	10.55
09 69	53 00-0009	EA	Flush Mounted Telephone Box (Grey/Black/Communications) .....	150.19	10.55
			Note: Includes cut hole.		
09 69	53 00-0010	EA	Flush Mounted Electrical Box (In Existing Hole) P/N Telo 7018-4 .....	218.53	10.55
09 69	53 00-0011	EA	Flush Mounted Telephone Box (Grey/Black/Communications) (In Existing Hole) P/N Telo-7018-2 .....	116.44	1.69

**09 69 53 00-0012 Final Cleaning For Computer Room Raised Floor System** (09 69 53)

			Note: Includes wipe dirt/dust from stringers and raised floor beneath raised floor. For new or existing systems.		
09 69	53 00-0013	SF	Vacuum Raised Floor Carpet Panel, Wipe Dirt/Dust From Stringers And Floor Beneath Raised Floor.....	3.06	
09 69	53 00-0014	SF	Vacuum/Shampoo Raised Floor Carpet Panel, Wipe Dirt/Dust From Stringers And Floor Beneath.....	3.20	
09 69	53 00-0015	SF	Vacuum/Wet Mop Clean Raised Floor HPL Panel Wipe Dirt/Dust Stringers And Raised Floor.....	3.15	

**09 70 Wall Finishes** (09)

**09 72 Wall Coverings** (09 70)

**09 72 13 Cork Wall Coverings** (09 72)

**09 72 13 00-0001 Cork Wall Covering** (09 72 13)

**09 Finishes**  
**09 70 Wall Finishes**  
**09 72 Wall Coverings**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 72 13 00-0002 SF 1/8" Cork Wall Covering.....	5.57	0.98
09 72 13 00-0003 SF 1/4" Cork Wall Covering.....	6.81	0.98
09 72 13 00-0004 SF 1/2" Cork Wall Covering.....	7.79	0.98
09 72 13 00-0005 SF 3/4" Cork Wall Covering.....	10.67	0.98
<b>09 72 16 Vinyl-Coated Fabric Wall Coverings (09 72)</b>		
<b>09 72 16 13 Flexible Vinyl Wall Coverings (09 72 16)</b>		
<b>09 72 16 13-0001 Vinyl Wall Coverings (09 72 16 13)</b>		
Note: Includes wall preparation adhesive, and sizing compound. Demolition includes the removal of wall covering and adhesive.		
09 72 16 13-0002 SF 7-10 Oz/SY Vinyl Wall Covering .....	3.46	0.98
For Owner Furnished Material, Deduct	-1.93	
09 72 16 13-0003 SF 11-14 Oz/SY Vinyl Wall Covering .....	4.44	0.98
For Owner Furnished Material, Deduct	-2.81	
09 72 16 13-0004 SF 15-19 Oz/SY Vinyl Wall Covering .....	5.16	0.98
For Owner Furnished Material, Deduct	-3.53	
09 72 16 13-0005 SF 20 To 25 Ounces/SY Vinyl Wall Covering.....	6.11	0.98
For Owner Furnished Material, Deduct	-4.06	
09 72 16 13-0006 SF 26-32 Oz/SY Vinyl Wall Covering .....	7.08	0.98
For Owner Furnished Material, Deduct	-4.94	
09 72 16 13-0007 SF 33-38 Oz/SY Vinyl Wall Covering .....	8.49	0.98
For Owner Furnished Material, Deduct	-6.25	
<b>09 72 23 Wallpapering (09 72)</b>		
<b>09 72 23 00-0001 Wallpaper Coverings (09 72 23)</b>		
Note: Includes wall preparation adhesive, and sizing compound. Demolition includes the removal of wall covering and adhesive.		
09 72 23 00-0002 SF Average Quality Wallpaper (Standard Grade) .....	2.23	1.30
09 72 23 00-0003 SF High Quality Wallpaper (Designer Grade).....	4.38	1.66
09 72 23 00-0004 SF Textured Paintable Paper Installed On Ceiling .....	3.64	2.46
<b>09 73 Wall Carpeting (09 70)</b>		
<b>09 73 00 00-0001 Carpet Wall Covering (09 73)</b>		
09 73 00 00-0002 SY 28 Ounce, Nylon Carpet Wall Covering .....	57.01	33.70
09 73 00 00-0003 SY 32 Ounce, Nylon Carpet Wall Covering .....	58.23	33.70
09 73 00 00-0004 SY 34 Ounce, Nylon Carpet Wall Covering .....	63.14	36.29
09 73 00 00-0005 SY 35 Ounce, Nylon Carpet Wall Covering .....	66.82	36.29
09 73 00 00-0006 SY 36 Ounce, Nylon Carpet Wall Covering .....	70.60	36.29
09 73 00 00-0007 SY 38 Ounce, Nylon Carpet Wall Covering .....	72.07	36.29
09 73 00 00-0008 SY 40 Ounce, Nylon Carpet Wall Covering .....	74.92	39.20
09 73 00 00-0009 SY 42 Ounce, Nylon Carpet Wall Covering .....	78.02	39.20
<b>09 74 Flexible Wood Sheets (09 70)</b>		
<b>09 74 16 Flexible Wood Veneers (09 74)</b>		
<b>09 74 16 00-0001 Flexible Wood Veneer (09 74 16)</b>		
09 74 16 00-0002 SF 1/32" Thick, Flexible Maple Wood Veneer .....	10.57	3.93
09 74 16 00-0003 SF 1/32" Thick, Flexible Oak Wood Veneer .....	10.75	3.93
09 74 16 00-0004 SF 1/32" Thick, Flexible Mahogany Wood Veneer .....	10.75	3.93
09 74 16 00-0005 SF 1/32" Thick, Flexible Birch Wood Veneer.....	10.92	3.93
09 74 16 00-0006 SF 1/32" Thick, Flexible Walnut Wood Veneer.....	11.77	3.93
09 74 16 00-0007 SF 1/32" Thick, Flexible Bamboo Wood Veneer.....	12.80	3.93
09 74 16 00-0008 SF 1/32" Thick, Flexible Fir Wood Veneer.....	14.00	3.93
<b>09 74 16 00-0009 Flexible Exotic Wood Veneer (09 74 16)</b>		
09 74 16 00-0010 SF 1/32" Thick, Flexible Exotic Wood Veneer .....	16.97	3.93
<b>09 77 Special Wall Surfacing (09 70)</b>		
<b>09 77 11 Special Wall Panels (09 77)</b>		
<b>09 77 11 00-0001 Corian Wall Panels (09 77 11)</b>		
<b>09 77 11 00-0002 Wall Panels (09 77 11 00-0001)</b>		
09 77 11 00-0003 SF 1/4" Corian Wall Panels, Sea Grass .....	45.33	6.35
For >500, Deduct	3.26	
09 77 11 00-0004 SF 1/4" Corian Wall Panels, Aqua.....	54.30	6.35
For >500, Deduct	4.16	
09 77 11 00-0005 SF 1/4" Corian Wall Panels, Everest.....	58.00	6.35
For >500, Deduct	4.53	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Wall Finishes	09 70	
Special Wall Surfacing	09 77	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 77 11 00-0006 Corian Corner Guards For Wall Panels <small>(09 77 11 00-0001)</small>		
09 77 11 00-0007 SF 1/2" Curved Corner Guard For Corian Wall Panels, Sea Grass .....	124.49	5.08
09 77 11 00-0008 SF 1/2" Curved Corner Guard For Corian Wall Panels, Aqua .....	134.42	5.08
09 77 11 00-0009 SF 1/2" Curved Corner Guard For Corian Wall Panels, Everest .....	121.54	5.08

**09 80 Acoustic Treatment** (09)

**09 81 Acoustic Insulation** (09 80)

**09 81 16 Acoustic Blanket Insulation** (09 81)

09 81 16 00-0001 Sound Attenuation Fire Blankets (SAFB) <small>(09 81 16)</small>		
Note: Mineral wool		
09 81 16 00-0002 2.5 PCF Density, Sound Attenuation Fire Blankets (SAFB) <small>(09 81 16 00-0001)</small>		
09 81 16 00-0003 SF 1-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....	2.16	0.38
09 81 16 00-0004 SF 2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....	2.32	0.38
09 81 16 00-0005 SF 2-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....	2.23	0.38
09 81 16 00-0006 SF 3" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....	2.72	0.38
09 81 16 00-0007 SF 3-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....	2.50	0.38
09 81 16 00-0008 SF 4" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....	2.64	0.38
09 81 16 00-0009 SF 5" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....	2.84	0.38
09 81 16 00-0010 SF 6" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....	3.06	0.38

09 81 16 00-0011 4 PCF Density, Sound Attenuation Fire Blankets (SAFB) <small>(09 81 16 00-0001)</small>		
09 81 16 00-0012 SF 1" Thick, 4 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB) .....	2.12	0.38

09 81 16 00-0013 Sound Attenuation Batts <small>(09 81 16)</small>		
Note: NoiseReducer® by Certainteed, Quitezone® by Owens Corning, Sound-Shield® by Johns Mansville.		
09 81 16 00-0014 SF 2-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.23	0.51
09 81 16 00-0015 SF 3-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.29	0.51
09 81 16 00-0016 SF 3-1/2" Thick, Kraft Faced Sound Attenuation Batt .....	1.49	0.51
09 81 16 00-0017 SF 5-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.66	0.51
09 81 16 00-0018 SF 5-1/2" Thick, Kraft Faced Sound Attenuation Batt .....	1.71	0.51
09 81 16 00-0019 SF 6-1/4" Thick, Unfaced Sound Attenuation Batt.....	1.70	0.51
09 81 16 00-0020 SF 6-1/4" Thick, Kraft Faced Sound Attenuation Batt .....	1.76	0.51

**09 84 Acoustic Room Components** (09 80)

**09 84 13 Fixed Sound-Absorptive Panels** (09 84)

09 84 13 00-0001 Sound Absorbing Panels And Attenuation Blankets <small>(09 84 13)</small>		
Note: No backs, 3" thick modular, ceiling or wall hung back. Excludes ceiling suspension systems and wall furring system. See CSI section 09 22 13 00-0000 for furring, 09 53 23 00-0000 for suspended ceiling support.		
09 84 13 00-0002 SF 3" Thick Perforated Steel Sound Absorbing Panel Painted, No Back With Fiberglass Or Mineral Filler.....	12.89	2.54
09 84 13 00-0003 SF 1" Thick Fiberglass Sound Absorbing Panels With Glass Cloth Face For Walls .....	18.92	2.54

09 84 13 00-0004 Sound Absorbing Acoustical Wall Panel System <small>(09 84 13)</small>		
09 84 13 00-0005 Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam) <small>(09 84 13 00-0004)</small>		
Note: Includes molding and mounting hardware for flush mount. All panels are 3/4" thick.		
09 84 13 00-0006 SF Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Tek-Wall).....	20.20	2.86
09 84 13 00-0007 SF Woven Fabric Covered, Fiberglass, Sound Absorbing Wall Panel System (Maharam Adorn) .....	24.44	2.86

09 84 13 00-0008 Sound Absorbing Panel, Eggcrate Style <small>(09 84 13)</small>		
Note: Ceiling or wall hung back.		
09 84 13 00-0009 SF 2" Thick Polyurethane Sound Wave (Eggcrate Style).....	11.82	
For Pyramid Style, Add	1.18	
09 84 13 00-0010 SF 3" Thick Polyurethane Sound Wave (Eggcrate Style).....	15.43	
For Pyramid Style, Add	1.18	
09 84 13 00-0011 SF 4" Thick Polyurethane Sound Wave (Eggcrate Style).....	19.90	
For Pyramid Style, Add	1.18	
09 84 13 00-0012 SF 2" Thick Melamine Sound Wave (Eggcrate Style) .....	15.04	
For Eggcrate Style With Hypalon Coating, Add	1.97	
For Pyramid Style, Add	2.05	
For Pyramid Style With Hypalon Coating, Add	4.02	
09 84 13 00-0013 SF 3" Thick Melamine Sound Wave (Eggcrate Style) .....	28.89	
For Eggcrate Style With Hypalon Coating, Add	1.97	
For Pyramid Style, Add	0.42	
For Pyramid Style With Hypalon Coating, Add	2.40	
09 84 13 00-0014 SF 4" Thick Melamine Sound Wave (Eggcrate Style) .....	36.75	
For Eggcrate Style With Hypalon Coating, Add	1.97	
For Pyramid Style, Add	0.42	
For Pyramid Style With Hypalon Coating, Add	2.40	

**09 Finishes**

**09 80 Acoustic Treatment**

**09 84 Acoustic Room Components**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**09 84 13 00-0015 Sound Deadening Fiberboard** (09 84 13)

09 84 13 00-0016	SF		1/2" Sound Deadening Fiberboard.....	1.75	0.63
			<i>For Horizontal Installation Up To 10' High, Add</i>	0.39	
			<i>For Horizontal Installation &gt;10' High, Add</i>	0.58	
			<i>For Walls &gt;10' High, Add</i>	0.09	
			<i>For Up To 128, Add</i>	0.58	
			<i>For &gt;128 To 320, Add</i>	0.35	

**09 90 Painting and Coating** (09)

Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in. See CSI section 01 56 16 00-0001 for temporary plastic sheeting to protect existing equipment or materials, 09 01 20 00-0000 for severely damaged surface preparation in excess of items included above, hand scrape, pressure washing and chemical cleaning where required.

**09 91 Painting** (09 90)

**09 91 13 Exterior Painting** (09 91)

Note: Acrylic latex paint unless otherwise stated. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.

**09 91 13 00-0001 Paint Exterior Walls/Siding** (09 91 13)

**09 91 13 00-0002 Paint Exterior Brick Walls** (09 91 13 00-0001)

09 91 13 00-0003	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Brick Walls.....	0.25	
			<i>For Oil Based Paint, Add</i>	0.01	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.03	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.16	
			<i>For &gt;100 To 250, Add</i>	0.08	
			<i>For &gt;250 To 500, Add</i>	0.03	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.01	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.03	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.04	
			<i>For &gt;20,000, Deduct</i>	-0.05	
09 91 13 00-0004	SF		1 Coat Filler, Brush Work, Paint Exterior Brick Walls.....	1.06	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.68	
			<i>For &gt;100 To 250, Add</i>	0.32	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.16	
			<i>For &gt;20,000, Deduct</i>	-0.21	
09 91 13 00-0005	SF		1 Coat Paint, Brush Work, Paint Exterior Brick Walls.....	1.53	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.52	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.72	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.01	
			<i>For &gt;100 To 250, Add</i>	0.48	
			<i>For &gt;250 To 500, Add</i>	0.21	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.15	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.23	
			<i>For &gt;20,000, Deduct</i>	-0.31	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0006 SF 2 Coats Paint, Brush Work, Paint Exterior Brick Walls .....	2.19	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.26	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.44	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.70	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.96	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.37	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 13 00-0007 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Brick Walls .....	0.71	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0008 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Brick Walls .....	1.17	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.23	
09 91 13 00-0009 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Brick Walls .....	1.74	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.49	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.67	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.99	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 13 00-0010 SF 1 Coat Filler, Sprayed, Paint Exterior Brick Walls .....	0.65	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.17	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.23	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0011	SF		1 Coat Paint, Sprayed, Paint Exterior Brick Walls.....	0.66	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.30	
			<i>For &gt;100 To 250, Add</i>	0.15	
			<i>For &gt;250 To 500, Add</i>	0.07	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.03	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.07	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.10	
			<i>For &gt;20,000, Deduct</i>	-0.13	
09 91 13 00-0012	SF		2 Coats Paint, Sprayed, Paint Exterior Brick Walls.....	1.40	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.47	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.72	
			<i>For &gt;100 To 250, Add</i>	0.35	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.21	
			<i>For &gt;20,000, Deduct</i>	-0.28	
09 91 13 00-0013			<b>Paint Exterior Concrete Walls</b> (09 91 13 00-0001)		
09 91 13 00-0014	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Walls.....	0.16	
			<i>For Oil Based Paint, Add</i>	0.01	
			<i>For Epoxy Paint, Add</i>	0.01	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.02	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.04	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.11	
			<i>For &gt;100 To 250, Add</i>	0.05	
			<i>For &gt;250 To 500, Add</i>	0.02	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.01	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.02	
			<i>For &gt;20,000, Deduct</i>	-0.03	
09 91 13 00-0015	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Walls.....	0.90	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.09	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.41	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.58	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0016 SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Walls .....	0.98	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.34	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.47	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0017 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Walls .....	1.85	
For Oil Based Paint, Add	0.11	
For Epoxy Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.40	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.64	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.87	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.23	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	
09 91 13 00-0018 SF 1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Walls .....	0.73	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0019 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Walls .....	0.83	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.17	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0020	SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Walls.....	1.39	
	For Oil Based Paint, Add	0.08	
	For Epoxy Paint, Add	0.15	
	For Work >15' To 20' Above Floor, Add	0.17	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.28	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.45	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.62	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.89	
	For >100 To 250, Add	0.42	
	For >250 To 500, Add	0.18	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.14	
	For >10,000 To 20,000, Deduct	-0.21	
	For >20,000, Deduct	-0.28	
09 91 13 00-0021	SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Walls .....	0.59	
	For Oil Based Paint, Add	0.04	
	For Epoxy Paint, Add	0.09	
	For Work >15' To 20' Above Floor, Add	0.06	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.10	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.16	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.22	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.33	
	For >100 To 250, Add	0.16	
	For >250 To 500, Add	0.07	
	For >2,500 To 5,000, Deduct	-0.03	
	For >5,000 To 10,000, Deduct	-0.06	
	For >10,000 To 20,000, Deduct	-0.09	
	For >20,000, Deduct	-0.12	
09 91 13 00-0022	SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Walls .....	0.53	
	For Oil Based Paint, Add	0.03	
	For Epoxy Paint, Add	0.07	
	For Work >15' To 20' Above Floor, Add	0.06	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.09	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.15	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.20	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.30	
	For >100 To 250, Add	0.15	
	For >250 To 500, Add	0.06	
	For >2,500 To 5,000, Deduct	-0.03	
	For >5,000 To 10,000, Deduct	-0.05	
	For >10,000 To 20,000, Deduct	-0.08	
	For >20,000, Deduct	-0.11	
09 91 13 00-0023	SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Walls .....	0.93	
	For Oil Based Paint, Add	0.06	
	For Epoxy Paint, Add	0.14	
	For Work >15' To 20' Above Floor, Add	0.09	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.15	
	Note: Applied only to work area above 20'.		
	For Work >30' To 40' Above Floor, Add	0.24	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.34	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.51	
	For >100 To 250, Add	0.25	
	For >250 To 500, Add	0.11	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.14	
	For >20,000, Deduct	-0.19	
09 91 13 00-0024	Paint Exterior Concrete Block Walls (09 91 13 00-0001)		
09 91 13 00-0025	Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0024)		



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0026 LF 1 Coat Epoxy Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls .....	0.23	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.10	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.14	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.05	
09 91 13 00-0027 SF 1 Coat Epoxy Filler, Brush Work, Paint Exterior Concrete Block Walls .....	1.25	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 13 00-0028 SF 1 Coat Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls .....	1.44	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.29	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.46	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.63	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.91	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.29	
09 91 13 00-0029 SF 2 Coats Epoxy Paint, Brush Work, Paint Exterior Concrete Block Walls .....	2.52	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.49	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.78	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.07	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.54	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.50	
09 91 13 00-0030 SF 1 Coat Epoxy Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls .....	1.03	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.21	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0031	SF	1	Coat Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	1.14	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.47	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.68	
			<i>For &gt;100 To 250, Add</i>	0.33	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 13 00-0032	SF	2	Coats Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls.....	2.02	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.58	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.79	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.17	
			<i>For &gt;100 To 250, Add</i>	0.56	
			<i>For &gt;250 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.20	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.30	
			<i>For &gt;20,000, Deduct</i>	-0.40	
09 91 13 00-0033	SF	1	Coat Epoxy Filler, Sprayed, Paint Exterior Concrete Block Walls.....	0.77	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.36	
			<i>For &gt;100 To 250, Add</i>	0.18	
			<i>For &gt;250 To 500, Add</i>	0.08	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.15	
09 91 13 00-0034	SF	1	Coat Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls.....	0.86	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.43	
			<i>For &gt;100 To 250, Add</i>	0.21	
			<i>For &gt;250 To 500, Add</i>	0.09	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.13	
			<i>For &gt;20,000, Deduct</i>	-0.17	
09 91 13 00-0035	SF	2	Coats Epoxy Paint, Sprayed, Paint Exterior Concrete Block Walls.....	1.65	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.79	
			<i>For &gt;100 To 250, Add</i>	0.39	
			<i>For &gt;250 To 500, Add</i>	0.17	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.17	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.25	
			<i>For &gt;20,000, Deduct</i>	-0.33	

09 91 13 00-0036 Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0024)





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0037 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Block Walls .....	0.22	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.10	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.14	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 13 00-0038 SF 1 Coat Filler, Brush Work, Paint Exterior Concrete Block Walls .....	1.16	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.39	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0039 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Block Walls .....	1.37	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.87	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.27	
09 91 13 00-0040 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Block Walls .....	2.51	
For Oil Based Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.30	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.50	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.80	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.57	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.32	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.25	
For >10,000 To 20,000, Deduct	-0.38	
For >20,000, Deduct	-0.50	
09 91 13 00-0041 SF 1 Coat Texture Paint, Brush Work, Paint Exterior Concrete Block Walls .....	1.53	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.50	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.68	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.97	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0042	SF	1	Coat Filler, Brush/Roller Work, Paint Exterior Concrete Block Walls .....	0.91	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.57	
			<i>For &gt;100 To 250, Add</i>	0.27	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 13 00-0043	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls .....	1.17	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.72	
			<i>For &gt;100 To 250, Add</i>	0.34	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.18	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 13 00-0044	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls .....	2.00	
			<i>For Oil Based Paint, Add</i>	0.13	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.59	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.81	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.19	
			<i>For &gt;100 To 250, Add</i>	0.57	
			<i>For &gt;250 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.20	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.30	
			<i>For &gt;20,000, Deduct</i>	-0.40	
09 91 13 00-0045	SF	1	Coat Texture Paint, Brush/Roller Work, Paint Exterior Concrete Block Walls .....	1.30	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.56	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.80	
			<i>For &gt;100 To 250, Add</i>	0.38	
			<i>For &gt;250 To 500, Add</i>	0.17	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.20	
			<i>For &gt;20,000, Deduct</i>	-0.26	
09 91 13 00-0046	SF	1	Coat Filler, Sprayed, Paint Exterior Concrete Block Walls .....	0.82	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.46	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.16	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0047 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Block Walls .....	0.86	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.30	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0048 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Block Walls .....	1.33	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 13 00-0049 SF 1 Coat Texture Paint, Sprayed, Paint Exterior Concrete Block Walls .....	1.10	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
<b>09 91 13 00-0050 Paint Exterior Drywall/Plaster Walls (09 91 13 00-0001)</b> .....		
09 91 13 00-0051 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Drywall/Plaster Walls .....	0.17	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.02	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.04	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.06	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.08	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.12	
For >100 To 250, Add	0.05	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.03	
For Epoxy Paint, Add	0.01	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0052	SF		1 Coat Primer, Brush Work, Paint Exterior Drywall/Plaster Wall.....	0.93	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Orange Peel Finish, Add</i>	0.13	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.60	
			<i>For &gt;100 To 250, Add</i>	0.29	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.19	
			<i>For Epoxy Paint, Add</i>	0.09	
09 91 13 00-0053	SF		1 Coat Paint, Brush Work, Paint Exterior Drywall/Plaster Walls .....	1.01	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Orange Peel Finish, Add</i>	0.14	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.68	
			<i>For &gt;100 To 250, Add</i>	0.32	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.20	
			<i>For Epoxy Paint, Add</i>	0.09	
09 91 13 00-0054	SF		2 Coats Paint, Brush Work, Paint Exterior Drywall/Plaster Walls.....	1.86	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Orange Peel Finish, Add</i>	0.26	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.64	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.88	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.24	
			<i>For &gt;100 To 250, Add</i>	0.59	
			<i>For &gt;250 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.09	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.19	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.28	
			<i>For &gt;20,000, Deduct</i>	-0.37	
			<i>For Epoxy Paint, Add</i>	0.17	
09 91 13 00-0055	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Drywall/Plaster Walls.....	0.73	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Orange Peel Finish, Add</i>	0.10	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.45	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.09	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.07	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.11	
			<i>For &gt;20,000, Deduct</i>	-0.15	
			<i>For Epoxy Paint, Add</i>	0.08	



<b>Finishes</b>	<b>09</b>	<b>9</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0056 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Drywall/Plaster Walls .....	0.74	
For Oil Based Paint, Add	0.04	
For Orange Peel Finish, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
For Epoxy Paint, Add	0.08	
09 91 13 00-0057 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Drywall/Plaster Walls .....	1.36	
For Oil Based Paint, Add	0.08	
For Orange Peel Finish, Add	0.19	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
For Epoxy Paint, Add	0.15	
09 91 13 00-0058 SF 1 Coat Primer, Sprayed, Paint Exterior Drywall/Plaster Walls .....	0.58	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
For Epoxy Paint, Add	0.09	
09 91 13 00-0059 SF 1 Coat Paint, Sprayed, Paint Exterior Drywall/Plaster Walls.....	0.63	
For Oil Based Paint, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.19	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.26	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
For Epoxy Paint, Add	0.08	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0060	SF		2 Coats Paint, Sprayed, Paint Exterior Drywall/Plaster Walls .....	1.02	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.57	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.20	
			<i>For Epoxy Paint, Add</i>	0.15	
09 91 13 00-0061			Paint Exterior Metal Walls <small>(09 91 13 00-0001)</small>		
09 91 13 00-0062			Paint Exterior Galvanized Walls <small>(09 91 13 00-0061)</small>		
			<i>Note: Linseed oil or acrylic latex paint.</i>		
09 91 13 00-0063	SF		1 Coat Primer, Brush Work, Paint Exterior Galvanized Wall Surfaces .....	1.17	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.70	
			<i>For &gt;100 To 250, Add</i>	0.33	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.18	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 13 00-0064	SF		1 Coat Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces .....	1.29	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.54	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.79	
			<i>For &gt;100 To 250, Add</i>	0.38	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.19	
			<i>For &gt;20,000, Deduct</i>	-0.26	
09 91 13 00-0065	SF		2 Coats Paint, Brush Work, Paint Exterior Galvanized Wall Surfaces .....	2.34	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.69	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.95	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.39	
			<i>For &gt;100 To 250, Add</i>	0.67	
			<i>For &gt;250 To 500, Add</i>	0.29	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.12	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.23	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.35	
			<i>For &gt;20,000, Deduct</i>	-0.47	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0066 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Walls.....	0.87	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0067 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Walls.....	1.00	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0068 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Walls.....	1.89	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.55	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.75	
Note: Applied only to work area above 40'		
For Up To 100, Add	1.11	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.38	
09 91 13 00-0069 SF 1 Coat Primer, Sprayed, Paint Exterior Galvanized Walls.....	0.70	
For Work >15' To 20' Above Floor, Add	0.05	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.09	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.14	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.19	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.32	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 13 00-0070 SF 1 Coat Paint, Sprayed, Paint Exterior Galvanized Walls.....	0.91	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.47	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	

<b>09</b>	<b>Finishes</b>
<b>09 90</b>	<b>Painting and Coating</b>
<b>09 91</b>	<b>Painting</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0071	SF		2 Coats Paint, Sprayed, Paint Exterior Galvanized Walls.....	1.53	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.73	
			<i>For &gt;100 To 250, Add</i>	0.36	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.15	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.23	
			<i>For &gt;20,000, Deduct</i>	-0.31	
09 91 13 00-0072			<b>Paint Exterior Aluminum And Aluminum Alloy Walls</b> (09 91 13 00-0061)		
			<i>Note: Alkyd enamel paint.</i>		
09 91 13 00-0073	SF		1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.17	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.70	
			<i>For &gt;100 To 250, Add</i>	0.33	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.18	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 13 00-0074	SF		1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	1.29	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.54	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.79	
			<i>For &gt;100 To 250, Add</i>	0.38	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.19	
			<i>For &gt;20,000, Deduct</i>	-0.26	
09 91 13 00-0075	SF		2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces.....	2.33	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.69	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.95	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.39	
			<i>For &gt;100 To 250, Add</i>	0.67	
			<i>For &gt;250 To 500, Add</i>	0.29	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.12	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.23	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.35	
			<i>For &gt;20,000, Deduct</i>	-0.47	
09 91 13 00-0076	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls.....	0.97	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.52	
			<i>For &gt;100 To 250, Add</i>	0.25	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.19	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0077 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls .....	1.09	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 13 00-0078 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Walls .....	2.07	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.55	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.75	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.13	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 13 00-0079 SF 1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls .....	0.77	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.17	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.23	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
09 91 13 00-0080 SF 1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls .....	0.91	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.47	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0081 SF 2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Walls .....	1.53	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.73	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	

09 91 13 00-0082 Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0061)

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0083	LF	1	Coat Primer, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	14.20	
			For Work >15' To 20' Above Floor, Add	1.87	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	3.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	4.98	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	6.85	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	9.61	
			For >100 To 250, Add	4.54	
			For >250 To 500, Add	1.96	
			For >2,500 To 5,000, Deduct	-0.71	
			For >5,000 To 10,000, Deduct	-1.42	
			For >10,000 To 20,000, Deduct	-2.13	
			For >20,000, Deduct	-2.84	
09 91 13 00-0084	LF	1	Coat Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	15.81	
			For Work >15' To 20' Above Floor, Add	2.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	3.46	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	5.54	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	7.62	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	10.68	
			For >100 To 250, Add	5.04	
			For >250 To 500, Add	2.18	
			For >2,500 To 5,000, Deduct	-0.79	
			For >5,000 To 10,000, Deduct	-1.58	
			For >10,000 To 20,000, Deduct	-2.37	
			For >20,000, Deduct	-3.16	
09 91 13 00-0085	LF	2	Coats Paint, Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, Per LF Of Stack.....	29.51	
			For Work >15' To 20' Above Floor, Add	3.90	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	6.51	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	10.41	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	14.32	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	20.04	
			For >100 To 250, Add	9.46	
			For >250 To 500, Add	4.08	
			For >2,500 To 5,000, Deduct	-1.48	
			For >5,000 To 10,000, Deduct	-2.95	
			For >10,000 To 20,000, Deduct	-4.43	
			For >20,000, Deduct	-5.90	
09 91 13 00-0086			<b>Paint Exterior Corrugated Metal Walls</b> (09 91 13 00-0061)		
09 91 13 00-0087	SF	1	Coat Primer, Sprayed, Paint Exterior Corrugated Metal Walls.....	0.87	
			For Work >15' To 20' Above Floor, Add	0.07	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.12	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.19	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.26	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 13 00-0088	SF	1	Coat Paint, Sprayed, Paint Exterior Corrugated Metal Walls.....	1.14	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.30	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.41	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.62	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0089 SF 2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Walls .....	1.91	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.95	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.38	
 09 91 13 00-0090 Paint Exterior Stucco Walls (09 91 13 00-0001)		
09 91 13 00-0091 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Stucco Wall Surfaces .....	0.28	
For Oil Based Paint, Add	0.02	
For Work >15' To 20' Above Floor, Add	0.04	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.06	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.10	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.13	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.19	
For >100 To 250, Add	0.09	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.04	
For >20,000, Deduct	-0.06	
09 91 13 00-0092 SF 1 Coat Primer, Brush Work, Paint Exterior Stucco Wall Surfaces .....	1.56	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.55	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.75	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.06	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0093 SF 1 Coat Paint, Brush Work, Paint Exterior Stucco Wall Surfaces .....	1.72	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.60	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.82	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.15	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.34	
09 91 13 00-0094 SF 2 Coats Paint, Brush Work, Paint Exterior Stucco Wall Surfaces .....	3.17	
For Oil Based Paint, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.41	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.68	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.09	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.50	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.11	
For >100 To 250, Add	1.00	
For >250 To 500, Add	0.43	
For >2,500 To 5,000, Deduct	-0.16	
For >5,000 To 10,000, Deduct	-0.32	
For >10,000 To 20,000, Deduct	-0.48	
For >20,000, Deduct	-0.63	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0095	SF	1	Coat Primer, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.17	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.54	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.76	
			<i>For &gt;100 To 250, Add</i>	0.36	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.18	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 13 00-0096	SF	1	Coat Paint, Brush/Roller Work, Paint Exterior Stucco Walls.....	1.33	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.44	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.61	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.86	
			<i>For &gt;100 To 250, Add</i>	0.41	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.20	
			<i>For &gt;20,000, Deduct</i>	-0.27	
09 91 13 00-0097	SF	2	Coats Paint, Brush/Roller Work, Paint Exterior Stucco Walls.....	2.44	
			<i>For Oil Based Paint, Add</i>	0.14	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.80	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	1.09	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.56	
			<i>For &gt;100 To 250, Add</i>	0.74	
			<i>For &gt;250 To 500, Add</i>	0.32	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.12	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.24	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.37	
			<i>For &gt;20,000, Deduct</i>	-0.49	
09 91 13 00-0098	SF	1	Coat Primer, Sprayed, Paint Exterior Stucco Walls.....	0.81	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.47	
			<i>For &gt;100 To 250, Add</i>	0.23	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.16	
09 91 13 00-0099	SF	1	Coat Paint, Sprayed, Paint Exterior Stucco Walls.....	0.99	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.57	
			<i>For &gt;100 To 250, Add</i>	0.27	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.20	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0100 SF 2 Coats Paint, Sprayed, Paint Exterior Stucco Walls.....	1.92	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.35	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.56	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.77	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.13	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.38	
<b>09 91 13 00-0101 Paint Exterior Wood Siding (09 91 13 00-0001)</b>		
<b>09 91 13 00-0102 Paint Exterior Smooth Wood Siding (09 91 13 00-0101)</b>		
Note: Includes tongue and groove, beveled, drop or board and batten siding.		
09 91 13 00-0103 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Siding.....	0.23	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.08	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.11	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.15	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.05	
09 91 13 00-0104 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Siding.....	1.31	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0105 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Siding.....	1.39	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.18	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.30	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.48	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.66	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.93	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0106	SF		2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Siding.....	2.48	
			For Oil Based Paint, Add	0.14	
			For Work >15' To 20' Above Floor, Add	0.31	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.52	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.84	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.15	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.63	
			For >100 To 250, Add	0.77	
			For >250 To 500, Add	0.33	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000, Deduct	-0.50	
09 91 13 00-0107	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.01	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.30	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.41	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0108	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	1.12	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.36	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.49	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 13 00-0109	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Siding.....	2.09	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.25	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.41	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.66	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.90	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.30	
			For >100 To 250, Add	0.62	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000, Deduct	-0.42	
09 91 13 00-0110	SF		1 Coat Primer, Sprayed, Paint Exterior Smooth Wood Siding.....	0.76	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.13	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.20	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.28	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0111 SF 1 Coat Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	0.93	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.27	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.37	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0112 SF 2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Siding.....	1.49	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.40	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.55	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.82	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	
<b>09 91 13 00-0113 Paint Exterior Rough Wood Siding (09 91 13 00-0101)</b>		
Note: Includes shingles, shakes or rough sawn siding.		
09 91 13 00-0114 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding .....	1.75	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.60	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.82	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.16	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 13 00-0115 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	1.76	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.24	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.39	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.63	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.86	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.21	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0116	SF		2 Coats Paint, Brush Work, Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding.....	3.25	
			<i>For Oil Based Paint, Add</i>	0.18	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.72	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	1.14	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	1.57	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	2.20	
			<i>For &gt;100 To 250, Add</i>	1.04	
			<i>For &gt;250 To 500, Add</i>	0.45	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.16	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.33	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.49	
			<i>For &gt;20,000, Deduct</i>	-0.65	
09 91 13 00-0117	SF		1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn).....	1.53	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.44	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.61	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.90	
			<i>For &gt;100 To 250, Add</i>	0.43	
			<i>For &gt;250 To 500, Add</i>	0.19	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.15	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.23	
			<i>For &gt;20,000, Deduct</i>	-0.31	
09 91 13 00-0118	SF		1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn).....	1.66	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.68	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.99	
			<i>For &gt;100 To 250, Add</i>	0.48	
			<i>For &gt;250 To 500, Add</i>	0.21	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.17	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.25	
			<i>For &gt;20,000, Deduct</i>	-0.33	
09 91 13 00-0119	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn).....	3.07	
			<i>For Oil Based Paint, Add</i>	0.20	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.56	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.89	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	1.23	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.80	
			<i>For &gt;100 To 250, Add</i>	0.86	
			<i>For &gt;250 To 500, Add</i>	0.38	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.15	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.31	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.46	
			<i>For &gt;20,000, Deduct</i>	-0.61	
09 91 13 00-0120	SF		1 Coat Primer, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn).....	1.06	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.58	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.16	
			<i>For &gt;20,000, Deduct</i>	-0.21	





<b>Finishes</b>	<b>09</b>	<b>9</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0121 SF 1 Coat Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn) .....	1.19	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0122 SF 2 Coats Paint, Sprayed, Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn) .....	2.24	
For Oil Based Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.38	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.61	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.84	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.25	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.34	
For >20,000, Deduct	-0.45	
<b>09 91 13 00-0123 Paint Exterior Vinyl Siding (09 91 13 00-0001)</b> .....		
09 91 13 00-0124 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Vinyl Siding .....	0.18	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.02	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.04	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.06	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.08	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.11	
For >100 To 250, Add	0.05	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 13 00-0125 SF 1 Coat Primer, Brush Work, Paint Exterior Vinyl Siding .....	0.97	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0126 SF 1 Coat Paint, Brush Work, Paint Exterior Vinyl Siding .....	1.07	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.34	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0127 SF 2 Coats Paint, Brush Work, Paint Exterior Vinyl Siding .....	1.98	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.60	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.82	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.19	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.40	
09 91 13 00-0128 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Vinyl Siding.....	0.88	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 13 00-0129 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Vinyl Siding .....	0.88	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 13 00-0130 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Vinyl Siding .....	1.63	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.91	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.33	



<b>Finishes</b>	<b>09</b>	<b>9</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0131 SF 1 Coat Primer, Sprayed, Paint Exterior Vinyl Siding .....	0.74	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.17	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.23	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.36	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0132 SF 1 Coat Paint, Sprayed, Paint Exterior Vinyl Siding .....	0.84	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.17	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.23	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.38	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0133 SF 2 Coats Paint, Sprayed, Paint Exterior Vinyl Siding .....	1.64	
For Oil Based Paint, Add	0.12	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
 09 91 13 00-0134 Paint Exterior Ceilings (09 91 13)		
09 91 13 00-0135 Paint Exterior Concrete Ceilings (09 91 13 00-0134)		
09 91 13 00-0136 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Ceiling .....	0.18	
For Oil Based Paint, Add	0.01	
For Epoxy Paint, Add	0.02	
For Work >15' To 20' Above Floor, Add	0.02	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.04	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.06	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.12	
For >100 To 250, Add	0.06	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0137	SF		1 Coat Filler, Brush Work, Paint Exterior Concrete Ceiling.....	1.02	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.47	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.67	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0138	SF		1 Coat Paint, Brush Work, Paint Exterior Concrete Ceiling.....	1.12	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.54	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 13 00-0139	SF		2 Coats Paint, Brush Work, Paint Exterior Concrete Ceiling.....	1.99	
			For Oil Based Paint, Add	0.11	
			For Epoxy Paint, Add	0.18	
			For Work >15' To 20' Above Floor, Add	0.26	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.43	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.69	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.95	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.34	
			For >100 To 250, Add	0.63	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91 13 00-0140	SF		1 Coat Filler, Brush/Roller Work, Paint Exterior Concrete Ceiling.....	0.78	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.25	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	



<b>Finishes</b>	<b>09</b>	<b>9</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0141 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling .....	0.87	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0142 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Ceiling .....	1.63	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.55	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.75	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.07	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.33	
09 91 13 00-0143 SF 1 Coat Filler, Sprayed, Paint Exterior Concrete Ceiling .....	0.61	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.17	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.23	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.34	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0144 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Ceiling .....	0.72	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0145	SF		2 Coats Paint, Sprayed, Paint Exterior Concrete Ceiling .....	1.15	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.67	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0146			<b>Drywall/Plaster</b> <small>(09 91 13 00-0134)</small> .....	0.18	
09 91 13 00-0147	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Drywall/Plaster Ceiling .....	0.18	
			For Oil Based Paint, Add	0.01	
			For Epoxy Paint, Add	0.02	
			For Work >15' To 20' Above Floor, Add	0.02	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.04	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.06	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.09	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.12	
			For >100 To 250, Add	0.06	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	
			For Epoxy Paint, Add	0.02	
09 91 13 00-0148	SF		1 Coat Primer, Brush Work, Paint Exterior Drywall/Plaster Ceiling .....	1.03	
			For Oil Based Paint, Add	0.06	
			For Orange Peel Finish, Add	0.14	
			For Epoxy Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.22	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.35	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.48	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.21	
			For Epoxy Paint, Add	0.10	
09 91 13 00-0149	SF		1 Coat Paint, Brush Work, Paint Exterior Drywall/Plaster Ceiling .....	1.12	
			For Oil Based Paint, Add	0.06	
			For Orange Peel Finish, Add	0.16	
			For Epoxy Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.15	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.25	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.40	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.54	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
			For Epoxy Paint, Add	0.10	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0150 SF 2 Coats Paint, Brush Work, Paint Exterior Drywall/Plaster Ceiling .....	2.00	
For Oil Based Paint, Add	0.11	
For Orange Peel Finish, Add	0.28	
For Epoxy Paint, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.26	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.44	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.70	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.96	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.34	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.40	
For Epoxy Paint, Add	0.18	
09 91 13 00-0151 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Drywall/Plaster Ceiling .....	0.77	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.11	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.15	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.24	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
For Epoxy Paint, Add	0.09	
09 91 13 00-0152 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Drywall/Plaster Ceiling .....	0.87	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.12	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
For Epoxy Paint, Add	0.08	
09 91 13 00-0153 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Drywall/Plaster Ceiling .....	1.62	
For Oil Based Paint, Add	0.09	
For Orange Peel Finish, Add	0.23	
For Epoxy Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.54	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.75	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.06	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
For Epoxy Paint, Add	0.16	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0154	SF		1 Coat Primer, Sprayed, Paint Exterior Drywall/Plaster Ceiling .....	0.60	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.06	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.10	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.16	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.23	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.34	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
			For Epoxy Paint, Add	0.09	
09 91 13 00-0155	SF		1 Coat Paint, Sprayed, Paint Exterior Drywall/Plaster Ceiling.....	0.72	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.08	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.14	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.22	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.31	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
			For Epoxy Paint, Add	0.08	
09 91 13 00-0156	SF		2 Coats Paint, Sprayed, Paint Exterior Drywall/Plaster Ceiling.....	1.16	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.13	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.34	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
			For Epoxy Paint, Add	0.15	
09 91 13 00-0157			Paint Exterior Wood Ceilings (09 91 13 00-0134)		
09 91 13 00-0158			Paint Exterior Smooth Wood Ceilings (09 91 13 00-0157)		
09 91 13 00-0159	LF		1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Smooth Ceiling.....	0.21	
			For Oil Based Paint, Add	0.01	
			For Work >15' To 20' Above Floor, Add	0.03	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.05	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.07	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.10	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.14	
			For >100 To 250, Add	0.07	
			For >250 To 500, Add	0.03	
			For >2,500 To 5,000, Deduct	-0.01	
			For >5,000 To 10,000, Deduct	-0.02	
			For >10,000 To 20,000, Deduct	-0.03	
			For >20,000, Deduct	-0.04	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0160 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.26	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.81	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 13 00-0161 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	1.30	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0162 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Smooth Ceiling.....	2.38	
For Oil Based Paint, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.30	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.50	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.80	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.55	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.48	
09 91 13 00-0163 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling.....	1.01	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0164 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling.....	1.10	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0165	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Smooth Wood Ceiling .....	1.94	
			<i>For Oil Based Paint, Add</i>	0.12	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.60	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.82	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.19	
			<i>For &gt;100 To 250, Add</i>	0.57	
			<i>For &gt;250 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.19	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.29	
			<i>For &gt;20,000, Deduct</i>	-0.39	
09 91 13 00-0166	SF		1 Coat Primer, Sprayed, Paint Exterior Smooth Wood Ceiling .....	0.75	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.45	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.09	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.11	
			<i>For &gt;20,000, Deduct</i>	-0.15	
09 91 13 00-0167	SF		1 Coat Paint, Sprayed, Paint Exterior Smooth Wood Ceiling .....	0.75	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.45	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.09	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.11	
			<i>For &gt;20,000, Deduct</i>	-0.15	
09 91 13 00-0168	SF		2 Coats Paint, Sprayed, Paint Exterior Smooth Wood Ceiling .....	1.36	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.79	
			<i>For &gt;100 To 250, Add</i>	0.38	
			<i>For &gt;250 To 500, Add</i>	0.17	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.20	
			<i>For &gt;20,000, Deduct</i>	-0.27	

09 91 13 00-0169 Paint Exterior Rough Wood Ceilings (09 91 13 00-0157)



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0170 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Rough Ceiling.....	1.88	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.39	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.62	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.86	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.22	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.38	
09 91 13 00-0171 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Rough Ceiling .....	1.93	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.26	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.44	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.70	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.96	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.33	
For >100 To 250, Add	0.63	
For >250 To 500, Add	0.27	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.39	
09 91 13 00-0172 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Rough Ceiling .....	3.37	
For Oil Based Paint, Add	0.19	
For Work >15' To 20' Above Floor, Add	0.45	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.75	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	1.19	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.64	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.29	
For >100 To 250, Add	1.08	
For >250 To 500, Add	0.47	
For >2,500 To 5,000, Deduct	-0.17	
For >5,000 To 10,000, Deduct	-0.34	
For >10,000 To 20,000, Deduct	-0.51	
For >20,000, Deduct	-0.67	
09 91 13 00-0173 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Rough Wood Ceiling .....	1.66	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.50	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.68	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.99	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0174 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling .....	1.78	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.54	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.75	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.08	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0175	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Rough Wood Ceiling .....	3.19	
			<i>For Oil Based Paint, Add</i>	0.20	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.59	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.94	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	1.29	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.89	
			<i>For &gt;100 To 250, Add</i>	0.91	
			<i>For &gt;250 To 500, Add</i>	0.39	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.16	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.32	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.48	
			<i>For &gt;20,000, Deduct</i>	-0.64	
09 91 13 00-0176	SF		1 Coat Primer, Sprayed, Paint Exterior Rough Wood Ceiling .....	1.19	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.68	
			<i>For &gt;100 To 250, Add</i>	0.33	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.18	
			<i>For &gt;20,000, Deduct</i>	-0.24	
09 91 13 00-0177	SF		1 Coat Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	1.33	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.78	
			<i>For &gt;100 To 250, Add</i>	0.38	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.20	
			<i>For &gt;20,000, Deduct</i>	-0.27	
09 91 13 00-0178	SF		2 Coats Paint, Sprayed, Paint Exterior Rough Wood Ceiling.....	2.38	
			<i>For Oil Based Paint, Add</i>	0.15	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.67	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.92	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.36	
			<i>For &gt;100 To 250, Add</i>	0.66	
			<i>For &gt;250 To 500, Add</i>	0.29	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.12	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.24	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.36	
			<i>For &gt;20,000, Deduct</i>	-0.48	

09 91 13 00-0179 Paint Exterior Metal Ceilings (09 91 13 00-0134)

09 91 13 00-0180 Paint Exterior Galvanized Ceilings (09 91 13 00-0179)  
 Note: Linseed oil or acrylic latex paint.



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0181 SF 1 Coat Primer, Brush Work, Paint Exterior Galvanized Ceiling.....	1.29	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.40	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.54	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.79	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 13 00-0182 SF 1 Coat Paint, Brush Work, Paint Exterior Galvanized Ceiling .....	1.41	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.88	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0183 SF 2 Coats Paint, Brush Work, Paint Exterior Galvanized Ceiling .....	2.59	
For Work >15' To 20' Above Floor, Add	0.30	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.50	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.80	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.58	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.33	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.26	
For >10,000 To 20,000, Deduct	-0.39	
For >20,000, Deduct	-0.52	
09 91 13 00-0184 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Galvanized Ceiling .....	0.99	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0185 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling .....	1.12	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0186	SF		2 Coats Paint, Brush/Roller Work, Paint Exterior Galvanized Ceiling.....	1.99	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.60	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.82	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.19	
			<i>For &gt;100 To 250, Add</i>	0.57	
			<i>For &gt;250 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.20	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.30	
			<i>For &gt;20,000, Deduct</i>	-0.40	
09 91 13 00-0187	SF		1 Coat Primer, Sprayed, Paint Exterior Galvanized Ceiling.....	0.91	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.47	
			<i>For &gt;100 To 250, Add</i>	0.23	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 13 00-0188	SF		1 Coat Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	1.04	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.57	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.16	
			<i>For &gt;20,000, Deduct</i>	-0.21	
09 91 13 00-0189	SF		2 Coats Paint, Sprayed, Paint Exterior Galvanized Ceiling.....	1.67	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.83	
			<i>For &gt;100 To 250, Add</i>	0.41	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.17	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.25	
			<i>For &gt;20,000, Deduct</i>	-0.33	
09 91 13 00-0190			<b>Paint Exterior Aluminum And Aluminum Alloy Ceilings</b> (09 91 13 00-0179)		
			<i>Note: Alkyd enamel paint.</i>		
09 91 13 00-0191	SF		1 Coat Primer, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.29	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.54	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.79	
			<i>For &gt;100 To 250, Add</i>	0.38	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.19	
			<i>For &gt;20,000, Deduct</i>	-0.26	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0192 SF 1 Coat Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling .....	1.41	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.88	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0193 SF 2 Coats Paint, Brush Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling .....	2.59	
For Work >15' To 20' Above Floor, Add	0.30	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.50	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.80	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.58	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.33	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.26	
For >10,000 To 20,000, Deduct	-0.39	
For >20,000, Deduct	-0.52	
09 91 13 00-0194 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling .....	1.09	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 13 00-0195 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.22	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0196 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Aluminum And Aluminum Alloy Ceiling .....	2.19	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.60	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.82	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.22	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0197	SF		1 Coat Primer, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling .....	0.91	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.47	
			<i>For &gt;100 To 250, Add</i>	0.23	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 13 00-0198	SF		1 Coat Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	0.91	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.47	
			<i>For &gt;100 To 250, Add</i>	0.23	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 13 00-0199	SF		2 Coats Paint, Sprayed, Paint Exterior Aluminum And Aluminum Alloy Ceiling.....	1.67	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.83	
			<i>For &gt;100 To 250, Add</i>	0.41	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.17	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.25	
			<i>For &gt;20,000, Deduct</i>	-0.33	
<b>09 91 13 00-0200</b>			<b>Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0179)</b>		
09 91 13 00-0201	SF		1 Coat Primer, Sprayed, Paint Exterior Corrugated Metal Ceiling .....	1.00	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.51	
			<i>For &gt;100 To 250, Add</i>	0.25	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.20	
09 91 13 00-0202	SF		1 Coat Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	1.14	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.41	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.62	
			<i>For &gt;100 To 250, Add</i>	0.30	
			<i>For &gt;250 To 500, Add</i>	0.13	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.23	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0203 SF 2 Coats Paint, Sprayed, Paint Exterior Corrugated Metal Ceiling.....	2.08	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.32	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.51	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.70	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.08	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.42	
<b>09 91 13 00-0204 Paint Exterior Floors (09 91 13)</b>		
<b>09 91 13 00-0205 Paint Exterior Concrete Floors (09 91 13 00-0204)</b>		
09 91 13 00-0206 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Concrete Floors And Decks.....	0.14	
For Up To 100, Add	0.09	
For >100 To 250, Add	0.04	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.01	
For >10,000 To 20,000, Deduct	-0.02	
For >20,000, Deduct	-0.03	
09 91 13 00-0207 SF 1 Coat Primer, Brush Work, Paint Exterior Concrete Floors And Decks.....	0.78	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.09	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0208 SF 1 Coat Paint, Brush Work, Paint Exterior Concrete Floors And Decks.....	0.87	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0209 SF 2 Coats Paint, Brush Work, Paint Exterior Concrete Floors And Decks.....	1.63	
For Oil Based Paint, Add	0.09	
For Epoxy Paint, Add	0.16	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.33	
09 91 13 00-0210 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.65	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0211 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks.....	0.75	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0212 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks .....	1.23	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.14	
For Up To 100, Add	0.77	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	
09 91 13 00-0213 SF 1 Coat Primer, Sprayed, Paint Exterior Concrete Floors And Decks .....	0.47	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.24	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
09 91 13 00-0214 SF 1 Coat Paint, Sprayed, Paint Exterior Concrete Floors And Decks .....	0.58	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.34	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0215 SF 2 Coats Paint, Sprayed, Paint Exterior Concrete Floors And Decks .....	1.01	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.15	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0216 SF 1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Concrete Floors And Decks .....	2.20	
For Up To 100, Add	0.70	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 13 00-0217 SF 1 Coat Anti-Slip Paint, Single Component Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks .....	5.25	
For Up To 100, Add	1.16	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.32	
For >2,500 To 5,000, Deduct	-0.26	
For >5,000 To 10,000, Deduct	-0.53	
For >10,000 To 20,000, Deduct	-0.79	
For >20,000, Deduct	-1.05	
09 91 13 00-0218 SF 1 Coat Anti-Slip Paint, High Performance Epoxy Coating, Brush/Roller Work, Paint Exterior Concrete Floors And Decks .....	6.53	
For Up To 100, Add	1.35	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.39	
For >2,500 To 5,000, Deduct	-0.33	
For >5,000 To 10,000, Deduct	-0.65	
For >10,000 To 20,000, Deduct	-0.98	
For >20,000, Deduct	-1.31	
<b>09 91 13 00-0219 Paint Exterior Wood Floors (09 91 13 00-0204) .....</b>	<b>0.17</b>	
09 91 13 00-0220 LF 1 Coat Paint, Cut-in Brush Work, Paint Exterior Wood Floors And Decks .....	0.17	
For Up To 100, Add	0.11	
For >100 To 250, Add	0.05	
For >250 To 500, Add	0.02	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.03	
09 91 13 00-0221 SF 1 Coat Primer, Brush Work, Paint Exterior Wood Floors And Decks .....	0.98	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0222 SF 1 Coat Paint, Brush Work, Paint Exterior Wood Floors And Decks .....	1.06	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.68	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0223 SF 2 Coats Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	2.00	
For Oil Based Paint, Add	0.12	
For Up To 100, Add	1.27	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.30	
For >20,000, Deduct	-0.40	
09 91 13 00-0224 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Floors And Decks.....	0.89	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 13 00-0225 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks .....	0.97	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 13 00-0226 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Floors And Decks .....	1.56	
For Oil Based Paint, Add	0.10	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 13 00-0227 SF 1 Coat Primer, Sprayed, Paint Exterior Wood Floors And Decks .....	0.61	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.34	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0228 SF 1 Coat Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	0.75	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0229 SF 2 Coats Paint, Sprayed, Paint Exterior Wood Floors And Decks.....	1.22	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.68	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0230 SF 1 Coat Non-Slip Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	2.33	
For Up To 100, Add	0.80	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000, Deduct	-0.47	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0231	SF		1 Coat Non-Slip Epoxy Paint, Brush Work, Paint Exterior Wood Floors And Decks.....	6.66	
			<i>For Up To 100, Add</i>	1.45	
			<i>For &gt;100 To 250, Add</i>	0.85	
			<i>For &gt;250 To 500, Add</i>	0.41	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.33	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.67	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-1.00	
			<i>For &gt;20,000, Deduct</i>	-1.33	
<b>09 91 13 00-0232</b>			<b>Paint Exterior Doors And Windows (09 91 13)</b>		
<b>09 91 13 00-0233</b>			<b>Paint Exterior Door Frames (09 91 13 00-0232)</b>		
09 91 13 00-0234	LF		1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Door Frame And Trim .....	1.31	
			<i>For Painting Either Interior Or Exterior Only, Deduct</i>	-0.34	
09 91 13 00-0235	LF		1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Door Frame And Trim.....	1.70	
			<i>For Painting Either Interior Or Exterior Only, Deduct</i>	-0.44	
09 91 13 00-0236	LF		2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Door Frame And Trim.....	2.86	
			<i>For Painting Either Interior Or Exterior Only, Deduct</i>	-0.74	
09 91 13 00-0237	LF		1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Door Frame And Trim.....	1.34	
			<i>For Painting Either Interior Or Exterior Only, Deduct</i>	-0.36	
09 91 13 00-0238	LF		1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Door Frame And Trim .....	1.73	
			<i>For Painting Either Interior Or Exterior Only, Deduct</i>	-0.45	
09 91 13 00-0239	LF		2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Door Frame And Trim.....	2.90	
			<i>For Painting Either Interior Or Exterior Only, Deduct</i>	-0.76	
<b>09 91 13 00-0240</b>			<b>Paint Exterior Metal Doors (09 91 13 00-0232)</b>		
09 91 13 00-0241	EA		1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Door.....	56.53	
			Note: One face		
			<i>For Half Louvered Door, Add</i>	5.39	
			<i>For Full Louvered Door, Add</i>	8.99	
			<i>For Electrostatic Painting, Add</i>	8.74	
			<i>For &gt;5 To 10, Deduct</i>	-2.83	
			<i>For &gt;10 To 25, Deduct</i>	-5.65	
			<i>For &gt;25, Deduct</i>	-8.48	
09 91 13 00-0242	EA		1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Door .....	56.53	
			Note: One face		
			<i>For Half Louvered Door, Add</i>	5.39	
			<i>For Full Louvered Door, Add</i>	8.99	
			<i>For Electrostatic Painting, Add</i>	8.74	
			<i>For &gt;5 To 10, Deduct</i>	-2.83	
			<i>For &gt;10 To 25, Deduct</i>	-5.65	
			<i>For &gt;25, Deduct</i>	-8.48	
09 91 13 00-0243	EA		2 Coat Paint, Brush/Roller Work, Paint Exterior Metal Door .....	101.62	
			Note: One face		
			<i>For Half Louvered Door, Add</i>	9.11	
			<i>For Full Louvered Door, Add</i>	15.18	
			<i>For Electrostatic Painting, Add</i>	16.30	
			<i>For &gt;5 To 10, Deduct</i>	-5.08	
			<i>For &gt;10 To 25, Deduct</i>	-10.16	
			<i>For &gt;25, Deduct</i>	-15.24	
09 91 13 00-0244	EA		1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Door.....	101.44	
			Note: Both faces		
			<i>For Half Louvered Door, Add</i>	9.67	
			<i>For Full Louvered Door, Add</i>	16.12	
			<i>For Electrostatic Painting, Add</i>	15.69	
			<i>For &gt;5 To 10, Deduct</i>	-5.07	
			<i>For &gt;10 To 25, Deduct</i>	-10.14	
			<i>For &gt;25, Deduct</i>	-15.22	
09 91 13 00-0245	EA		1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Door .....	101.44	
			Note: Both faces		
			<i>For Half Louvered Door, Add</i>	9.67	
			<i>For Full Louvered Door, Add</i>	16.12	
			<i>For Electrostatic Painting, Add</i>	15.69	
			<i>For &gt;5 To 10, Deduct</i>	-5.07	
			<i>For &gt;10 To 25, Deduct</i>	-10.14	
			<i>For &gt;25, Deduct</i>	-15.22	
09 91 13 00-0246	EA		2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Door .....	183.03	
			Note: Both faces		
			<i>For Half Louvered Door, Add</i>	16.36	
			<i>For Full Louvered Door, Add</i>	27.27	
			<i>For Electrostatic Painting, Add</i>	29.40	
			<i>For &gt;5 To 10, Deduct</i>	-9.15	
			<i>For &gt;10 To 25, Deduct</i>	-18.30	
			<i>For &gt;25, Deduct</i>	-27.45	
09 91 13 00-0247	EA		1 Coat Primer, Sprayed, Paint Exterior Metal Door .....	49.48	
			Note: One face		
			<i>For Half Louvered Door, Add</i>	4.03	
			<i>For Full Louvered Door, Add</i>	6.71	
			<i>For Electrostatic Painting, Add</i>	8.34	
			<i>For &gt;5 To 10, Deduct</i>	-2.47	
			<i>For &gt;10 To 25, Deduct</i>	-4.95	
			<i>For &gt;25, Deduct</i>	-7.42	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0248 EA 1 Coat Paint, Sprayed, Paint Exterior Metal Door.....	49.47	
Note: One face		
For Half Louvered Door, Add	4.02	
For Full Louvered Door, Add	6.71	
For Electrostatic Painting, Add	8.34	
For >5 To 10, Deduct	-2.47	
For >10 To 25, Deduct	-4.95	
For >25, Deduct	-7.42	
09 91 13 00-0249 EA 2 Coats Paint, Sprayed, Paint Exterior Metal Door.....	90.30	
Note: One face		
For Half Louvered Door, Add	6.80	
For Full Louvered Door, Add	11.33	
For Electrostatic Painting, Add	15.78	
For >5 To 10, Deduct	-4.52	
For >10 To 25, Deduct	-9.03	
For >25, Deduct	-13.55	
09 91 13 00-0250 EA 1 Coat Primer, Sprayed, Paint Exterior Metal Door.....	88.79	
Note: Both faces		
For Half Louvered Door, Add	7.22	
For Full Louvered Door, Add	12.03	
For Electrostatic Painting, Add	14.98	
For >5 To 10, Deduct	-4.44	
For >10 To 25, Deduct	-8.88	
For >25, Deduct	-13.32	
09 91 13 00-0251 EA 1 Coat Paint, Sprayed, Paint Exterior Metal Door.....	88.79	
Note: Both faces		
For Half Louvered Door, Add	7.22	
For Full Louvered Door, Add	12.03	
For Electrostatic Painting, Add	14.98	
For >5 To 10, Deduct	-4.44	
For >10 To 25, Deduct	-8.88	
For >25, Deduct	-13.32	
09 91 13 00-0252 EA 2 Coats Paint, Sprayed, Paint Exterior Metal Door.....	162.79	
Note: Both faces		
For Half Louvered Door, Add	12.21	
For Full Louvered Door, Add	20.36	
For Electrostatic Painting, Add	28.48	
For >5 To 10, Deduct	-8.14	
For >10 To 25, Deduct	-16.28	
For >25, Deduct	-24.42	
09 91 13 00-0253 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	2.81	
For Electrostatic Painting, Add	0.33	
09 91 13 00-0254 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	2.94	
For Electrostatic Painting, Add	0.37	
09 91 13 00-0255 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Overhead, Section Door, Or Roll Up Door.....	6.04	
For Electrostatic Painting, Add	0.73	
09 91 13 00-0256 SF 1 Coat Primer, Sprayed, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	2.87	
For Electrostatic Painting, Add	0.34	
09 91 13 00-0257 SF 1 Coat Paint, Sprayed, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	3.00	
For Electrostatic Painting, Add	0.37	
09 91 13 00-0258 SF 2 Coats Paint, Sprayed, Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door.....	5.81	
For Electrostatic Painting, Add	0.72	
<b>09 91 13 00-0259 Paint Exterior Wood Doors (09 91 13 00-0232)</b>		
09 91 13 00-0260 EA 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Door.....	51.26	
Note: One face		
For Half Louvered Door, Add	5.39	
For Full Louvered Door, Add	8.99	
For >5 To 10, Deduct	-2.56	
For >10 To 25, Deduct	-5.13	
For >25, Deduct	-7.69	
09 91 13 00-0261 EA 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Door.....	51.26	
Note: One face		
For Half Louvered Door, Add	5.39	
For Full Louvered Door, Add	8.99	
For >5 To 10, Deduct	-2.56	
For >10 To 25, Deduct	-5.13	
For >25, Deduct	-7.69	
09 91 13 00-0262 EA 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Door.....	91.14	
Note: One face		
For Half Louvered Door, Add	9.11	
For Full Louvered Door, Add	15.18	
For >5 To 10, Deduct	-4.56	
For >10 To 25, Deduct	-9.11	
For >25, Deduct	-13.67	
09 91 13 00-0263 EA 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Door.....	91.97	
Note: Both faces		
For Half Louvered Door, Add	9.67	
For Full Louvered Door, Add	16.12	
For >5 To 10, Deduct	-4.60	
For >10 To 25, Deduct	-9.20	
For >25, Deduct	-13.80	

**09 Finishes****09 90 Painting and Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0264 EA 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Door.....	91.97	
Note: Both faces		
For Half Louvered Door, Add	9.67	
For Full Louvered Door, Add	16.12	
For >5 To 10, Deduct	-4.60	
For >10 To 25, Deduct	-9.20	
For >25, Deduct	-13.80	
09 91 13 00-0265 EA 2 Coats Paint, Brush Roller Work, Paint Exterior Wood Door.....	164.08	
Note: Both faces		
For Half Louvered Door, Add	16.36	
For Full Louvered Door, Add	27.27	
For >5 To 10, Deduct	-8.20	
For >10 To 25, Deduct	-16.41	
For >25, Deduct	-24.61	
09 91 13 00-0266 EA 1 Coat Primer, Sprayed, Paint Exterior Wood Door.....	43.67	
Note: One face		
For Half Louvered Door, Add	4.02	
For Full Louvered Door, Add	6.71	
For >5 To 10, Deduct	-2.18	
For >10 To 25, Deduct	-4.37	
For >25, Deduct	-6.55	
09 91 13 00-0267 EA 1 Coat Paint, Sprayed, Paint Exterior Wood Door.....	43.67	
Note: One face		
For Half Louvered Door, Add	4.02	
For Full Louvered Door, Add	6.71	
For >5 To 10, Deduct	-2.18	
For >10 To 25, Deduct	-4.37	
For >25, Deduct	-6.55	
09 91 13 00-0268 EA 2 Coats Paint, Sprayed, Paint Exterior Wood Door.....	78.80	
Note: One face		
For Half Louvered Door, Add	6.80	
For Full Louvered Door, Add	11.34	
For >5 To 10, Deduct	-3.94	
For >10 To 25, Deduct	-7.88	
For >25, Deduct	-11.82	
09 91 13 00-0269 EA 1 Coat Primer, Sprayed, Paint Exterior Wood Door.....	78.37	
Note: Both faces		
For Half Louvered Door, Add	7.22	
For Full Louvered Door, Add	12.03	
For >5 To 10, Deduct	-3.92	
For >10 To 25, Deduct	-7.84	
For >25, Deduct	-11.76	
09 91 13 00-0270 EA 1 Coat Paint, Sprayed, Paint Exterior Wood Door.....	78.37	
Note: Both faces		
For Half Louvered Door, Add	7.22	
For Full Louvered Door, Add	12.03	
For >5 To 10, Deduct	-3.92	
For >10 To 25, Deduct	-7.84	
For >25, Deduct	-11.76	
09 91 13 00-0271 EA 2 Coats Paint, Sprayed, Paint Exterior Wood Door.....	141.94	
Note: Both faces		
For Half Louvered Door, Add	12.21	
For Full Louvered Door, Add	20.36	
For >5 To 10, Deduct	-7.10	
For >10 To 25, Deduct	-14.19	
For >25, Deduct	-21.29	
09 91 13 00-0272 SF 1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	2.74	
09 91 13 00-0273 SF 1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	2.82	
09 91 13 00-0274 SF 2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	5.82	
09 91 13 00-0275 SF 1 Coat Primer, Sprayed, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	2.78	
09 91 13 00-0276 SF 1 Coat Paint, Sprayed, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	2.88	
09 91 13 00-0277 SF 2 Coats Paint, Sprayed, Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door.....	5.58	
<b>09 91 13 00-0278 Paint Exterior Metal Windows (09 91 13 00-0232)</b>		
Note: Two finish coats paint over rust inhibitive primer.		
09 91 13 00-0279 EA Up To 8 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Metal Window Including Trim.....	94.25	
For Electrostatic Painting, Add	11.48	
For >5 To 10, Deduct	-4.71	
For >10 To 25, Deduct	-9.43	
For >25, Deduct	-14.14	
09 91 13 00-0280 EA >8 To 14 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Metal Window Including Trim.....	114.09	
For Electrostatic Painting, Add	14.58	
For >5 To 10, Deduct	-5.70	
For >10 To 25, Deduct	-11.41	
For >25, Deduct	-17.11	
09 91 13 00-0281 EA >14 To 20 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Metal Window Including Trim.....	153.98	
For Electrostatic Painting, Add	19.90	
For >5 To 10, Deduct	-7.70	
For >10 To 25, Deduct	-15.40	
For >25, Deduct	-23.10	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91	13 00-0282	EA	>20 To 26 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Metal Window Including Trim ..... 173.39		
				<i>For Electrostatic Painting, Add</i> ..... 22.43		
				<i>For &gt;5 To 10, Deduct</i> ..... -8.67		
				<i>For &gt;10 To 25, Deduct</i> ..... -17.34		
				<i>For &gt;25, Deduct</i> ..... -26.01		
	09 91	13 00-0283	EA	>26 To 34 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Metal Window Including Trim ..... 192.26		
				<i>For Electrostatic Painting, Add</i> ..... 24.82		
				<i>For &gt;5 To 10, Deduct</i> ..... -9.61		
				<i>For &gt;10 To 25, Deduct</i> ..... -19.23		
				<i>For &gt;25, Deduct</i> ..... -28.84		
	09 91	13 00-0284	SF	>34 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Metal Window Including Trim ..... 6.10		
				<i>For Electrostatic Painting, Add</i> ..... 0.79		
	09 91	13 00-0285		<b>Paint Exterior Wood Windows</b> (09 91 13 00-0232)		
				Note: Two finish coats paint over primer.		
	09 91	13 00-0286	EA	Up To 8 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Wood Window Including Trim ..... 90.75		
				<i>For &gt;5 To 10, Deduct</i> ..... -4.54		
				<i>For &gt;10 To 25, Deduct</i> ..... -9.08		
				<i>For &gt;25, Deduct</i> ..... -13.61		
	09 91	13 00-0287	EA	>8 To 14 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Wood Window Including Trim ..... 108.68		
				<i>For &gt;5 To 10, Deduct</i> ..... -5.43		
				<i>For &gt;10 To 25, Deduct</i> ..... -10.87		
				<i>For &gt;25, Deduct</i> ..... -16.30		
	09 91	13 00-0288	EA	>14 To 20 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Wood Window Including Trim ..... 146.29		
				<i>For &gt;5 To 10, Deduct</i> ..... -7.31		
				<i>For &gt;10 To 25, Deduct</i> ..... -14.63		
				<i>For &gt;25, Deduct</i> ..... -21.94		
	09 91	13 00-0289	EA	>20 To 26 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Wood Window Including Trim ..... 164.70		
				<i>For &gt;5 To 10, Deduct</i> ..... -8.24		
				<i>For &gt;10 To 25, Deduct</i> ..... -16.47		
				<i>For &gt;25, Deduct</i> ..... -24.71		
	09 91	13 00-0290	EA	>26 To 34 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Wood Window Including Trim ..... 182.71		
				<i>For &gt;5 To 10, Deduct</i> ..... -9.14		
				<i>For &gt;10 To 25, Deduct</i> ..... -18.27		
				<i>For &gt;25, Deduct</i> ..... -27.41		
	09 91	13 00-0291	SF	>34 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Exterior Wood Window Including Trim ..... 6.11		
	09 91	13 00-0292		<b>Paint Exterior Security Screens</b> (09 91 13 00-0232)		
	09 91	13 00-0293	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Security Screen ..... 1.58		
				<i>For Electrostatic Painting, Add</i> ..... 0.20		
	09 91	13 00-0294	SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Security Screen ..... 1.62		
				<i>For Electrostatic Painting, Add</i> ..... 0.20		
	09 91	13 00-0295	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Security Screen ..... 2.68		
				<i>For Electrostatic Painting, Add</i> ..... 0.33		
	09 91	13 00-0296		<b>Paint Exterior Window Guards</b> (09 91 13 00-0232)		
	09 91	13 00-0297	SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Window Guards ..... 1.58		
	09 91	13 00-0298	SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Window Guards ..... 1.62		
	09 91	13 00-0299	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Window Guards ..... 2.68		
	09 91	13 00-0300		<b>Paint Exterior Window Trim</b> (09 91 13 00-0232)		
	09 91	13 00-0301	LF	1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Window Frame And Trim ..... 1.41		
	09 91	13 00-0302	LF	1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Window Frame And Trim ..... 1.41		
	09 91	13 00-0303	LF	2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Window Frame And Trim ..... 2.25		
	09 91	13 00-0304	LF	1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Window Frame And Trim ..... 1.64		
	09 91	13 00-0305	LF	1 Coat Paint, Brush/Roller Work, Paint Exterior Metal Window Frame And Trim ..... 1.64		
	09 91	13 00-0306	LF	2 Coats Paint, Brush/Roller Work, Paint Exterior Metal Window Frame And Trim ..... 2.72		
	09 91	13 00-0307		<b>Paint Exterior Roofing And Trim</b> (09 91 13)		
	09 91	13 00-0308		<b>Paint Stain Or Seal Wood Roofing</b> (09 91 13 00-0307)		
	09 91	13 00-0309	SF	1 Coat Paint, Brush/Roller Work, Stain And Seal Shingles/Shake ..... 1.96		
				<i>For Up To 100, Add</i> ..... 1.06		
				<i>For &gt;100 To 250, Add</i> ..... 0.52		
				<i>For &gt;250 To 500, Add</i> ..... 0.23		
	09 91	13 00-0310	SF	2 Coats Stain, Brush/Roller Work, Stain And Seal Shingles/Shake ..... 3.58		
				<i>For Up To 100, Add</i> ..... 1.91		
				<i>For &gt;100 To 250, Add</i> ..... 0.93		
				<i>For &gt;250 To 500, Add</i> ..... 0.41		
	09 91	13 00-0311		<b>Paint Metal Roofing</b> (09 91 13 00-0307)		

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0312	SF	1 Coat Paint, Brush/Roller Work, Paint Metal Roofing .....	0.90	
			<i>For Up To 100, Add</i>	0.44	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
09 91	13 00-0313	SF	2 Coats Paint, Brush/Roller Work, Paint Metal Roofing .....	1.57	
			<i>For Up To 100, Add</i>	0.79	
			<i>For &gt;100 To 250, Add</i>	0.39	
			<i>For &gt;250 To 500, Add</i>	0.17	
<b>09 91</b>	<b>13 00-0314</b>		<b>Paint Fascia Board</b> <small>(09 91 13 00-0307)</small>		
09 91	13 00-0315	LF	1 Coat Primer, Brush/Roller Work, Paint Fascia Board.....	0.80	
			<i>For Up To 100, Add</i>	0.43	
			<i>For &gt;100 To 250, Add</i>	0.21	
			<i>For &gt;250 To 500, Add</i>	0.09	
09 91	13 00-0316	LF	1 Coat Paint, Brush/Roller Work, Paint Fascia Board .....	0.80	
			<i>For Up To 100, Add</i>	0.43	
			<i>For &gt;100 To 250, Add</i>	0.21	
			<i>For &gt;250 To 500, Add</i>	0.09	
09 91	13 00-0317	LF	2 Coats Paint, Brush/Roller Work, Paint Fascia Board .....	1.41	
			<i>For Up To 100, Add</i>	0.76	
			<i>For &gt;100 To 250, Add</i>	0.37	
			<i>For &gt;250 To 500, Add</i>	0.16	
<b>09 91</b>	<b>13 00-0318</b>		<b>Paint Soffit</b> <small>(09 91 13 00-0307)</small>		
09 91	13 00-0319	SF	1 Coat Primer, Brush/Roller Work, Paint Soffit .....	0.93	
			<i>For Up To 100, Add</i>	0.45	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
09 91	13 00-0320	SF	1 Coat Paint, Brush/Roller Work, Paint Soffit.....	0.93	
			<i>For Up To 100, Add</i>	0.45	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
09 91	13 00-0321	SF	2 Coats Paint, Brush/Roller Work, Paint Soffit.....	1.59	
			<i>For Up To 100, Add</i>	0.78	
			<i>For &gt;100 To 250, Add</i>	0.39	
			<i>For &gt;250 To 500, Add</i>	0.17	
<b>09 91</b>	<b>13 00-0322</b>		<b>Paint Metal Surfaces</b> <small>(09 91 13)</small>		
			Note: Tasks can be used for exterior or interior applications.		
<b>09 91</b>	<b>13 00-0323</b>		<b>Paint Structural Steel</b> <small>(09 91 13 00-0322)</small>		
<b>09 91</b>	<b>13 00-0324</b>		<b>Paint Structural Steel, Brush Work</b> <small>(09 91 13 00-0323)</small>		
09 91	13 00-0325	SF	1 Field Coat Primer, Brush/Roller Work, Paint Exterior Structural Steel .....	1.10	
			<i>For Up To 100, Add</i>	0.71	
			<i>For &gt;100 To 250, Add</i>	0.34	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For Epoxy Paint, Add</i>	0.12	
09 91	13 00-0326	SF	1 Field Coat Paint, Brush/Roller Work, Paint Exterior Structural Steel .....	0.96	
			<i>For Up To 100, Add</i>	0.60	
			<i>For &gt;100 To 250, Add</i>	0.29	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For Epoxy Paint, Add</i>	0.11	
<b>09 91</b>	<b>13 00-0327</b>		<b>Paint Structural Steel, Spray Work</b> <small>(09 91 13 00-0323)</small>		
09 91	13 00-0328	SF	1 Field Coat Primer, Sprayed, Paint Exterior Structural Steel.....	0.77	
			<i>For Electrostatic Painting, Add</i>	0.11	
			<i>For Up To 100, Add</i>	0.46	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For Epoxy Paint, Add</i>	0.10	
09 91	13 00-0329	SF	1 Field Coat Paint, Sprayed, Paint Exterior Structural Steel .....	0.63	
			<i>For Electrostatic Painting, Add</i>	0.09	
			<i>For Up To 100, Add</i>	0.35	
			<i>For &gt;100 To 250, Add</i>	0.17	
			<i>For &gt;250 To 500, Add</i>	0.07	
			<i>For Epoxy Paint, Add</i>	0.09	
<b>09 91</b>	<b>13 00-0330</b>		<b>Paint Metal Decking, Beams And Bar Joist</b> <small>(09 91 13 00-0323)</small>		
09 91	13 00-0331	SF	1 Coat Primer, Sprayed, Paint Exposed Metal Decking.....	0.87	
			<i>For Up To 100, Add</i>	0.53	
			<i>For &gt;100 To 250, Add</i>	0.25	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For Epoxy Paint, Add</i>	0.10	
09 91	13 00-0332	SF	1 Coat Paint, Sprayed, Paint Exposed Metal Decking .....	0.87	
			<i>For Up To 100, Add</i>	0.53	
			<i>For &gt;100 To 250, Add</i>	0.25	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For Epoxy Paint, Add</i>	0.10	





		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0333 SF 2 Coats Paint, Sprayed, Paint Exposed Metal Decking .....	1.45	
For Up To 100, Add	0.85	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For Epoxy Paint, Add	0.19	
09 91 13 00-0334 SF 1 Coat Primer, Brush/Roller Work, Paint Metal Beams And Bar Joists .....	1.33	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For Epoxy Paint, Add	0.18	
09 91 13 00-0335 SF 1 Coat Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists .....	1.30	
For Up To 100, Add	0.77	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For Epoxy Paint, Add	0.17	
09 91 13 00-0336 SF 2 Coats Paint, Brush/Roller Work, Paint Metal Beams And Bar Joists .....	2.46	
For Up To 100, Add	1.44	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.30	
For Epoxy Paint, Add	0.33	
09 91 13 00-0337 SF 1 Coat Primer, Sprayed, Paint Metal Beams And Bar Joists .....	1.06	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.14	
09 91 13 00-0338 SF 1 Coat Paint, Sprayed, Paint Metal Beams And Bar Joists .....	1.06	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.14	
09 91 13 00-0339 SF 2 Coats Paint, Sprayed, Paint Metal Beams And Bar Joists .....	1.79	
For Up To 100, Add	0.99	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For Epoxy Paint, Add	0.26	
<b>09 91 13 00-0340 Paint Steel Pipes</b> <small>(09 91 13 00-0322)</small>		
Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0341 LF 1 Coat Primer, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe .....	1.85	
For Electrostatic Painting, Add	0.23	
For Epoxy Paint, Add	0.18	
09 91 13 00-0342 LF 1 Coat Primer, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe .....	2.07	
For Electrostatic Painting, Add	0.26	
For Epoxy Paint, Add	0.21	
09 91 13 00-0343 LF 1 Coat Primer, 4" Diameter, Paint Steel Pipes .....	2.33	
For Electrostatic Painting, Add	0.29	
For Epoxy Paint, Add	0.24	
09 91 13 00-0344 LF 1 Coat Primer, 6" To 8" Diameter, Paint Steel Pipes .....	2.92	
For Electrostatic Painting, Add	0.36	
For Epoxy Paint, Add	0.29	
09 91 13 00-0345 LF 1 Coat Primer, 10" To 12" Diameter, Paint Steel Pipes .....	3.70	
For Electrostatic Painting, Add	0.46	
For Epoxy Paint, Add	0.37	
09 91 13 00-0346 LF 1 Coat Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe .....	1.85	
For Electrostatic Painting, Add	0.23	
For Epoxy Paint, Add	0.18	
09 91 13 00-0347 LF 1 Coat Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe .....	2.07	
For Electrostatic Painting, Add	0.26	
For Epoxy Paint, Add	0.21	
09 91 13 00-0348 LF 1 Coat Paint, 4" Diameter, Paint Steel Pipes .....	2.33	
For Electrostatic Painting, Add	0.29	
For Epoxy Paint, Add	0.24	
09 91 13 00-0349 LF 1 Coat Paint, 6" To 8" Diameter, Paint Steel Pipes .....	2.92	
For Electrostatic Painting, Add	0.36	
For Epoxy Paint, Add	0.29	
09 91 13 00-0350 LF 1 Coat Paint, 10" To 12" Diameter, Paint Steel Pipes .....	3.70	
For Electrostatic Painting, Add	0.46	
For Epoxy Paint, Add	0.37	
09 91 13 00-0351 LF 2 Coats Paint, 1/2" To 1-1/2" Diameter, Paint Conduit Or Steel Pipe .....	3.73	
For Electrostatic Painting, Add	0.49	
For Epoxy Paint, Add	0.42	
09 91 13 00-0352 LF 2 Coats Paint, 2" To 3-1/2" Diameter, Paint Conduit Or Steel Pipe .....	4.14	
For Electrostatic Painting, Add	0.52	
For Epoxy Paint, Add	0.42	
09 91 13 00-0353 LF 2 Coats Paint, 4" Diameter, Paint Steel Pipes .....	4.47	
For Electrostatic Painting, Add	0.56	
For Epoxy Paint, Add	0.46	
09 91 13 00-0354 LF 2 Coats Paint, 6" To 8" Diameter, Paint Steel Pipes .....	5.66	
For Electrostatic Painting, Add	0.71	
For Epoxy Paint, Add	0.57	
09 91 13 00-0355 LF 2 Coats Paint, 10" To 12" Diameter, Paint Steel Pipes .....	6.96	
For Electrostatic Painting, Add	0.88	
For Epoxy Paint, Add	0.71	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0356 EA 1 Coat Paint, Paint Exposed Single Or Double Gang Outlet Box ..... <i>For Electrostatic Painting, Add</i> <i>For Epoxy Paint, Add</i>	9.22 0.97 0.55	
<b>09 91 13 00-0357 Paint Metal Louvers</b> (09 91 13 00-0322)		
09 91 13 00-0358 SF 1 Coat Primer, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area..... <i>For Electrostatic Painting, Add</i>	1.52 0.18	
09 91 13 00-0359 SF 1 Coat Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area ..... <i>For Electrostatic Painting, Add</i>	1.54 0.18	
09 91 13 00-0360 SF 2 Coats Alkyd Paint, Brush/Roller Work, Paint Ventilation Louver, SF Of Opening Area..... <i>For Electrostatic Painting, Add</i>	3.17 0.38	
<b>09 91 13 00-0361 Paint Ladders</b> (09 91 13 00-0322)		
09 91 13 00-0362 LF 1 Coat Alkyd Primer, Brush/Roller Work, Paint Ladders ..... <i>For Epoxy Paint, Add</i>	4.19 0.25	
09 91 13 00-0363 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders ..... <i>For Epoxy Paint, Add</i>	4.69 0.28	
09 91 13 00-0364 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Ladders ..... <i>For Epoxy Paint, Add</i>	9.24 0.52	
<b>09 91 13 00-0365 Paint Handrails</b> (09 91 13 00-0322)		
09 91 13 00-0366 LF 1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket..... <i>For Epoxy Paint, Add</i>	1.67 0.13	
09 91 13 00-0367 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket..... <i>For Epoxy Paint, Add</i>	1.85 0.14	
09 91 13 00-0368 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Hand Rail And Bracket..... <i>For Epoxy Paint, Add</i>	3.05 0.20	
09 91 13 00-0369 LF 1 Coat Alkyd Primer, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.01 0.36	
09 91 13 00-0370 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.29 0.37	
09 91 13 00-0371 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 1 Rail, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	5.65 0.60	
09 91 13 00-0372 LF 1 Coat Alkyd Primer, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.24 0.37	
09 91 13 00-0373 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets..... <i>For Epoxy Paint, Add</i>	3.55 0.39	
09 91 13 00-0374 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, 2 Rails, Paint Pipe Rail And Pickets ..... <i>For Epoxy Paint, Add</i>	6.00 0.62	
09 91 13 00-0375 LF 1 Coat Alkyd Primer, Brush/Roller Work, Paint Balustrades..... <i>For Epoxy Paint, Add</i>	1.81 0.20	
09 91 13 00-0376 LF 1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades ..... <i>For Epoxy Paint, Add</i>	1.99 0.20	
09 91 13 00-0377 LF 2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Balustrades ..... <i>For Epoxy Paint, Add</i>	3.64 0.39	
<b>09 91 13 00-0378 Paint Grating</b> (09 91 13 00-0322)		
09 91 13 00-0379 SF 1 Coat Primer, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	3.05 0.20	
09 91 13 00-0380 SF 1 Coat Paint, Brush/Roller Work, Paint Gratings And Frames..... <i>For Epoxy Paint, Add</i>	3.10 0.22	
09 91 13 00-0381 SF 2 Coats Paint, Brush/Roller Work, Paint Gratings And Frames ..... <i>For Epoxy Paint, Add</i>	4.64 0.35	
<b>09 91 13 00-0382 Equipment And Tanks</b> (09 91 13 00-0322)		
<b>09 91 13 00-0383 Paint Valves</b> (09 91 13 00-0382) Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0384 EA Prime And Paint 4" And Smaller Valve .....	31.30	
09 91 13 00-0385 EA Prime And Paint 6" To 10" Valve .....	38.34	
09 91 13 00-0386 EA Prime And Paint 12" To 18" Valve .....	50.46	
09 91 13 00-0387 EA Prime And Paint 20" To 24" Valve .....	67.69	
09 91 13 00-0388 EA Prime And Paint >24" To 36" Valve .....	91.96	
09 91 13 00-0389 EA Prime And Paint >36" To 48" Valve .....	125.19	
<b>09 91 13 00-0390 Paint Pumps And Motors</b> (09 91 13 00-0382) Note: Includes 1 coat primer and 1 coat paint finish		
09 91 13 00-0391 EA Prime And Paint Pump Under 1 HP.....	95.83	
09 91 13 00-0392 EA Prime And Paint Pump, 1 HP To 5 HP.....	125.89	
09 91 13 00-0393 EA Prime And Paint Pump, >5 HP To 10 HP .....	150.86	
09 91 13 00-0394 EA Prime And Paint Pump, >10 HP To 20 HP .....	168.79	
09 91 13 00-0395 EA Prime And Paint Pump, >20 HP To 30 HP .....	196.92	
09 91 13 00-0396 EA Prime And Paint Pump, >30 HP To 50 HP .....	225.04	
09 91 13 00-0397 EA Prime And Paint Pump, >50 HP To 75 HP .....	248.09	
09 91 13 00-0398 EA Prime And Paint Pump, >75 HP.....	281.32	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>09 91 13 00-0399</b> <b>Paint Storage Tanks</b> <small>(09 91 13 00-0382)</small>		
09 91 13 00-0400    SF    1 Coat Primer, Roller, Paint Storage Tank, Exterior Surface .....	1.19	
09 91 13 00-0401    SF    1 Coat Paint, Roller, Paint Storage Tank, Exterior Surface .....	1.56	
09 91 13 00-0402    SF    2 Coats Paint, Roller, Paint Storage Tank, Exterior Surface .....	2.97	
09 91 13 00-0403    SF    1 Coat Primer, Roller, Paint Storage Tank, Interior Surface .....	1.63	
09 91 13 00-0404    SF    1 Coat Paint, Roller, Paint Storage Tank, Interior Surface .....	2.04	
09 91 13 00-0405    SF    2 Coats Paint, Roller, Paint Storage Tank, Interior Surface .....	3.92	
09 91 13 00-0406    SF    1 Coat Primer, Sprayed, Paint Storage Tank, Exterior Surface .....	1.20	
09 91 13 00-0407    SF    1 Coat Paint, Sprayed, Paint Storage Tank, Exterior Surface .....	1.46	
09 91 13 00-0408    SF    2 Coats Paint, Sprayed, Paint Storage Tank, Exterior Surface .....	2.83	
09 91 13 00-0409    SF    1 Coat Primer, Sprayed, Paint Storage Tank, Interior Surface .....	1.38	
09 91 13 00-0410    SF    1 Coat Paint, Sprayed, Paint Storage Tank, Interior Surface .....	1.81	
09 91 13 00-0411    SF    2 Coats Paint, Sprayed, Paint Storage Tank, Interior Surface .....	3.49	
<b>09 91 13 00-0412</b> <b>Other Site Work Painting</b> <small>(09 91 13)</small>		
<b>09 91 13 00-0413</b> <b>Paint Fencing</b> <small>(09 91 13 00-0412)</small>		
Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0414    SF    1 Coat Paint, Brush/Roller, Paint Existing Chain Link Fence .....	0.92	
<i>For Epoxy Paint, Add</i>	0.10	
<i>For Up To 100, Add</i>	0.59	
<i>For &gt;100 To 250, Add</i>	0.28	
<i>For &gt;250 To 500, Add</i>	0.12	
09 91 13 00-0415    SF    2 Coats Paint, Brush/Roller, Paint Existing Chain Link Fence .....	1.73	
<i>For Epoxy Paint, Add</i>	0.19	
<i>For Up To 100, Add</i>	1.09	
<i>For &gt;100 To 250, Add</i>	0.52	
<i>For &gt;250 To 500, Add</i>	0.22	
09 91 13 00-0416    SF    1 Coat Paint, Sprayed, Paint Existing Chain Link Fence .....	0.78	
<i>For Epoxy Paint, Add</i>	0.11	
<i>For Electrostatic Painting, Add</i>	0.11	
<i>For Up To 100, Add</i>	0.45	
<i>For &gt;100 To 250, Add</i>	0.22	
<i>For &gt;250 To 500, Add</i>	0.10	
09 91 13 00-0417    SF    2 Coats Paint, Sprayed, Paint Existing Chain Link Fence .....	1.45	
<i>For Epoxy Paint, Add</i>	0.20	
<i>For Electrostatic Painting, Add</i>	0.21	
<i>For Up To 100, Add</i>	0.82	
<i>For &gt;100 To 250, Add</i>	0.40	
<i>For &gt;250 To 500, Add</i>	0.17	
09 91 13 00-0418    SF    1 Coat Primer, Brush/Roller, Paint Wrought Iron Fence .....	0.84	
<i>For Epoxy Paint, Add</i>	0.11	
<i>For Up To 100, Add</i>	0.50	
<i>For &gt;100 To 250, Add</i>	0.24	
<i>For &gt;250 To 500, Add</i>	0.10	
09 91 13 00-0419    SF    1 Coat Paint, Brush/Roller, Paint Wrought Iron Fence .....	0.79	
<i>For Epoxy Paint, Add</i>	0.09	
<i>For Up To 100, Add</i>	0.49	
<i>For &gt;100 To 250, Add</i>	0.23	
<i>For &gt;250 To 500, Add</i>	0.10	
09 91 13 00-0420    SF    Each Additional Coat, Brush/Roller, Paint Wrought Iron Fence .....	0.56	
<i>For Epoxy Paint, Add</i>	0.08	
<i>For Up To 100, Add</i>	0.32	
<i>For &gt;100 To 250, Add</i>	0.15	
<i>For &gt;250 To 500, Add</i>	0.07	
09 91 13 00-0421    SF    1 Coat Primer, Brush/Roller, Paint Picket Fence .....	1.09	
<i>For Epoxy Paint, Add</i>	0.08	
<i>For Up To 100, Add</i>	0.76	
<i>For &gt;100 To 250, Add</i>	0.36	
<i>For &gt;250 To 500, Add</i>	0.15	
09 91 13 00-0422    SF    1 Coat Paint, Brush/Roller, Paint Picket Fence .....	1.09	
<i>For Epoxy Paint, Add</i>	0.08	
<i>For Up To 100, Add</i>	0.76	
<i>For &gt;100 To 250, Add</i>	0.36	
<i>For &gt;250 To 500, Add</i>	0.15	
09 91 13 00-0423    SF    Each Additional Coat, Brush/Roller, Paint Picket Fence .....	0.77	
<i>For Epoxy Paint, Add</i>	0.07	
<i>For Up To 100, Add</i>	0.52	
<i>For &gt;100 To 250, Add</i>	0.24	
<i>For &gt;250 To 500, Add</i>	0.11	
09 91 13 00-0424    SF    1 Coat Paint, Brush/Roller, Paint Wood Fences .....	0.78	
<i>For Up To 100, Add</i>	0.49	
<i>For &gt;100 To 250, Add</i>	0.23	
<i>For &gt;250 To 500, Add</i>	0.10	
09 91 13 00-0425    SF    2 Coats Paint, Brush/Roller, Paint Wood Fences .....	1.39	
<i>For Up To 100, Add</i>	0.85	
<i>For &gt;100 To 250, Add</i>	0.41	
<i>For &gt;250 To 500, Add</i>	0.18	
09 91 13 00-0426    SF    1 Coat Paint, Sprayed, Paint Wood Fences .....	0.58	
<i>For Up To 100, Add</i>	0.34	
<i>For &gt;100 To 250, Add</i>	0.16	
<i>For &gt;250 To 500, Add</i>	0.07	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0427	SF		2 Coats Paint, Sprayed, Paint Wood Fences.....	1.08	
			<i>For Up To 100, Add</i>	0.62	
			<i>For &gt;100 To 250, Add</i>	0.30	
			<i>For &gt;250 To 500, Add</i>	0.13	
<b>09 91 13 00-0428</b>			<b>Paint Shutters Or Blinds, Solid Panel</b> (09 91 13 00-0412)		
09 91 13 00-0429	SF		1 Coat Primer, Brush Work, Paint Shutter Or Blinds, Solid Panel.....	3.29	
09 91 13 00-0430	SF		1 Coat Paint, Brush Work, Paint Shutter Or Blinds, Solid Panel.....	3.30	
09 91 13 00-0431	SF		2 Coats Paint, Brush Work, Paint Shutter Or Blinds, Solid Panel.....	5.86	
09 91 13 00-0432	SF		1 Coat Primer, Sprayed, Paint Shutter Or Blinds, Solid Panel.....	1.90	
09 91 13 00-0433	SF		1 Coat Paint, Sprayed, Paint Shutter Or Blinds, Solid Panel.....	1.91	
09 91 13 00-0434	SF		2 Coats Paint, Sprayed, Paint Shutter Or Blinds, Solid Panel.....	3.54	
<b>09 91 13 00-0435</b>			<b>Paint Shutters Or Blinds, Louvered Panel</b> (09 91 13 00-0412)		
09 91 13 00-0436	SF		1 Coat Primer, Brush Work, Paint Shutter Or Blinds, Louvered Panel.....	4.07	
09 91 13 00-0437	SF		1 Coat Paint, Brush Work, Paint Shutter Or Blinds, Louvered Panel.....	4.08	
09 91 13 00-0438	SF		2 Coats Paint, Brush Work, Paint Shutter Or Blinds, Louvered Panel.....	7.25	
09 91 13 00-0439	SF		1 Coat Primer, Sprayed, Paint Shutter Or Blinds, Louvered Panel.....	2.32	
09 91 13 00-0440	SF		1 Coat Paint, Sprayed, Paint Shutter Or Blinds, Louvered Panel.....	2.33	
09 91 13 00-0441	SF		2 Coats Paint, Sprayed, Paint Shutter Or Blinds, Louvered Panel.....	4.31	
<b>09 91 13 00-0442</b>			<b>Paint Flagpoles</b> (09 91 13 00-0412)		
09 91 13 00-0443	EA		1 Coat Paint, 20' High, Paint Steel Flagpole.....	221.44	
09 91 13 00-0444	EA		1 Coat Paint, 30' High, Paint Steel Flagpole.....	298.28	
09 91 13 00-0445	EA		1 Coat Paint, 40' High, Paint Steel Flagpole.....	375.16	
09 91 13 00-0446	EA		1 Coat Paint, 50' High, Paint Steel Flagpole.....	452.06	
09 91 13 00-0447	EA		1 Coat Paint, 70' High, Paint Steel Flagpole.....	597.98	
09 91 13 00-0448	EA		1 Coat Paint, 80' High, Paint Steel Flagpole.....	673.88	
09 91 13 00-0449	EA		1 Coat Paint, 90' High, Paint Steel Flagpole.....	749.79	
<b>09 91 13 00-0450</b>			<b>Paint Lattice Or Trellis</b> (09 91 13 00-0412)		
09 91 13 00-0451	SF		1 Coat Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis.....	1.49	
			<i>For Up To 100, Add</i>	1.02	
			<i>For &gt;100 To 250, Add</i>	0.48	
			<i>For &gt;250 To 500, Add</i>	0.21	
09 91 13 00-0452	SF		2 Coats Paint, Sprayed, Per Side, Paint Wood Lattice Or Trellis.....	2.76	
			<i>For Up To 100, Add</i>	1.88	
			<i>For &gt;100 To 250, Add</i>	0.89	
			<i>For &gt;250 To 500, Add</i>	0.38	
<b>09 91 13 00-0453</b>			<b>Paint Exterior Stairs</b> (09 91 13)		
<b>09 91 13 00-0454</b>			<b>Paint Exterior Concrete Stairs</b> (09 91 13 00-0453)		
09 91 13 00-0455	RSR		1 Coat Primer, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	18.15	
09 91 13 00-0456	RSR		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	18.15	
09 91 13 00-0457	RSR		1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	24.22	
09 91 13 00-0458	RSR		1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	41.53	
09 91 13 00-0459	RSR		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Concrete Stair (To 4' Wide).....	36.31	
<b>09 91 13 00-0460</b>			<b>Paint Exterior Metal Stairs</b> (09 91 13 00-0453)		
09 91 13 00-0461	RSR		1 Coat Primer, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	9.54	
			<i>For Oil Based Paint, Add</i>	0.51	
09 91 13 00-0462	RSR		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	9.54	
			<i>For Oil Based Paint, Add</i>	0.51	
09 91 13 00-0463	RSR		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Metal Stair (To 4' Wide).....	19.09	
			<i>For Oil Based Paint, Add</i>	1.03	
<b>09 91 13 00-0464</b>			<b>Paint Exterior Wood Stairs</b> (09 91 13 00-0453)		
09 91 13 00-0465	RSR		1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	9.35	
09 91 13 00-0466	RSR		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	9.35	
09 91 13 00-0467	RSR		1 Coat Non-Slip Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	15.42	
09 91 13 00-0468	RSR		1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	32.73	
09 91 13 00-0469	RSR		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Wood Stair (To 4' Wide).....	18.70	
<b>09 91 13 00-0470</b>			<b>Paint Exterior Stair Nosing</b> (09 91 13 00-0453)		
09 91 13 00-0471	LF		1 Coat Paint, Up To 2", Non-Slip, Brush Work, Paint Exterior Yellow Stair Safety Strip.....	1.79	
<b>09 91 13 00-0472</b>			<b>Paint Exterior Trim</b> (09 91 13)		
<b>09 91 13 00-0473</b>			<b>Paint Exterior Metal Trim And Gutters</b> (09 91 13 00-0472)		
09 91 13 00-0474	SF		1 Coat Primer, Brush Work, Paint Exterior Exposed Metal Trim.....	1.23	
09 91 13 00-0475	SF		1 Coat Paint, Brush Work, Paint Exterior Exposed Metal Trim.....	1.35	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0476 SF	2 Coats Paint, Brush Work, Paint Exterior Exposed Metal Trim .....	2.42
09 91 13 00-0477 SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Exposed Metal Trim .....	1.12
09 91 13 00-0478 SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim .....	1.22
09 91 13 00-0479 SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Exposed Metal Trim .....	2.17
09 91 13 00-0480 LF	1 Coat Paint, Brush Work, Paint Exterior Gutter And Downspout.....	1.94
09 91 13 00-0481 LF	2 Coats Paint, Brush Work, Paint Exterior Gutter And Downspout.....	2.50
<b>09 91 13 00-0482</b>	<b>Paint Exterior Wood Trim (09 91 13 00-0472)</b>	
09 91 13 00-0483 SF	1 Coat Primer, Brush Work, Paint Exterior Wood Trim .....	1.76
	<i>For Oil Based Paint, Add</i>	0.10
	<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.22
	<i>Note: Applied only to work area above 15' to 20'.</i>	
	<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.37
	<i>Note: Applied only to work area above 20'.</i>	
	<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.59
	<i>Note: Applied only to work area above 30' to 40'.</i>	
	<i>For Work &gt;40' Above Floor, Add</i>	0.81
	<i>Note: Applied only to work area above 40'.</i>	
	<i>For Up To 100, Add</i>	1.15
	<i>For &gt;100 To 250, Add</i>	0.54
	<i>For &gt;250 To 500, Add</i>	0.24
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.09
	<i>For &gt;5,000 To 10,000, Deduct</i>	-0.18
	<i>For &gt;10,000 To 20,000, Deduct</i>	-0.26
	<i>For &gt;20,000, Deduct</i>	-0.35
09 91 13 00-0484 SF	1 Coat Paint, Brush Work, Paint Exterior Wood Trim .....	1.91
	<i>For Oil Based Paint, Add</i>	0.11
	<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.24
	<i>Note: Applied only to work area above 15' to 20'.</i>	
	<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.40
	<i>Note: Applied only to work area above 20'.</i>	
	<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.64
	<i>Note: Applied only to work area above 30' to 40'.</i>	
	<i>For Work &gt;40' Above Floor, Add</i>	0.87
	<i>Note: Applied only to work area above 40'.</i>	
	<i>For Up To 100, Add</i>	1.24
	<i>For &gt;100 To 250, Add</i>	0.59
	<i>For &gt;250 To 500, Add</i>	0.25
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10
	<i>For &gt;5,000 To 10,000, Deduct</i>	-0.19
	<i>For &gt;10,000 To 20,000, Deduct</i>	-0.29
	<i>For &gt;20,000, Deduct</i>	-0.38
09 91 13 00-0485 SF	2 Coats Paint, Brush Work, Paint Exterior Wood Trim.....	3.48
	<i>For Oil Based Paint, Add</i>	0.21
	<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.42
	<i>Note: Applied only to work area above 15' to 20'.</i>	
	<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.71
	<i>Note: Applied only to work area above 20'.</i>	
	<i>For Work &gt;30' To 40' Above Floor, Add</i>	1.13
	<i>Note: Applied only to work area above 30' to 40'.</i>	
	<i>For Work &gt;40' Above Floor, Add</i>	1.56
	<i>Note: Applied only to work area above 40'.</i>	
	<i>For Up To 100, Add</i>	2.22
	<i>For &gt;100 To 250, Add</i>	1.06
	<i>For &gt;250 To 500, Add</i>	0.46
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.17
	<i>For &gt;5,000 To 10,000, Deduct</i>	-0.35
	<i>For &gt;10,000 To 20,000, Deduct</i>	-0.52
	<i>For &gt;20,000, Deduct</i>	-0.70
09 91 13 00-0486 SF	1 Coat Primer, Brush/Roller Work, Paint Exterior Wood Trim.....	1.39
	<i>For Oil Based Paint, Add</i>	0.08
	<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17
	<i>Note: Applied only to work area above 15' to 20'.</i>	
	<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.28
	<i>Note: Applied only to work area above 20'.</i>	
	<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.44
	<i>Note: Applied only to work area above 30' to 40'.</i>	
	<i>For Work &gt;40' Above Floor, Add</i>	0.61
	<i>Note: Applied only to work area above 40'.</i>	
	<i>For Up To 100, Add</i>	0.87
	<i>For &gt;100 To 250, Add</i>	0.41
	<i>For &gt;250 To 500, Add</i>	0.18
	<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07
	<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14
	<i>For &gt;10,000 To 20,000, Deduct</i>	-0.21
	<i>For &gt;20,000, Deduct</i>	-0.28

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0487	SF	1 Coat Paint, Brush/Roller Work, Paint Exterior Wood Trim .....	1.55	
			For Oil Based Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.31	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.49	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.68	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.97	
			For >100 To 250, Add	0.46	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.23	
			For >20,000, Deduct	-0.31	
09 91	13 00-0488	SF	2 Coats Paint, Brush/Roller Work, Paint Exterior Wood Trim .....	2.88	
			For Oil Based Paint, Add	0.18	
			For Work >15' To 20' Above Floor, Add	0.33	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.56	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.89	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.23	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.77	
			For >100 To 250, Add	0.85	
			For >250 To 500, Add	0.37	
			For >2,500 To 5,000, Deduct	-0.14	
			For >5,000 To 10,000, Deduct	-0.29	
			For >10,000 To 20,000, Deduct	-0.43	
			For >20,000, Deduct	-0.58	
09 91	13 00-0489	SF	1 Coat Primer, Sprayed, Paint Exterior Wood Trim .....	1.06	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.11	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.18	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.28	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.39	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91	13 00-0490	SF	1 Coat Paint, Sprayed, Paint Exterior Wood Trim .....	1.19	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.46	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91	13 00-0491	SF	2 Coats Paint, Sprayed, Paint Exterior Wood Trim .....	2.24	
			For Oil Based Paint, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.38	
			Note: Applied only to work area above 20'.		
			For Work >30' To 40' Above Floor, Add	0.61	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.84	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.25	
			For >100 To 250, Add	0.61	
			For >250 To 500, Add	0.27	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.34	
			For >20,000, Deduct	-0.45	



<b>Finishes</b>	<b>09</b>	<b>9</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>09 91 13 00-0492</b> <b>Paint Exterior Miscellaneous Metal Surfaces</b> <small>(09 91 13)</small>		
09 91 13 00-0493    SF    1 Coat Alkyd Anticorrosive Metal Primer, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces.....	1.46	
<i>For Epoxy Paint, Add</i>	0.16	
<i>For Electrostatic Painting, Add</i>	0.19	
09 91 13 00-0494    SF    1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces .....	1.36	
<i>For Epoxy Paint, Add</i>	0.13	
<i>For Electrostatic Painting, Add</i>	0.17	
09 91 13 00-0495    SF    2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exterior Miscellaneous Metal Surfaces .....	2.75	
<i>For Epoxy Paint, Add</i>	0.27	
<i>For Electrostatic Painting, Add</i>	0.34	
 <b>09 91 23</b> <b>Interior Painting</b> <small>(09 91)</small>		
Note: Acrylic latex paint unless otherwise stated. VOC compliant in all regulated areas, review specifications for levels. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss. See CSI section 09 91 13 00-0322 for additional interior materials.		
<b>09 91 23 00-0001</b> <b>Paint Interior Walls</b> <small>(09 91 23)</small>		
<b>09 91 23 00-0002</b> <b>Paint Interior Brick Walls</b> <small>(09 91 23 00-0001)</small>		
09 91 23 00-0003    LF    1 Coat Paint, Cut-in Brush Work, Paint Interior Brick Walls .....	0.23	
<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.03	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.05	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.08	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work &gt;40' Above Floor, Add</i>	0.10	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	0.15	
<i>For &gt;100 To 250, Add</i>	0.07	
<i>For &gt;250 To 500, Add</i>	0.03	
<i>For &gt;2,500 To 5,000, Deduct</i>	-0.01	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
<i>For &gt;10,000 To 20,000, Deduct</i>	-0.03	
<i>For &gt;20,000, Deduct</i>	-0.05	
09 91 23 00-0004    SF    1 Coat Filler, Brush Work, Paint Interior Brick Walls .....	1.15	
<i>For Oil Based Paint, Add</i>	0.07	
<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.38	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work &gt;40' Above Floor, Add</i>	0.53	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	0.75	
<i>For &gt;100 To 250, Add</i>	0.36	
<i>For &gt;250 To 500, Add</i>	0.15	
<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 23 00-0005    SF    1 Coat Paint, Brush Work, Paint Interior Brick Walls .....	1.34	
<i>For Oil Based Paint, Add</i>	0.08	
<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.28	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.44	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work &gt;40' Above Floor, Add</i>	0.61	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	0.87	
<i>For &gt;100 To 250, Add</i>	0.41	
<i>For &gt;250 To 500, Add</i>	0.18	
<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
<i>For &gt;10,000 To 20,000, Deduct</i>	-0.20	
<i>For &gt;20,000, Deduct</i>	-0.27	
09 91 23 00-0006    SF    2 Coat Paint, Brush Work, Paint Interior Brick Walls .....	2.38	
<i>For Oil Based Paint, Add</i>	0.14	
<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.29	
<i>Note: Applied only to work area above 15' to 20'.</i>		
<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.48	
<i>Note: Applied only to work area above 20' to 30'.</i>		
<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.77	
<i>Note: Applied only to work area above 30' to 40'.</i>		
<i>For Work &gt;40' Above Floor, Add</i>	1.06	
<i>Note: Applied only to work area above 40'.</i>		
<i>For Up To 100, Add</i>	1.52	
<i>For &gt;100 To 250, Add</i>	0.72	
<i>For &gt;250 To 500, Add</i>	0.31	
<i>For &gt;2,500 To 5,000, Deduct</i>	-0.12	
<i>For &gt;5,000 To 10,000, Deduct</i>	-0.24	
<i>For &gt;10,000 To 20,000, Deduct</i>	-0.36	
<i>For &gt;20,000, Deduct</i>	-0.48	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0007	SF	1	Coat Filler, Brush/Roller Work, Paint Interior Brick Walls.....	0.94	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.41	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.59	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.19	
09 91 23 00-0008	SF	1	Coat Paint, Brush/Roller Work, Paint Interior Brick Walls.....	1.16	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.70	
			<i>For &gt;100 To 250, Add</i>	0.33	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 23 00-0009	SF	2	Coats Paint, Brush/Roller Work, Paint Interior Brick Walls.....	2.01	
			<i>For Oil Based Paint, Add</i>	0.13	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.60	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.82	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.20	
			<i>For &gt;100 To 250, Add</i>	0.57	
			<i>For &gt;250 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.20	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.30	
			<i>For &gt;20,000, Deduct</i>	-0.40	
09 91 23 00-0010	SF	1	Coat Filler, Sprayed, Paint Interior Brick Walls.....	0.79	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.45	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.16	
09 91 23 00-0011	SF	1	Coat Paint, Sprayed, Paint Interior Brick Walls.....	0.87	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.46	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.13	
			<i>For &gt;20,000, Deduct</i>	-0.17	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0012 SF 2 Coats Paint, Sprayed, Paint Interior Brick Walls .....	1.50	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 23 00-0013 SF 1 Coat Bonding Agent, Brush Work, Paint Interior Brick Walls .....	1.19	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0014 SF 1 Coat Bonding Agent, Brush/Roller Work, Paint Interior Brick Walls .....	0.98	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.30	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.41	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0015 SF 1 Coat Bonding Agent, Sprayed, Paint Interior Brick Walls .....	0.83	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.17	
<b>09 91 23 00-0016 Paint Interior Concrete Walls (09 91 23 00-0001)</b> .....	<b>0.18</b>	
09 91 23 00-0017 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Concrete Walls .....	0.18	
For Work >15' To 20' Above Floor, Add	0.02	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.04	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.06	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.09	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.12	
For >100 To 250, Add	0.06	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0018	SF		1 Coat Filler, Brush Work, Paint Interior Concrete Walls .....	0.98	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.64	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 23 00-0019	SF		1 Coat Paint, Brush Work, Paint Interior Concrete Walls .....	1.08	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.24	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.38	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.52	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.73	
			For >100 To 250, Add	0.35	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.22	
09 91 23 00-0020	SF		2 Coats Paint, Brush Work, Paint Interior Concrete Walls .....	2.01	
			For Oil Based Paint, Add	0.11	
			For Epoxy Paint, Add	0.17	
			For Work >15' To 20' Above Floor, Add	0.27	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.44	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.71	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.97	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.36	
			For >100 To 250, Add	0.64	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.20	
			For >10,000 To 20,000, Deduct	-0.30	
			For >20,000, Deduct	-0.40	
09 91 23 00-0021	SF		1 Coat Filler, Brush/Roller Work, Paint Interior Concrete Walls .....	0.79	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.09	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.25	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.35	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0022 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Concrete Walls .....	0.90	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.19	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.42	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 23 00-0023 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Concrete Walls .....	1.65	
For Oil Based Paint, Add	0.10	
For Epoxy Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.35	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.56	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.76	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.08	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 23 00-0024 SF 1 Coat Filler, Sprayed, Paint Interior Concrete Walls.....	0.62	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.11	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.17	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.24	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 23 00-0025 SF 1 Coat Paint, Sprayed, Paint Interior Concrete Walls .....	0.72	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0026	SF		2 Coats Paint, Sprayed, Paint Interior Concrete Walls .....	1.15	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Epoxy Paint, Add</i>	0.15	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.67	
			<i>For &gt;100 To 250, Add</i>	0.32	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 23 00-0027	SF		1 Coat Bonding Agent, Brush Work, Paint Interior Concrete Walls.....	1.01	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.45	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.64	
			<i>For &gt;100 To 250, Add</i>	0.31	
			<i>For &gt;250 To 500, Add</i>	0.13	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.20	
09 91 23 00-0028	SF		1 Coat Bonding Agent, Brush/Roller Work, Paint Interior Concrete Walls .....	0.82	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.50	
			<i>For &gt;100 To 250, Add</i>	0.24	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.16	
09 91 23 00-0029	SF		1 Coat Bonding Agent, Sprayed, Paint Interior Concrete Walls .....	0.66	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.36	
			<i>For &gt;100 To 250, Add</i>	0.17	
			<i>For &gt;250 To 500, Add</i>	0.08	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.03	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.07	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.10	
			<i>For &gt;20,000, Deduct</i>	-0.13	
09 91 23 00-0030			Paint Interior Concrete Block Walls <small>(09 91 23 00-0001)</small>		
09 91 23 00-0031			Paint Interior Concrete Block Walls, Epoxy Paint <small>(09 91 23 00-0030)</small>		
09 91 23 00-0032	LF		1 Coat Epoxy Paint, Cut-in Brush Work, Paint Interior Concrete Block Walls.....	0.49	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.03	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.19	
			<i>For &gt;100 To 250, Add</i>	0.10	
			<i>For &gt;250 To 500, Add</i>	0.04	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.02	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.05	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.07	
			<i>For &gt;20,000, Deduct</i>	-0.10	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0033 SF 1 Coat Epoxy Filler, Brush Work, Paint Interior Concrete Block Walls.....	1.36	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.85	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 23 00-0034 SF 1 Coat Epoxy Paint, Brush Work, Paint Interior Concrete Block Walls .....	1.58	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.32	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.52	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.71	
Note: Applied only to work area above 40'		
For Up To 100, Add	1.01	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.16	
For >10,000 To 20,000, Deduct	-0.24	
For >20,000, Deduct	-0.32	
09 91 23 00-0035 SF 2 Coats Epoxy Paint, Brush Work, Paint Interior Concrete Block Walls .....	2.81	
For Work >15' To 20' Above Floor, Add	0.33	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.56	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.89	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	1.23	
Note: Applied only to work area above 40'		
For Up To 100, Add	1.76	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.42	
For >20,000, Deduct	-0.56	
09 91 23 00-0036 SF 1 Coat Epoxy Filler, Brush/Roller Work, Paint Interior Concrete Block Walls .....	1.11	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 23 00-0037 SF 1 Coat Epoxy Paint, Brush/Roller Work, Paint Interior Concrete Block Walls.....	1.23	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0038	SF		2 Coats Epoxy Paint, Brush/Roller Work, Paint Interior Concrete Block Walls.....	2.31	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.69	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.95	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.38	
			<i>For &gt;100 To 250, Add</i>	0.66	
			<i>For &gt;250 To 500, Add</i>	0.29	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.12	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.23	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.35	
			<i>For &gt;20,000, Deduct</i>	-0.46	
09 91 23 00-0039	SF		1 Coat Epoxy Filler, Sprayed, Paint Interior Concrete Block Walls.....	0.86	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.43	
			<i>For &gt;100 To 250, Add</i>	0.21	
			<i>For &gt;250 To 500, Add</i>	0.09	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.13	
			<i>For &gt;20,000, Deduct</i>	-0.17	
09 91 23 00-0040	SF		1 Coat Epoxy Paint, Sprayed, Paint Interior Concrete Block Walls.....	1.05	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.57	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.16	
			<i>For &gt;20,000, Deduct</i>	-0.21	
09 91 23 00-0041	SF		2 Coats Epoxy Paint, Sprayed, Paint Interior Concrete Block Walls.....	1.90	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.64	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.98	
			<i>For &gt;100 To 250, Add</i>	0.48	
			<i>For &gt;250 To 500, Add</i>	0.21	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.19	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.29	
			<i>For &gt;20,000, Deduct</i>	-0.38	
09 91 23 00-0042			<b>Paint Interior Concrete Block Walls, Acrylic Latex Paint</b> <small>(09 91 23 00-0030)</small>		
09 91 23 00-0043	LF		1 Coat Paint, Cut-in Brush Work, Paint Interior Concrete Block Walls.....	0.24	
			<i>For Oil Based Paint, Add</i>	0.01	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.03	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.16	
			<i>For &gt;100 To 250, Add</i>	0.07	
			<i>For &gt;250 To 500, Add</i>	0.03	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.01	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.04	
			<i>For &gt;20,000, Deduct</i>	-0.05	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0044 SF 1 Coat Filler, Brush Work, Paint Interior Concrete Block Walls .....	1.26	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 23 00-0045 SF 1 Coat Paint, Brush Work, Paint Interior Concrete Block Walls .....	1.50	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.50	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.68	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.97	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.30	
09 91 23 00-0046 SF 2 Coats Paint, Brush Work, Paint Interior Concrete Block Walls .....	2.72	
For Oil Based Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.33	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.55	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.88	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.73	
For >100 To 250, Add	0.82	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.27	
For >10,000 To 20,000, Deduct	-0.41	
For >20,000, Deduct	-0.54	
09 91 23 00-0047 SF 1 Coat Texture Paint, Brush Work, Paint Interior Concrete Block Walls .....	1.67	
For Oil Based Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.21	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.35	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.55	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.76	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.08	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 23 00-0048 SF 1 Coat Filler, Brush/Roller Work, Paint Interior Concrete Block Walls .....	1.06	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0049	SF	1	Coat Paint, Brush/Roller Work, Paint Interior Concrete Block Walls.....	1.26	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.55	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.79	
			<i>For &gt;100 To 250, Add</i>	0.38	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.19	
			<i>For &gt;20,000, Deduct</i>	-0.25	
09 91 23 00-0050	SF	2	Coats Paint, Brush/Roller Work, Paint Interior Concrete Block Walls.....	2.26	
			<i>For Oil Based Paint, Add</i>	0.14	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.44	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.70	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.96	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.38	
			<i>For &gt;100 To 250, Add</i>	0.66	
			<i>For &gt;250 To 500, Add</i>	0.29	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.11	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.23	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.34	
			<i>For &gt;20,000, Deduct</i>	-0.45	
09 91 23 00-0051	SF	1	Coat Texture Paint, Brush/Roller Work, Paint Interior Concrete Block Walls.....	1.41	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.45	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.62	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.88	
			<i>For &gt;100 To 250, Add</i>	0.42	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.21	
			<i>For &gt;20,000, Deduct</i>	-0.28	
09 91 23 00-0052	SF	1	Coat Filler, Sprayed, Paint Interior Concrete Block Walls.....	0.88	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.50	
			<i>For &gt;100 To 250, Add</i>	0.24	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.13	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 23 00-0053	SF	1	Coat Paint, Sprayed, Paint Interior Concrete Block Walls.....	1.01	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.57	
			<i>For &gt;100 To 250, Add</i>	0.27	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.20	





<b>Finishes</b>	<b>09</b>	
<b>Painting and Coating</b>	<b>09 90</b>	<b>90</b>
<b>Painting</b>	<b>09 91</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0054 SF 2 Coats Paint, Sprayed, Paint Interior Concrete Block Walls.....	1.65	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.42	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.87	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 23 00-0055 SF 1 Coat Texture Paint, Sprayed, Paint Interior Concrete Block Walls .....	1.18	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.65	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
<b>09 91 23 00-0056 Paint Interior Concrete Block Walls With Bonding Agent</b> (09 91 23 00-0030)		
09 91 23 00-0057 SF 1 Coat Bonding Agent, Brush Work, Paint Interior Concrete Block Walls .....	1.30	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.43	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.59	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 23 00-0058 SF 1 Coat Bonding Agent, Brush/Roller Work, Paint Interior Concrete Block Walls .....	1.10	
For Work >15' To 20' Above Floor, Add	0.13	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.22	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.35	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.48	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.69	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 23 00-0059 SF 1 Coat Bonding Agent, Sprayed, Paint Interior Concrete Block Walls .....	0.93	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.51	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 23 00-0060	Paint Interior Plaster/Drywall Walls <small>(09 91 23 00-0001)</small>		
09 91 23 00-0061	Paint Interior Plaster/Drywall Walls <small>(09 91 23 00-0060)</small>		
09 91 23 00-0062	LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Plaster/Drywall Walls .....0.18		
	For Oil Based Paint, Add	0.01	
	For Work >15' To 20' Above Floor, Add	0.02	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.04	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.06	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.09	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.12	
	For >100 To 250, Add	0.06	
	For >250 To 500, Add	0.03	
	For >2,500 To 5,000, Deduct	-0.01	
	For >5,000 To 10,000, Deduct	-0.02	
	For >10,000 To 20,000, Deduct	-0.03	
	For >20,000, Deduct	-0.04	
09 91 23 00-0063	SF 1 Coat Primer, Brush Work, Paint Interior Plaster/Drywall Walls .....1.03		
	For Oil Based Paint, Add	0.06	
	For Orange Peel Finish, Add	0.14	
	For Epoxy Paint, Add	0.10	
	For Work >15' To 20' Above Floor, Add	0.13	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.22	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.35	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.48	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.68	
	For >100 To 250, Add	0.32	
	For >250 To 500, Add	0.14	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.15	
	For >20,000, Deduct	-0.21	
09 91 23 00-0064	SF 1 Coat Paint, Brush Work, Paint Interior Plaster/Drywall Walls .....1.09		
	For Oil Based Paint, Add	0.06	
	For Orange Peel Finish, Add	0.16	
	For Epoxy Paint, Add	0.09	
	For Work >15' To 20' Above Floor, Add	0.14	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.24	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.38	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.53	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.74	
	For >100 To 250, Add	0.35	
	For >250 To 500, Add	0.15	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.16	
	For >20,000, Deduct	-0.22	
09 91 23 00-0065	SF 2 Coats Paint, Brush Work, Paint Interior Plaster/Drywall Walls .....1.99		
	For Oil Based Paint, Add	0.11	
	For Orange Peel Finish, Add	0.28	
	For Epoxy Paint, Add	0.18	
	For Work >15' To 20' Above Floor, Add	0.26	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.43	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.69	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.95	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.34	
	For >100 To 250, Add	0.63	
	For >250 To 500, Add	0.27	
	For >2,500 To 5,000, Deduct	-0.10	
	For >5,000 To 10,000, Deduct	-0.20	
	For >10,000 To 20,000, Deduct	-0.30	
	For >20,000, Deduct	-0.40	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0066 SF 3 Coats Paint, Brush Work, Paint Interior Plaster/Drywall Walls.....	2.85	
For Oil Based Paint, Add	0.16	
For Orange Peel Finish, Add	0.40	
For Epoxy Paint, Add	0.26	
For Work >15' To 20' Above Floor, Add	0.37	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.62	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.98	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.35	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.90	
For >100 To 250, Add	0.90	
For >250 To 500, Add	0.39	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.29	
For >10,000 To 20,000, Deduct	-0.43	
For >20,000, Deduct	-0.57	
09 91 23 00-0067 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Plaster/Drywall Walls.....	0.81	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.11	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.26	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.36	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0068 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Plaster/Drywall Walls.....	0.93	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.13	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 23 00-0069 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Plaster/Drywall Walls.....	1.65	
For Oil Based Paint, Add	0.10	
For Orange Peel Finish, Add	0.23	
For Epoxy Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.20	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.34	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.54	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.75	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.06	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0070	SF		1 Coat Primer, Sprayed, Paint Interior Plaster/Drywall Walls.....	0.66	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Epoxy Paint, Add</i>	0.09	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.07	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.26	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.38	
			<i>For &gt;100 To 250, Add</i>	0.18	
			<i>For &gt;250 To 500, Add</i>	0.08	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.03	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.07	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.10	
			<i>For &gt;20,000, Deduct</i>	-0.13	
09 91 23 00-0071	SF		1 Coat Paint, Sprayed, Paint Interior Plaster/Drywall Walls.....	0.72	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Epoxy Paint, Add</i>	0.08	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.44	
			<i>For &gt;100 To 250, Add</i>	0.21	
			<i>For &gt;250 To 500, Add</i>	0.09	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.07	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.11	
			<i>For &gt;20,000, Deduct</i>	-0.14	
09 91 23 00-0072	SF		2 Coats Paint, Sprayed, Paint Interior Plaster/Drywall Walls.....	1.15	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Epoxy Paint, Add</i>	0.15	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.67	
			<i>For &gt;100 To 250, Add</i>	0.32	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 23 00-0073			<b>Paint Interior Plaster/Drywall Or Masonry Walls With Polymix Multi-Color</b>		
			<b>Paint</b> <small>(09 91 23 00-0060)</small>		
09 91 23 00-0074	SF		2 Tone Polymix With Base Coat, Sprayed, Paint Interior Plaster/Drywall Or Masonry Walls.....	1.95	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.25	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.39	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.54	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.88	
			<i>For &gt;100 To 250, Add</i>	0.44	
			<i>For &gt;250 To 500, Add</i>	0.20	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.20	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.29	
			<i>For &gt;20,000, Deduct</i>	-0.39	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0075 SF 3 Tone Polymix With Base Coat, Sprayed, Paint Interior Plaster/Drywall Or Masonry Walls .....	2.11	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.39	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.54	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.90	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.42	
09 91 23 00-0076 SF 4 Tone Polymix With Base Coat, Sprayed, Paint Interior Plaster/Drywall Or Masonry Walls .....	2.27	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.39	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.54	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.93	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.34	
For >20,000, Deduct	-0.45	
<b>09 91 23 00-0077 Paint Interior Plaster/Drywall Walls, Acoustic Texture (09 91 23 00-0060)</b> .....	0.81	
09 91 23 00-0078 SF 1 Coat Primer, Sprayed, Acoustic Texture, Paint Interior Plaster/Drywall Walls .....	0.81	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.22	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.30	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0079 SF 1 Coat Finish, Sprayed, Acoustic Texture, Paint Interior Plaster/Drywall Walls .....	0.96	
For Work >15' To 20' Above Floor, Add	0.11	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.18	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.39	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 23 00-0080 SF 2 Coats Finish, Sprayed, Acoustic Texture, Paint Interior Plaster/Drywall Walls .....	1.49	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'		
For Work >30' To 40' Above Floor, Add	0.39	
Note: Applied only to work area above 30' to 40'		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'		
For Up To 100, Add	0.81	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0081	SF		Stipple Finish (Drippowder), Paint Interior Plaster/Drywall Walls.....	1.63	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.61	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.84	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.16	
			<i>For &gt;100 To 250, Add</i>	0.55	
			<i>For &gt;250 To 500, Add</i>	0.23	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.16	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.24	
			<i>For &gt;20,000, Deduct</i>	-0.33	
09 91 23 00-0082			<b>Paint Interior Metal Walls</b> (09 91 23 00-0001)		
09 91 23 00-0083			<b>Paint Interior Galvanized Walls</b> (09 91 23 00-0082)		
			<i>Note: Linseed oil or acrylic latex paint.</i>		
09 91 23 00-0084	SF		1 Coat Primer, Brush Work, Paint Interior Galvanized Wall Surfaces.....	1.26	
			<i>For Electrostatic Painting, Add</i>	0.17	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.77	
			<i>For &gt;100 To 250, Add</i>	0.37	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.19	
			<i>For &gt;20,000, Deduct</i>	-0.25	
09 91 23 00-0085	SF		1 Coat Paint, Brush Work, Paint Interior Galvanized Wall Surfaces.....	1.40	
			<i>For Electrostatic Painting, Add</i>	0.19	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.44	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.61	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.87	
			<i>For &gt;100 To 250, Add</i>	0.42	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.21	
			<i>For &gt;20,000, Deduct</i>	-0.28	
09 91 23 00-0086	SF		2 Coats Paint, Brush Work, Paint Interior Galvanized Wall Surfaces.....	2.53	
			<i>For Electrostatic Painting, Add</i>	0.34	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.77	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	1.06	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.53	
			<i>For &gt;100 To 250, Add</i>	0.73	
			<i>For &gt;250 To 500, Add</i>	0.32	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.13	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.25	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.38	
			<i>For &gt;20,000, Deduct</i>	-0.51	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0087 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Galvanized Walls.....	0.94	
For Electrostatic Painting, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 23 00-0088 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Galvanized Wall.....	1.09	
For Electrostatic Painting, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 23 00-0089 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Galvanized Walls .....	2.04	
For Electrostatic Painting, Add	0.28	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.38	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.61	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.84	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.22	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.20	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 91 23 00-0090 SF 1 Coat Primer, Sprayed, Paint Interior Galvanized Walls .....	0.74	
For Electrostatic Painting, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.06	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.10	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.16	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.21	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 23 00-0091 SF 1 Coat Paint, Sprayed, Paint Interior Galvanized Walls.....	0.97	
For Electrostatic Painting, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0092	SF		2 Coats Paint, Sprayed, Paint Interior Galvanized Walls .....	1.62	
			<i>For Electrostatic Painting, Add</i>	0.27	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.51	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.80	
			<i>For &gt;100 To 250, Add</i>	0.39	
			<i>For &gt;250 To 500, Add</i>	0.17	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.16	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.24	
			<i>For &gt;20,000, Deduct</i>	-0.32	
09 91 23 00-0093			<b>Paint Interior Aluminum And Aluminum Alloy Walls</b> (09 91 23 00-0082)		
			<i>Note: Alkyd enamel paint.</i>		
09 91 23 00-0094	SF		1 Coat Primer, Brush Work, Paint Interior Aluminum And Aluminum Alloy Wall Surfaces .....	1.26	
			<i>For Electrostatic Painting, Add</i>	0.17	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.77	
			<i>For &gt;100 To 250, Add</i>	0.37	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.19	
			<i>For &gt;20,000, Deduct</i>	-0.25	
09 91 23 00-0095	SF		1 Coat Paint, Brush Work, Paint Interior Aluminum And Aluminum Alloy Wall Surfaces .....	1.40	
			<i>For Electrostatic Painting, Add</i>	0.19	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.44	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.61	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.87	
			<i>For &gt;100 To 250, Add</i>	0.42	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.21	
			<i>For &gt;20,000, Deduct</i>	-0.28	
09 91 23 00-0096	SF		2 Coats Paint, Brush Work, Paint Interior Aluminum And Aluminum Alloy Wall Surfaces .....	2.52	
			<i>For Electrostatic Painting, Add</i>	0.34	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.77	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	1.06	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.53	
			<i>For &gt;100 To 250, Add</i>	0.73	
			<i>For &gt;250 To 500, Add</i>	0.32	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.13	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.25	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.38	
			<i>For &gt;20,000, Deduct</i>	-0.50	





<b>Finishes</b>	<b>09</b>	<b>09</b>
<b>Painting and Coating</b>	<b>09 90</b>	
<b>Painting</b>	<b>09 91</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0097 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Walls.....	1.04	
For Electrostatic Painting, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.28	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.38	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 23 00-0098 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Walls .....	1.18	
For Electrostatic Painting, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0099 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Walls .....	2.22	
For Electrostatic Painting, Add	0.33	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.38	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.61	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.84	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.25	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 23 00-0100 SF 1 Coat Primer, Sprayed, Paint Interior Aluminum And Aluminum Alloy Walls .....	0.82	
For Electrostatic Painting, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.19	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.26	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0101 SF 1 Coat Paint, Sprayed, Paint Interior Aluminum And Aluminum Alloy Walls.....	0.97	
For Electrostatic Painting, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0102	SF		2 Coats Paint, Sprayed, Paint Interior Aluminum And Aluminum Alloy Walls .....	1.62	
			<i>For Electrostatic Painting, Add</i>	0.27	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.51	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.80	
			<i>For &gt;100 To 250, Add</i>	0.39	
			<i>For &gt;250 To 500, Add</i>	0.17	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.16	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.24	
			<i>For &gt;20,000, Deduct</i>	-0.32	
<b>09 91 23 00-0103</b>			<b>Paint Interior Corrugated Metal Walls <small>(09 91 23 00-0082)</small></b> .....		
09 91 23 00-0104	SF		1 Coat Primer, Sprayed, Paint Interior Corrugated Metal Walls .....	0.91	
			<i>For Electrostatic Painting, Add</i>	0.15	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.44	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 23 00-0105	SF		1 Coat Paint, Sprayed, Paint Interior Corrugated Metal Walls .....	1.22	
			<i>For Electrostatic Painting, Add</i>	0.18	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.33	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.45	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.68	
			<i>For &gt;100 To 250, Add</i>	0.33	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.18	
			<i>For &gt;20,000, Deduct</i>	-0.24	
09 91 23 00-0106	SF		2 Coats Paint, Sprayed, Paint Interior Corrugated Metal Walls .....	2.04	
			<i>For Electrostatic Painting, Add</i>	0.32	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.68	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.05	
			<i>For &gt;100 To 250, Add</i>	0.51	
			<i>For &gt;250 To 500, Add</i>	0.23	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.20	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.31	
			<i>For &gt;20,000, Deduct</i>	-0.41	
<b>09 91 23 00-0107</b>			<b>Paint Interior Stucco Walls <small>(09 91 23 00-0001)</small></b>		



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0108 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Stucco Wall Surfaces.....	0.31	
For Oil Based Paint, Add	0.02	
For Work >15' To 20' Above Floor, Add	0.04	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.07	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.11	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.15	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.21	
For >100 To 250, Add	0.10	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.05	
For >20,000, Deduct	-0.06	
09 91 23 00-0109 SF 1 Coat Primer, Brush Work, Paint Interior Stucco Wall Surfaces.....	1.70	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.38	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.60	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.83	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.16	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.34	
09 91 23 00-0110 SF 1 Coat Paint, Brush Work, Paint Interior Stucco Wall Surfaces .....	1.88	
For Oil Based Paint, Add	0.11	
For Work >15' To 20' Above Floor, Add	0.25	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.41	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.66	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.91	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.27	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.38	
09 91 23 00-0111 SF 2 Coats Paint, Brush Work, Paint Interior Stucco Wall Surfaces .....	3.31	
For Oil Based Paint, Add	0.19	
For Work >15' To 20' Above Floor, Add	0.43	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.72	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	1.14	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.21	
For >100 To 250, Add	1.05	
For >250 To 500, Add	0.45	
For >2,500 To 5,000, Deduct	-0.17	
For >5,000 To 10,000, Deduct	-0.33	
For >10,000 To 20,000, Deduct	-0.50	
For >20,000, Deduct	-0.66	
09 91 23 00-0112 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Stucco Wall Surfaces .....	1.28	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.16	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.27	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.60	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.85	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0113	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Stucco Wall Surfaces.....	1.46	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.18	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.31	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.49	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.68	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.96	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	
09 91 23 00-0114	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Stucco Wall Surfaces.....	2.66	
			For Oil Based Paint, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.33	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.55	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.88	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.22	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.73	
			For >100 To 250, Add	0.82	
			For >250 To 500, Add	0.35	
			For >2,500 To 5,000, Deduct	-0.13	
			For >5,000 To 10,000, Deduct	-0.27	
			For >10,000 To 20,000, Deduct	-0.40	
			For >20,000, Deduct	-0.53	
09 91 23 00-0115	SF		1 Coat Primer, Sprayed, Paint Interior Stucco Wall Surfaces.....	0.87	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.10	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.26	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.35	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 23 00-0116	SF		1 Coat Paint, Sprayed, Paint Interior Stucco Wall Surfaces.....	1.07	
			For Oil Based Paint, Add	0.07	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.43	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 23 00-0117	SF		2 Coats Paint, Sprayed, Paint Interior Stucco Wall Surfaces.....	2.07	
			For Oil Based Paint, Add	0.13	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.39	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.62	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.85	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.24	
			For >100 To 250, Add	0.59	
			For >250 To 500, Add	0.26	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000, Deduct	-0.41	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0118    Paint Interior Wood Walls <small>(09 91 23 00-0001)</small>		
09 91 23 00-0119    Interior Wood Walls <small>(09 91 23 00-0118)</small>		
09 91 23 00-0120    LF    1 Coat Paint, Cut-in Brush Work, Paint Interior Wood Wall Surfaces .....	0.22	
For Oil Based Paint, Add	0.01	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.08	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.10	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.15	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 23 00-0121    SF    1 Coat Paint, Brush Work, Paint Interior Wood Wall Surfaces.....	1.27	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 23 00-0122    SF    2 Coats Paint, Brush Work, Paint Interior Wood Wall Surfaces.....	2.33	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.30	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.50	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.80	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.11	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.56	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.23	
For >10,000 To 20,000, Deduct	-0.35	
For >20,000, Deduct	-0.47	
09 91 23 00-0123    SF    3 Coats Paint, Brush Work, Paint Interior Wood Wall Surfaces.....	3.32	
For Oil Based Paint, Add	0.19	
For Work >15' To 20' Above Floor, Add	0.42	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.71	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	1.13	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.56	
Note: Applied only to work area above 40'.		
For Up To 100, Add	2.20	
For >100 To 250, Add	1.04	
For >250 To 500, Add	0.45	
For >2,500 To 5,000, Deduct	-0.17	
For >5,000 To 10,000, Deduct	-0.33	
For >10,000 To 20,000, Deduct	-0.50	
For >20,000, Deduct	-0.66	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0124	SF	1	Coat Primer, Brush/Roller Work, Paint Interior Wood Walls .....	0.90	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.41	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.58	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 23 00-0125	SF	1	Coat Paint, Brush/Roller Work, Paint Interior Wood Walls.....	1.03	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.13	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.35	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.68	
			<i>For &gt;100 To 250, Add</i>	0.32	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.21	
09 91 23 00-0126	SF	2	Coats Paint, Brush/Roller Work, Paint Interior Wood Walls.....	1.81	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.37	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.60	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.82	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.17	
			<i>For &gt;100 To 250, Add</i>	0.55	
			<i>For &gt;250 To 500, Add</i>	0.24	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.09	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.18	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.27	
			<i>For &gt;20,000, Deduct</i>	-0.36	
09 91 23 00-0127	SF	1	Coat Primer, Sprayed, Paint Interior Wood Walls .....	0.61	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.06	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.34	
			<i>For &gt;100 To 250, Add</i>	0.17	
			<i>For &gt;250 To 500, Add</i>	0.07	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.03	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.06	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.09	
			<i>For &gt;20,000, Deduct</i>	-0.12	
09 91 23 00-0128	SF	1	Coat Paint, Sprayed, Paint Interior Wood Walls .....	0.79	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.45	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.16	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0129 SF 2 Coats Paint, Sprayed, Paint Interior Wood Walls.....	1.43	
For Oil Based Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.25	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.39	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.54	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.80	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.29	
 09 91 23 00-0130 Paint Interior Ceilings (09 91 23)		
09 91 23 00-0131 Paint Interior Acoustical Ceilings (09 91 23 00-0130)		
Note: Includes grid.		
09 91 23 00-0132 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Acoustical Ceiling .....	0.33	
For Oil Based Paint, Add	0.02	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.08	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.11	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.17	
For >100 To 250, Add	0.08	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.05	
For >20,000, Deduct	-0.07	
09 91 23 00-0133 SF 1 Coat Primer, Brush Work, Paint Interior Acoustical Ceiling .....	1.12	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 23 00-0134 SF 1 Coat Paint, Brush Work, Paint Interior Acoustical Ceiling .....	1.23	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0135	SF		2 Coats Paint, Brush Work, Paint Interior Acoustical Ceiling .....	2.19	
			For Oil Based Paint, Add	0.12	
			For Work >15' To 20' Above Floor, Add	0.29	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.48	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.77	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	1.06	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.49	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	
09 91 23 00-0136	SF		1 Coat Primer, Brush/Roller Work, Paint Interior Acoustical Ceiling .....	0.97	
			For Oil Based Paint, Add	0.06	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.20	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.32	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 91 23 00-0137	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Acoustical Ceiling.....	0.95	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.21	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.33	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.45	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 23 00-0138	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Acoustical Ceiling.....	1.77	
			For Oil Based Paint, Add	0.10	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.38	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.60	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.83	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.17	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.35	
09 91 23 00-0139	SF		1 Coat Primer, Sprayed, Paint Interior Acoustical Ceiling.....	0.80	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0140 SF 1 Coat Paint, Sprayed, Paint Interior Acoustical Ceiling .....	0.78	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0141 SF 2 Coats Paint, Sprayed, Paint Interior Acoustical Ceiling .....	1.25	
For Oil Based Paint, Add	0.08	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
<b>09 91 23 00-0142 Paint Interior Concrete Ceilings (09 91 23 00-0130)</b>		
09 91 23 00-0143 LF 1 Coat Paint, Cut-in Brush Work, Paint Interior Concrete Ceiling .....	0.20	
For Work >15' To 20' Above Floor, Add	0.03	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.05	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.07	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.10	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.14	
For >100 To 250, Add	0.07	
For >250 To 500, Add	0.03	
For >2,500 To 5,000, Deduct	-0.01	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000 To 20,000, Deduct	-0.03	
For >20,000, Deduct	-0.04	
09 91 23 00-0144 SF 1 Coat Filler, Brush Work, Paint Interior Concrete Ceiling .....	1.12	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 23 00-0145	SF 1 Coat Paint, Brush Work, Paint Interior Concrete Ceiling.....	1.23	
	For Oil Based Paint, Add	0.07	
	For Epoxy Paint, Add	0.10	
	For Work >15' To 20' Above Floor, Add	0.17	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.28	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.44	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.61	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.84	
	For >100 To 250, Add	0.40	
	For >250 To 500, Add	0.17	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.12	
	For >10,000 To 20,000, Deduct	-0.18	
	For >20,000, Deduct	-0.25	
09 91 23 00-0146	SF 2 Coats Paint, Brush Work, Paint Interior Concrete Ceiling.....	2.18	
	For Oil Based Paint, Add	0.12	
	For Epoxy Paint, Add	0.19	
	For Work >15' To 20' Above Floor, Add	0.29	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.48	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.77	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	1.06	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	1.48	
	For >100 To 250, Add	0.70	
	For >250 To 500, Add	0.30	
	For >2,500 To 5,000, Deduct	-0.11	
	For >5,000 To 10,000, Deduct	-0.22	
	For >10,000 To 20,000, Deduct	-0.33	
	For >20,000, Deduct	-0.44	
09 91 23 00-0147	SF 1 Coat Filler, Brush/Roller Work, Paint Interior Concrete Ceiling.....	0.85	
	For Oil Based Paint, Add	0.05	
	For Epoxy Paint, Add	0.09	
	For Work >15' To 20' Above Floor, Add	0.10	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.17	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.28	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.38	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.54	
	For >100 To 250, Add	0.26	
	For >250 To 500, Add	0.11	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.13	
	For >20,000, Deduct	-0.17	
09 91 23 00-0148	SF 1 Coat Paint, Brush/Roller Work, Paint Interior Concrete Ceiling.....	0.96	
	For Oil Based Paint, Add	0.05	
	For Epoxy Paint, Add	0.09	
	For Work >15' To 20' Above Floor, Add	0.12	
	Note: Applied only to work area above 15' to 20'.		
	For Work >20' To 30' Above Floor, Add	0.21	
	Note: Applied only to work area above 20' to 30'.		
	For Work >30' To 40' Above Floor, Add	0.33	
	Note: Applied only to work area above 30' to 40'.		
	For Work >40' Above Floor, Add	0.46	
	Note: Applied only to work area above 40'.		
	For Up To 100, Add	0.64	
	For >100 To 250, Add	0.30	
	For >250 To 500, Add	0.13	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.14	
	For >20,000, Deduct	-0.19	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0149 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Concrete Ceiling.....	1.78	
For Oil Based Paint, Add	0.10	
For Epoxy Paint, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.23	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.38	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.61	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.84	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.18	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.27	
For >20,000, Deduct	-0.36	
09 91 23 00-0150 SF 1 Coat Filler, Sprayed, Paint Interior Concrete Ceiling .....	0.76	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.10	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.14	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.23	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.31	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.46	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 23 00-0151 SF 1 Coat Paint, Sprayed, Paint Interior Concrete Ceiling .....	0.78	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.09	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0152 SF 2 Coats Paint, Sprayed, Paint Interior Concrete Ceiling .....	1.24	
For Oil Based Paint, Add	0.08	
For Epoxy Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
09 91 23 00-0153 SF 1 Coat Bonding Agent, Brush Work, Paint Interior Concrete Ceiling .....	1.15	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0154	SF		1 Coat Bonding Agent, Brush/Roller, Paint Interior Concrete Ceiling .....0.88		
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.55	
			<i>For &gt;100 To 250, Add</i>	0.26	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.13	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 23 00-0155	SF		1 Coat Bonding Agent, Sprayed, Paint Interior Concrete Ceiling .....0.80		
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.09	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.46	
			<i>For &gt;100 To 250, Add</i>	0.22	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.16	
09 91 23 00-0156			<b>Paint Interior Drywall/Plaster Ceilings (09 91 23 00-0130) .....0.20</b>		
09 91 23 00-0157	LF		1 Coat Paint, Cut-in Brush Work, Paint Interior Drywall/Plaster Ceiling .....0.20		
			<i>For Epoxy Paint, Add</i>	0.02	
			<i>For Oil Based Paint, Add</i>	0.01	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.03	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.07	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.10	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.14	
			<i>For &gt;100 To 250, Add</i>	0.07	
			<i>For &gt;250 To 500, Add</i>	0.03	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.01	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.03	
			<i>For &gt;20,000, Deduct</i>	-0.04	
09 91 23 00-0158	SF		1 Coat Primer, Brush Work, Pain Interior Drywall/Plaster Ceiling .....1.12		
			<i>For Epoxy Paint, Add</i>	0.10	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Orange Peel Finish, Add</i>	0.16	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.74	
			<i>For &gt;100 To 250, Add</i>	0.35	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.22	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0159 SF 1 Coat Paint, Brush Work, Paint Interior Drywall/Plaster Ceiling .....	1.23	
For Epoxy Paint, Add	0.10	
For Oil Based Paint, Add	0.07	
For Orange Peel Finish, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.25	
09 91 23 00-0160 SF 2 Coats Paint, Brush Work, Paint Interior Drywall/Plaster Ceiling.....	2.19	
For Epoxy Paint, Add	0.19	
For Oil Based Paint, Add	0.12	
For Orange Peel Finish, Add	0.31	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.48	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.77	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.06	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.49	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 23 00-0161 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Drywall/Plaster Ceiling.....	0.97	
For Epoxy Paint, Add	0.10	
For Oil Based Paint, Add	0.06	
For Orange Peel Finish, Add	0.14	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	
09 91 23 00-0162 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Drywall/Plaster Ceiling.....	0.95	
For Epoxy Paint, Add	0.09	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.63	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0163	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Drywall/Plaster Ceiling .....	1.77	
			For Epoxy Paint, Add	0.17	
			For Oil Based Paint, Add	0.10	
			For Orange Peel Finish, Add	0.25	
			For Work >15' To 20' Above Floor, Add	0.23	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.38	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.60	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.83	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.17	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.35	
09 91 23 00-0164	SF		1 Coat Primer, Sprayed, Paint Interior Drywall/Plaster Ceiling .....	0.80	
			For Epoxy Paint, Add	0.10	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.15	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.24	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 23 00-0165	SF		1 Coat Paint, Sprayed, Paint Interior Drywall/Plaster Ceiling .....	0.78	
			For Epoxy Paint, Add	0.09	
			For Oil Based Paint, Add	0.05	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.25	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 23 00-0166	SF		2 Coats Paint, Sprayed, Paint Interior Drywall/Plaster Ceiling .....	1.25	
			For Epoxy Paint, Add	0.16	
			For Oil Based Paint, Add	0.08	
			For Work >15' To 20' Above Floor, Add	0.14	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.23	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.37	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.51	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.75	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 23 00-0167			Paint Interior Metal Ceilings (09 91 23 00-0130)		
09 91 23 00-0168			Galvanized Surfaces, Galvanized Primer (09 91 23 00-0167)		
			Note: Linseed oil or acrylic latex paint.		



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0169 SF 1 Coat Primer, Brush Work, Paint Interior Galvanized Ceiling .....	1.40	
For Electrostatic Painting, Add	0.19	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.87	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 23 00-0170 SF 1 Coat Paint, Brush Work, Paint Interior Galvanized Ceiling .....	1.54	
For Electrostatic Painting, Add	0.20	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.50	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.68	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.98	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 23 00-0171 SF 2 Coats Paint, Brush Work, Paint Interior Galvanized Ceiling .....	2.81	
For Electrostatic Painting, Add	0.37	
For Work >15' To 20' Above Floor, Add	0.33	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.55	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.88	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.22	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.75	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.42	
For >20,000, Deduct	-0.56	
09 91 23 00-0172 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Galvanized Ceiling .....	1.08	
For Electrostatic Painting, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 23 00-0173 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Galvanized Ceiling .....	1.21	
For Electrostatic Painting, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0174	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Galvanized Ceiling .....	2.24	
			For Electrostatic Painting, Add	0.30	
			For Work >15' To 20' Above Floor, Add	0.26	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.44	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.70	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.96	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.38	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.29	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.34	
			For >20,000, Deduct	-0.45	
09 91 23 00-0175	SF		1 Coat Primer, Sprayed, Paint Interior Galvanized Ceiling .....	0.97	
			For Electrostatic Painting, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.25	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.52	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 91 23 00-0176	SF		1 Coat Paint, Sprayed, Paint Interior Galvanized Ceiling .....	1.12	
			For Electrostatic Painting, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.42	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 23 00-0177	SF		2 Coats Paint, Sprayed, Paint Interior Galvanized Ceiling .....	1.77	
			For Electrostatic Painting, Add	0.28	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.43	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.59	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.35	

09 91 23 00-0178 Aluminum And Aluminum Alloy Surface Pretreatment Primer<sup>†</sup> (09 91 23 00-0167)  
 Note: Alkyd enamel paint.





		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0179 SF 1 Coat Primer, Brush Work, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	1.40	
For Electrostatic Painting, Add	0.19	
For Work >15' To 20' Above Floor, Add	0.17	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.28	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.44	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.61	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.87	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 23 00-0180 SF 1 Coat Paint, Brush Work, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	1.54	
For Electrostatic Painting, Add	0.20	
For Work >15' To 20' Above Floor, Add	0.19	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.31	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.50	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.68	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.98	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 23 00-0181 SF 2 Coats Paint, Brush Work, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	2.81	
For Electrostatic Painting, Add	0.37	
For Work >15' To 20' Above Floor, Add	0.33	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.55	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.88	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.22	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.75	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.42	
For >20,000, Deduct	-0.56	
09 91 23 00-0182 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	1.18	
For Electrostatic Painting, Add	0.17	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0183 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Ceiling.....	1.31	
For Electrostatic Painting, Add	0.18	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.77	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0184	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Aluminum And Aluminum Alloy Ceiling .....	2.48	
			For Electrostatic Painting, Add	0.35	
			For Work >15' To 20' Above Floor, Add	0.27	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.45	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.71	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.98	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	1.44	
			For >100 To 250, Add	0.69	
			For >250 To 500, Add	0.30	
			For >2,500 To 5,000, Deduct	-0.12	
			For >5,000 To 10,000, Deduct	-0.25	
			For >10,000 To 20,000, Deduct	-0.37	
			For >20,000, Deduct	-0.50	
09 91 23 00-0185	SF		1 Coat Primer, Sprayed, Paint Interior Aluminum And Aluminum Alloy Ceiling .....	0.97	
			For Electrostatic Painting, Add	0.15	
			For Work >15' To 20' Above Floor, Add	0.09	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.16	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.25	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.34	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.52	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 91 23 00-0186	SF		1 Coat Paint, Sprayed, Paint Interior Aluminum And Aluminum Alloy Ceiling .....	1.12	
			For Electrostatic Painting, Add	0.16	
			For Work >15' To 20' Above Floor, Add	0.12	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.19	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.31	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.42	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.30	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 23 00-0187	SF		2 Coats Paint, Sprayed, Paint Interior Aluminum And Aluminum Alloy Ceiling .....	1.77	
			For Electrostatic Painting, Add	0.28	
			For Work >15' To 20' Above Floor, Add	0.16	
			Note: Applied only to work area above 15' to 20'.		
			For Work >20' To 30' Above Floor, Add	0.27	
			Note: Applied only to work area above 20' to 30'.		
			For Work >30' To 40' Above Floor, Add	0.43	
			Note: Applied only to work area above 30' to 40'.		
			For Work >40' Above Floor, Add	0.59	
			Note: Applied only to work area above 40'.		
			For Up To 100, Add	0.91	
			For >100 To 250, Add	0.44	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.18	
			For >10,000 To 20,000, Deduct	-0.27	
			For >20,000, Deduct	-0.35	

09 91 23 00-0188 Paint Interior Ceiling Tile Grid (09 91 23 00-0167)  
 Note: Grid only.



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0189 LF 1 Coat Paint, Brush/Roller Work, Paint Interior Ceiling Tile Grid .....	0.30	
For Electrostatic Painting, Add	0.04	
For Work >15' To 20' Above Floor, Add	0.04	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.07	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.10	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.14	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.20	
For >100 To 250, Add	0.10	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.05	
For >20,000, Deduct	-0.06	
09 91 23 00-0190 LF 2 Coats Paint, Brush/Roller Work, Paint Interior Ceiling Tile Grid.....	0.61	
For Electrostatic Painting, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.08	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.13	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.21	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.29	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
<b>09 91 23 00-0191 Paint Interior Corrugated Metal Ceilings (09 91 23 00-0167)</b>		
09 91 23 00-0192 SF 1 Coat Primer, Sprayed, Paint Interior Corrugated Metal Ceiling.....	1.28	
For Electrostatic Painting, Add	0.20	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.68	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.26	
09 91 23 00-0193 SF 1 Coat Paint, Sprayed, Paint Interior Corrugated Metal Ceiling.....	1.49	
For Electrostatic Painting, Add	0.22	
For Work >15' To 20' Above Floor, Add	0.15	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.26	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.41	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.57	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.84	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0194	SF		2 Coats Paint, Sprayed, Paint Interior Corrugated Metal Ceiling .....	2.38	
			<i>For Electrostatic Painting, Add</i>	0.38	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.58	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.80	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.23	
			<i>For &gt;100 To 250, Add</i>	0.60	
			<i>For &gt;250 To 500, Add</i>	0.26	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.12	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.24	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.36	
			<i>For &gt;20,000, Deduct</i>	-0.48	
09 91 23 00-0195			Paint Interior Wood Ceilings <small>(09 91 23 00-0130)</small>		
09 91 23 00-0196			Paint Interior Smooth Wood Ceilings <small>(09 91 23 00-0195)</small>		
09 91 23 00-0197	LF		1 Coat Paint, Cut-in Brush Work, Paint Interior Wood Smooth Ceiling .....	0.23	
			<i>For Oil Based Paint, Add</i>	0.01	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.03	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.05	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.15	
			<i>For &gt;100 To 250, Add</i>	0.07	
			<i>For &gt;250 To 500, Add</i>	0.03	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.01	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.03	
			<i>For &gt;20,000, Deduct</i>	-0.05	
09 91 23 00-0198	SF		1 Coat Primer, Brush Work, Paint Interior Wood Smooth Ceiling .....	1.37	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.46	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.63	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.89	
			<i>For &gt;100 To 250, Add</i>	0.42	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.21	
			<i>For &gt;20,000, Deduct</i>	-0.27	
09 91 23 00-0199	SF		1 Coat Paint, Brush Work, Paint Interior Wood Smooth Ceiling.....	1.44	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.69	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.97	
			<i>For &gt;100 To 250, Add</i>	0.46	
			<i>For &gt;250 To 500, Add</i>	0.20	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.22	
			<i>For &gt;20,000, Deduct</i>	-0.29	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0200 SF 2 Coats Paint, Brush Work, Paint Interior Wood Smooth Ceiling.....	2.60	
For Oil Based Paint, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.33	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.55	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.88	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.22	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.72	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	
For >2,500 To 5,000, Deduct	-0.13	
For >5,000 To 10,000, Deduct	-0.26	
For >10,000 To 20,000, Deduct	-0.39	
For >20,000, Deduct	-0.52	
09 91 23 00-0201 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Smooth Wood Ceiling.....	1.09	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.66	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 23 00-0202 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Smooth Wood Ceiling .....	1.19	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0203 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Smooth Wood Ceiling .....	2.23	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.27	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.45	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.71	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.98	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.40	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.45	
09 91 23 00-0204 SF 1 Coat Primer, Sprayed, Paint Interior Smooth Wood Ceiling .....	0.81	
For Oil Based Paint, Add	0.05	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.34	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.49	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0205	SF		1 Coat Paint, Sprayed, Paint Interior Smooth Wood Ceiling.....	0.97	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.61	
			<i>For &gt;100 To 250, Add</i>	0.29	
			<i>For &gt;250 To 500, Add</i>	0.13	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.15	
			<i>For &gt;20,000, Deduct</i>	-0.19	
09 91 23 00-0206	SF		2 Coats Paint, Sprayed, Paint Interior Smooth Wood Ceiling.....	1.46	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.16	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.27	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.59	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.86	
			<i>For &gt;100 To 250, Add</i>	0.41	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.07	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.15	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.22	
			<i>For &gt;20,000, Deduct</i>	-0.29	
<b>09 91 23 00-0207</b>			<b>Paint Interior Wood Beams <small>(09 91 23 00-0130)</small></b>		
09 91 23 00-0208	SF		1 Coat Primer, Brush Work, Paint Interior Wood Beams.....	1.52	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.52	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.71	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.00	
			<i>For &gt;100 To 250, Add</i>	0.47	
			<i>For &gt;250 To 500, Add</i>	0.21	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.15	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.23	
			<i>For &gt;20,000, Deduct</i>	-0.30	
09 91 23 00-0209	SF		1 Coat Paint, Brush Work, Paint Interior Wood Beams.....	1.56	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.21	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.34	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.55	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.75	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.06	
			<i>For &gt;100 To 250, Add</i>	0.50	
			<i>For &gt;250 To 500, Add</i>	0.22	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.16	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.23	
			<i>For &gt;20,000, Deduct</i>	-0.31	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0210 SF 2 Coats Paint, Brush Work, Paint Interior Wood Beams.....	2.84	
For Oil Based Paint, Add	0.16	
For Work >15' To 20' Above Floor, Add	0.37	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.61	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.98	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.35	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.90	
For >100 To 250, Add	0.90	
For >250 To 500, Add	0.39	
For >2,500 To 5,000, Deduct	-0.14	
For >5,000 To 10,000, Deduct	-0.28	
For >10,000 To 20,000, Deduct	-0.43	
For >20,000, Deduct	-0.57	
09 91 23 00-0211 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Wood Beams.....	1.20	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.74	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0212 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Wood Beams .....	1.19	
For Oil Based Paint, Add	0.07	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0213 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Wood Beams .....	2.23	
For Oil Based Paint, Add	0.13	
For Work >15' To 20' Above Floor, Add	0.27	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.45	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.71	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.98	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.40	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.29	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.45	
09 91 23 00-0214 SF 1 Coat Primer, Sprayed, Paint Interior Wood Beams.....	0.97	
For Oil Based Paint, Add	0.06	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.31	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.61	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.19	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0215	SF	1	Coat Paint, Sprayed, Paint Interior Wood Beams .....	0.96	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.19	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.31	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.42	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.61	
			<i>For &gt;100 To 250, Add</i>	0.29	
			<i>For &gt;250 To 500, Add</i>	0.13	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.19	
09 91 23 00-0216	SF	2	Coats Paint, Sprayed, Paint Interior Wood Beams .....	1.60	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.48	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.67	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.97	
			<i>For &gt;100 To 250, Add</i>	0.46	
			<i>For &gt;250 To 500, Add</i>	0.20	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.08	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.16	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.24	
			<i>For &gt;20,000, Deduct</i>	-0.32	
09 91 23 00-0217			Paint Interior Floors And Decks <small>(09 91 23)</small>		
09 91 23 00-0218			Paint Interior Concrete Floors And Decks <small>(09 91 23 00-0217)</small>		
09 91 23 00-0219	LF	1	Coat Paint, Cut-in Brush Work, Paint Interior Concrete Floors And Decks .....	0.16	
			<i>For Up To 100, Add</i>	0.11	
			<i>For &gt;100 To 250, Add</i>	0.05	
			<i>For &gt;250 To 500, Add</i>	0.02	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.01	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.02	
			<i>For &gt;20,000, Deduct</i>	-0.03	
09 91 23 00-0220	SF	1	Coat Primer, Brush Work, Paint Interior Concrete Floors And Decks .....	0.85	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.09	
			<i>For Up To 100, Add</i>	0.54	
			<i>For &gt;100 To 250, Add</i>	0.26	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.13	
			<i>For &gt;20,000, Deduct</i>	-0.17	
09 91 23 00-0221	SF	1	Coat Paint, Brush Work, Paint Interior Concrete Floors And Decks .....	0.95	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.09	
			<i>For Up To 100, Add</i>	0.63	
			<i>For &gt;100 To 250, Add</i>	0.30	
			<i>For &gt;250 To 500, Add</i>	0.13	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.19	
09 91 23 00-0222	SF	2	Coats Paint, Brush Work, Paint Interior Concrete Floors And Decks .....	1.87	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Epoxy Paint, Add</i>	0.17	
			<i>For Up To 100, Add</i>	1.25	
			<i>For &gt;100 To 250, Add</i>	0.59	
			<i>For &gt;250 To 500, Add</i>	0.25	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.09	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.19	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.28	
			<i>For &gt;20,000, Deduct</i>	-0.37	
09 91 23 00-0223	SF	1	Coat Primer, Brush/Roller Work, Paint Interior Concrete Floors And Decks .....	0.83	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.09	
			<i>For Up To 100, Add</i>	0.53	
			<i>For &gt;100 To 250, Add</i>	0.25	
			<i>For &gt;250 To 500, Add</i>	0.11	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.17	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0224 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Concrete Floors And Decks .....	0.82	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.54	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0225 SF 2 Coats Paint, Brush/Roller Work, Paint Interior Concrete Floors And Decks .....	1.33	
For Oil Based Paint, Add	0.08	
For Epoxy Paint, Add	0.14	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 23 00-0226 SF 1 Coat Primer, Sprayed, Paint Interior Concrete Floors And Decks .....	0.61	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.09	
For Up To 100, Add	0.34	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 23 00-0227 SF 1 Coat Paint, Sprayed, Paint Interior Concrete Floors And Decks .....	0.63	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.08	
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
09 91 23 00-0228 SF 2 Coats Paint, Sprayed, Paint Interior Concrete Floors And Decks .....	1.10	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.15	
For Up To 100, Add	0.63	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.22	
09 91 23 00-0229 SF 1 Coat Bonding Agent, Brush Work, Paint Interior Concrete Floors And Decks .....	0.88	
For Up To 100, Add	0.55	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.18	
09 91 23 00-0230 SF 1 Coat Bonding Agent, Brush/Roller Work, Paint Interior Concrete Floors And Decks .....	0.86	
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 23 00-0231 SF 1 Coat Bonding Agent, Sprayed, Paint Interior Concrete Floors And Decks .....	0.65	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 23 00-0232 SF 1 Coat Non-Slip Paint, Brush Work, Paint Interior Concrete Floors And Decks .....	2.41	
For Up To 100, Add	0.86	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.48	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0233	SF		1 Coat Non-Slip Epoxy Paint, Brush Work, Paint Interior Concrete Floors And Decks (Rust-Oleum® AS91864251).....	6.74	
			<i>For Up To 100, Add</i>	1.51	
			<i>For &gt;100 To 250, Add</i>	0.88	
			<i>For &gt;250 To 500, Add</i>	0.42	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.34	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.67	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-1.01	
			<i>For &gt;20,000, Deduct</i>	-1.35	
<b>09 91 23 00-0234</b>			<b>Paint Interior Wood Floors And Decks (09 91 23 00-0217)</b> .....	0.19	
09 91 23 00-0235	LF		1 Coat Paint, Cut-in Brush Work, Paint Interior Wood Floors And Decks .....	0.19	
			<i>For Up To 100, Add</i>	0.12	
			<i>For &gt;100 To 250, Add</i>	0.06	
			<i>For &gt;250 To 500, Add</i>	0.03	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.01	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.02	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.03	
			<i>For &gt;20,000, Deduct</i>	-0.04	
09 91 23 00-0236	SF		1 Coat Primer, Brush Work, Paint Interior Wood Floors And Decks .....	1.06	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.66	
			<i>For &gt;100 To 250, Add</i>	0.31	
			<i>For &gt;250 To 500, Add</i>	0.14	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.16	
			<i>For &gt;20,000, Deduct</i>	-0.21	
09 91 23 00-0237	SF		1 Coat Paint, Brush Work, Paint Interior Wood Floors And Decks.....	1.15	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Up To 100, Add</i>	0.75	
			<i>For &gt;100 To 250, Add</i>	0.36	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 91 23 00-0238	SF		2 Coats Paint, Brush Work, Paint Interior Wood Floors And Decks.....	2.17	
			<i>For Oil Based Paint, Add</i>	0.13	
			<i>For Up To 100, Add</i>	1.39	
			<i>For &gt;100 To 250, Add</i>	0.66	
			<i>For &gt;250 To 500, Add</i>	0.29	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.11	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.22	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.33	
			<i>For &gt;20,000, Deduct</i>	-0.43	
09 91 23 00-0239	SF		1 Coat Primer, Brush/Roller Work, Paint Interior Wood Floors And Decks .....	0.84	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.47	
			<i>For &gt;100 To 250, Add</i>	0.23	
			<i>For &gt;250 To 500, Add</i>	0.10	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.13	
			<i>For &gt;20,000, Deduct</i>	-0.17	
09 91 23 00-0240	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Wood Floors And Decks .....	0.92	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.55	
			<i>For &gt;100 To 250, Add</i>	0.26	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.18	
09 91 23 00-0241	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Wood Floors And Decks.....	1.82	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Up To 100, Add</i>	1.10	
			<i>For &gt;100 To 250, Add</i>	0.52	
			<i>For &gt;250 To 500, Add</i>	0.23	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.09	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.18	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.27	
			<i>For &gt;20,000, Deduct</i>	-0.36	
09 91 23 00-0242	SF		1 Coat Primer, Sprayed, Paint Interior Wood Floors And Decks.....	0.66	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Up To 100, Add</i>	0.38	
			<i>For &gt;100 To 250, Add</i>	0.18	
			<i>For &gt;250 To 500, Add</i>	0.08	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.03	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.07	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.10	
			<i>For &gt;20,000, Deduct</i>	-0.13	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0243 SF 1 Coat Paint, Sprayed, Paint Interior Wood Floors And Decks.....	0.81	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0244 SF 2 Coats Paint, Sprayed, Paint Interior Wood Floors And Decks.....	1.18	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0245 SF 1 Coat Non-Slip Paint, Brush Work, Paint Interior Wood Floors And Decks.....	2.41	
For Up To 100, Add	0.86	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.12	
For >5,000 To 10,000, Deduct	-0.24	
For >10,000 To 20,000, Deduct	-0.36	
For >20,000, Deduct	-0.48	
09 91 23 00-0246 SF 1 Coat Non-Slip Epoxy Paint, Brush Work, Paint Interior Wood Floors And Decks.....	6.74	
For Up To 100, Add	1.51	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.42	
For >2,500 To 5,000, Deduct	-0.34	
For >5,000 To 10,000, Deduct	-0.67	
For >10,000 To 20,000, Deduct	-1.01	
For >20,000, Deduct	-1.35	
<b>09 91 23 00-0247 Paint Interior Doors And Windows (09 91 23)</b>		
<b>09 91 23 00-0248 Paint Interior Door Frames (09 91 23 00-0247)</b>		
09 91 23 00-0249 LF 1 Coat Primer, Brush/Roller Work, Paint Interior Wood Door Frame And Trim.....	1.31	
For Oil Based Paint, Add	0.07	
For Painting One Face Of Frame Only, Deduct	-0.34	
09 91 23 00-0250 LF 1 Coat Paint, Brush/Roller Work, Paint Interior Wood Door Frame And Trim.....	1.70	
For Oil Based Paint, Add	0.09	
For Painting One Face Of Frame Only, Deduct	-0.44	
09 91 23 00-0251 LF 2 Coats Paint, Brush/Roller Work, Paint Interior Wood Door Frame And Trime.....	2.86	
For Oil Based Paint, Add	0.15	
For Painting One Face Of Frame Only, Deduct	-0.74	
09 91 23 00-0252 LF 1 Coat Primer, Brush/Roller Work, Paint Interior Metal Door Frame And Trim.....	1.34	
For Oil Based Paint, Add	0.07	
For Painting One Face Of Frame Only, Deduct	-0.36	
09 91 23 00-0253 LF 1 Coat Paint, Brush/Roller Work, Paint Interior Metal Door Frame And Trim.....	1.73	
For Oil Based Paint, Add	0.09	
For Painting One Face Of Frame Only, Deduct	-0.45	
09 91 23 00-0254 LF 2 Coats Paint, Brush/Roller Work, Paint Interior Metal Door Frame And Trim.....	2.90	
For Oil Based Paint, Add	0.16	
For Painting One Face Of Frame Only, Deduct	-0.76	
<b>09 91 23 00-0255 Paint Interior Metal Doors (09 91 23 00-0247)</b>		
09 91 23 00-0256 EA 1 Coat Primer, Brush/Roller Work, One Face, Paint Interior Metal Door.....	60.52	
For Electrostatic Painting, Add	9.14	
For Half Louvered Door, Add	5.99	
For Full Louvered Door, Add	9.99	
For Oil Based Paint, Add	4.06	
For >5 To 10, Deduct	-3.03	
For >10 To 25, Deduct	-6.05	
For >25, Deduct	-9.08	
09 91 23 00-0257 EA 1 Coat Paint, Brush/Roller Work, One Face, Paint Interior Metal Door.....	60.52	
For Electrostatic Painting, Add	9.14	
For Half Louvered Door, Add	5.99	
For Full Louvered Door, Add	9.99	
For Oil Based Paint, Add	4.06	
For >5 To 10, Deduct	-3.03	
For >10 To 25, Deduct	-6.05	
For >25, Deduct	-9.08	
09 91 23 00-0258 EA 2 Coats Paint, Brush/Roller Work, One Face, Paint Interior Metal Door.....	108.37	
For Electrostatic Painting, Add	16.97	
For Half Louvered Door, Add	10.12	
For Full Louvered Door, Add	16.87	
For Oil Based Paint, Add	7.46	
For >5 To 10, Deduct	-5.42	
For >10 To 25, Deduct	-10.84	
For >25, Deduct	-16.26	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0259 EA 1 Coat Primer, Brush/Roller Work, Both Faces, Paint Interior Metal Door.....	108.59	
For Electrostatic Painting, Add	16.41	
For Half Louvered Door, Add	10.74	
For Full Louvered Door, Add	17.90	
For Oil Based Paint, Add	7.28	
For >5 To 10, Deduct	-5.43	
For >10 To 25, Deduct	-10.86	
For >25, Deduct	-16.29	
09 91 23 00-0260 EA 1 Coat Paint, Brush/Roller Work, Both Faces, Paint Interior Metal Door.....	108.60	
For Electrostatic Painting, Add	16.41	
For Half Louvered Door, Add	10.74	
For Full Louvered Door, Add	17.91	
For Oil Based Paint, Add	7.28	
For >5 To 10, Deduct	-5.43	
For >10 To 25, Deduct	-10.86	
For >25, Deduct	-16.29	
09 91 23 00-0261 EA 2 Coats Paint, Brush/Roller Work, Both Faces, Paint Interior Metal Door.....	195.14	
For Electrostatic Painting, Add	30.61	
For Half Louvered Door, Add	18.18	
For Full Louvered Door, Add	30.29	
For Oil Based Paint, Add	13.46	
For >5 To 10, Deduct	-9.76	
For >10 To 25, Deduct	-19.51	
For >25, Deduct	-29.27	
09 91 23 00-0262 EA 1 Coat Primer, Sprayed, One Face, Paint Interior Metal Door.....	49.48	
For Electrostatic Painting, Add	8.34	
For Half Louvered Door, Add	4.03	
For Full Louvered Door, Add	6.71	
For Oil Based Paint, Add	3.61	
For >5 To 10, Deduct	-2.47	
For >10 To 25, Deduct	-4.95	
For >25, Deduct	-7.42	
09 91 23 00-0263 EA 1 Coat Paint, Sprayed, One Face, Paint Interior Metal Door.....	49.47	
For Electrostatic Painting, Add	8.34	
For Half Louvered Door, Add	4.02	
For Full Louvered Door, Add	6.71	
For Oil Based Paint, Add	3.61	
For >5 To 10, Deduct	-2.47	
For >10 To 25, Deduct	-4.95	
For >25, Deduct	-7.42	
09 91 23 00-0264 EA 2 Coats Paint, Sprayed, One Face, Paint Interior Metal Door.....	90.30	
For Electrostatic Painting, Add	15.78	
For Half Louvered Door, Add	6.80	
For Full Louvered Door, Add	11.33	
For Oil Based Paint, Add	6.76	
For >5 To 10, Deduct	-4.52	
For >10 To 25, Deduct	-9.03	
For >25, Deduct	-13.55	
09 91 23 00-0265 EA 1 Coat Primer, Sprayed, Both Faces, Paint Interior Metal Door.....	88.79	
For Electrostatic Painting, Add	14.98	
For Half Louvered Door, Add	7.22	
For Full Louvered Door, Add	12.03	
For Oil Based Paint, Add	6.47	
For >5 To 10, Deduct	-4.44	
For >10 To 25, Deduct	-8.88	
For >25, Deduct	-13.32	
09 91 23 00-0266 EA 1 Coat Paint, Sprayed, Both Faces, Paint Interior Metal Door.....	88.79	
For Electrostatic Painting, Add	14.98	
For Half Louvered Door, Add	7.22	
For Full Louvered Door, Add	12.03	
For Oil Based Paint, Add	6.47	
For >5 To 10, Deduct	-4.44	
For >10 To 25, Deduct	-8.88	
For >25, Deduct	-13.32	
09 91 23 00-0267 EA 2 Coats Paint, Sprayed, Both Faces, Paint Interior Metal Door.....	162.79	
For Electrostatic Painting, Add	28.48	
For Half Louvered Door, Add	12.21	
For Full Louvered Door, Add	20.36	
For Oil Based Paint, Add	12.21	
For >5 To 10, Deduct	-8.14	
For >10 To 25, Deduct	-16.28	
For >25, Deduct	-24.42	
<b>09 91 23 00-0268 Paint Interior Wood Doors (09 91 23 00-0247)</b>		
09 91 23 00-0269 EA 1 Coat Primer, Brush/Roller Work, One Face, Paint Interior Wood Door.....	55.25	
For Oil Based Paint, Add	3.53	
For Half Louvered Door, Add	5.99	
For Full Louvered Door, Add	9.99	
For >5 To 10, Deduct	-2.76	
For >10 To 25, Deduct	-5.53	
For >25, Deduct	-8.29	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0270 EA 1 Coat Paint, Brush/Roller Work, One Face, Paint Interior Wood Door .....	55.25	
For Oil Based Paint, Add	3.53	
For Half Louvered Door, Add	5.99	
For Full Louvered Door, Add	9.99	
For >5 To 10, Deduct	-2.76	
For >10 To 25, Deduct	-5.53	
For >25, Deduct	-8.29	
09 91 23 00-0271 EA 2 Coats Paint, Brush/Roller Work, One Face, Paint Interior Wood Door .....	97.89	
For Oil Based Paint, Add	6.42	
For Half Louvered Door, Add	10.12	
For Full Louvered Door, Add	16.87	
For >5 To 10, Deduct	-4.89	
For >10 To 25, Deduct	-9.79	
For >25, Deduct	-14.68	
09 91 23 00-0272 EA 1 Coat Primer, Brush/Roller Work, Both Faces, Paint Interior Wood Door .....	99.13	
For Oil Based Paint, Add	6.33	
For Half Louvered Door, Add	10.74	
For Full Louvered Door, Add	17.91	
For >5 To 10, Deduct	-4.96	
For >10 To 25, Deduct	-9.91	
For >25, Deduct	-14.87	
09 91 23 00-0273 EA 1 Coat Paint, Brush/Roller Work, Both Faces, Paint Interior Wood Door .....	99.13	
For Oil Based Paint, Add	6.33	
For Half Louvered Door, Add	10.74	
For Full Louvered Door, Add	17.91	
For >5 To 10, Deduct	-4.96	
For >10 To 25, Deduct	-9.91	
For >25, Deduct	-14.87	
09 91 23 00-0274 EA 2 Coats Paint, Brush/Roller Work, Both Faces, Paint Interior Wood Door .....	176.19	
For Oil Based Paint, Add	11.56	
For Half Louvered Door, Add	18.18	
For Full Louvered Door, Add	30.29	
For >5 To 10, Deduct	-8.81	
For >10 To 25, Deduct	-17.62	
For >25, Deduct	-26.43	
09 91 23 00-0275 EA 1 Coat Primer, Sprayed, One Face, Paint Interior Wood Door .....	43.67	
For Oil Based Paint, Add	3.03	
For Half Louvered Door, Add	4.02	
For Full Louvered Door, Add	6.71	
For >5 To 10, Deduct	-2.18	
For >10 To 25, Deduct	-4.37	
For >25, Deduct	-6.55	
09 91 23 00-0276 EA 1 Coat Paint, Sprayed, One Face, Paint Interior Wood Door .....	43.67	
For Oil Based Paint, Add	3.03	
For Half Louvered Door, Add	4.02	
For Full Louvered Door, Add	6.71	
For >5 To 10, Deduct	-2.18	
For >10 To 25, Deduct	-4.37	
For >25, Deduct	-6.55	
09 91 23 00-0277 EA 2 Coats Paint, Sprayed, One Face, Paint Interior Wood Door .....	78.80	
For Oil Based Paint, Add	5.61	
For Half Louvered Door, Add	6.80	
For Full Louvered Door, Add	11.34	
For >5 To 10, Deduct	-3.94	
For >10 To 25, Deduct	-7.88	
For >25, Deduct	-11.82	
09 91 23 00-0278 EA 1 Coat Primer, Sprayed, Both Faces, Paint Interior Wood Door .....	78.37	
For Oil Based Paint, Add	5.43	
For Half Louvered Door, Add	7.22	
For Full Louvered Door, Add	12.03	
For >5 To 10, Deduct	-3.92	
For >10 To 25, Deduct	-7.84	
For >25, Deduct	-11.76	
09 91 23 00-0279 EA 1 Coat Paint, Sprayed, Both Faces, Paint Interior Wood Door .....	78.37	
For Oil Based Paint, Add	5.43	
For Half Louvered Door, Add	7.22	
For Full Louvered Door, Add	12.03	
For >5 To 10, Deduct	-3.92	
For >10 To 25, Deduct	-7.84	
For >25, Deduct	-11.76	
09 91 23 00-0280 EA 2 Coats Paint, Sprayed, Both Faces, Paint Interior Wood Door .....	141.94	
For Oil Based Paint, Add	10.12	
For Half Louvered Door, Add	12.21	
For Full Louvered Door, Add	20.36	
For >5 To 10, Deduct	-7.10	
For >10 To 25, Deduct	-14.19	
For >25, Deduct	-21.29	

09 91 23 00-0281 Paint Interior Metal Windows (09 91 23 00-0247)  
 Note: Two finish coats paint over rust inhibitive primer.

**09 Finishes**  
**09 90 Painting and Coating**  
**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0282	EA		Up To 8 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	103.21	
			<i>For Oil Based Paint, Add</i>	5.84	
			<i>For Electrostatic Painting, Add</i>	12.37	
			<i>For &gt;5 To 10, Deduct</i>	-5.16	
			<i>For &gt;10 To 25, Deduct</i>	-10.32	
			<i>For &gt;25, Deduct</i>	-15.48	
09 91 23 00-0283	EA		>8 To 14 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	124.42	
			<i>For Oil Based Paint, Add</i>	7.28	
			<i>For Electrostatic Painting, Add</i>	15.61	
			<i>For &gt;5 To 10, Deduct</i>	-6.22	
			<i>For &gt;10 To 25, Deduct</i>	-12.44	
			<i>For &gt;25, Deduct</i>	-18.66	
09 91 23 00-0284	EA		>14 To 20 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	167.75	
			<i>For Oil Based Paint, Add</i>	9.89	
			<i>For Electrostatic Painting, Add</i>	21.28	
			<i>For &gt;5 To 10, Deduct</i>	-8.39	
			<i>For &gt;10 To 25, Deduct</i>	-16.78	
			<i>For &gt;25, Deduct</i>	-25.16	
09 91 23 00-0285	EA		>20 To 26 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	188.89	
			<i>For Oil Based Paint, Add</i>	11.14	
			<i>For Electrostatic Painting, Add</i>	23.98	
			<i>For &gt;5 To 10, Deduct</i>	-9.44	
			<i>For &gt;10 To 25, Deduct</i>	-18.89	
			<i>For &gt;25, Deduct</i>	-28.33	
09 91 23 00-0286	EA		>26 To 34 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	209.48	
			<i>For Oil Based Paint, Add</i>	12.34	
			<i>For Electrostatic Painting, Add</i>	26.54	
			<i>For &gt;5 To 10, Deduct</i>	-10.47	
			<i>For &gt;10 To 25, Deduct</i>	-20.95	
			<i>For &gt;25, Deduct</i>	-31.42	
09 91 23 00-0287	SF		>34 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Metal Window Including Trim, Brush/Roller Work	6.66	
			<i>For Oil Based Paint, Add</i>	0.39	
			<i>For Electrostatic Painting, Add</i>	0.84	
<b>09 91 23 00-0288</b>			<b>Paint Interior Wood Windows</b> (09 91 23 00-0247)		
			Note: Two finish coats paint over primer.		
09 91 23 00-0289	EA		Up To 8 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	99.71	
			<i>For Oil Based Paint, Add</i>	5.49	
			<i>For &gt;5 To 10, Deduct</i>	-4.99	
			<i>For &gt;10 To 25, Deduct</i>	-9.97	
			<i>For &gt;25, Deduct</i>	-14.96	
09 91 23 00-0290	EA		>8 To 14 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	119.01	
			<i>For Oil Based Paint, Add</i>	6.74	
			<i>For &gt;5 To 10, Deduct</i>	-5.95	
			<i>For &gt;10 To 25, Deduct</i>	-11.90	
			<i>For &gt;25, Deduct</i>	-17.85	
09 91 23 00-0291	EA		>14 To 20 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	163.95	
			<i>For Oil Based Paint, Add</i>	9.31	
			<i>For &gt;5 To 10, Deduct</i>	-8.20	
			<i>For &gt;10 To 25, Deduct</i>	-16.40	
			<i>For &gt;25, Deduct</i>	-24.59	
09 91 23 00-0292	EA		>20 To 26 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	184.59	
			<i>For Oil Based Paint, Add</i>	10.49	
			<i>For &gt;5 To 10, Deduct</i>	-9.23	
			<i>For &gt;10 To 25, Deduct</i>	-18.46	
			<i>For &gt;25, Deduct</i>	-27.69	
09 91 23 00-0293	EA		>26 To 34 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	199.93	
			<i>For Oil Based Paint, Add</i>	11.38	
			<i>For &gt;5 To 10, Deduct</i>	-10.00	
			<i>For &gt;10 To 25, Deduct</i>	-19.99	
			<i>For &gt;25, Deduct</i>	-29.99	
09 91 23 00-0294	SF		>34 SF Window Size, 1 Coat Primer And Two Coats Paint, Brush Work, Interior Wood Windows Including Trim, Brush/Roller Work	6.69	
			<i>For Oil Based Paint, Add</i>	0.38	
<b>09 91 23 00-0295</b>			<b>Paint Interior Security Screens</b> (09 91 23 00-0247)		
09 91 23 00-0296	SF		1 Coat Primer, Brush/Roller Work, Paint Interior Security Screen	1.58	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Electrostatic Painting, Add</i>	0.20	
09 91 23 00-0297	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Security Screen	1.62	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Electrostatic Painting, Add</i>	0.20	



		<b>Finishes</b>	<b>09</b>
		<b>Painting and Coating</b>	<b>09 90</b>
		<b>Painting</b>	<b>09 91</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0298	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Security Screen..... <i>For Oil Based Paint, Add</i> <i>For Electrostatic Painting, Add</i>	2.68 0.15 0.33	
<b>09 91 23 00-0299</b>			<b>Paint Interior Window Guards (09 91 23 00-0247)</b>		
09 91 23 00-0300	SF		1 Coat Primer, Brush/Roller Work, Paint Interior Metal Window Guards ..... <i>For Oil Based Paint, Add</i>	1.58 0.09	
09 91 23 00-0301	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Metal Window Guards..... <i>For Oil Based Paint, Add</i>	1.62 0.09	
09 91 23 00-0302	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Metal Window Guards..... <i>For Oil Based Paint, Add</i>	2.68 0.15	
<b>09 91 23 00-0303</b>			<b>Paint Interior Window Trim (09 91 23 00-0247)</b>		
09 91 23 00-0304	LF		1 Coat Primer, Brush/Roller Work, Paint Interior Wood Window Frame And Trim..... <i>For Oil Based Paint, Add</i> <i>For Painting One Face Of Frame Only, Deduct</i>	1.53 0.09 -0.43	
09 91 23 00-0305	LF		1 Coat Paint, Brush/Roller Work, Paint Interior Wood Window Frame And Trim ..... <i>For Oil Based Paint, Add</i> <i>For Painting One Face Of Frame Only, Deduct</i>	1.53 0.09 -0.43	
09 91 23 00-0306	LF		2 Coats Paint, Brush/Roller Work, Paint Interior Wood Window Frame And Trim ..... <i>For Oil Based Paint, Add</i> <i>For Painting One Face Of Frame Only, Deduct</i>	3.34 0.20 -0.92	
09 91 23 00-0307	LF		1 Coat Primer, Brush/Roller Work, Paint Interior Metal Window Frame And Trim ..... Note: Brush/roller work. <i>For Painting One Face Of Frame Only, Deduct</i>	1.70  -0.49	
09 91 23 00-0308	LF		1 Coat Paint, Brush/Roller Work, Paint Interior Metal Window Frame And Trim ..... Note: Brush/roller work. <i>For Painting One Face Of Frame Only, Deduct</i>	1.70  -0.49	
09 91 23 00-0309	LF		2 Coats Paint, Brush/Roller Work, Paint Interior Metal Window Frame And Trim..... Note: Brush/roller work. <i>For Painting One Face Of Frame Only, Deduct</i>	3.67  -1.05	
<b>09 91 23 00-0310</b>			<b>Paint Interior Cabinets And Casework (09 91 23)</b>		
<b>09 91 23 00-0311</b>			<b>Paint Interior Wood Cabinets And Casework (09 91 23 00-0310)</b>		
09 91 23 00-0312	SF		1 Coat Paint, Brush/Roller Work, Paint Interior Wood Cabinets And Casework ..... <i>For &gt;5,000 To 10,000, Deduct</i> <i>For &gt;10,000 To 20,000, Deduct</i> <i>For &gt;20,000, Deduct</i>	1.45 -0.07 -0.15 -0.22	
09 91 23 00-0313	SF		1 Coat Enamel Primer And 1 Coat Alkyd Or Latex Paint, Brush/Roller Work, Paint Interior Wood Cabinets And Casework ..... <i>For &gt;5,000 To 10,000, Deduct</i> <i>For &gt;10,000 To 20,000, Deduct</i> <i>For &gt;20,000, Deduct</i>	2.00 -0.10 -0.20 -0.30	
09 91 23 00-0314	SF		1 Coat Enamel Primer And 2 Coats Alkyd Or Latex Paint, Brush/Roller Work, Paint Interior Wood Cabinets And Casework ..... <i>For &gt;5,000 To 10,000, Deduct</i> <i>For &gt;10,000 To 20,000, Deduct</i> <i>For &gt;20,000, Deduct</i>	3.19 -0.16 -0.32 -0.48	
<b>09 91 23 00-0315</b>			<b>Paint Exposed Metal Lockers And Cabinets (09 91 23 00-0310)</b>		
09 91 23 00-0316	SF		1 Coat Primer, Brush/Roller Work, Paint Exposed Metal Locker ..... <i>For &gt;5,000 To 10,000, Deduct</i> <i>For &gt;10,000 To 20,000, Deduct</i> <i>For &gt;20,000, Deduct</i>	1.46 -0.07 -0.15 -0.22	
09 91 23 00-0317	SF		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Exposed Metal Locker ..... <i>For &gt;5,000 To 10,000, Deduct</i> <i>For &gt;10,000 To 20,000, Deduct</i> <i>For &gt;20,000, Deduct</i>	1.49 -0.07 -0.15 -0.22	
09 91 23 00-0318	SF		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Exposed Metal Locker ..... <i>For &gt;5,000 To 10,000, Deduct</i> <i>For &gt;10,000 To 20,000, Deduct</i> <i>For &gt;20,000, Deduct</i>	2.75 -0.14 -0.28 -0.41	
<b>09 91 23 00-0319</b>			<b>Paint Interior Stairs (09 91 23)</b>		
<b>09 91 23 00-0320</b>			<b>Paint Interior Concrete Stairs (09 91 23 00-0319)</b> Note: Includes the riser and tread.		
09 91 23 00-0321	RSR		1 Coat Primer, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide) .....	20.10	
09 91 23 00-0322	RSR		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide).....	20.10	
09 91 23 00-0323	RSR		1 Coat Non-Slip Paint, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide)..... Note: Excludes riser.	16.40	
09 91 23 00-0324	RSR		1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide)..... Note: Excludes riser.	33.71	
09 91 23 00-0325	RSR		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Interior Concrete Stair (To 4' Wide).....	40.22	
<b>09 91 23 00-0326</b>			<b>Paint Interior Metal Stairs (09 91 23 00-0319)</b> Note: Includes the riser and tread.		

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
09 91 23 00-0327	RSR	1 Coat Primer, Brush/Roller Work, Paint Interior Metal Stair (To 4' Wide)	10.94	
09 91 23 00-0328	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Interior Metal Stair (To 4' Wide)	10.52	
09 91 23 00-0329	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Interior Metal Stair (To 4' Wide)	21.04	
<b>09 91 23 00-0330</b>		<b>Paint Interior Wood Stairs</b> <small>(09 91 23 00-0319)</small>		
		Note: Includes the riser and tread.		
09 91 23 00-0331	RSR	1 Coat Primer, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide)	10.33	
09 91 23 00-0332	RSR	1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide)	10.33	
09 91 23 00-0333	RSR	1 Coat Non-Slip Paint, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide)	11.51	
		Note: Excludes riser.		
09 91 23 00-0334	RSR	1 Coat Non-Slip Epoxy Paint, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide)	28.82	
		Note: Excludes riser.		
09 91 23 00-0335	RSR	2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Interior Wood Stair (To 4' Wide)	20.65	
<b>09 91 23 00-0336</b>		<b>Paint Interior Stair Nosing</b> <small>(09 91 23 00-0319)</small>		
09 91 23 00-0337	LF	1 Coat Paint, Up To 2", Non-Slip, Brush Work, Paint Interior Yellow Stair Safety Strip	1.79	
<b>09 91 23 00-0338</b>		<b>Paint Interior Trim</b> <small>(09 91 23)</small>		
<b>09 91 23 00-0339</b>		<b>Paint Interior Metal Trim</b> <small>(09 91 23 00-0338)</small>		
09 91 23 00-0340	SF	1 Coat Primer, Brush Work, Paint Interior Exposed Metal Trim	1.35	
		<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
		Note: Applied only to work area above 15' to 20'.		
		<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.29	
		Note: Applied only to work area above 20' to 30'.		
		<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.46	
		Note: Applied only to work area above 30' to 40'.		
		<i>For Work &gt;40' Above Floor, Add</i>	0.63	
		Note: Applied only to work area above 40'.		
09 91 23 00-0341	SF	1 Coat Paint, Brush Work, Paint Interior Exposed Metal Trim	1.47	
		<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.19	
		Note: Applied only to work area above 15' to 20'.		
		<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.32	
		Note: Applied only to work area above 20' to 30'.		
		<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.51	
		Note: Applied only to work area above 30' to 40'.		
		<i>For Work &gt;40' Above Floor, Add</i>	0.70	
		Note: Applied only to work area above 40'.		
09 91 23 00-0342	SF	2 Coats Paint, Brush Work, Paint Interior Exposed Metal Trim	2.65	
		<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.34	
		Note: Applied only to work area above 15' to 20'.		
		<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.57	
		Note: Applied only to work area above 20' to 30'.		
		<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.90	
		Note: Applied only to work area above 30' to 40'.		
		<i>For Work &gt;40' Above Floor, Add</i>	1.24	
		Note: Applied only to work area above 40'.		
09 91 23 00-0343	SF	1 Coat Primer, Brush/Roller Work, Paint Interior Exposed Metal Trim	1.12	
		<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
		Note: Applied only to work area above 15' to 20'.		
		<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.23	
		Note: Applied only to work area above 20' to 30'.		
		<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.37	
		Note: Applied only to work area above 30' to 40'.		
		<i>For Work &gt;40' Above Floor, Add</i>	0.51	
		Note: Applied only to work area above 40'.		
09 91 23 00-0344	SF	1 Coat Paint, Brush/Roller Work, Paint Interior Exposed Metal Trim	1.22	
		<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.15	
		Note: Applied only to work area above 15' to 20'.		
		<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.26	
		Note: Applied only to work area above 20' to 30'.		
		<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.41	
		Note: Applied only to work area above 30' to 40'.		
		<i>For Work &gt;40' Above Floor, Add</i>	0.56	
		Note: Applied only to work area above 40'.		
09 91 23 00-0345	SF	2 Coats Paint, Brush/Roller Work, Paint Interior Exposed Metal Trim	2.19	
		<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.27	
		Note: Applied only to work area above 15' to 20'.		
		<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.45	
		Note: Applied only to work area above 20' to 30'.		
		<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.72	
		Note: Applied only to work area above 30' to 40'.		
		<i>For Work &gt;40' Above Floor, Add</i>	0.99	
		Note: Applied only to work area above 40'.		
<b>09 91 23 00-0346</b>		<b>Paint Interior Wood Trim</b> <small>(09 91 23 00-0338)</small>		





<b>Finishes</b>	<b>09</b>	<b>9</b>
Painting and Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0347 LF 1 Coat Primer, Brush Work, Paint Interior Wood Trim To 6" Wide.....	0.90	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.21	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.33	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.46	
Note: Applied only to work area above 40'.		
For Oil Based Paint, Add	0.05	
09 91 23 00-0348 LF 1 Coat Paint, Brush Work, Paint Interior Wood Trim To 6" Wide.....	0.99	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Oil Based Paint, Add	0.05	
09 91 23 00-0349 LF 2 Coats Paint, Brush Work, Paint Interior Wood Trim To 6" Wide.....	2.07	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.49	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.78	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.08	
Note: Applied only to work area above 40'.		
For Oil Based Paint, Add	0.11	
09 91 23 00-0350 SF 1 Coat Primer, Brush Work, Paint Interior Wood Trim.....	2.74	
For Work >15' To 20' Above Floor, Add	0.37	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.61	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.98	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.35	
Note: Applied only to work area above 40'.		
For Oil Based Paint, Add	0.15	
09 91 23 00-0351 SF 1 Coat Paint, Brush Work, Paint Interior Wood Trim.....	3.04	
For Work >15' To 20' Above Floor, Add	0.41	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.68	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	1.09	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.50	
Note: Applied only to work area above 40'.		
For Oil Based Paint, Add	0.17	
09 91 23 00-0352 SF 2 Coats Paint, Brush Work, Paint Interior Wood Trim.....	5.52	
For Work >15' To 20' Above Floor, Add	0.73	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	1.22	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	1.95	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	2.68	
Note: Applied only to work area above 40'.		
For Oil Based Paint, Add	0.31	
09 91 23 00-0353 SF 1 Coat Primer, Brush/Roller Work, Paint Interior Wood Trim.....	2.24	
For Work >15' To 20' Above Floor, Add	0.29	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.49	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.78	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.07	
Note: Applied only to work area above 40'.		
For Oil Based Paint, Add	0.13	
09 91 23 00-0354 SF 1 Coat Paint, Brush/Roller Work, Paint Interior Wood Trim.....	2.50	
For Work >15' To 20' Above Floor, Add	0.33	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.55	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.87	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	1.20	
Note: Applied only to work area above 40'.		
For Oil Based Paint, Add	0.14	

**09 Finishes**

**09 90 Painting and Coating**

**09 91 Painting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0355	SF		2 Coats Paint, Brush/Roller Work, Paint Interior Wood Trim.....	4.51	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.58	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.97	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	1.54	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	2.12	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Oil Based Paint, Add</i>	0.26	
09 91 23 00-0356			<b>Paint Interior Metal Surfaces</b> <small>(09 91 23)</small>		
09 91 23 00-0357			<b>Paint Interior Miscellaneous Metal Surfaces</b> <small>(09 91 23 00-0356)</small>		
09 91 23 00-0358	SF		1 Coat Alkyd Anticorrosive Metal Primer, Brush/Roller Work, Paint Interior Miscellaneous Metal Surfaces.....	0.93	
			<i>For Electrostatic Painting, Add</i>	0.12	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.11	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.18	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.29	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.40	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.58	
			<i>For &gt;100 To 250, Add</i>	0.28	
			<i>For &gt;250 To 500, Add</i>	0.12	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.09	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.19	
09 91 23 00-0359	SF		1 Coat Alkyd Enamel Paint, Brush/Roller Work, Paint Interior Miscellaneous Metal Surfaces.....	1.10	
			<i>For Electrostatic Painting, Add</i>	0.14	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.23	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.36	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.50	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.71	
			<i>For &gt;100 To 250, Add</i>	0.34	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.22	
09 91 23 00-0360	SF		2 Coats Alkyd Enamel Paint, Brush/Roller Work, Paint Interior Miscellaneous Metal Surfaces.....	1.98	
			<i>For Electrostatic Painting, Add</i>	0.25	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.41	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.65	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.90	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	1.28	
			<i>For &gt;100 To 250, Add</i>	0.61	
			<i>For &gt;250 To 500, Add</i>	0.26	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.20	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.30	
			<i>For &gt;20,000, Deduct</i>	-0.40	
09 91 23 00-0361	SF		1 Coat Alkyd Anticorrosive Metal Primer, Sprayed, Paint Interior Miscellaneous Metal Surfaces.....	1.18	
			<i>For Electrostatic Painting, Add</i>	0.15	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20' to 30'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.53	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.75	
			<i>For &gt;100 To 250, Add</i>	0.36	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.12	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.18	
			<i>For &gt;20,000, Deduct</i>	-0.24	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0362 SF 1 Coat Alkyd Enamel Paint, Sprayed, Paint Interior Miscellaneous Metal Surfaces .....	1.18	
For Electrostatic Painting, Add	0.15	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.53	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.75	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 23 00-0363 SF 2 Coats Alkyd Enamel Paint, Sprayed, Paint Interior Miscellaneous Metal Surfaces .....	1.90	
For Electrostatic Painting, Add	0.25	
For Work >15' To 20' Above Floor, Add	0.22	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.37	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	0.59	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.81	
Note: Applied only to work area above 40'.		
For Up To 100, Add	1.17	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.38	
<b>09 91 23 00-0364 Paint Additives (09 91 23)</b>		
09 91 23 00-0365 SF Mildewcide/Mold Killing Paint Additive Per Each Coat .....	0.02	
09 91 23 00-0366 SF Class "B" Fire Rating, Fire Resistant Paint Additive .....	0.08	
For Class "A" Fire Rating, Add	0.08	
<b>09 91 23 00-0367 Hand Painting Letters/Numbers (09 91 23)</b>		
Note: Painting on walls, floors, poles, signs, etc.		
09 91 23 00-0368 EA Up To 1" High, Hand Paint, Per Letter/Number .....	2.78	
09 91 23 00-0369 EA 1" To 2" High, Hand Paint, Per Letter/Number .....	3.24	
09 91 23 00-0370 EA 2" To 3" High, Hand Paint, Per Letter/Number .....	4.92	
09 91 23 00-0371 EA 3" To 4" High, Hand Paint, Per Letter/Number .....	6.02	
09 91 23 00-0372 EA 4" To 6" High, Hand Paint, Per Letter/Number .....	8.31	
09 91 23 00-0373 EA 6" To 12" High, Hand Paint, Per Letter/Number .....	10.52	
09 91 23 00-0374 EA Over 12" High, Hand Paint, Per Letter/Number .....	12.34	
<b>09 91 23 00-0375 Glove/Mitt Application (09 91 23)</b>		
<b>09 91 23 00-0376 Conduit/Pipe (09 91 23 00-0375)</b>		
09 91 23 00-0377 CSF Acid Wash (Muriatic Acid) Conduit Or Pipe With Glove/Mitt .....	52.64	
For Work >15' To 20' Above Floor, Add	7.44	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	12.40	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	19.84	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	27.27	
Note: Applied only to work area above 40'.		
09 91 23 00-0378 CSF Metal Primer Conduit Or Pipe With Glove/Mitt .....	84.14	
For Work >15' To 20' Above Floor, Add	8.93	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	14.88	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	23.80	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	32.73	
Note: Applied only to work area above 40'.		
09 91 23 00-0379 CSF Enamel Paint, Oil Base Paint, First Coat Conduit Or Pipe With Glove/Mitt .....	65.81	
For Work >15' To 20' Above Floor, Add	6.54	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	10.91	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	17.45	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	24.00	
Note: Applied only to work area above 40'.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0380 CSF Enamel Paint, Oil Base Paint, Second Coat Conduit Or Pipe With Glove/Mitt.....	53.50	
For Work >15' To 20' Above Floor, Add	4.91	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	8.18	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	13.09	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	18.00	
Note: Applied only to work area above 40'.		
09 91 23 00-0381 CSF Epoxy Paint, First Coat Conduit Or Pipe With Glove/Mitt.....	99.68	
For Work >15' To 20' Above Floor, Add	7.44	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	12.40	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	19.84	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	27.27	
Note: Applied only to work area above 40'.		
09 91 23 00-0382 CSF Epoxy Paint, Second Coat Conduit Or Pipe With Glove/Mitt .....	91.64	
For Work >15' To 20' Above Floor, Add	6.54	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	10.91	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	17.45	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	24.00	
Note: Applied only to work area above 40'.		
<b>09 91 23 00-0383 Ductwork</b> <small>(09 91 23 00-0375)</small>		
09 91 23 00-0384 CSF Acid Wash (Muriatic Acid) Ductwork With Glove/Mitt.....	52.64	
For Work >15' To 20' Above Floor, Add	7.44	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	12.40	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	19.84	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	27.27	
Note: Applied only to work area above 40'.		
09 91 23 00-0385 CSF Metal Primer Ductwork With Glove/Mitt .....	76.32	
For Work >15' To 20' Above Floor, Add	7.44	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	12.40	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	19.84	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	27.27	
Note: Applied only to work area above 40'.		
09 91 23 00-0386 CSF Enamel Paint, Oil Base Paint Ductwork With Glove/Mitt.....	59.81	
For Work >15' To 20' Above Floor, Add	5.95	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	9.92	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	15.87	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	21.82	
Note: Applied only to work area above 40'.		
09 91 23 00-0387 CSF Epoxy Paint, First Coat Ductwork With Glove/Mitt.....	96.08	
For Work >15' To 20' Above Floor, Add	7.44	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	12.40	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	19.84	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	27.27	
Note: Applied only to work area above 40'.		
09 91 23 00-0388 CSF Epoxy Paint, Second Coat Ductwork With Glove/Mitt.....	83.25	
For Work >15' To 20' Above Floor, Add	5.95	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	9.92	
Note: Applied only to work area above 20' to 30'.		
For Work >30' To 40' Above Floor, Add	15.87	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	21.82	
Note: Applied only to work area above 40'.		
<b>09 91 23 00-0389 Stencil Painting Letters/Numbers</b> <small>(09 91 23)</small>		
Note: Painting on walls, floors, poles, etc. Includes stencil cutout and paint.		
09 91 23 00-0390 EA Up To 1" High, Stencil Painting, Per Letter/Number .....	2.26	
For >200 To 500, Deduct	-0.18	
For >500 To 1,000, Deduct	-0.28	
For >1,000 To 2,000, Deduct	-0.36	
For >2,000, Deduct	-0.45	



		<b>Finishes</b>	<b>09</b>
		<b>Painting and Coating</b>	<b>09 90</b>
		<b>Painting</b>	<b>09 91</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0391	EA		1" To 2" High, Stencil Painting, Per Letter/Number.....	2.62	
			<i>For &gt;200 To 500, Deduct</i>	-0.21	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.33	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-0.42	
			<i>For &gt;2,000, Deduct</i>	-0.52	
09 91 23 00-0392	EA		2" To 3" High, Stencil Painting, Per Letter/Number.....	4.44	
			<i>For &gt;200 To 500, Deduct</i>	-0.36	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.56	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-0.71	
			<i>For &gt;2,000, Deduct</i>	-0.89	
09 91 23 00-0393	EA		3" To 4" High, Stencil Painting, Per Letter/Number.....	5.45	
			<i>For &gt;200 To 500, Deduct</i>	-0.44	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.68	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-0.87	
			<i>For &gt;2,000, Deduct</i>	-1.09	
09 91 23 00-0394	EA		4" To 6" High, Stencil Painting, Per Letter/Number.....	7.49	
			<i>For &gt;200 To 500, Deduct</i>	-0.60	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.94	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-1.20	
			<i>For &gt;2,000, Deduct</i>	-1.50	
09 91 23 00-0395	EA		6" To 12" High, Stencil Painting, Per Letter/Number.....	9.96	
			<i>For &gt;200 To 500, Deduct</i>	-0.80	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.25	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-1.59	
			<i>For &gt;2,000, Deduct</i>	-1.99	
09 91 23 00-0396	EA		Over 12" High, Stencil Painting, Per Letter/Number.....	11.75	
			<i>For &gt;200 To 500, Deduct</i>	-0.94	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.47	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-1.88	
			<i>For &gt;2,000, Deduct</i>	-2.35	

**09 91 33 Painting Materials (09 91)**

Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.

09 91 33 00-0001	Primer (09 91 33)		
09 91 33 00-0002	GAL	Alkyd Primer/Sealer, Interior, 500 SF Per Gallon.....	50.91
09 91 33 00-0003	GAL	Alkyd Wood Primer, Exterior, 400 SF Per Gallon.....	37.14
09 91 33 00-0004	GAL	Prime Coat Oil Wood Primer, 310 SF Per Gallon.....	47.09
09 91 33 00-0005	GAL	Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon.....	116.50
09 91 33 00-0006	EA	Cement Base Primer, 25 LB Sack.....	38.84
09 91 33 00-0007	GAL	Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon.....	59.87
09 91 33 00-0008	GAL	Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon.....	48.06
09 91 33 00-0009	GAL	Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF per Gallon.....	37.14
09 91 33 00-0010	GAL	Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon.....	33.74
09 91 33 00-0011	GAL	Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon.....	59.47
09 91 33 00-0012	GAL	Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon.....	49.52
09 91 33 00-0013	GAL	Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon.....	49.52
09 91 33 00-0014	GAL	Latex Wood Primer, Exterior, 300 SF Per Gallon.....	55.83
09 91 33 00-0015	GAL	Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon.....	36.41
09 91 33 00-0016	GAL	Red Alkyd Primer, 500 SF Per Gallon.....	87.13
09 91 33 00-0017	GAL	Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon.....	38.84
09 91 33 00-0018	GAL	Zinc Chromate Primer, 300 SF Per Gallon.....	31.07
09 91 33 00-0019	GAL	Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon.....	80.34
09 91 33 00-0020	GAL	Stain Killer, Alcohol Base.....	50.10
09 91 33 00-0021	GAL	Sealer, Primer Kilz, 400 SF Per Gallon.....	56.53
09 91 33 00-0022	Paint (09 91 33)		
09 91 33 00-0023	GAL	Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon.....	27.19
09 91 33 00-0024	GAL	Acrylic Urethane Sealer.....	134.80
09 91 33 00-0025	GAL	Asphalt-Fiber Roof And Foundation Coating, Solvent Type.....	14.56
		Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.	
09 91 33 00-0026	GAL	Concrete Enamel Epoxy, 350 SF Per Gallon.....	84.23
09 91 33 00-0027	GAL	Concrete Acrylic Sealer, 400 SF Per Gallon.....	44.18
09 91 33 00-0028	GAL	Tar Emulsion, Driveway Coating, 120 SF Per Gallon.....	14.56
09 91 33 00-0029	GAL	Acrylic Latex, Driveway Coating, 250 SF Per Gallon.....	22.09
09 91 33 00-0030	GAL	Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon.....	60.24
09 91 33 00-0031	GAL	Exterior, Oil Base, Gloss, 400 SF Per Gallon.....	59.47
09 91 33 00-0032	GAL	Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon.....	48.55
09 91 33 00-0033	GAL	Exterior, Flat, Oil Base.....	44.50
09 91 33 00-0034	GAL	Exterior, Latex, Semi-Gloss, 400 SF Per Gallon.....	42.24
09 91 33 00-0035	GAL	Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon.....	49.76
09 91 33 00-0036	GAL	Exterior, Latex Flat Paint, 300 SF Per Gallon.....	44.18
09 91 33 00-0037	GAL	Exterior, Water Base, Latex Gloss Enamel.....	62.88
09 91 33 00-0038	GAL	Cold Galvanizing Paint.....	350.41
09 91 33 00-0039	GAL	High Heat Paint.....	123.36
09 91 33 00-0040	GAL	Heat Resistant Paint.....	82.24
09 91 33 00-0041	GAL	Zinc Chromate Paint.....	74.40
09 91 33 00-0042	QT	Anti-Rust Enamel, 500 SF Per Quart.....	29.37
09 91 33 00-0043	GAL	Rust Inhibitor, Ferrous Metal.....	82.24
09 91 33 00-0044	GAL	Masonry Waterproofing, 100 SF Per Gallon.....	44.18
09 91 33 00-0045	GAL	Alkyd Latex, Black.....	61.03



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

09 91 33 00-0046	GAL Alkyd Latex, White .....	55.48
09 91 33 00-0047	GAL Alkyd Latex, Colors .....	66.90
09 91 33 00-0048	QT Wrought Iron Paint, Black .....	75.06
09 91 33 00-0049	GAL Vinyl Paint.....	74.28
09 91 33 00-0050	GAL Silicone Alkyd .....	90.30
09 91 33 00-0051	GAL 2 Component Solvent Based Acrylic Epoxy .....	91.75
09 91 33 00-0052	GAL 2 Component Solvent Based Polyester Epoxy .....	115.05
09 91 33 00-0053	GAL Chlorinated Rubber.....	84.47
09 91 33 00-0054	GAL Polyamide Epoxy Sealer.....	87.38
09 91 33 00-0055	GAL Coal Tar Epoxy .....	62.62
09 91 33 00-0056	GAL Swimming Pool Enamel, 350 SF Per Gallon.....	78.16
09 91 33 00-0057	GAL Swimming Pool Epoxy Or Urethane Base .....	101.95
09 91 33 00-0058	GAL Swimming Pool Rubber Base .....	69.91
09 91 33 00-0059	GAL Interior, Latex Flat Paint, 300 SF Per Gallon .....	44.42
09 91 33 00-0060	GAL Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon .....	54.74
09 91 33 00-0061	GAL Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon .....	91.02
09 91 33 00-0062	GAL Interior, Ceiling White Latex Flat, 350 SF Per Gallon .....	30.83
09 91 33 00-0063	GAL Linseed Oil.....	26.94
09 91 33 00-0064	GAL Latex Floor Paint, 300 SF Per Gallon .....	44.18
09 91 33 00-0065	GAL Acrylic Floor Paint, 400 SF Per Gallon.....	49.76
09 91 33 00-0066	GAL Textured Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon.....	45.51
09 91 33 00-0067	GAL Acoustic Spray-On Texture, Finish .....	36.57

### 09 91 33 00-0068 Stain, Varnish (09 91 33)

09 91 33 00-0069	GAL Thompson Water Sealer, 150 SF Per Gallon.....	25.24
09 91 33 00-0070	GAL Latex Redwood Stain, Water Base, 300 SF Per Gallon.....	47.09
09 91 33 00-0071	GAL Redwood Oil Stain, 300 SF Per Gallon.....	41.99
09 91 33 00-0072	GAL Varnish, Clear .....	41.33
09 91 33 00-0073	GAL Penetrating Water-Repellent Stain .....	30.02
09 91 33 00-0074	GAL Redwood Hue Or Clear Stain .....	26.83
09 91 33 00-0075	GAL Polyurethane.....	47.10
09 91 33 00-0076	GAL Lacquer, Semi-Gloss .....	44.31
09 91 33 00-0077	GAL Shellac, Clear .....	58.13
09 91 33 00-0078	GAL Acetone.....	19.18
09 91 33 00-0079	GAL Paint Thinner .....	4.73
09 91 33 00-0080	GAL Shellac Or Lacquer Thinner .....	19.42
09 91 33 00-0081	GAL Turpentine.....	26.70
09 91 33 00-0082	GAL Wood Filler Paste .....	45.63
09 91 33 00-0083	GAL Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon .....	36.41
09 91 33 00-0084	GAL Waterbased Alkyd Urethane (Sherwin Williams B53W01153).....	102.68

### 09 91 43 Surface Preparation (09 91)

See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.

## 09 93 Staining and Transparent Finishing (09 90)

Note: Includes light sanding or screening between coats.

### 09 93 13 Exterior Staining and Finishing (09 93)

#### 09 93 13 53 Exterior Finishing (09 93 13)

#### 09 93 13 53-0001 Stain Sealer (09 93 13 53)

Note: Measured by surface area of wall or ceiling.

09 93 13 53-0002	SF Stain Sealer, Brush Work.....	1.09
	<i>For Ceiling Work, Add</i>	<i>0.15</i>
	<i>For &gt;5,000 To 10,000, Deduct</i>	<i>-0.03</i>
	<i>For &gt;10,000 To 20,000, Deduct</i>	<i>-0.06</i>
	<i>For &gt;20,000, Deduct</i>	<i>-0.09</i>
09 93 13 53-0003	SF Stain Sealer, Brush/Roller Work .....	0.87
	<i>For Ceiling Work, Add</i>	<i>0.11</i>
	<i>For &gt;5,000 To 10,000, Deduct</i>	<i>-0.02</i>
	<i>For &gt;10,000 To 20,000, Deduct</i>	<i>-0.05</i>
	<i>For &gt;20,000, Deduct</i>	<i>-0.07</i>
09 93 13 53-0004	SF Stain Sealer, Sprayed.....	0.34
	<i>For Ceiling Work, Add</i>	<i>0.03</i>
	<i>For &gt;5,000 To 10,000, Deduct</i>	<i>-0.01</i>
	<i>For &gt;10,000 To 20,000, Deduct</i>	<i>-0.02</i>
	<i>For &gt;20,000, Deduct</i>	<i>-0.03</i>

### 09 93 23 Interior Staining and Finishing (09 93)

Note: VOC compliant in all regulated areas, review specifications for levels.

#### 09 93 23 13 Interior Staining (09 93 23)

#### 09 93 23 13-0001 Stain Wood Trim (09 93 23 13)

09 93 23 13-0002	LF Stain Wood Trim, Up To 6" Wide, 1 Coat Stain, With Brush And Wipe Off.....	1.32
	<i>For Up To 100, Add</i>	<i>0.94</i>
	<i>For &gt;100 To 250, Add</i>	<i>0.44</i>
	<i>For &gt;250 To 500, Add</i>	<i>0.19</i>
	<i>For &gt;4,000, Deduct</i>	<i>-0.07</i>



<b>Finishes</b>	<b>09</b>	
<b>Painting and Coating</b>	<b>09 90</b>	<b>09</b>
<b>Staining and Transparent Finishing</b>	<b>09 93</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 93 23 13-0003 SF Stain Wood Trim, 1 Coat Stain, With Brush And Wipe Off.....	1.96	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
For >4,000, Deduct	-0.10	
<b>09 93 23 13-0004 Stain Wood Floor (09 93 23 13)</b>		
09 93 23 13-0005 SF Stain Or Varnish Wood Floor, 1 Coat Stain, Brush Work.....	0.62	
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >4,000, Deduct	-0.03	
09 93 23 13-0006 SF Stain Or Varnish Wood Floor, 1 Coat Stain, Brush/Roller Work .....	0.46	
For Up To 100, Add	0.26	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >4,000, Deduct	-0.02	
<b>09 93 23 13-0007 Stain Wood Door And Window (09 93 23 13)</b>		
09 93 23 13-0008 EA Stain Wood Door, 1 Coat Stain With Brush And Wipe Off Wood Door (Per Face).....	63.59	
For Up To 4, Add	46.43	
For >4 To 10, Add	21.73	
For >10 To 20, Add	9.33	
For >160, Deduct	-3.18	
09 93 23 13-0009 EA Stain Wood Window, 1 Coat Stain With Brush And Wipe Off Wood Window And Frame (Per Face).....	45.23	
For Up To 4, Add	32.07	
For >4 To 10, Add	15.06	
For >10 To 20, Add	6.48	
For >160, Deduct	-2.26	
<b>09 93 23 13-0010 Stain Wood Cabinet (09 93 23 13)</b>		
09 93 23 13-0011 SF Stain Cabinet, 1 Coat Stain With Brush And Wipe.....	1.59	
<b>09 93 23 53 Interior Finishing (09 93 23)</b>		
<b>09 93 23 53-0001 Concrete Finishes (09 93 23 53)</b>		
09 93 23 53-0002 SF Finish Concrete Floor, 1 Coat Polyurethane.....	0.93	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >4,000, Deduct	-0.05	
<b>09 93 23 53-0003 Wood Trim Finishes (09 93 23 53)</b>		
09 93 23 53-0004 SF Finish Wood Trim, 1 Coat Sealer And 1 Coat Varnish Or Polyurethane.....	1.60	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
For >4,000, Deduct	-0.08	
09 93 23 53-0005 SF Finish Wood Trim, 1 Coat Varnish Or Polyurethane.....	1.06	
For Up To 100, Add	0.74	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >4,000, Deduct	-0.05	
<b>09 93 23 53-0006 Wood Floor Finishes (09 93 23 53)</b>		
09 93 23 53-0007 SF Refinish Wood Floor, 2 Coats Polyurethane.....	3.56	
Note: Includes sanding existing floor.		
For Up To 100, Add	2.53	
For >100 To 250, Add	1.19	
For >250 To 500, Add	0.51	
For >4,000, Deduct	-0.18	
09 93 23 53-0008 SF Polyurethane Wood Floor, 1 Coat Polyurethane, With Wool Applicator Or Brush Work.....	0.81	
Note: Includes screening between coats.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >4,000, Deduct	-0.04	
09 93 23 53-0009 SF Refinish Wood Floor, 1 Coat Sealer And 2 Coats Polyurethane.....	4.04	
Note: Includes sanding existing floor.		
For Up To 100, Add	2.85	
For >100 To 250, Add	1.34	
For >250 To 500, Add	0.58	
For >4,000, Deduct	-0.20	
<b>09 93 23 53-0010 Wood Door And Window Finishes (09 93 23 53)</b>		

**09 Finishes**

**09 90 Painting and Coating**

**09 93 Staining and Transparent Finishing**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 93 23 53-0011	EA		Varnish Or Polyurethane Wood Door, 1 Coat Shellac (Per Face) .....	45.93	
			<i>For Up To 4, Add</i>	33.45	
			<i>For &gt;4 To 10, Add</i>	15.66	
			<i>For &gt;10 To 20, Add</i>	6.72	
			<i>For &gt;160, Deduct</i>	-2.30	
09 93 23 53-0012	EA		Varnish Or Polyurethane Wood Door, 3 Coats Shellac, With Light Sanding Between Coats (Per Face) .....	139.21	
			<i>For Up To 4, Add</i>	99.84	
			<i>For &gt;4 To 10, Add</i>	46.82	
			<i>For &gt;10 To 20, Add</i>	20.12	
			<i>For &gt;160, Deduct</i>	-6.96	
<b>09 93 23 53-0013</b>			<b>Cabinet Finishes</b> <small>(09 93 23 53)</small>		
09 93 23 53-0014	SF		Finish Cabinet, 1 Coat Shellac, Varnish Or Polyurethane.....	1.59	
<b>09 93 23 53-0015</b>			<b>Gym, Stage And Dance Floor Finishes</b> <small>(09 93 23 53)</small>		
09 93 23 53-0016	SF		Yearly Maintenance Refinish Of Gym, Stage Or Dance Floor .....	1.04	
			Note: Includes screening, one coat of finish and buffing. Excludes repainting of game lines.		
09 93 23 53-0017	SF		Finish New Elementary School Wood Gym, Stage Or Dance Floor .....	4.57	
			Note: Includes sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
			<i>For Stage Or Dance Floors, Deduct</i>	-0.09	
09 93 23 53-0018	SF		Finish New Middle Or Junior School Wood Gym, Stage Or Dance Floor .....	4.66	
			Note: Includes sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
			<i>For Stage Or Dance Floors, Deduct</i>	-0.09	
09 93 23 53-0019	SF		Finish New High School Wood Gym, Stage Or Dance Floor .....	4.76	
			Note: Includes sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
			<i>For Stage Or Dance Floors, Deduct</i>	-0.10	
09 93 23 53-0020	SF		Refinish Existing Elementary School Wood Gym, Stage Or Dance Floor.....	4.57	
			Note: Includes removal of existing finish and sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
			<i>For Stage Or Dance Floors, Deduct</i>	-0.09	
09 93 23 53-0021	SF		Refinish Existing Middle Or Junior School Wood Gym, Stage Or Dance Floor.....	4.66	
			Note: Includes removal of existing finish and sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
			<i>For Stage Or Dance Floors, Deduct</i>	-0.09	
09 93 23 53-0022	SF		Refinish Existing High School Wood Gym, Stage Or Dance Floor .....	4.76	
			Note: Includes removal of existing finish and sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats.		
			<i>For Stage Or Dance Floors, Deduct</i>	-0.10	
<b>09 96 High-Performance Coatings</b> <small>(09 90)</small>					
<b>09 96 23 Graffiti-Resistant Coatings</b> <small>(09 96)</small>					
<b>09 96 23 00-0001 Anti-Graffiti Coating</b> <small>(09 96 23)</small>					
09 96 23 00-0002	SF		Sacrificial Anti-Graffiti Coating, Per Coat .....	1.64	
			<i>For Up To 100, Add</i>	0.99	
			<i>For &gt;100 To 250, Add</i>	0.47	
			<i>For &gt;250 To 500, Add</i>	0.21	
09 96 23 00-0003	SF		Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat.....	1.74	
			<i>For Up To 100, Add</i>	1.01	
			<i>For &gt;100 To 250, Add</i>	0.48	
			<i>For &gt;250 To 500, Add</i>	0.21	
<b>09 96 53 Elastomeric Coatings</b> <small>(09 96)</small>					
<b>09 96 53 00-0001 Elastomeric Painting</b> <small>(09 96 53)</small>					
			Note: Per coat.		





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
High-Performance Coatings	09 96	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0002 SF 1 Coat, 5.3 To 8 Wet Mills, Brush Work, Elastomeric Primer Applied To Walls And Floors .....	1.00	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.45	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.64	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 96 53 00-0003 SF 1 Coat, 5.3 To 8 Wet Mills, Brush/Roller Work, Elastomeric Primer Applied To Walls And Floors .....	0.85	
For Work >15' To 20' Above Floor, Add	0.10	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.17	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.27	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.37	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.54	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 96 53 00-0004 SF 1 Coat, 5.3 To 8 Wet Mills, Sprayed, Elastomeric Primer Applied To Walls And Floors .....	0.69	
For Work >15' To 20' Above Floor, Add	0.07	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.12	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.18	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.25	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
09 96 53 00-0005 SF 1 Coat, 13 To 16 Wet Mills, Brush Work, Elastomeric Paint Applied To Walls And Floors .....	2.08	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.24	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.38	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.52	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.88	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.42	
09 96 53 00-0006 SF 1 Coat, 13 To 16 Wet Mills, Brush/Roller Work, Elastomeric Paint Applied To Walls And Floors .....	1.92	
For Work >15' To 20' Above Floor, Add	0.12	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.20	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.32	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.43	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.29	
For >20,000, Deduct	-0.38	

**09 Finishes**  
**09 90 Painting and Coating**  
**09 96 High-Performance Coatings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0007	SF		1 Coat, 13 To 16 Wet Mills, Sprayed, Elastomeric Paint Applied To Walls And Floors .....	2.07	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.63	
			<i>For &gt;100 To 250, Add</i>	0.34	
			<i>For &gt;250 To 500, Add</i>	0.16	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.10	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.21	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.31	
			<i>For &gt;20,000, Deduct</i>	-0.41	
09 96 53 00-0008	SF		1 Coat, 5.3 To 8 Wet Mills, Brush Work, Elastomeric Primer Applied To Ceilings And Overhead.....	1.13	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.24	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.38	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.52	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.73	
			<i>For &gt;100 To 250, Add</i>	0.35	
			<i>For &gt;250 To 500, Add</i>	0.15	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.17	
			<i>For &gt;20,000, Deduct</i>	-0.23	
09 96 53 00-0009	SF		1 Coat, 5.3 To 8 Wet Mills, Brush/Roller Work, Elastomeric Primer Applied To Ceilings And Overhead .....	0.96	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.12	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.20	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.32	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.43	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.62	
			<i>For &gt;100 To 250, Add</i>	0.29	
			<i>For &gt;250 To 500, Add</i>	0.13	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.05	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.10	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.14	
			<i>For &gt;20,000, Deduct</i>	-0.19	
09 96 53 00-0010	SF		1 Coat, 5.3 To 8 Wet Mills, Sprayed, Elastomeric Primer Applied To Ceilings And Overhead .....	0.77	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.08	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.22	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.30	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.44	
			<i>For &gt;100 To 250, Add</i>	0.21	
			<i>For &gt;250 To 500, Add</i>	0.09	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.04	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.12	
			<i>For &gt;20,000, Deduct</i>	-0.15	
09 96 53 00-0011	SF		1 Coat, 13 To 16 Wet Mills, Brush Work, Elastomeric Paint Applied To Ceilings And Overhead .....	2.23	
			<i>For Work &gt;15' To 20' Above Floor, Add</i>	0.17	
			<i>Note: Applied only to work area above 15' to 20'.</i>		
			<i>For Work &gt;20' To 30' Above Floor, Add</i>	0.28	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Work &gt;30' To 40' Above Floor, Add</i>	0.44	
			<i>Note: Applied only to work area above 30' to 40'.</i>		
			<i>For Work &gt;40' Above Floor, Add</i>	0.61	
			<i>Note: Applied only to work area above 40'.</i>		
			<i>For Up To 100, Add</i>	0.99	
			<i>For &gt;100 To 250, Add</i>	0.50	
			<i>For &gt;250 To 500, Add</i>	0.22	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-0.11	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.22	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.33	
			<i>For &gt;20,000, Deduct</i>	-0.45	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
High-Performance Coatings	09 96	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 53 00-0012 SF 1 Coat, 13 To 16 Wet Mills, Brush/Roller Work, Elastomeric Paint Applied To Ceilings And Overhead.....	2.05	
For Work >15' To 20' Above Floor, Add	0.14	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.23	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.37	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.51	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.86	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.10	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.31	
For >20,000, Deduct	-0.41	
09 96 53 00-0013 SF 1 Coat, 13 To 16 Wet Mills, Sprayed, Elastomeric Paint Applied To Ceilings And Overhead .....	2.16	
For Work >15' To 20' Above Floor, Add	0.09	
Note: Applied only to work area above 15' to 20'.		
For Work >20' To 30' Above Floor, Add	0.16	
Note: Applied only to work area above 20'.		
For Work >30' To 40' Above Floor, Add	0.25	
Note: Applied only to work area above 30' to 40'.		
For Work >40' Above Floor, Add	0.35	
Note: Applied only to work area above 40'.		
For Up To 100, Add	0.70	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.43	
<b>09 96 56 Epoxy Coatings (09 96)</b>		
09 96 56 00-0001 High Build Epoxy (09 96 56)		
09 96 56 00-0002 SF 50 Mil, High Build Epoxy .....	4.00	
09 96 56 00-0003 Laminated Epoxy With Fiberglass (09 96 56)		
09 96 56 00-0004 SF Laminated Epoxy With Fiberglass .....	6.68	
<b>09 96 66 Aggregate Wall Coatings (09 96)</b>		
09 96 66 00-0001 Troweled On (09 96 66)		
09 96 66 00-0002 SF Exposed Aggregate - 1/16" To 1/4" - Troweled On.....	4.65	
09 96 66 00-0003 SF Exposed Aggregate - 1/2" To 5/8" Troweled On .....	8.36	
09 96 66 00-0004 SF Exposed Aggregate - 1" Troweled On .....	12.42	
09 96 66 00-0005 Sprayed On (09 96 66)		
09 96 66 00-0006 SF Exposed Aggregate - 1/8" - Sprayed On.....	3.78	
<b>09 97 Special Coatings (09 90)</b>		
<b>09 97 13 Steel Coatings (09 97)</b>		
<b>09 97 13 23 Exterior Steel Coatings (09 97 13)</b>		
Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.		
09 97 13 23-0001 Surface Preparation For Structural Steel (09 97 13 23)		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0002 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel (09 97 13 23-0001)		
Note: A Brush-Off Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust and loose paint. Tightly adherent mill scale, rust and paint may remain on the surface. Mill scale, rust and coating are considered adherent if they cannot be removed by lifting with a dull putty knife after abrasive blast cleaning has been performed. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP11		
09 97 13 23-0003 SF Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	1.11	
For Up To 100, Add	0.78	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
09 97 13 23-0004 SF Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.98	
For Up To 100, Add	0.69	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	

**09 Finishes**

**09 90 Painting and Coating**

**09 97 Special Coatings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0005	SF		Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation.....	0.97	
			<i>For Up To 100, Add</i>	0.69	
			<i>For &gt;100 To 250, Add</i>	0.32	
			<i>For &gt;250 To 500, Add</i>	0.14	
09 97 13 23-0006	SF		Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation.....	1.39	
			<i>For Up To 100, Add</i>	0.98	
			<i>For &gt;100 To 250, Add</i>	0.46	
			<i>For &gt;250 To 500, Add</i>	0.20	
<b>09 97 13 23-0007</b>			<b>SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel</b> <small>(09 97 13 23-0001)</small>		
			Note: A Commercial Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 33% of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP6/NACE 3 or ISO 8501-1 Sa 2.		
09 97 13 23-0008	SF		Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.87	
			<i>For Up To 100, Add</i>	2.05	
			<i>For &gt;100 To 250, Add</i>	0.96	
			<i>For &gt;250 To 500, Add</i>	0.41	
09 97 13 23-0009	SF		Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.48	
			<i>For Up To 100, Add</i>	1.76	
			<i>For &gt;100 To 250, Add</i>	0.83	
			<i>For &gt;250 To 500, Add</i>	0.36	
09 97 13 23-0010	SF		Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation.....	2.31	
			<i>For Up To 100, Add</i>	1.64	
			<i>For &gt;100 To 250, Add</i>	0.77	
			<i>For &gt;250 To 500, Add</i>	0.33	
09 97 13 23-0011	SF		Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation.....	3.59	
			<i>For Up To 100, Add</i>	2.59	
			<i>For &gt;100 To 250, Add</i>	1.21	
			<i>For &gt;250 To 500, Add</i>	0.52	
<b>09 97 13 23-0012</b>			<b>SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel</b> <small>(09 97 13 23-0001)</small>		
			Note: A White Metal Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete Instructions, refer to Joint Surface Preparation Standard SSPC-SP5/NACE 1 or ISO 8501-1 Sa 3.		
09 97 13 23-0013	SF		Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	5.57	
			<i>For Up To 100, Add</i>	4.00	
			<i>For &gt;100 To 250, Add</i>	1.88	
			<i>For &gt;250 To 500, Add</i>	0.81	
09 97 13 23-0014	SF		Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.76	
			<i>For Up To 100, Add</i>	3.41	
			<i>For &gt;100 To 250, Add</i>	1.60	
			<i>For &gt;250 To 500, Add</i>	0.69	
09 97 13 23-0015	SF		Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation.....	4.38	
			<i>For Up To 100, Add</i>	3.12	
			<i>For &gt;100 To 250, Add</i>	1.47	
			<i>For &gt;250 To 500, Add</i>	0.63	
09 97 13 23-0016	SF		Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation.....	6.74	
			<i>For Up To 100, Add</i>	4.88	
			<i>For &gt;100 To 250, Add</i>	2.29	
			<i>For &gt;250 To 500, Add</i>	0.98	
<b>09 97 13 23-0017</b>			<b>SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel</b> <small>(09 97 13 23-0001)</small>		
			Note: A Near-White Blast Cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, dust, mill scale, rust, paint, oxides, corrosion products and other foreign matter, except for staining. Staining shall be limited to no more than 5 percent of each square inch of surface area and may consist of light shadows, slight streaks or minor discoloration caused by stains of rust, stains of mill scale or stains of previously applied paint. Before blast cleaning, visible deposits of oil or grease shall be removed by any of the methods specified in SSPC-SP1 or other agreed upon methods. For complete instructions, refer to Joint Surface Preparation Standard SSPC-SP10/NACE 2 or ISO 8501-1 Sa 2.5.		
09 97 13 23-0018	SF		Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.15	
			<i>For Up To 100, Add</i>	2.97	
			<i>For &gt;100 To 250, Add</i>	1.39	
			<i>For &gt;250 To 500, Add</i>	0.60	
09 97 13 23-0019	SF		Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.54	
			<i>For Up To 100, Add</i>	2.53	
			<i>For &gt;100 To 250, Add</i>	1.19	
			<i>For &gt;250 To 500, Add</i>	0.51	
09 97 13 23-0020	SF		Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.34	
			<i>For Up To 100, Add</i>	2.38	
			<i>For &gt;100 To 250, Add</i>	1.12	
			<i>For &gt;250 To 500, Add</i>	0.48	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0021 SF Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.90	
For Up To 100, Add	3.55	
For >100 To 250, Add	1.66	
For >250 To 500, Add	0.71	
<b>09 97 13 23-0022 Protective Coatings For Tanks And Structural Steel</b> (09 97 13 23)		
Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
<b>09 97 13 23-0023 1.5 Mil Prime Coat For Structural Steel</b> (09 97 13 23-0022)		
09 97 13 23-0024 SF Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.18	
For Up To 100, Add	0.77	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 23-0025 SF Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.87	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.11	
09 97 13 23-0026 SF Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.78	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 97 13 23-0027 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.40	
For Up To 100, Add	0.94	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 23-0028 SF Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.64	
For Up To 100, Add	1.11	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
09 97 13 23-0029 SF Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	1.21	
For Up To 100, Add	0.81	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
09 97 13 23-0030 SF Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	1.08	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 23-0031 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.97	
For Up To 100, Add	1.36	
For >100 To 250, Add	0.64	
For >250 To 500, Add	0.28	
<b>09 97 13 23-0032 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel</b> (09 97 13 23-0022)		
09 97 13 23-0033 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.46	
For Up To 100, Add	2.23	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.46	
09 97 13 23-0034 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.52	
For Up To 100, Add	1.55	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
09 97 13 23-0035 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.34	
For Up To 100, Add	1.42	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.30	
09 97 13 23-0036 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	4.20	
For Up To 100, Add	2.77	
For >100 To 250, Add	1.31	
For >250 To 500, Add	0.57	
09 97 13 23-0037 SF Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.59	
For Up To 100, Add	1.67	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.34	
09 97 13 23-0038 SF Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.89	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 23-0039 SF Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.75	
For Up To 100, Add	1.06	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.22	
09 97 13 23-0040 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	3.15	
For Up To 100, Add	2.07	
For >100 To 250, Add	0.98	
For >250 To 500, Add	0.42	
09 97 13 23-0041 SF Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	5.21	
For Up To 100, Add	3.54	
For >100 To 250, Add	1.67	
For >250 To 500, Add	0.72	

**09 Finishes**

**09 90 Painting and Coating**

**09 97 Special Coatings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0042	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	3.72	
			<i>For Up To 100, Add</i>	2.45	
			<i>For &gt;100 To 250, Add</i>	1.16	
			<i>For &gt;250 To 500, Add</i>	0.50	
09 97 13 23-0043	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	3.44	
			<i>For Up To 100, Add</i>	2.24	
			<i>For &gt;100 To 250, Add</i>	1.06	
			<i>For &gt;250 To 500, Add</i>	0.46	
09 97 13 23-0044	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	6.38	
			<i>For Up To 100, Add</i>	4.40	
			<i>For &gt;100 To 250, Add</i>	2.07	
			<i>For &gt;250 To 500, Add</i>	0.89	
09 97 13 23-0045	SF		Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	3.91	
			<i>For Up To 100, Add</i>	2.66	
			<i>For &gt;100 To 250, Add</i>	1.25	
			<i>For &gt;250 To 500, Add</i>	0.54	
09 97 13 23-0046	SF		Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	2.79	
			<i>For Up To 100, Add</i>	1.84	
			<i>For &gt;100 To 250, Add</i>	0.87	
			<i>For &gt;250 To 500, Add</i>	0.38	
09 97 13 23-0047	SF		Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	2.57	
			<i>For Up To 100, Add</i>	1.68	
			<i>For &gt;100 To 250, Add</i>	0.79	
			<i>For &gt;250 To 500, Add</i>	0.34	
09 97 13 23-0048	SF		Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	4.78	
			<i>For Up To 100, Add</i>	3.30	
			<i>For &gt;100 To 250, Add</i>	1.55	
			<i>For &gt;250 To 500, Add</i>	0.67	
<b>09 97 13 23-0049</b>			<b>Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel</b> <small>(09 97 13 23-0022)</small>		
09 97 13 23-0050	SF		Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	2.67	
			<i>For Up To 100, Add</i>	1.73	
			<i>For &gt;100 To 250, Add</i>	0.82	
			<i>For &gt;250 To 500, Add</i>	0.36	
09 97 13 23-0051	SF		Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	2.18	
			<i>For Up To 100, Add</i>	1.40	
			<i>For &gt;100 To 250, Add</i>	0.66	
			<i>For &gt;250 To 500, Add</i>	0.29	
09 97 13 23-0052	SF		Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	2.00	
			<i>For Up To 100, Add</i>	1.26	
			<i>For &gt;100 To 250, Add</i>	0.60	
			<i>For &gt;250 To 500, Add</i>	0.26	
09 97 13 23-0053	SF		Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	3.31	
			<i>For Up To 100, Add</i>	2.21	
			<i>For &gt;100 To 250, Add</i>	1.04	
			<i>For &gt;250 To 500, Add</i>	0.45	
09 97 13 23-0054	SF		Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	1.70	
			<i>For Up To 100, Add</i>	1.11	
			<i>For &gt;100 To 250, Add</i>	0.53	
			<i>For &gt;250 To 500, Add</i>	0.23	
09 97 13 23-0055	SF		Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	1.40	
			<i>For Up To 100, Add</i>	0.89	
			<i>For &gt;100 To 250, Add</i>	0.43	
			<i>For &gt;250 To 500, Add</i>	0.18	
09 97 13 23-0056	SF		Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	1.28	
			<i>For Up To 100, Add</i>	0.80	
			<i>For &gt;100 To 250, Add</i>	0.38	
			<i>For &gt;250 To 500, Add</i>	0.17	
09 97 13 23-0057	SF		Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	2.11	
			<i>For Up To 100, Add</i>	1.41	
			<i>For &gt;100 To 250, Add</i>	0.67	
			<i>For &gt;250 To 500, Add</i>	0.29	
09 97 13 23-0058	SF		Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	3.73	
			<i>For Up To 100, Add</i>	2.53	
			<i>For &gt;100 To 250, Add</i>	1.19	
			<i>For &gt;250 To 500, Add</i>	0.51	
09 97 13 23-0059	SF		Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	3.02	
			<i>For Up To 100, Add</i>	2.03	
			<i>For &gt;100 To 250, Add</i>	0.96	
			<i>For &gt;250 To 500, Add</i>	0.41	
09 97 13 23-0060	SF		Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	2.75	
			<i>For Up To 100, Add</i>	1.82	
			<i>For &gt;100 To 250, Add</i>	0.86	
			<i>For &gt;250 To 500, Add</i>	0.37	
09 97 13 23-0061	SF		Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	4.65	
			<i>For Up To 100, Add</i>	3.21	
			<i>For &gt;100 To 250, Add</i>	1.51	
			<i>For &gt;250 To 500, Add</i>	0.65	
09 97 13 23-0062	SF		Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	2.37	
			<i>For Up To 100, Add</i>	1.61	
			<i>For &gt;100 To 250, Add</i>	0.76	
			<i>For &gt;250 To 500, Add</i>	0.33	



		<b>Finishes</b>	<b>09</b>
		Painting and Coating	09 90
		Special Coatings	09 97

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97	13 23-0063	SF	Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.94	
			<i>For Up To 100, Add</i>	1.30	
			<i>For &gt;100 To 250, Add</i>	0.61	
			<i>For &gt;250 To 500, Add</i>	0.27	
09 97	13 23-0064	SF	Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.77	
			<i>For Up To 100, Add</i>	1.17	
			<i>For &gt;100 To 250, Add</i>	0.55	
			<i>For &gt;250 To 500, Add</i>	0.24	
09 97	13 23-0065	SF	Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	2.98	
			<i>For Up To 100, Add</i>	2.06	
			<i>For &gt;100 To 250, Add</i>	0.97	
			<i>For &gt;250 To 500, Add</i>	0.42	
<b>09 97 13 23-0066 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel</b>					
			<small>(09 97 13 23-0022)</small>		
09 97	13 23-0067	SF	Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	4.44	
			<i>For Up To 100, Add</i>	2.59	
			<i>For &gt;100 To 250, Add</i>	1.24	
			<i>For &gt;250 To 500, Add</i>	0.54	
09 97	13 23-0068	SF	Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	3.26	
			<i>For Up To 100, Add</i>	1.77	
			<i>For &gt;100 To 250, Add</i>	0.86	
			<i>For &gt;250 To 500, Add</i>	0.38	
09 97	13 23-0069	SF	Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	2.91	
			<i>For Up To 100, Add</i>	1.50	
			<i>For &gt;100 To 250, Add</i>	0.74	
			<i>For &gt;250 To 500, Add</i>	0.32	
09 97	13 23-0070	SF	Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	5.01	
			<i>For Up To 100, Add</i>	2.99	
			<i>For &gt;100 To 250, Add</i>	1.43	
			<i>For &gt;250 To 500, Add</i>	0.62	
09 97	13 23-0071	SF	Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	3.12	
			<i>For Up To 100, Add</i>	1.82	
			<i>For &gt;100 To 250, Add</i>	0.87	
			<i>For &gt;250 To 500, Add</i>	0.38	
09 97	13 23-0072	SF	Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	2.28	
			<i>For Up To 100, Add</i>	1.24	
			<i>For &gt;100 To 250, Add</i>	0.60	
			<i>For &gt;250 To 500, Add</i>	0.26	
09 97	13 23-0073	SF	Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	2.03	
			<i>For Up To 100, Add</i>	1.05	
			<i>For &gt;100 To 250, Add</i>	0.51	
			<i>For &gt;250 To 500, Add</i>	0.23	
09 97	13 23-0074	SF	Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	3.52	
			<i>For Up To 100, Add</i>	2.10	
			<i>For &gt;100 To 250, Add</i>	1.01	
			<i>For &gt;250 To 500, Add</i>	0.44	
<b>09 97 13 23-0075 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel</b>					
			<small>(09 97 13 23-0022)</small>		
09 97	13 23-0076	SF	Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	4.79	
			<i>For Up To 100, Add</i>	2.64	
			<i>For &gt;100 To 250, Add</i>	1.28	
			<i>For &gt;250 To 500, Add</i>	0.56	
09 97	13 23-0077	SF	Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	3.57	
			<i>For Up To 100, Add</i>	1.81	
			<i>For &gt;100 To 250, Add</i>	0.89	
			<i>For &gt;250 To 500, Add</i>	0.39	
09 97	13 23-0078	SF	Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	3.22	
			<i>For Up To 100, Add</i>	1.55	
			<i>For &gt;100 To 250, Add</i>	0.77	
			<i>For &gt;250 To 500, Add</i>	0.34	
09 97	13 23-0079	SF	Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	5.37	
			<i>For Up To 100, Add</i>	3.04	
			<i>For &gt;100 To 250, Add</i>	1.47	
			<i>For &gt;250 To 500, Add</i>	0.64	
09 97	13 23-0080	SF	Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	3.93	
			<i>For Up To 100, Add</i>	2.17	
			<i>For &gt;100 To 250, Add</i>	1.05	
			<i>For &gt;250 To 500, Add</i>	0.46	
09 97	13 23-0081	SF	Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.93	
			<i>For Up To 100, Add</i>	1.49	
			<i>For &gt;100 To 250, Add</i>	0.73	
			<i>For &gt;250 To 500, Add</i>	0.32	
09 97	13 23-0082	SF	Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.64	
			<i>For Up To 100, Add</i>	1.27	
			<i>For &gt;100 To 250, Add</i>	0.63	
			<i>For &gt;250 To 500, Add</i>	0.28	
09 97	13 23-0083	SF	Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats .....	4.41	
			<i>For Up To 100, Add</i>	2.50	
			<i>For &gt;100 To 250, Add</i>	1.21	
			<i>For &gt;250 To 500, Add</i>	0.53	

**09 Finishes**

**09 90 Painting and Coating**

**09 97 Special Coatings**



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
09 97 13 23-0084		<b>1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel</b> <small>(09 97 13 23-0022)</small>		
09 97 13 23-0085	SF	Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	9.99	
		<i>For Up To 100, Add</i>	5.66	
		<i>For &gt;100 To 250, Add</i>	2.73	
		<i>For &gt;250 To 500, Add</i>	1.19	
09 97 13 23-0086	SF	Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	7.63	
		<i>For Up To 100, Add</i>	4.08	
		<i>For &gt;100 To 250, Add</i>	1.99	
		<i>For &gt;250 To 500, Add</i>	0.87	
09 97 13 23-0087	SF	Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	7.36	
		<i>For Up To 100, Add</i>	3.88	
		<i>For &gt;100 To 250, Add</i>	1.89	
		<i>For &gt;250 To 500, Add</i>	0.83	
09 97 13 23-0088	SF	Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats .....	11.56	
		<i>For Up To 100, Add</i>	6.80	
		<i>For &gt;100 To 250, Add</i>	3.27	
		<i>For &gt;250 To 500, Add</i>	1.42	
09 97 13 23-0089		<b>1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel</b> <small>(09 97 13 23-0022)</small>		
09 97 13 23-0090	SF	Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	5.31	
		<i>For Up To 100, Add</i>	2.77	
		<i>For &gt;100 To 250, Add</i>	1.35	
		<i>For &gt;250 To 500, Add</i>	0.59	
09 97 13 23-0091	SF	Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.22	
		<i>For Up To 100, Add</i>	1.97	
		<i>For &gt;100 To 250, Add</i>	0.98	
		<i>For &gt;250 To 500, Add</i>	0.43	
09 97 13 23-0092	SF	Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.05	
		<i>For Up To 100, Add</i>	1.84	
		<i>For &gt;100 To 250, Add</i>	0.92	
		<i>For &gt;250 To 500, Add</i>	0.41	
09 97 13 23-0093	SF	Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats .....	5.99	
		<i>For Up To 100, Add</i>	3.24	
		<i>For &gt;100 To 250, Add</i>	1.58	
		<i>For &gt;250 To 500, Add</i>	0.69	
09 97 13 23-0094	SF	Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	4.19	
		<i>For Up To 100, Add</i>	2.19	
		<i>For &gt;100 To 250, Add</i>	1.07	
		<i>For &gt;250 To 500, Add</i>	0.47	
09 97 13 23-0095	SF	Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.34	
		<i>For Up To 100, Add</i>	1.56	
		<i>For &gt;100 To 250, Add</i>	0.77	
		<i>For &gt;250 To 500, Add</i>	0.34	
09 97 13 23-0096	SF	Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.19	
		<i>For Up To 100, Add</i>	1.44	
		<i>For &gt;100 To 250, Add</i>	0.72	
		<i>For &gt;250 To 500, Add</i>	0.32	
09 97 13 23-0097	SF	Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	4.74	
		<i>For Up To 100, Add</i>	2.57	
		<i>For &gt;100 To 250, Add</i>	1.25	
		<i>For &gt;250 To 500, Add</i>	0.55	
09 97 13 23-0098		<b>Two 8 Mil Coal Tar Epoxy Coats For Structural Steel</b> <small>(09 97 13 23-0022)</small>		
09 97 13 23-0099	SF	Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	4.43	
		<i>For Up To 100, Add</i>	2.64	
		<i>For &gt;100 To 250, Add</i>	1.27	
		<i>For &gt;250 To 500, Add</i>	0.55	
09 97 13 23-0100	SF	Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.62	
		<i>For Up To 100, Add</i>	2.09	
		<i>For &gt;100 To 250, Add</i>	1.01	
		<i>For &gt;250 To 500, Add</i>	0.44	
09 97 13 23-0101	SF	Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.35	
		<i>For Up To 100, Add</i>	1.89	
		<i>For &gt;100 To 250, Add</i>	0.91	
		<i>For &gt;250 To 500, Add</i>	0.40	
09 97 13 23-0102	SF	Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats.....	5.44	
		<i>For Up To 100, Add</i>	3.37	
		<i>For &gt;100 To 250, Add</i>	1.61	
		<i>For &gt;250 To 500, Add</i>	0.70	
09 97 13 23-0103		<b>One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel</b> <small>(09 97 13 23-0022)</small>		
09 97 13 23-0104	SF	Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	4.25	
		<i>For Up To 100, Add</i>	2.67	
		<i>For &gt;100 To 250, Add</i>	1.27	
		<i>For &gt;250 To 500, Add</i>	0.55	





<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0105 SF Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	3.04	
For Up To 100, Add	1.79	
For >100 To 250, Add	0.86	
For >250 To 500, Add	0.37	
09 97 13 23-0106 SF Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	2.60	
For Up To 100, Add	1.46	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.31	
09 97 13 23-0107 SF Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat .....	4.84	
For Up To 100, Add	3.07	
For >100 To 250, Add	1.46	
For >250 To 500, Add	0.63	
<b>09 97 13 23-0108 One 3 Mil High Zinc Silicate Coat For Structural Steel</b> (09 97 13 23-0022)		
09 97 13 23-0109 SF Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat .....	2.32	
For Up To 100, Add	1.20	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
09 97 13 23-0110 SF Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat .....	1.71	
For Up To 100, Add	0.79	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 97 13 23-0111 SF Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat .....	1.62	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 23-0112 SF Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat .....	2.45	
For Up To 100, Add	1.27	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
<b>09 97 13 23-0113 Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel</b> (09 97 13 23-0022)		
Note: Installed over existing primer.		
09 97 13 23-0114 SF Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats .....	3.55	
For Up To 100, Add	2.03	
For >100 To 250, Add	0.98	
For >250 To 500, Add	0.43	
09 97 13 23-0115 SF Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats .....	2.92	
For Up To 100, Add	1.61	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.34	
09 97 13 23-0116 SF Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats .....	2.56	
For Up To 100, Add	1.34	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
09 97 13 23-0117 SF Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats.....	4.11	
For Up To 100, Add	2.43	
For >100 To 250, Add	1.17	
For >250 To 500, Add	0.51	
<b>09 97 13 24 Steel Water Storage Tank Painting</b> (09 97 13)		
09 97 13 24-0001 Surface Preparation For Tanks (09 97 13 24)		
Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002 SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0003 SF Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.67	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
09 97 13 24-0004 SF Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	1.48	
For Up To 100, Add	1.11	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.22	
09 97 13 24-0005 SF Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation.....	2.10	
For Up To 100, Add	1.58	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
09 97 13 24-0006 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0007 SF Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation .....	0.93	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	

**09 Finishes**

**09 90 Painting and Coating**

**09 97 Special Coatings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0008	SF		Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation .....	0.76	
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
09 97 13 24-0009	SF		Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation .....	1.33	
			For Up To 100, Add	0.96	
			For >100 To 250, Add	0.45	
			For >250 To 500, Add	0.19	
<b>09 97 13 24-0010</b>			<b>SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks</b> (09 97 13 24-0001)		
09 97 13 24-0011	SF		Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation.....	2.31	
			For Up To 100, Add	1.64	
			For >100 To 250, Add	0.77	
			For >250 To 500, Add	0.33	
09 97 13 24-0012	SF		Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation .....	2.12	
			For Up To 100, Add	1.49	
			For >100 To 250, Add	0.70	
			For >250 To 500, Add	0.30	
09 97 13 24-0013	SF		Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation .....	3.09	
			For Up To 100, Add	2.22	
			For >100 To 250, Add	1.04	
			For >250 To 500, Add	0.45	
<b>09 97 13 24-0014</b>			<b>SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks</b> (09 97 13 24-0001)		
09 97 13 24-0015	SF		Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation.....	4.17	
			For Up To 100, Add	2.97	
			For >100 To 250, Add	1.39	
			For >250 To 500, Add	0.60	
09 97 13 24-0016	SF		Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation .....	3.97	
			For Up To 100, Add	2.82	
			For >100 To 250, Add	1.32	
			For >250 To 500, Add	0.57	
09 97 13 24-0017	SF		Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation.....	5.83	
			For Up To 100, Add	4.22	
			For >100 To 250, Add	1.98	
			For >250 To 500, Add	0.85	
<b>09 97 13 24-0018</b>			<b>SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks</b> (09 97 13 24-0001)		
09 97 13 24-0019	SF		Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation .....	3.33	
			For Up To 100, Add	2.38	
			For >100 To 250, Add	1.12	
			For >250 To 500, Add	0.48	
09 97 13 24-0020	SF		Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation .....	3.33	
			For Up To 100, Add	2.38	
			For >100 To 250, Add	1.12	
			For >250 To 500, Add	0.48	
09 97 13 24-0021	SF		Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation.....	4.89	
			For Up To 100, Add	3.55	
			For >100 To 250, Add	1.66	
			For >250 To 500, Add	0.71	
<b>09 97 13 24-0022</b>			<b>Protective Coatings For Tanks</b> (09 97 13 24) Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
<b>09 97 13 24-0023</b>			<b>1.5 Mil Prime Coat For Tanks</b> (09 97 13 24-0022)		
09 97 13 24-0024	SF		Spray Small Vessel/Tank 1.5 Mil Prime Coat .....	0.70	
			For Up To 100, Add	0.43	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
09 97 13 24-0025	SF		Spray Large Vessel/Tank 1.5 Mil Prime Coat .....	0.57	
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
09 97 13 24-0026	SF		Spray Tank Interior 1.5 Mil Prime Coat .....	1.32	
			For Up To 100, Add	0.89	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
09 97 13 24-0027	SF		Brush Small Vessel/Tank 1.5 Mil Prime Coat .....	0.94	
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
09 97 13 24-0028	SF		Brush Large Vessel/Tank 1.5 Mil Prime Coat .....	0.76	
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0029 SF Brush Tank Interior 1.5 Mil Prime Coat.....	1.86	
For Up To 100, Add	1.30	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.26	
<b>09 97 13 24-0030 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0031 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.05	
For Up To 100, Add	1.21	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.25	
09 97 13 24-0032 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	1.61	
For Up To 100, Add	0.88	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
09 97 13 24-0033 SF Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	3.74	
For Up To 100, Add	2.48	
For >100 To 250, Add	1.17	
For >250 To 500, Add	0.51	
09 97 13 24-0034 SF Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.55	
For Up To 100, Add	0.92	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 24-0035 SF Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	1.21	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
09 97 13 24-0036 SF Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	2.81	
For Up To 100, Add	1.86	
For >100 To 250, Add	0.88	
For >250 To 500, Add	0.38	
09 97 13 24-0037 SF Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.98	
For Up To 100, Add	1.91	
For >100 To 250, Add	0.91	
For >250 To 500, Add	0.39	
09 97 13 24-0038 SF Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	2.26	
For Up To 100, Add	1.37	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.29	
09 97 13 24-0039 SF Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats .....	5.71	
For Up To 100, Add	3.96	
For >100 To 250, Add	1.86	
For >250 To 500, Add	0.80	
09 97 13 24-0040 SF Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.24	
For Up To 100, Add	1.43	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.30	
09 97 13 24-0041 SF Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	1.70	
For Up To 100, Add	1.03	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
09 97 13 24-0042 SF Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats .....	4.28	
For Up To 100, Add	2.96	
For >100 To 250, Add	1.40	
For >250 To 500, Add	0.60	
<b>09 97 13 24-0043 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0044 SF Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.81	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 24-0045 SF Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	1.55	
For Up To 100, Add	0.93	
For >100 To 250, Add	0.45	
For >250 To 500, Add	0.19	
09 97 13 24-0046 SF Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	3.86	
For Up To 100, Add	2.66	
For >100 To 250, Add	1.25	
For >250 To 500, Add	0.54	
09 97 13 24-0047 SF Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.16	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 24-0048 SF Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat .....	0.98	
For Up To 100, Add	0.59	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
09 97 13 24-0049 SF Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats .....	2.46	
For Up To 100, Add	1.70	
For >100 To 250, Add	0.80	
For >250 To 500, Add	0.34	

**09 Finishes**

**09 90 Painting and Coating**

**09 97 Special Coatings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0050	SF		Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.48	
			<i>For Up To 100, Add</i>	1.63	
			<i>For &gt;100 To 250, Add</i>	0.77	
			<i>For &gt;250 To 500, Add</i>	0.33	
09 97 13 24-0051	SF		Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	2.09	
			<i>For Up To 100, Add</i>	1.33	
			<i>For &gt;100 To 250, Add</i>	0.63	
			<i>For &gt;250 To 500, Add</i>	0.27	
09 97 13 24-0052	SF		Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....	5.85	
			<i>For Up To 100, Add</i>	4.24	
			<i>For &gt;100 To 250, Add</i>	1.99	
			<i>For &gt;250 To 500, Add</i>	0.85	
09 97 13 24-0053	SF		Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.59	
			<i>For Up To 100, Add</i>	1.04	
			<i>For &gt;100 To 250, Add</i>	0.49	
			<i>For &gt;250 To 500, Add</i>	0.21	
09 97 13 24-0054	SF		Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.34	
			<i>For Up To 100, Add</i>	0.86	
			<i>For &gt;100 To 250, Add</i>	0.41	
			<i>For &gt;250 To 500, Add</i>	0.18	
09 97 13 24-0055	SF		Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats .....	3.83	
			<i>For Up To 100, Add</i>	2.72	
			<i>For &gt;100 To 250, Add</i>	1.28	
			<i>For &gt;250 To 500, Add</i>	0.55	
<b>09 97 13 24-0056</b>			<b>2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks</b> <small>(09 97 13 24-0022)</small>		
09 97 13 24-0057	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	2.69	
			<i>For Up To 100, Add</i>	1.36	
			<i>For &gt;100 To 250, Add</i>	0.67	
			<i>For &gt;250 To 500, Add</i>	0.29	
09 97 13 24-0058	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats.....	2.33	
			<i>For Up To 100, Add</i>	1.09	
			<i>For &gt;100 To 250, Add</i>	0.54	
			<i>For &gt;250 To 500, Add</i>	0.24	
09 97 13 24-0059	SF		Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	1.88	
			<i>For Up To 100, Add</i>	0.95	
			<i>For &gt;100 To 250, Add</i>	0.47	
			<i>For &gt;250 To 500, Add</i>	0.21	
09 97 13 24-0060	SF		Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....	1.63	
			<i>For Up To 100, Add</i>	0.77	
			<i>For &gt;100 To 250, Add</i>	0.38	
			<i>For &gt;250 To 500, Add</i>	0.17	
<b>09 97 13 24-0061</b>			<b>2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks</b> <small>(09 97 13 24-0022)</small>		
09 97 13 24-0062	SF		Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....	3.00	
			<i>For Up To 100, Add</i>	1.41	
			<i>For &gt;100 To 250, Add</i>	0.70	
			<i>For &gt;250 To 500, Add</i>	0.31	
09 97 13 24-0063	SF		Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats.....	2.64	
			<i>For Up To 100, Add</i>	1.14	
			<i>For &gt;100 To 250, Add</i>	0.57	
			<i>For &gt;250 To 500, Add</i>	0.26	
09 97 13 24-0064	SF		Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats .....	2.46	
			<i>For Up To 100, Add</i>	1.16	
			<i>For &gt;100 To 250, Add</i>	0.57	
			<i>For &gt;250 To 500, Add</i>	0.25	
09 97 13 24-0065	SF		Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats .....	2.17	
			<i>For Up To 100, Add</i>	0.94	
			<i>For &gt;100 To 250, Add</i>	0.47	
			<i>For &gt;250 To 500, Add</i>	0.21	
<b>09 97 13 24-0066</b>			<b>1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Tanks</b> <small>(09 97 13 24-0022)</small>		
09 97 13 24-0067	SF		Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats .....	7.11	
			<i>For Up To 100, Add</i>	3.74	
			<i>For &gt;100 To 250, Add</i>	1.82	
			<i>For &gt;250 To 500, Add</i>	0.80	
09 97 13 24-0068	SF		Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats .....	6.57	
			<i>For Up To 100, Add</i>	3.33	
			<i>For &gt;100 To 250, Add</i>	1.63	
			<i>For &gt;250 To 500, Add</i>	0.72	
09 97 13 24-0069	SF		Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats .....	10.66	
			<i>For Up To 100, Add</i>	6.40	
			<i>For &gt;100 To 250, Add</i>	3.07	
			<i>For &gt;250 To 500, Add</i>	1.33	
<b>09 97 13 24-0070</b>			<b>1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks</b> <small>(09 97 13 24-0022)</small>		



<b>Finishes</b>	<b>09</b>	<b>09</b>
Painting and Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0071 SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats .....	3.77	
For Up To 100, Add	1.76	
For >100 To 250, Add	0.87	
For >250 To 500, Add	0.39	
09 97 13 24-0072 SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats .....	3.38	
For Up To 100, Add	1.47	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.33	
09 97 13 24-0073 SF Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats .....	5.51	
For Up To 100, Add	3.06	
For >100 To 250, Add	1.48	
For >250 To 500, Add	0.65	
09 97 13 24-0074 SF Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats .....	2.97	
For Up To 100, Add	1.39	
For >100 To 250, Add	0.69	
For >250 To 500, Add	0.31	
09 97 13 24-0075 SF Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats .....	2.66	
For Up To 100, Add	1.16	
For >100 To 250, Add	0.58	
For >250 To 500, Add	0.26	
09 97 13 24-0076 SF Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats .....	4.35	
For Up To 100, Add	2.42	
For >100 To 250, Add	1.17	
For >250 To 500, Add	0.51	
<b>09 97 13 24-0077 Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0078 SF Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats .....	3.32	
For Up To 100, Add	1.88	
For >100 To 250, Add	0.91	
For >250 To 500, Add	0.40	
09 97 13 24-0079 SF Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats .....	2.79	
For Up To 100, Add	1.49	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.32	
09 97 13 24-0080 SF Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats .....	4.21	
For Up To 100, Add	2.55	
For >100 To 250, Add	1.22	
For >250 To 500, Add	0.53	
<b>09 97 13 24-0081 One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0082 SF Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat .....	2.30	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	
09 97 13 24-0083 SF Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat .....	2.12	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
09 97 13 24-0084 SF Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat .....	3.46	
For Up To 100, Add	2.12	
For >100 To 250, Add	1.01	
For >250 To 500, Add	0.44	
<b>09 97 13 24-0085 Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)</b>		
09 97 13 24-0086 SF Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats .....	5.05	
For Up To 100, Add	2.89	
For >100 To 250, Add	1.40	
For >250 To 500, Add	0.61	
09 97 13 24-0087 SF Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats .....	3.13	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.76	
For >250 To 500, Add	0.33	
<b>09 97 13 24-0088 One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)</b>		
09 97 13 24-0089 SF Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat .....	1.51	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.33	
For >250 To 500, Add	0.15	
09 97 13 24-0090 SF Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat .....	1.47	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.14	
09 97 13 24-0091 SF Spray Tank Interior One 3 Mil High Zinc Silicate Coat .....	2.31	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.27	

**09 Finishes****09 90 Painting and Coating****09 97 Special Coatings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks</b> <small>(09 97 13 24-0022)</small>		
Note: Installed over existing primer.		
09 97 13 24-0093 SF Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.43	
For Up To 100, Add	1.27	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.27	
09 97 13 24-0094 SF Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.16	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
09 97 13 24-0095 SF Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats.....	3.32	
For Up To 100, Add	1.94	
For >100 To 250, Add	0.93	
For >250 To 500, Add	0.41	
<b>09 97 13 24-0096 One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks</b> <small>(09 97 13 24-0022)</small>		
09 97 13 24-0097 SF Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	8.66	
For Up To 100, Add	5.36	
For >100 To 250, Add	2.56	
For >250 To 500, Add	1.11	
<b>09 97 26 Cementitious Coatings</b> <small>(09 97)</small>		
<b>09 97 26 13 Interior Cementitious Coatings</b> <small>(09 97 26)</small>		
09 97 26 13-0001 Ceramic-Like Glazed Coating <small>(09 97 26 13)</small>		
09 97 26 13-0002 Ceramic-Like Glazed Coating, Cementitious <small>(09 97 26 13-0001)</small>		
09 97 26 13-0003 SF Ceramic-like Glazed Coating, - Cementitious .....	3.34	
09 97 26 13-0004 Ceramic-Like Glazed Coating, Resin Base <small>(09 97 26 13-0001)</small>		
09 97 26 13-0005 SF Ceramic-like Glazed Coating - Resin.....	2.76	
<b>09 97 35 Dry Erase Coatings</b> <small>(09 97)</small>		
09 97 35 00-0001 Dry-Erase Paint <small>(09 97 35)</small>		
09 97 35 00-0002 Dry-Erase Paint (IdeaPaint™ PRO) <small>(09 97 35 00-0001)</small>		
09 97 35 00-0003 SF Dry-Erase Paint (IdeaPaint™ PRO), Applied With Roller .....	12.88	
Note: Includes two coats of primer and white, white sand, light beige or light gray surface.		
09 97 35 00-0004 Low VOC/Odorless, Dry-Erase Paint (IdeaPaint™ CREATE) <small>(09 97 35 00-0001)</small>		
09 97 35 00-0005 SF Clear, Low VOC/Odorless, Dry-Erase Paint (IdeaPaint™ CREATE), Applied With Roller.....	7.09	
Note: For application over existing latex-based top coats.		
09 97 35 00-0006 SF Black Or White, Low VOC/Odorless, Dry-Erase Paint (IdeaPaint™ CREATE), Applied With Roller .....	13.76	
Note: Includes two coats of primer and white or black surface coat.		
<b>09 97 63 Special Coatings and Protection Systems</b> <small>(09 97)</small>		
09 97 63 00-0001 Acrylic Glazed Coating <small>(09 97 63)</small>		
09 97 63 00-0002 SF Acrylic Glazed Coating.....	2.13	

**END OF SECTION 09**



<b>Special Construction</b>	<b>13</b>	<b>13</b>
<b>Integrated Construction</b>	<b>13 40</b>	
<b>Lightning Protection Systems</b>	<b>13 46</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 13 Special Construction

### 13 40 Integrated Construction <sup>(13)</sup>

#### 13 46 Lightning Protection Systems <sup>(13 40)</sup>

##### 13 46 13 Lightning Protection for Structures <sup>(13 46)</sup>

13 46 13 00-0001	Lightning Protection <sup>(13 46 13)</sup>		
13 46 13 00-0002	Air Terminals For Lightning Protection <sup>(13 46 13 00-0001)</sup>		
13 46 13 00-0003	Copper Lightning Protection Air Terminals <sup>(13 46 13 00-0002)</sup>		
13 46 13 00-0004	EA 3/8" x 10" Copper Lightning Protection Air Terminal.....	75.25	15.39
13 46 13 00-0005	EA 1/2" x 12" Copper Lightning Protection Air Terminal.....	94.00	15.39
13 46 13 00-0006	EA 5/8" x 12" Copper Lightning Protection Air Terminal.....	120.92	15.39
13 46 13 00-0007	EA 1/2" x 24" Copper Lightning Protection Air Terminal.....	134.63	15.39
13 46 13 00-0008	EA 1/2" x 60" Copper Lightning Protection Air Terminal.....	258.23	30.76

13 46 13 00-0009	Aluminum Lightning Protection Air Terminals <sup>(13 46 13 00-0002)</sup>		
13 46 13 00-0010	EA 3/8" x 10" Aluminum Lightning Protection Air Terminal.....	87.43	15.39
13 46 13 00-0011	EA 1/2" x 12" Aluminum Lightning Protection Air Terminal.....	111.65	15.39
13 46 13 00-0012	EA 5/8" x 12" Aluminum Lightning Protection Air Terminal.....	141.37	15.39
13 46 13 00-0013	EA 1/2" x 24" Aluminum Lightning Protection Air Terminal.....	157.21	15.39
13 46 13 00-0014	EA 1/2" x 60" Aluminum Lightning Protection Air Terminal.....	304.66	30.76

13 46 13 00-0015	Terminal Bases For Lightning Protection <sup>(13 46 13 00-0001)</sup>		
13 46 13 00-0016	Copper Lightning Protection Terminal Bases <sup>(13 46 13 00-0015)</sup>		
13 46 13 00-0017	EA Adhesive Base For Copper Lightning Protection Terminal.....	112.60	46.15
13 46 13 00-0018	EA Bolted Base For Copper Lightning Protection Terminal.....	153.80	61.53
13 46 13 00-0019	EA Hinged Base For Copper Lightning Protection Terminal.....	204.73	76.91
13 46 13 00-0020	EA Side Mounted Base For Copper Lightning Protection Terminal.....	153.80	61.53
13 46 13 00-0021	EA Offset Point Support For Copper Lightning Protection Terminal.....	162.17	61.53
13 46 13 00-0022	EA Concealed Base Assembly For Copper Lightning Protection Terminal.....	290.78	123.05
13 46 13 00-0023	EA 36" Tripod Base For 60" Copper Lightning Protection Terminal.....	202.54	76.91
13 46 13 00-0024	EA Intermediate Base For Copper Lightning Protection Terminal.....	112.60	46.15

13 46 13 00-0025	Aluminum Lightning Protection Terminal Bases <sup>(13 46 13 00-0015)</sup>		
13 46 13 00-0026	EA Adhesive Base For Aluminum Lightning Protection Terminal.....	116.23	46.15
13 46 13 00-0027	EA Bolted Base For Aluminum Lightning Protection Terminal.....	159.76	61.53
13 46 13 00-0028	EA Hinged Base For Aluminum Lightning Protection Terminal.....	214.28	76.91
13 46 13 00-0029	EA Side Mounted Base For Aluminum Lightning Protection Terminal.....	160.26	61.53
13 46 13 00-0030	EA Offset Point Support For Aluminum Lightning Protection Terminal.....	167.31	61.53
13 46 13 00-0031	EA Concealed Base Assembly For Aluminum Lightning Protection Terminal.....	304.03	123.05
13 46 13 00-0032	EA 36" Tripod Base For 60" Aluminum Lightning Protection Terminal.....	204.65	76.91
13 46 13 00-0033	EA Intermediate Base For Aluminum Lightning Protection Terminal.....	116.23	46.15

13 46 13 00-0034	Connectors <sup>(13 46 13 00-0001)</sup>		
13 46 13 00-0035	Copper Cable Connectors <sup>(13 46 13 00-0034)</sup>		
13 46 13 00-0036	EA Thru Wall Cable Connector For Copper Lightning Protection System.....	226.89	76.91
13 46 13 00-0037	EA Thru Roof Adapter Assembly For Copper Lightning Protection System.....	313.39	123.05
13 46 13 00-0038	EA Beam Connector For Copper Lightning Protection System.....	206.25	76.91
13 46 13 00-0039	EA Double Bolt Cable Connector For Copper Lightning Protection System.....	48.08	15.39
13 46 13 00-0040	EA Cable To Bar Connector For Copper Lightning Protection System.....	48.72	15.39
13 46 13 00-0041	EA Tee Connector For Copper Lightning Protection Terminal.....	149.14	46.15

13 46 13 00-0042	Aluminum Cable Connectors <sup>(13 46 13 00-0034)</sup>		
13 46 13 00-0043	EA Thru Wall Cable Connector For Aluminum Lightning Protection System.....	235.95	76.91
13 46 13 00-0044	EA Thru Roof Adapter Assembly For Aluminum Lightning Protection System.....	333.01	123.05
13 46 13 00-0045	EA Beam Connector For Aluminum Lightning Protection System.....	220.83	76.91
13 46 13 00-0046	EA Double Bolt Cable Connector For Aluminum Lightning Protection System.....	52.16	15.39
13 46 13 00-0047	EA Tee Connector For Aluminum Lightning Protection Terminal.....	154.35	46.15

13 46 13 00-0048	Bonding Plates <sup>(13 46 13 00-0001)</sup>		
13 46 13 00-0049	Copper Bonding Plates <sup>(13 46 13 00-0048)</sup>		
13 46 13 00-0050	EA 8" Square I Beam Bonding Plate For Copper Lightning Protection System.....	186.31	76.91
13 46 13 00-0051	EA 8" Square Purlin Bonding Plate For Copper Lightning Protection System.....	191.42	76.91
13 46 13 00-0052	EA 16" Square Bonding Plate For Copper Lightning Protection System.....	282.59	123.05

**13 Special Construction****13 40 Integrated Construction****13 46 Lightning Protection Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>13 46 13 00-0053 Aluminum Bonding Plates</b> <small>(13 46 13 00-0048)</small>		
13 46 13 00-0054 EA 8" Square I Beam Bonding Plate For Aluminum Lightning Protection System.....	188.08	76.91
13 46 13 00-0055 EA 8" Square Purlin Bonding Plate For Aluminum Lightning Protection System.....	196.14	76.91
13 46 13 00-0056 EA 16" Square Bonding Plate For Aluminum Lightning Protection System.....	283.37	123.05
<b>13 46 13 00-0057 Cable Supports</b> <small>(13 46 13 00-0001)</small>		
<b>13 46 13 00-0058 Copper Cable Supports</b> <small>(13 46 13 00-0057)</small>		
13 46 13 00-0059 EA Loop Fastener, Copper Cable Supports For Lightning Protection System.....	34.82	15.39
13 46 13 00-0060 EA Adhesive Cable Holder, Copper Cable Support For Lightning Protection System.....	35.39	15.39
<b>13 46 13 00-0061 Aluminum Cable Supports</b> <small>(13 46 13 00-0057)</small>		
13 46 13 00-0062 EA Loop Fastener, Aluminum Cable Supports For Lightning Protection System.....	34.36	15.39
13 46 13 00-0063 EA Adhesive Cable Holder, Aluminum Cable Support For Lightning Protection System.....	34.17	15.39
<b>13 46 13 00-0064 Bonding Straps</b> <small>(13 46 13 00-0001)</small>		
<b>13 46 13 00-0065 Copper Bonding Straps</b> <small>(13 46 13 00-0064)</small>		
13 46 13 00-0066 EA 3/4" x 9-1/2" Flex Braided Strap For Copper Lightning Protection System.....	97.23	46.15
<b>13 46 13 00-0067 Aluminum Bonding Straps</b> <small>(13 46 13 00-0064)</small>		
13 46 13 00-0068 EA 3/4" x 9-1/2" Flex Braided Strap For Aluminum Lightning Protection System.....	99.10	46.15
<b>13 46 13 00-0069 Accessories For Lightning Protection</b> <small>(13 46 13 00-0001)</small>		
<b>13 46 13 00-0070 Copper Adapters</b> <small>(13 46 13 00-0069)</small>		
13 46 13 00-0071 EA Swivel Adapters For Copper Lightning Protection System.....	34.62	7.69
<b>13 46 13 00-0072 Aluminum Adapters</b> <small>(13 46 13 00-0069)</small>		
13 46 13 00-0073 EA Swivel Adapters For Aluminum Lightning Protection System.....	43.75	7.69
13 46 13 00-0074 EA Floor Ground Receptacle For Aluminum Lightning Protection System.....	229.02	76.91

**END OF SECTION 13**





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 14 Conveying Equipment

### 14 01 Operation and Maintenance of Conveying Equipment <sup>(14)</sup>

#### 14 01 20 Operation and Maintenance of Elevators <sup>(14 01)</sup>

##### 14 01 20 71 Elevator Rehabilitation <sup>(14 01 20)</sup>

##### 14 01 20 71-0001 Elevator Maintenance <sup>(14 01 20 71)</sup>

14 01 20 71-0002	EA	Regular Routine Elevator Inspection, Traction Up to 10 floors (Sufficient for Issue of Certificate/Permit) .....	582.77	
14 01 20 71-0003	EA	Regular Routine Elevator Inspection, Traction Over 10 floors (Sufficient for Issue of Certificate/Permit) .....	777.03	
14 01 20 71-0004	EA	Regular Routine Elevator Inspection, Hydraulic (Sufficient for Issue of Certificate/Permit) .....	485.64	
14 01 20 71-0005	EA	Regular Routine Elevator Inspection, Roped Hydraulic (Sufficient for Issue of Certificate/Permit) .....	485.64	
14 01 20 71-0006	EA	Regular Routine Elevator Inspection, Dumbwaiter/Cart Lifts (Sufficient for Issue of Certificate/Permit) .....	291.38	
14 01 20 71-0007	HR	Elevator Servicing - Hydraulic, Labor Only .....	191.34	
14 01 20 71-0008	HR	Elevator Servicing - Traction, Labor Only .....	239.17	
14 01 20 71-0009	EA	Annual Category 1 Test for Traction Up to 10 floors .....	1,389.31	
14 01 20 71-0010	EA	Annual Category 1 Test for Traction Over 10 floors .....	1,736.63	
14 01 20 71-0011	EA	Annual Category 1 Test for Hydraulic Elevator .....	694.65	
14 01 20 71-0012	EA	Annual Category 1 Test for Roped Hydraulic Elevator .....	1,562.96	
14 01 20 71-0013	EA	Annual Category 1 Test for Dumbwaiter/Cart Lifts .....	1,041.98	
14 01 20 71-0014	EA	Full Load Test for Traction Up to 10 floors .....	2,431.29	
14 01 20 71-0015	EA	Full Load Test for Traction Over 10 floors .....	2,778.61	
14 01 20 71-0016	EA	Full Load Test for Hydraulic Elevator .....	2,083.96	
14 01 20 71-0017	EA	Full Load Test for Roped Hydraulic Elevator .....	2,604.94	
14 01 20 71-0018	EA	Full Load Test for Dumbwaiter/Cart Lifts .....	1,389.31	
14 01 20 71-0019	EA	Acceptance Test for Traction Up to 10 floors .....	2,204.55	
14 01 20 71-0020	EA	Acceptance Test for Traction Over 10 floors .....	2,480.12	
14 01 20 71-0021	EA	Acceptance Test for Hydraulic Elevator .....	2,204.55	
14 01 20 71-0022	EA	Acceptance Test for Roped Hydraulic Elevator .....	2,204.55	
14 01 20 71-0023	EA	Acceptance Test for Dumbwaiter/Cart Lifts .....	2,204.55	

##### 14 01 20 71-0024 Elevator Modernization <sup>(14 01 20 71)</sup>

14 01 20 71-0025	EA	5" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM) .....	40,519.35	8,596.52
		Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.		
		<i>For Union-Guard Cathodic Protection, Add</i>	9,398.14	
		<i>Note: Includes Pump.</i>		
		<i>For An Additional Stop, Add</i>	10,045.97	
		<i>Note: Includes Removal.</i>		
14 01 20 71-0026	EA	6" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM) .....	43,742.27	10,387.45
		Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.		
		<i>For Union-Guard Cathodic Protection, Add</i>	9,491.49	
		<i>Note: Includes Pump.</i>		
		<i>For An Additional Stop, Add</i>	10,647.93	
		<i>Note: Includes Removal.</i>		
14 01 20 71-0027	EA	8" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM) .....	52,129.60	11,820.20
		Note: Includes replacing existing piston/cylinder, 12 3/4" Sealed PVC, pit channel and buffers.		
		<i>For Union-Guard Cathodic Protection, Add</i>	10,985.09	
		<i>Note: Includes Pump.</i>		
		<i>For An Additional Stop, Add</i>	13,576.01	
		<i>Note: Includes Removal.</i>		
14 01 20 71-0028	EA	Removal And Replacement Of Hydraulic Control (Maxton) Valve .....	5,441.41	
14 01 20 71-0029	EA	5 Gallon Container Of Hydraulic Oil For Elevator Modernization .....	74.95	
14 01 20 71-0030	EA	55 Gallon Container Of Hydraulic Oil For Elevator Modernization .....	825.49	
14 01 20 71-0031	SET	Car Roller Guide Assembly, Set Of Four .....	4,272.66	716.38
		Note: Includes cover plate.		
14 01 20 71-0032	SET	CWT Roller Guide Assembly, Set Of Four .....	3,607.26	716.38
		Note: Includes cover plate.		
14 01 20 71-0033	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Baked Enamel Finish .....	7,836.99	
		Note: Excludes buildback.		
14 01 20 71-0034	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Satin Stainless Finish .....	8,583.79	
		Note: Excludes buildback.		
14 01 20 71-0035	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Baked Enamel Finish .....	8,316.81	
		Note: Excludes buildback.		
14 01 20 71-0036	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Satin Stainless Finish .....	9,063.61	
		Note: Excludes buildback.		
14 01 20 71-0037	SF	Epoxy Aggregate, Elevator Cab Flooring .....	89.41	20.47
		Note: SF cost not applicable for partial cab flooring.		
14 01 20 71-0038	SF	Aluminum Diamond Plate, Elevator Cab Flooring .....	76.16	20.47
		Note: SF cost not applicable for partial cab flooring.		
14 01 20 71-0039	SF	1/8" Thick, Vinyl Composition Tile (VCT), Elevator Cab Flooring .....	14.01	2.68
14 01 20 71-0040	EA	Solid State Starting (Soft Start) .....	6,279.34	537.28
14 01 20 71-0041	EA	Pump Unit (Tank, Valve, Oil, Motor And Victaulic Fittings) .....	20,232.76	2,999.82
14 01 20 71-0042	EA	Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Side Slide (GAL Manufacturing) .....	2,412.00	716.38
14 01 20 71-0043	EA	Hoistway Door Closer Set (Spring Closer), Single Speed Side Slide (GAL Manufacturing) .....	455.31	179.09
14 01 20 71-0044	EA	Hoistway Door Closer Set (Spirator Closer), Single Speed Side Slide (GAL) .....	442.21	358.19
14 01 20 71-0045	EA	Hoistway Door Interlock Set, Single Speed Side Slide (GAL Manufacturing) .....	618.08	313.42
14 01 20 71-0046	EA	Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Center Opening (GAL Manufacturing) .....	2,913.52	716.38
14 01 20 71-0047	EA	Hoistway Door Closer Set (Spring Closer), Single Speed Center Opening (GAL Manufacturing) .....	615.10	331.32

**14 Conveying Equipment**  
**14 01 Operation and Maintenance of Conveying Equipment**  
**14 01 20 Operation and Maintenance of Elevators**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 01 20 71-0048 EA Hoistway Door Closer Set (Spirator Closer), Single Speed Center Opening (GAL).....	442.21	358.19
14 01 20 71-0049 EA Hoistway Door Interlock Set, Single Speed Center Opening (GAL Manufacturing).....	759.59	358.19
14 01 20 71-0050 EA Fire Service Key Switch Controller .....	3,848.10	716.38
14 01 20 71-0051 EA ADA Telephone (Rath Microtech).....	1,217.80	358.19
14 01 20 71-0052 EA Car Door Operator With ADA Buzzer, Single Speed Side Slide (GAL Manufacturing).....	8,723.05	1,432.75
14 01 20 71-0053 EA Car Door Operator With ADA Buzzer, Single Speed Center Opening (GAL Manufacturing).....	9,432.51	1,432.75
14 01 20 71-0054 EA Car Door Safety Edge (Infrared Proximity Type Edge).....	2,706.89	358.19
14 01 20 71-0055 EA Car Operating Panel (ADA, Fire, Position, Chime).....	9,227.14	1,432.75
14 01 20 71-0056 EA Car Position LED Indicator And Cover Plate, Stainless Steel.....	1,976.60	358.19
14 01 20 71-0057 EA Car Traveling Lanterns With Audible Signal .....	1,690.67	358.19
14 01 20 71-0058 EA Hoistway Door Jamb Floor Tags (Braille) .....	246.30	179.09
14 01 20 71-0059 EA Lobby Vandal Resistant Call Station.....	1,587.98	358.19
14 01 20 71-0060 LF Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial) .....	21.58	
Note: Excludes Removal and Replacement of Material. See CSI section 14 01 20 71-0061 for Removal and Replacement of Traveling Cable.		
14 01 20 71-0061 EA Removal And Replacement Of Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial).....	5,731.01	2,865.51
Note: Excludes Traveling Cable material. See CSI section 14 01 20 71-0060 for Traveling Cable material.		
14 01 20 71-0062 LF Governor Cable .....	1.68	
Note: Removal and Replacement of Governor Cable is part of Traveling Cable Removal and Replacement.		
14 01 20 71-0063 EA Elevator Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Plastic Laminate - Hang On Panels.....	6,614.72	716.38
14 01 20 71-0064 EA Elevator Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Rigid Stainless Steel - Hang On Panels.....	9,601.92	716.38
14 01 20 71-0065 EA Removal And Replacement Of Governor.....	5,547.07	716.38
14 01 20 71-0066 EA Removal And Replacement Of Car Station.....	8,779.06	1,432.75
14 01 20 71-0067 EA Removal And Replacement Of Telephone.....	1,830.70	358.19
14 01 20 71-0068 EA Removal And Replacement Of Hall Lanterns .....	1,369.83	358.19
14 01 20 71-0069 EA Hall Call Buttons, Vandal Resistant .....	1,089.78	358.19
14 01 20 71-0070 EA Hall Traveling Lanterns With Audible Signal.....	1,728.01	358.19
14 01 20 71-0071 EA Add Raised Character (Braille) Signage To Control Panel .....	200.93	179.09
14 01 20 71-0072 EA New Microprocessor Based Controller (Non-Proprietary).....	47,616.82	5,731.01
14 01 20 71-0073 EA New Steel Shell And Canopy (Excludes Plastic Panels), For 5' x 7' Cab.....	27,266.52	5,731.01
14 01 20 71-0074 EA New Steel Shell, Canopy And Platform (Excludes Plastic Laminate), For 5' x 7' Cab .....	42,332.52	5,731.01
14 01 20 71-0075 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangement), Baked Enamel .....	3,381.35	
14 01 20 71-0076 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangement), Baked Enamel .....	3,586.72	
14 01 20 71-0077 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangement), Stainless Steel .....	3,812.63	
14 01 20 71-0078 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangement), Stainless Steel.....	4,059.07	
14 01 20 71-0079 EA Elevator Pit Ladder, Steel .....	3,175.98	358.19
Note: Labor cost is for bolting to concrete pit wall.		
14 01 20 71-0080 EA New Steel Shell, Canopy, Platform, Standard Cab Plastic Laminate, For 5' x 7' Cab.....	52,666.02	5,731.01
14 01 20 71-0081 LF Removal And Replacement Of Hoisting Cable, 3/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 4.5, EHS Traction Steel - 5.5.....	131.52	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0082 LF Removal And Replacement Of Hoisting Cable, 1/2" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 6.0, EHS Traction Steel - 9.7.....	140.23	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0083 LF Removal And Replacement Of Hoisting Cable, 5/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 12.7, EHS Traction Steel - 15.4.....	146.20	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0084 EA Hydraulic Leak Detector And Alarm in Elevator Pit (Stancor Oil Minder - 0.5 HP).....	9,669.41	716.38
14 01 20 71-0085 EA 6" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,829.43	716.38
Note: Cladding typically done by metal company.		
14 01 20 71-0086 EA 8" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	3,922.78	716.38
Note: Cladding typically done by metal company.		
14 01 20 71-0087 EA 10" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	4,016.13	716.38
Note: Cladding typically done by metal company.		
14 01 20 71-0088 EA 12" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	4,128.15	716.38
Note: Cladding typically done by metal company.		
14 01 20 71-0089 EA "Rope Gripper" With Pumping Unit For Use On 4-7/8" Maximum Out to Out Of Cable .....	8,683.63	716.38
14 01 20 71-0090 EA "Rope Gripper" With Pumping Unit For Use On 6" Maximum Out to Out Of Cable .....	8,683.63	716.38
14 01 20 71-0091 EA "Rope Gripper" With Pumping Unit For Use On 10" Maximum Out to Out Of Cable .....	12,417.63	716.38
14 01 20 71-0092 EA "Rope Gripper" With Pumping Unit For Use On 11-1/2" Maximum Out to Out Of Cable .....	14,284.63	716.38
14 01 20 71-0093 EA 60 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	5,009.38	181.95
14 01 20 71-0094 EA 100 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	5,233.75	218.34
14 01 20 71-0095 EA 200 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	6,927.16	254.74
14 01 20 71-0096 EA Aluminum Handrail Spacers With Set Screw .....	217.87	179.09
14 01 20 71-0097 EA Bronze Handrail Spacers With Set Screw .....	223.04	179.09
14 01 20 71-0098 LF 1/2" x 2" Round Stainless Steel Elevator Handrail.....	152.43	42.14
14 01 20 71-0099 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish .....	146.34	42.14
14 01 20 71-0100 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish .....	174.79	42.14
14 01 20 71-0101 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish .....	194.06	42.14
14 01 20 71-0102 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish .....	222.74	42.14
14 01 20 71-0103 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish .....	178.38	42.14
14 01 20 71-0104 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish .....	203.69	42.14
14 01 20 71-0105 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish .....	319.86	42.14
14 01 20 71-0106 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish .....	360.04	42.14
14 01 20 71-0107 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	145.37	42.14
14 01 20 71-0108 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish .....	146.92	42.14
14 01 20 71-0109 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	188.98	42.14
14 01 20 71-0110 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	176.58	42.14
14 01 20 71-0111 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	189.80	42.14
14 01 20 71-0112 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	239.11	42.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 01 20 71-0113 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish .....	182.86	42.14
14 01 20 71-0114 LF 3/8" x 2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish .....	187.11	42.14
14 01 20 71-0115 LF 3/8" x 2-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish .....	316.83	42.14
14 01 20 71-0116 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Mirror Finish .....	206.16	42.14
14 01 20 71-0117 LF 3/8" x 2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish .....	317.66	42.14
14 01 20 71-0118 LF 3/8" x 2-1/2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish .....	360.04	42.14

**14 01 30 Operation and Maintenance of Escalators and Moving Walks <sup>(14)</sup>**

**14 01 30 71 Escalators and Moving Walks Rehabilitation <sup>(14 01 30)</sup>**

**14 01 30 71-0001 Maintenance <sup>(14 01 30 71)</sup>**

14 01 30 71-0002 EA Regular Escalator Inspection (Sufficient For Issue Of Certificate/Permit) .....	820.78
14 01 30 71-0003 HR Escalator Servicing, Labor Only .....	191.34
14 01 30 71-0004 EA Acceptance Test Of Escalators And Moving Walks .....	4,514.29

**14 01 30 71-0005 Modernization <sup>(14 01 30 71)</sup>**

14 01 30 71-0006 EA Removal And Replacement Of 28" Wide Escalator Stair Tread .....	1,997.51
14 01 30 71-0007 EA Removal And Replacement Of 36" Wide Escalator Stair Tread .....	2,140.00
14 01 30 71-0008 EA Removal And Replacement Of 48" Wide Escalator Stair Tread .....	2,244.54
14 01 30 71-0009 EA Removal And Replacement Of 54" Wide Escalator Stair Tread .....	2,420.53
14 01 30 71-0010 LF Removal And Replacement Of Sliding Handrail .....	187.59

**14 20 Elevators <sup>(14)</sup>**

Note: Excludes final electrical work or shaft walls.

**14 21 Electric Traction Elevators <sup>(14 20)</sup>**

**14 21 13 Electric Traction Freight Elevators <sup>(14 21)</sup>**

**14 21 13 00-0001 Electric Traction Freight Elevators <sup>(14 21 13)</sup>**

Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings with power doors.

14 21 13 00-0002 EA Electric Traction Freight Elevator, 4,000 LB x 200 FPM, 6 Stops, 6 Openings .....	368,262.06
For Each Opening With Bonderized Steel Door, Add	304.36
For Each Opening With Stainless Steel Doors, Add	760.90
For Each Opening With Two Speed Doors, Add	913.08
For Custom Plastic Laminated Cab Interiors, Add	4,252.40
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60
For Stainless Steel Cab Interior, Add	8,504.80
For Elevator With Manual Door, Deduct	-10,000.00
For Class "C-1" Loading, Add	1,771.12
For Class "C-2" Loading, Add	2,126.20
For Class "C-3" Loading, Add	2,908.64
For Removal Of Existing Stop, Add	9,010.21
For Each Additional Stop, Add	37,408.94
For Each Floor < 6 Stops, Deduct	-30,894.13
For Each Additional 50 FPM, Add	6,378.60
For Removal Of Existing Elevator, Add	45,051.07
14 21 13 00-0003 EA Electric Traction Freight Elevator, 5,000 LB x 200 FPM, 6 Stops, 6 Openings .....	391,730.07
For Each Opening With Bonderized Steel Door, Add	304.36
For Each Opening With Stainless Steel Doors, Add	760.90
For Each Opening With Two Speed Doors, Add	913.08
For Custom Plastic Laminated Cab Interiors, Add	4,252.40
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60
For Stainless Steel Cab Interior, Add	8,504.80
For Elevator With Manual Door, Deduct	-10,000.00
For Class "C-1" Loading, Add	3,542.25
For Class "C-2" Loading, Add	4,252.40
For Class "C-3" Loading, Add	5,893.83
For Removal Of Existing Stop, Add	9,010.21
For Each Additional Stop, Add	37,408.94
For Each Floor < 6 Stops, Deduct	-30,894.13
For Each Additional 50 FPM, Add	6,378.60
For Removal Of Existing Elevator, Add	45,051.07
14 21 13 00-0004 EA Electric Traction Freight Elevator, 6,000 LB x 200 FPM, 6 Stops, 6 Openings .....	416,606.59
For Elevator With Manual Door, Deduct	-10,000.00
For Class "C-1" Loading, Add	3,542.25
For Class "C-2" Loading, Add	4,252.40
For Class "C-3" Loading, Add	5,893.83
For Custom Plastic Laminated Cab Interiors, Add	5,315.50
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,441.70
For Stainless Steel Cab Interior, Add	9,567.90
For Removal Of Existing Stop, Add	9,010.21
For Each Additional Stop, Add	38,472.04
For Each Additional 50 FPM, Add	6,378.60
For Each Opening With Bonderized Steel Door, Add	318.93
For Each Opening With Stainless Steel Doors, Add	637.86
For Each Opening With Two Speed Doors, Add	797.32
For Removal Of Existing Elevator, Add	45,051.07
For Each Floor < 6 Stops, Deduct	-31,894.13

**14 Conveying Equipment**

**14 20 Elevators**

**14 21 Electric Traction Elevators**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 21	13 00-0005	EA	Electric Traction Freight Elevator, 7,000 LB x 200 FPM, 6 Stops, 6 Openings.....	426,980.83	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Class "C-1" Loading, Add</i>	3,542.25	
			<i>For Class "C-2" Loading, Add</i>	4,252.40	
			<i>For Class "C-3" Loading, Add</i>	5,893.83	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	5,315.50	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	7,441.70	
			<i>For Stainless Steel Cab Interior, Add</i>	9,567.90	
			<i>For Removal Of Existing Stop, Add</i>	9,010.21	
			<i>For Each Additional Stop, Add</i>	38,472.04	
			<i>For Each Additional 50 FPM, Add</i>	6,378.60	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	318.93	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	637.86	
			<i>For Each Opening With Two Speed Doors, Add</i>	797.32	
			<i>For Removal Of Existing Elevator, Add</i>	45,051.07	
			<i>For Each Floor &lt; 6 Stops, Deduct</i>	-31,894.13	
14 21	13 00-0006	EA	Electric Traction Freight Elevator, 8,000 LB x 200 FPM, 6 Stops, 6 Openings.....	440,170.51	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional 50 FPM, Add</i>	15,218.00	
			<i>For Class "C-1" Loading, Add</i>	7,086.62	
			<i>For Class "C-2" Loading, Add</i>	8,504.80	
			<i>For Class "C-3" Loading, Add</i>	11,634.57	
			<i>For Removal Of Existing Stop, Add</i>	9,010.21	
			<i>For Each Additional Stop, Add</i>	38,472.04	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	425.24	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	744.17	
			<i>For Each Opening With Two Speed Doors, Add</i>	903.64	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	6,378.60	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	8,504.80	
			<i>For Stainless Steel Cab Interior, Add</i>	10,631.00	
			<i>For Removal Of Existing Elevator, Add</i>	45,051.07	
			<i>For Each Floor &lt; 6 Stops, Deduct</i>	-31,894.13	
14 21	13 00-0007	EA	Electric Traction Freight Elevator, 10,000 LB x 200 FPM, 6 Stops, 6 Openings.....	455,476.29	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional 50 FPM, Add</i>	15,218.00	
			<i>For Class "C-1" Loading, Add</i>	7,086.62	
			<i>For Class "C-2" Loading, Add</i>	8,504.80	
			<i>For Class "C-3" Loading, Add</i>	11,634.57	
			<i>For Removal Of Existing Stop, Add</i>	9,010.21	
			<i>For Each Additional Stop, Add</i>	38,472.04	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	425.24	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	744.17	
			<i>For Each Opening With Two Speed Doors, Add</i>	903.64	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	6,378.60	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	8,504.80	
			<i>For Stainless Steel Cab Interior, Add</i>	10,631.00	
			<i>For Removal Of Existing Elevator, Add</i>	45,051.07	
			<i>For Each Floor &lt; 6 Stops, Deduct</i>	-31,894.13	
14 21	13 00-0008	EA	Electric Traction Freight Elevator, 12,000 LB x 200 FPM, 6 Stops, 6 Openings.....	468,230.02	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional 50 FPM, Add</i>	15,218.00	
			<i>For Class "C-1" Loading, Add</i>	7,086.62	
			<i>For Class "C-2" Loading, Add</i>	8,504.80	
			<i>For Class "C-3" Loading, Add</i>	11,634.57	
			<i>For Removal Of Existing Stop, Add</i>	9,010.21	
			<i>For Each Additional Stop, Add</i>	38,472.04	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	425.24	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	744.17	
			<i>For Each Opening With Two Speed Doors, Add</i>	903.64	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	6,378.60	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	8,504.80	
			<i>For Stainless Steel Cab Interior, Add</i>	10,631.00	
			<i>For Removal Of Existing Elevator, Add</i>	45,051.07	
			<i>For Each Floor &lt; 6 Stops, Deduct</i>	-31,894.13	

**14 21 23 Electric Traction Passenger Elevators (14 21)**

**14 21 23 13 Machine Room Electric Traction Passenger Elevators (14 21 23)**

**14 21 23 13-0001 Electric Traction Passenger Elevators (14 21 23 13)**

Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings.

14 21	23 13-0002	EA	Electric Traction Passenger Elevator, 2,000 LB x 200 FPM, 6 Stops, 6 Openings.....	282,853.80	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,252.40	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,378.60	
			<i>For Stainless Steel Cab Interior, Add</i>	8,504.80	
			<i>For Each Additional 50 FPM, Add</i>	6,277.42	
			<i>For Removal Of Existing Stop, Add</i>	4,505.11	
			<i>For Each Additional Stop, Add</i>	37,408.94	
			<i>For Each Floor &lt; 6 Stops, Deduct</i>	-21,262.75	
			<i>For Removal Of Existing Elevator, Add</i>	33,788.31	



<b>Conveying Equipment</b>	<b>14</b>
<b>Elevators</b>	<b>14 20</b>
<b>Electric Traction Elevators</b>	<b>14 21</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 21 23 13-0003 EA Electric Traction Passenger Elevator, 2,500 LB x 200 FPM, 6 Stops, 6 Openings.....	290,267.25	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
For Stainless Steel Cab Interior, Add	8,504.80	
For Each Additional 50 FPM, Add	6,277.42	
For Removal Of Existing Stop, Add	4,505.11	
For Each Additional Stop, Add	37,408.94	
For Each Floor < 6 Stops, Deduct	-21,262.75	
For Removal Of Existing Elevator, Add	33,788.31	
14 21 23 13-0004 EA Electric Traction Passenger Elevator, 3,000 LB x 200 FPM, 6 Stops, 6 Openings.....	296,062.96	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
For Stainless Steel Cab Interior, Add	8,504.80	
For Each Additional 50 FPM, Add	6,277.42	
For Removal Of Existing Stop, Add	4,505.11	
For Each Additional Stop, Add	37,408.94	
For Each Floor < 6 Stops, Deduct	-21,262.75	
For Removal Of Existing Elevator, Add	33,788.31	
14 21 23 13-0005 EA Electric Traction Passenger Elevator, 3,500 LB x 200 FPM, 6 Stops, 6 Openings.....	300,407.39	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
For Stainless Steel Cab Interior, Add	8,504.80	
For Each Additional 50 FPM, Add	6,277.42	
For Removal Of Existing Stop, Add	4,505.11	
For Each Additional Stop, Add	37,408.94	
For Each Floor < 6 Stops, Deduct	-21,262.75	
For Removal Of Existing Elevator, Add	33,788.31	
14 21 23 13-0006 EA Electric Traction Passenger Elevator, 4,000 LB x 200 FPM, 6 Stops, 6 Openings.....	305,775.14	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
For Stainless Steel Cab Interior, Add	8,504.80	
For Each Additional 50 FPM, Add	6,277.42	
For Removal Of Existing Stop, Add	4,505.11	
For Each Additional Stop, Add	37,408.94	
For Each Floor < 6 Stops, Deduct	-21,262.75	
For Removal Of Existing Elevator, Add	33,788.31	
14 21 23 13-0007 EA Electric Traction Passenger Elevator, 4,500 LB x 200 FPM, 6 Stops, 6 Openings.....	311,433.52	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
For Stainless Steel Cab Interior, Add	8,504.80	
For Each Additional 50 FPM, Add	6,277.42	
For Removal Of Existing Stop, Add	4,505.11	
For Each Additional Stop, Add	37,408.94	
For Each Floor < 6 Stops, Deduct	-21,262.75	
For Removal Of Existing Elevator, Add	33,788.31	
14 21 23 13-0008 EA Electric Traction Passenger Elevator, 5,000 LB x 200 FPM, 6 Stops, 6 Openings.....	317,252.24	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
For Stainless Steel Cab Interior, Add	8,504.80	
For Each Additional 50 FPM, Add	6,277.42	
For Removal Of Existing Stop, Add	4,505.11	
For Each Additional Stop, Add	37,408.94	
For Each Floor < 6 Stops, Deduct	-21,262.75	
For Removal Of Existing Elevator, Add	33,788.31	

**14 24 Hydraulic Elevators** (14 20)

Note: Prices are for a complete operating elevator including all standard controls, hydraulic motor and devices based on unit with cab sized 5' by 8' with galvanized primed shaft door with cab allowances as listed below.

**14 24 13 Hydraulic Freight Elevators** (14 24)

**14 24 13 00-0001 Hydraulic Freight Elevators** (14 24 13)

Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings with power doors.

**14 Conveying Equipment**

**14 20 Elevators**

**14 24 Hydraulic Elevators**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 24 13 00-0002	EA Hydraulic Freight Elevator, 3,000 LB x 50 FPM, 3 Stops, 3 Openings.....	225,420.10	
	For Each Additional Stop, Add	28,062.86	
	For 2 Stops, Deduct	-15,941.96	
	For Each Opening With Bonderized Steel Door, Add	304.36	
	For Each Opening With Stainless Steel Doors, Add	760.90	
	For Each Opening With Two Speed Doors, Add	913.08	
	For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
	For Stainless Steel Cab Interior, Add	8,504.80	
	For Each Additional 50 FPM, Add	3,043.60	
	For Elevator With Manual Door, Deduct	-10,000.00	
	For Class "C-1" Loading, Add	1,771.12	
	For Class "C-2" Loading, Add	2,126.20	
	For Class "C-3" Loading, Add	2,908.64	
	For Well Hole Drilling (12" Diameter Hole), Add Per VLF	319.66	
	Note: Includes Labor and Equipment.		
	For 12" PVC Liner, Add Per LF	61.23	
	Note: Liner for Hydraulic Elevator Well Hole if necessary.		
	For 12" Steel Liner, Add Per LF	95.68	
	Note: Liner for Hydraulic Elevator Well Hole if necessary.		
	For Removal Of Existing Stop, Add	9,010.21	
	For Removal Of Existing Elevator, Add	22,525.54	
14 24 13 00-0003	EA Hydraulic Freight Elevator, 3,500 LB x 50 FPM, 3 Stops, 3 Openings.....	232,755.55	
	For Each Additional Stop, Add	28,062.86	
	For 2 Stops, Deduct	-15,941.96	
	For Each Opening With Bonderized Steel Door, Add	304.36	
	For Each Opening With Stainless Steel Doors, Add	760.90	
	For Each Opening With Two Speed Doors, Add	913.08	
	For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
	For Stainless Steel Cab Interior, Add	8,504.80	
	For Each Additional 50 FPM, Add	3,043.60	
	For Elevator With Manual Door, Deduct	-10,000.00	
	For Class "C-1" Loading, Add	1,771.12	
	For Class "C-2" Loading, Add	2,126.20	
	For Class "C-3" Loading, Add	2,908.64	
	For Well Hole Drilling (12" Diameter Hole), Add Per VLF	319.66	
	Note: Includes Labor and Equipment.		
	For 12" PVC Liner, Add Per LF	61.23	
	Note: Liner for Hydraulic Elevator Well Hole if necessary.		
	For 12" Steel Liner, Add Per LF	95.68	
	Note: Liner for Hydraulic Elevator Well Hole if necessary.		
	For Removal Of Existing Stop, Add	9,010.21	
	For Removal Of Existing Elevator, Add	22,525.54	
14 24 13 00-0004	EA Hydraulic Freight Elevator, 4,000 LB x 50 FPM, 3 Stops, 3 Openings.....	239,915.76	
	For Each Additional Stop, Add	28,062.86	
	For 2 Stops, Deduct	-15,941.96	
	For Each Opening With Bonderized Steel Door, Add	304.36	
	For Each Opening With Stainless Steel Doors, Add	760.90	
	For Each Opening With Two Speed Doors, Add	913.08	
	For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
	For Stainless Steel Cab Interior, Add	8,504.80	
	For Each Additional 50 FPM, Add	3,043.60	
	For Elevator With Manual Door, Deduct	-10,000.00	
	For Class "C-1" Loading, Add	1,771.12	
	For Class "C-2" Loading, Add	2,126.20	
	For Class "C-3" Loading, Add	2,908.64	
	For Well Hole Drilling (12" Diameter Hole), Add Per VLF	319.66	
	Note: Includes Labor and Equipment.		
	For 12" PVC Liner, Add Per LF	61.23	
	Note: Liner for Hydraulic Elevator Well Hole if necessary.		
	For 12" Steel Liner, Add Per LF	95.68	
	Note: Liner for Hydraulic Elevator Well Hole if necessary.		
	For Removal Of Existing Stop, Add	9,010.21	
	For Removal Of Existing Elevator, Add	22,525.54	
14 24 13 00-0005	EA Hydraulic Freight Elevator, 5,000 LB x 50 FPM, 3 Stops, 3 Openings.....	246,847.54	
	For Each Opening With Bonderized Steel Door, Add	304.36	
	For Each Opening With Stainless Steel Doors, Add	760.90	
	For Each Opening With Two Speed Doors, Add	913.08	
	For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
	For Stainless Steel Cab Interior, Add	8,504.80	
	For Each Additional 50 FPM, Add	3,043.60	
	For Elevator With Manual Door, Deduct	-10,000.00	
	For Each Additional Stop, Add	29,584.66	
	For 2 Stops, Deduct	-16,941.96	
	For Class "C-1" Loading, Add	3,542.25	
	For Class "C-2" Loading, Add	4,252.40	
	For Class "C-3" Loading, Add	5,893.83	
	For Well Hole Drilling (12" Diameter Hole), Add Per VLF	319.66	
	Note: Includes Labor and Equipment.		
	For 12" PVC Liner, Add Per LF	61.23	
	Note: Liner for Hydraulic Elevator Well Hole if necessary.		
	For 12" Steel Liner, Add Per LF	95.68	
	Note: Liner for Hydraulic Elevator Well Hole if necessary.		
	For Removal Of Existing Stop, Add	9,010.21	
	For Removal Of Existing Elevator, Add	22,525.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24	13 00-0006	EA	Hydraulic Freight Elevator, 6,000 LB x 50 FPM, 3 Stops, 3 Openings.....	261,274.50	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Each Opening With Two Speed Doors, Add</i>	913.08	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional Stop, Add</i>	29,584.66	
			<i>For 2 Stops, Deduct</i>	-16,941.96	
			<i>For Class "C-1" Loading, Add</i>	3,542.25	
			<i>For Class "C-2" Loading, Add</i>	4,252.40	
			<i>For Class "C-3" Loading, Add</i>	5,893.83	
			<i>For Each Additional 50 FPM, Add</i>	15,218.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	5,315.50	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	7,441.70	
			<i>For Stainless Steel Cab Interior, Add</i>	9,567.90	
			<i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>	319.66	
			<i>Note: Includes Labor and Equipment.</i>		
			<i>For 12" PVC Liner, Add Per LF</i>	61.23	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For 12" Steel Liner, Add Per LF</i>	95.68	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For Removal Of Existing Stop, Add</i>	9,010.21	
			<i>For Removal Of Existing Elevator, Add</i>	22,525.54	
14 24	13 00-0007	EA	Hydraulic Freight Elevator, 7,000 LB x 50 FPM, 3 Stops, 3 Openings.....	268,183.56	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Each Opening With Two Speed Doors, Add</i>	913.08	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional Stop, Add</i>	29,584.66	
			<i>For 2 Stops, Deduct</i>	-16,941.96	
			<i>For Class "C-1" Loading, Add</i>	3,542.25	
			<i>For Class "C-2" Loading, Add</i>	4,252.40	
			<i>For Class "C-3" Loading, Add</i>	5,893.83	
			<i>For Each Additional 50 FPM, Add</i>	15,218.00	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	5,315.50	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	7,441.70	
			<i>For Stainless Steel Cab Interior, Add</i>	9,567.90	
			<i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>	319.66	
			<i>Note: Includes Labor and Equipment.</i>		
			<i>For 12" PVC Liner, Add Per LF</i>	61.23	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For 12" Steel Liner, Add Per LF</i>	95.68	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For Removal Of Existing Stop, Add</i>	9,010.21	
			<i>For Removal Of Existing Elevator, Add</i>	33,788.31	
14 24	13 00-0008	EA	Hydraulic Freight Elevator, 8,000 LB x 50 FPM, 3 Stops, 3 Openings.....	278,745.06	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Each Opening With Two Speed Doors, Add</i>	913.08	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional Stop, Add</i>	29,584.66	
			<i>For 2 Stops, Deduct</i>	-16,941.96	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	5,315.50	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	7,441.70	
			<i>For Stainless Steel Cab Interior, Add</i>	9,567.90	
			<i>For Each Additional 50 FPM, Add</i>	16,739.80	
			<i>For Class "C-1" Loading, Add</i>	8,855.62	
			<i>For Class "C-2" Loading, Add</i>	10,631.00	
			<i>For Class "C-3" Loading, Add</i>	14,543.21	
			<i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>	319.66	
			<i>Note: Includes Labor and Equipment.</i>		
			<i>For 12" PVC Liner, Add Per LF</i>	61.23	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For 12" Steel Liner, Add Per LF</i>	95.68	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For Removal Of Existing Stop, Add</i>	9,010.21	
			<i>For Removal Of Existing Elevator, Add</i>	33,788.31	
14 24	13 00-0009	EA	Hydraulic Freight Elevator, 10,000 LB x 50 FPM, 3 Stops, 3 Openings.....	286,167.95	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Each Opening With Two Speed Doors, Add</i>	913.08	
			<i>For Elevator With Manual Door, Deduct</i>	-10,000.00	
			<i>For Each Additional Stop, Add</i>	29,584.66	
			<i>For 2 Stops, Deduct</i>	-16,941.96	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	5,315.50	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	7,441.70	
			<i>For Stainless Steel Cab Interior, Add</i>	9,567.90	
			<i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>	319.66	
			<i>Note: Includes Labor and Equipment.</i>		
			<i>For 12" PVC Liner, Add Per LF</i>	61.23	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For 12" Steel Liner, Add Per LF</i>	95.68	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For Removal Of Existing Stop, Add</i>	9,010.21	
			<i>For Removal Of Existing Elevator, Add</i>	33,788.31	
			<i>For Each Additional 50 FPM, Add</i>	18,261.60	
			<i>For Class "C-1" Loading, Add</i>	11,778.08	
			<i>For Class "C-2" Loading, Add</i>	14,139.23	
			<i>For Class "C-3" Loading, Add</i>	19,342.04	

**14 Conveying Equipment**

**14 20 Elevators**

**14 24 Hydraulic Elevators**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 13 00-0010 EA Hydraulic Freight Elevator, 12,000 LB x 50 FPM, 3 Stops, 3 Openings.....	299,202.30	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Each Opening With Two Speed Doors, Add	913.08	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional Stop, Add	29,584.66	
For 2 Stops, Deduct	-16,941.96	
For Custom Plastic Laminated Cab Interiors, Add	5,315.50	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,441.70	
For Stainless Steel Cab Interior, Add	9,567.90	
For Well Hole Drilling (12" Diameter Hole), Add Per VLF	319.66	
Note: Includes Labor and Equipment.		
For 12" PVC Liner, Add Per LF	61.23	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For 12" Steel Liner, Add Per LF	95.68	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Removal Of Existing Stop, Add	9,010.21	
For Removal Of Existing Elevator, Add	33,788.31	
For Each Additional 50 FPM, Add	18,261.60	
For Class "C-1" Loading, Add	11,778.08	
For Class "C-2" Loading, Add	14,139.23	
For Class "C-3" Loading, Add	19,342.04	
<b>14 24 13 00-0011 Hydraulic Elevators Piston Drilling (14 24 13)</b>		
14 24 13 00-0012 VLF Up To 6" Diameter Piston Drilling .....	98.93	
Note: Includes casing.		
14 24 13 00-0013 VLF 8" To 10" Diameter Piston Drilling.....	118.06	
Note: Includes casing.		
<b>14 24 23 Hydraulic Passenger Elevators (14 24)</b>		
<b>14 24 23 00-0001 Hydraulic Passenger Elevators (14 24 23)</b>		
Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings.		
14 24 23 00-0002 EA Hydraulic Passenger Elevator, 2,100 LB x 100 FPM, 3 Stops, 3 Openings.....	160,707.87	
For Each Additional Stop, Add	28,062.86	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
For Stainless Steel Cab Interior, Add	8,504.80	
For Well Hole Drilling (12" Diameter Hole), Add Per VLF	319.66	
Note: Includes Labor and Equipment.		
For 12" PVC Liner, Add Per LF	61.23	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For 12" Steel Liner, Add Per LF	95.68	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	6,277.42	
For Removal Of Existing Elevator, Add	22,525.54	
For Removal Of Existing Stop, Add	4,505.11	
For 2 Stops, Deduct	-10,000.00	
14 24 23 00-0003 EA Hydraulic Passenger Elevator, 2,500 LB x 100 FPM, 3 Stops, 3 Openings.....	163,751.47	
For Each Additional Stop, Add	28,062.86	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
For Stainless Steel Cab Interior, Add	8,504.80	
For Well Hole Drilling (12" Diameter Hole), Add Per VLF	319.66	
Note: Includes Labor and Equipment.		
For 12" PVC Liner, Add Per LF	61.23	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For 12" Steel Liner, Add Per LF	95.68	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	6,277.42	
For Removal Of Existing Elevator, Add	22,525.54	
For Removal Of Existing Stop, Add	4,505.11	
For 2 Stops, Deduct	-10,000.00	
14 24 23 00-0004 EA Hydraulic Passenger Elevator, 3,000 LB x 100 FPM, 3 Stops, 3 Openings.....	165,843.95	
For Each Additional Stop, Add	28,062.86	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	4,252.40	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,378.60	
For Stainless Steel Cab Interior, Add	8,504.80	
For Well Hole Drilling (12" Diameter Hole), Add Per VLF	319.66	
Note: Includes Labor and Equipment.		
For 12" PVC Liner, Add Per LF	61.23	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For 12" Steel Liner, Add Per LF	95.68	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	6,277.42	
For Removal Of Existing Elevator, Add	22,525.54	
For Removal Of Existing Stop, Add	4,505.11	
For 2 Stops, Deduct	-10,000.00	





		<b>Conveying Equipment</b>	<b>14</b>
		Elevators	14 20
		Hydraulic Elevators	14 24

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 23 00-0005	EA		Hydraulic Passenger Elevator, 3,500 LB x 100 FPM, 3 Stops, 3 Openings.....	173,613.03	
			<i>For Each Additional Stop, Add</i>	28,062.86	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,252.40	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,378.60	
			<i>For Stainless Steel Cab Interior, Add</i>	8,504.80	
			<i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>	319.66	
			<i>Note: Includes Labor and Equipment.</i>		
			<i>For 12" PVC Liner, Add Per LF</i>	61.23	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For 12" Steel Liner, Add Per LF</i>	95.68	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For Each Additional 50 FPM, Add</i>	6,277.42	
			<i>For Removal Of Existing Elevator, Add</i>	22,525.54	
			<i>For Removal Of Existing Stop, Add</i>	4,505.11	
			<i>For 2 Stops, Deduct</i>	-10,000.00	
14 24 23 00-0006	EA		Hydraulic Passenger Elevator, 4,000 LB x 100 FPM, 3 Stops, 3 Openings.....	176,816.55	
			<i>For Each Additional Stop, Add</i>	28,062.86	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,252.40	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,378.60	
			<i>For Stainless Steel Cab Interior, Add</i>	8,504.80	
			<i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>	319.66	
			<i>Note: Includes Labor and Equipment.</i>		
			<i>For 12" PVC Liner, Add Per LF</i>	61.23	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For 12" Steel Liner, Add Per LF</i>	95.68	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For Each Additional 50 FPM, Add</i>	6,277.42	
			<i>For Removal Of Existing Elevator, Add</i>	22,525.54	
			<i>For Removal Of Existing Stop, Add</i>	4,505.11	
			<i>For 2 Stops, Deduct</i>	-10,000.00	
14 24 23 00-0007	EA		Hydraulic Passenger Elevator, 4,500 LB x 100 FPM, 3 Stops, 3 Openings.....	181,267.82	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,252.40	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,378.60	
			<i>For Stainless Steel Cab Interior, Add</i>	8,504.80	
			<i>For Each Additional Stop, Add</i>	29,584.66	
			<i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>	319.66	
			<i>Note: Includes Labor and Equipment.</i>		
			<i>For 12" PVC Liner, Add Per LF</i>	61.23	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For 12" Steel Liner, Add Per LF</i>	95.68	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For Each Additional 50 FPM, Add</i>	6,277.42	
			<i>For Removal Of Existing Elevator, Add</i>	22,525.54	
			<i>For Removal Of Existing Stop, Add</i>	4,505.11	
			<i>For 2 Stops, Deduct</i>	-10,000.00	
14 24 23 00-0008	EA		Hydraulic Passenger Elevator, 5,000 LB x 100 FPM, 3 Stops, 3 Openings.....	185,559.52	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Each Opening With Two Speed Doors, Add</i>	913.08	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	4,252.40	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	6,378.60	
			<i>For Stainless Steel Cab Interior, Add</i>	8,504.80	
			<i>For Each Additional Stop, Add</i>	29,584.66	
			<i>For Well Hole Drilling (12" Diameter Hole), Add Per VLF</i>	319.66	
			<i>Note: Includes Labor and Equipment.</i>		
			<i>For 12" PVC Liner, Add Per LF</i>	61.23	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For 12" Steel Liner, Add Per LF</i>	95.68	
			<i>Note: Liner for Hydraulic Elevator Well Hole if necessary.</i>		
			<i>For Each Additional 50 FPM, Add</i>	6,277.42	
			<i>For Removal Of Existing Elevator, Add</i>	22,525.54	
			<i>For Removal Of Existing Stop, Add</i>	4,505.11	
			<i>For 2 Stops, Deduct</i>	-10,000.00	
14 24 23 00-0009			<b>Twin Holeless Hydraulic Passenger Elevator</b> <small>(14 24 23)</small>		
			<i>Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 2 stops (10 feet floor to floor) and 2 openings.</i>		
14 24 23 00-0010	EA		Twin Holeless Hydraulic Passenger Elevator, 2,100 LB x 100 FPM.....	139,249.04	
			<i>For Each Opening With Bonderized Steel Door, Add</i>	304.36	
			<i>For Each Opening With Stainless Steel Doors, Add</i>	760.90	
			<i>For Custom Plastic Laminated Cab Interiors, Add</i>	3,720.85	
			<i>For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add</i>	5,315.50	
			<i>For Stainless Steel Cab Interior, Add</i>	6,378.60	
			<i>For Removal Of Existing Elevator, Add</i>	22,525.54	
			<i>For Each Additional Stop, Add</i>	29,752.28	
			<i>For An Additional 25 FPM, Add</i>	2,564.23	

**14 Conveying Equipment**

**14 20 Elevators**

**14 24 Hydraulic Elevators**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 23 00-0011 EA Twin Holeless Hydraulic Passenger Elevator, 2,500 LB x 100 FPM.....	144,523.11	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	3,720.85	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	5,315.50	
For Stainless Steel Cab Interior, Add	6,378.60	
For Removal Of Existing Elevator, Add	22,525.54	
For Each Additional Stop, Add	29,752.28	
For An Additional 25 FPM, Add	2,564.23	
14 24 23 00-0012 EA Twin Holeless Hydraulic Passenger Elevator, 3,000 LB x 100 FPM.....	149,586.23	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	3,720.85	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	5,315.50	
For Stainless Steel Cab Interior, Add	6,378.60	
For Removal Of Existing Elevator, Add	22,525.54	
For Each Additional Stop, Add	29,752.28	
For An Additional 25 FPM, Add	2,564.23	
14 24 23 00-0013 EA Twin Holeless Hydraulic Passenger Elevator, 3,500 LB x 100 FPM.....	174,160.62	
For Each Opening With Bonderized Steel Door, Add	304.36	
For Each Opening With Stainless Steel Doors, Add	760.90	
For Custom Plastic Laminated Cab Interiors, Add	3,720.85	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	5,315.50	
For Stainless Steel Cab Interior, Add	6,378.60	
For Removal Of Existing Elevator, Add	22,525.54	
For Each Additional Stop, Add	29,752.28	
For An Additional 25 FPM, Add	2,564.23	

**14 26 Limited-Use/Limited-Application Elevators (14 20)**

**14 26 00 00-0001 Small Elevators (LULA) (14 26)**

14 26 00 00-0002 EA Small Elevators (LULA), 1,400 LB x 30 FPM, 2 Stops, 2 Openings.....	92,938.78	
Note: 3 phase, automatic operation, includes cab interior, telephone box and telephone. 2 stops and 12 feet of rise.		
For Each Additional Stop, Add	18,451.76	
For Removal Of Existing Elevator, Add	6,757.66	

**14 27 Custom Elevator Cabs and Doors (14 20)**

**14 27 13 Custom Elevator Cab Finishes (14 27)**

**14 27 13 00-0001 Custom Elevator Cab Finish Options (14 27 13)**

14 27 13 00-0002 EA Intercom Service.....	1,451.98	
Note: Review elevator task modifiers for additional cab finishes.		

**14 27 13 00-0003 Custom Elevator Hall Finish Options (14 27 13)**

14 27 13 00-0004 EA Stainless Steel Door, Hall Finishes.....	1,846.85	
14 27 13 00-0005 EA Stainless Steel Frames, Hall Finishes.....	1,940.76	
14 27 13 00-0006 EA Hall Lantern, Signal Devices.....	957.70	

**14 27 16 Custom Elevator Doors (14 27)**

**14 27 16 00-0001 Custom Elevator Door Options (14 27 16)**

14 27 16 00-0002 EA Center Opening, 1 Speed Doors.....	3,724.38	
14 27 16 00-0003 EA Center Opening, 2 Speed Doors.....	4,788.66	
14 27 16 00-0004 EA Rear Opening Doors (Opposite Front).....	6,698.11	
14 27 16 00-0005 EA Side Opening, 2 Speed Doors.....	10,673.53	
14 27 16 00-0006 EA Bi-Parting Doors.....	11,238.52	
14 27 16 00-0007 EA Power Operated Door And Gate.....	34,965.82	

**14 28 Elevator Equipment and Controls (14 20)**

**14 28 16 Elevator Controls (14 28)**

**14 28 16 00-0001 Passenger Or Freight Elevator Options (14 28 16)**

14 28 16 00-0002 EA 2 Car Group, Elevator Automatic Controls.....	9,072.55	1,086.20
14 28 16 00-0003 EA 3 Car Group, Elevator Automatic Controls.....	13,746.47	1,628.14
14 28 16 00-0004 EA 4 Car Group, Elevator Automatic Controls.....	21,318.87	2,170.84
14 28 16 00-0005 EA 5 Car Group, Elevator Automatic Controls.....	30,040.45	2,755.28
14 28 16 00-0006 EA 6 Car Group, Elevator Automatic Controls.....	41,989.48	3,256.25
14 28 16 00-0007 EA Duplex Care Selective Collective.....	8,421.30	
14 28 16 00-0008 EA Automatic Emergency Power Switching.....	5,009.33	
14 28 16 00-0009 EA Manual Emergency Power Switching.....	951.44	
14 28 16 00-0010 EA Up To 3, Position Indicator, Signal Devices.....	225.91	
14 28 16 00-0011 EA >3, Position Indicator, Signal Devices.....	189.34	
14 28 16 00-0012 EA High Speed Heavy Duty Door Opener.....	3,443.28	
14 28 16 00-0013 EA Variable Voltage, Overhead Gearless Machine, Minimum.....	57,150.70	
14 28 16 00-0014 EA Variable Voltage, Overhead Gearless Machine, Average.....	93,284.46	



<b>Conveying Equipment</b>	<b>14</b>	<b>14</b>
Elevators	14 20	
Elevator Equipment and Controls	14 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 28 16 00-0015	EA		Variable Voltage, Overhead Gearless Machine, Maximum .....	129,277.42	
14 28 16 00-0016	EA		Variable Voltage, Basement Installed Geared Machine, Minimum .....	23,854.50	
14 28 16 00-0017	EA		Variable Voltage, Basement Installed Geared Machine, Average .....	29,614.16	
14 28 16 00-0018	EA		Variable Voltage, Basement Installed Geared Machine, Maximum .....	32,869.62	

## 14 30 Escalators and Moving Walks <sup>(14)</sup>

### 14 31 Escalators <sup>(14 30)</sup>

#### 14 31 00 00-0001 Stainless Steel Escalator Construction <sup>(14 31)</sup>

Note: Prices are medians and are based on each moving stairway. Complete, includes all standard accessories and single microprocessor controlled electronic display sign packages, LED.

14 31 00 00-0002	EA		Escalators Stainless Steel, 32" Wide x 12' Floor To Floor Height.....	151,124.26	13,874.56
14 31 00 00-0003	EA		Escalators Stainless Steel, 32" Wide x 15' Floor To Floor Height.....	167,654.59	16,397.22
14 31 00 00-0004	EA		Escalators Stainless Steel, 32" Wide x 18' Floor To Floor Height.....	182,639.23	18,919.86
14 31 00 00-0005	EA		Escalators Stainless Steel, 32" Wide x 22' Floor To Floor Height.....	202,120.47	22,703.84
14 31 00 00-0006	EA		Escalators Stainless Steel, 32" Wide x 25' Floor To Floor Height.....	223,116.17	25,226.48
14 31 00 00-0007	EA		Escalators Stainless Steel, 36" Wide x 12' Floor To Floor Height.....	159,773.55	14,757.50
14 31 00 00-0008	EA		Escalators Stainless Steel, 36" Wide x 15' Floor To Floor Height.....	177,603.61	17,658.54
14 31 00 00-0009	EA		Escalators Stainless Steel, 36" Wide x 18' Floor To Floor Height.....	192,582.56	20,181.19
14 31 00 00-0010	EA		Escalators Stainless Steel, 36" Wide x 22' Floor To Floor Height.....	217,324.17	25,352.61
14 31 00 00-0011	EA		Escalators Stainless Steel, 36" Wide x 25' Floor To Floor Height.....	234,047.63	27,244.61
14 31 00 00-0012	EA		Escalators Stainless Steel, 48" Wide x 12' Floor To Floor Height.....	168,843.37	15,640.42
14 31 00 00-0013	EA		Escalators Stainless Steel, 48" Wide x 15' Floor To Floor Height.....	188,288.55	18,919.86
14 31 00 00-0014	EA		Escalators Stainless Steel, 48" Wide x 18' Floor To Floor Height.....	202,941.22	21,442.51
14 31 00 00-0015	EA		Escalators Stainless Steel, 48" Wide x 22' Floor To Floor Height.....	233,608.76	26,740.08
14 31 00 00-0016	EA		Escalators Stainless Steel, 48" Wide x 25' Floor To Floor Height.....	247,895.59	29,262.72
14 31 00 00-0017	EA		Escalator Fire Shutter Fusible Link.....	22,055.17	504.53

### 14 32 Moving Walks <sup>(14 30)</sup>

#### 14 32 00 00-0001 Moving Sidewalks <sup>(14 32)</sup>

Note: Prices are medians. Includes safety rails.

14 32 00 00-0002	LF		Moving Sidewalks, 28" Wide.....	1,619.04	302.71
			For Each LF Of Ramp Or Sloped Sections, Add	251.16	
14 32 00 00-0003	LF		Moving Sidewalks, 36" Wide.....	2,147.18	309.02
			For Each LF Of Ramp Or Sloped Sections, Add	355.28	
14 32 00 00-0004	LF		Moving Sidewalks, 48" Wide.....	2,416.97	321.64
			For Each LF Of Ramp Or Sloped Sections, Add	406.21	
14 32 00 00-0005	LF		Moving Sidewalks, 54" Wide.....	2,775.60	348.88
			For Each LF Of Ramp Or Sloped Sections, Add	471.39	

## 14 40 Lifts <sup>(14)</sup>

### 14 42 Wheelchair Lifts <sup>(14 40)</sup>

#### 14 42 13 Inclined Wheelchair Lifts <sup>(14 42)</sup>

##### 14 42 13 00-0001 Chair Lift-Stair Climber <sup>(14 42 13)</sup>

Note: Includes landing, rails, lifting device and gates.

14 42 13 00-0002	EA		Chair Lift, Stair Climber Per Story, Single Passenger, Indoor, 300 LB Capacity.....	7,772.68	1,094.37
			Note: Includes top and bottom call button, safety chair, track, and power unit.		

#### 14 42 16 Vertical Wheelchair Lifts <sup>(14 42)</sup>

##### 14 42 16 00-0001 Wheelchair Lift (Shorty) <sup>(14 42 16)</sup>

14 42 16 00-0002	EA		36" Vertical Travel Wheelchair Platform Scissor Lift.....	9,059.00	766.07
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			For Accordion Safety Skirt, Add	1,002.44	
			For Removable Handrails, Add	102.16	
			For Power Operated Ramp, Add	893.90	
14 42 16 00-0003	EA		42" Vertical Travel Wheelchair Platform Scissor Lift.....	11,144.97	957.58
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			For 2,000 LB Capacity, Add	600.19	
			For 3,000 LB Capacity, Add	1,002.44	
			For 4,000 LB Capacity, Add	1,500.48	
			For Accordion Safety Skirt, Add	1,002.44	
			For Removable Handrails, Add	102.16	
			For Power Operated Ramp, Add	893.90	
14 42 16 00-0004	EA		70" Vertical Travel Wheelchair Platform Scissor Lift.....	13,306.62	1,244.85
			Note: 1000 LB capacity. Includes handrails and manual ramp.		
			For 2,000 LB Capacity, Add	600.19	
			For 3,000 LB Capacity, Add	1,002.44	
			For 4,000 LB Capacity, Add	1,500.48	
			For Accordion Safety Skirt, Add	1,002.44	
			For Removable Handrails, Add	102.16	
			For Power Operated Ramp, Add	893.90	

**14 Conveying Equipment**

**14 40 Lifts**

**14 42 Wheelchair Lifts**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 42 16 00-0005 EA 84" Vertical Travel Wheelchair Platform Scissor Lift..... Note: 1000 LB capacity. Includes handrails and manual ramp.	14,958.40	1,436.36
For 2,000 LB Capacity, Add	600.19	
For 3,000 LB Capacity, Add	1,002.44	
For 4,000 LB Capacity, Add	1,500.48	
For Accordion Safety Skirt, Add	1,002.44	
For Removable Handrails, Add	102.16	
For Power Operated Ramp, Add	893.90	
14 42 16 00-0006 EA 18' Travel Wheelchair Incline Lift ..... Note: 500 LB capacity, interior installation.	15,371.85	683.98

**14 90 Other Conveying Equipment** <sup>(14)</sup>

**14 91 Facility Chutes** <sup>(14 90)</sup>

**14 91 82 Trash Chutes** <sup>(14 91)</sup>

**14 91 82 00-0001 Trash Chutes** <sup>(14 91 82)</sup>

14 91 82 00-0002 LF 18" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	40.45	5.75
For Aluminum, Add	2.95	
For Stainless Steel, Add	10.31	
14 91 82 00-0003 LF 24" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	51.84	5.75
For Aluminum, Add	3.99	
For Stainless Steel, Add	13.96	
14 91 82 00-0004 LF 30" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	57.13	7.19
For Aluminum, Add	4.42	
For Stainless Steel, Add	15.47	
14 91 82 00-0005 LF 36" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports.....	86.84	7.19
For Aluminum, Add	7.28	
For Stainless Steel, Add	25.49	
14 91 82 00-0006 EA Trash Chutes, Hopper.....	783.10	40.25
For Aluminum, Add	70.21	
For Stainless Steel, Add	245.73	
14 91 82 00-0007 EA Trash Chutes, Skylight.....	402.69	79.06
For Aluminum, Add	24.42	
For Stainless Steel, Add	85.47	
14 91 82 00-0008 EA Trash Chutes, Sprinkler Unit At Top.....	289.10	86.24
For Aluminum, Add	10.68	
For Stainless Steel, Add	37.39	
14 91 82 00-0009 EA Trash Chutes, Sprinkler Unit At Intake Hopper.....	79.07	30.18
For Aluminum, Add	1.83	
For Stainless Steel, Add	6.41	
14 91 82 00-0010 EA Refuse Type Bottom Storage Hopper Unit.....	679.61	107.80
For Aluminum, Add	45.18	
For Stainless Steel, Add	158.12	
14 91 82 00-0011 EA Hopper Doors.....	1,488.32	70.55

**14 92 Pneumatic Tube Systems** <sup>(14 90)</sup>

**14 92 00 00-0001 Pneumatic Message Tube Station** <sup>(14 92)</sup>

Note: Twin tube, two or more stations, conventional

14 92 00 00-0002 LF 2-1/2" Tube With Bracketing.....	50.72	16.71
14 92 00 00-0003 LF 3" Tube With Bracketing.....	61.24	22.49
14 92 00 00-0004 LF 4" Tube With Bracketing.....	68.68	20.57
14 92 00 00-0005 LF 6" Tube With Bracketing.....	83.37	25.70
14 92 00 00-0006 LF 4" x 7" Oval Tube With Bracketing.....	87.22	27.64
14 92 00 00-0007 EA Blower Assembly.....	7,673.44	514.08
14 92 00 00-0008 EA Receiving Station, Round Or Oval.....	728.78	136.88
14 92 00 00-0009 EA Multi-Sided Dispatching Station, 3 Carrier.....	2,615.11	192.79
14 92 00 00-0010 EA Laboratory Receiving Station, Round Or Oval.....	1,835.26	173.51
14 92 00 00-0011 EA 2-Way Diverter Station.....	3,271.52	192.79
14 92 00 00-0012 EA 3-Way Diverter Station.....	4,184.61	224.91
14 92 00 00-0013 EA 4-Way Diverter Station.....	5,029.76	257.04

**END OF SECTION 14**



<b>Fire Suppression</b>	<b>21</b>	<b>21</b>
<b>Operation and Maintenance of Fire Suppression</b>	<b>21 01</b>	
<b>Operation and Maintenance of Water-Based Fire-Suppression Systems</b>	<b>21 01 10</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 21 Fire Suppression

### 21 01 Operation and Maintenance of Fire Suppression <sup>(21)</sup>

#### 21 01 10 Operation and Maintenance of Water-Based Fire-Suppression Systems <sup>(21 01)</sup>

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

##### 21 01 10 91 Water-Based Fire-Suppression Systems Restoration <sup>(21 01 10)</sup>

21 01 10 91-0001	EA	Relocate Sprinkler Head And Branch Piping <sup>(21 01 10 91)</sup> See CSI section 21 13 13 00-0024 for new wet pipe sprinkler heads (when required).	
21 01 10 91-0002	EA	Relocate 1 Existing Sprinkler Head And Branch Piping..... Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.	717.48
21 01 10 91-0003	EA	Relocate 2 To 4 Existing Sprinkler Heads And Branch Piping..... Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.	430.49
21 01 10 91-0004	EA	Relocate >4 To 10 Existing Sprinkler Heads And Branch Piping..... Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.	172.20
21 01 10 91-0005	EA	Relocate >10 Existing Sprinkler Heads And Branch Piping..... Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.	86.09

##### 21 01 10 91-0006 Purge And Refill System Sprinkler Piping <sup>(21 01 10 91)</sup>

Note: Includes shutting off valve, draining pipe and collection of liquid, refilling with liquid and bleeding of air from system.

21 01 10 91-0007	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....	504.00
21 01 10 91-0008	EA	>100 To 250', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....	719.82
21 01 10 91-0009	EA	>250 To 500', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....	862.49
21 01 10 91-0010	EA	>500 To 1,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....	1,078.11
21 01 10 91-0011	EA	>1,000 To 2,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....	1,401.55
21 01 10 91-0012	LF	>2,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System (For Sprinkler Upgrades).....	0.70
21 01 10 91-0013	EA	Up To 100', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	705.62
21 01 10 91-0014	EA	>100 To 250', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	1,007.76
21 01 10 91-0015	EA	>250 To 500', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	1,207.49
21 01 10 91-0016	EA	>500 To 1,000', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	1,509.36
21 01 10 91-0017	EA	>1,000 To 2,000', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	1,962.17
21 01 10 91-0018	LF	>2,000', >1-1/2" To 3" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	0.99
21 01 10 91-0019	EA	Up To 100', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	970.21
21 01 10 91-0020	EA	>100 To 250', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	1,385.67
21 01 10 91-0021	EA	>250 To 500', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	1,660.29
21 01 10 91-0022	EA	>500 To 1,000', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	2,075.36
21 01 10 91-0023	EA	>1,000 To 2,000', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	2,697.98
21 01 10 91-0024	LF	>2,000', >3" To 6" Diameter Branch Piping, Purge Liquid System (For Sprinkler Upgrades).....	1.35
21 01 10 91-0025	EA	Up To 100', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....	1,309.79
21 01 10 91-0026	EA	>100 To 250', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....	1,870.64
21 01 10 91-0027	EA	>250 To 500', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....	1,985.77
21 01 10 91-0028	EA	>500 To 1,000', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....	2,482.21
21 01 10 91-0029	EA	>1,000 To 2,000', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....	3,226.87
21 01 10 91-0030	LF	>2,000', >6" To 10" Diameter Main Piping, Purge Liquid System (For Sprinkler Upgrades).....	1.61

#### 21 01 30 Operation and Maintenance of Fire-Suppression Equipment <sup>(21 01)</sup>

##### 21 01 30 91 Fire-Suppression Equipment Restoration <sup>(21 01 30)</sup>

21 01 30 91-0001	EA	Inspection And Recharge <sup>(21 01 30 91)</sup>	
21 01 30 91-0002	EA	Inspection, CO2, Carbon Dioxide.....	308.52
21 01 30 91-0003	LB	Refill/Recharge, CO2, Carbon Dioxide.....	2.89
21 01 30 91-0004	EA	Inspection, Halon 1301.....	308.52
21 01 30 91-0005	LB	Refill/Recharge, Halon 1301.....	69.37
21 01 30 91-0006	EA	Inspection, WC, Wet Chemical.....	186.54
21 01 30 91-0007	GAL	Refill/Recharge, WC, Wet Chemical.....	65.04
21 01 30 91-0008	EA	Inspection, DC, Dry Chemical.....	186.54
21 01 30 91-0009	LB	Refill/Recharge, DC, Dry Chemical.....	5.78
21 01 30 91-0010	EA	Hydrostatic Testing, All Sizes, All Agents..... See CSI section 23 05 93 00-0046 for testing existing piping systems.	57.40
21 01 30 91-0011	EA	Disarm/Arm System.....	100.45

### 21 05 Common Work Results for Fire Suppression <sup>(21)</sup>

#### 21 05 13 Common Motor Requirements for Fire-Suppression Equipment <sup>(21 05)</sup>

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

#### 21 05 16 Expansion Fittings and Loops for Fire-Suppression Piping <sup>(21 05)</sup>

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

**21 Fire Suppression****21 05 Common Work Results for Fire Suppression****21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping** (21 05)

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

**21 05 19 Meters and Gages for Fire-Suppression Systems** (21 05)

See CSI section 33 19 00 00-0000 for water utility service metering.

**21 05 19 00-0001 Fire Sprinkler System Water Pressure Gauge** (21 05 19)

21 05 19 00-0002	EA	2" Diameter Dial, 0-200 PSI, Water Pressure Gauge .....	56.43	16.90
		Note: For fire sprinkler systems		
21 05 19 00-0003	EA	2-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge .....	58.29	16.90
		Note: For fire sprinkler systems		
21 05 19 00-0004	EA	3" Diameter Dial, 0-300 PSI, Water Pressure Gauge .....	66.97	16.90
		Note: For fire sprinkler systems		
21 05 19 00-0005	EA	3-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge .....	70.53	16.90
		Note: For fire sprinkler systems		
21 05 19 00-0006	EA	4" Diameter Dial, 0-300 PSI, Water Pressure Gauge .....	74.10	16.90
		Note: For fire sprinkler systems		

**21 05 19 00-0007 Fire Service Meter Cast Iron Housing** (21 05 19)

21 05 19 00-0008	EA	3" Diameter, 0 - 600 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	5,335.53	239.67
		For >10 To 25, Deduct	-266.78	
		For >25, Deduct	-770.33	
21 05 19 00-0009	EA	4" Diameter, 0 - 1,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	10,848.63	401.80
		For >10 To 25, Deduct	-542.43	
		For >25, Deduct	-1,576.94	
21 05 19 00-0010	EA	6" Diameter, 0 - 2,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	14,627.66	510.84
		For >10 To 25, Deduct	-731.38	
		For >25, Deduct	-2,130.06	
21 05 19 00-0011	EA	8" Diameter, 0 - 4,000 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	19,072.45	652.74
		For >10 To 25, Deduct	-953.62	
		For >25, Deduct	-2,779.78	
21 05 19 00-0012	EA	10" Diameter, 0 - 6,200 GPM Fire Service Meter Flanged, With Cast Iron Housing.....	26,836.18	794.65
		For >10 To 25, Deduct	-1,341.81	
		For >25, Deduct	-3,926.10	

**21 05 23 General-Duty Valves for Water-Based Fire-Suppression Piping**(21 05)  
See CSI section 22 05 23 00-0000 for additional valves, 23 05 23 00-0000 for additional valves.**21 05 23 00-0001 Globe Valves** (21 05 23)**21 05 23 00-0002 Threaded, 125 LB, Bronze Body, Angle Globe Valves** (21 05 23 00-0001)

Note: Non-rising stem

21 05 23 00-0003	EA	1/2" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD) .....	75.26	15.31
21 05 23 00-0004	EA	3/4" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD) .....	96.77	16.08
21 05 23 00-0005	EA	1" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD) .....	130.57	16.08
21 05 23 00-0006	EA	1-1/4" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD) .....	191.88	20.37
21 05 23 00-0007	EA	1-1/2" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD) .....	225.24	23.58
21 05 23 00-0008	EA	2" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD) .....	266.75	27.87

**21 05 23 00-0009 Butterfly Valves** (21 05 23)**21 05 23 00-0010 Grooved End Gear Operated Butterfly Valves** (21 05 23 00-0009)

21 05 23 00-0011	EA	2-1/2" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N) .....	515.66	24.96
21 05 23 00-0012	EA	3" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N) .....	567.33	29.89
21 05 23 00-0013	EA	4" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N) .....	597.89	39.34
21 05 23 00-0014	EA	6" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N) .....	852.31	64.43
21 05 23 00-0015	EA	8" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N) .....	1,226.13	90.65

**21 05 23 00-0016 Grooved End, Wafer Type, Ductile Iron, Gear Operated Butterfly Valves** (21 05 23 00-0009)

21 05 23 00-0017	EA	2" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	516.11	20.16
21 05 23 00-0018	EA	2-1/2" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	527.23	24.96
21 05 23 00-0019	EA	3" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	582.75	29.89
21 05 23 00-0020	EA	4" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	607.53	39.34
21 05 23 00-0021	EA	6" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	850.38	64.43
21 05 23 00-0022	EA	8" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	1,262.76	90.65
21 05 23 00-0023	EA	10" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510).....	1,948.69	122.51

**21 05 23 00-0024 Check Valves** (21 05 23)**21 05 23 00-0025 Bronze Body, Threaded, 150 LB, Swing Check Valves** (21 05 23 00-0024)

21 05 23 00-0026	EA	1/2" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y) .....	234.85	15.31
21 05 23 00-0027	EA	3/4" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y) .....	279.44	16.08
21 05 23 00-0028	EA	1" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y) .....	379.67	16.08
21 05 23 00-0029	EA	1-1/4" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y) .....	504.33	20.37
21 05 23 00-0030	EA	1-1/2" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y) .....	657.16	23.58
21 05 23 00-0031	EA	2" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y) .....	951.53	27.87



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>21 05 23 00-0032 Flanged, Iron Body, Bronze Trim, Swing Check Valves</b> <small>(21 05 23 00-0024)</small>						
	21 05 23 00-0033	EA		2-1/2" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	797.35	204.42
	21 05 23 00-0034	EA		3" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	909.84	239.67
	21 05 23 00-0035	EA		4" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	1,312.33	401.80
	21 05 23 00-0036	EA		6" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	1,856.67	449.69
	21 05 23 00-0037	EA		8" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	2,866.41	574.61
	21 05 23 00-0038	EA		10" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	4,424.16	699.52
	21 05 23 00-0039	EA		12" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126).....	6,106.59	849.42
<b>21 05 23 00-0040 Iron Body Wafer Type Check Valve</b> <small>(21 05 23 00-0024)</small>						
	21 05 23 00-0041	EA		2-1/2" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	650.94	204.51
	21 05 23 00-0042	EA		3" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	752.19	239.77
	21 05 23 00-0043	EA		4" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	968.90	401.96
	21 05 23 00-0044	EA		6" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	1,526.47	564.16
	21 05 23 00-0045	EA		8" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	2,130.80	648.78
	21 05 23 00-0046	EA		10" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	3,022.45	70.52
	21 05 23 00-0047	EA		12" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W).....	4,052.33	959.06
<b>21 05 23 00-0048 Grooved End, Check Valves</b> <small>(21 05 23 00-0024)</small>						
	21 05 23 00-0049	EA		2-1/2" Check Valve, Grooved (Victaulic FireLock® 717).....	458.97	25.38
	21 05 23 00-0050	EA		3" Check Valve, Grooved (Victaulic FireLock® 717).....	465.83	30.03
	21 05 23 00-0051	EA		4" Check Valve, Grooved (Victaulic FireLock® 717).....	496.97	39.48
	21 05 23 00-0052	EA		6" Check Valve, Grooved (Victaulic FireLock® 717).....	1,459.74	64.43
	21 05 23 00-0053	EA		8" Check Valve, Grooved (Victaulic FireLock® 717).....	2,028.56	90.65
<b>21 05 23 00-0054 Gate Valves</b> <small>(21 05 23)</small>						
<b>21 05 23 00-0055 Threaded, Bronze Gate Valves</b> <small>(21 05 23 00-0054)</small>						
Note: Class 175						
	21 05 23 00-0056	EA		1" Threaded, Bronze Gate Valve (Crane 459).....	714.21	19.14
	21 05 23 00-0057	EA		1-1/4" Threaded, Bronze Gate Valve (Crane 459).....	874.04	20.37
	21 05 23 00-0058	EA		1-1/2" Threaded, Bronze Gate Valve (Crane 459).....	1,039.00	23.58
	21 05 23 00-0059	EA		2" Threaded, Bronze Gate Valve (Crane 459).....	1,294.53	27.87
<b>21 05 23 00-0060 Flanged, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(21 05 23 00-0054)</small>						
Note: Class 175						
	21 05 23 00-0061	EA		2-1/2" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	1,043.00	204.42
	21 05 23 00-0062	EA		3" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	1,227.80	239.67
	21 05 23 00-0063	EA		4" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	1,748.73	401.80
	21 05 23 00-0064	EA		6" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	2,501.59	449.69
	21 05 23 00-0065	EA		8" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	3,648.22	574.61
	21 05 23 00-0066	EA		10" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	6,509.58	699.52
	21 05 23 00-0067	EA		12" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	8,807.76	849.42
<b>21 05 23 00-0068 Flanged, Resilient Wedge, Ductile Iron Body, Gate Valves</b> <small>(21 05 23 00-0054)</small>						
Note: Class 175						
	21 05 23 00-0069	EA		2-1/2" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	1,717.04	204.42
	21 05 23 00-0070	EA		3" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	2,000.72	239.67
	21 05 23 00-0071	EA		4" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	2,451.97	401.80
	21 05 23 00-0072	EA		6" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	3,094.84	449.69
	21 05 23 00-0073	EA		8" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	4,580.10	574.61
	21 05 23 00-0074	EA		10" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	6,569.14	699.52
	21 05 23 00-0075	EA		12" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	8,474.54	849.42
<b>21 05 23 00-0076 Flanged, Resilient Wedge, Ductile Iron Body, Gate Valves</b> <small>(21 05 23 00-0054)</small>						
Note: Class 250. Square operating nut actuation type.						
	21 05 23 00-0077	EA		3" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	1,636.82	239.67
	21 05 23 00-0078	EA		4" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	2,100.84	401.80
	21 05 23 00-0079	EA		6" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	2,632.62	449.69
	21 05 23 00-0080	EA		8" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	3,931.46	574.61
	21 05 23 00-0081	EA		10" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	5,875.81	699.52

**21 Fire Suppression****21 05 Common Work Results for Fire Suppression****21 05 23 General-Duty Valves for Water-Based Fire-Suppression Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 05 23 00-0082 EA 12" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	7,381.55	849.42
<b>21 05 23 00-0083 Ball Valves (21 05 23)</b>		
<b>21 05 23 00-0084 Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728) (21 05 23 00-0083)</b>		
21 05 23 00-0085 EA 1" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728).....	469.78	19.14
21 05 23 00-0086 EA 1-1/4" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728).....	516.09	20.37
21 05 23 00-0087 EA 1-1/2" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728).....	609.49	23.58
21 05 23 00-0088 EA 2" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728).....	732.78	27.87
<b>21 05 23 00-0089 TESTanDRAIN® Valve (21 05 23)</b>		
21 05 23 00-0090 EA 1/4" 3-Way Globe Valve With 1/4" NPT Test Port (AGF 7600).....	250.26	19.47
21 05 23 00-0091 EA 1" Threaded TESTanDRAIN® Valve (AGF 1000).....	283.71	23.53
21 05 23 00-0092 EA 1-1/4" Threaded TESTanDRAIN® Valve (AGF 1000).....	347.60	29.75
21 05 23 00-0093 EA 1-1/2" Threaded TESTanDRAIN® Valve (AGF 1000).....	534.40	34.35
21 05 23 00-0094 EA 2" Threaded TESTanDRAIN® Valve (AGF 1000).....	564.75	40.57
21 05 23 00-0095 EA 1" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	392.36	23.53
21 05 23 00-0096 EA 1-1/4" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	455.20	29.75
21 05 23 00-0097 EA 1-1/2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	645.27	34.35
21 05 23 00-0098 EA 2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	678.57	40.57
<b>21 05 29 Hangers and Supports for Fire-Suppression Piping and Equipment (21 05)</b>		
See CSI section 23 05 29 00-0000 for hangers and supports.		
<b>21 05 33 Heat Tracing for Fire-Suppression Piping (21 05)</b>		
See CSI section 23 83 13 13-0000 for heat tracing cables.		
<b>21 05 48 Vibration and Seismic Controls for Fire-Suppression Piping and Equipment (21 05)</b>		
<b>21 05 48 13 Vibration Controls for Fire-Suppression Piping and Equipment (21 05 48)</b>		
See CSI section 23 05 48 13-0000 for vibration and seismic control.		
<b>21 05 53 Identification for Fire-Suppression Piping and Equipment (21 05)</b>		
See CSI section 23 05 53 00-0000 for identification.		
<b>21 07 Fire-Suppression Systems Insulation (21)</b>		
<b>21 07 16 Fire-Suppression Equipment Insulation (21 07)</b>		
See CSI section 23 07 16 00-0000 for fire-suppression equipment insulation.		
<b>21 07 19 Fire-Suppression Piping Insulation (21 07)</b>		
See CSI section 22 07 19 00-0000 for fire-suppression piping insulation.		
<b>21 10 Water-Based Fire-Suppression Systems (21)</b>		
See CSI section 22 11 16 00-0368 for copper pipe, 22 11 16 00-0912 for CPVC pipe, 23 05 23 00-0037 for OS&Y gate valves, 23 21 13 23-0000 for black steel piping.		
<b>21 11 Facility Fire-Suppression Water-Service Piping (21 10)</b>		
<b>21 11 19 Fire-Department Connections (21 11)</b>		
<b>21 11 19 00-0001 Fire Department Connections (21 11 19)</b>		
21 11 19 00-0002 EA 4" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass.....	1,160.98	435.44
For Polished Chrome, Add	62.67	
21 11 19 00-0003 EA 6" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass.....	1,592.29	544.30
For Polished Chrome, Add	95.92	
21 11 19 00-0004 EA 4" x 3" x 3" Siamese Connection, Polished Brass.....	1,631.86	435.44
For Polished Chrome, Add	121.49	
21 11 19 00-0005 EA 6" x 3" x 3" Siamese Connection, Polished Brass.....	2,144.77	544.30
For Polished Chrome, Add	164.98	
21 11 19 00-0006 EA 6" x 2-1/2" x 2-1/2" x 2-1/2" Siamese Connection, Three Way, Polished Brass.....	2,279.82	544.30
For Polished Chrome, Add	181.86	
21 11 19 00-0007 EA Sidewalk Type Connection With Plug And Chain, Polished Brass.....	1,994.45	576.08
For Polished Chrome, Add	140.25	
21 11 19 00-0008 EA Wall Type Connection With Plug And Chain, Polished Brass.....	1,303.43	435.44
For Polished Chrome, Add	80.47	
<b>21 11 19 00-0009 Wall Type Indicator Post, Wheel Operated (21 11 19)</b>		
See CSI section 33 14 19 00-0159 for adjustable indicator post accessory for ground valves.		
21 11 19 00-0010 EA Wall Type Indicator Post With Wall Flange For Valve (Victaulic 773).....	1,849.69	401.80





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 11 19 00-0011	Upright Indicator Post, Wheel Operated <small>(21 11 19)</small>	7,003.61		
21 11 19 00-0012	EA Upright Indicator Post With Flange For Valve (Victaulic 774) .....	7,003.61		401.80

**21 12 Fire-Suppression Standpipes** (21 10)

See CSI section 23 21 13 23-0000 for black steel pipe.

**21 12 13 Fire-Suppression Hoses and Nozzles** (21 12)

21 12 13 00-0001	Fire Hose <small>(21 12 13)</small>			
21 12 13 00-0002	Fire Hose Without Couplings <small>(21 12 13 00-0001)</small>			
21 12 13 00-0003	LF 1-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings .....	3.57		2.87
21 12 13 00-0004	LF 2-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings .....	4.12		2.87
21 12 13 00-0005	LF 2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings .....	3.79		2.87
21 12 13 00-0006	LF 3" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings .....	4.38		2.87
21 12 13 00-0007	LF 1-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings .....	3.90		2.87
21 12 13 00-0008	LF 2-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings .....	4.72		2.87
21 12 13 00-0009	LF 1-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings .....	3.99		2.87
21 12 13 00-0010	LF 2-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings .....	4.93		2.87

**21 12 13 00-0011 Fire Hose With Aluminum Couplings** (21 12 13 00-0001)

21 12 13 00-0012	LF 1-3/4" Polyester Fire Hose With Rubber Lining With Aluminum Couplings.....	8.72		1.58
21 12 13 00-0013	LF 2-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings.....	10.87		1.86
21 12 13 00-0014	LF 3-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings.....	18.26		1.86

**21 12 13 00-0015 Fire Hose Accessories** (21 12 13 00-0001)

21 12 13 00-0016	EA Hose Coupling With 1-1/2" Pin Lug.....	274.98		47.36
21 12 13 00-0017	EA Hose Coupling With 2-1/2" Pin Lug.....	430.76		53.09
21 12 13 00-0018	EA 1-1/2" x 10" Brass Straight Nozzle.....	103.07		37.31
21 12 13 00-0019	EA 2-1/2" x 12" Brass Straight Nozzle.....	189.83		37.31
21 12 13 00-0020	EA 1-1/2" Brass Fog Type Nozzle.....	152.98		37.31
21 12 13 00-0021	EA 2-1/2" Brass Fog Type Nozzle.....	214.25		37.31
21 12 13 00-0022	EA 1-1/2" Brass 100' Hose Rack.....	366.60		157.84
21 12 13 00-0023	EA 2-1/2" Brass 100' Hose Rack.....	483.42		157.84

**21 12 23 Fire-Suppression Hose Valves** (21 12)

**21 12 23 00-0001 Standpipe Valves** (21 12 23)

21 12 23 00-0002	EA 2-1/2" Fire Department Valve, Polished Brass With Plug And Chain.....	759.04		288.04
	<i>For Polished Chrome, Add</i>	48.42		
21 12 23 00-0003	EA 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass.....	1,141.16		287.91
	<i>For Polished Chrome, Add</i>	105.74		
21 12 23 00-0004	EA 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass.....	1,444.24		311.43
	<i>For Polished Chrome, Add</i>	145.84		
21 12 23 00-0005	EA 3" x 3" x 4" Fire Department Valve, Flush, Polished Brass .....	1,691.80		287.91
	<i>For Polished Chrome, Add</i>	188.34		
21 12 23 00-0006	EA 3" x 3" x 6" Fire Department Valve, Flush, Polished Brass .....	1,974.93		311.43
	<i>For Polished Chrome, Add</i>	225.44		
21 12 23 00-0007	EA 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass.....	1,082.63		287.91
	<i>For Polished Chrome, Add</i>	96.96		
21 12 23 00-0008	EA 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass.....	1,536.01		311.43
	<i>For Polished Chrome, Add</i>	159.61		
21 12 23 00-0009	EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass.....	1,920.06		297.24
	<i>For Polished Chrome, Add</i>	176.37		
21 12 23 00-0010	EA 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass.....	2,704.97		330.23
	<i>For Polished Chrome, Add</i>	264.55		
21 12 23 00-0011	EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass .....	2,051.73		297.24
	<i>For Polished Chrome, Add</i>	192.17		
21 12 23 00-0012	EA 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass .....	2,903.36		330.23
	<i>For Polished Chrome, Add</i>	288.35		
21 12 23 00-0013	EA 2-1/2" x 2-1/2" x 2-1/2" x 2-1/2" 6" Fire Department Valve, Square, Flush, Polished Brass.....	12,881.80		396.22
	<i>For Polished Chrome, Add</i>	1,228.13		

**21 12 23 00-0014 Fire Hose Angle Valves** (21 12 23)

21 12 23 00-0015	EA 1-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve .....	249.34		38.75
21 12 23 00-0016	EA 1-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve.....	294.08		38.75
21 12 23 00-0017	EA 1-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve .....	277.81		38.75
21 12 23 00-0018	EA 1-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve .....	322.55		38.75
21 12 23 00-0019	EA 2-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve .....	441.28		64.58
21 12 23 00-0020	EA 2-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve .....	506.35		64.58
21 12 23 00-0021	EA 2-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve .....	511.78		64.58
21 12 23 00-0022	EA 2-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve .....	576.85		64.58

**21 12 29 Fire-Suppression Fire Hose Equipment** (21 12)

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 12 Fire-Suppression Standpipes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>21 12 29 00-0001 Standpipe And Fire Hose Equipment</b> <small>(21 12 29)</small>		
21 12 29 00-0002 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Manifold Roof Type, Vertical, Polished Brass .....	4,423.37	714.02
21 12 29 00-0003 EA Water Motor Gong .....	1,546.88	199.28
21 12 29 00-0004 EA Fire Riser Flow Switch (National Fire Protection Association 13) .....	1,453.75	23.18
21 12 29 00-0005 EA Water Flow Supervisory (Tamper) Switch Mounted On Valve .....	259.12	39.66
21 12 29 00-0006 EA Lever Type Bleeder Valve (Potter BVL) .....	181.46	39.66
<b>21 12 29 00-0007 Water Flow Detector</b> <small>(21 12 29)</small>		
<b>21 12 29 00-0008 Pressure-Type Water Flow Detector</b> <small>(21 12 29 00-0007)</small>		
21 12 29 00-0009 EA Pressure-Type Water Flow Detector For Up To 2-1/2" Pipe .....	427.66	122.03
21 12 29 00-0010 EA Pressure-Type Water Flow Detector For >2-1/2" To 4" Pipe .....	617.93	161.70
21 12 29 00-0011 EA Pressure-Type Water Flow Detector For >4" To 8" Pipe .....	942.76	183.05
<b>21 12 29 00-0012 Vane-Type Water Flow Detector</b> <small>(21 12 29 00-0007)</small>		
21 12 29 00-0013 EA Vane-Type Water Flow Detector For Up To 2-1/2" Pipe .....	527.01	122.03
21 12 29 00-0014 EA Vane-Type Water Flow Detector For >2-1/2" To 4" Pipe .....	739.63	161.70
21 12 29 00-0015 EA Vane-Type Water Flow Detector For >4" To 8" Pipe .....	1,135.69	183.05
<b>21 13 Fire-Suppression Sprinkler Systems</b> <small>(21 10)</small>		
<b>21 13 13 Wet-Pipe Sprinkler Systems</b> <small>(21 13)</small>		
<b>21 13 13 00-0001 Complete Wet Pipe Sprinkler Systems Assemblies</b> <small>(21 13 13)</small>		
Note: Includes all branch line piping (standard weight threaded black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc) from riser pipe and mains. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and tanks, fire pumps and tanks. Not for use where detail is available. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1411 for individual grooved pipe, 23 21 13 23-1484 for individual grooved pipe fittings.		
<b>21 13 13 00-0002 Light Hazard, Complete Wet-Pipe Sprinkler System Assemblies</b> <small>(21 13 13 00-0001)</small>		
21 13 13 00-0003 EA Exposed Piping, Light Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly .....	1,050.64	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	134.59	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-187.13	
For Up To 5, Add	466.26	
For >5 To 10, Add	279.14	
For >10 To 20, Add	174.07	
For >20 To 40, Add	75.53	
For >100 To 150, Deduct	-105.06	
For >150, Deduct	-210.13	
21 13 13 00-0004 EA Concealed Piping, Light Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly .....	1,316.32	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	163.58	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-229.39	
For Up To 5, Add	594.27	
For >5 To 10, Add	364.88	
For >10 To 20, Add	233.25	
For >20 To 40, Add	99.69	
For >100 To 150, Deduct	-131.63	
For >150, Deduct	-263.26	
For Work In Restricted Working Space, Add	203.24	
<b>21 13 13 00-0005 Ordinary Hazard, Complete Wet-Pipe Sprinkler System Assemblies</b> <small>(21 13 13 00-0001)</small>		
21 13 13 00-0006 EA Exposed Piping, Ordinary Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly .....	1,026.84	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Copper Pipe, Add	131.30	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-182.64	
For Up To 5, Add	456.19	
For >5 To 10, Add	273.55	
For >10 To 20, Add	170.86	
For >20 To 40, Add	74.07	
For >100 To 150, Deduct	-102.68	
For >150, Deduct	-205.37	
21 13 13 00-0007 EA Concealed Piping, Ordinary Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly .....	1,282.26	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Copper Pipe, Add	158.91	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-223.03	
For Up To 5, Add	579.76	
For >5 To 10, Add	356.73	
For >10 To 20, Add	228.50	
For >20 To 40, Add	97.54	
For >100 To 150, Deduct	-128.23	
For >150, Deduct	-256.45	
For Work In Restricted Working Space, Add	200.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>21 13 13 00-0008</b> <b>Extra Hazard, Complete Wet-Pipe Sprinkler System Assemblies</b> <small>(21 13 13 00-0001)</small>		
21 13 13 00-0009    EA    Exposed Piping, Extra Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly .....	947.46	
<i>Note: Includes branch pipe and fittings, supports and sprinkler heads.</i>		
<i>For Copper Pipe, Add</i>	120.95	
<i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>	-168.33	
<i>For Up To 5, Add</i>	421.32	
<i>For &gt;5 To 10, Add</i>	252.99	
<i>For &gt;10 To 20, Add</i>	158.24	
<i>For &gt;20 To 40, Add</i>	68.54	
<i>For &gt;100 To 150, Deduct</i>	-94.75	
<i>For &gt;150, Deduct</i>	-189.49	
21 13 13 00-0010    EA    Concealed Piping, Extra Hazard, Per Head, Complete Wet-Pipe Sprinkler System Assembly .....	1,185.80	
<i>Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.</i>		
<i>For Copper Pipe, Add</i>	146.73	
<i>For Polyvinyl Chloride (PVC) Pipe, Deduct</i>	-206.02	
<i>For Up To 5, Add</i>	536.60	
<i>For &gt;5 To 10, Add</i>	330.58	
<i>For &gt;10 To 20, Add</i>	212.00	
<i>For &gt;20 To 40, Add</i>	90.43	
<i>For &gt;100 To 150, Deduct</i>	-118.58	
<i>For &gt;150, Deduct</i>	-237.16	
<i>For Work In Restricted Working Space, Add</i>	186.83	
<b>21 13 13 00-0011</b> <b>Wet Pipe Sprinkler Components</b> <small>(21 13 13)</small>		
<i>Note: Excludes hydraulic calculations.</i>		
<b>21 13 13 00-0012</b> <b>Wet Pipe Alarm Check Valves</b> <small>(21 13 13 00-0011)</small>		
<i>Note: Excludes trim package See CSI section 21 13 13 00-0018 for Wet Pipe Valve Trim.</i>		
21 13 13 00-0013    EA    2-1/2" Wet Pipe Alarm Check Valve .....	2,031.39	167.79
21 13 13 00-0014    EA    3" Wet Pipe Alarm Check Valve .....	2,080.20	192.20
21 13 13 00-0015    EA    4" Wet Pipe Alarm Check Valve .....	2,348.67	326.44
21 13 13 00-0016    EA    6" Wet Pipe Alarm Check Valve .....	2,285.63	411.86
21 13 13 00-0017    EA    8" Wet Pipe Alarm Check Valve .....	4,042.31	521.70
<b>21 13 13 00-0018</b> <b>Wet Pipe Valve Trim</b> <small>(21 13 13 00-0011)</small>		
<i>Note: Vertical or Horizontal, closed drain, basic galvanized trim assembly package. Includes gauges, pressure switch, relief valve, drain line, and retard chamber.</i>		
21 13 13 00-0019    EA    2-1/2" Wet Pipe Valve Trim.....	1,714.41	355.12
21 13 13 00-0020    EA    3" Wet Pipe Valve Trim.....	1,806.08	355.12
21 13 13 00-0021    EA    4" Wet Pipe Valve Trim.....	2,191.31	486.92
21 13 13 00-0022    EA    6" Wet Pipe Valve Trim.....	2,600.27	677.29
21 13 13 00-0023    EA    8" Wet Pipe Valve Trim.....	2,868.74	838.37
<b>21 13 13 00-0024</b> <b>Wet Pipe Sprinkler Heads</b> <small>(21 13 13 00-0011)</small>		
<b>21 13 13 00-0025</b> <b>Upright Wet Pipe Sprinkler Heads</b> <small>(21 13 13 00-0024)</small>		
21 13 13 00-0026    EA    1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Brass Wet Pipe Sprinkler Head .....	95.23	16.14
<i>For &gt;25 To 50, Deduct</i>		
<i>For &gt;50 To 100, Deduct</i>	-3.23	
<i>For &gt;100 To 500, Deduct</i>	-7.99	
<i>For &gt;500 To 1,000, Deduct</i>	-13.52	
<i>For &gt;1,000, Deduct</i>	-28.12	
<i>For &gt;1,000, Deduct</i>	-41.04	
21 13 13 00-0027    EA    1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Chrome Wet Pipe Sprinkler Head.....	98.35	16.14
<i>For &gt;25 To 50, Deduct</i>		
<i>For &gt;50 To 100, Deduct</i>	-3.23	
<i>For &gt;100 To 500, Deduct</i>	-8.15	
<i>For &gt;500 To 1,000, Deduct</i>	-13.91	
<i>For &gt;1,000, Deduct</i>	-28.68	
<i>For &gt;1,000, Deduct</i>	-41.60	
21 13 13 00-0028    EA    1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	100.34	16.14
<i>For &gt;25 To 50, Deduct</i>		
<i>For &gt;50 To 100, Deduct</i>	-3.23	
<i>For &gt;100 To 500, Deduct</i>	-8.25	
<i>For &gt;500 To 1,000, Deduct</i>	-14.16	
<i>For &gt;1,000, Deduct</i>	-29.04	
<i>For &gt;1,000, Deduct</i>	-41.96	
21 13 13 00-0029    EA    1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head.....	96.80	16.14
<i>For &gt;25 To 50, Deduct</i>		
<i>For &gt;50 To 100, Deduct</i>	-3.23	
<i>For &gt;100 To 500, Deduct</i>	-8.07	
<i>For &gt;500 To 1,000, Deduct</i>	-13.71	
<i>For &gt;1,000, Deduct</i>	-28.40	
<i>For &gt;1,000, Deduct</i>	-41.32	
21 13 13 00-0030    EA    1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head .....	100.04	16.14
<i>For &gt;25 To 50, Deduct</i>		
<i>For &gt;50 To 100, Deduct</i>	-3.23	
<i>For &gt;100 To 500, Deduct</i>	-8.23	
<i>For &gt;500 To 1,000, Deduct</i>	-14.12	
<i>For &gt;1,000, Deduct</i>	-28.99	
<i>For &gt;1,000, Deduct</i>	-41.90	

**21 Fire Suppression**  
**21 10 Water-Based Fire-Suppression Systems**  
**21 13 Fire-Suppression Sprinkler Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0031	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	102.12	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.34	
			<i>For &gt;100 To 500, Deduct</i>	-14.38	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.36	
			<i>For &gt;1,000, Deduct</i>	-42.28	
21 13 13 00-0032	EA		1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Brass Wet Pipe Sprinkler Head.....	117.24	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.09	
			<i>For &gt;100 To 500, Deduct</i>	-16.27	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.08	
			<i>For &gt;1,000, Deduct</i>	-45.00	
21 13 13 00-0033	EA		1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	125.60	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.51	
			<i>For &gt;100 To 500, Deduct</i>	-17.31	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.59	
			<i>For &gt;1,000, Deduct</i>	-46.50	
21 13 13 00-0034	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Brass Wet Pipe Sprinkler Head .....	117.24	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.09	
			<i>For &gt;100 To 500, Deduct</i>	-16.27	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.08	
			<i>For &gt;1,000, Deduct</i>	-45.00	
21 13 13 00-0035	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	125.60	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.51	
			<i>For &gt;100 To 500, Deduct</i>	-17.31	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.59	
			<i>For &gt;1,000, Deduct</i>	-46.50	
21 13 13 00-0036	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Brass Wet Pipe Sprinkler Head .....	106.41	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.55	
			<i>For &gt;100 To 500, Deduct</i>	-14.92	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.13	
			<i>For &gt;1,000, Deduct</i>	-43.05	
21 13 13 00-0037	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	110.49	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.75	
			<i>For &gt;100 To 500, Deduct</i>	-15.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.87	
			<i>For &gt;1,000, Deduct</i>	-43.78	
21 13 13 00-0038	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Brass Wet Pipe Sprinkler Head .....	109.03	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.04	
			<i>For &gt;100 To 500, Deduct</i>	-15.42	
			<i>For &gt;500 To 1,000, Deduct</i>	-31.82	
			<i>For &gt;1,000, Deduct</i>	-46.17	
21 13 13 00-0039	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	113.80	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.28	
			<i>For &gt;100 To 500, Deduct</i>	-16.02	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.68	
			<i>For &gt;1,000, Deduct</i>	-47.03	
21 13 13 00-0040	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	114.77	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.33	
			<i>For &gt;100 To 500, Deduct</i>	-16.14	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.86	
			<i>For &gt;1,000, Deduct</i>	-47.21	
21 13 13 00-0041	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head.....	109.03	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.04	
			<i>For &gt;100 To 500, Deduct</i>	-15.42	
			<i>For &gt;500 To 1,000, Deduct</i>	-31.82	
			<i>For &gt;1,000, Deduct</i>	-46.17	
21 13 13 00-0042	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head.....	113.80	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.28	
			<i>For &gt;100 To 500, Deduct</i>	-16.02	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.68	
			<i>For &gt;1,000, Deduct</i>	-47.03	
21 13 13 00-0043	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	114.77	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.33	
			<i>For &gt;100 To 500, Deduct</i>	-16.14	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.86	
			<i>For &gt;1,000, Deduct</i>	-47.21	
21 13 13 00-0044	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Brass Wet Pipe Sprinkler Head .....	104.25	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.44	
			<i>For &gt;100 To 500, Deduct</i>	-14.65	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.74	
			<i>For &gt;1,000, Deduct</i>	-42.66	



		<b>Fire Suppression</b>	<b>21</b>
		<b>Water-Based Fire-Suppression Systems</b>	<b>21 10</b>
		<b>Fire-Suppression Sprinkler Systems</b>	<b>21 13</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0045	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Chrome Wet Pipe Sprinkler Head.....	107.37	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.60	
			<i>For &gt;100 To 500, Deduct</i>	-15.04	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.31	
			<i>For &gt;1,000, Deduct</i>	-43.22	
21 13 13 00-0046	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	107.97	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.63	
			<i>For &gt;100 To 500, Deduct</i>	-15.11	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.41	
			<i>For &gt;1,000, Deduct</i>	-43.33	
21 13 13 00-0047	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Brass Wet Pipe Sprinkler Head .....	104.25	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.44	
			<i>For &gt;100 To 500, Deduct</i>	-14.65	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.74	
			<i>For &gt;1,000, Deduct</i>	-42.66	
21 13 13 00-0048	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Chrome Wet Pipe Sprinkler Head.....	107.37	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.60	
			<i>For &gt;100 To 500, Deduct</i>	-15.04	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.31	
			<i>For &gt;1,000, Deduct</i>	-43.22	
21 13 13 00-0049	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	107.97	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.63	
			<i>For &gt;100 To 500, Deduct</i>	-15.11	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.41	
			<i>For &gt;1,000, Deduct</i>	-43.33	
21 13 13 00-0050	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Combustible Concealed Space, Upright Brass Wet Pipe Sprinkler Head .....	107.96	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.63	
			<i>For &gt;100 To 500, Deduct</i>	-15.11	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.41	
			<i>For &gt;1,000, Deduct</i>	-43.33	
21 13 13 00-0051	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head .....	142.51	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-10.71	
			<i>For &gt;100 To 500, Deduct</i>	-19.61	
			<i>For &gt;500 To 1,000, Deduct</i>	-37.85	
			<i>For &gt;1,000, Deduct</i>	-52.20	
21 13 13 00-0052	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head.....	146.10	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-10.89	
			<i>For &gt;100 To 500, Deduct</i>	-20.06	
			<i>For &gt;500 To 1,000, Deduct</i>	-38.50	
			<i>For &gt;1,000, Deduct</i>	-52.85	
21 13 13 00-0053	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	146.10	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-10.89	
			<i>For &gt;100 To 500, Deduct</i>	-20.06	
			<i>For &gt;500 To 1,000, Deduct</i>	-38.50	
			<i>For &gt;1,000, Deduct</i>	-52.85	
21 13 13 00-0054	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head .....	118.29	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.50	
			<i>For &gt;100 To 500, Deduct</i>	-16.58	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.49	
			<i>For &gt;1,000, Deduct</i>	-47.84	
21 13 13 00-0055	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head.....	120.75	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.63	
			<i>For &gt;100 To 500, Deduct</i>	-16.89	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.93	
			<i>For &gt;1,000, Deduct</i>	-48.28	
21 13 13 00-0056	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head.....	120.75	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.63	
			<i>For &gt;100 To 500, Deduct</i>	-16.89	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.93	
			<i>For &gt;1,000, Deduct</i>	-48.28	
21 13 13 00-0057	EA		1/2" NPT Thread, K=5.6, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head .....	320.36	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-19.25	
			<i>For &gt;100 To 500, Deduct</i>	-41.66	
			<i>For &gt;500 To 1,000, Deduct</i>	-68.64	
			<i>For &gt;1,000, Deduct</i>	-81.56	
21 13 13 00-0058	EA		3/4" NPT Thread, K=8.0, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head .....	352.88	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-21.23	
			<i>For &gt;100 To 500, Deduct</i>	-45.90	
			<i>For &gt;500 To 1,000, Deduct</i>	-75.72	
			<i>For &gt;1,000, Deduct</i>	-90.07	

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0059 EA 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head .....	176.58	16.14
For>25 To 50, Deduct	-3.23	
For>50 To 100, Deduct	-12.06	
For>100 To 500, Deduct	-23.69	
For>500 To 1,000, Deduct	-42.76	
For>1,000, Deduct	-55.68	
21 13 13 00-0060 EA 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head .....	214.04	16.14
For>25 To 50, Deduct	-3.23	
For>50 To 100, Deduct	-13.93	
For>100 To 500, Deduct	-28.37	
For>500 To 1,000, Deduct	-49.51	
For>1,000, Deduct	-62.42	
21 13 13 00-0061 EA 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Brass Wet Pipe Sprinkler Head .....	370.69	16.14
For>25 To 50, Deduct	-3.23	
For>50 To 100, Deduct	-21.76	
For>100 To 500, Deduct	-47.95	
For>500 To 1,000, Deduct	-77.70	
For>1,000, Deduct	-90.62	
21 13 13 00-0062 EA 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Chrome Wet Pipe Sprinkler Head .....	468.31	16.14
For>25 To 50, Deduct	-3.23	
For>50 To 100, Deduct	-26.64	
For>100 To 500, Deduct	-60.15	
For>500 To 1,000, Deduct	-95.27	
For>1,000, Deduct	-108.19	
21 13 13 00-0063 EA 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head .....	221.21	17.93
For>25 To 50, Deduct	-3.59	
For>50 To 100, Deduct	-14.65	
For>100 To 500, Deduct	-29.45	
For>500 To 1,000, Deduct	-52.02	
For>1,000, Deduct	-66.37	
21 13 13 00-0064 EA 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head .....	222.34	17.93
For>25 To 50, Deduct	-3.59	
For>50 To 100, Deduct	-14.70	
For>100 To 500, Deduct	-29.59	
For>500 To 1,000, Deduct	-52.22	
For>1,000, Deduct	-66.57	
<b>21 13 13 00-0065 Conventional Wet Pipe Sprinkler Heads</b> <small>(21 13 13 00-0024)</small>		
21 13 13 00-0066 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Brass Wet Pipe Sprinkler Head .....	95.23	16.14
For>25 To 50, Deduct	-3.23	
For>50 To 100, Deduct	-7.99	
For>100 To 500, Deduct	-13.52	
For>500 To 1,000, Deduct	-28.12	
For>1,000, Deduct	-41.04	
21 13 13 00-0067 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Chrome Wet Pipe Sprinkler Head .....	98.35	16.14
For>25 To 50, Deduct	-3.23	
For>50 To 100, Deduct	-8.15	
For>100 To 500, Deduct	-13.91	
For>500 To 1,000, Deduct	-28.68	
For>1,000, Deduct	-41.60	
21 13 13 00-0068 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional White Polyester Coated Wet Pipe Sprinkler Head .....	100.34	16.14
For>25 To 50, Deduct	-3.23	
For>50 To 100, Deduct	-8.25	
For>100 To 500, Deduct	-14.16	
For>500 To 1,000, Deduct	-29.04	
For>1,000, Deduct	-41.96	
21 13 13 00-0069 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Brass Wet Pipe Sprinkler Head .....	110.14	17.93
For>25 To 50, Deduct	-3.59	
For>50 To 100, Deduct	-9.09	
For>100 To 500, Deduct	-15.56	
For>500 To 1,000, Deduct	-32.02	
For>1,000, Deduct	-46.37	
21 13 13 00-0070 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Chrome Wet Pipe Sprinkler Head .....	113.80	17.93
For>25 To 50, Deduct	-3.59	
For>50 To 100, Deduct	-9.28	
For>100 To 500, Deduct	-16.02	
For>500 To 1,000, Deduct	-32.68	
For>1,000, Deduct	-47.03	
21 13 13 00-0071 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional White Polyester Coated Wet Pipe Sprinkler Head .....	114.37	17.93
For>25 To 50, Deduct	-3.59	
For>50 To 100, Deduct	-9.31	
For>100 To 500, Deduct	-16.09	
For>500 To 1,000, Deduct	-32.78	
For>1,000, Deduct	-47.13	
21 13 13 00-0072 EA 1/2" NPT Thread, K=5.6, Quick Response, Conventional Stainless Steel Wet Pipe Sprinkler Head .....	320.36	16.14
For>25 To 50, Deduct	-3.23	
For>50 To 100, Deduct	-19.25	
For>100 To 500, Deduct	-41.66	
For>500 To 1,000, Deduct	-68.64	
For>1,000, Deduct	-81.56	

**21 13 13 00-0073 Pendant Wet Pipe Sprinkler Heads** (21 13 13 00-0024)

See CSI section 21 13 13 00-0209 for escutcheon for recessed pendant sprinkler head.



		<b>Fire Suppression</b>	<b>21</b>
		<b>Water-Based Fire-Suppression Systems</b>	<b>21 10</b>
		<b>Fire-Suppression Sprinkler Systems</b>	<b>21 13</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0074	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Brass Wet Pipe Sprinkler Head .....	95.23	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-7.99	
			<i>For &gt;100 To 500, Deduct</i>	-13.52	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.12	
			<i>For &gt;1,000, Deduct</i>	-41.04	
21 13 13 00-0075	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Chrome Wet Pipe Sprinkler Head .....	98.35	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.15	
			<i>For &gt;100 To 500, Deduct</i>	-13.91	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.68	
			<i>For &gt;1,000, Deduct</i>	-41.60	
21 13 13 00-0076	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....	100.34	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.25	
			<i>For &gt;100 To 500, Deduct</i>	-14.16	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.04	
			<i>For &gt;1,000, Deduct</i>	-41.96	
21 13 13 00-0077	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendent Brass Wet Pipe Sprinkler Head .....	109.03	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.04	
			<i>For &gt;100 To 500, Deduct</i>	-15.42	
			<i>For &gt;500 To 1,000, Deduct</i>	-31.82	
			<i>For &gt;1,000, Deduct</i>	-46.17	
21 13 13 00-0078	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head .....	113.80	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.28	
			<i>For &gt;100 To 500, Deduct</i>	-16.02	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.68	
			<i>For &gt;1,000, Deduct</i>	-47.03	
21 13 13 00-0079	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....	114.77	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.33	
			<i>For &gt;100 To 500, Deduct</i>	-16.14	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.86	
			<i>For &gt;1,000, Deduct</i>	-47.21	
21 13 13 00-0080	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Brass Wet Pipe Sprinkler Head .....	104.25	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.44	
			<i>For &gt;100 To 500, Deduct</i>	-14.65	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.74	
			<i>For &gt;1,000, Deduct</i>	-42.66	
21 13 13 00-0081	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Chrome Wet Pipe Sprinkler Head .....	107.37	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.60	
			<i>For &gt;100 To 500, Deduct</i>	-15.04	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.31	
			<i>For &gt;1,000, Deduct</i>	-43.22	
21 13 13 00-0082	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....	107.97	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.63	
			<i>For &gt;100 To 500, Deduct</i>	-15.11	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.41	
			<i>For &gt;1,000, Deduct</i>	-43.33	
21 13 13 00-0083	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head .....	104.25	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.44	
			<i>For &gt;100 To 500, Deduct</i>	-14.65	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.74	
			<i>For &gt;1,000, Deduct</i>	-42.66	
21 13 13 00-0084	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head .....	107.37	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.60	
			<i>For &gt;100 To 500, Deduct</i>	-15.04	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.31	
			<i>For &gt;1,000, Deduct</i>	-43.22	
21 13 13 00-0085	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....	107.97	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.63	
			<i>For &gt;100 To 500, Deduct</i>	-15.11	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.41	
			<i>For &gt;1,000, Deduct</i>	-43.33	
21 13 13 00-0086	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head, Low Lead .....	104.25	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.44	
			<i>For &gt;100 To 500, Deduct</i>	-14.65	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.74	
			<i>For &gt;1,000, Deduct</i>	-42.66	
21 13 13 00-0087	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead .....	107.37	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.60	
			<i>For &gt;100 To 500, Deduct</i>	-15.04	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.31	
			<i>For &gt;1,000, Deduct</i>	-43.22	

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0088	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....	107.97	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.63	
			<i>For &gt;100 To 500, Deduct</i>	-15.11	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.41	
			<i>For &gt;1,000, Deduct</i>	-43.33	
21 13 13 00-0089	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Brass Wet Pipe Sprinkler Head, Low Lead .....	95.23	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-7.99	
			<i>For &gt;100 To 500, Deduct</i>	-13.52	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.12	
			<i>For &gt;1,000, Deduct</i>	-41.04	
21 13 13 00-0090	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead .....	98.35	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.15	
			<i>For &gt;100 To 500, Deduct</i>	-13.91	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.68	
			<i>For &gt;1,000, Deduct</i>	-41.60	
21 13 13 00-0091	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....	100.34	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.25	
			<i>For &gt;100 To 500, Deduct</i>	-14.16	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.04	
			<i>For &gt;1,000, Deduct</i>	-41.96	
21 13 13 00-0092	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head .....	96.80	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.07	
			<i>For &gt;100 To 500, Deduct</i>	-13.71	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.40	
			<i>For &gt;1,000, Deduct</i>	-41.32	
21 13 13 00-0093	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head.....	99.01	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.18	
			<i>For &gt;100 To 500, Deduct</i>	-13.99	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.80	
			<i>For &gt;1,000, Deduct</i>	-41.72	
21 13 13 00-0094	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	101.03	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.28	
			<i>For &gt;100 To 500, Deduct</i>	-14.24	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.16	
			<i>For &gt;1,000, Deduct</i>	-42.08	
21 13 13 00-0095	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head.....	111.98	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.19	
			<i>For &gt;100 To 500, Deduct</i>	-15.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.35	
			<i>For &gt;1,000, Deduct</i>	-46.70	
21 13 13 00-0096	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head.....	116.03	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.39	
			<i>For &gt;100 To 500, Deduct</i>	-16.30	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.08	
			<i>For &gt;1,000, Deduct</i>	-47.43	
21 13 13 00-0097	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	116.03	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.39	
			<i>For &gt;100 To 500, Deduct</i>	-16.30	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.08	
			<i>For &gt;1,000, Deduct</i>	-47.43	
21 13 13 00-0098	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Brass Wet Pipe Sprinkler Head .....	106.41	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.55	
			<i>For &gt;100 To 500, Deduct</i>	-14.92	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.13	
			<i>For &gt;1,000, Deduct</i>	-43.05	
21 13 13 00-0099	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	110.49	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.75	
			<i>For &gt;100 To 500, Deduct</i>	-15.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.87	
			<i>For &gt;1,000, Deduct</i>	-43.78	
21 13 13 00-0100	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Brass Wet Pipe Sprinkler Head .....	116.61	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.06	
			<i>For &gt;100 To 500, Deduct</i>	-16.19	
			<i>For &gt;500 To 1,000, Deduct</i>	-31.97	
			<i>For &gt;1,000, Deduct</i>	-44.88	
21 13 13 00-0101	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	123.31	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.39	
			<i>For &gt;100 To 500, Deduct</i>	-17.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.17	
			<i>For &gt;1,000, Deduct</i>	-46.09	





		<b>Fire Suppression</b>	<b>21</b>
		<b>Water-Based Fire-Suppression Systems</b>	<b>21 10</b>
		<b>Fire-Suppression Sprinkler Systems</b>	<b>21 13</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0102	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Brass Wet Pipe Sprinkler Head .....	116.61	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.06	
			<i>For &gt;100 To 500, Deduct</i>	-16.19	
			<i>For &gt;500 To 1,000, Deduct</i>	-31.97	
			<i>For &gt;1,000, Deduct</i>	-44.88	
21 13 13 00-0103	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head.....	123.31	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.39	
			<i>For &gt;100 To 500, Deduct</i>	-17.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.17	
			<i>For &gt;1,000, Deduct</i>	-46.09	
21 13 13 00-0104	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	101.12	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.29	
			<i>For &gt;100 To 500, Deduct</i>	-14.25	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.18	
			<i>For &gt;1,000, Deduct</i>	-42.10	
21 13 13 00-0105	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head .....	104.64	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.46	
			<i>For &gt;100 To 500, Deduct</i>	-14.69	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.81	
			<i>For &gt;1,000, Deduct</i>	-42.73	
21 13 13 00-0106	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	106.47	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.55	
			<i>For &gt;100 To 500, Deduct</i>	-14.92	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.14	
			<i>For &gt;1,000, Deduct</i>	-43.06	
21 13 13 00-0107	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	110.51	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.11	
			<i>For &gt;100 To 500, Deduct</i>	-15.61	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.09	
			<i>For &gt;1,000, Deduct</i>	-46.44	
21 13 13 00-0108	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	113.98	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.29	
			<i>For &gt;100 To 500, Deduct</i>	-16.04	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.71	
			<i>For &gt;1,000, Deduct</i>	-47.06	
21 13 13 00-0109	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....	117.34	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.45	
			<i>For &gt;100 To 500, Deduct</i>	-16.46	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.32	
			<i>For &gt;1,000, Deduct</i>	-47.67	
21 13 13 00-0110	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	103.11	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.38	
			<i>For &gt;100 To 500, Deduct</i>	-14.50	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.54	
			<i>For &gt;1,000, Deduct</i>	-42.45	
21 13 13 00-0111	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	106.55	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.56	
			<i>For &gt;100 To 500, Deduct</i>	-14.93	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.16	
			<i>For &gt;1,000, Deduct</i>	-43.07	
21 13 13 00-0112	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	108.43	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.65	
			<i>For &gt;100 To 500, Deduct</i>	-15.17	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.50	
			<i>For &gt;1,000, Deduct</i>	-43.41	
21 13 13 00-0113	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head .....	111.98	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.19	
			<i>For &gt;100 To 500, Deduct</i>	-15.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.35	
			<i>For &gt;1,000, Deduct</i>	-46.70	
21 13 13 00-0114	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head .....	115.60	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.37	
			<i>For &gt;100 To 500, Deduct</i>	-16.24	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.01	
			<i>For &gt;1,000, Deduct</i>	-47.36	

**21 Fire Suppression**  
**21 10 Water-Based Fire-Suppression Systems**  
**21 13 Fire-Suppression Sprinkler Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0115	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....	119.09	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.54	
			<i>For &gt;100 To 500, Deduct</i>	-16.68	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.63	
			<i>For &gt;1,000, Deduct</i>	-47.98	
21 13 13 00-0116	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Pendent Chrome Wet Pipe Sprinkler Head .....	157.84	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-11.12	
			<i>For &gt;100 To 500, Deduct</i>	-21.34	
			<i>For &gt;500 To 1,000, Deduct</i>	-39.39	
			<i>For &gt;1,000, Deduct</i>	-52.31	
21 13 13 00-0117	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Pendent White Polyester Coated Wet Pipe Sprinkler Head .....	157.84	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-11.12	
			<i>For &gt;100 To 500, Deduct</i>	-21.34	
			<i>For &gt;500 To 1,000, Deduct</i>	-39.39	
			<i>For &gt;1,000, Deduct</i>	-52.31	
21 13 13 00-0118	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head .....	121.89	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.68	
			<i>For &gt;100 To 500, Deduct</i>	-17.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-34.14	
			<i>For &gt;1,000, Deduct</i>	-48.49	
21 13 13 00-0119	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head .....	124.53	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.81	
			<i>For &gt;100 To 500, Deduct</i>	-17.36	
			<i>For &gt;500 To 1,000, Deduct</i>	-34.61	
			<i>For &gt;1,000, Deduct</i>	-48.96	
21 13 13 00-0120	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....	124.53	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.81	
			<i>For &gt;100 To 500, Deduct</i>	-17.36	
			<i>For &gt;500 To 1,000, Deduct</i>	-34.61	
			<i>For &gt;1,000, Deduct</i>	-48.96	
21 13 13 00-0121	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head .....	118.29	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.50	
			<i>For &gt;100 To 500, Deduct</i>	-16.58	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.49	
			<i>For &gt;1,000, Deduct</i>	-47.84	
21 13 13 00-0122	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head .....	120.75	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.63	
			<i>For &gt;100 To 500, Deduct</i>	-16.89	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.93	
			<i>For &gt;1,000, Deduct</i>	-48.28	
21 13 13 00-0123	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head .....	120.75	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.63	
			<i>For &gt;100 To 500, Deduct</i>	-16.89	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.93	
			<i>For &gt;1,000, Deduct</i>	-48.28	
21 13 13 00-0124	EA		1/2" NPT Thread, K=5.6, Quick Response, Pendent Stainless Steel Wet Pipe Sprinkler Head .....	320.36	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-19.25	
			<i>For &gt;100 To 500, Deduct</i>	-41.66	
			<i>For &gt;500 To 1,000, Deduct</i>	-68.64	
			<i>For &gt;1,000, Deduct</i>	-81.56	
21 13 13 00-0125	EA		3/4" NPT Thread, K=8.0, Quick Response, Pendent Stainless Steel Wet Pipe Sprinkler Head .....	352.88	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-21.23	
			<i>For &gt;100 To 500, Deduct</i>	-45.90	
			<i>For &gt;500 To 1,000, Deduct</i>	-75.72	
			<i>For &gt;1,000, Deduct</i>	-90.07	
21 13 13 00-0126	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendent Brass Wet Pipe Sprinkler Head .....	176.58	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-12.06	
			<i>For &gt;100 To 500, Deduct</i>	-23.69	
			<i>For &gt;500 To 1,000, Deduct</i>	-42.76	
			<i>For &gt;1,000, Deduct</i>	-55.68	
21 13 13 00-0127	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendent Chrome Wet Pipe Sprinkler Head .....	214.04	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-13.93	
			<i>For &gt;100 To 500, Deduct</i>	-28.37	
			<i>For &gt;500 To 1,000, Deduct</i>	-49.51	
			<i>For &gt;1,000, Deduct</i>	-62.42	
21 13 13 00-0128	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendent Brass Wet Pipe Sprinkler Head .....	370.69	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-21.76	
			<i>For &gt;100 To 500, Deduct</i>	-47.95	
			<i>For &gt;500 To 1,000, Deduct</i>	-77.70	
			<i>For &gt;1,000, Deduct</i>	-90.62	



		<b>Fire Suppression</b>	<b>21</b>
		<b>Water-Based Fire-Suppression Systems</b>	<b>21 10</b>
		<b>Fire-Suppression Sprinkler Systems</b>	<b>21 13</b>

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0129	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendent Chrome Wet Pipe Sprinkler Head.....	468.31	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-26.64	
			<i>For &gt;100 To 500, Deduct</i>	-60.15	
			<i>For &gt;500 To 1,000, Deduct</i>	-95.27	
			<i>For &gt;1,000, Deduct</i>	-108.19	
21 13 13 00-0130	EA		3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendent Brass Wet Pipe Sprinkler Head.....	221.21	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-14.65	
			<i>For &gt;100 To 500, Deduct</i>	-29.45	
			<i>For &gt;500 To 1,000, Deduct</i>	-52.02	
			<i>For &gt;1,000, Deduct</i>	-66.37	
21 13 13 00-0131	EA		3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendent Chrome Wet Pipe Sprinkler Head.....	222.34	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-14.70	
			<i>For &gt;100 To 500, Deduct</i>	-29.59	
			<i>For &gt;500 To 1,000, Deduct</i>	-52.22	
			<i>For &gt;1,000, Deduct</i>	-66.57	
<b>21 13 13 00-0132 Sidewall Wet Pipe Sprinkler Heads (21 13 13 00-0024)</b>					
<b>21 13 13 00-0133 Horizontal Sidewall Wet-Pipe Sprinkler Heads (21 13 13 00-0132)</b>					
21 13 13 00-0134	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	99.90	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.22	
			<i>For &gt;100 To 500, Deduct</i>	-14.10	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.96	
			<i>For &gt;1,000, Deduct</i>	-41.88	
21 13 13 00-0135	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	102.40	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.35	
			<i>For &gt;100 To 500, Deduct</i>	-14.41	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.41	
			<i>For &gt;1,000, Deduct</i>	-42.33	
21 13 13 00-0136	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall White Polyester Coated Wet Pipe Sprinkler Head.....	106.35	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.55	
			<i>For &gt;100 To 500, Deduct</i>	-14.91	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.12	
			<i>For &gt;1,000, Deduct</i>	-43.04	
21 13 13 00-0137	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	101.31	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.29	
			<i>For &gt;100 To 500, Deduct</i>	-14.28	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.21	
			<i>For &gt;1,000, Deduct</i>	-42.13	
21 13 13 00-0138	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	103.86	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.42	
			<i>For &gt;100 To 500, Deduct</i>	-14.60	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.67	
			<i>For &gt;1,000, Deduct</i>	-42.59	
21 13 13 00-0139	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall White Wet Pipe Sprinkler Head.....	107.89	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.62	
			<i>For &gt;100 To 500, Deduct</i>	-15.10	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.40	
			<i>For &gt;1,000, Deduct</i>	-43.31	
21 13 13 00-0140	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	110.49	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.75	
			<i>For &gt;100 To 500, Deduct</i>	-15.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.87	
			<i>For &gt;1,000, Deduct</i>	-43.78	
21 13 13 00-0141	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	114.56	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.96	
			<i>For &gt;100 To 500, Deduct</i>	-15.93	
			<i>For &gt;500 To 1,000, Deduct</i>	-31.60	
			<i>For &gt;1,000, Deduct</i>	-44.52	
21 13 13 00-0142	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	119.73	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.57	
			<i>For &gt;100 To 500, Deduct</i>	-16.76	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.75	
			<i>For &gt;1,000, Deduct</i>	-48.10	
21 13 13 00-0143	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	125.83	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.88	
			<i>For &gt;100 To 500, Deduct</i>	-17.52	
			<i>For &gt;500 To 1,000, Deduct</i>	-34.85	
			<i>For &gt;1,000, Deduct</i>	-49.20	

**21 Fire Suppression**  
**21 10 Water-Based Fire-Suppression Systems**  
**21 13 Fire-Suppression Sprinkler Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0144	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....	119.27	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.19	
			<i>For &gt;100 To 500, Deduct</i>	-16.52	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.45	
			<i>For &gt;1,000, Deduct</i>	-45.36	
21 13 13 00-0145	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	123.31	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.39	
			<i>For &gt;100 To 500, Deduct</i>	-17.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.17	
			<i>For &gt;1,000, Deduct</i>	-46.09	
21 13 13 00-0146	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....	119.27	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.19	
			<i>For &gt;100 To 500, Deduct</i>	-16.52	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.45	
			<i>For &gt;1,000, Deduct</i>	-45.36	
21 13 13 00-0147	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	123.31	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-9.39	
			<i>For &gt;100 To 500, Deduct</i>	-17.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.17	
			<i>For &gt;1,000, Deduct</i>	-46.09	
21 13 13 00-0148	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	97.77	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.12	
			<i>For &gt;100 To 500, Deduct</i>	-13.84	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.58	
			<i>For &gt;1,000, Deduct</i>	-41.49	
21 13 13 00-0149	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....	99.84	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.22	
			<i>For &gt;100 To 500, Deduct</i>	-14.09	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.95	
			<i>For &gt;1,000, Deduct</i>	-41.87	
21 13 13 00-0150	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....	102.41	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.35	
			<i>For &gt;100 To 500, Deduct</i>	-14.42	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.41	
			<i>For &gt;1,000, Deduct</i>	-42.33	
21 13 13 00-0151	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	107.36	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-8.96	
			<i>For &gt;100 To 500, Deduct</i>	-15.21	
			<i>For &gt;500 To 1,000, Deduct</i>	-31.52	
			<i>For &gt;1,000, Deduct</i>	-45.87	
21 13 13 00-0152	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	109.58	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.07	
			<i>For &gt;100 To 500, Deduct</i>	-15.49	
			<i>For &gt;500 To 1,000, Deduct</i>	-31.92	
			<i>For &gt;1,000, Deduct</i>	-46.27	
21 13 13 00-0153	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....	111.97	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.19	
			<i>For &gt;100 To 500, Deduct</i>	-15.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.35	
			<i>For &gt;1,000, Deduct</i>	-46.70	
21 13 13 00-0154	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head .....	109.12	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.04	
			<i>For &gt;100 To 500, Deduct</i>	-15.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-31.84	
			<i>For &gt;1,000, Deduct</i>	-46.19	
21 13 13 00-0155	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head .....	111.42	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.16	
			<i>For &gt;100 To 500, Deduct</i>	-15.72	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.25	
			<i>For &gt;1,000, Deduct</i>	-46.60	
21 13 13 00-0156	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head .....	113.91	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.28	
			<i>For &gt;100 To 500, Deduct</i>	-16.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.70	
			<i>For &gt;1,000, Deduct</i>	-47.05	



		<b>Fire Suppression</b>	<b>21</b>
		<b>Water-Based Fire-Suppression Systems</b>	<b>21 10</b>
		<b>Fire-Suppression Sprinkler Systems</b>	<b>21 13</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0157	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	113.95	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.29	
			<i>For &gt;100 To 500, Deduct</i>	-16.04	
			<i>For &gt;500 To 1,000, Deduct</i>	-32.71	
			<i>For &gt;1,000, Deduct</i>	-47.06	
21 13 13 00-0158	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	117.34	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.45	
			<i>For &gt;100 To 500, Deduct</i>	-16.46	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.32	
			<i>For &gt;1,000, Deduct</i>	-47.67	
21 13 13 00-0159	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head.....	117.34	17.93
			<i>For &gt;25 To 50, Deduct</i>	-3.59	
			<i>For &gt;50 To 100, Deduct</i>	-9.45	
			<i>For &gt;100 To 500, Deduct</i>	-16.46	
			<i>For &gt;500 To 1,000, Deduct</i>	-33.32	
			<i>For &gt;1,000, Deduct</i>	-47.67	
21 13 13 00-0160	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	180.36	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-12.25	
			<i>For &gt;100 To 500, Deduct</i>	-24.16	
			<i>For &gt;500 To 1,000, Deduct</i>	-43.44	
			<i>For &gt;1,000, Deduct</i>	-56.36	
21 13 13 00-0161	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall White Wet Pipe Sprinkler Head.....	180.36	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-12.25	
			<i>For &gt;100 To 500, Deduct</i>	-24.16	
			<i>For &gt;500 To 1,000, Deduct</i>	-43.44	
			<i>For &gt;1,000, Deduct</i>	-56.36	
21 13 13 00-0162	EA		1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	98.63	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.16	
			<i>For &gt;100 To 500, Deduct</i>	-13.94	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.73	
			<i>For &gt;1,000, Deduct</i>	-41.65	
21 13 13 00-0163	EA		1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	98.63	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.16	
			<i>For &gt;100 To 500, Deduct</i>	-13.94	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.73	
			<i>For &gt;1,000, Deduct</i>	-41.65	
21 13 13 00-0164	EA		1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall White Wet Pipe Sprinkler Head.....	98.63	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.16	
			<i>For &gt;100 To 500, Deduct</i>	-13.94	
			<i>For &gt;500 To 1,000, Deduct</i>	-28.73	
			<i>For &gt;1,000, Deduct</i>	-41.65	
<b>21 13 13 00-0165</b>			<b>Vertical Sidewall Wet-Pipe Sprinkler Heads</b> <small>(21 13 13 00-0132)</small>		
21 13 13 00-0166	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Brass Wet Pipe Sprinkler Head.....	103.14	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.39	
			<i>For &gt;100 To 500, Deduct</i>	-14.51	
			<i>For &gt;500 To 1,000, Deduct</i>	-29.54	
			<i>For &gt;1,000, Deduct</i>	-42.46	
21 13 13 00-0167	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Chrome Wet Pipe Sprinkler Head.....	106.26	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.54	
			<i>For &gt;100 To 500, Deduct</i>	-14.90	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.11	
			<i>For &gt;1,000, Deduct</i>	-43.02	
21 13 13 00-0168	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall White Wet Pipe Sprinkler Head.....	107.60	16.14
			<i>For &gt;25 To 50, Deduct</i>	-3.23	
			<i>For &gt;50 To 100, Deduct</i>	-8.61	
			<i>For &gt;100 To 500, Deduct</i>	-15.06	
			<i>For &gt;500 To 1,000, Deduct</i>	-30.35	
			<i>For &gt;1,000, Deduct</i>	-43.26	
<b>21 13 13 00-0169</b>			<b>Concealed Wet Pipe Sprinkler Heads</b> <small>(21 13 13 00-0024)</small>		
<b>21 13 13 00-0170</b>			<b>Concealed Pendant Wet-Pipe Sprinkler Heads</b> <small>(21 13 13 00-0169)</small>		
21 13 13 00-0171	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....	147.42	21.53
			Note: Excludes coverplate		
			<i>For &gt;25 To 50, Deduct</i>	-4.30	
			<i>For &gt;50 To 100, Deduct</i>	-11.68	
			<i>For &gt;100 To 500, Deduct</i>	-20.58	
			<i>For &gt;500 To 1,000, Deduct</i>	-41.17	
			<i>For &gt;1,000, Deduct</i>	-58.39	

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0172 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head .....	110.81	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-9.85	
For >100 To 500, Deduct	-16.00	
For >500 To 1,000, Deduct	-34.58	
For >1,000, Deduct	-51.80	
21 13 13 00-0173 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Concealed Pendent Brass Wet Pipe Sprinkler Head .....	112.15	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-9.91	
For >100 To 500, Deduct	-16.17	
For >500 To 1,000, Deduct	-34.82	
For >1,000, Deduct	-52.04	
21 13 13 00-0174 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	137.49	23.32
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.66	
For >50 To 100, Deduct	-11.54	
For >100 To 500, Deduct	-19.52	
For >500 To 1,000, Deduct	-40.61	
For >1,000, Deduct	-59.26	
21 13 13 00-0175 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	130.30	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-10.82	
For >100 To 500, Deduct	-18.44	
For >500 To 1,000, Deduct	-38.09	
For >1,000, Deduct	-55.31	
21 13 13 00-0176 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Concealed Pendent Brass Wet Pipe Sprinkler Head .....	130.30	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-10.82	
For >100 To 500, Deduct	-18.44	
For >500 To 1,000, Deduct	-38.09	
For >1,000, Deduct	-55.31	
21 13 13 00-0177 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head .....	137.49	23.32
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.66	
For >50 To 100, Deduct	-11.54	
For >100 To 500, Deduct	-19.52	
For >500 To 1,000, Deduct	-40.61	
For >1,000, Deduct	-59.26	
21 13 13 00-0178 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head .....	121.73	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-10.39	
For >100 To 500, Deduct	-17.37	
For >500 To 1,000, Deduct	-36.55	
For >1,000, Deduct	-53.76	
21 13 13 00-0179 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head .....	130.30	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-10.82	
For >100 To 500, Deduct	-18.44	
For >500 To 1,000, Deduct	-38.09	
For >1,000, Deduct	-55.31	
21 13 13 00-0180 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head .....	130.30	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-10.82	
For >100 To 500, Deduct	-18.44	
For >500 To 1,000, Deduct	-38.09	
For >1,000, Deduct	-55.31	
21 13 13 00-0181 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head .....	123.76	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-10.49	
For >100 To 500, Deduct	-17.62	
For >500 To 1,000, Deduct	-36.91	
For >1,000, Deduct	-54.13	
21 13 13 00-0182 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Adjustable Concealed Pendent Brass Wet Pipe Sprinkler Head.....	195.70	25.11
Note: Excludes coverplate		
For >25 To 50, Deduct	-5.02	
For >50 To 100, Deduct	-14.81	
For >100 To 500, Deduct	-26.97	
For >500 To 1,000, Deduct	-52.30	
For >1,000, Deduct	-72.39	
21 13 13 00-0183 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head .....	117.47	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-10.18	
For >100 To 500, Deduct	-16.84	
For >500 To 1,000, Deduct	-35.78	
For >1,000, Deduct	-53.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0184 EA 3/4" NPT Thread, 17/32" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	124.10	23.32
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.66	
For >50 To 100, Deduct	-10.87	
For >100 To 500, Deduct	-17.84	
For >500 To 1,000, Deduct	-38.20	
For >1,000, Deduct	-56.85	
21 13 13 00-0185 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	118.67	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-10.24	
For >100 To 500, Deduct	-16.99	
For >500 To 1,000, Deduct	-36.00	
For >1,000, Deduct	-53.21	
21 13 13 00-0186 EA 3/4" NPT Thread, 17/32" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	125.86	23.32
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.66	
For >50 To 100, Deduct	-10.96	
For >100 To 500, Deduct	-18.06	
For >500 To 1,000, Deduct	-38.51	
For >1,000, Deduct	-57.17	
21 13 13 00-0187 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	138.05	23.32
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.66	
For >50 To 100, Deduct	-11.57	
For >100 To 500, Deduct	-19.59	
For >500 To 1,000, Deduct	-40.71	
For >1,000, Deduct	-59.36	
21 13 13 00-0188 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable Chrome Coverplate.....	223.48	25.11
For >25 To 50, Deduct	-5.02	
For >50 To 100, Deduct	-16.20	
For >100 To 500, Deduct	-30.45	
For >500 To 1,000, Deduct	-57.30	
For >1,000, Deduct	-77.39	
21 13 13 00-0189 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable White Coverplate.....	223.48	25.11
For >25 To 50, Deduct	-5.02	
For >50 To 100, Deduct	-16.20	
For >100 To 500, Deduct	-30.45	
For >500 To 1,000, Deduct	-57.30	
For >1,000, Deduct	-77.39	
<b>21 13 13 00-0190 Concealed Horizontal Side Wall Wet-Pipe Sprinkler Heads</b> <small>(21 13 13 00-0169)</small>		
21 13 13 00-0191 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	157.60	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-12.18	
For >100 To 500, Deduct	-21.85	
For >500 To 1,000, Deduct	-43.00	
For >1,000, Deduct	-60.22	
21 13 13 00-0192 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	176.71	23.32
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.66	
For >50 To 100, Deduct	-13.50	
For >100 To 500, Deduct	-24.42	
For >500 To 1,000, Deduct	-47.67	
For >1,000, Deduct	-66.32	
21 13 13 00-0193 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Extended Coverage, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	127.83	21.53
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.30	
For >50 To 100, Deduct	-10.70	
For >100 To 500, Deduct	-18.13	
For >500 To 1,000, Deduct	-37.64	
For >1,000, Deduct	-54.86	
21 13 13 00-0194 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	130.49	23.32
Note: Excludes coverplate		
For >25 To 50, Deduct	-4.66	
For >50 To 100, Deduct	-11.19	
For >100 To 500, Deduct	-18.64	
For >500 To 1,000, Deduct	-39.35	
For >1,000, Deduct	-58.00	

**21 13 13 00-0195 Institutional Tamper Resistant Wet Pipe Sprinkler Heads** (21 13 13 00-0024)

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0196	EA		1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler Head ..... 348.72	348.72	17.93
			Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.		
			For>25 To 50, Deduct	-3.59	
			For>50 To 100, Deduct	-21.02	
			For>100 To 500, Deduct	-45.38	
			For>500 To 1,000, Deduct	-74.97	
			For>1,000, Deduct	-89.32	
21 13 13 00-0197	EA		1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head ..... 340.72	340.72	17.93
			Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.		
			For>25 To 50, Deduct	-3.59	
			For>50 To 100, Deduct	-20.62	
			For>100 To 500, Deduct	-44.38	
			For>500 To 1,000, Deduct	-73.53	
			For>1,000, Deduct	-87.88	
21 13 13 00-0198	EA		1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler Head ..... 156.44	156.44	17.93
			For>25 To 50, Deduct	-3.59	
			For>50 To 100, Deduct	-11.41	
			For>100 To 500, Deduct	-21.35	
			For>500 To 1,000, Deduct	-40.36	
			For>1,000, Deduct	-54.71	
21 13 13 00-0199	EA		1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head ..... 173.04	173.04	17.93
			For>25 To 50, Deduct	-3.59	
			For>50 To 100, Deduct	-12.24	
			For>100 To 500, Deduct	-23.42	
			For>500 To 1,000, Deduct	-43.34	
			For>1,000, Deduct	-57.69	
21 13 13 00-0200			Wet Pipe Sprinkler Head Accessories (21 13 13 00-0011)		
21 13 13 00-0201			Sprinkler Adjustable Steel Drop Nipple (21 13 13 00-0200)		
21 13 13 00-0202	EA		1" Male NPT x 1/2" Female NPT x 4.125" Minimum Length To 5.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M1.150) ..... 60.03	60.03	16.84
			For>25 To 50, Deduct	-1.40	
			For>50 To 100, Deduct	-4.41	
			For>100 To 500, Deduct	-8.21	
			For>500 To 1,000, Deduct	-15.58	
			For>1,000, Deduct	-21.19	
21 13 13 00-0203	EA		1" Male NPT x 1/2" Female NPT x 6.125" Minimum Length To 9.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M3.150) ..... 60.03	60.03	16.84
			For>25 To 50, Deduct	-1.40	
			For>50 To 100, Deduct	-4.41	
			For>100 To 500, Deduct	-8.21	
			For>500 To 1,000, Deduct	-15.58	
			For>1,000, Deduct	-21.19	
21 13 13 00-0204	EA		1" Male NPT x 1/2" Female NPT x 7.875" Minimum Length To 10.875" Maximum Length, Adjustable Steel Drop Nipple (Anvil ME3.150) ..... 60.68	60.68	16.84
			For>25 To 50, Deduct	-1.40	
			For>50 To 100, Deduct	-4.44	
			For>100 To 500, Deduct	-8.29	
			For>500 To 1,000, Deduct	-15.69	
			For>1,000, Deduct	-21.31	
21 13 13 00-0205	EA		1" Female NPT x 1/2" Female NPT x 3.5" Minimum Length To 4.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F1.150) ..... 53.95	53.95	16.84
			For>25 To 50, Deduct	-1.40	
			For>50 To 100, Deduct	-4.10	
			For>100 To 500, Deduct	-7.45	
			For>500 To 1,000, Deduct	-14.48	
			For>1,000, Deduct	-20.10	
21 13 13 00-0206	EA		1" Female NPT x 1/2" Female NPT x 4.5" Minimum Length To 6.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F2.150) ..... 53.95	53.95	16.84
			For>25 To 50, Deduct	-1.40	
			For>50 To 100, Deduct	-4.10	
			For>100 To 500, Deduct	-7.45	
			For>500 To 1,000, Deduct	-14.48	
			For>1,000, Deduct	-20.10	
21 13 13 00-0207	EA		1" Female NPT x 1/2" Female NPT x 5.5" Minimum Length To 8.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.150) ..... 53.95	53.95	16.84
			For>25 To 50, Deduct	-1.40	
			For>50 To 100, Deduct	-4.10	
			For>100 To 500, Deduct	-7.45	
			For>500 To 1,000, Deduct	-14.48	
			For>1,000, Deduct	-20.10	
21 13 13 00-0208	EA		1" Female NPT x 3/4" Female NPT x 7.35" Minimum Length To 10.35" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.175) ..... 60.16	60.16	18.31
			For>25 To 50, Deduct	-1.53	
			For>50 To 100, Deduct	-4.53	
			For>100 To 500, Deduct	-8.28	
			For>500 To 1,000, Deduct	-16.02	
			For>1,000, Deduct	-22.12	
21 13 13 00-0209			Sprinkler Head Escutcheon (21 13 13 00-0200)		





	<b>Fire Suppression</b>	<b>21</b>
	<b>Water-Based Fire-Suppression Systems</b>	<b>21 10</b>
	<b>Fire-Suppression Sprinkler Systems</b>	<b>21 13</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0210	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon.....	23.86	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.73	
			<i>For &gt;100 To 500, Deduct</i>	-3.25	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.12	
			<i>For &gt;1,000, Deduct</i>	-8.28	
21 13 13 00-0211	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon .....	17.25	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100 To 500, Deduct</i>	-2.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.93	
			<i>For &gt;1,000, Deduct</i>	-7.09	
21 13 13 00-0212	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon.....	17.25	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100 To 500, Deduct</i>	-2.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.93	
			<i>For &gt;1,000, Deduct</i>	-7.09	
21 13 13 00-0213	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon.....	23.86	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.73	
			<i>For &gt;100 To 500, Deduct</i>	-3.25	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.12	
			<i>For &gt;1,000, Deduct</i>	-8.28	
21 13 13 00-0214	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon .....	17.25	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100 To 500, Deduct</i>	-2.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.93	
			<i>For &gt;1,000, Deduct</i>	-7.09	
21 13 13 00-0215	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon.....	17.25	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100 To 500, Deduct</i>	-2.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.93	
			<i>For &gt;1,000, Deduct</i>	-7.09	
21 13 13 00-0216	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon.....	22.66	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.67	
			<i>For &gt;100 To 500, Deduct</i>	-3.10	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.91	
			<i>For &gt;1,000, Deduct</i>	-8.06	
21 13 13 00-0217	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon .....	17.25	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100 To 500, Deduct</i>	-2.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.93	
			<i>For &gt;1,000, Deduct</i>	-7.09	
21 13 13 00-0218	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon.....	17.25	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100 To 500, Deduct</i>	-2.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.93	
			<i>For &gt;1,000, Deduct</i>	-7.09	
21 13 13 00-0219	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon.....	22.66	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.67	
			<i>For &gt;100 To 500, Deduct</i>	-3.10	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.91	
			<i>For &gt;1,000, Deduct</i>	-8.06	
21 13 13 00-0220	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon .....	17.25	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100 To 500, Deduct</i>	-2.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.93	
			<i>For &gt;1,000, Deduct</i>	-7.09	
21 13 13 00-0221	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon.....	17.25	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100 To 500, Deduct</i>	-2.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.93	
			<i>For &gt;1,000, Deduct</i>	-7.09	
21 13 13 00-0222	EA		3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off Chrome Sprinkler Head Recessed Escutcheon.....	23.26	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.70	
			<i>For &gt;100 To 500, Deduct</i>	-3.18	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.02	
			<i>For &gt;1,000, Deduct</i>	-8.17	
21 13 13 00-0223	EA		3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off White Sprinkler Head Recessed Escutcheon.....	23.26	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.70	
			<i>For &gt;100 To 500, Deduct</i>	-3.18	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.02	
			<i>For &gt;1,000, Deduct</i>	-8.17	

**21 Fire Suppression**  
**21 10 Water-Based Fire-Suppression Systems**  
**21 13 Fire-Suppression Sprinkler Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0224	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Brass Sprinkler Head Escutcheon .....	9.82	4.74
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.85	
			<i>For &gt;100 To 500, Deduct</i>	-1.41	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.99	
			<i>For &gt;1,000, Deduct</i>	-4.42	
21 13 13 00-0225	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon .....	8.99	4.74
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.81	
			<i>For &gt;100 To 500, Deduct</i>	-1.30	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.84	
			<i>For &gt;1,000, Deduct</i>	-4.27	
21 13 13 00-0226	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon .....	9.21	4.74
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.82	
			<i>For &gt;100 To 500, Deduct</i>	-1.33	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.88	
			<i>For &gt;1,000, Deduct</i>	-4.31	
21 13 13 00-0227	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Brass Sprinkler Head Escutcheon .....	9.97	4.74
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.86	
			<i>For &gt;100 To 500, Deduct</i>	-1.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.01	
			<i>For &gt;1,000, Deduct</i>	-4.45	
21 13 13 00-0228	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Chrome Sprinkler Head Escutcheon .....	9.14	4.74
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.82	
			<i>For &gt;100 To 500, Deduct</i>	-1.32	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.86	
			<i>For &gt;1,000, Deduct</i>	-4.30	
21 13 13 00-0229	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, White Sprinkler Head Escutcheon .....	9.14	4.74
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.82	
			<i>For &gt;100 To 500, Deduct</i>	-1.32	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.86	
			<i>For &gt;1,000, Deduct</i>	-4.30	
21 13 13 00-0230	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Bright Brass Sprinkler Head Escutcheon .....	10.83	4.74
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.90	
			<i>For &gt;100 To 500, Deduct</i>	-1.53	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.17	
			<i>For &gt;1,000, Deduct</i>	-4.60	
21 13 13 00-0231	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon .....	9.11	4.74
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.81	
			<i>For &gt;100 To 500, Deduct</i>	-1.32	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.86	
			<i>For &gt;1,000, Deduct</i>	-4.29	
21 13 13 00-0232	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon .....	9.11	4.74
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-0.81	
			<i>For &gt;100 To 500, Deduct</i>	-1.32	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.86	
			<i>For &gt;1,000, Deduct</i>	-4.29	
21 13 13 00-0233	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Telescoping Escutcheon .....	14.67	6.63
			<i>For &gt;25 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.24	
			<i>For &gt;100 To 500, Deduct</i>	-2.09	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.35	
			<i>For &gt;1,000, Deduct</i>	-6.36	
21 13 13 00-0234	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Telescoping Escutcheon .....	14.21	6.63
			<i>For &gt;25 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.21	
			<i>For &gt;100 To 500, Deduct</i>	-2.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.27	
			<i>For &gt;1,000, Deduct</i>	-6.28	
21 13 13 00-0235	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, White Sprinkler Head Telescoping Escutcheon .....	14.36	6.63
			<i>For &gt;25 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.22	
			<i>For &gt;100 To 500, Deduct</i>	-2.05	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.29	
			<i>For &gt;1,000, Deduct</i>	-6.30	
21 13 13 00-0236	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Telescoping Escutcheon .....	14.82	6.63
			<i>For &gt;25 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.24	
			<i>For &gt;100 To 500, Deduct</i>	-2.10	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.38	
			<i>For &gt;1,000, Deduct</i>	-6.39	



<b>Fire Suppression</b>	<b>21</b>	<b>12</b>
<b>Water-Based Fire-Suppression Systems</b>	<b>21 10</b>	
<b>Fire-Suppression Sprinkler Systems</b>	<b>21 13</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0237	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Telescoping Escutcheon.....	14.36	6.63
			<i>For &gt;25 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.22	
			<i>For &gt;100 To 500, Deduct</i>	-2.05	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.29	
			<i>For &gt;1,000, Deduct</i>	-6.30	
21 13 13 00-0238	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, White Sprinkler Head Telescoping Escutcheon.....	14.67	6.63
			<i>For &gt;25 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.24	
			<i>For &gt;100 To 500, Deduct</i>	-2.09	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.35	
			<i>For &gt;1,000, Deduct</i>	-6.36	
21 13 13 00-0239	EA		Flat Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head .....	28.71	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.97	
			<i>For &gt;100 To 500, Deduct</i>	-3.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.00	
			<i>For &gt;1,000, Deduct</i>	-9.15	
21 13 13 00-0240	EA		Flat White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head .....	28.71	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.97	
			<i>For &gt;100 To 500, Deduct</i>	-3.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.00	
			<i>For &gt;1,000, Deduct</i>	-9.15	
21 13 13 00-0241	EA		Conical Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head .....	28.71	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.97	
			<i>For &gt;100 To 500, Deduct</i>	-3.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.00	
			<i>For &gt;1,000, Deduct</i>	-9.15	
21 13 13 00-0242	EA		Conical White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head .....	28.71	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.97	
			<i>For &gt;100 To 500, Deduct</i>	-3.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.00	
			<i>For &gt;1,000, Deduct</i>	-9.15	
21 13 13 00-0243	EA		Chrome Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head .....	28.71	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.97	
			<i>For &gt;100 To 500, Deduct</i>	-3.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.00	
			<i>For &gt;1,000, Deduct</i>	-9.15	
21 13 13 00-0244	EA		White Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head .....	28.71	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.97	
			<i>For &gt;100 To 500, Deduct</i>	-3.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.00	
			<i>For &gt;1,000, Deduct</i>	-9.15	
21 13 13 00-0245	EA		2-Piece Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head .....	32.81	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-2.18	
			<i>For &gt;100 To 500, Deduct</i>	-4.37	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.74	
			<i>For &gt;1,000, Deduct</i>	-9.89	
21 13 13 00-0246	EA		2-Piece White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head .....	33.77	6.46
			<i>For &gt;25 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-2.23	
			<i>For &gt;100 To 500, Deduct</i>	-4.49	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.91	
			<i>For &gt;1,000, Deduct</i>	-10.06	
21 13 13 00-0247			<b>Coverplate For Sprinkler Heads</b> (21 13 13 00-0200)		
21 13 13 00-0248	EA		Chrome Coverplate For Concealed Pendent Sprinkler Head .....	65.56	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-3.89	
			<i>For &gt;100 To 500, Deduct</i>	-8.50	
			<i>For &gt;500 To 1,000, Deduct</i>	-13.87	
			<i>For &gt;1,000, Deduct</i>	-16.31	
21 13 13 00-0249	EA		White Coverplate For Concealed Pendent Sprinkler Head .....	33.00	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-2.26	
			<i>For &gt;100 To 500, Deduct</i>	-4.43	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.01	
			<i>For &gt;1,000, Deduct</i>	-10.45	
21 13 13 00-0250	EA		Specialty Coverplate For Concealed Pendent Sprinkler Head .....	47.12	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-2.97	
			<i>For &gt;100 To 500, Deduct</i>	-6.20	
			<i>For &gt;500 To 1,000, Deduct</i>	-10.56	
			<i>For &gt;1,000, Deduct</i>	-13.00	

**21 Fire Suppression**  
**21 10 Water-Based Fire-Suppression Systems**  
**21 13 Fire-Suppression Sprinkler Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0251	EA		Brass Coverplate For Concealed Sidewall Sprinkler Head.....	43.45	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-2.78	
			<i>For &gt;100 To 500, Deduct</i>	-5.74	
			<i>For &gt;500 To 1,000, Deduct</i>	-9.90	
			<i>For &gt;1,000, Deduct</i>	-12.34	
21 13 13 00-0252	EA		Chrome Coverplate For Concealed Sidewall Sprinkler Head .....	35.14	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-2.37	
			<i>For &gt;100 To 500, Deduct</i>	-4.70	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.40	
			<i>For &gt;1,000, Deduct</i>	-10.84	
21 13 13 00-0253	EA		White Coverplate For Concealed Sidewall Sprinkler Head.....	35.14	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-2.37	
			<i>For &gt;100 To 500, Deduct</i>	-4.70	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.40	
			<i>For &gt;1,000, Deduct</i>	-10.84	
21 13 13 00-0254	EA		Off-White Coverplate For Concealed Sidewall Sprinkler Head.....	43.45	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-2.78	
			<i>For &gt;100 To 500, Deduct</i>	-5.74	
			<i>For &gt;500 To 1,000, Deduct</i>	-9.90	
			<i>For &gt;1,000, Deduct</i>	-12.34	
21 13 13 00-0255	EA		Black Painted Coverplate For Concealed Sidewall Sprinkler Head.....	43.45	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-2.78	
			<i>For &gt;100 To 500, Deduct</i>	-5.74	
			<i>For &gt;500 To 1,000, Deduct</i>	-9.90	
			<i>For &gt;1,000, Deduct</i>	-12.34	
21 13 13 00-0256	EA		Black Plated Coverplate For Concealed Sidewall Sprinkler Head .....	50.04	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-3.11	
			<i>For &gt;100 To 500, Deduct</i>	-6.56	
			<i>For &gt;500 To 1,000, Deduct</i>	-11.08	
			<i>For &gt;1,000, Deduct</i>	-13.52	
21 13 13 00-0257	EA		Bright Brass Coverplate For Concealed Sidewall Sprinkler Head.....	50.04	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-3.11	
			<i>For &gt;100 To 500, Deduct</i>	-6.56	
			<i>For &gt;500 To 1,000, Deduct</i>	-11.08	
			<i>For &gt;1,000, Deduct</i>	-13.52	
21 13 13 00-0258	EA		Satin Chrome Coverplate For Concealed Sidewall Sprinkler Head.....	50.04	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-3.11	
			<i>For &gt;100 To 500, Deduct</i>	-6.56	
			<i>For &gt;500 To 1,000, Deduct</i>	-11.08	
			<i>For &gt;1,000, Deduct</i>	-13.52	
21 13 13 00-0259	EA		Specialty Coverplate For Concealed Sidewall Sprinkler Head.....	43.49	7.32
			<i>For &gt;25 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-2.78	
			<i>For &gt;100 To 500, Deduct</i>	-5.74	
			<i>For &gt;500 To 1,000, Deduct</i>	-9.90	
			<i>For &gt;1,000, Deduct</i>	-12.34	
21 13 13 00-0260	EA		White Coverplate For Quick Release Concealed Sidewall Sprinkler Head.....	73.04	8.61
			<i>For &gt;25 To 50, Deduct</i>	-0.72	
			<i>For &gt;50 To 100, Deduct</i>	-4.37	
			<i>For &gt;100 To 500, Deduct</i>	-9.49	
			<i>For &gt;500 To 1,000, Deduct</i>	-15.59	
			<i>For &gt;1,000, Deduct</i>	-18.46	
21 13 13 00-0261			<b>Sprinkler Escutcheon Extension Tube</b> <small>(21 13 13 00-0200)</small>		
21 13 13 00-0262	EA		2.18" Diameter x 4" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	17.49	4.31
			Note: For use with 2 piece escutcheons		
			<i>For &gt;25 To 50, Deduct</i>	-0.36	
			<i>For &gt;50 To 100, Deduct</i>	-1.23	
			<i>For &gt;100 To 500, Deduct</i>	-2.37	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.37	
			<i>For &gt;1,000, Deduct</i>	-5.80	
21 13 13 00-0263	EA		2.18" Diameter x 6" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	22.44	4.52
			Note: For use with 2 piece escutcheons		
			<i>For &gt;25 To 50, Deduct</i>	-0.38	
			<i>For &gt;50 To 100, Deduct</i>	-1.50	
			<i>For &gt;100 To 500, Deduct</i>	-2.99	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.32	
			<i>For &gt;1,000, Deduct</i>	-6.83	
21 13 13 00-0264	EA		2.18" Diameter x 8" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	27.97	4.74
			Note: For use with 2 piece escutcheons		
			<i>For &gt;25 To 50, Deduct</i>	-0.40	
			<i>For &gt;50 To 100, Deduct</i>	-1.79	
			<i>For &gt;100 To 500, Deduct</i>	-3.69	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.38	
			<i>For &gt;1,000, Deduct</i>	-7.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0265 EA 2.18" Diameter x 10" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube .....	32.90	4.95
Note: For use with 2 piece escutcheons		
For >25 To 50, Deduct	-0.41	
For >50 To 100, Deduct	-2.06	
For >100 To 500, Deduct	-4.32	
For >500 To 1,000, Deduct	-7.32	
For >1,000, Deduct	-8.97	
<b>21 13 13 00-0266 Sprinkler Head Guards</b> <small>(21 13 13 00-0200)</small>		
21 13 13 00-0267 EA Universal Sprinkler Head Guard, C-1 .....	28.10	12.92
For >25 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.48	
For >100 To 500, Deduct	-4.05	
For >500 To 1,000, Deduct	-8.72	
For >1,000, Deduct	-13.02	
21 13 13 00-0268 EA Dry Pendent Sprinkler Head Guard, C-2 .....	30.64	12.92
For >25 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.61	
For >100 To 500, Deduct	-4.37	
For >500 To 1,000, Deduct	-9.18	
For >1,000, Deduct	-13.48	
21 13 13 00-0269 EA Upright Sprinkler Head Guard With Water Shield, C-3 .....	34.98	12.92
For >25 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.83	
For >100 To 500, Deduct	-4.91	
For >500 To 1,000, Deduct	-9.96	
For >1,000, Deduct	-14.26	
21 13 13 00-0270 EA Pendent Sprinkler Head Guard With Water Shield, C-5 .....	40.33	12.92
For >25 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-3.09	
For >100 To 500, Deduct	-5.58	
For >500 To 1,000, Deduct	-10.92	
For >1,000, Deduct	-15.23	
21 13 13 00-0271 EA Universal Sprinkler Head Guard, D-1 .....	30.54	12.92
For >25 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.60	
For >100 To 500, Deduct	-4.36	
For >500 To 1,000, Deduct	-9.16	
For >1,000, Deduct	-13.46	
21 13 13 00-0272 EA Upright Sprinkler Head Guard With Water Shield, D-3 .....	32.19	12.92
For >25 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-2.69	
For >100 To 500, Deduct	-4.56	
For >500 To 1,000, Deduct	-9.45	
For >1,000, Deduct	-13.76	
21 13 13 00-0273 EA Pendent Sprinkler Head Guard With Large Water Shield, D-4 .....	44.46	12.92
For >25 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-3.30	
For >100 To 500, Deduct	-6.10	
For >500 To 1,000, Deduct	-11.66	
For >1,000, Deduct	-15.97	
21 13 13 00-0274 EA Pendent Sprinkler Head Guard With Small Water Shield, D-5 .....	42.00	12.92
For >25 To 50, Deduct	-1.08	
For >50 To 100, Deduct	-3.18	
For >100 To 500, Deduct	-5.79	
For >500 To 1,000, Deduct	-11.22	
For >1,000, Deduct	-15.53	
<b>21 13 13 00-0275 Replacement Sprinkler Escutcheon</b> <small>(21 13 13 00-0200)</small>		
21 13 13 00-0276 EA Push On, Brass Replacement Sprinkler Escutcheon .....	12.85	4.74
For >25 To 50, Deduct	-0.36	
For >50 To 100, Deduct	-1.00	
For >100 To 500, Deduct	-1.79	
For >500 To 1,000, Deduct	-3.53	
For >1,000, Deduct	-4.97	
21 13 13 00-0277 EA Push On, Chrome Replacement Sprinkler Escutcheon .....	12.77	4.74
For >25 To 50, Deduct	-0.36	
For >50 To 100, Deduct	-1.00	
For >100 To 500, Deduct	-1.78	
For >500 To 1,000, Deduct	-3.52	
For >1,000, Deduct	-4.95	
21 13 13 00-0278 EA Push On, White Replacement Sprinkler Escutcheon .....	12.77	4.74
For >25 To 50, Deduct	-0.36	
For >50 To 100, Deduct	-1.00	
For >100 To 500, Deduct	-1.78	
For >500 To 1,000, Deduct	-3.52	
For >1,000, Deduct	-4.95	
21 13 13 00-0279 EA Flush, Brass Replacement Sprinkler Escutcheon .....	12.77	4.74
For >25 To 50, Deduct	-0.36	
For >50 To 100, Deduct	-1.00	
For >100 To 500, Deduct	-1.78	
For >500 To 1,000, Deduct	-3.52	
For >1,000, Deduct	-4.95	

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0280 EA Flush, Chrome Replacement Sprinkler Escutcheon .....	12.77	4.74
For>25 To 50, Deduct	-0.36	
For>50 To 100, Deduct	-1.00	
For>100 To 500, Deduct	-1.78	
For>500 To 1,000, Deduct	-3.52	
For>1,000, Deduct	-4.95	
21 13 13 00-0281 EA Flush, White Replacement Sprinkler Escutcheon .....	15.27	4.74
For>25 To 50, Deduct	-0.36	
For>50 To 100, Deduct	-1.12	
For>100 To 500, Deduct	-2.09	
For>500 To 1,000, Deduct	-3.97	
For>1,000, Deduct	-5.40	
21 13 13 00-0282 EA Deep, Brass Replacement Sprinkler Escutcheon .....	12.77	4.74
For>25 To 50, Deduct	-0.36	
For>50 To 100, Deduct	-1.00	
For>100 To 500, Deduct	-1.78	
For>500 To 1,000, Deduct	-3.52	
For>1,000, Deduct	-4.95	
21 13 13 00-0283 EA Deep, Chrome Replacement Sprinkler Escutcheon .....	12.77	4.74
For>25 To 50, Deduct	-0.36	
For>50 To 100, Deduct	-1.00	
For>100 To 500, Deduct	-1.78	
For>500 To 1,000, Deduct	-3.52	
For>1,000, Deduct	-4.95	
21 13 13 00-0284 EA Deep, White Replacement Sprinkler Escutcheon .....	12.77	4.74
For>25 To 50, Deduct	-0.36	
For>50 To 100, Deduct	-1.00	
For>100 To 500, Deduct	-1.78	
For>500 To 1,000, Deduct	-3.52	
For>1,000, Deduct	-4.95	
<b>21 13 13 00-0285 Pendent Shield And O-Ring Assembly (21 13 13 00-0200)</b>		
21 13 13 00-0286 EA Pendent Shield And O-Ring Assembly .....	21.09	9.48
For>25 To 50, Deduct	-0.72	
For>50 To 100, Deduct	-1.77	
For>100 To 500, Deduct	-3.00	
For>500 To 1,000, Deduct	-6.24	
For>1,000, Deduct	-9.11	
<b>21 13 13 00-0287 Replacement Insulating Sealing Assembly (21 13 13 00-0200)</b>		
21 13 13 00-0288 EA Insulating Sealing Assembly .....	83.54	21.53
For>100 To 500, Deduct	-11.52	
For>500 To 1,000, Deduct	-22.36	
<b>21 13 13 00-0289 Flexible Sprinkler Piping (21 13 13 00-0011)</b>		
Note: 1" Diameter stainless steel flexible pipe with either 1/2" or 3/4" outlet.		
21 13 13 00-0290 EA 2' Long, 3/4" Stainless Steel Flexible Sprinkler Piping .....	86.15	22.24
Note: Includes ceiling mounting bracket.		
For>25 To 50, Deduct	-2.24	
For>50 To 100, Deduct	-6.55	
For>100 To 500, Deduct	-11.89	
For>500 To 1,000, Deduct	-23.13	
For>1,000, Deduct	-32.10	
21 13 13 00-0291 EA 3' Long, 3/4" Stainless Steel Flexible Sprinkler Piping .....	94.81	22.96
Note: Includes ceiling mounting bracket.		
For>25 To 50, Deduct	-2.36	
For>50 To 100, Deduct	-7.10	
For>100 To 500, Deduct	-13.03	
For>500 To 1,000, Deduct	-25.09	
For>1,000, Deduct	-34.53	
21 13 13 00-0292 EA 4' Long, 3/4" Stainless Steel Flexible Sprinkler Piping .....	103.68	24.39
Note: Includes ceiling mounting bracket.		
For>25 To 50, Deduct	-2.49	
For>50 To 100, Deduct	-7.68	
For>100 To 500, Deduct	-14.21	
For>500 To 1,000, Deduct	-27.13	
For>1,000, Deduct	-37.10	
21 13 13 00-0293 EA 5' Long, 3/4" Stainless Steel Flexible Sprinkler Piping .....	112.91	25.83
Note: Includes ceiling mounting bracket.		
For>25 To 50, Deduct	-2.64	
For>50 To 100, Deduct	-8.28	
For>100 To 500, Deduct	-15.43	
For>500 To 1,000, Deduct	-29.29	
For>1,000, Deduct	-39.85	
21 13 13 00-0294 EA 6' Long, 3/4" Stainless Steel Flexible Sprinkler Piping .....	122.49	28.70
Note: Includes ceiling mounting bracket.		
For>25 To 50, Deduct	-2.80	
For>50 To 100, Deduct	-8.93	
For>100 To 500, Deduct	-16.71	
For>500 To 1,000, Deduct	-31.58	
For>1,000, Deduct	-42.79	



<b>Fire Suppression</b>	<b>21</b>	<b>21</b>
<b>Water-Based Fire-Suppression Systems</b>	<b>21 10</b>	
<b>Fire-Suppression Sprinkler Systems</b>	<b>21 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>21 13 13 00-0295 Sprinkler Emergency Cabinets</b> <small>(21 13 13 00-0011)</small>		
21 13 13 00-0296 EA 3 Capacity Emergency Sprinkler Cabinet, A4.....	150.93	
21 13 13 00-0297 EA 6 Capacity Emergency Sprinkler Cabinet, A4.....	158.10	
21 13 13 00-0298 EA 12 Capacity Emergency Sprinkler Cabinet, A4.....	168.68	
21 13 13 00-0299 EA 12 Capacity Emergency Sprinkler Cabinet, A3.....	535.91	
21 13 13 00-0300 EA Sprinkler Wrench, RC1.....	261.88	
21 13 13 00-0301 EA Sprinkler Wrench, FC.....	260.87	
21 13 13 00-0302 EA Sprinkler Wrench, W2.....	86.62	
<b>21 13 16 Dry-Pipe Sprinkler Systems</b> <small>(21 13)</small>		
<b>21 13 16 00-0001 Complete Dry Pipe Sprinkler Systems Assembly</b> <small>(21 13 16)</small>		
Note: Includes all branch line piping (standard weight threaded black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. Not for use where detail is available. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1411 for individual grooved pipe, 23 21 13 23-1484 for individual grooved pipe fittings.		
<b>21 13 16 00-0002 Light Hazard, Dry-Pipe Sprinkler System Assemblies</b> <small>(21 13 16 00-0001)</small>		
21 13 16 00-0003 EA Exposed Piping, Light Hazard, Per Head, Dry-Pipe Sprinkler System Assembly.....	1,176.80	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	521.09	
For >5 To 10, Add	243.60	
For >10 To 20, Add	193.23	
For >20 To 40, Add	84.02	
For >100 To 150, Deduct	-117.68	
For >150, Deduct	-235.36	
For Copper Pipe, Add	151.34	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-210.18	
21 13 16 00-0004 EA Concealed Piping, Light Hazard, Per Head, Dry-Pipe Sprinkler System Assembly.....	1,406.75	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	631.02	
For >5 To 10, Add	311.48	
For >10 To 20, Add	243.16	
For >20 To 40, Add	104.50	
For >100 To 150, Deduct	-140.68	
For >150, Deduct	-281.35	
For Copper Pipe, Add	176.85	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-247.19	
For Work In Restricted Working Space, Add	204.97	
<b>21 13 16 00-0005 Ordinary Hazard, Dry-Pipe Sprinkler System Assemblies</b> <small>(21 13 16 00-0001)</small>		
21 13 16 00-0006 EA Exposed Piping, Ordinary Hazard, Per Head, Dry-Pipe Sprinkler System Assembly.....	1,138.47	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	505.13	
For >5 To 10, Add	238.19	
For >10 To 20, Add	188.46	
For >20 To 40, Add	81.79	
For >100 To 150, Deduct	-113.85	
For >150, Deduct	-227.69	
For Copper Pipe, Add	145.90	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-202.82	
21 13 16 00-0007 EA Concealed Piping, Ordinary Hazard, Per Head, Dry-Pipe Sprinkler System Assembly.....	1,364.11	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	613.14	
For >5 To 10, Add	305.15	
For >10 To 20, Add	237.66	
For >20 To 40, Add	101.95	
For >100 To 150, Deduct	-136.41	
For >150, Deduct	-272.82	
For Copper Pipe, Add	170.87	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-239.07	
For Work In Restricted Working Space, Add	202.49	
<b>21 13 16 00-0008 Extra Hazard, Dry-Pipe Sprinkler System Assemblies</b> <small>(21 13 16 00-0001)</small>		
21 13 16 00-0009 EA Exposed Piping, Extra Hazard, Per Head, Dry-Pipe Sprinkler System Assembly.....	1,070.93	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	474.72	
For >5 To 10, Add	222.97	
For >10 To 20, Add	176.62	
For >20 To 40, Add	76.72	
For >100 To 150, Deduct	-107.09	
For >150, Deduct	-214.19	
For Copper Pipe, Add	137.47	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-191.01	

<b>21</b>	<b>21</b>	<b>Fire Suppression</b>
	<b>21 10</b>	<b>Water-Based Fire-Suppression Systems</b>
	<b>21 13</b>	<b>Fire-Suppression Sprinkler Systems</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0010	EA	Concealed Piping, Extra Hazard, Per Head, Dry-Pipe Sprinkler System Assembly .....	1,269.57	
		Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
		For Up To 5, Add	570.70	
		For >5 To 10, Add	284.13	
		For >10 To 20, Add	221.26	
		For >20 To 40, Add	94.91	
		For >100 To 150, Deduct	-126.96	
		For >150, Deduct	-253.91	
		For Copper Pipe, Add	159.00	
		For Polyvinyl Chloride (PVC) Pipe, Deduct	-222.48	
		For Work In Restricted Working Space, Add	188.61	
21 13 16 00-0011		<b>Dry-Pipe Sprinkler System Compressors</b> (21 13 16 00-0001)		
21 13 16 00-0012	EA	Dry System Air Compressor, 3/4 HP With Alarm Valve Flange With Gauge .....	2,767.80	415.16
21 13 16 00-0013	EA	Dry System Air Compressor, 1 HP With Alarm Valve Flange With Gauge .....	2,883.48	415.16
21 13 16 00-0014	EA	Dry System Air Compressor, 1-1/2 HP With Alarm Valve Flange With Gauge .....	2,981.08	415.16
21 13 16 00-0015	EA	Dry System Air Compressor, 2 HP With Alarm Valve Flange With Gauge .....	3,360.63	415.16
21 13 16 00-0016		<b>Dry Pipe Sprinkler System Components</b> (21 13 16)		
21 13 16 00-0017		<b>Dry Pipe Valves</b> (21 13 16 00-0016)		
		Note: Excludes trim package See CSI section 21 13 16 00-0022 for Dry Pipe Valve Trim.		
21 13 16 00-0018	EA	2-1/2" Dry Pipe Valve.....	4,236.93	167.79
21 13 16 00-0019	EA	3" Dry Pipe Valve.....	4,717.76	192.20
21 13 16 00-0020	EA	4" Dry Pipe Valve.....	5,271.89	326.44
21 13 16 00-0021	EA	6" Dry Pipe Valve.....	6,685.31	411.86
21 13 16 00-0022		<b>Dry Pipe Valve Trim</b> (21 13 16 00-0016)		
		Note: Includes gauges, pressure switch, air supply and drain lines.		
21 13 16 00-0023	EA	2-1/2" Dry Pipe Valve Trim.....	1,975.40	355.12
21 13 16 00-0024	EA	3" Dry Pipe Valve Trim.....	1,975.40	355.12
21 13 16 00-0025	EA	4" Dry Pipe Valve Trim.....	2,296.08	486.92
21 13 16 00-0026	EA	6" Dry Pipe Valve Trim.....	2,613.37	677.29
21 13 16 00-0027		<b>Recessed Pendent Dry Pipe Sprinkler Heads, Quick Response</b> (21 13 16 00-0016)		
21 13 16 00-0028	EA	3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head .....	259.93	28.42
		For >25 To 50, Deduct	-4.31	
		For >50 To 100, Deduct	-17.30	
		For >100 To 500, Deduct	-34.64	
		For >500 To 1,000, Deduct	-61.42	
		For >1,000, Deduct	-78.64	
21 13 16 00-0029	EA	6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	269.94	28.42
		For >25 To 50, Deduct	-4.31	
		For >50 To 100, Deduct	-17.80	
		For >100 To 500, Deduct	-35.90	
		For >500 To 1,000, Deduct	-63.23	
		For >1,000, Deduct	-80.45	
21 13 16 00-0030	EA	9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	279.96	28.42
		For >25 To 50, Deduct	-4.31	
		For >50 To 100, Deduct	-18.30	
		For >100 To 500, Deduct	-37.15	
		For >500 To 1,000, Deduct	-65.03	
		For >1,000, Deduct	-82.25	
21 13 16 00-0031	EA	12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	290.00	28.42
		For >25 To 50, Deduct	-4.31	
		For >50 To 100, Deduct	-18.81	
		For >100 To 500, Deduct	-38.40	
		For >500 To 1,000, Deduct	-66.84	
		For >1,000, Deduct	-84.06	
21 13 16 00-0032	EA	15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	300.02	28.42
		For >25 To 50, Deduct	-4.31	
		For >50 To 100, Deduct	-19.31	
		For >100 To 500, Deduct	-39.66	
		For >500 To 1,000, Deduct	-68.64	
		For >1,000, Deduct	-85.86	
21 13 16 00-0033	EA	18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	310.04	28.42
		For >25 To 50, Deduct	-4.31	
		For >50 To 100, Deduct	-19.81	
		For >100 To 500, Deduct	-40.91	
		For >500 To 1,000, Deduct	-70.44	
		For >1,000, Deduct	-87.66	
21 13 16 00-0034	EA	21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	320.05	28.42
		For >25 To 50, Deduct	-4.31	
		For >50 To 100, Deduct	-20.31	
		For >100 To 500, Deduct	-42.16	
		For >500 To 1,000, Deduct	-72.25	
		For >1,000, Deduct	-89.47	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0035 EA 24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	330.09	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-20.81	
For >100 To 500, Deduct	-43.41	
For >500 To 1,000, Deduct	-74.05	
For >1,000, Deduct	-91.27	
21 13 16 00-0036 EA 27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	340.10	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-21.31	
For >100 To 500, Deduct	-44.67	
For >500 To 1,000, Deduct	-75.86	
For >1,000, Deduct	-93.08	
21 13 16 00-0037 EA 30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	350.12	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-21.81	
For >100 To 500, Deduct	-45.92	
For >500 To 1,000, Deduct	-77.66	
For >1,000, Deduct	-94.88	
21 13 16 00-0038 EA 33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	360.16	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-22.31	
For >100 To 500, Deduct	-47.17	
For >500 To 1,000, Deduct	-79.47	
For >1,000, Deduct	-96.69	
21 13 16 00-0039 EA 36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	370.18	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-22.81	
For >100 To 500, Deduct	-48.43	
For >500 To 1,000, Deduct	-81.27	
For >1,000, Deduct	-98.49	
21 13 16 00-0040 EA 39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	380.22	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-23.32	
For >100 To 500, Deduct	-49.68	
For >500 To 1,000, Deduct	-83.08	
For >1,000, Deduct	-100.30	
21 13 16 00-0041 EA 42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	390.22	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-23.82	
For >100 To 500, Deduct	-50.93	
For >500 To 1,000, Deduct	-84.88	
For >1,000, Deduct	-102.10	
21 13 16 00-0042 EA 45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	400.25	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-24.32	
For >100 To 500, Deduct	-52.18	
For >500 To 1,000, Deduct	-86.68	
For >1,000, Deduct	-103.90	
<b>21 13 16 00-0043 Sidewall Dry Pipe Sprinkler Heads, Quick Response (21 13 16 00-0016)</b>		
21 13 16 00-0044 EA 3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....	257.51	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-17.18	
For >100 To 500, Deduct	-34.34	
For >500 To 1,000, Deduct	-60.99	
For >1,000, Deduct	-78.21	
21 13 16 00-0045 EA 6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....	267.55	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-17.68	
For >100 To 500, Deduct	-35.60	
For >500 To 1,000, Deduct	-62.80	
For >1,000, Deduct	-80.02	
21 13 16 00-0046 EA 9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....	277.59	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-18.18	
For >100 To 500, Deduct	-36.85	
For >500 To 1,000, Deduct	-64.60	
For >1,000, Deduct	-81.82	
21 13 16 00-0047 EA 12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....	287.58	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-18.68	
For >100 To 500, Deduct	-38.10	
For >500 To 1,000, Deduct	-66.40	
For >1,000, Deduct	-83.62	
21 13 16 00-0048 EA 15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head .....	297.61	28.42
For >25 To 50, Deduct	-4.31	
For >50 To 100, Deduct	-19.19	
For >100 To 500, Deduct	-39.35	
For >500 To 1,000, Deduct	-68.21	
For >1,000, Deduct	-85.43	

**21 Fire Suppression**  
**21 10 Water-Based Fire-Suppression Systems**  
**21 13 Fire-Suppression Sprinkler Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0049	EA		18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	307.62	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-19.69	
			<i>For &gt;100 To 500, Deduct</i>	-40.61	
			<i>For &gt;500 To 1,000, Deduct</i>	-70.01	
			<i>For &gt;1,000, Deduct</i>	-87.23	
21 13 16 00-0050	EA		21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	317.67	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-20.19	
			<i>For &gt;100 To 500, Deduct</i>	-41.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-71.82	
			<i>For &gt;1,000, Deduct</i>	-89.04	
21 13 16 00-0051	EA		24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	327.69	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-20.69	
			<i>For &gt;100 To 500, Deduct</i>	-43.11	
			<i>For &gt;500 To 1,000, Deduct</i>	-73.62	
			<i>For &gt;1,000, Deduct</i>	-90.84	
21 13 16 00-0052	EA		27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	337.69	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-21.19	
			<i>For &gt;100 To 500, Deduct</i>	-44.36	
			<i>For &gt;500 To 1,000, Deduct</i>	-75.42	
			<i>For &gt;1,000, Deduct</i>	-92.64	
21 13 16 00-0053	EA		30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	347.71	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-21.69	
			<i>For &gt;100 To 500, Deduct</i>	-45.62	
			<i>For &gt;500 To 1,000, Deduct</i>	-77.22	
			<i>For &gt;1,000, Deduct</i>	-94.44	
21 13 16 00-0054	EA		33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	357.75	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-22.19	
			<i>For &gt;100 To 500, Deduct</i>	-46.87	
			<i>For &gt;500 To 1,000, Deduct</i>	-79.03	
			<i>For &gt;1,000, Deduct</i>	-96.25	
21 13 16 00-0055	EA		36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	367.76	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-22.69	
			<i>For &gt;100 To 500, Deduct</i>	-48.12	
			<i>For &gt;500 To 1,000, Deduct</i>	-80.83	
			<i>For &gt;1,000, Deduct</i>	-98.05	
21 13 16 00-0056	EA		39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	397.85	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-24.20	
			<i>For &gt;100 To 500, Deduct</i>	-51.88	
			<i>For &gt;500 To 1,000, Deduct</i>	-86.25	
			<i>For &gt;1,000, Deduct</i>	-103.47	
21 13 16 00-0057	EA		42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	407.87	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-24.70	
			<i>For &gt;100 To 500, Deduct</i>	-53.14	
			<i>For &gt;500 To 1,000, Deduct</i>	-88.05	
			<i>For &gt;1,000, Deduct</i>	-105.27	
21 13 16 00-0058	EA		45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	411.87	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.31	
			<i>For &gt;50 To 100, Deduct</i>	-24.90	
			<i>For &gt;100 To 500, Deduct</i>	-53.64	
			<i>For &gt;500 To 1,000, Deduct</i>	-88.77	
			<i>For &gt;1,000, Deduct</i>	-105.99	
21 13 16 00-0059			<b>Pendent Dry Pipe Sprinkler Head, Early Suppression, Fast Response</b> <small>(21 13 16 00-0016)</small>		
21 13 16 00-0060	EA		23" Length, 1-1/4" NPT Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	1,114.14	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.66	
			<i>For &gt;50 To 100, Deduct</i>	-60.37	
			<i>For &gt;100 To 500, Deduct</i>	-141.60	
			<i>For &gt;500 To 1,000, Deduct</i>	-216.40	
			<i>For &gt;1,000, Deduct</i>	-235.06	
21 13 16 00-0061	EA		30" Length, 1-1/4" NPT Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	1,114.14	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.66	
			<i>For &gt;50 To 100, Deduct</i>	-60.37	
			<i>For &gt;100 To 500, Deduct</i>	-141.60	
			<i>For &gt;500 To 1,000, Deduct</i>	-216.40	
			<i>For &gt;1,000, Deduct</i>	-235.06	
21 13 16 00-0062	EA		36" Length, 1-1/4" NPT Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	1,114.14	28.42
			<i>For &gt;25 To 50, Deduct</i>	-4.66	
			<i>For &gt;50 To 100, Deduct</i>	-60.37	
			<i>For &gt;100 To 500, Deduct</i>	-141.60	
			<i>For &gt;500 To 1,000, Deduct</i>	-216.40	
			<i>For &gt;1,000, Deduct</i>	-235.06	



<b>Fire Suppression</b>	<b>21</b>	<b>21</b>
<b>Water-Based Fire-Suppression Systems</b>	<b>21 10</b>	
<b>Fire-Suppression Sprinkler Systems</b>	<b>21 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0063 EA 36" Length, 1-1/4" ISO Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	1,114.14	28.42
For >25 To 50, Deduct	-4.66	
For >50 To 100, Deduct	-60.37	
For >100 To 500, Deduct	-141.60	
For >500 To 1,000, Deduct	-216.40	
For >1,000, Deduct	-235.06	
<b>21 13 19 Preaction Sprinkler Systems (21 13)</b>		
<b>21 13 19 00-0001 Complete Preaction Sprinkler Systems Assemblies (21 13 19)</b>		
Note: Includes all branch line piping (standard weight threaded black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. Not for use where detail is available. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components. See CSI section 23 21 13 23-1411 for individual grooved pipe, 23 21 13 23-1484 for individual grooved pipe fittings.		
<b>21 13 19 00-0002 Ordinary Hazard, Preaction Sprinkler System Assemblies (21 13 19 00-0001)</b>		
21 13 19 00-0003 EA Exposed Piping, Ordinary Hazard, Per Head, Preaction Sprinkler System Assembly .....	1,049.09	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	469.38	
For >5 To 10, Add	284.43	
For >10 To 20, Add	179.52	
For >20 To 40, Add	77.32	
For >100 To 150, Deduct	-104.91	
For >150, Deduct	-209.82	
<b>21 13 19 00-0004 Extra Hazard, Preaction Sprinkler System Assemblies (21 13 19 00-0001)</b>		
21 13 19 00-0005 EA Exposed Piping, Extra Hazard, Per Head, Preaction Sprinkler System Assembly .....	976.42	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	436.92	
For >5 To 10, Add	264.81	
For >10 To 20, Add	167.17	
For >20 To 40, Add	72.00	
For >100 To 150, Deduct	-97.64	
For >150, Deduct	-195.28	
<b>21 13 26 Deluge Fire-Suppression Sprinkler Systems (21 13)</b>		
<b>21 13 26 00-0001 Deluge Fire-Suppression Sprinkler Systems Equipment (21 13 26)</b>		
See CSI section 23 21 13 23-0000 for pipe and fittings.		
<b>21 13 26 00-0002 Deluge Valves With Required Trim And Release Equipment (21 13 26 00-0001)</b>		
21 13 26 00-0003 EA 3" Deluge Valve With Trim And Release Equipment .....	7,746.27	797.27
21 13 26 00-0004 EA 4" Deluge Valve With Trim And Release Equipment .....	8,876.08	896.85
21 13 26 00-0005 EA 6" Deluge Valve With Trim And Release Equipment .....	11,074.73	1,304.53
<b>21 13 39 Foam-Water Systems (21 13)</b>		
<b>21 13 39 00-0001 Foam Control Valves And Monitors (21 13 39)</b>		
<b>21 13 39 00-0002 Control Valves (21 13 39 00-0001)</b>		
21 13 39 00-0003 EA 3" Foam Control Valve.....	3,826.50	797.27
<b>21 13 39 00-0004 Supply Valves (21 13 39 00-0001)</b>		
21 13 39 00-0005 EA 2-1/2" Foam Supply Valve .....	3,529.78	896.85
<b>21 13 39 00-0006 Proportioners (21 13 39 00-0001)</b>		
21 13 39 00-0007 EA 8" Foam Proportioner.....	3,164.03	1,304.53
<b>21 13 39 00-0008 Monitors (21 13 39 00-0001)</b>		
21 13 39 00-0009 EA Oscillating Foam Monitor.....	3,683.21	179.37
<b>21 13 41 Fire-Suppression Sprinkler Piping (21 13)</b>		
See CSI section 23 21 13 23-0001 for threaded black steel piping, 23 21 13 23-0374 for welded black steel piping, 23 21 13 23-0813 for flanged black steel pipe fittings, 23 21 13 23-1411 for grooved pipe, 23 21 13 23-1484 for grooved pipe fittings, 33 14 13 13-0001 for ductile iron pipe and fittings.		
21 13 41 00-0001 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41)		
Note: SDR 13.5		
21 13 41 00-0002 Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41 00-0001)		

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 41 00-0003 LF 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe ..... <i>For Work In Restricted Working Space, Add</i>	7.20 1.72	2.29
21 13 41 00-0004 LF 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe ..... <i>For Work In Restricted Working Space, Add</i>	8.41 1.85	2.44
21 13 41 00-0005 LF 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe ..... <i>For Work In Restricted Working Space, Add</i>	10.26 2.02	2.73
21 13 41 00-0006 LF 1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe ..... <i>For Work In Restricted Working Space, Add</i>	12.34 2.24	3.02
21 13 41 00-0007 LF 2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe ..... <i>For Work In Restricted Working Space, Add</i>	15.47 2.50	3.30
21 13 41 00-0008 LF 2-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe ..... <i>For Work In Restricted Working Space, Add</i>	20.62 2.84	3.73
21 13 41 00-0009 LF 3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe ..... <i>For Work In Restricted Working Space, Add</i>	28.17 3.36	4.45
<b>21 13 41 00-0010 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows, Fire Sprinkler Piping</b> <i>(21 13 41 00-0001)</i>		
21 13 41 00-0011 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	36.34 10.33	13.78
21 13 41 00-0012 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	47.32 12.96	17.22
21 13 41 00-0013 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	59.18 16.19	21.53
21 13 41 00-0014 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	67.09 17.91	23.82
21 13 41 00-0015 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	75.79 19.97	26.69
21 13 41 00-0016 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	93.46 22.73	30.28
21 13 41 00-0017 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	113.62 26.86	35.87
<b>21 13 41 00-0018 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows, Fire Sprinkler Piping</b> <i>(21 13 41 00-0001)</i>		
21 13 41 00-0019 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	37.01 10.33	13.78
21 13 41 00-0020 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	46.25 12.96	17.22
21 13 41 00-0021 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	58.37 16.19	21.53
21 13 41 00-0022 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	65.80 17.91	23.82
21 13 41 00-0023 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	74.17 19.97	26.69
21 13 41 00-0024 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	89.39 22.73	30.28
21 13 41 00-0025 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	109.14 26.86	35.87
<b>21 13 41 00-0026 Chlorinated Polyvinyl Chloride (CPVC) Tees, Fire Sprinkler Piping</b> <i>(21 13 41 00-0001)</i>		
21 13 41 00-0027 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	54.23 15.50	20.66
21 13 41 00-0028 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	69.94 19.46	25.97
21 13 41 00-0029 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	88.59 24.28	32.43
21 13 41 00-0030 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	100.80 26.86	35.87
21 13 41 00-0031 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	116.56 29.96	39.89
21 13 41 00-0032 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	140.77 34.10	45.49
21 13 41 00-0033 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	166.32 40.30	53.66
<b>21 13 41 00-0034 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees, Fire Sprinkler Piping</b> <i>(21 13 41 00-0001)</i>		
21 13 41 00-0035 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	64.74 18.12	24.25
21 13 41 00-0036 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	83.42 22.64	30.28
21 13 41 00-0037 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	93.14 25.06	33.44
21 13 41 00-0038 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	108.61 27.98	37.31
21 13 41 00-0039 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	127.12 31.81	42.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 41 00-0040 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	149.75 37.62	50.08
<b>21 13 41 00-0041 Chlorinated Polyvinyl Chloride (CPVC) Crosses, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>		
21 13 41 00-0042 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	72.95 20.66	27.55
21 13 41 00-0043 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	91.47 25.92	34.58
21 13 41 00-0044 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	114.96 32.37	43.19
21 13 41 00-0045 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	129.01 35.82	47.78
21 13 41 00-0046 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	149.03 39.95	53.24
21 13 41 00-0047 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	186.11 45.46	60.55
<b>21 13 41 00-0048 Chlorinated Polyvinyl Chloride (CPVC) Couplings, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>		
21 13 41 00-0049 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	24.78 6.89	9.18
21 13 41 00-0050 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	33.22 9.26	12.34
21 13 41 00-0051 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	43.93 12.14	16.21
21 13 41 00-0052 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	49.71 13.43	17.93
21 13 41 00-0053 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	56.63 14.98	19.95
21 13 41 00-0054 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	67.07 17.05	22.67
21 13 41 00-0055 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	80.52 20.15	26.84
<b>21 13 41 00-0056 Chlorinated Polyvinyl Chloride (CPVC) Caps, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>		
21 13 41 00-0057 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	12.57 3.44	4.59
21 13 41 00-0058 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	20.07 5.55	7.46
21 13 41 00-0059 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	22.74 6.07	8.04
21 13 41 00-0060 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	25.84 6.71	8.89
21 13 41 00-0061 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	30.19 7.49	10.05
21 13 41 00-0062 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	35.95 8.53	11.34
21 13 41 00-0063 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	45.79 10.07	13.49
<b>21 13 41 00-0064 Chlorinated Polyvinyl Chloride (CPVC) Reducer Bushing, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>		
21 13 41 00-0065 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	35.43 10.20	13.63
21 13 41 00-0066 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	46.79 13.34	17.79
21 13 41 00-0067 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	51.73 14.77	19.66
21 13 41 00-0068 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	58.63 16.49	21.96
21 13 41 00-0069 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	68.87 18.77	24.97
21 13 41 00-0070 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	83.40 22.17	29.56
<b>21 13 41 00-0071 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip x Female Pipe Thread, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>		
21 13 41 00-0072 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	30.00 7.58	10.05
21 13 41 00-0073 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping <i>For Work In Restricted Working Space, Add</i>	39.03 10.20	13.63
<b>21 13 41 00-0074 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping</b> <small>(21 13 41 00-0001)</small>		

**21 Fire Suppression****21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 41 00-0075	EA	3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	30.00 7.58	10.05
21 13 41 00-0076	EA	1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	39.03 10.20	13.63
<b>21 13 41 00-0077</b>		<b>Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small></b>		
21 13 41 00-0078	EA	3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	35.40 9.30	12.34
21 13 41 00-0079	EA	1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	45.07 11.67	15.50
21 13 41 00-0080	EA	1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 3/4" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	46.42 11.67	15.50
<b>21 13 41 00-0081</b>		<b>Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small></b>		
21 13 41 00-0082	EA	3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	58.36 15.50	20.66
21 13 41 00-0083	EA	1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	72.11 19.46	25.97
21 13 41 00-0084	EA	1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	93.00 24.28	32.43
21 13 41 00-0085	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	105.48 26.86	35.87
21 13 41 00-0086	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping ..... <i>For Work In Restricted Working Space, Add</i>	122.25 29.96	39.89

**21 20 Fire-Extinguishing Systems (21)****21 21 Carbon-Dioxide Fire-Extinguishing Systems (21 20)****21 21 16 Carbon-Dioxide Fire-Extinguishing Equipment (21 21)****21 21 16 00-0001 Carbon Dioxide Cylinders (21 21 16)**

21 21 16 00-0002	EA	Carbon Dioxide Simplex Cylinder, 75 LB.....	4,881.26	310.16
21 21 16 00-0003	EA	Carbon Dioxide Duplex Cylinder, 75 LB (Each).....	9,762.51	620.32
21 21 16 00-0004	EA	Carbon Dioxide Cylinder, Heat/Ion Detector, With Bracket.....	571.85	163.26
21 21 16 00-0005	EA	Carbon Dioxide Cylinder, Dispersion Nozzle.....	274.78	56.68
21 21 16 00-0006	LF	Carbon Dioxide Cylinder, 1/2" Rubber Tubing.....	60.73	22.98

**21 22 Clean-Agent Fire-Extinguishing Systems (21 20)****21 22 16 Clean-Agent Fire-Extinguishing Equipment (21 22)****21 22 16 00-0001 Ansul Fire Control Systems (21 22 16)****21 22 16 00-0002 Sapphire® Fire Suppression Systems (21 22 16 00-0001)**

Note: ANSUL® SAPPHERE® fire suppression systems use 3M™ Novec™ 1230 fire protection fluid for total flooding applications.

**21 22 16 00-0003 Cylinders, Sapphire® Fire Suppression Systems (21 22 16 00-0002)**

21 22 16 00-0004	EA	20 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570635)..... Note: 10 to 21 LB tank capacity. Excludes Sapphire agent.	1,661.44	105.74
21 22 16 00-0005	EA	40 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570636)..... Note: 20 to 46 LB tank capacity. Excludes Sapphire agent.	1,887.49	105.74
21 22 16 00-0006	EA	80 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570637)..... Note: 41 to 80 LB tank capacity. Excludes Sapphire agent.	1,917.21	105.74
21 22 16 00-0007	EA	140 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570638)..... Note: 58 to 138 LB tank capacity. Excludes Sapphire agent.	2,717.21	140.98
21 22 16 00-0008	EA	280 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570639)..... Note: 116 to 280 LB tank capacity. Excludes Sapphire agent.	2,866.64	140.98
21 22 16 00-0009	EA	390 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570640)..... Note: 161 to 388 LB tank capacity. Excludes Sapphire agent.	3,075.97	176.23
21 22 16 00-0010	EA	450 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570641)..... Note: 194 to 459 LB tank capacity. Excludes Sapphire agent.	3,258.18	176.23
21 22 16 00-0011	EA	850 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570586)..... Note: 375 to 851 LB tank capacity. Excludes Sapphire agent.	4,889.51	211.47
21 22 16 00-0012	LB	Sapphire Agent, Fire Protection Fluid, Factory Filled (Novec 1230) ..... Note: Add to empty tank cost.	40.37	211.47



<b>Fire Suppression</b>	<b>21</b>	
<b>Fire-Extinguishing Systems</b>	<b>21 20</b>	<b>12</b>
<b>Clean-Agent Fire-Extinguishing Systems</b>	<b>21 22</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>21 22 16 00-0013</b> <b>Nozzles, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0014 EA 1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570515) .....	162.51	17.62
21 22 16 00-0015 EA 3/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570516) .....	166.36	17.62
21 22 16 00-0016 EA 1" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570517) .....	176.01	17.62
21 22 16 00-0017 EA 1-1/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570518) .....	182.76	17.62
21 22 16 00-0018 EA 1-1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570519) .....	192.40	17.62
21 22 16 00-0019 EA 2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570520) .....	221.31	17.62
21 22 16 00-0020 EA 1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570602) .....	162.51	17.62
21 22 16 00-0021 EA 3/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570603) .....	166.36	17.62
21 22 16 00-0022 EA 1" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570604) .....	176.01	17.62
21 22 16 00-0023 EA 1-1/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570605) .....	182.76	17.62
21 22 16 00-0024 EA 1-1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570606) .....	192.40	17.62
21 22 16 00-0025 EA 2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570607) .....	221.31	17.62
<b>21 22 16 00-0026</b> <b>Actuation Attachments, Sapphire® Fire Suppression System</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0027 EA 7/16-20 To 1/4" NPT, Male Actuation Elbow, Sapphire® Fire Suppression System (Ansul 31810).....	16.52	5.29
21 22 16 00-0028 EA 7/16-20 To 1/4" NPT, Male Actuation Tee, Sapphire® Fire Suppression System (Ansul 31811).....	18.18	5.29
21 22 16 00-0029 EA 1/4" NPT To 7/16-20, Male Actuation Connector, Sapphire® Fire Suppression System (Ansul 32338).....	27.38	12.34
21 22 16 00-0030 EA 16" Actuation Hose, Sapphire® Fire Suppression System (Ansul 73597).....	57.77	15.79
21 22 16 00-0031 EA 32" Actuation Hose, Sapphire® Fire Suppression System (Ansul 415142).....	81.71	15.79
21 22 16 00-0032 EA 42" Actuation Hose, Sapphire® Fire Suppression System (Ansul 430815).....	96.97	15.79
21 22 16 00-0033 EA 24", Stainless Steel, Swivel, Braided Actuation Hose, Sapphire® Fire Suppression System (Ansul 32336).....	52.26	15.79
21 22 16 00-0034 EA Pneumatic Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537).....	379.33	140.98
21 22 16 00-0035 EA Local Manual Actuator, Sapphire® Fire Suppression System (Ansul 570549).....	350.29	105.74
21 22 16 00-0036 EA Electric Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537).....	737.97	140.98
<b>21 22 16 00-0037</b> <b>Nameplates, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0038 EA Warning Plate For Use Outside Room, Sapphire® Fire Suppression Systems (Ansul 570580).....	58.39	17.62
21 22 16 00-0039 EA Warning Plate for Use Inside Room, Sapphire® Fire Suppression Systems (Ansul 570581).....	62.74	17.62
<b>21 22 16 00-0040</b> <b>Cylinder Bracketing, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0041 EA Tank Bracket Assembly For 20 LB, 40 LB, 50 LB, 80 LB And 90 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085) .....	179.01	52.86
21 22 16 00-0042 EA Tank Bracket Assembly For 140 LB, 280 LB, 390 LB And 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085) .....	187.69	52.86
21 22 16 00-0043 EA Tank Bracket Assembly For 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570336).....	198.78	52.86
<b>21 22 16 00-0044</b> <b>Check Valves, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0045 EA 1" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570566).....	429.50	56.11
21 22 16 00-0046 EA 2" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570568).....	609.38	96.29
<b>21 22 16 00-0047</b> <b>Discharge Hose, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0048 EA 1" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570539).....	146.65	35.25
21 22 16 00-0049 EA 2" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570538).....	501.44	35.25
21 22 16 00-0050 EA 3" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 69990).....	425.27	35.25
21 22 16 00-0051 EA 3" Discharge Hose And Check Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 69841) .....	1,851.48	140.98
<b>21 22 16 00-0052</b> <b>Swivel Adaptors, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0053 EA 1" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570557).....	55.12	24.67
21 22 16 00-0054 EA 2" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570558).....	91.16	24.67
21 22 16 00-0055 EA 3" Flare To 3" Grooved, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69471) .....	237.71	17.62
21 22 16 00-0056 EA 3" Flare To 3" NPT, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69470).....	309.95	17.62
<b>21 22 16 00-0057</b> <b>Pressure Switches, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0058 EA Cylinder Low Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 570585) .....	205.09	70.49
21 22 16 00-0059 EA Pressure Trip, Sapphire® Fire Suppression Systems (Ansul 5156).....	185.51	29.60
21 22 16 00-0060 EA Weather Proof, DPST Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 46250) .....	587.03	123.35
<b>21 22 16 00-0061</b> <b>Level Indicators, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0062 EA Liquid Level Indicator For 280 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570277).....	625.85	24.67
21 22 16 00-0063 EA Liquid Level Indicator For 390 LB And 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570278).....	654.79	24.67
21 22 16 00-0064 EA Liquid Level Indicator For 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570589).....	705.81	35.25
<b>21 22 16 00-0065</b> <b>Inspection/Maintenance Devices, Sapphire® Fire Suppression Systems</b> <small>(21 22 16 00-0002)</small>		
21 22 16 00-0066 EA Master Tank Pilot Port Male Adaptor, Sapphire® Fire Suppression Systems (Ansul 570342) .....	57.71	21.15
21 22 16 00-0067 EA Cylinder Valve Pressure Gauge, Sapphire® Fire Suppression Systems (Ansul 570642).....	71.41	24.67
21 22 16 00-0068 EA Recharge Top Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570579).....	250.22	105.74

<b>21</b>	<b>Fire Suppression</b>
<b>21 20</b>	<b>Fire-Extinguishing Systems</b>
<b>21 22</b>	<b>Clean-Agent Fire-Extinguishing Systems</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0069 EA 1" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570576).....	283.29	105.74
21 22 16 00-0070 EA 2" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570592).....	310.77	105.74
21 22 16 00-0071 EA 3" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 69891).....	399.46	105.74
<b>21 22 16 00-0072 Replacement Parts, Sapphire® Fire Suppression Systems (21 22 16 00-0002)</b>		
21 22 16 00-0073 EA O-Ring Kit, Sapphire® Fire Suppression Systems (Ansul 570559).....	70.26	28.20
21 22 16 00-0074 EA Recoil Cap, Sapphire® Fire Suppression Systems (Ansul 570553).....	101.28	17.62
21 22 16 00-0075 EA Burst Disc Assembly, Sapphire® Fire Suppression Systems (Ansul 570053).....	142.33	35.25
21 22 16 00-0076 EA Bonnet Assembly, Sapphire® Fire Suppression Systems (Ansul 570543).....	399.58	140.98
21 22 16 00-0077 EA Piston Assembly, Sapphire® Fire Suppression Systems (Ansul 570551).....	568.29	140.98
21 22 16 00-0078 EA 1" Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570535).....	1,751.20	140.98
<b>21 22 16 00-0079 Inergen® Fire Suppression System (21 22 16 00-0001)</b>		
<b>21 22 16 00-0080 Actuation Attachments, Inergen® Fire Suppression System (21 22 16 00-0079)</b>		
21 22 16 00-0081 EA Flexible Discharge Bend For CV90 And CV98 (200 Bar), Inergen® Fire Suppression System (Ansul 427082).....	198.09	34.92
21 22 16 00-0082 EA Metron Protractor Replacement Cartridges, Inergen® Fire Suppression System (Ansul 423958).....	228.92	37.53
21 22 16 00-0083 EA Electric Actuator, Lever, CV98, Inergen® Fire Suppression System (Ansul 423309).....	409.72	67.93
21 22 16 00-0084 EA Electric Actuator For CV90 Valve, Inergen® Fire Suppression System (Ansul 426876).....	833.05	154.71
<b>21 22 16 00-0085 Check Valves, Inergen® Fire Suppression System (21 22 16 00-0079)</b>		
21 22 16 00-0086 EA 2" Bronze Check Valve, Weld Neck Flange, Inergen® Fire Suppression System (Ansul 840794).....	1,883.72	204.19
<b>21 22 16 00-0087 Components, Inergen® Fire Suppression System (21 22 16 00-0079)</b>		
21 22 16 00-0088 EA 1/2" Manifold Relief Valve, Inergen® Fire Suppression System (Ansul 418378).....	59.01	10.71
21 22 16 00-0089 EA Pressure Operated Siren, Inergen® Fire Suppression System (Ansul 419700).....	688.40	114.73
21 22 16 00-0090 EA 30 Second Pneumatic Time Delay, Inergen® Fire Suppression System (Ansul 54169).....	2,143.85	358.97
21 22 16 00-0091 EA 60 Second Time Delay, Inergen® Fire Suppression System (Ansul 426170).....	2,055.11	365.72
<b>21 22 16 00-0092 Cylinders, Inergen® Fire Suppression System (21 22 16 00-0079)</b>		
Note: Includes CV98 valve. Factory filled with Inergen agent.		
21 22 16 00-0093 EA 200 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426147).....	1,802.38	328.53
21 22 16 00-0094 EA 250 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426148).....	2,044.46	372.22
21 22 16 00-0095 EA 350 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426620).....	2,900.14	482.36
21 22 16 00-0096 EA 435 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426150).....	2,928.02	589.43
21 22 16 00-0097 EA 250 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426257).....	2,129.73	415.04
21 22 16 00-0098 EA 350 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426621).....	2,986.04	525.32
21 22 16 00-0099 EA 435 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426259).....	3,128.03	633.39
<b>21 22 16 00-0100 Inspection/Maintenance Devices, Inergen® Fire Suppression System (21 22 16 00-0079)</b>		
21 22 16 00-0101 EA CV90 Fill Adaptor To CV98 Valve, Conversion Adapter, Inergen® Fire Suppression System (Ansul 423657).....	67.86	11.94
21 22 16 00-0102 EA CV98 To CV90 Conversion Adapter, Cylinder Test Gauge, Inergen® Fire Suppression System (Ansul 426181).....	67.86	11.94
21 22 16 00-0103 EA CV90 Pressure Test Assembly Venting Kit, Inergen® Fire Suppression System (Ansul 426954).....	81.27	13.27
21 22 16 00-0104 EA Pressure Test Gauge, Inergen® Fire Suppression System (Ansul 423923).....	1,293.23	227.98
<b>21 22 16 00-0105 Multiple Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)</b>		
21 22 16 00-0106 EA 13" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418502).....	21.60	3.49
Note: For single row 435 cubic foot cylinders.		
21 22 16 00-0107 EA 27" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418503).....	30.68	4.99
Note: For double row 435 cubic foot cylinders.		
<b>21 22 16 00-0108 Nameplates, Inergen® Fire Suppression System (21 22 16 00-0079)</b>		
21 22 16 00-0109 EA Warning Plate, Nameplate, Inside Room With Alarm, Inergen® Fire Suppression System (Ansul 416265).....	23.84	3.90
21 22 16 00-0110 EA Warning Plate, Nameplate, Outside Room Without Alarm, Inergen® Fire Suppression System (Ansul 416266).....	22.18	3.90
<b>21 22 16 00-0111 Nozzle Deflector Shields, Inergen® Fire Suppression System (21 22 16 00-0079)</b>		
21 22 16 00-0112 EA 1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417708).....	96.32	16.82
21 22 16 00-0113 EA 3/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417711).....	101.14	17.62
21 22 16 00-0114 EA 1" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417714).....	117.35	20.35
21 22 16 00-0115 EA 1-1/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417717).....	131.00	22.98
21 22 16 00-0116 EA 1-1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417720).....	150.26	26.42
<b>21 22 16 00-0117 Nozzles, Inergen® Fire Suppression System (21 22 16 00-0079)</b>		
21 22 16 00-0118 EA 1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417908).....	147.70	26.04
21 22 16 00-0119 EA 3/8" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417723).....	153.15	26.81
21 22 16 00-0120 EA 1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417362).....	141.26	24.82
21 22 16 00-0121 EA 3/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417363).....	145.43	26.81
21 22 16 00-0122 EA 1" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417364).....	167.92	29.49
21 22 16 00-0123 EA 1-1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417365).....	179.47	31.40





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0124	EA			1-1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417366).....	193.28	33.69
21 22 16 00-0125	EA			2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426155) .....	332.95	58.97
21 22 16 00-0126	EA			2-1/2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426156) .....	440.17	77.35
21 22 16 00-0127	EA			3" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426137) .....	480.03	85.02
21 22 16 00-0128	EA			1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426138) .....	172.09	30.61
21 22 16 00-0129	EA			3/8" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426139) .....	202.90	35.85
21 22 16 00-0130	EA			1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426140) .....	166.94	29.49
21 22 16 00-0131	EA			3/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426141) .....	178.20	31.25
21 22 16 00-0132	EA			1" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426142) .....	179.80	31.40
21 22 16 00-0133	EA			1-1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426143) .....	217.05	38.14
21 22 16 00-0134	EA			1-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426157) .....	234.05	41.35
21 22 16 00-0135	EA			2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426144) .....	359.27	63.46
21 22 16 00-0136	EA			2-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426145) .....	419.63	74.29
21 22 16 00-0137	EA			3" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426146) .....	459.76	81.19
<b>21 22 16 00-0138 Pressure Reducers, Inergen® Fire Suppression System (21 22 16 00-0079)</b>						
21 22 16 00-0139	EA			1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416677).....	193.28	33.69
21 22 16 00-0140	EA			3/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416678).....	237.29	41.97
21 22 16 00-0141	EA			1" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416679).....	255.25	45.19
21 22 16 00-0142	EA			1-1/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416680).....	359.27	63.46
21 22 16 00-0143	EA			1-1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416681).....	392.66	69.54
21 22 16 00-0144	EA			2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416682).....	461.36	81.19
21 22 16 00-0145	EA			2-1/2" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417057).....	536.49	95.19
21 22 16 00-0146	EA			3" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417058).....	634.41	112.59
21 22 16 00-0147	EA			2-1/2" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426823).....	806.83	222.11
21 22 16 00-0148	EA			3" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426824).....	1,030.64	260.40
21 22 16 00-0149	EA			4" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426825).....	1,351.10	436.55
21 22 16 00-0150	EA			2-1/2" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426847).....	788.51	222.11
21 22 16 00-0151	EA			3" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426848).....	873.29	155.13
21 22 16 00-0152	EA			4" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426849).....	1,351.10	436.55
21 22 16 00-0153	EA			2-1/2" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426853).....	803.93	222.11
21 22 16 00-0154	EA			3" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426854).....	907.65	161.22
21 22 16 00-0155	EA			4" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426855).....	1,327.96	436.55
<b>21 22 16 00-0156 Pressure Switches, Inergen® Fire Suppression System (21 22 16 00-0079)</b>						
21 22 16 00-0157	EA			3PST, Pressure Switch, Inergen® Fire Suppression System (Ansul 842344).....	912.87	169.26
<b>21 22 16 00-0158 Releasing Device Equipment, Inergen® Fire Suppression System (21 22 16 00-0079)</b>						
21 22 16 00-0159	EA			12 Or 24 Volt DC, Assembly, Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 17728).....	1,490.37	262.59
21 22 16 00-0160	EA			24 Volt DC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 31492).....	2,109.16	349.91
21 22 16 00-0161	EA			120 Volt AC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 32525).....	2,228.36	355.94
21 22 16 00-0162	EA			Cocking Lever For Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 26310).....	104.99	18.10
21 22 16 00-0163	EA			LT-30-R Nitrogen Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 5373).....	126.71	23.97
21 22 16 00-0164	EA			Remote Actuator Booster With N2 Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 28939).....	1,191.88	187.34
<b>21 22 16 00-0165 Replacement Orifice Plates, Inergen® Fire Suppression System (21 22 16 00-0079)</b>						
21 22 16 00-0166	EA			1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418095).....	128.94	17.78
21 22 16 00-0167	EA			3/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418096).....	135.19	18.73
21 22 16 00-0168	EA			1" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418097).....	141.62	19.05
21 22 16 00-0169	EA			1-1/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418098).....	151.58	19.69
21 22 16 00-0170	EA			1-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418099).....	158.31	21.59
21 22 16 00-0171	EA			2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418100).....	159.92	23.34
21 22 16 00-0172	EA			2-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426984).....	356.68	62.55
21 22 16 00-0173	EA			3" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426985).....	359.91	63.19
21 22 16 00-0174	EA			4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426986).....	461.36	80.96
<b>21 22 16 00-0175 Single Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)</b>						
21 22 16 00-0176	EA			Strap For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427704).....	167.92	29.49
21 22 16 00-0177	EA			Channel For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427705).....	244.21	67.40
<b>21 22 16 00-0178 Single Mating Flanges, Flanged Manifold Orifices, Inergen® Fire Suppression System (21 22 16 00-0079)</b>						
21 22 16 00-0179	EA			2-1/2" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426856).....	420.33	43.58
Note: Includes gasket and fasteners.						
21 22 16 00-0180	EA			3" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426857).....	368.26	65.07
Note: Includes gasket and fasteners.						

**21 Fire Suppression****21 20 Fire-Extinguishing Systems****21 22 Clean-Agent Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0181 EA 4" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426858) ..... Note: Includes gasket and fasteners.	817.05	436.55
21 22 16 00-0182 EA 2-1/2" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426859) ..... Note: Includes gasket and fasteners.	230.85	40.70
21 22 16 00-0183 EA 3" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426860)..... Note: Includes gasket and fasteners.	270.97	47.48
21 22 16 00-0184 EA 4" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426861)..... Note: Includes gasket and fasteners.	812.18	436.55
21 22 16 00-0185 EA 2-1/2" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426862) ..... Note: Includes gasket and fasteners.	240.47	42.63
21 22 16 00-0186 EA 3" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426863) ..... Note: Includes gasket and fasteners.	281.58	49.68
21 22 16 00-0187 EA 4" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426864) ..... Note: Includes gasket and fasteners.	836.28	436.55
21 22 16 00-0188 EA 2-1/2" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426828) ..... Note: Includes a stainless steel inner ring and a carbon steel outer ring.	44.45	3.23
21 22 16 00-0189 EA 3" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426829) ..... Note: Includes a stainless steel inner ring and a carbon steel outer ring.	45.09	3.56
21 22 16 00-0190 EA 4" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426830) ..... Note: Includes a stainless steel inner ring and a carbon steel outer ring.	48.78	4.21
<b>21 22 16 00-0191 Upright And Feet, Cylinder Bracketing, Inergen® Fire Suppression System</b> <small>(21 22 16 00-0079)</small>		
21 22 16 00-0192 EA Center Upright Foot, Inergen® Fire Suppression System (Ansul 418508) .....	29.44	5.18
21 22 16 00-0193 EA Double Row, Back-To-Back Rows, Weigh Rail Support, Inergen® Fire Suppression System (Ansul 423027) .....	240.48	39.38
21 22 16 00-0194 EA 85" High, Cylinder Bracketing For 425 CF And LC100 Cylinders, Inergen® Fire Suppression System (Ansul 426592) ..... Note: Includes upright, left, right and center.	184.59	39.38
<b>21 22 16 00-0195 Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0001)</small>		
<b>21 22 16 00-0196 Accessory Switches, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>		
21 22 16 00-0197 EA Abort, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76495) .....	190.07	33.98
21 22 16 00-0198 EA Abort, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76494) .....	216.08	38.74
21 22 16 00-0199 EA Main/Reserve, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76497).....	274.82	49.22
21 22 16 00-0200 EA Main/Reserve, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76496) .....	296.02	53.03
21 22 16 00-0201 EA Maintenance, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76499) .....	370.81	66.68
21 22 16 00-0202 EA Maintenance, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76498).....	394.58	70.81
21 22 16 00-0203 EA Explosion Proof, Abort Switch, Autopulse® Fire Detection And Control Equipment (Ansul 65956).....	756.74	136.54
21 22 16 00-0204 EA Single Gang, Surface Mount Back Box For Accessory Switches, Autopulse® Fire Detection And Control Equipment (Ansul 76490) .....	60.49	10.16
<b>21 22 16 00-0205 Alarm Devices, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>		
21 22 16 00-0206 EA Selectable Candela Strobe, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429698) .....	164.70	29.53
21 22 16 00-0207 EA Sync Module, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429699).....	241.44	43.19
21 22 16 00-0208 EA Back Box Extender Adapter, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429702).....	22.03	3.94
<b>21 22 16 00-0209 Annunciators, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>		
21 22 16 00-0210 EA 80 Character LCD, Annunciator, LCD-80, Autopulse® Fire Detection And Control Equipment (Ansul 417492).....	1,898.94	342.61
21 22 16 00-0211 EA 16 Zone Alarm/Trouble, Annunciator Control Module, ACM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417496) .....	1,591.79	287.03
21 22 16 00-0212 EA 16 Zone Alarm/Trouble, Annunciator Expander Module, AEM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417497) .....	1,235.73	222.90
21 22 16 00-0213 EA 32 Zone, Alarm Annunciator Expander Module, AEM-32A, Autopulse® Fire Detection And Control Equipment (Ansul 417500) .....	1,076.19	194.00
21 22 16 00-0214 EA Annunciator Lamp Driver Control Module, LDM-32, Autopulse® Fire Detection And Control Equipment (Ansul 417501) .....	1,076.19	194.00
21 22 16 00-0215 EA Annunciator Lamp Driver Expander Module, LDM-E32, Autopulse® Fire Detection And Control Equipment (Ansul 417502) .....	862.03	155.27
21 22 16 00-0216 EA Annunciator Lamp Driver Relay Module, LDM-R32, Autopulse® Fire Detection And Control Equipment (Ansul 417650) .....	1,591.79	287.03
21 22 16 00-0217 EA 24", Annunciator Lamp Driver Cable, LDM-CBL24, Autopulse® Fire Detection And Control Equipment (Ansul 417651) .....	323.62	58.11
21 22 16 00-0218 EA 48", Annunciator Lamp Driver Cable, LDM-CBL48, Autopulse® Fire Detection And Control Equipment (Ansul 417652) .....	405.81	73.03
21 22 16 00-0219 EA 8 Relay, Annunciator Control Module, ACM-8R, Autopulse® Fire Detection And Control Equipment (Ansul 417653) .....	813.87	146.69
21 22 16 00-0220 EA Key Switch, AKS-1 Annunciator Accessory, Autopulse® Fire Detection And Control Equipment (Ansul 417660) .....	137.42	24.60
21 22 16 00-0221 EA Low Profile Annunciator Chassis, CHS-4L, Autopulse® Fire Detection And Control Equipment (Ansul 418576)..... Note: For up to 4 LDM modules.	187.17	33.98
21 22 16 00-0222 EA Flush, Single Annunciator Back Box, ABF-1, Autopulse® Fire Detection And Control Equipment (Ansul 417657).....	323.63	58.11



<b>Fire Suppression</b>	<b>21</b>	12
<b>Fire-Extinguishing Systems</b>	<b>21 20</b>	
<b>Clean-Agent Fire-Extinguishing Systems</b>	<b>21 22</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>21 22 16 00-0223</b> <b>Autopulse IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>		
21 22 16 00-0224    EA    CHS-4 Chassis, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419586).....	252.66	47.31
21 22 16 00-0225    EA    REL 47K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419639).....	15.79	3.24
21 22 16 00-0226    EA    REL 4.7K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419640).....	100.51	3.94
21 22 16 00-0227    EA    REL 2.2K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 407765).....	17.31	3.94
<b>21 22 16 00-0228</b> <b>Autopulse IQ-396X Modules, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>		
21 22 16 00-0229    EA    Indicating Circuit Expander, IQ-396X Modules, ICE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419564).....	562.14	106.05
21 22 16 00-0230    EA    Control Relay Expander, IQ-396X Modules, CRE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419566).....	336.78	63.19
<b>21 22 16 00-0231</b> <b>Batteries And Power Supplies, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>		
21 22 16 00-0232    EA    7 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417692).....	245.04	40.64
21 22 16 00-0233    EA    12 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417693).....	513.03	86.05
21 22 16 00-0234    EA    18 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417694).....	579.15	97.47
21 22 16 00-0235    EA    25 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417695).....	752.29	118.75
21 22 16 00-0236    EA    55 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417997).....	1,220.73	206.07
21 22 16 00-0237    EA    BB-17, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 418578).....	183.65	32.71
21 22 16 00-0238    EA    BB-25, Grey Cabinet, Autopulse® Fire Detection And Control Equipment (Ansul 428079).....	328.44	59.05
21 22 16 00-0239    EA    BB-55, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 419410).....	668.12	120.34
21 22 16 00-0240    EA    Battery Charger, CHG-120, Autopulse® Fire Detection And Control Equipment (Ansul 426207).....	1,942.69	350.54
21 22 16 00-0241    EA    120 Volt AC, FCPS-24F, Red Remote Power Supply, Autopulse® Fire Detection And Control Equipment (Ansul 418563).....	1,420.66	256.24
<b>21 22 16 00-0242</b> <b>Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>		
21 22 16 00-0243    EA    Monitor Module, Intelligent Addressable Devices, FMM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428097).....	149.77	27.15
21 22 16 00-0244    EA    Mini Monitor Module, Intelligent Addressable Devices, FMM-101, Autopulse® Fire Detection And Control Equipment (Ansul 428098).....	140.77	26.99
21 22 16 00-0245    EA    Isolator Module, Intelligent Addressable Devices, ISO-X, Autopulse® Fire Detection And Control Equipment (Ansul 417480).....	191.97	38.74
21 22 16 00-0246    EA    2-Wire Detector Monitor Module, Intelligent Addressable Devices, FZM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428100).....	281.25	50.49
21 22 16 00-0247    EA    NAC Control Module, Intelligent Addressable Devices, FCM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428101).....	219.59	40.96
21 22 16 00-0248    EA    Control Relay Module, Intelligent Addressable Devices, FRM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428102).....	206.75	39.38
21 22 16 00-0249    EA    Flangeless, Analog Addressable Detector Base, Intelligent Addressable Devices, B501, Autopulse® Fire Detection And Control Equipment (Ansul 417487).....	32.94	6.28
21 22 16 00-0250    EA    Analog Addressable Detector Base With Isolator, Intelligent Addressable Devices, B224BI, Autopulse® Fire Detection And Control Equipment (Ansul 426125).....	121.04	22.22
21 22 16 00-0251    EA    Harsh Detector, Analog Addressable Detector Base, Intelligent Addressable Devices, B710HD, Autopulse® Fire Detection And Control Equipment (Ansul 427066).....	120.71	21.59
21 22 16 00-0252    EA    HPX-751 Detector Filter Cover, Intelligent Addressable Devices, FR-FTX, Autopulse® Fire Detection And Control Equipment (Ansul 427067).....	48.35	17.78
21 22 16 00-0253    EA    Low Profile Trim Ring, Intelligent Addressable Devices, F110, Autopulse® Fire Detection And Control Equipment (Ansul 428138).....	11.09	1.97
21 22 16 00-0254    EA    Relay Base, Intelligent Addressable Devices, B224RB, Autopulse® Fire Detection And Control Equipment (Ansul 423945).....	116.21	20.79
21 22 16 00-0255    EA    EOL Power Supervision Relay, Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment (Ansul 417699).....	68.12	12.26
21 22 16 00-0256    EA    XP5 Modules Cabinet, Intelligent Addressable Devices, BB-XP, Autopulse® Fire Detection And Control Equipment (Ansul 428078).....	183.96	32.39
21 22 16 00-0257    EA    BB-25 Chassis, Intelligent Addressable Devices, CHS-6, Autopulse® Fire Detection And Control Equipment (Ansul 428080).....	96.32	17.14
<b>21 22 16 00-0258</b> <b>Manual Pull Stations, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>		
21 22 16 00-0259    EA    Break Rod Package For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 428661).....	27.54	4.61
21 22 16 00-0260    EA    Key Pull Station For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 418336).....	16.91	2.54

<b>21</b>	<b>21</b>	<b>Fire Suppression</b>
	<b>21 20</b>	<b>Fire-Extinguishing Systems</b>
	<b>21 22</b>	<b>Clean-Agent Fire-Extinguishing Systems</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>21 22 16 00-0261</b>	<b>Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment</b> <small>(21 22 16 00-0195)</small>	
21 22 16 00-0262 EA	Transformer Module, 4XTM, Autopulse® Fire Detection And Control Equipment (Ansul 417470) .....	241.44 43.19
	Note: Includes municipal box and remote station connection.	
21 22 16 00-0263 EA	Relay/Transmitter Module With 8 Form C Relay Contacts, RTM-8, Autopulse® Fire Detection And Control Equipment (Ansul 417471) .....	723.05 124.15
21 22 16 00-0264 EA	Universal Digital Alarm COM/XMTR Module, UDACT, Autopulse® Fire Detection And Control Equipment (Ansul 419411) .....	1,387.29 250.20
21 22 16 00-0265 EA	Ferrite Core For Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment (Ansul 419635).....	36.90 6.48
<b>21 22 16 00-0266</b>	<b>Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0001)</small>	
<b>21 22 16 00-0267</b>	<b>Batteries And Power Supplies, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>	
21 22 16 00-0268 EA	Transformer Only, VSP-TRAN-120, Vesda® Aspirating Smoke Detection System (Ansul 430482).....	186.24 30.48
21 22 16 00-0269 EA	Battery Cabinet, VBC-001, Vesda® Aspirating Smoke Detection System (Ansul 430379).....	432.92 45.95
21 22 16 00-0270 EA	120 Volt AC, Single Zone Power Supply With Housing, VPS-100US-120, Vesda® Aspirating Smoke Detection System (Ansul 430374) .....	1,040.12 177.82
21 22 16 00-0271 EA	220 Volt AC, Single Zone Power Supply With Housing, VPS-100US-220, Vesda® Aspirating Smoke Detection System (Ansul 430375) .....	1,040.12 177.82
21 22 16 00-0272 EA	120 Volt AC, Multi Zone Power Supply, VPS-300US-120, Vesda® Aspirating Smoke Detection System (Ansul 430376) .....	1,562.55 266.71
	Note: Includes housing and battery cab.	
21 22 16 00-0273 EA	220 Volt AC, Multi Zone Power Supply, VPS-300US-220, Vesda® Aspirating Smoke Detection System (Ansul 430377) .....	1,562.55 266.71
	Note: Includes housing and battery cab.	
21 22 16 00-0274 EA	48 Volt DC, Multi Zone Power Supply With Housing, VPS-400US-48, Vesda® Aspirating Smoke Detection System (Ansul 430378) .....	2,256.74 339.74
<b>21 22 16 00-0275</b>	<b>Blank Plates, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>	
21 22 16 00-0276 EA	Blank Plate Without VESDA Logo, VSP-300, Vesda® Aspirating Smoke Detection System (Ansul 430459) .....	33.54 5.71
21 22 16 00-0277 EA	Blank Plate With VESDA Logo, VSP-000, Vesda® Aspirating Smoke Detection System (Ansul 430458) .....	49.06 5.71
21 22 16 00-0278 EA	Blank Plate, EMC Painted Without Logo, VSP-200, Vesda® Aspirating Smoke Detection System (Ansul 430484) .....	72.51 10.80
21 22 16 00-0279 EA	Single Blank Plate, VRE-001, Vesda® Aspirating Smoke Detection System (Ansul 430446) .....	110.47 12.07
21 22 16 00-0280 EA	Double Blank Plate, VRE-002, Vesda® Aspirating Smoke Detection System (Ansul 430447) .....	143.56 24.13
21 22 16 00-0281 EA	Blank Plate Without FOK LED's And Logo, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430480) .....	258.55 30.48
<b>21 22 16 00-0282</b>	<b>Detectors, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>	
21 22 16 00-0283 EA	LaserPLUS, Detector Only, Enclosure, VLP-000, Vesda® Aspirating Smoke Detection System (Ansul 430350).....	7,932.85 1,492.34
	Note: Includes 3 blank plates.	
21 22 16 00-0284 EA	LaserPLUS Detector, VLP-012, Vesda® Aspirating Smoke Detection System (Ansul 430354).....	10,089.02 1,841.62
	Note: Includes centrally mounted LCD programmer module and standard display.	
21 22 16 00-0285 EA	LaserPLUS Detector, VLP-010, Vesda® Aspirating Smoke Detection System (Ansul 430356).....	9,131.89 1,682.86
	Note: Includes centrally mounted LCD programmer.	
21 22 16 00-0286 EA	7-Relay Version, LaserSCANNER Detector Only, VLS-200, Vesda® Aspirating Smoke Detection System (Ansul 430357) .....	12,636.79 2,222.65
21 22 16 00-0287 EA	12-Relay Version, LaserSCANNER Detector Only, VLS-300, Vesda® Aspirating Smoke Detection System (Ansul 430358) .....	13,309.39 2,349.65
21 22 16 00-0288 EA	7-Relay Version, LaserSCANNER Detector Only, VLS-600, Vesda® Aspirating Smoke Detection System (Ansul 430359) .....	12,779.63 2,254.39
	Note: Includes 1 fire alarm (any SCT) and OK/FOK LEDs.	
21 22 16 00-0289 EA	12-Relay Version, LaserSCANNER Detector Only, VLS-700, Vesda® Aspirating Smoke Detection System (Ansul 430360) .....	13,497.12 2,381.40
	Note: Includes 1 fire alarm (any SCT) and OK/FOK LED.	
21 22 16 00-0290 EA	7-Relay, LaserSCANNER Detector Only, VLS-204, Vesda® Aspirating Smoke Detection System (Ansul 430361).....	13,896.93 2,476.66
	Note: Includes 2 blank plates and scan display module at far right.	
21 22 16 00-0291 EA	12-Relay, LaserSCANNER Detector, VLS-304, Vesda® Aspirating Smoke Detection System (Ansul 430363).....	14,510.09 2,603.67
	Note: Includes 2 blank plates and scanner display.	
21 22 16 00-0292 EA	7-Relay, LaserSCANNER Detector, VLS-214, Vesda® Aspirating Smoke Detection System (Ansul 430365).....	15,248.27 2,730.67
	Note: Includes centrally mounted programmer module.	
21 22 16 00-0293 EA	12-Relay, LaserSCANNER Detector, VLS-314, Vesda® Aspirating Smoke Detection System (Ansul 430367).....	15,904.80 2,857.68
	Note: Includes centrally mounted LCD programmer module and scanner display module.	
21 22 16 00-0294 EA	12-Relay, LaserSCANNER Detector, VLS-310, Vesda® Aspirating Smoke Detection System (Ansul 430369).....	14,904.73 2,603.67
	Note: Includes centrally mounted LCD programmer.	
<b>21 22 16 00-0295</b>	<b>Displays, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>	
21 22 16 00-0296 EA	VRT-200 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430381).....	2,358.62 349.28
	Note: Includes a remote termination card and 7 relays.	
21 22 16 00-0297 EA	VRT-400 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430385) .....	2,369.24 349.28
	Note: Includes a remote termination card and 7 relays.	
21 22 16 00-0298 EA	VRT-600 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430383) .....	2,136.66 317.52
	Note: Includes a remote termination card without relays.	
21 22 16 00-0299 EA	VRT-700 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430387) .....	2,148.99 317.52
	Note: Includes a remote termination card.	
21 22 16 00-0300 EA	VRT-800 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430389) .....	2,650.30 381.03
	Note: Includes a remote termination card and 12 relays.	
21 22 16 00-0301 EA	VRT-K00 Display, Compact Version Without Relays, Vesda® Aspirating Smoke Detection System (Ansul 430391).....	2,255.59 330.22



<b>Fire Suppression</b>	<b>21</b>	
<b>Fire-Extinguishing Systems</b>	<b>21 20</b>	<b>12</b>
<b>Clean-Agent Fire-Extinguishing Systems</b>	<b>21 22</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0302 EA VRT-J00 Display, Compact Version With 7 Relays, Vesda® Aspirating Smoke Detection System (Ansul 430393) .....	2,473.98	370.86
<b>21 22 16 00-0303 Intelligent Addressable Devices, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>		
21 22 16 00-0304 EA LaserCOMPACT (VN), VESDAnet Version Plus Relay Output, VLC-505, Vesda® Aspirating Smoke Detection System (Ansul 430370) .....	6,020.01	1,047.82
21 22 16 00-0305 EA LaserCOMPACT (RO), Relay Only Version, VLC-500, Vesda® Aspirating Smoke Detection System (Ansul 430372) .....	4,944.97	838.26
21 22 16 00-0306 EA Programmer With Remote Termination Card, VRT-100, Vesda® Aspirating Smoke Detection System (Ansul 430380) .....	1,759.47	317.52
21 22 16 00-0307 EA VESDAnet Socket, VRT-300, Vesda® Aspirating Smoke Detection System (Ansul 430395) .....	1,255.00	206.39
21 22 16 00-0308 EA System Relay Module, VRT-S07, Vesda® Aspirating Smoke Detection System (Ansul 430399) .....	1,743.60	278.15
21 22 16 00-0309 EA PC-Link High-Level Interface, VHX-0200, Vesda® Aspirating Smoke Detection System (Ansul 430442) .....	2,547.87	342.92
Note: Interface connects PC and LaserPLUS system.		
21 22 16 00-0310 EA Modem Cable, PC-HLI To Modem Connection, VHX-00090, Vesda® Aspirating Smoke Detection System (Ansul 430443) .....	328.35	51.44
21 22 16 00-0311 EA Hand-Held Programmer, VHH-1000, Vesda® Aspirating Smoke Detection System (Ansul 430444) .....	2,181.76	317.52
21 22 16 00-0312 EA Programmer Module, VSP-001, Vesda® Aspirating Smoke Detection System (Ansul 430460) .....	1,577.66	263.55
21 22 16 00-0313 EA VESDAnet Socket Kit, VSP-003, Vesda® Aspirating Smoke Detection System (Ansul 430463) .....	1,237.07	203.21
21 22 16 00-0314 EA Standard Display Module, VSP-002, Vesda® Aspirating Smoke Detection System (Ansul 430461) .....	1,579.97	263.55
21 22 16 00-0315 EA Scanner Display Module, VSP-004, Vesda® Aspirating Smoke Detection System (Ansul 430464) .....	1,577.66	263.55
21 22 16 00-0316 EA Remote Display Module, Compact (VN), VSP-502, Vesda® Aspirating Smoke Detection System (Ansul 430487) .....	1,553.17	247.67
21 22 16 00-0317 EA Filter Cartridge, VSP-005, Vesda® Aspirating Smoke Detection System (Ansul 430466) .....	183.66	22.22
21 22 16 00-0318 EA Detector Chassis Assembly, VSP-006, Vesda® Aspirating Smoke Detection System (Ansul 430467) .....	7,516.34	1,219.28
21 22 16 00-0319 EA Scanner Chassis Assembly, VSP-009, Vesda® Aspirating Smoke Detection System (Ansul 430470) .....	13,102.06	2,133.74
21 22 16 00-0320 EA Aspirator For LaserPLUS And Laser Scanner, VSP-015, Vesda® Aspirating Smoke Detection System (Ansul 430475) .....	1,019.65	158.76
21 22 16 00-0321 EA Filter Cover, VSP-019, Vesda® Aspirating Smoke Detection System (Ansul 430477) .....	22.98	3.18
21 22 16 00-0322 EA Cover Screws, 17606, Vesda® Aspirating Smoke Detection System (Ansul 430478) .....	12.36	0.63
21 22 16 00-0323 EA US Power Supply Circuit Board Only, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430481) .....	564.15	92.08
21 22 16 00-0324 EA Relay Processor Module (DRP), VSP-102, Vesda® Aspirating Smoke Detection System (Ansul 430483) .....	683.59	111.76
21 22 16 00-0325 EA Aspirator, LaserCOMPACT, VSP-501, Vesda® Aspirating Smoke Detection System (Ansul 430486) .....	987.12	161.94
21 22 16 00-0326 EA RO-Cable For LaserCOMPACT Relay Only, (RO) Version, VSP-509, Vesda® Aspirating Smoke Detection System (Ansul 430488) .....	145.59	24.13
21 22 16 00-0327 EA Miniature Sampling Point, E700-SP, Vesda® Aspirating Smoke Detection System (Ansul 430502) .....	23.43	5.08
<b>21 22 16 00-0328 Labels And Decals, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>		
21 22 16 00-0329 EA Sampling Point Labels, Roll Of 35, E700-SP-DCL-PIPE, Vesda® Aspirating Smoke Detection System (Ansul 430509) .....	20.86	3.81
21 22 16 00-0330 EA Round Point Label, Roll Of 50, E700-SP-DCL-PNT, Vesda® Aspirating Smoke Detection System (Ansul 430505) .....	22.15	4.44
21 22 16 00-0331 EA Red, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLR, Vesda® Aspirating Smoke Detection System (Ansul 430506) .....	33.54	5.71
21 22 16 00-0332 EA Grey, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLG, Vesda® Aspirating Smoke Detection System (Ansul 430507) .....	33.58	5.71
21 22 16 00-0333 EA Sampling Point Decal, Wrap-Around Style, Roll Of 200, E700-SP-DCL, Vesda® Aspirating Smoke Detection System (Ansul 430508) .....	122.18	21.59
<b>21 22 16 00-0334 Mounting Hardware, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>		
21 22 16 00-0335 EA Remote Mounting Single Box With Escutcheon Only, VKT-000, Vesda® Aspirating Smoke Detection System (Ansul 430456) .....	297.70	45.72
21 22 16 00-0336 EA Recessed Mounting Kit For Remote Single Boxes, VSP-012, Vesda® Aspirating Smoke Detection System (Ansul 430472) .....	400.77	60.96
21 22 16 00-0337 EA Recessed Mounting Kit For VLP Or VLS Detector, VSP-011, Vesda® Aspirating Smoke Detection System (Ansul 430471) .....	412.30	66.68
21 22 16 00-0338 EA Remote 19 Sub Rack With 4 Blank Plates, VSR-0000, Vesda® Aspirating Smoke Detection System (Ansul 430457) .....	967.28	95.25
21 22 16 00-0339 EA Sub Rack Enclosure, VRE-100, Vesda® Aspirating Smoke Detection System (Ansul 430445) .....	1,460.52	209.56
<b>21 22 16 00-0340 Pipe And Fittings, Vesda® Aspirating Smoke Detection System</b> <small>(21 22 16 00-0266)</small>		
21 22 16 00-0341 LF 3/4", Orange Chlorinated Polyvinyl Chloride (CPVC) Pipe, Vesda® Aspirating Smoke Detection System (Ansul 430491) .....	7.17	2.29
21 22 16 00-0342 EA 3/4", End Cap, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430497) .....	12.67	4.59
21 22 16 00-0343 EA 3/4", 45 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430494) .....	35.61	13.78
21 22 16 00-0344 EA 3/4", 90 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430493) .....	36.48	13.78
21 22 16 00-0345 EA 3/4", Coupling, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430495) .....	24.94	9.18
21 22 16 00-0346 EA 3/4", Union, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430496) .....	39.51	13.78
21 22 16 00-0347 EA 3/4", Tee, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430498) .....	54.38	20.66
21 22 16 00-0348 EA 3/4" x 1/2" FPT, Tee, Chlorinated Polyvinyl Chloride (CPVC), Vesda® Aspirating Smoke Detection System (Ansul 430499) .....	66.91	24.25
21 22 16 00-0349 LF 1/2" OD x 3/8" ID, Black Polyethylene Tubing, Vesda® Aspirating Smoke Detection System (Ansul 430500) .....	6.22	2.30
21 22 16 00-0350 EA Pipe Adapters, Metric-To-Imperial, VSP-021, Vesda® Aspirating Smoke Detection System (Ansul 430479) .....	23.49	6.99

<b>21</b>	<b>Fire Suppression</b>
<b>21 20</b>	<b>Fire-Extinguishing Systems</b>
<b>21 22</b>	<b>Clean-Agent Fire-Extinguishing Systems</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0351 EA Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Plastic, E700-CAP KIT, Vesda® Aspirating Smoke Detection System (Ansul 430503) .....	26.82	5.08
21 22 16 00-0352 EA Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Brass, Vesda® Aspirating Smoke Detection System (Ansul 430504) .....	38.31	6.99
<b>21 22 16 00-0353 Remote Termination And Relay Cards, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)</b>		
21 22 16 00-0354 EA VRT-500, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430396) .....	1,707.90	243.86
Note: Remote box includes 7 relays for VLP/VLC.		
21 22 16 00-0355 EA VN, Compact Termination Card, VSP-515, Vesda® Aspirating Smoke Detection System (Ansul 430490) .....	1,758.16	280.69
21 22 16 00-0356 EA 12-Relay, Remote Termination Card, VSP-208, Vesda® Aspirating Smoke Detection System (Ansul 430485) .....	1,065.03	171.46
21 22 16 00-0357 EA RO, Compact Termination Card, VSP-510, Vesda® Aspirating Smoke Detection System (Ansul 430489) .....	1,215.74	193.69
21 22 16 00-0358 EA VRT-501, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430397) .....	1,707.90	243.86
Note: Remote box includes 7 relays for VLS.		
21 22 16 00-0359 EA VRT-900 Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430398) .....	2,053.68	280.69
Note: Remote box includes 12 relays for VLS.		
21 22 16 00-0360 EA Remote Termination Card Without Relay, VSP-007, Vesda® Aspirating Smoke Detection System (Ansul 430468) .....	586.20	86.36
21 22 16 00-0361 EA Remote Termination Card (RTC7), VSP-008, Vesda® Aspirating Smoke Detection System (Ansul 430469) .....	882.85	132.08
21 22 16 00-0362 EA 7-Relay, Head Termination Card, VSP-014, Vesda® Aspirating Smoke Detection System (Ansul 430474) .....	1,675.82	273.07
21 22 16 00-0363 EA 12-Relay, Head Termination Card, VSP-016, Vesda® Aspirating Smoke Detection System (Ansul 430476) .....	2,458.18	400.07
<b>21 22 16 00-0364 Preferred® Low Pressure CO2 System (21 22 16 00-0001)</b>		
<b>21 22 16 00-0365 Manual Pull Stations, Preferred® Low Pressure CO2 System (21 22 16 00-0364)</b>		
21 22 16 00-0366 EA Addressable, DPST, Dual Action Pull Station, Preferred® Low Pressure CO2 System (Ansul 428658) .....	133.04	22.22
Note: Excludes FMM-101.		
21 22 16 00-0367 EA Weatherproof Backbox For Manual Pull Stations, Preferred® Low Pressure CO2 System (Ansul 428659) .....	99.45	16.51
<b>21 22 16 00-0368 Industrial Fire Control System (21 22 16 00-0001)</b>		
<b>21 22 16 00-0369 Alarm Devices, Industrial Fire Control System (21 22 16 00-0368)</b>		
21 22 16 00-0370 EA Explosion Proof Alarm Horn, Alarm Devices, Industrial Fire Control System (Ansul 65947) .....	3,245.85	585.82
21 22 16 00-0371 EA 6", 115 Volt AC Alarm Bell For Release Systems, Alarm Devices, Industrial Fire Control System (Ansul 24751) .....	96.89	13.46
21 22 16 00-0372 EA 24 Volt AC, Multitone Horn, Alarm Devices, Industrial Fire Control System (Ansul 429697) .....	97.92	17.47
21 22 16 00-0373 EA Weatherproof Surface Back Box For Horn And Strobe, Alarm Devices, Industrial Fire Control System (Ansul 429700) .....	58.37	10.48
21 22 16 00-0374 EA Semi-Flush Plate, Alarm Devices, Industrial Fire Control System (Ansul 429701) .....	23.84	4.25
<b>21 22 16 00-0375 Manual Pull Stations, Industrial Fire Control System (21 22 16 00-0368)</b>		
21 22 16 00-0376 EA SPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428655) .....	109.96	18.42
21 22 16 00-0377 EA DPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428656) .....	155.08	26.03
21 22 16 00-0378 EA Explosion Proof, DPDT, Dual Action Pull Station, Industrial Fire Control System (Ansul 428657) .....	1,211.38	204.48
21 22 16 00-0379 EA Surface Mounted Backbox For Manual Pull Stations, Industrial Fire Control System (Ansul 428660) .....	35.20	5.90
21 22 16 00-0380 EA Extra Pull Station Labels For Manual Pull Stations, Industrial Fire Control System (Ansul 428654) .....	15.77	2.63
<b>21 22 16 00-0381 Marine Fire Control System (21 22 16 00-0001)</b>		
<b>21 22 16 00-0382 Alarm Devices, Marine Fire Control System (21 22 16 00-0381)</b>		
21 22 16 00-0383 EA Weatherproof Surface Mount Back Box For Alarm Accessories, Alarm Devices, Marine Fire Control System (Ansul 24747) .....	63.77	10.67
21 22 16 00-0384 EA 6", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417805) .....	118.04	20.64
21 22 16 00-0385 EA 10", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417806) .....	118.04	20.64
<b>21 22 16 00-0386 FM200 System Equipment (21 22 16)</b>		
21 22 16 00-0387 EA 26 LB Cylinder, Filled, For FM200 Fire Protection system .....	3,672.86	153.18
21 22 16 00-0388 EA 44 LB Cylinder, Filled, For FM200 Fire Protection system .....	5,247.46	175.39
21 22 16 00-0389 EA 63 LB Cylinder, Filled, For FM200 Fire Protection system .....	6,228.41	206.79
21 22 16 00-0390 EA 101 LB Cylinder, Filled, For FM200 Fire Protection system .....	8,243.28	245.08
21 22 16 00-0391 EA 196 LB Cylinder, Filled, For FM200 Fire Protection system .....	12,854.52	306.36
21 22 16 00-0392 EA Electro/Mechanical Release, For FM200 Fire Protection system .....	918.76	306.36
21 22 16 00-0393 EA Manual Pull Station, For FM200 Fire Protection system .....	318.47	101.86
21 22 16 00-0394 EA Pneumatic Damper Release, For FM200 Fire Protection system .....	369.96	76.59
21 22 16 00-0395 LB FM200 Gas .....	29.09	
21 22 16 00-0396 EA Master Cylinder, For FM200 Fire Protection system .....	5,926.43	82.41
21 22 16 00-0397 EA Shuttle Check Valve, For FM200 Fire Protection system .....	892.48	115.19
21 22 16 00-0398 EA Flex Head Cylinder, For FM200 Fire Protection system .....	892.92	123.46
21 22 16 00-0399 EA Nozzles, For FM200 Fire Protection system .....	227.60	43.66
21 22 16 00-0400 EA Cylinder Support, For FM200 Fire Protection system .....	279.15	82.41
21 22 16 00-0401 EA Solenoid Valve, For FM200 Fire Protection system .....	1,142.27	123.46
21 22 16 00-0402 EA Battery Back-Up, For FM200 Fire Protection system .....	953.76	325.66
21 22 16 00-0403 EA Control Panel, Single Zone, For FM200 Fire Protection system .....	4,538.96	611.80
21 22 16 00-0404 EA Control Panel, Multi Zone, For FM200 Fire Protection system .....	7,448.81	1,224.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0405 EA Smoke Or Heat Detector, For FM200 Fire Protection system .....	394.58	123.46
21 22 16 00-0406 EA Annunciator, For FM200 Fire Protection system.....	3,663.06	463.67
21 22 16 00-0407 EA Pressure Switch, For FM200 Fire Protection system.....	424.00	123.46
21 22 16 00-0408 EA Alarm Horn, For FM200 Fire Protection system.....	391.74	123.46
21 22 16 00-0409 EA Testing, For FM200 Fire Protection system.....	1,703.52	
21 22 16 00-0410 EA Abort Switch, For FM200 Fire Protection system.....	259.56	57.45

**21 23 Wet-Chemical Fire-Extinguishing Systems** (21 20)

**21 23 16 Wet-Chemical Fire-Extinguishing Equipment** (21 23)

21 23 16 00-0001 Kidde Fire Systems (21 23 16)

Note: Kidde or equal.

21 23 16 00-0002 Cylinders And Hardware (21 23 16 00-0001)

21 23 16 00-0003 EA 125 Cylinder And Valve Assembly With 1.25 Gallon of Wet Agent.....	978.83	126.88
21 23 16 00-0004 EA 260 Cylinder And Valve Assembly With 2.6 Gallon Of Wet Agent .....	1,131.09	158.04
21 23 16 00-0005 EA 400S And M Cylinder And Valve Assembly With 4 Gallon Of Wet Agent .....	1,386.75	194.98
21 23 16 00-0006 EA 600 And L Cylinder And Valve Assembly With 6 Gallon Of Wet Agent.....	1,638.15	231.35
21 23 16 00-0007 EA Discharge Adapter Kit (One Required Per Cylinder).....	54.60	6.63
21 23 16 00-0008 EA System Valve Actuator .....	197.54	26.37
21 23 16 00-0009 EA Vent Plug .....	37.26	5.36
21 23 16 00-0010 EA Gauge Shield.....	100.21	14.10
21 23 16 00-0011 EA 125 Cylinder Wall Mounting Bracket.....	102.07	14.10
21 23 16 00-0012 EA 260 Cylinder Wall Mounting Bracket.....	108.20	14.94
21 23 16 00-0013 EA 400S And M Cylinder Wall Mounting Bracket.....	205.53	28.20
21 23 16 00-0014 EA 600 And 400M Cylinder Shelf Bracket.....	204.27	32.01
21 23 16 00-0015 EA 600 And 400M Cylinder Floor Mounting Kit .....	292.51	32.08
21 23 16 00-0016 EA 125 And 260 Cylinder Replacement Bracket Strap.....	40.84	
21 23 16 00-0017 EA 400 And 600 Cylinder Replacement Bracket Strap.....	42.90	

21 23 16 00-0018 Nozzles And Accessories (21 23 16 00-0001)

21 23 16 00-0019 EA ADP, F, GRW Or R Nozzle .....	91.66	12.97
21 23 16 00-0020 EA LPF Or DM Nozzle.....	99.04	12.97
21 23 16 00-0021 EA LPR Nozzle.....	114.25	12.97
21 23 16 00-0022 EA 3/8" Swivel Adapter For Nozzles .....	68.48	9.16
21 23 16 00-0023 EA Removal And Replacement Of Nozzle Seals .....	10.83	
21 23 16 00-0024 EA Chrome Nozzle Disc Cap .....	6.65	0.84
21 23 16 00-0025 EA LPR Nozzle Disc Cap .....	42.26	12.90

21 23 16 00-0026 Control Systems (21 23 16 00-0001)

21 23 16 00-0027 EA XV Control System .....	1,220.46	84.59
Note: Includes (1) SVA, (1) system cartridge, (1) test cartridge, (1) EMT connector kit, (1) SPDT microswitch kit, and (1) SPDT microswitch kit.		
21 23 16 00-0028 EA 7-1/2" High Pressure Hose (Required for cylinder mounted XV Control System).....	106.38	14.10
21 23 16 00-0029 EA 24" High Pressure Hose .....	124.89	14.10
21 23 16 00-0030 EA 60" High Pressure Hose .....	166.04	14.10
21 23 16 00-0031 EA XV Solenoid Kit (Electric Actuator), 24 Volt DC.....	243.60	28.20
21 23 16 00-0032 EA XV Microswitch Kit, SPDT .....	82.06	13.25
21 23 16 00-0033 EA XV Microswitch Kit, SPDT, Terminal Type, For Alarm/Release .....	88.23	13.25
21 23 16 00-0034 EA EMT Connector Kit (EMT Connector And O-Ring).....	37.61	10.57
21 23 16 00-0035 EA KRS-50 Control Box Assembly.....	689.42	54.63
Note: Includes (1) SVA, (2) CO2 cartridges, (2) set screws, (1) grommet, (1) cover label, and (1) exhaust fan caution label.		
21 23 16 00-0036 EA SPDT Microswitch For KRS-50.....	95.88	13.25
21 23 16 00-0037 EA DPDT Microswitch For KRS-50 .....	172.99	22.98
21 23 16 00-0038 EA SPDT Pressure Switch (Fire Department Tie-In).....	532.76	73.73

21 23 16 00-0039 Mechanical Actuation Components (21 23 16 00-0001)

21 23 16 00-0040 EA Universal Detector Link Housing Kit, Mechanical Actuation Systems.....	67.39	21.15
Note: Includes (1) bracket (11-3/4"), (2) "S" hook, and (2) cable crimp sleeves.		
21 23 16 00-0041 EA XV Low Profile Link Detector Housing Kit.....	95.78	21.15
Note: Includes (1) bracket, (2) 1/2" EMT connectors, (4) cable crimp sleeves, and (1) S hook.		
21 23 16 00-0042 EA XV Or KRS-50 Remote Manual Release, Combination Pull-To-Trip/Release-To-Trip.....	242.16	14.10
21 23 16 00-0043 EA XV Remote Manual Release, Pull-To-Trip .....	186.61	14.10
21 23 16 00-0044 EA Corner Pulley, Mechanical Actuation Systems .....	26.80	3.81
21 23 16 00-0045 EA Double Tee Pulley, Mechanical Actuation Systems.....	355.05	23.26
21 23 16 00-0046 EA In-Line Tee Pulley, Mechanical Actuation Systems .....	44.80	6.20
21 23 16 00-0047 EA Corner Pulley / Quik-Seal Adapter Combination.....	98.45	7.05
21 23 16 00-0048 LF 1/16" Cable, Mechanical Actuation Systems .....	3.28	1.41
21 23 16 00-0049 EA Cable Clamp.....	13.75	0.70
21 23 16 00-0050 EA Cable Crimp Sleeve, Mechanical Actuation Systems .....	1.95	0.56
21 23 16 00-0051 EA "S" Hook, Mechanical Actuation Systems.....	1.89	0.56
21 23 16 00-0052 EA 1/2" EMT x 3/8" NPT Adapter, Mechanical Actuation Systems.....	95.56	13.11

21 23 16 00-0053 Mechanical Detection Links (21 23 16 00-0001)

**21 Fire Suppression****21 20 Fire-Extinguishing Systems****21 23 Wet-Chemical Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0054 EA KGS Standard Response Link .....	22.66	7.05
21 23 16 00-0055 EA KGS Rapid Response Link .....	31.23	7.05
21 23 16 00-0056 EA KFA Type "A" Fusible Link.....	27.39	7.05
21 23 16 00-0057 EA KML Type "ML" Fusible Link.....	28.50	7.05
21 23 16 00-0058 EA 500 Degree, KML Type "ML" Fusible Link .....	40.84	7.05
<b>21 23 16 00-0059 Gas Valves (21 23 16 00-0001)</b>		
21 23 16 00-0060 EA 3/4" NPT Mechanical Cable Operated Gas Shut-off Valve .....	416.73	30.45
21 23 16 00-0061 EA 1" NPT Mechanical Cable Operated Gas Shut-off Valve .....	455.99	37.50
21 23 16 00-0062 EA 1-1/4" NPT Mechanical Cable Operated Gas Shut-off Valve.....	526.02	47.37
21 23 16 00-0063 EA 1-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve .....	578.56	54.56
21 23 16 00-0064 EA 2" NPT Mechanical Cable Operated Gas Shut-off Valve .....	627.91	64.43
21 23 16 00-0065 EA 2-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve .....	1,034.36	94.17
21 23 16 00-0066 EA 3" NPT Mechanical Cable Operated Gas Shut-off Valve .....	1,157.13	108.97
21 23 16 00-0067 EA Pneumatic Release (Single Unit) .....	473.25	34.40
21 23 16 00-0068 EA Removal And Replacement Of Cable Block And Set Screw Assembly For Gas Valve .....	66.41	
21 23 16 00-0069 EA 1/2" Electric Solenoid Gas Shut-off Valve .....	433.15	28.34
21 23 16 00-0070 EA 3/4" Electric Solenoid Gas Shut-off Valve .....	437.40	30.45
21 23 16 00-0071 EA 1" Electric Solenoid Gas Shut-off Valve.....	670.10	37.50
21 23 16 00-0072 EA 1-1/4" Electric Solenoid Gas Shut-off Valve.....	713.55	47.37
21 23 16 00-0073 EA 1-1/2" Electric Solenoid Gas Shut-off Valve .....	819.24	54.56
21 23 16 00-0074 EA 2" Electric Solenoid Gas Shut-off Valve .....	1,050.22	64.43
21 23 16 00-0075 EA 2-1/2" Electric Solenoid Gas Shut-off Valve.....	1,729.84	94.17
21 23 16 00-0076 EA 3" Electric Solenoid Gas Shut-off Valve .....	2,168.60	108.97
21 23 16 00-0077 EA Manual Reset Relay.....	645.18	141.69
<b>21 23 16 00-0078 Liquid Tight Sealing Adapters (21 23 16 00-0001)</b>		
21 23 16 00-0079 EA 3/8" Tubing, Compression Seal Adapter .....	48.75	5.92
21 23 16 00-0080 EA 1/2" Tubing, 1/4" Pipe, Compression Seal Adapter .....	48.31	6.49
21 23 16 00-0081 EA 5/8" Tubing, 3/8" Pipe, Compression Seal Adapter .....	56.81	7.75
21 23 16 00-0082 EA 3/4" Tubing, 1/2" Pipe, Compression Seal Adapter .....	65.25	8.32
21 23 16 00-0083 EA 1/2" Electrical Metallic Tubing (EMT), Compression Seal Adapter .....	56.81	7.75
21 23 16 00-0084 EA 3/8" NPT Female, Quik-Seal Adapter .....	48.31	6.49
21 23 16 00-0085 EA 1/2" NPT Female, Quik-Seal Adapter .....	48.31	6.49
21 23 16 00-0086 EA 3/4" NPT Female, Quik-Seal Adapter .....	79.53	11.00
21 23 16 00-0087 EA 1" NPT Female, Quik-Seal Adapter .....	105.85	14.52
21 23 16 00-0088 EA Quik-Patch For Hole Patching Up To 1-1/8" Diameter.....	48.31	
<b>21 23 16 00-0089 Pressure Operated Releasing Systems (21 23 16 00-0001)</b>		
21 23 16 00-0090 EA KRS-100 Nitrogen Cylinder.....	349.41	42.58
21 23 16 00-0091 EA KRS-100 Actuator Assembly .....	315.68	43.42
21 23 16 00-0092 EA KRS-100 Mounting Bracket .....	236.88	10.72
21 23 16 00-0093 EA KRS-700S Nitrogen Cylinder .....	905.56	122.79
21 23 16 00-0094 EA KRS-700 Mounting Bracket .....	192.83	26.23
21 23 16 00-0095 EA KRS-700S Discharge Adapter Kit .....	285.61	26.23
21 23 16 00-0096 EA Check Valve, Pressure Operated Releasing Systems .....	279.33	18.61
21 23 16 00-0097 EA Vent Check, Pressure Operated Releasing Systems .....	88.78	11.85
21 23 16 00-0098 EA Removal And Replacement Of Receiver Gasket For KRS-100 Actuator Assembly .....	11.62	
21 23 16 00-0099 EA 3 Pole, Double Throw Pressure Switch.....	725.99	98.69
<b>21 23 16 00-0100 Pyro-Chem Kitchen Fire Suppression Systems (21 23 16)</b>		
<b>21 23 16 00-0101 Cylinders, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0102 EA 3.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551194) .....	925.04	100.10
21 23 16 00-0103 EA 4.6 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551193) .....	1,332.51	144.22
21 23 16 00-0104 EA 6.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551196) .....	1,753.24	197.23
21 23 16 00-0105 EA Cylinder Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550053) .....	190.85	23.54
21 23 16 00-0106 EA Enclosure With Mechanical Control Unit, Kitchen Fire Suppression Systems (Pyro-Chem 551208) .....	1,256.21	153.95
21 23 16 00-0107 EA Enclosure For Secondary Cylinders, Kitchen Fire Suppression Systems (Pyro-Chem 550966).....	766.98	93.89
<b>21 23 16 00-0108 Fusible Links, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0109 EA 165 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551522).....	24.77	3.10
21 23 16 00-0110 EA 212 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551523).....	24.77	3.10
21 23 16 00-0111 EA 280 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551524).....	25.33	3.10
21 23 16 00-0112 EA 360 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551525).....	24.77	3.10
21 23 16 00-0113 EA 450 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551526).....	24.77	3.10
21 23 16 00-0114 EA 500 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551527).....	26.82	3.10
21 23 16 00-0115 EA Fusible Link Kit With 10" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550131).....	42.91	5.22
21 23 16 00-0116 EA Fusible Link Kit With 8" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550132).....	55.71	6.91
21 23 16 00-0117 EA Fusible Link Hanger, Kitchen Fire Suppression Systems (Pyro-Chem 550876) .....	80.03	35.67
21 23 16 00-0118 EA 225 To 600 Fahrenheit, Electrical Thermal Detector, Kitchen Fire Suppression Systems (Pyro-Chem 13970-6) .....	541.76	79.37
<b>21 23 16 00-0119 Gas Valves, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0120 EA 3/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550593).....	436.97	30.45





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0121 EA 1" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550594).....	498.96	37.50
21 23 16 00-0122 EA 1-1/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550595).....	541.55	47.37
21 23 16 00-0123 EA 1-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550596).....	596.73	54.42
21 23 16 00-0124 EA 2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 551049).....	687.18	64.29
21 23 16 00-0125 EA 2-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550185).....	1,576.42	94.03
21 23 16 00-0126 EA 3" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550186).....	1,685.89	108.83
21 23 16 00-0127 EA 3/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550358).....	345.75	30.45
21 23 16 00-0128 EA 1" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550359).....	583.33	37.50
21 23 16 00-0129 EA 1-1/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550360).....	612.22	47.37
21 23 16 00-0130 EA 1-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550361).....	697.04	54.42
21 23 16 00-0131 EA 2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550362).....	960.78	64.29
21 23 16 00-0132 EA 2-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550363).....	1,845.43	94.03
21 23 16 00-0133 EA 3" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 17643).....	1,950.38	108.83
<b>21 23 16 00-0134 Nozzles, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0135 EA Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....	88.61	10.43
21 23 16 00-0136 EA Swivel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....	125.16	13.25
21 23 16 00-0137 EA Stainless Steel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....	467.05	13.25
<b>21 23 16 00-0138 Actuating Cylinders/Cartridges, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0139 EA Carbon Dioxide Actuation Cartridge, Kitchen Fire Suppression Systems (Pyro-Chem 551059).....	32.79	4.09
21 23 16 00-0140 EA PAC-10, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550104).....	1,074.22	132.38
21 23 16 00-0141 EA PAC-200, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550690).....	1,369.08	169.32
<b>21 23 16 00-0142 Circuit Monitors, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0143 EA 24 Volt DC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550303).....	702.26	86.70
21 23 16 00-0144 EA 120 Volt AC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550302).....	847.32	104.47
<b>21 23 16 00-0145 Control Heads, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0146 EA Mechanical Control Head, No Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551203).....	774.78	95.59
21 23 16 00-0147 EA Mechanical Control Head With Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551200).....	808.76	99.95
21 23 16 00-0148 EA 24 Volt DC, Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551201).....	1,053.38	129.98
21 23 16 00-0149 EA 120 Volt AC Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551202).....	1,208.53	149.44
21 23 16 00-0150 EA Control Head Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550853).....	98.16	12.13
<b>21 23 16 00-0151 Corner Pulleys/Tees, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0152 EA Set Screw Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 415670).....	24.12	1.97
21 23 16 00-0153 EA Compression Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 423250).....	25.01	2.53
21 23 16 00-0154 EA Tee Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550166).....	78.70	9.72
21 23 16 00-0155 EA Removal And Replacement Of Screw For Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550272).....	1.04	
<b>21 23 16 00-0156 Switches, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0157 EA SPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550227).....	85.57	10.57
21 23 16 00-0158 EA DPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550237).....	171.38	21.01
21 23 16 00-0159 EA Four Pole Double Throw Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550978).....	362.69	44.55
<b>21 23 16 00-0160 Wire Rope/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0161 LF 1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 15821).....	1.81	0.42
21 23 16 00-0162 EA Crimps For 1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 550122).....	1.15	0.42
21 23 16 00-0163 EA High Temperature Stainless Steel Crimps, Kitchen Fire Suppression Systems (Pyro-Chem 551551).....	4.25	0.56
21 23 16 00-0164 EA "S" Hooks, Kitchen Fire Suppression Systems (Pyro-Chem 550121).....	0.79	
<b>21 23 16 00-0165 Replacement Parts, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0166 EA Wet Valve Rebuilding Kit, Kitchen Fire Suppression Systems (Pyro-Chem 550698).....	81.35	10.15
21 23 16 00-0167 EA Wet Valve Cap With Schrader Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550831).....	84.92	10.57
21 23 16 00-0168 EA Wet Spring, Kitchen Fire Suppression Systems (Pyro-Chem 550705).....	9.94	1.27
21 23 16 00-0169 EA 225 psi, Wet Gauge, Kitchen Fire Suppression Systems (Pyro-Chem 551236).....	116.47	13.82
21 23 16 00-0170 EA Wet Valve O-ring, Kitchen Fire Suppression Systems (Pyro-Chem 550716).....	16.36	1.97
21 23 16 00-0171 EA Wet Piston, Kitchen Fire Suppression Systems (Pyro-Chem 550707).....	22.78	2.82
21 23 16 00-0172 EA Wet Piston O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 550715).....	9.94	1.27
21 23 16 00-0173 EA Wet Nozzle Cap, Kitchen Fire Suppression Systems (Pyro-Chem 551528).....	14.01	1.69
21 23 16 00-0174 EA Wet Nozzle Strainer, Kitchen Fire Suppression Systems (Pyro-Chem 551529).....	13.70	1.69
21 23 16 00-0175 EA Wet Nozzle Cap O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 551530).....	3.92	0.42
21 23 16 00-0176 EA Removal And Replacement Of Teflon Washer For Control Head Actuator, Kitchen Fire Suppression Systems (Pyro-Chem 550257).....	6.63	
21 23 16 00-0177 EA O-Ring Lubrication, Kitchen Fire Suppression Systems (Pyro-Chem 550063).....	126.89	
21 23 16 00-0178 EA 3.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 551024).....	858.12	
21 23 16 00-0179 EA 4.6 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550902).....	1,117.02	

**21 Fire Suppression****21 20 Fire-Extinguishing Systems****21 23 Wet-Chemical Fire-Extinguishing Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0180 EA 6.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550901).....	1,291.68	
<b>21 23 16 00-0181 Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0182 EA 3/8" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550857) .....	39.80	4.80
21 23 16 00-0183 EA 1/2" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550859) .....	41.24	5.08
21 23 16 00-0184 EA Wet Valve Tool, Kitchen Fire Suppression Systems (Pyro-Chem 550788).....	79.40	9.72
21 23 16 00-0185 EA Recharge Adapter Kit, Kitchen Fire Suppression Systems (Pyro-Chem 551240).....	112.36	
21 23 16 00-0186 EA 3.0 Gallon Of Wet Chemical For Recharge, Kitchen Fire Suppression Systems (Pyro-Chem 551188).....	241.50	
<b>21 23 16 00-0187 Pull Stations/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)</b>		
21 23 16 00-0188 EA Mechanical, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551074) .....	160.51	19.88
21 23 16 00-0189 EA Electric, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551166) .....	174.44	27.91
21 23 16 00-0190 EA Trim Ring For Flush Mounting Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 550088).....	42.91	5.22
21 23 16 00-0191 EA Glass Rods For Pull Stations, Kitchen Fire Suppression Systems (Pyro-Chem 428661) .....	6.18	1.83
<b>21 23 16 00-0192 Asco Gas Valve Control Panels (21 23 16)</b>		
21 23 16 00-0193 EA Relay Control Panel For AC Solenoid Valves (Asco 108D90C).....	2,655.44	310.16
21 23 16 00-0194 EA Relay Control Panel For DC Solenoid Valves (Asco 108D10C) .....	2,739.94	310.16
21 23 16 00-0195 EA Master Control Station For Relay Control Panel For DC Solenoid Valves (Asco 216C89) .....	880.04	70.49
21 23 16 00-0196 EA Emergency Stop Station For Relay Control Panel (Asco 173A19) .....	824.85	70.49
<b>21 24 Dry-Chemical Fire-Extinguishing Systems (21 20)</b>		
<b>21 24 16 Dry-Chemical Fire-Extinguishing Equipment (21 24)</b>		
<b>21 24 16 00-0001 Amerex KP Restaurant Fire Suppression Systems (21 24 16)</b>		
Note: Amerex or equal.		
21 24 16 00-0002 EA 3.75 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve.....	627.70	109.40
21 24 16 00-0003 EA 6 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve.....	866.45	137.97
21 24 16 00-0004 EA Recharge - KP Liquid Agent (3.75 Gallon).....	205.79	
21 24 16 00-0005 EA Recharge - KP Liquid Agent (6 Gallon).....	361.74	
21 24 16 00-0006 EA 3.75 Gallon, Bracket Assembly Agent Cylinder With Distribution Hose Assembly And Distribution Outlet.....	144.05	22.97
21 24 16 00-0007 EA 6 Gallon, Bracket Assembly Agent Cylinder .....	83.91	13.32
21 24 16 00-0008 EA 6 Gallon, 3/4 NPT, Agent Cylinder Discharge Adapter Kit .....	36.39	
21 24 16 00-0009 EA 6 Gallon, Pneumatic Actuator, Agent Cylinder .....	144.05	22.97
21 24 16 00-0010 EA MRM Actuator (Less N2 Cylinder And Enclosure).....	361.74	57.58
21 24 16 00-0011 EA Painted Steel, MRM Enclosure .....	192.79	30.63
21 24 16 00-0012 EA Stainless Steel, MRM Enclosure.....	231.18	30.63
21 24 16 00-0013 EA Stainless Steel, Single Cylinder System Cabinet.....	574.04	91.42
21 24 16 00-0014 EA N2 - 1/4" x 16" Actuation Hose .....	43.32	6.90
21 24 16 00-0015 EA 10 CU. Inch, Nitrogen Cylinder .....	192.79	30.63
Note: Use For 1-10 Agent Cylinders		
21 24 16 00-0016 EA Vent Check .....	34.67	5.51
21 24 16 00-0017 EA Detector .....	25.99	4.13
Note: Includes bracket, linkage and conduit fittings.		
21 24 16 00-0018 EA 280 To 450 Degree F, Fusible Link.....	9.75	1.53
21 24 16 00-0019 EA Test Link .....	3.77	
21 24 16 00-0020 EA Corner Pulley .....	13.42	2.14
21 24 16 00-0021 EA 1/16", 500 Foot Spool, Cable.....	216.60	34.46
21 24 16 00-0022 EA Pulley Tee.....	97.47	15.47
21 24 16 00-0023 EA Manual Pull Station (Standard).....	86.63	13.78
21 24 16 00-0024 EA Manual Pull Station, Adapter Kit (Recess Standard Pull Station) .....	40.65	6.43
21 24 16 00-0025 EA Manual Pull Station (Oversized) .....	96.61	15.31
21 24 16 00-0026 EA Conduit Offset.....	19.27	3.07
21 24 16 00-0027 EA 3/8" Pipe Thread, Seal (Quick-Seal).....	26.57	4.29
21 24 16 00-0028 EA 1/2" Pipe Thread, Seal (Quick-Seal) .....	21.67	3.52
21 24 16 00-0029 EA 3/8" Pipe Compression Seal .....	36.17	5.82
21 24 16 00-0030 EA 1/2" Pipe Compression Seal.....	36.17	5.82
21 24 16 00-0031 EA Cap, Nozzle Blow-Off (Standard).....	11.62	3.98
21 24 16 00-0032 EA Cap, Nozzle Blow-Off (High Temperature) .....	24.17	3.98
21 24 16 00-0033 EA 2 Flow Points, Fryer/Griddle Nozzle .....	43.32	6.90
21 24 16 00-0034 EA 1 Flow Point Each, Appliance, Plenum Nozzle .....	43.32	6.90
21 24 16 00-0035 EA Nozzle - Solid Fuel Charbroiler - 1 To 1-1/2 Flow Points Each .....	43.32	6.90
21 24 16 00-0036 EA 1/2 Flow Points Each, Upright Charbroiler Nozzle .....	43.32	6.90
21 24 16 00-0037 EA 2 Flow Points Each, Duct (Only) Nozzle .....	43.32	6.90
21 24 16 00-0038 EA 2 Flow Points Each, Four Burner Range Nozzle.....	62.30	9.95
21 24 16 00-0039 EA 3/4" Or 1" Mechanical Gas Valve.....	336.61	40.58
21 24 16 00-0040 EA 1-1/4" Or 1-1/2" Mechanical Gas Valve .....	402.90	58.96
21 24 16 00-0041 EA 2" Mechanical Gas Valve .....	499.64	69.67
21 24 16 00-0042 EA Manual Reset Relay (Required With Every Electric Gas Valve) .....	545.84	86.83
21 24 16 00-0043 EA SPDT Microswitch With 18" Leads .....	28.73	4.59
21 24 16 00-0044 EA Kit Gas Valve Actuator For Use With ASCO Mechanical Gas Valve .....	46.36	7.35
21 24 16 00-0045 EA Gas Valve Trip Assembly.....	97.48	15.47
<b>21 24 16 00-0046 Range Guard Fire Suppression Systems (21 24 16)</b>		
Note: Range Guard or equal.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 24 16 00-0047 EA 1-1/4 Gallon Charged Cylinder With Valve .....	667.67	118.29
21 24 16 00-0048 EA 2-1/2 Gallon Charged Cylinder With Valve .....	833.43	147.61
21 24 16 00-0049 EA 4 Gallon Charged Cylinder With Valve .....	1,028.91	182.29
21 24 16 00-0050 EA 6 Gallon Charged Cylinder With Valve .....	1,222.12	216.41
21 24 16 00-0051 EA Vent Plug .....	28.06	4.94
21 24 16 00-0052 EA Discharge Adapter Kit .....	36.13	
21 24 16 00-0053 EA 1-1/4 Gallon Wall Bracket .....	74.32	13.11
21 24 16 00-0054 EA 2-1/2 Gallon Wall Bracket .....	78.66	13.96
21 24 16 00-0055 EA 4 Gallon Wall Bracket .....	148.55	26.37
21 24 16 00-0056 EA 6 Gallon Wall Bracket .....	164.63	29.18
21 24 16 00-0057 EA Mechanical Control Head, No Microswitch .....	580.77	102.92
21 24 16 00-0058 EA Mechanical Control Head, 1 Microswitch .....	605.92	107.28
21 24 16 00-0059 EA Mechanical Control Head, 2 Microswitches .....	695.11	123.07
21 24 16 00-0060 EA Tandem Control Head .....	528.18	93.61
21 24 16 00-0061 EA Electric Control Head, 120 Volt AC / 24 Volt DC .....	894.02	158.32
21 24 16 00-0062 EA Mechanical Control Box .....	397.85	70.49
21 24 16 00-0063 EA Tandem Control Box .....	397.85	70.49
21 24 16 00-0064 EA Mechanical Control Box Adapter .....	116.61	20.72
21 24 16 00-0065 EA A+ Control head With 1 Pressure Operated Actuator .....	350.45	62.03
21 24 16 00-0066 EA Pressure Operated Actuator .....	144.05	25.52
21 24 16 00-0067 EA BMCS-1 Nitrogen Cylinder .....	233.22	41.31
21 24 16 00-0068 EA BMCS-1 Actuator Assembly .....	237.80	42.15
21 24 16 00-0069 EA BMCS-1 Mounting Bracket .....	58.30	10.29
21 24 16 00-0070 EA BMCS-7 Nitrogen Cylinder .....	672.94	119.13
21 24 16 00-0071 EA BMCS-7 Mounting Bracket .....	144.05	25.52
21 24 16 00-0072 EA BMCS-7 Discharge Adapter Kit .....	144.05	25.52
21 24 16 00-0073 EA Check Valve .....	126.22	30.31
21 24 16 00-0074 EA Vent Check For Use With BMCS Systems .....	65.16	11.56
21 24 16 00-0075 EA Check Valve, (Schrader Flare Fitting) For Pressure Operated Actuator .....	28.36	5.02
21 24 16 00-0076 EA Removal And Replacement Of Receiver Gasket For BMCS-Actuator Assembly .....	7.47	
21 24 16 00-0077 EA Pneumatic Control Head For Slave Cylinders .....	148.62	26.37
21 24 16 00-0078 EA Nozzles; ADP, F, R And GRW .....	68.13	12.13
21 24 16 00-0079 EA Nozzles; DM And LPF .....	75.91	13.39
21 24 16 00-0080 EA Swivel Adapter .....	48.01	8.46
21 24 16 00-0081 EA Corner Pulley .....	20.58	3.67
21 24 16 00-0082 LF 1/16" Stainless Steel Cable .....	1.02	0.42
21 24 16 00-0083 EA Cable Crimp Sleeve .....	1.22	0.42
21 24 16 00-0084 EA "S" Hook .....	0.91	0.28
21 24 16 00-0085 EA Electrical Metallic Tubing (EMT) Adapter, 1/2" Electrical Metallic Tubing (EMT) x 3/8" NPT .....	70.84	12.55
21 24 16 00-0086 EA Cable Clamp .....	6.32	1.13
21 24 16 00-0087 EA Nico Sleeves - 1/16" Cable .....	0.91	0.28
21 24 16 00-0088 EA 3/8" Cable Anchor .....	74.88	13.25
21 24 16 00-0089 EA 1/2" Cable Anchor .....	74.88	13.25
21 24 16 00-0090 EA Mechanical Remote Manual Release (Pull Cable) .....	121.11	21.43
21 24 16 00-0091 EA Tee Pulley, Use For Mechanical Pull And Gas Valve .....	129.25	22.84
21 24 16 00-0092 EA Surface Remote Manual Release, End-of-line .....	151.42	26.79
21 24 16 00-0093 EA Surface Remote Manual Release, In line Conservation Kit .....	47.45	8.46
21 24 16 00-0094 EA Surface Remote Manual Release, In line And End Of Line .....	198.79	35.10
21 24 16 00-0095 EA Recessed Remote Manual Release, End-of-line .....	151.42	26.79
21 24 16 00-0096 EA Recessed Remote Manual Release, In Line Kit .....	180.51	32.01
21 24 16 00-0097 EA Pulley Tee, Remote In Line Only .....	32.45	5.78
21 24 16 00-0098 EA Fusible Link Housing Kit With 1 - Bracket, 2 - 1/2" Electrical Metallic Tubing (EMT) Connector, 1 - "S" Hook, 8 - Cable Crimp Sleeve .....	36.03	6.35
21 24 16 00-0099 EA Fusible Link 165F To 360F .....	11.80	2.11
21 24 16 00-0100 EA Fusible Link 500F .....	17.93	2.11
21 24 16 00-0101 EA Standard Detector With 1 - 360F link, 2 - "S" Hooks, 2 - Crimp Sleeves .....	36.03	6.35
21 24 16 00-0102 EA Standard Detector Kit With 1 - Large Bracket, 2 - "S" Hooks, 2 - Cable Crimp Sleeve .....	27.54	6.35
21 24 16 00-0103 EA Quartzoid Link 400 F .....	194.22	34.40
21 24 16 00-0104 EA Quartzoid Link 500 F .....	194.22	34.40
21 24 16 00-0105 EA SPDT Micro Switch For Use With A Plus Control Box .....	69.62	12.27
21 24 16 00-0106 EA DPDT Micro Switch For Use With A Plus Control Box .....	121.10	21.43
21 24 16 00-0107 EA SPDT Micro Switch For Use With A Mechanical Control Box .....	71.97	12.69
21 24 16 00-0108 EA DPDT Micro Switch For Use With A Mechanical Control Box .....	124.74	22.13
21 24 16 00-0109 EA SPDT Micro Switch For Use With PRCB .....	91.39	16.21
21 24 16 00-0110 EA DPDT Micro Switch For Use With PRCB .....	131.84	23.26
21 24 16 00-0111 EA Pressure Switch, SPDT (Fire Dept. Tie In) .....	386.17	68.38
21 24 16 00-0112 EA Circuit Monitor 12 Or 24 Volt DC .....	173.66	30.73
21 24 16 00-0113 EA Circuit Monitor 120 Volt AC .....	173.66	30.73
21 24 16 00-0114 EA Electric Manual Pull Station .....	126.82	22.41
21 24 16 00-0115 EA 6", 24 Volt DC, Motor Bell .....	70.83	12.55
21 24 16 00-0116 EA 10", 115 Volt AC Motor Bell .....	100.54	17.77
21 24 16 00-0117 EA Fuse, 1.2 For ECH .....	8.15	1.41
21 24 16 00-0118 EA Indicator Lamp 12 Or 24 Volt DC .....	36.03	6.35
21 24 16 00-0119 EA Indicator Lamp 120 Volt AC .....	36.03	6.35
21 24 16 00-0120 EA B-10 Manual Station Dual Action, SPDT .....	132.53	23.40
21 24 16 00-0121 EA B-11 Manual Station Dual Action, DPDT .....	146.24	25.94
21 24 16 00-0122 EA Break Rods For B10/B11 Manual Pull Station .....	4.51	1.83
21 24 16 00-0123 EA Spare Key For B10/B11 Manual Stations .....	18.28	3.24
21 24 16 00-0124 EA MT-24-LSM-VAR Multitone Signal With 15/75cd Strobe, 24 Volt, Flush Grill .....	196.51	34.82
21 24 16 00-0125 EA Suppression Abort Station .....	207.93	36.79
21 24 16 00-0126 EA Suppression Abort Station With Surface Mount Back Box .....	242.21	42.86

**21 Fire Suppression****21 20 Fire-Extinguishing Systems****21 24 Dry-Chemical Fire-Extinguishing Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 24 16 00-0127	EA		Surface Mount Back Box .....	79.98	14.10
21 24 16 00-0128	EA		Single Hazard Control Unit, 120 Volt AC IP .....	1,485.21	262.65
21 24 16 00-0129	EA		Single Hazard Control Unit, 240 Volt AC IP .....	1,485.21	262.65
21 24 16 00-0130	EA		1 Lead Acid Battery; 24 Volt DC, 1.2 A.H. ....	123.39	21.85
21 24 16 00-0131	EA		Accessory Kit - End-of-line Resistors (10K Ohms, 1/2 W) .....	4.85	0.99
21 24 16 00-0132	EA		Spare Scorpio Circuit Board .....	1,073.84	
21 24 16 00-0133	EA		Extra Scorpio Key .....	18.28	
21 24 16 00-0134	EA		Extra Scorpio Manual.....	11.42	
21 24 16 00-0135	EA		Compression Seal Adapter 3/8" Pipe.....	31.07	5.50
21 24 16 00-0136	EA		Compression Seal Adapter 1/2" Tubing/ 1/4" Pipe .....	33.74	5.92
21 24 16 00-0137	EA		Compression Seal Adapter 5/8" Tubing/ 3/8" Pipe .....	40.60	7.19
21 24 16 00-0138	EA		Compression Seal Adapter 3/4" Tubing/ 1/2" Pipe .....	43.42	7.61
21 24 16 00-0139	EA		Quik Seal Adapter 3/8" NPT Female .....	33.74	5.92
21 24 16 00-0140	EA		Quik Seal Adapter 1/2" NPT Female .....	33.74	5.92
21 24 16 00-0141	EA		Quik Seal Adapter 3/4" NPT Female .....	57.72	10.29
21 24 16 00-0142	EA		Quik Seal Adapter 1" NPT Female .....	76.54	13.54
21 24 16 00-0143	EA		Quik Patch (Up To 1-1/8" Diameter) .....	33.74	5.92
21 24 16 00-0144	EA		1-1/4 Gallon Karbaloy Charge .....	75.10	
21 24 16 00-0145	EA		2-1/2 Gallon Karbaloy Charge .....	129.09	
21 24 16 00-0146	EA		4 Gallon Karbaloy Charge.....	195.11	
21 24 16 00-0147	EA		6 Gallon Karbaloy Charge.....	285.52	
21 24 16 00-0148	EA		Inlet Flushing Adapter.....	55.98	9.86
21 24 16 00-0149	EA		1/2" Flushing Adapter (Outlet).....	55.98	9.86
21 24 16 00-0150	EA		1/8" Flushing Adapter (Outlet).....	55.98	9.86
21 24 16 00-0151	EA		1/4" Flushing Adapter (Outlet).....	55.98	9.86
21 24 16 00-0152	EA		3/8" Flushing Adapter (Outlet).....	55.98	9.86
21 24 16 00-0153	EA		Recharge Adapter (Old Style Cylinder Valve Assembly Only) .....	77.68	
21 24 16 00-0154	EA		Instruction Label (In Case Of Fire) - MCB.....	6.35	
21 24 16 00-0155	EA		Caution Sign (Turn On Fan).....	7.46	
21 24 16 00-0156	EA		Inspection Label (Authorized installers only).....	5.47	
21 24 16 00-0157	EA		Label, Warning, A+ Control Box.....	4.14	
21 24 16 00-0158	EA		Wet Chemical System Kits, RG-1.25G Kit; #23315 .....	982.46	173.83
21 24 16 00-0159	EA		Wet Chemical System Kits, RG-2.5G Kit; #23316 .....	1,146.97	202.87
21 24 16 00-0160	EA		Wet Chemical System Kits, RG-4GS Kit; #23317 .....	1,428.04	252.64
21 24 16 00-0161	EA		Wet Chemical System Kits, RG-4GT Kit; #23318 .....	1,428.04	252.64
21 24 16 00-0162	EA		Wet Chemical System Kits, RG-6G Kit; #23319 .....	1,795.89	317.63
21 24 16 00-0163	EA		Wet Chemical System Kits, RG Mechanical Control HD (MCH) Kit; #23320 .....	851.09	150.56
21 24 16 00-0164	EA		Wet Chemical System Kits, RG Mechanical Control Box (MCB) Kit; #23321 .....	799.68	141.40
21 24 16 00-0165	EA		Wet Chemical System Kits, A Plus Control Box Kit; #23322 .....	646.60	114.33
21 24 16 00-0166	EA		Wet Chemical System Kits, Valve Rebuild Kit; #23210.....	1,119.55	198.08
21 24 16 00-0167	EA		Wet Chemical System Kits, BMCS-1 Package; #23208 .....	1,025.85	181.45

**21 30 Fire Pumps** <sup>(21)</sup>**21 31 Centrifugal Fire Pumps** <sup>(21 30)</sup>**21 31 13 Electric-Drive, Centrifugal Fire Pumps** <sup>(21 31)</sup>**21 31 13 00-0001 Electric-Drive Fire Pumps** <sup>(21 31 13)</sup>

Note: Includes fire pump, motor, motor starter, alarm panel, automatic transfer switch, and controller.

21 31 13 00-0002	EA		20 HP Electric Fire Pump.....	61,007.39	2,704.61
			<i>For Duplex Pumping System, Add</i>	<i>58,302.79</i>	
21 31 13 00-0003	EA		30 HP Electric Fire Pump.....	71,075.52	3,042.68
			<i>For Duplex Pumping System, Add</i>	<i>68,258.22</i>	
21 31 13 00-0004	EA		40 HP Electric Fire Pump.....	96,707.46	3,380.76
			<i>For Duplex Pumping System, Add</i>	<i>93,577.13</i>	
21 31 13 00-0005	EA		50 HP Electric Fire Pump.....	119,234.32	3,752.97
			<i>For Duplex Pumping System, Add</i>	<i>115,481.36</i>	
21 31 13 00-0006	EA		75 HP Electric Fire Pump.....	133,084.69	4,094.14
			<i>For Duplex Pumping System, Add</i>	<i>128,990.54</i>	

**21 31 16 Diesel-Drive, Centrifugal Fire Pumps** <sup>(21 31)</sup>**21 31 16 00-0001 Diesel-Drive Fire Pumps** <sup>(21 31 16)</sup>

Note: Pumps shall be stand alone units meeting NFPA-20 specs. Includes fire pump, motor, motor starter, alarm panel, and controller.

21 31 16 00-0002	EA		30 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	89,558.94	3,070.61
21 31 16 00-0003	EA		40 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	101,300.30	3,411.79
21 31 16 00-0004	EA		50 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	106,466.62	3,752.97
21 31 16 00-0005	EA		75 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	121,126.50	4,094.14
21 31 16 00-0006	EA		150 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	128,641.42	4,776.50
21 31 16 00-0007	EA		175 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	138,639.04	6,141.22
21 31 16 00-0008	EA		200 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	150,514.84	6,823.58
21 31 16 00-0009	EA		250 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	172,105.90	7,778.88
21 31 16 00-0010	EA		300 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	205,985.61	8,393.00
21 31 16 00-0011	EA		350 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	241,627.54	9,553.01
21 31 16 00-0012	EA		400 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	286,602.34	10,235.37
21 31 16 00-0013	EA		500 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	322,631.26	10,917.73



<b>Fire Suppression</b>	<b>21</b>	<b>21</b>
Fire Pumps	21 30	
Centrifugal Fire Pumps	21 31	

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MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST

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**END OF SECTION 21**

21	<b>21</b>	<b>Fire Suppression</b>
	21 30	Fire Pumps
	21 31	Centrifugal Fire Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

### 22 01 Operation and Maintenance of Plumbing<sup>(22)</sup>

#### 22 01 10 Operation and Maintenance of Plumbing Piping and Pumps<sup>(22 01)</sup>

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

##### 22 01 10 61 Plumbing Piping Repairs<sup>(22 01 10)</sup>

##### 22 01 10 61-0001 Pipe Repair Clamps<sup>(22 01 10 61)</sup>

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	49.19
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	51.51
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	56.68
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	60.62
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	65.92
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	84.30
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	108.57
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	127.05
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	145.90
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	76.82
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	81.32
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	90.05
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	98.97
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	109.33
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	141.42
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	173.99
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	199.73
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	227.10
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	108.40
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	113.29
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	125.22
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	137.37
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	155.18
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	190.65
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	227.36
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	274.76
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	336.99
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	346.46
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	370.99

#### 22 01 40 Operation and Maintenance of Plumbing Fixtures<sup>(22 01)</sup>

##### 22 01 40 81 Plumbing Fixtures Replacement<sup>(22 01 40)</sup>

##### 22 01 40 81-0001 Removal And Replacement Of Fixture And/or Trim<sup>(22 01 40 81)</sup>

Note: Includes removal of existing item(s) and installation of new item(s). See CSI section 22 42 00 00-0000 for faucet replacement installation and demolition prices.

22 01 40 81-0002	EA	Removal And Replacement Of 3/8" To 1/2" Compression Shut-off Valve With 15" Polybutylene Supply Tube	77.12
22 01 40 81-0003	EA	Removal And Replacement Of 3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory	26.64

**22 Plumbing**  
**22 01 Operation and Maintenance of Plumbing**  
**22 01 40 Operation and Maintenance of Plumbing Fixtures**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 01 40 81-0004 EA Removal And Replacement Of Chrome Supply Lines To Sink/Lavatory, Pair .....	36.86	
22 01 40 81-0005 EA Removal And Replacement Of Single Bowl Sink/Lavatory Drain Line .....	52.17	
22 01 40 81-0006 EA Removal And Replacement Of Double Bowl Sink/Lavatory Drain Line .....	80.51	
22 01 40 81-0007 EA Removal And Replacement Of Shower Head, Polished Chrome .....	48.10	
22 01 40 81-0008 EA Removal And Replacement Of Shower Arm .....	47.14	
22 01 40 81-0009 EA Removal And Replacement Of Shower Head .....	52.49	
22 01 40 81-0010 EA Removal And Replacement Of Shower Knob .....	44.46	
22 01 40 81-0011 EA Removal And Replacement Of Shower and Tub Control Trim .....	135.35	
Note: Excludes balancing valve.		
22 01 40 81-0012 EA Removal And Replacement Of Sink Basket Strainer .....	34.85	
22 01 40 81-0013 EA Removal And Replacement Of 1-1/2" Sink Drain Without Stopper .....	19.56	
22 01 40 81-0014 EA Removal And Replacement Of 4-1/2" Sink Drain Without Stopper .....	20.45	
22 01 40 81-0015 EA Removal And Replacement Of 1-1/2" Sink Drain With Stopper .....	19.56	
22 01 40 81-0016 EA Removal And Replacement Of 1" Sink Rubber Stopper .....	11.62	
22 01 40 81-0017 EA Removal And Replacement Of Sink Tailpiece Extension, 1-1/2" x 8" .....	34.37	
22 01 40 81-0018 EA Removal And Replacement Of Sink Trap, Adjustable, 1-1/2" .....	54.72	
22 01 40 81-0019 EA Removal And Replacement Of Lavatory Pop-Up Rod .....	33.49	
22 01 40 81-0020 EA Removal And Replacement Of Lavatory Pop-up Drain Stopper .....	40.08	
22 01 40 81-0021 EA Removal And Replacement Of Faucet Handle .....	44.47	
22 01 40 81-0022 EA Removal And Replacement Of Faucet O-Ring .....	34.78	
22 01 40 81-0023 EA Removal And Replacement Of 1-1/2" Faucet Hole Cover .....	24.33	
22 01 40 81-0024 EA Removal And Replacement Of Toilet Ballcock .....	48.08	
22 01 40 81-0025 EA Removal And Replacement Of Toilet Bowl Ring, Flat Wax .....	9.26	
Note: Excludes removal of toilet.		
22 01 40 81-0026 EA Removal And Replacement Of Toilet Tank .....	183.97	
22 01 40 81-0027 EA Removal And Replacement Of 10" Toilet Bowl .....	239.97	
22 01 40 81-0028 EA Removal And Replacement Of 10", Low-Flush Watersaver, Toilet Bowl .....	254.91	
22 01 40 81-0029 EA Removal And Replacement Of 12" Toilet Bowl .....	269.33	
22 01 40 81-0030 EA Removal And Replacement Of 18", Elongated, Toilet Bowl .....	244.99	
22 01 40 81-0031 EA Removal And Replacement Of Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers .....	31.25	
22 01 40 81-0032 EA Removal And Replacement Of Toilet Flapper With Chain .....	21.58	
22 01 40 81-0033 EA Removal And Replacement Of Toilet Flush Tank Lever .....	23.82	
22 01 40 81-0034 EA Removal And Replacement Of Elongated Toilet Seat With Lid .....	114.08	
22 01 40 81-0035 EA Removal And Replacement Of Elongated Toilet Seat Without Lid .....	108.56	
22 01 40 81-0036 EA Removal And Replacement Of Handicap Toilet Seat, Complete With Rails .....	167.90	
22 01 40 81-0037 EA Removal And Replacement Of Diverter Tub Spout .....	64.68	
22 01 40 81-0038 EA Removal And Replacement Of Tub Spout .....	48.34	
22 01 40 81-0039 EA Removal And Replacement Of 2" Tub Stopper .....	13.76	
22 01 40 81-0040 EA Removal And Replacement Of Tub Waste/Overflow .....	91.99	
22 01 40 81-0041 EA Removal And Replacement Of Tub Stem Bonnet Assembly .....	49.51	
22 01 40 81-0042 EA Removal And Replacement Of Faucet Bonnet .....	53.58	
22 01 40 81-0043 EA Removal And Replacement Of Faucet Diverter Stem .....	34.01	
22 01 40 81-0044 EA Removal And Replacement Of Faucet Diverter Stem And Bonnet .....	44.62	
22 01 40 81-0045 EA Removal And Replacement Of Faucet Spout .....	49.54	
22 01 40 81-0046 EA Removal And Replacement Of Faucet Stem .....	36.97	
22 01 40 81-0047 EA Removal And Replacement Of Plastic, Chrome Plated Drinking Fountain Bubbler Valve With Flexible Bubbler Guard .....	216.05	
22 01 40 81-0048 EA Removal And Replacement Of Brass, Chrome Plated Drinking Fountain Bubbler Valve .....	266.10	
22 01 40 81-0049 EA Removal And Replacement Of Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve .....	170.04	

**22 05 Common Work Results for Plumbing** <sup>(22)</sup>

**22 05 13 Common Motor Requirements for Plumbing Equipment** <sup>(22 05)</sup>

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

**22 05 16 Expansion Fittings and Loops for Plumbing Piping** <sup>(22 05)</sup>

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

**22 05 17 Sleeves and Sleeve Seals for Plumbing Piping** <sup>(22 05)</sup>

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

**22 05 19 Meters and Gages for Plumbing Piping** <sup>(22 05)</sup>

See CSI section 23 05 19 00-0000 for gages, 33 19 00 00-0000 for water utility service metering.

**22 05 23 General-Duty Valves for Plumbing Piping** <sup>(22 05)</sup>

See CSI section 23 05 23 00-0000 for additional valves.

22 05 23 00-0001 Gate Valves <sup>(22 05 23)</sup>

22 05 23 00-0002 Class 125 Brazed Or Soldered Bronze Gate Valves <sup>(22 05 23 00-0001)</sup>

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)

22 05 23 00-0003 EA 1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	97.78	15.31
For 150 LB Rating, Add	5.32	
For 200 LB Rating, Add	7.98	
For Work In Restricted Working Space, Add	13.38	
22 05 23 00-0004 EA 3/8" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	100.12	15.31
For 150 LB Rating, Add	5.32	
For 200 LB Rating, Add	7.98	
For Work In Restricted Working Space, Add	14.08	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0005	EA		1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	102.90	15.31
			For 150 LB Rating, Add	5.35	
			For 200 LB Rating, Add	8.03	
			For Work In Restricted Working Space, Add	14.82	
22 05 23 00-0006	EA		3/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	124.07	16.85
			For 150 LB Rating, Add	5.75	
			For 200 LB Rating, Add	8.63	
			For Work In Restricted Working Space, Add	19.97	
22 05 23 00-0007	EA		1" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	151.03	19.14
			For 150 LB Rating, Add	7.04	
			For 200 LB Rating, Add	10.56	
			For Work In Restricted Working Space, Add	24.18	
22 05 23 00-0008	EA		1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	217.09	20.37
			For 150 LB Rating, Add	11.50	
			For 200 LB Rating, Add	17.25	
			For Work In Restricted Working Space, Add	30.63	
22 05 23 00-0009	EA		1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	242.78	23.58
			For 150 LB Rating, Add	12.50	
			For 200 LB Rating, Add	18.75	
			For Work In Restricted Working Space, Add	35.34	
22 05 23 00-0010	EA		2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	290.64	27.87
			For 150 LB Rating, Add	15.14	
			For 200 LB Rating, Add	22.71	
			For Work In Restricted Working Space, Add	41.76	
22 05 23 00-0011	EA		2-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	627.21	37.64
			For 150 LB Rating, Add	43.92	
			For 200 LB Rating, Add	65.89	
			For Work In Restricted Working Space, Add	56.39	
			For Chain Operated Type, Add	197.66	
22 05 23 00-0012	EA		3" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve .....	735.20	43.70
			For 150 LB Rating, Add	51.83	
			For 200 LB Rating, Add	77.75	
			For Work In Restricted Working Space, Add	65.07	
22 05 23 00-0013	<b>Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves</b> <small>(22 05 23 00-0001)</small>				
	Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)				
22 05 23 00-0014	EA		1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....	115.50	15.31
			For 150 LB Rating, Add	7.09	
			For 200 LB Rating, Add	10.64	
			For Work In Restricted Working Space, Add	13.38	
22 05 23 00-0015	EA		3/8" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....	117.69	15.31
			For 150 LB Rating, Add	7.08	
			For 200 LB Rating, Add	10.61	
			For Work In Restricted Working Space, Add	14.08	
22 05 23 00-0016	EA		1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....	135.65	15.31
			For 150 LB Rating, Add	8.63	
			For 200 LB Rating, Add	12.94	
			For Work In Restricted Working Space, Add	14.82	
22 05 23 00-0017	EA		3/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....	156.82	16.85
			For 150 LB Rating, Add	9.03	
			For 200 LB Rating, Add	13.54	
			For Work In Restricted Working Space, Add	19.97	
22 05 23 00-0018	EA		1" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....	188.40	19.14
			For 150 LB Rating, Add	10.78	
			For 200 LB Rating, Add	16.17	
			For Work In Restricted Working Space, Add	24.18	
22 05 23 00-0019	EA		1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....	268.20	20.37
			For 150 LB Rating, Add	16.61	
			For 200 LB Rating, Add	24.92	
			For Work In Restricted Working Space, Add	30.63	
22 05 23 00-0020	EA		1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....	307.07	23.58
			For 150 LB Rating, Add	18.93	
			For 200 LB Rating, Add	28.39	
			For Work In Restricted Working Space, Add	35.34	
22 05 23 00-0021	EA		2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve .....	389.97	27.87
			For 150 LB Rating, Add	25.08	
			For 200 LB Rating, Add	37.61	
			For Work In Restricted Working Space, Add	41.76	
22 05 23 00-0022	<b>200 PSI, Non-Rising Stem, Crimped Bronze Gate Valves</b> <small>(22 05 23 00-0001)</small>				
	Note: 200 psi cold working pressure.				
22 05 23 00-0023	EA		1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....	136.12	15.31
			For Work In Restricted Working Space, Add	10.34	
22 05 23 00-0024	EA		3/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....	153.38	16.85
			For Work In Restricted Working Space, Add	11.77	
22 05 23 00-0025	EA		1" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....	200.61	19.14
			For Work In Restricted Working Space, Add	14.07	
22 05 23 00-0026	EA		1-1/4" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....	270.99	20.37
			For Work In Restricted Working Space, Add	15.50	
22 05 23 00-0027	EA		1-1/2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....	313.64	23.58
			For Work In Restricted Working Space, Add	17.23	
22 05 23 00-0028	EA		2" Diameter, 200 PSI, Non-Rising Stem, Crimped Bronze Gate Valve .....	429.60	27.87
			For Work In Restricted Working Space, Add	20.67	

**22 Plumbing****22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 05 23 00-0029 Ball Valves (22 05 23)</b>		
<b>22 05 23 00-0030 Crimped Bronze, Ball Valves (22 05 23 00-0029)</b>		
<b>22 05 23 00-0031 Crimped Bronze, 250 PSI, Ball Valves (22 05 23 00-0030)</b>		
Note: Nibco®		
22 05 23 00-0032 EA 1/2" Crimped Bronze, 250 PSI, Ball Valve .....95.86		15.31
For Work In Restricted Working Space, Add	10.34	
22 05 23 00-0033 EA 3/4" Crimped Bronze, 250 PSI, Ball Valve .....122.91		16.85
For Work In Restricted Working Space, Add	11.77	
22 05 23 00-0034 EA 1" Crimped Bronze, 250 PSI, Ball Valve .....157.02		19.14
For Work In Restricted Working Space, Add	14.07	
22 05 23 00-0035 EA 1-1/4" Crimped Bronze, 250 PSI, Ball Valve .....248.66		20.37
For Work In Restricted Working Space, Add	15.50	
22 05 23 00-0036 EA 1-1/2" Crimped Bronze, 250 PSI, Ball Valve .....326.39		23.58
For Work In Restricted Working Space, Add	17.23	
22 05 23 00-0037 EA 2" Crimped Bronze, 250 PSI, Ball Valve .....488.23		27.87
For Work In Restricted Working Space, Add	20.67	
<b>22 05 23 00-0038 Crimped Bronze, 200 PSI, Full Port Ball Valves (22 05 23 00-0030)</b>		
22 05 23 00-0039 EA 1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....60.94		15.31
For Work In Restricted Working Space, Add	10.34	
22 05 23 00-0040 EA 3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....76.46		16.85
For Work In Restricted Working Space, Add	11.77	
22 05 23 00-0041 EA 1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....92.71		19.14
For Work In Restricted Working Space, Add	14.07	
22 05 23 00-0042 EA 1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....126.14		20.37
For Work In Restricted Working Space, Add	15.50	
22 05 23 00-0043 EA 1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....160.51		23.58
For Work In Restricted Working Space, Add	17.23	
22 05 23 00-0044 EA 2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve .....233.57		27.87
For Work In Restricted Working Space, Add	20.67	
<b>22 05 23 00-0045 Crimped Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)</b>		
22 05 23 00-0046 EA 1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....68.82		15.31
For Work In Restricted Working Space, Add	10.34	
22 05 23 00-0047 EA 3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....82.19		16.85
For Work In Restricted Working Space, Add	11.77	
22 05 23 00-0048 EA 1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....101.87		19.14
For Work In Restricted Working Space, Add	14.07	
22 05 23 00-0049 EA 1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....154.76		20.37
For Work In Restricted Working Space, Add	15.50	
22 05 23 00-0050 EA 1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....222.09		23.58
For Work In Restricted Working Space, Add	17.23	
22 05 23 00-0051 EA 2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve .....305.15		27.87
For Work In Restricted Working Space, Add	20.67	
<b>22 05 23 00-0052 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (22 05 23 00-0030)</b>		
22 05 23 00-0053 EA 1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve .....66.67		15.31
For Work In Restricted Working Space, Add	10.34	
22 05 23 00-0054 EA 3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve .....80.19		16.85
For Work In Restricted Working Space, Add	11.77	
22 05 23 00-0055 EA 1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve .....97.29		19.14
For Work In Restricted Working Space, Add	14.07	
<b>22 05 23 00-0056 Check Valves (22 05 23)</b>		
<b>22 05 23 00-0057 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves (22 05 23 00-0056)</b>		
Note: Nibco®		
22 05 23 00-0058 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....176.35		15.31
For Work In Restricted Working Space, Add	10.34	
22 05 23 00-0059 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....223.50		16.85
For Work In Restricted Working Space, Add	11.77	
22 05 23 00-0060 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....307.38		19.14
For Work In Restricted Working Space, Add	14.07	
22 05 23 00-0061 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....407.47		20.37
For Work In Restricted Working Space, Add	15.50	
22 05 23 00-0062 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....485.23		23.58
For Work In Restricted Working Space, Add	17.23	
22 05 23 00-0063 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve .....691.55		27.87
For Work In Restricted Working Space, Add	20.67	
<b>22 05 23 00-0064 Crimped Bronze, 250 PSI, In-Line, Check Valves (22 05 23 00-0056)</b>		
22 05 23 00-0065 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve .....54.90		15.31
For Work In Restricted Working Space, Add	10.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0066 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	65.40 11.77	16.85
22 05 23 00-0067 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	77.04 14.07	19.14
22 05 23 00-0068 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	95.28 15.50	20.37
22 05 23 00-0069 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	119.32 17.23	23.58
22 05 23 00-0070 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	181.55 20.67	27.87
<b>22 05 23 00-0071 Butterfly Valves (22 05 23)</b>		
<b>22 05 23 00-0072 Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve (22 05 23 00-0071)</b>		
22 05 23 00-0073 EA 2-1/2" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve ..... <i>For Work In Restricted Working Space, Add</i>	1,279.35 24.12	40.88
22 05 23 00-0074 EA 3" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve ..... <i>For Work In Restricted Working Space, Add</i>	1,386.90 28.71	47.47
22 05 23 00-0075 EA 4" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve ..... <i>For Work In Restricted Working Space, Add</i>	1,735.18 37.90	53.60
<b>22 05 23 00-0076 Earthquake-Sensitive Gas Shut-Off Valve (22 05 23)</b>		
<b>22 05 23 00-0077 0.5 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)</b>		
22 05 23 00-0078 EA 3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve .....	180.93	16.85
22 05 23 00-0079 EA 1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve .....	206.50	19.14
<b>22 05 23 00-0080 7 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)</b>		
22 05 23 00-0081 EA 1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve .....	243.73	20.37
22 05 23 00-0082 EA 1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve .....	322.38	23.58
<b>22 05 23 00-0083 60 PSI Threaded Earthquake Gas Shutoff Valves (22 05 23 00-0076)</b>		
22 05 23 00-0084 EA 3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	218.70	16.85
22 05 23 00-0085 EA 1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	232.73	19.14
22 05 23 00-0086 EA 1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	264.72	20.37
22 05 23 00-0087 EA 1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	353.86	23.58
22 05 23 00-0088 EA 2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	768.73	27.87
22 05 23 00-0089 EA 2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	921.80	37.51
22 05 23 00-0090 EA 3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	1,187.40	43.70
22 05 23 00-0091 EA 4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve .....	1,374.62	49.34
<b>22 05 23 00-0092 60 PSI Flanged Earthquake Gas Shutoff Valves (22 05 23 00-0076)</b>		
22 05 23 00-0093 EA 2" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	1,094.58	204.13
22 05 23 00-0094 EA 3" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	1,343.91	239.67
22 05 23 00-0095 EA 4" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	1,919.92	401.80
22 05 23 00-0096 EA 6" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	3,029.75	449.69
22 05 23 00-0097 EA 8" Flanged, 60 PSI Earthquake Gas Shutoff Valve .....	7,953.28	574.61
<b>22 05 23 00-0098 Emergency Shut-Off Valve With Fusible Link (22 05 23)</b>		
<b>22 05 23 00-0099 Threaded, Fusible Brass Gate Valves (Morrison Bros. 939) (22 05 23 00-0098)</b>		
Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F.		
22 05 23 00-0100 EA 1/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	94.52 13.38	24.66
22 05 23 00-0101 EA 3/8" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	96.92 14.10	26.03
22 05 23 00-0102 EA 1/2" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	152.14 14.82	24.66
22 05 23 00-0103 EA 3/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	294.71 19.97	33.23
22 05 23 00-0104 EA 1" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)..... <i>For Work In Restricted Working Space, Add</i>	727.39 24.18	40.27
<b>22 05 23 00-0105 Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) (22 05 23 00-0098)</b>		
Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0106 EA 1-1/2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) .....	564.54	23.58
22 05 23 00-0107 EA 2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) .....	611.16	27.87
22 05 23 00-0108 EA 3" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) .....	1,023.51	43.70

**22 Plumbing****22 05 Common Work Results for Plumbing****22 05 23 General-Duty Valves for Plumbing Piping**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
22 05 23 00-0109		Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) <small>(22 05 23 00-0098)</small> Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0110	EA	2" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	736.68	204.13
22 05 23 00-0111	EA	3" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	1,162.82	239.67
22 05 23 00-0112	EA	4" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	2,601.37	401.80
<b>22 05 29</b>		<b>Hangers and Supports for Plumbing Piping and Equipment</b> <small>(22 05)</small>		
		See CSI section 23 05 29 00-0000 for hangers and supports.		
<b>22 05 33</b>		<b>Heat Tracing for Plumbing Piping</b> <small>(22 05)</small>		
		See CSI section 23 83 13 00-0000 for heat tracing cables.		
<b>22 05 48</b>		<b>Vibration and Seismic Controls for Plumbing Piping and Equipment</b> <small>(22 05)</small>		
<b>22 05 48 13</b>		<b>Vibration Controls for Plumbing Piping and Equipment</b> <small>(22 05 48)</small>		
		See CSI section 23 05 48 13-0000 for vibration and seismic control.		
<b>22 05 53</b>		<b>Identification for Plumbing Piping and Equipment</b> <small>(22 05)</small>		
		See CSI section 23 05 53 00-0000 for identification.		
<b>22 05 76</b>		<b>Facility Drainage Piping Cleanouts</b> <small>(22 05)</small>		
22 05 76 00-0001		Cast Iron Cleanout With Plug And Cover <small>(22 05 76)</small>		
		Note: For floor installation.		
22 05 76 00-0002		Cast Iron Cleanout With Plug And Round Or Square Cover <small>(22 05 76 00-0001)</small>		
22 05 76 00-0003	EA	2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	714.48	81.46
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0004	EA	3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	778.68	102.14
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0005	EA	4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	970.43	123.42
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0006	EA	5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,374.38	138.13
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007	EA	6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,682.18	149.61
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0008		Cast Iron Heavy Duty Cleanout With Plug And Round Cover <small>(22 05 76 00-0001)</small>		
22 05 76 00-0009	EA	2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	817.60	81.46
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010	EA	3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	883.43	102.14
		For Vandal Proof, Add	19.50	
		For Galvanized Ferrule, Add	45.00	
		For Carpet Marker, Add	16.00	
		For Carpet Flange, Add	58.50	
		For Wide Flange, Add	97.00	
		For Satin Bronze Top, Deduct	-24.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,075.18	123.42
<i>For Vandal Proof, Add</i>	19.50	
<i>For Galvanized Ferrule, Add</i>	45.00	
<i>For Carpet Marker, Add</i>	16.00	
<i>For Carpet Flange, Add</i>	58.50	
<i>For Wide Flange, Add</i>	97.00	
<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,479.13	138.13
<i>For Vandal Proof, Add</i>	19.50	
<i>For Galvanized Ferrule, Add</i>	45.00	
<i>For Carpet Marker, Add</i>	16.00	
<i>For Carpet Flange, Add</i>	58.50	
<i>For Wide Flange, Add</i>	97.00	
<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,786.93	149.61
<i>For Vandal Proof, Add</i>	19.50	
<i>For Galvanized Ferrule, Add</i>	45.00	
<i>For Carpet Marker, Add</i>	16.00	
<i>For Carpet Flange, Add</i>	58.50	
<i>For Wide Flange, Add</i>	97.00	
<i>For Satin Bronze Top, Deduct</i>	-24.00	
<b>22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)</b>		
Note: Cover and screw only.		
<b>22 05 76 00-0015 Round Access Cover, Bronze Polished Top (22 05 76 00-0014)</b>		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	113.24	25.57
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	123.46	30.63
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed.....	155.66	34.46
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	254.97	38.28
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	377.21	42.11
<i>For Stainless Steel, Add</i>	9.00	
<i>For Vandal Proof Screws, Add</i>	19.50	
<b>22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)</b>		
Note: Cover and screw only.		
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover.....	549.73	25.57
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover.....	787.78	26.80
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover.....	841.63	28.33
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover.....	941.63	32.16
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
<b>22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)</b>		
Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel.....	559.48	25.57
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel.....	802.14	26.80
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel.....	856.99	28.33
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel.....	958.79	32.16
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
<b>22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014)</b>		
Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated.....	543.01	25.57
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated.....	748.00	26.80
<i>For Vandal Proof Screws, Add</i>	19.50	
<i>For Nickel Bronze, Add</i>	22.50	

**22 Plumbing****22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	1,057.07 19.50 22.50	28.33
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	1,278.92 19.50 22.50	32.16
<b>22 05 76 00-0036 Cast Iron Cleanout Tee</b> (22 05 76)		
<b>22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover</b> (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	529.04 18.00 45.00	81.46
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	608.39 18.00 45.00	101.99
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	790.13 18.00 45.00	123.42
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,824.38 18.00 45.00	149.61
<b>22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover</b> (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	895.18 18.00 45.00	81.46
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	974.53 18.00 45.00	101.99
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,131.97 18.00 45.00	123.42
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,318.93 18.00 45.00	149.61
<b>22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug</b> (22 05 76 00-0036)		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug.....	433.47	66.62
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug.....	483.90	72.74
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug.....	644.39	95.71
22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug.....	955.57	113.32
22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug.....	1,604.36	133.99
<b>22 05 76 00-0053 Removable Cleanout Plug</b> (22 05 76)		
<b>22 05 76 00-0054 Threaded Bronze Plugs</b> (22 05 76 00-0053)		
22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug..... <i>For Plug Tapped For Center Screw, Add</i>	89.89 9.50	19.14
22 05 76 00-0056 EA 2-1/2" Threaded Bronze Plug..... <i>For Plug Tapped For Center Screw, Add</i>	107.01 9.50	20.83
22 05 76 00-0057 EA 3" Threaded Bronze Plug..... <i>For Plug Tapped For Center Screw, Add</i>	179.38 9.50	22.97
22 05 76 00-0058 EA 3-1/2" Threaded Bronze Plug..... <i>For Plug Tapped For Center Screw, Add</i>	201.09 9.50	26.80
22 05 76 00-0059 EA 4" Threaded Bronze Plug..... <i>For Plug Tapped For Center Screw, Add</i>	227.47 9.50	30.63
22 05 76 00-0060 EA 5" Threaded Bronze Plug..... <i>For Plug Tapped For Center Screw, Add</i>	317.03 9.50	34.46
22 05 76 00-0061 EA 6" Threaded Bronze Plug..... <i>For Plug Tapped For Center Screw, Add</i>	462.72 9.50	38.28
22 05 76 00-0062 EA 8" Threaded Bronze Plug..... <i>For Plug Tapped For Center Screw, Add</i>	774.40 9.50	42.11
22 05 76 00-0063 EA 10" Threaded Bronze Plug..... <i>For Plug Tapped For Center Screw, Add</i>	1,109.58 9.50	45.94
<b>22 05 76 00-0064 Threaded Brass Plugs</b> (22 05 76 00-0053)		
22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head..... <i>For Plug Tapped For Center Screw, Add</i>	41.74 9.50	19.14
22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head..... <i>For Plug Tapped For Center Screw, Add</i>	42.35 9.50	19.14
22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head..... <i>For Plug Tapped For Center Screw, Add</i>	46.10 9.50	20.83
22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head..... <i>For Plug Tapped For Center Screw, Add</i>	52.01 9.50	22.97
22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head..... <i>For Plug Tapped For Center Screw, Add</i>	61.30 9.50	26.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head ..... <i>For Plug Tapped For Center Screw, Add</i>	71.69 9.50	30.63
22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head ..... <i>For Plug Tapped For Center Screw, Add</i>	76.86 9.50	32.25
22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head ..... <i>For Plug Tapped For Center Screw, Add</i>	82.41 9.50	34.46
22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head ..... <i>For Plug Tapped For Center Screw, Add</i>	104.70 9.50	38.28
22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head ..... <i>For Plug Tapped For Center Screw, Add</i>	41.27 9.50	19.14
22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head ..... <i>For Plug Tapped For Center Screw, Add</i>	41.94 9.50	19.14
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head ..... <i>For Plug Tapped For Center Screw, Add</i>	47.41 9.50	20.83
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head ..... <i>For Plug Tapped For Center Screw, Add</i>	52.20 9.50	22.97
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head ..... <i>For Plug Tapped For Center Screw, Add</i>	60.74 9.50	26.80
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head ..... <i>For Plug Tapped For Center Screw, Add</i>	70.80 9.50	30.63
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head ..... <i>For Plug Tapped For Center Screw, Add</i>	81.93 9.50	34.46
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head ..... <i>For Plug Tapped For Center Screw, Add</i>	96.85 9.50	38.28

**22 07 Plumbing Insulation** <sup>(22)</sup>

**22 07 16 Plumbing Equipment Insulation** <sup>(22 07)</sup>

22 07 16 00-0001	Lavatory Insulation <sup>(22 07 16)</sup>		
22 07 16 00-0002	EA Neoprene Insulation Kit For Under Lavatories.....	344.67	32.76

**22 07 19 Plumbing Piping Insulation** <sup>(22 07)</sup>

22 07 19 00-0001	Fiberglass (Glass Fiber) Pipe Insulation <sup>(22 07 19)</sup>		
	<p>Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves &gt;3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.</p>		
22 07 19 00-0002	1/2" Thick Fiberglass Pipe Insulation <sup>(22 07 19 00-0001)</sup>		
22 07 19 00-0003	LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.49 0.19 2.60	3.21
22 07 19 00-0004	LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.68 0.21 2.60	3.21
22 07 19 00-0005	LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.35 0.23 2.76	3.35
22 07 19 00-0006	LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.74 0.25 2.81	3.50
22 07 19 00-0007	LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.05 0.26 2.86	3.50
22 07 19 00-0008	LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.76 0.28 3.02	3.64
22 07 19 00-0009	LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.33 0.33 3.07	3.79
22 07 19 00-0010	LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.04 0.36 3.17	3.93
22 07 19 00-0011	LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.88 0.47 3.43	4.22
22 07 19 00-0012	LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.72 0.56 4.00	4.95
22 07 19 00-0013	1" Thick Fiberglass Pipe Insulation <sup>(22 07 19 00-0001)</sup>		
22 07 19 00-0014	LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.13 0.23 3.59	4.36
22 07 19 00-0015	LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.45 0.26 3.59	4.36

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0016	LF	1"	1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.66 0.26 3.64	4.36
22 07 19 00-0017	LF	1-1/4"	1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.16 0.30 3.69	4.51
22 07 19 00-0018	LF	1-1/2"	1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.55 0.32 3.74	4.51
22 07 19 00-0019	LF	2"	2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.18 0.35 3.85	4.66
22 07 19 00-0020	LF	2-1/2"	2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.04 0.39 4.00	4.95
22 07 19 00-0021	LF	3"	3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.86 0.44 4.11	5.10
22 07 19 00-0022	LF	4"	4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.11 0.56 4.42	5.39
22 07 19 00-0023	LF	6"	6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.20 0.69 4.99	6.26
22 07 19 00-0024	LF	8"	8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.46 0.99 5.72	6.99
22 07 19 00-0025	LF	10"	10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.50 1.15 6.76	8.30
22 07 19 00-0026	LF	12"	12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.46 1.31 7.80	9.46
22 07 19 00-0027	LF	14"	14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	41.35 1.52 8.07	10.34
<b>22 07 19 00-0028</b>			<b>1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		
22 07 19 00-0029	LF	1/2"	1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.86 0.46 3.74	4.49
22 07 19 00-0030	LF	3/4"	3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.06 0.48 3.74	4.49
22 07 19 00-0031	LF	1"	1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.02 0.51 3.96	4.77
22 07 19 00-0032	LF	1-1/4"	1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.63 0.54 4.04	4.87
22 07 19 00-0033	LF	1-1/2"	1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.16 0.57 4.11	4.95
22 07 19 00-0034	LF	2"	2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.42 0.63 4.34	5.21
22 07 19 00-0035	LF	2-1/2"	2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.26 0.69 4.41	5.30
22 07 19 00-0036	LF	3"	3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.95 0.71 4.56	5.49
22 07 19 00-0037	LF	4"	4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.18 0.81 4.93	5.94
22 07 19 00-0038	LF	6"	6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.02 0.93 5.76	6.93
22 07 19 00-0039	LF	8"	8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.30 1.16 6.08	7.31
22 07 19 00-0040	LF	10"	10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.18 1.46 7.27	8.75
22 07 19 00-0041	LF	12"	12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.41 1.59 8.47	10.20
22 07 19 00-0042	LF	14"	14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.51 1.84 9.28	11.17
<b>22 07 19 00-0043</b>			<b>2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0044 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.57	4.95
<i>For Single Layer Of Felt Finish, Add</i>	0.72	
<i>For Work In Restricted Working Space, Add</i>	4.11	
22 07 19 00-0045 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.80	4.95
<i>For Single Layer Of Felt Finish, Add</i>	0.75	
<i>For Work In Restricted Working Space, Add</i>	4.11	
22 07 19 00-0046 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.48	5.10
<i>For Single Layer Of Felt Finish, Add</i>	0.80	
<i>For Work In Restricted Working Space, Add</i>	4.16	
22 07 19 00-0047 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.07	5.10
<i>For Single Layer Of Felt Finish, Add</i>	0.84	
<i>For Work In Restricted Working Space, Add</i>	4.21	
22 07 19 00-0048 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.72	5.24
<i>For Single Layer Of Felt Finish, Add</i>	0.89	
<i>For Work In Restricted Working Space, Add</i>	4.27	
22 07 19 00-0049 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.56	5.39
<i>For Single Layer Of Felt Finish, Add</i>	0.93	
<i>For Work In Restricted Working Space, Add</i>	4.42	
22 07 19 00-0050 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.74	5.53
<i>For Single Layer Of Felt Finish, Add</i>	1.00	
<i>For Work In Restricted Working Space, Add</i>	4.58	
22 07 19 00-0051 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.01	5.82
<i>For Single Layer Of Felt Finish, Add</i>	1.07	
<i>For Work In Restricted Working Space, Add</i>	4.73	
22 07 19 00-0052 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.35	6.11
<i>For Single Layer Of Felt Finish, Add</i>	1.23	
<i>For Work In Restricted Working Space, Add</i>	4.99	
22 07 19 00-0053 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.57	7.18
<i>For Single Layer Of Felt Finish, Add</i>	1.43	
<i>For Work In Restricted Working Space, Add</i>	5.99	
22 07 19 00-0054 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.89	7.58
<i>For Single Layer Of Felt Finish, Add</i>	1.77	
<i>For Work In Restricted Working Space, Add</i>	6.32	
22 07 19 00-0055 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.35	9.07
<i>For Single Layer Of Felt Finish, Add</i>	2.11	
<i>For Work In Restricted Working Space, Add</i>	7.57	
22 07 19 00-0056 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	52.30	10.88
<i>For Single Layer Of Felt Finish, Add</i>	2.32	
<i>For Work In Restricted Working Space, Add</i>	9.06	
22 07 19 00-0057 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	67.14	11.86
<i>For Single Layer Of Felt Finish, Add</i>	2.63	
<i>For Work In Restricted Working Space, Add</i>	12.64	
22 07 19 00-0058 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.60	13.91
<i>For Single Layer Of Felt Finish, Add</i>	2.99	
<i>For Work In Restricted Working Space, Add</i>	12.64	
22 07 19 00-0059 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	78.05	14.60
<i>For Single Layer Of Felt Finish, Add</i>	3.55	
<i>For Work In Restricted Working Space, Add</i>	13.27	
22 07 19 00-0060 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.52	16.69
<i>For Single Layer Of Felt Finish, Add</i>	3.98	
<i>For Work In Restricted Working Space, Add</i>	15.17	
22 07 19 00-0061 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	103.16	20.17
<i>For Single Layer Of Felt Finish, Add</i>	4.42	
<i>For Work In Restricted Working Space, Add</i>	18.33	
<b>22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation</b> <small>(22 07 19 00-0001)</small>		
22 07 19 00-0063 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.37	5.82
<i>For Single Layer Of Felt Finish, Add</i>	1.00	
<i>For Work In Restricted Working Space, Add</i>	4.74	
22 07 19 00-0064 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.70	5.82
<i>For Single Layer Of Felt Finish, Add</i>	1.04	
<i>For Work In Restricted Working Space, Add</i>	4.74	
22 07 19 00-0065 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.67	5.82
<i>For Single Layer Of Felt Finish, Add</i>	1.12	
<i>For Work In Restricted Working Space, Add</i>	4.82	
22 07 19 00-0066 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.38	5.97
<i>For Single Layer Of Felt Finish, Add</i>	1.18	
<i>For Work In Restricted Working Space, Add</i>	4.85	
22 07 19 00-0067 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.12	5.97
<i>For Single Layer Of Felt Finish, Add</i>	1.24	
<i>For Work In Restricted Working Space, Add</i>	4.89	
22 07 19 00-0068 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.28	6.26
<i>For Single Layer Of Felt Finish, Add</i>	1.29	
<i>For Work In Restricted Working Space, Add</i>	5.09	
22 07 19 00-0069 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.89	6.40
<i>For Single Layer Of Felt Finish, Add</i>	1.40	
<i>For Work In Restricted Working Space, Add</i>	5.27	
22 07 19 00-0070 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.35	6.70
<i>For Single Layer Of Felt Finish, Add</i>	1.49	
<i>For Work In Restricted Working Space, Add</i>	5.45	
22 07 19 00-0071 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.67	6.99
<i>For Single Layer Of Felt Finish, Add</i>	1.73	
<i>For Work In Restricted Working Space, Add</i>	5.75	

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0072 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.88	7.43
For Single Layer Of Felt Finish, Add	2.01	
For Work In Restricted Working Space, Add	6.53	
22 07 19 00-0073 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	54.00	8.88
For Single Layer Of Felt Finish, Add	3.12	
For Work In Restricted Working Space, Add	7.28	
22 07 19 00-0074 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	64.36	10.20
For Single Layer Of Felt Finish, Add	3.82	
For Work In Restricted Working Space, Add	8.39	
22 07 19 00-0075 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	73.52	12.67
For Single Layer Of Felt Finish, Add	4.07	
For Work In Restricted Working Space, Add	10.43	
22 07 19 00-0076 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	82.97	13.98
For Single Layer Of Felt Finish, Add	4.72	
For Work In Restricted Working Space, Add	11.39	
22 07 19 00-0077 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	98.11	17.77
For Single Layer Of Felt Finish, Add	5.21	
For Work In Restricted Working Space, Add	14.56	
22 07 19 00-0078 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	105.36	18.64
For Single Layer Of Felt Finish, Add	5.71	
For Work In Restricted Working Space, Add	15.29	
22 07 19 00-0079 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	119.63	21.26
For Single Layer Of Felt Finish, Add	6.44	
For Work In Restricted Working Space, Add	17.48	
22 07 19 00-0080 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	140.93	25.68
For Single Layer Of Felt Finish, Add	7.41	
For Work In Restricted Working Space, Add	21.11	
<b>22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation</b> <small>(22 07 19 00-0001)</small>		
22 07 19 00-0082 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.98	6.44
For Single Layer Of Felt Finish, Add	1.10	
For Work In Restricted Working Space, Add	5.24	
22 07 19 00-0083 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.34	6.44
For Single Layer Of Felt Finish, Add	1.14	
For Work In Restricted Working Space, Add	5.24	
22 07 19 00-0084 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.32	6.50
For Single Layer Of Felt Finish, Add	1.22	
For Work In Restricted Working Space, Add	5.30	
22 07 19 00-0085 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.08	6.54
For Single Layer Of Felt Finish, Add	1.29	
For Work In Restricted Working Space, Add	5.33	
22 07 19 00-0086 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.96	6.61
For Single Layer Of Felt Finish, Add	1.36	
For Work In Restricted Working Space, Add	5.39	
22 07 19 00-0087 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.16	6.86
For Single Layer Of Felt Finish, Add	1.42	
For Work In Restricted Working Space, Add	5.59	
22 07 19 00-0088 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.91	7.09
For Single Layer Of Felt Finish, Add	1.54	
For Work In Restricted Working Space, Add	5.78	
22 07 19 00-0089 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.54	7.35
For Single Layer Of Felt Finish, Add	1.64	
For Work In Restricted Working Space, Add	5.99	
22 07 19 00-0090 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.21	7.76
For Single Layer Of Felt Finish, Add	1.90	
For Work In Restricted Working Space, Add	6.32	
22 07 19 00-0091 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	44.91	8.81
For Single Layer Of Felt Finish, Add	2.20	
For Work In Restricted Working Space, Add	7.18	
22 07 19 00-0092 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	59.30	9.81
For Single Layer Of Felt Finish, Add	3.43	
For Work In Restricted Working Space, Add	8.00	
22 07 19 00-0093 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.71	11.33
For Single Layer Of Felt Finish, Add	4.19	
For Work In Restricted Working Space, Add	9.23	
22 07 19 00-0094 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.78	14.08
For Single Layer Of Felt Finish, Add	4.46	
For Work In Restricted Working Space, Add	11.48	
22 07 19 00-0095 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	91.16	15.37
For Single Layer Of Felt Finish, Add	5.18	
For Work In Restricted Working Space, Add	12.53	
22 07 19 00-0096 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	107.80	19.65
For Single Layer Of Felt Finish, Add	5.71	
For Work In Restricted Working Space, Add	16.01	
22 07 19 00-0097 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	115.77	20.63
For Single Layer Of Felt Finish, Add	6.27	
For Work In Restricted Working Space, Add	16.82	
22 07 19 00-0098 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	131.46	23.59
For Single Layer Of Felt Finish, Add	7.07	
For Work In Restricted Working Space, Add	19.23	
22 07 19 00-0099 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	154.86	28.49
For Single Layer Of Felt Finish, Add	8.13	
For Work In Restricted Working Space, Add	23.23	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 07 19 00-0100</b>				<b>3-1/2" Thick Fiberglass Pipe Insulation</b> <small>(22 07 19 00-0001)</small>		
22 07 19 00-0101	LF			1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.20	6.99
				<i>For Single Layer Of Felt Finish, Add</i>	1.16	
				<i>For Work In Restricted Working Space, Add</i>	5.75	
22 07 19 00-0102	LF			3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.62	6.99
				<i>For Single Layer Of Felt Finish, Add</i>	1.20	
				<i>For Work In Restricted Working Space, Add</i>	5.75	
22 07 19 00-0103	LF			1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.02	6.99
				<i>For Single Layer Of Felt Finish, Add</i>	1.34	
				<i>For Work In Restricted Working Space, Add</i>	5.78	
22 07 19 00-0104	LF			1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.85	7.14
				<i>For Single Layer Of Felt Finish, Add</i>	1.41	
				<i>For Work In Restricted Working Space, Add</i>	5.82	
22 07 19 00-0105	LF			1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.84	7.14
				<i>For Single Layer Of Felt Finish, Add</i>	1.49	
				<i>For Work In Restricted Working Space, Add</i>	5.90	
22 07 19 00-0106	LF			2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.09	7.43
				<i>For Single Layer Of Felt Finish, Add</i>	1.55	
				<i>For Work In Restricted Working Space, Add</i>	6.09	
22 07 19 00-0107	LF			2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.01	7.72
				<i>For Single Layer Of Felt Finish, Add</i>	1.68	
				<i>For Work In Restricted Working Space, Add</i>	6.31	
22 07 19 00-0108	LF			3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.68	8.00
				<i>For Single Layer Of Felt Finish, Add</i>	1.78	
				<i>For Work In Restricted Working Space, Add</i>	6.53	
22 07 19 00-0109	LF			4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.84	8.45
				<i>For Single Layer Of Felt Finish, Add</i>	2.08	
				<i>For Work In Restricted Working Space, Add</i>	6.90	
22 07 19 00-0110	LF			6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.03	9.61
				<i>For Single Layer Of Felt Finish, Add</i>	2.41	
				<i>For Work In Restricted Working Space, Add</i>	7.84	
22 07 19 00-0111	LF			8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	64.75	10.63
				<i>For Single Layer Of Felt Finish, Add</i>	3.74	
				<i>For Work In Restricted Working Space, Add</i>	8.73	
22 07 19 00-0112	LF			10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	77.23	12.23
				<i>For Single Layer Of Felt Finish, Add</i>	4.58	
				<i>For Work In Restricted Working Space, Add</i>	10.07	
22 07 19 00-0113	LF			12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	88.21	15.29
				<i>For Single Layer Of Felt Finish, Add</i>	4.88	
				<i>For Work In Restricted Working Space, Add</i>	12.52	
22 07 19 00-0114	LF			14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	99.58	16.74
				<i>For Single Layer Of Felt Finish, Add</i>	5.67	
				<i>For Work In Restricted Working Space, Add</i>	13.67	
22 07 19 00-0115	LF			16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	117.75	21.26
				<i>For Single Layer Of Felt Finish, Add</i>	6.25	
				<i>For Work In Restricted Working Space, Add</i>	17.47	
22 07 19 00-0116	LF			18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	126.43	22.42
				<i>For Single Layer Of Felt Finish, Add</i>	6.85	
				<i>For Work In Restricted Working Space, Add</i>	18.35	
22 07 19 00-0117	LF			20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	143.61	25.63
				<i>For Single Layer Of Felt Finish, Add</i>	7.74	
				<i>For Work In Restricted Working Space, Add</i>	20.98	
22 07 19 00-0118	LF			24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	169.13	30.87
				<i>For Single Layer Of Felt Finish, Add</i>	8.89	
				<i>For Work In Restricted Working Space, Add</i>	25.34	
<b>22 07 19 00-0119</b>				<b>4" Thick Fiberglass Pipe Insulation</b> <small>(22 07 19 00-0001)</small>		
22 07 19 00-0120	LF			1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.18	7.86
				<i>For Single Layer Of Felt Finish, Add</i>	1.36	
				<i>For Work In Restricted Working Space, Add</i>	6.38	
22 07 19 00-0121	LF			3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	34.64	7.86
				<i>For Single Layer Of Felt Finish, Add</i>	1.40	
				<i>For Work In Restricted Working Space, Add</i>	6.38	
22 07 19 00-0122	LF			1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.96	7.86
				<i>For Single Layer Of Felt Finish, Add</i>	1.50	
				<i>For Work In Restricted Working Space, Add</i>	6.49	
22 07 19 00-0123	LF			1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.03	8.00
				<i>For Single Layer Of Felt Finish, Add</i>	1.59	
				<i>For Work In Restricted Working Space, Add</i>	6.57	
22 07 19 00-0124	LF			1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.54	8.30
				<i>For Single Layer Of Felt Finish, Add</i>	1.68	
				<i>For Work In Restricted Working Space, Add</i>	6.77	
22 07 19 00-0125	LF			2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.93	8.59
				<i>For Single Layer Of Felt Finish, Add</i>	1.75	
				<i>For Work In Restricted Working Space, Add</i>	6.98	
22 07 19 00-0126	LF			2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.63	8.59
				<i>For Single Layer Of Felt Finish, Add</i>	1.89	
				<i>For Work In Restricted Working Space, Add</i>	7.09	
22 07 19 00-0127	LF			3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.67	9.03
				<i>For Single Layer Of Felt Finish, Add</i>	2.01	
				<i>For Work In Restricted Working Space, Add</i>	7.35	

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0128 LF 4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.16	9.46
For Single Layer Of Felt Finish, Add	2.34	
For Work In Restricted Working Space, Add	7.76	
22 07 19 00-0129 LF 6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	55.14	10.78
For Single Layer Of Felt Finish, Add	2.71	
For Work In Restricted Working Space, Add	8.81	
22 07 19 00-0130 LF 8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	72.85	11.64
For Single Layer Of Felt Finish, Add	4.21	
For Work In Restricted Working Space, Add	9.82	
22 07 19 00-0131 LF 10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	86.90	13.84
For Single Layer Of Felt Finish, Add	5.15	
For Work In Restricted Working Space, Add	11.34	
22 07 19 00-0132 LF 12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	99.26	17.18
For Single Layer Of Felt Finish, Add	5.49	
For Work In Restricted Working Space, Add	14.09	
22 07 19 00-0133 LF 14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	112.06	18.78
For Single Layer Of Felt Finish, Add	6.38	
For Work In Restricted Working Space, Add	15.39	
22 07 19 00-0134 LF 16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	132.53	24.02
For Single Layer Of Felt Finish, Add	7.03	
For Work In Restricted Working Space, Add	19.67	
22 07 19 00-0135 LF 18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	142.17	25.19
For Single Layer Of Felt Finish, Add	7.71	
For Work In Restricted Working Space, Add	20.62	
22 07 19 00-0136 LF 20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	159.64	28.83
For Single Layer Of Felt Finish, Add	8.50	
For Work In Restricted Working Space, Add	23.60	
22 07 19 00-0137 LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	190.31	34.80
For Single Layer Of Felt Finish, Add	10.00	
For Work In Restricted Working Space, Add	28.51	
22 07 19 00-0138 LF 26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	217.71	41.06
For Single Layer Of Felt Finish, Add	11.10	
For Work In Restricted Working Space, Add	33.60	
22 07 19 00-0139 LF 28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	246.10	48.34
For Single Layer Of Felt Finish, Add	11.99	
For Work In Restricted Working Space, Add	39.57	
22 07 19 00-0140 LF 30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	278.44	57.08
For Single Layer Of Felt Finish, Add	12.83	
For Work In Restricted Working Space, Add	46.87	
22 07 19 00-0141 LF 36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	337.49	72.57
For Single Layer Of Felt Finish, Add	14.58	
For Work In Restricted Working Space, Add	59.60	
22 07 19 00-0142 LF 42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	396.54	88.38
For Single Layer Of Felt Finish, Add	16.32	
For Work In Restricted Working Space, Add	72.32	
22 07 19 00-0143 LF 44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	427.18	97.12
For Single Layer Of Felt Finish, Add	16.95	
For Work In Restricted Working Space, Add	79.71	
22 07 19 00-0144 LF 46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	454.58	104.55
For Single Layer Of Felt Finish, Add	17.64	
For Work In Restricted Working Space, Add	85.99	
<b>22 07 19 00-0145 4-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		
22 07 19 00-0146 LF 1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	37.54	8.46
For Single Layer Of Felt Finish, Add	1.54	
For Work In Restricted Working Space, Add	6.86	
22 07 19 00-0147 LF 3/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	38.08	8.46
For Single Layer Of Felt Finish, Add	1.60	
For Work In Restricted Working Space, Add	6.86	
22 07 19 00-0148 LF 1" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	39.57	8.46
For Single Layer Of Felt Finish, Add	1.71	
For Work In Restricted Working Space, Add	6.98	
22 07 19 00-0149 LF 1-1/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.76	8.61
For Single Layer Of Felt Finish, Add	1.81	
For Work In Restricted Working Space, Add	7.06	
22 07 19 00-0150 LF 1-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.42	8.92
For Single Layer Of Felt Finish, Add	1.91	
For Work In Restricted Working Space, Add	7.28	
22 07 19 00-0151 LF 2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.97	9.23
For Single Layer Of Felt Finish, Add	1.99	
For Work In Restricted Working Space, Add	7.51	
22 07 19 00-0152 LF 2-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.89	9.23
For Single Layer Of Felt Finish, Add	2.15	
For Work In Restricted Working Space, Add	7.62	
22 07 19 00-0153 LF 3" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.16	9.70
For Single Layer Of Felt Finish, Add	2.29	
For Work In Restricted Working Space, Add	7.90	
22 07 19 00-0154 LF 4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	53.16	10.18
For Single Layer Of Felt Finish, Add	2.66	
For Work In Restricted Working Space, Add	8.34	
22 07 19 00-0155 LF 6" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.90	11.58
For Single Layer Of Felt Finish, Add	3.08	
For Work In Restricted Working Space, Add	9.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0156 LF 8" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	80.82	12.52
<i>For Single Layer Of Felt Finish, Add</i>	4.79	
<i>For Work In Restricted Working Space, Add</i>	10.56	
22 07 19 00-0157 LF 10" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.50	14.87
<i>For Single Layer Of Felt Finish, Add</i>	5.87	
<i>For Work In Restricted Working Space, Add</i>	12.19	
22 07 19 00-0158 LF 12" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	110.00	18.47
<i>For Single Layer Of Felt Finish, Add</i>	6.25	
<i>For Work In Restricted Working Space, Add</i>	15.15	
22 07 19 00-0159 LF 14" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	124.27	20.19
<i>For Single Layer Of Felt Finish, Add</i>	7.26	
<i>For Work In Restricted Working Space, Add</i>	16.54	
22 07 19 00-0160 LF 16" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	146.67	25.83
<i>For Single Layer Of Felt Finish, Add</i>	8.00	
<i>For Work In Restricted Working Space, Add</i>	21.15	
22 07 19 00-0161 LF 18" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	157.44	27.08
<i>For Single Layer Of Felt Finish, Add</i>	8.77	
<i>For Work In Restricted Working Space, Add</i>	22.16	
22 07 19 00-0162 LF 20" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	176.67	30.99
<i>For Single Layer Of Felt Finish, Add</i>	9.67	
<i>For Work In Restricted Working Space, Add</i>	25.37	
22 07 19 00-0163 LF 24" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	210.54	37.41
<i>For Single Layer Of Felt Finish, Add</i>	11.38	
<i>For Work In Restricted Working Space, Add</i>	30.65	
22 07 19 00-0164 LF 26" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	240.67	44.14
<i>For Single Layer Of Felt Finish, Add</i>	12.63	
<i>For Work In Restricted Working Space, Add</i>	36.12	
22 07 19 00-0165 LF 28" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	271.70	51.96
<i>For Single Layer Of Felt Finish, Add</i>	13.64	
<i>For Work In Restricted Working Space, Add</i>	42.53	
22 07 19 00-0166 LF 30" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	306.99	61.35
<i>For Single Layer Of Felt Finish, Add</i>	14.60	
<i>For Work In Restricted Working Space, Add</i>	50.39	
22 07 19 00-0167 LF 36" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	371.50	78.01
<i>For Single Layer Of Felt Finish, Add</i>	16.59	
<i>For Work In Restricted Working Space, Add</i>	64.06	
22 07 19 00-0168 LF 42" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	436.03	95.01
<i>For Single Layer Of Felt Finish, Add</i>	18.57	
<i>For Work In Restricted Working Space, Add</i>	77.75	
22 07 19 00-0169 LF 44" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	469.34	104.40
<i>For Single Layer Of Felt Finish, Add</i>	19.29	
<i>For Work In Restricted Working Space, Add</i>	85.69	
22 07 19 00-0170 LF 46" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	499.20	112.38
<i>For Single Layer Of Felt Finish, Add</i>	20.06	
<i>For Work In Restricted Working Space, Add</i>	92.44	
<b>22 07 19 00-0171 5" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		
22 07 19 00-0172 LF 1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	41.67	9.30
<i>For Single Layer Of Felt Finish, Add</i>	1.73	
<i>For Work In Restricted Working Space, Add</i>	7.55	
22 07 19 00-0173 LF 3/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.25	9.30
<i>For Single Layer Of Felt Finish, Add</i>	1.80	
<i>For Work In Restricted Working Space, Add</i>	7.55	
22 07 19 00-0174 LF 1" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.91	9.30
<i>For Single Layer Of Felt Finish, Add</i>	1.92	
<i>For Work In Restricted Working Space, Add</i>	7.67	
22 07 19 00-0175 LF 1-1/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	45.27	9.47
<i>For Single Layer Of Felt Finish, Add</i>	2.03	
<i>For Work In Restricted Working Space, Add</i>	7.77	
22 07 19 00-0176 LF 1-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	47.13	9.81
<i>For Single Layer Of Felt Finish, Add</i>	2.14	
<i>For Work In Restricted Working Space, Add</i>	8.01	
22 07 19 00-0177 LF 2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.82	10.16
<i>For Single Layer Of Felt Finish, Add</i>	2.24	
<i>For Work In Restricted Working Space, Add</i>	8.26	
22 07 19 00-0178 LF 2-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	50.98	10.16
<i>For Single Layer Of Felt Finish, Add</i>	2.42	
<i>For Work In Restricted Working Space, Add</i>	8.39	
22 07 19 00-0179 LF 3" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	53.53	10.68
<i>For Single Layer Of Felt Finish, Add</i>	2.58	
<i>For Work In Restricted Working Space, Add</i>	8.69	
22 07 19 00-0180 LF 4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	59.13	11.19
<i>For Single Layer Of Felt Finish, Add</i>	3.00	
<i>For Work In Restricted Working Space, Add</i>	9.18	
22 07 19 00-0181 LF 6" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	67.73	12.74
<i>For Single Layer Of Felt Finish, Add</i>	3.47	
<i>For Work In Restricted Working Space, Add</i>	10.41	
22 07 19 00-0182 LF 8" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	90.03	13.78
<i>For Single Layer Of Felt Finish, Add</i>	5.39	
<i>For Work In Restricted Working Space, Add</i>	11.61	
22 07 19 00-0183 LF 10" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	107.54	16.36
<i>For Single Layer Of Felt Finish, Add</i>	6.60	
<i>For Work In Restricted Working Space, Add</i>	13.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0184 LF 12" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	122.48	20.32
For Single Layer Of Felt Finish, Add	7.03	
For Work In Restricted Working Space, Add	16.66	
22 07 19 00-0185 LF 14" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	138.43	22.21
For Single Layer Of Felt Finish, Add	8.17	
For Work In Restricted Working Space, Add	18.20	
22 07 19 00-0186 LF 16" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	163.24	28.40
For Single Layer Of Felt Finish, Add	9.00	
For Work In Restricted Working Space, Add	23.27	
22 07 19 00-0187 LF 18" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	175.26	29.78
For Single Layer Of Felt Finish, Add	9.87	
For Work In Restricted Working Space, Add	24.38	
22 07 19 00-0188 LF 20" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	196.66	34.10
For Single Layer Of Felt Finish, Add	10.88	
For Work In Restricted Working Space, Add	27.91	
22 07 19 00-0189 LF 24" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	234.31	41.15
For Single Layer Of Felt Finish, Add	12.80	
For Work In Restricted Working Space, Add	33.71	
22 07 19 00-0190 LF 26" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	267.74	48.55
For Single Layer Of Felt Finish, Add	14.21	
For Work In Restricted Working Space, Add	39.73	
22 07 19 00-0191 LF 28" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	302.13	57.16
For Single Layer Of Felt Finish, Add	15.35	
For Work In Restricted Working Space, Add	46.79	
22 07 19 00-0192 LF 30" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	341.17	67.50
For Single Layer Of Felt Finish, Add	16.42	
For Work In Restricted Working Space, Add	55.43	
22 07 19 00-0193 LF 36" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	412.61	85.82
For Single Layer Of Felt Finish, Add	18.66	
For Work In Restricted Working Space, Add	70.47	
22 07 19 00-0194 LF 42" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	484.05	104.51
For Single Layer Of Felt Finish, Add	20.89	
For Work In Restricted Working Space, Add	85.52	
22 07 19 00-0195 LF 44" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	520.86	114.85
For Single Layer Of Felt Finish, Add	21.70	
For Work In Restricted Working Space, Add	94.26	
22 07 19 00-0196 LF 46" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	553.91	123.62
For Single Layer Of Felt Finish, Add	22.57	
For Work In Restricted Working Space, Add	101.68	
<b>22 07 19 00-0197 Foamglas (Cellular Glass) Pipe Insulation, Rigid, Closed Cell (22 07 19)</b>		
Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.		
<b>22 07 19 00-0198 1" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0199 LF 1/2" Diameter Pipe, 1" Thick Foamglas Insulation .....	24.31	7.11
For Work In Restricted Working Space, Add	6.46	
22 07 19 00-0200 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation .....	25.02	7.11
For Work In Restricted Working Space, Add	6.46	
22 07 19 00-0201 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation .....	26.05	7.21
For Work In Restricted Working Space, Add	6.55	
22 07 19 00-0202 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation .....	26.60	7.31
For Work In Restricted Working Space, Add	6.65	
22 07 19 00-0203 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation .....	27.38	7.41
For Work In Restricted Working Space, Add	6.74	
22 07 19 00-0204 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation .....	28.92	7.61
For Work In Restricted Working Space, Add	6.93	
22 07 19 00-0205 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation .....	30.88	7.93
For Work In Restricted Working Space, Add	7.21	
22 07 19 00-0206 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation .....	32.89	8.14
For Work In Restricted Working Space, Add	7.40	
22 07 19 00-0207 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation .....	37.36	8.75
For Work In Restricted Working Space, Add	7.96	
22 07 19 00-0208 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation .....	46.32	9.87
For Work In Restricted Working Space, Add	8.98	
<b>22 07 19 00-0209 1-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0210 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation .....	28.02	7.87
For Work In Restricted Working Space, Add	6.93	
22 07 19 00-0211 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation .....	28.47	7.87
For Work In Restricted Working Space, Add	6.93	
22 07 19 00-0212 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation .....	29.22	7.98
For Work In Restricted Working Space, Add	7.02	
22 07 19 00-0213 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation .....	29.86	8.08
For Work In Restricted Working Space, Add	7.11	
22 07 19 00-0214 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation .....	30.45	8.19
For Work In Restricted Working Space, Add	7.21	
22 07 19 00-0215 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation .....	32.63	8.46
For Work In Restricted Working Space, Add	7.45	
22 07 19 00-0216 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation .....	36.19	8.78
For Work In Restricted Working Space, Add	7.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0217 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.33 7.96	9.04
22 07 19 00-0218 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.97 8.47	9.62
22 07 19 00-0219 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.36 9.59	10.91
22 07 19 00-0220 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	57.40 10.70	12.16
22 07 19 00-0221 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	68.97 12.34	14.03
22 07 19 00-0222 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	82.56 15.33	17.43
22 07 19 00-0223 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	91.35 16.66	18.33
22 07 19 00-0224 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	100.85 18.61	20.47
22 07 19 00-0225 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	115.29 22.02	24.21
22 07 19 00-0226 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	128.56 24.38	26.81
22 07 19 00-0227 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation <i>For Work In Restricted Working Space, Add</i>	156.86 27.00	29.70
<b>22 07 19 00-0228 2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0229 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	31.09 7.40	8.14
22 07 19 00-0230 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	31.78 7.40	8.14
22 07 19 00-0231 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	32.77 7.49	8.22
22 07 19 00-0232 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	34.16 7.58	8.35
22 07 19 00-0233 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.59 7.67	8.45
22 07 19 00-0234 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.12 7.96	8.75
22 07 19 00-0235 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.92 8.24	9.07
22 07 19 00-0236 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.56 8.51	9.36
22 07 19 00-0237 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	48.42 8.99	9.88
22 07 19 00-0238 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	57.35 10.21	11.22
22 07 19 00-0239 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	63.86 11.38	12.52
22 07 19 00-0240 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	76.95 13.12	14.43
22 07 19 00-0241 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	95.38 16.31	17.94
22 07 19 00-0242 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	102.29 17.80	19.59
22 07 19 00-0243 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	122.72 22.75	25.03
22 07 19 00-0244 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	132.83 23.88	26.28
22 07 19 00-0245 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	147.87 27.31	30.03
22 07 19 00-0246 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	184.17 32.99	36.29
<b>22 07 19 00-0247 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0248 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	36.75 8.02	8.83
22 07 19 00-0249 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.91 8.01	8.81
22 07 19 00-0250 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.55 8.15	8.96
22 07 19 00-0251 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.93 8.21	9.03
22 07 19 00-0252 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	42.33 8.27	9.10
22 07 19 00-0253 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.11 8.61	9.46
22 07 19 00-0254 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	47.74 8.91	9.80
22 07 19 00-0255 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.38 9.22	10.14
22 07 19 00-0256 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	56.94 9.72	10.69
22 07 19 00-0257 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	67.50 11.05	12.16

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0258 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	75.21	13.55
<i>For Work In Restricted Working Space, Add</i>	12.32	
22 07 19 00-0259 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	85.97	15.63
<i>For Work In Restricted Working Space, Add</i>	14.21	
22 07 19 00-0260 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	107.01	19.43
<i>For Work In Restricted Working Space, Add</i>	17.66	
22 07 19 00-0261 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	112.49	21.20
<i>For Work In Restricted Working Space, Add</i>	19.28	
22 07 19 00-0262 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	134.59	27.10
<i>For Work In Restricted Working Space, Add</i>	24.63	
22 07 19 00-0263 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	145.41	28.46
<i>For Work In Restricted Working Space, Add</i>	25.87	
22 07 19 00-0264 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	167.00	32.52
<i>For Work In Restricted Working Space, Add</i>	29.57	
22 07 19 00-0265 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation .....	207.80	39.29
<i>For Work In Restricted Working Space, Add</i>	35.72	
<b>22 07 19 00-0266 3" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0267 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation .....	43.20	9.38
<i>For Work In Restricted Working Space, Add</i>	8.53	
22 07 19 00-0268 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation .....	43.91	9.38
<i>For Work In Restricted Working Space, Add</i>	8.53	
22 07 19 00-0269 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation .....	45.09	9.54
<i>For Work In Restricted Working Space, Add</i>	8.67	
22 07 19 00-0270 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation .....	46.00	9.59
<i>For Work In Restricted Working Space, Add</i>	8.73	
22 07 19 00-0271 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation .....	46.97	9.68
<i>For Work In Restricted Working Space, Add</i>	8.80	
22 07 19 00-0272 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation .....	50.17	10.07
<i>For Work In Restricted Working Space, Add</i>	9.16	
22 07 19 00-0273 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation .....	53.21	10.43
<i>For Work In Restricted Working Space, Add</i>	9.47	
22 07 19 00-0274 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation .....	59.48	10.79
<i>For Work In Restricted Working Space, Add</i>	9.81	
22 07 19 00-0275 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation .....	67.02	11.37
<i>For Work In Restricted Working Space, Add</i>	10.34	
22 07 19 00-0276 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation .....	73.82	12.93
<i>For Work In Restricted Working Space, Add</i>	11.75	
22 07 19 00-0277 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation .....	83.21	14.42
<i>For Work In Restricted Working Space, Add</i>	13.11	
22 07 19 00-0278 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation .....	98.74	16.63
<i>For Work In Restricted Working Space, Add</i>	15.11	
22 07 19 00-0279 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation .....	115.92	20.66
<i>For Work In Restricted Working Space, Add</i>	18.78	
22 07 19 00-0280 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation .....	124.52	22.55
<i>For Work In Restricted Working Space, Add</i>	20.51	
22 07 19 00-0281 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation .....	150.39	28.83
<i>For Work In Restricted Working Space, Add</i>	26.21	
22 07 19 00-0282 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation .....	160.46	30.27
<i>For Work In Restricted Working Space, Add</i>	27.52	
22 07 19 00-0283 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation .....	187.23	34.60
<i>For Work In Restricted Working Space, Add</i>	31.45	
22 07 19 00-0284 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation .....	228.45	41.81
<i>For Work In Restricted Working Space, Add</i>	38.00	
<b>22 07 19 00-0285 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0286 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	52.11	11.37
<i>For Work In Restricted Working Space, Add</i>	10.34	
22 07 19 00-0287 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	53.00	11.37
<i>For Work In Restricted Working Space, Add</i>	10.34	
22 07 19 00-0288 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	54.12	11.44
<i>For Work In Restricted Working Space, Add</i>	10.41	
22 07 19 00-0289 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	55.23	11.51
<i>For Work In Restricted Working Space, Add</i>	10.48	
22 07 19 00-0290 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	56.56	11.66
<i>For Work In Restricted Working Space, Add</i>	10.61	
22 07 19 00-0291 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	61.53	12.07
<i>For Work In Restricted Working Space, Add</i>	10.97	
22 07 19 00-0292 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	66.58	12.49
<i>For Work In Restricted Working Space, Add</i>	11.36	
22 07 19 00-0293 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	70.08	12.93
<i>For Work In Restricted Working Space, Add</i>	11.75	
22 07 19 00-0294 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	74.89	13.67
<i>For Work In Restricted Working Space, Add</i>	12.42	
22 07 19 00-0295 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	86.02	15.52
<i>For Work In Restricted Working Space, Add</i>	14.11	
22 07 19 00-0296 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	97.50	17.28
<i>For Work In Restricted Working Space, Add</i>	15.71	
22 07 19 00-0297 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	115.95	19.95
<i>For Work In Restricted Working Space, Add</i>	18.13	
22 07 19 00-0298 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	138.11	24.80
<i>For Work In Restricted Working Space, Add</i>	22.54	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0299 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	145.15 24.61	27.07
22 07 19 00-0300 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	175.92 31.45	34.60
22 07 19 00-0301 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	191.84 33.02	36.33
22 07 19 00-0302 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	218.59 37.77	41.55
22 07 19 00-0303 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	267.65 45.60	50.16
<b>22 07 19 00-0304 4" Thick Foamglas Pipe Insulation</b> <small>(22 07 19 00-0197)</small>		
22 07 19 00-0305 LF 1/2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	63.55 12.70	13.98
22 07 19 00-0306 LF 3/4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	64.70 12.70	13.98
22 07 19 00-0307 LF 1" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	66.58 12.92	14.21
22 07 19 00-0308 LF 1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	68.23 13.07	14.39
22 07 19 00-0309 LF 1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	70.75 13.48	14.84
22 07 19 00-0310 LF 2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	75.79 13.90	15.29
22 07 19 00-0311 LF 2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	80.13 14.12	15.53
22 07 19 00-0312 LF 3" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	83.95 14.64	16.11
22 07 19 00-0313 LF 4" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	92.07 16.33	17.96
22 07 19 00-0314 LF 6" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	105.18 17.53	19.27
22 07 19 00-0315 LF 8" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	118.00 19.01	20.91
22 07 19 00-0316 LF 10" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	135.93 22.58	24.84
22 07 19 00-0317 LF 12" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	160.42 28.04	30.86
22 07 19 00-0318 LF 14" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	174.57 30.64	33.69
22 07 19 00-0319 LF 16" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	209.92 39.17	43.08
22 07 19 00-0320 LF 18" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	231.11 41.05	45.16
22 07 19 00-0321 LF 20" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	260.00 46.98	51.67
22 07 19 00-0322 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	327.02 56.75	62.44
<b>22 07 19 00-0323 Flexible Polyethylene Tubing Closed Cell Foam Insulation</b> <small>(22 07 19)</small>		
Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
<b>22 07 19 00-0324 3/8" Wall Flexible Polyethylene Tubing Foam Insulation</b> <small>(22 07 19 00-0323)</small>		
22 07 19 00-0325 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.21 2.62	4.35
22 07 19 00-0326 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.23 2.62	4.35
22 07 19 00-0327 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.60 2.71	4.51
22 07 19 00-0328 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.97 2.80	4.66
22 07 19 00-0329 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.31 2.84	4.75
22 07 19 00-0330 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.70 2.89	4.82
22 07 19 00-0331 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.85 2.90	4.82
22 07 19 00-0332 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.27 2.92	4.82
22 07 19 00-0333 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.13 3.00	4.97
22 07 19 00-0334 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.51 3.05	5.05
<b>22 07 19 00-0335 1/2" Wall Flexible Polyethylene Tubing Foam Insulation</b> <small>(22 07 19 00-0323)</small>		
22 07 19 00-0336 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.20 2.84	4.75
22 07 19 00-0337 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.31 2.87	4.75

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0338 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.47 2.89	4.82
22 07 19 00-0339 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.66 2.91	4.85
22 07 19 00-0340 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.15 2.98	4.97
22 07 19 00-0341 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.57 3.03	5.05
22 07 19 00-0342 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.03 3.08	5.13
22 07 19 00-0343 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.59 3.12	5.20
22 07 19 00-0344 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.57 3.21	5.36
22 07 19 00-0345 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.57 3.26	5.43
22 07 19 00-0346 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.51 3.30	5.50
22 07 19 00-0347 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.09 3.35	5.58
<b>22 07 19 00-0348 3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>		
22 07 19 00-0349 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.31 3.08	5.13
22 07 19 00-0350 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.46 3.12	5.20
22 07 19 00-0351 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.14 3.21	5.36
22 07 19 00-0352 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.45 3.26	5.43
22 07 19 00-0353 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.29 3.35	5.58
22 07 19 00-0354 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.11 3.39	5.66
22 07 19 00-0355 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.48 3.41	5.69
22 07 19 00-0356 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.97 3.44	5.74
22 07 19 00-0357 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.06 3.53	5.88
22 07 19 00-0358 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.20 3.58	5.97
22 07 19 00-0359 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.69 3.63	6.04
22 07 19 00-0360 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.32 3.67	6.11
<b>22 07 19 00-0361 1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>		
22 07 19 00-0362 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.82 3.39	5.66
22 07 19 00-0363 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.13 3.44	5.74
22 07 19 00-0364 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.09 3.53	5.88
22 07 19 00-0365 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.38 3.58	5.97
22 07 19 00-0366 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.78 3.67	6.11
22 07 19 00-0367 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.51 3.76	6.27
22 07 19 00-0368 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.80 3.80	6.34
22 07 19 00-0369 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.13 3.85	6.43
22 07 19 00-0370 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.12 3.95	6.59
22 07 19 00-0371 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.97 3.99	6.66
<b>22 07 19 00-0372 Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19)</b> Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
<b>22 07 19 00-0373 3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>		
22 07 19 00-0374 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.48 2.62	4.35
22 07 19 00-0375 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.62 2.62	4.35
22 07 19 00-0376 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.99 2.71	4.51
22 07 19 00-0377 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.20 2.75	4.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0378 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.43 2.80	4.66
22 07 19 00-0379 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	10.73 2.84	4.75
22 07 19 00-0380 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.00 2.89	4.82
22 07 19 00-0381 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.24 2.90	4.82
22 07 19 00-0382 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.45 2.92	4.82
22 07 19 00-0383 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.68 2.93	4.90
22 07 19 00-0384 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.02 2.98	4.97
22 07 19 00-0385 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.30 3.00	4.97
22 07 19 00-0386 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.52 3.03	5.05
22 07 19 00-0387 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.80 3.05	5.05
22 07 19 00-0388 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.40 3.08	5.13
22 07 19 00-0389 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.12 3.12	5.20
22 07 19 00-0390 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.89 3.14	5.23
<b>22 07 19 00-0391 1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>		
22 07 19 00-0392 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.64 2.84	4.75
22 07 19 00-0393 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.77 2.87	4.75
22 07 19 00-0394 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.93 2.89	4.82
22 07 19 00-0395 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.12 2.90	4.82
22 07 19 00-0396 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.28 2.91	4.82
22 07 19 00-0397 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.70 2.98	4.97
22 07 19 00-0398 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.10 3.03	5.05
22 07 19 00-0399 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.44 3.08	5.13
22 07 19 00-0400 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.78 3.10	5.17
22 07 19 00-0401 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.05 3.12	5.20
22 07 19 00-0402 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.07 3.17	5.29
22 07 19 00-0403 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.68 3.21	5.36
22 07 19 00-0404 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.15 3.24	5.40
22 07 19 00-0405 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.54 3.26	5.43
22 07 19 00-0406 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.84 3.28	5.47
22 07 19 00-0407 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	16.09 3.30	5.50
22 07 19 00-0408 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	17.25 3.35	5.58
22 07 19 00-0409 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	17.53 3.37	5.62
22 07 19 00-0410 LF 5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	18.64 3.39	5.66
22 07 19 00-0411 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	20.01 3.49	5.81
22 07 19 00-0412 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	21.53 3.58	5.97
<b>22 07 19 00-0413 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>		
22 07 19 00-0414 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.10 3.08	5.13
22 07 19 00-0415 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.41 3.12	5.20
22 07 19 00-0416 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.89 3.21	5.36
22 07 19 00-0417 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.16 3.24	5.40
22 07 19 00-0418 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.29 3.26	5.43



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0419	LF	1"	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.97 3.35	5.58
22 07 19 00-0420	LF	1-1/4"	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.48 3.39	5.66
22 07 19 00-0421	LF	1-1/2"	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.01 3.44	5.74
22 07 19 00-0422	LF	1-1/2"	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.14 3.44	5.74
22 07 19 00-0423	LF	2"	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.35 3.47	5.78
22 07 19 00-0424	LF	2"	2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.94 3.49	5.81
22 07 19 00-0425	LF	2-1/2"	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	16.29 3.53	5.88
22 07 19 00-0426	LF	2-1/2"	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	16.96 3.56	5.92
22 07 19 00-0427	LF	3"	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	17.43 3.58	5.97
22 07 19 00-0428	LF	3"	3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	18.15 3.61	6.01
22 07 19 00-0429	LF	3-1/2"	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	18.43 3.63	6.04
22 07 19 00-0430	LF	4"	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	19.50 3.67	6.11
22 07 19 00-0431	LF	4"	4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	20.36 3.69	6.16
22 07 19 00-0432	LF	5"	5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	21.77 3.71	6.18
22 07 19 00-0433	LF	6"	6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	23.29 3.76	6.27
22 07 19 00-0434	LF	8"	8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	25.14 3.85	6.43
<b>22 07 19 00-0435</b>			<b>1" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-0372)</small>		
22 07 19 00-0436	LF	1/4"	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.03 3.39	5.65
22 07 19 00-0437	LF	3/8"	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.41 3.44	5.74
22 07 19 00-0438	LF	1/2"	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.92 3.53	5.88
22 07 19 00-0439	LF	5/8"	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.30 3.56	5.92
22 07 19 00-0440	LF	3/4"	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.64 3.58	5.97
22 07 19 00-0441	LF	1"	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	16.27 3.67	6.11
22 07 19 00-0442	LF	1-1/4"	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	17.22 3.76	6.27
22 07 19 00-0443	LF	1-1/2"	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	17.70 3.80	6.27
22 07 19 00-0444	LF	1-1/2"	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	18.32 3.83	6.34
22 07 19 00-0445	LF	2"	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	18.55 3.85	6.43
22 07 19 00-0446	LF	2"	2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	19.87 3.90	6.51
22 07 19 00-0447	LF	2-1/2"	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	20.92 3.95	6.59
22 07 19 00-0448	LF	2-1/2"	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	22.20 3.97	6.63
22 07 19 00-0449	LF	3"	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	22.60 3.99	6.66
22 07 19 00-0450	LF	3"	3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	23.28 4.01	6.70
22 07 19 00-0451	LF	3-1/2"	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	23.62 4.04	6.73
22 07 19 00-0452	LF	4"	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	26.13 4.13	6.89
22 07 19 00-0453	LF	4"	4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	27.81 4.18	6.96
22 07 19 00-0454	LF	5"	5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	30.28 4.22	7.03
22 07 19 00-0455	LF	6"	6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	32.92 4.31	7.19
<b>22 07 19 00-0456</b>			<b>1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-0372)</small>		
22 07 19 00-0457	LF	3/8"	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	20.38 3.80	6.33
22 07 19 00-0458	LF	1/2"	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	20.89 3.89	6.47
22 07 19 00-0459	LF	5/8"	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	21.28 3.91	6.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0460 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	21.67 3.93	6.57
22 07 19 00-0461 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	22.26 4.02	6.72
22 07 19 00-0462 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	23.25 4.17	6.96
22 07 19 00-0463 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	24.49 4.21	6.86
22 07 19 00-0464 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	25.56 4.26	7.02
22 07 19 00-0465 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	26.25 4.31	7.19
22 07 19 00-0466 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	28.29 4.36	7.28
22 07 19 00-0467 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	30.22 4.40	7.37
22 07 19 00-0468 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	31.13 4.43	7.40
22 07 19 00-0469 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	32.04 4.46	7.41
22 07 19 00-0470 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	33.10 4.47	7.45
22 07 19 00-0471 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	33.76 4.49	7.48
22 07 19 00-0472 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	37.43 4.64	7.76
22 07 19 00-0473 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	39.40 4.72	7.87
22 07 19 00-0474 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	44.06 4.80	7.99
22 07 19 00-0475 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	48.76 4.94	8.24
<b>22 07 19 00-0476 2" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-0372)</small>		
22 07 19 00-0477 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	28.51 4.19	6.99
22 07 19 00-0478 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	29.58 4.28	7.09
22 07 19 00-0479 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	31.31 4.30	7.15
22 07 19 00-0480 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	31.90 4.31	7.21
22 07 19 00-0481 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	33.43 4.40	7.35
22 07 19 00-0482 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	35.38 4.62	7.70
22 07 19 00-0483 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	36.46 4.65	7.51
22 07 19 00-0484 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	38.40 4.74	7.77
22 07 19 00-0485 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	40.27 4.83	8.03
22 07 19 00-0486 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	41.51 4.87	8.14
22 07 19 00-0487 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	44.02 4.91	8.24
22 07 19 00-0488 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	44.34 4.94	8.25
22 07 19 00-0489 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	46.68 4.97	8.28
22 07 19 00-0490 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	48.30 4.99	8.30
22 07 19 00-0491 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	50.02 5.00	8.35
22 07 19 00-0492 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	55.89 5.22	8.74
22 07 19 00-0493 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	59.29 5.34	8.91
22 07 19 00-0494 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	60.36 5.45	9.09
22 07 19 00-0495 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	67.40 5.66	9.45
<b>22 07 19 00-0496 Flexible Polyolefin Tubing Closed Cell Foam Insulation</b> <small>(22 07 19)</small>		
Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
<b>22 07 19 00-0497 3/8" Wall Flexible Polyolefin Tubing Foam Insulation</b> <small>(22 07 19 00-0496)</small>		
22 07 19 00-0498 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.23 2.62	4.35
22 07 19 00-0499 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.32 2.62	4.35

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0500 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.65 2.71	4.51
22 07 19 00-0501 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.04 2.80	4.66
22 07 19 00-0502 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.29 2.84	4.75
22 07 19 00-0503 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.68 2.89	4.82
22 07 19 00-0504 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.95 2.90	4.82
22 07 19 00-0505 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.15 2.92	4.97
22 07 19 00-0506 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.08 3.00	4.97
22 07 19 00-0507 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.89 3.05	5.05
22 07 19 00-0508 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.89 3.12	5.20
<b>22 07 19 00-0509 1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)</b>		
22 07 19 00-0510 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.26 2.84	4.75
22 07 19 00-0511 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.36 2.87	4.75
22 07 19 00-0512 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.54 2.89	4.82
22 07 19 00-0513 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.77 2.91	4.82
22 07 19 00-0514 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.09 2.98	4.97
22 07 19 00-0515 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.53 3.03	5.05
22 07 19 00-0516 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.98 3.08	5.13
22 07 19 00-0517 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.43 3.12	5.20
22 07 19 00-0518 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.42 3.21	5.36
22 07 19 00-0519 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.27 3.26	5.43
22 07 19 00-0520 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.89 3.35	5.58
<b>22 07 19 00-0521 3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)</b>		
22 07 19 00-0522 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.42 3.08	5.13
22 07 19 00-0523 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.76 3.12	5.20
22 07 19 00-0524 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.20 3.21	5.36
22 07 19 00-0525 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.79 3.26	5.43
22 07 19 00-0526 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.40 3.35	5.58
22 07 19 00-0527 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.32 3.39	5.66
22 07 19 00-0528 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.92 3.41	5.66
22 07 19 00-0529 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.61 3.44	5.74
22 07 19 00-0530 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.98 3.53	5.88
22 07 19 00-0531 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.18 3.58	5.97
22 07 19 00-0532 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.49 3.67	6.11
<b>22 07 19 00-0533 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)</b>		
22 07 19 00-0534 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.36 3.39	5.66
22 07 19 00-0535 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.56 3.44	5.74
22 07 19 00-0536 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.01 3.53	5.88
22 07 19 00-0537 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.84 3.58	5.97
22 07 19 00-0538 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.59 3.67	6.11
22 07 19 00-0539 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.36 3.76	6.27



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				22 07 19 00-0540 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... 17.05		6.27
				<i>For Work In Restricted Working Space, Add</i> ..... 3.80		
				22 07 19 00-0541 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... 18.57		6.43
				<i>For Work In Restricted Working Space, Add</i> ..... 3.85		
				22 07 19 00-0542 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... 20.63		6.59
				<i>For Work In Restricted Working Space, Add</i> ..... 3.95		
				22 07 19 00-0543 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... 22.08		6.66
				<i>For Work In Restricted Working Space, Add</i> ..... 3.99		
<b>22 07 19 00-0544</b>				<b>Flexible Elastomeric Unicellular Insulation</b> <small>(22 07 19)</small>		
				Note: For refrigeration piping. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
<b>22 07 19 00-0545</b>				<b>3/8" Wall Flexible Elastomeric Unicellular Insulation</b> <small>(22 07 19 00-0544)</small>		
				22 07 19 00-0546 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation ..... 10.30		4.35
				<i>For Work In Restricted Working Space, Add</i> ..... 2.61		
				22 07 19 00-0547 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation ..... 10.86		4.51
				<i>For Work In Restricted Working Space, Add</i> ..... 2.71		
				22 07 19 00-0548 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation ..... 11.36		4.68
				<i>For Work In Restricted Working Space, Add</i> ..... 2.80		
				22 07 19 00-0549 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation ..... 11.79		4.75
				<i>For Work In Restricted Working Space, Add</i> ..... 2.84		
				22 07 19 00-0550 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation ..... 12.25		4.82
				<i>For Work In Restricted Working Space, Add</i> ..... 2.89		
				22 07 19 00-0551 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation ..... 12.92		4.85
				<i>For Work In Restricted Working Space, Add</i> ..... 2.90		
				22 07 19 00-0552 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation ..... 13.80		4.98
				<i>For Work In Restricted Working Space, Add</i> ..... 2.98		
				22 07 19 00-0553 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation ..... 15.83		5.01
				<i>For Work In Restricted Working Space, Add</i> ..... 3.00		
				22 07 19 00-0554 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/8" Wall Flexible Elastomeric Unicellular Insulation ..... 17.32		5.08
				<i>For Work In Restricted Working Space, Add</i> ..... 3.05		
<b>22 07 19 00-0555</b>				<b>1/2" Wall Flexible Elastomeric Unicellular Insulation</b> <small>(22 07 19 00-0544)</small>		
				22 07 19 00-0556 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 11.75		4.68
				<i>For Work In Restricted Working Space, Add</i> ..... 2.81		
				22 07 19 00-0557 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 12.29		4.82
				<i>For Work In Restricted Working Space, Add</i> ..... 2.89		
				22 07 19 00-0558 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 12.66		4.82
				<i>For Work In Restricted Working Space, Add</i> ..... 2.91		
				22 07 19 00-0559 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 13.25		4.97
				<i>For Work In Restricted Working Space, Add</i> ..... 2.98		
				22 07 19 00-0560 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 13.74		5.05
				<i>For Work In Restricted Working Space, Add</i> ..... 3.03		
				22 07 19 00-0561 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 14.43		5.13
				<i>For Work In Restricted Working Space, Add</i> ..... 3.08		
				22 07 19 00-0562 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 15.74		5.20
				<i>For Work In Restricted Working Space, Add</i> ..... 3.12		
				22 07 19 00-0563 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 17.91		5.36
				<i>For Work In Restricted Working Space, Add</i> ..... 3.21		
				22 07 19 00-0564 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 19.33		5.43
				<i>For Work In Restricted Working Space, Add</i> ..... 3.26		
				22 07 19 00-0565 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 22.18		5.50
				<i>For Work In Restricted Working Space, Add</i> ..... 3.30		
				22 07 19 00-0566 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 1/2" Wall Flexible Elastomeric Unicellular Insulation ..... 23.53		5.58
				<i>For Work In Restricted Working Space, Add</i> ..... 3.35		
<b>22 07 19 00-0567</b>				<b>3/4" Wall Flexible Elastomeric Unicellular Insulation</b> <small>(22 07 19 00-0544)</small>		
				22 07 19 00-0568 LF 3/8" I.D. (1/2" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 13.87		5.10
				<i>For Work In Restricted Working Space, Add</i> ..... 3.05		
				22 07 19 00-0569 LF 1/2" I.D. (5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 14.72		5.36
				<i>For Work In Restricted Working Space, Add</i> ..... 3.21		
				22 07 19 00-0570 LF 3/4" I.D. (7/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 15.67		5.43
				<i>For Work In Restricted Working Space, Add</i> ..... 3.26		
				22 07 19 00-0571 LF 1" I.D. (1-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 17.04		5.59
				<i>For Work In Restricted Working Space, Add</i> ..... 3.35		
				22 07 19 00-0572 LF 1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 18.01		5.66
				<i>For Work In Restricted Working Space, Add</i> ..... 3.39		
				22 07 19 00-0573 LF 1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 20.38		5.74
				<i>For Work In Restricted Working Space, Add</i> ..... 3.44		
				22 07 19 00-0574 LF 2" I.D. (2-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 22.39		5.78
				<i>For Work In Restricted Working Space, Add</i> ..... 3.47		
				22 07 19 00-0575 LF 2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 25.46		5.89
				<i>For Work In Restricted Working Space, Add</i> ..... 3.53		
				22 07 19 00-0576 LF 3" I.D. (3-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 27.56		5.97
				<i>For Work In Restricted Working Space, Add</i> ..... 3.58		
				22 07 19 00-0577 LF 3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 31.05		6.04
				<i>For Work In Restricted Working Space, Add</i> ..... 3.63		
				22 07 19 00-0578 LF 4" I.D. (4-1/8" Outside Diameter Pipe), 3/4" Wall Flexible Elastomeric Unicellular Insulation ..... 32.65		6.11
				<i>For Work In Restricted Working Space, Add</i> ..... 3.67		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0579			<b>1" Wall Flexible Elastomeric Unicellular Insulation</b> (22 07 19 00-0544)		
22 07 19 00-0580	LF		3/8" I.D. (1/2" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	18.07	5.66
			<i>For Work In Restricted Working Space, Add</i>	3.39	
22 07 19 00-0581	LF		1/2" I.D. (5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	18.97	5.89
			<i>For Work In Restricted Working Space, Add</i>	3.53	
22 07 19 00-0582	LF		3/4" I.D. (7/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	20.80	5.97
			<i>For Work In Restricted Working Space, Add</i>	3.58	
22 07 19 00-0583	LF		1" I.D. (1-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	23.01	6.11
			<i>For Work In Restricted Working Space, Add</i>	3.67	
22 07 19 00-0584	LF		1-1/4" I.D. (1-3/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	25.03	6.27
			<i>For Work In Restricted Working Space, Add</i>	3.76	
22 07 19 00-0585	LF		1-1/2" I.D. (1-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	26.53	6.34
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 07 19 00-0586	LF		2" I.D. (2-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	29.50	6.43
			<i>For Work In Restricted Working Space, Add</i>	3.85	
22 07 19 00-0587	LF		2-1/2" I.D. (2-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	36.67	6.59
			<i>For Work In Restricted Working Space, Add</i>	3.95	
22 07 19 00-0588	LF		3" I.D. (3-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	41.81	6.66
			<i>For Work In Restricted Working Space, Add</i>	3.99	
22 07 19 00-0589	LF		3-1/2" I.D. (3-5/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	44.60	6.73
			<i>For Work In Restricted Working Space, Add</i>	4.04	
22 07 19 00-0590	LF		4" I.D. (4-1/8" Outside Diameter Pipe), 1" Wall Flexible Elastomeric Unicellular Insulation .....	50.34	6.89
			<i>For Work In Restricted Working Space, Add</i>	4.13	
22 07 19 00-0591			<b>Insulation Foam Rubber</b> (22 07 19)		
22 07 19 00-0592			<b>Covering 4x6 Sheet</b> (22 07 19 00-0591)		
22 07 19 00-0593	SF		1" Thick Foam Rubber Sheet Insulation .....	27.65	10.34
22 07 19 00-0594			<b>Insulation Protective Jacketing</b> (22 07 19)		
			Note: Jacketing only and to be added to insulation prices when required.		
22 07 19 00-0595			<b>Aluminum Insulation Protective Jacketing With Bands</b> (22 07 19 00-0594)		
22 07 19 00-0596			<b>Aluminum Roll, Insulation Protective Jacketing With Bands</b> (22 07 19 00-0595)		
22 07 19 00-0597	SF		0.006" Aluminum Insulation Jacket With Bands .....	21.81	9.32
22 07 19 00-0598	SF		0.010" Aluminum Insulation Jacket With Bands .....	22.15	9.32
22 07 19 00-0599	SF		0.016" Aluminum Insulation Jacket With Bands .....	22.48	9.32
22 07 19 00-0600	SF		0.020" Aluminum Insulation Jacket With Bands .....	22.77	9.32
22 07 19 00-0601	SF		0.024" Aluminum Insulation Jacket With Bands .....	23.05	9.32
22 07 19 00-0602			<b>16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands</b> (22 07 19 00-0595)		
22 07 19 00-0603	LF		1/2" ID, 0.016" Aluminum Insulation Jacketing .....	11.00	2.64
			<i>For Stucco Embossed, Add</i>	0.00	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0604	LF		3/4" ID, 0.016" Aluminum Insulation Jacketing .....	11.37	2.70
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0605	LF		1" ID, 0.016" Aluminum Insulation Jacketing .....	11.74	2.78
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0606	LF		1-1/4" ID, 0.016" Aluminum Insulation Jacketing .....	12.14	2.85
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0607	LF		1-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	12.43	2.89
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0608	LF		1-3/4" ID, 0.016" Aluminum Insulation Jacketing .....	12.72	2.93
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0609	LF		2" ID, 0.016" Aluminum Insulation Jacketing .....	13.09	2.99
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0610	LF		2-1/4" ID, 0.016" Aluminum Insulation Jacketing .....	13.46	3.05
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0611	LF		2-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	13.86	3.12
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0612	LF		2-3/4" ID, 0.016" Aluminum Insulation Jacketing .....	14.18	3.17
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0613	LF		3" ID, 0.016" Aluminum Insulation Jacketing .....	14.60	3.24
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0614	LF		3-1/4" ID, 0.016" Aluminum Insulation Jacketing .....	15.01	3.31
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0615 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.44 0.02 0.05	3.39
22 07 19 00-0616 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.81 0.02 0.05	3.45
22 07 19 00-0617 LF 4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.26 0.02 0.05	3.53
22 07 19 00-0618 LF 4-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.73 0.02 0.06	3.62
22 07 19 00-0619 LF 4-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.24 0.02 0.06	3.71
22 07 19 00-0620 LF 4-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.65 0.03 0.06	3.78
22 07 19 00-0621 LF 5" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.17 0.03 0.07	3.88
22 07 19 00-0622 LF 5-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.73 0.03 0.07	3.99
22 07 19 00-0623 LF 5-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.18 0.03 0.07	4.07
22 07 19 00-0624 LF 5-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.78 0.03 0.08	4.19
22 07 19 00-0625 LF 6" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.40 0.03 0.08	4.31
22 07 19 00-0626 LF 6-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.79 0.03 0.08	4.38
22 07 19 00-0627 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.18 0.03 0.08	4.44
22 07 19 00-0628 LF 7" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.82 0.04 0.09	4.55
22 07 19 00-0629 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.38 0.04 0.09	4.66
22 07 19 00-0630 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.80 0.04 0.10	4.74
22 07 19 00-0631 LF 8" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.36 0.04 0.10	4.82
22 07 19 00-0632 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.93 0.04 0.11	4.90
22 07 19 00-0633 LF 9" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.67 0.05 0.11	5.02
22 07 19 00-0634 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.28 0.05 0.12	5.11
22 07 19 00-0635 LF 10" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.89 0.05 0.13	5.20
22 07 19 00-0636 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.51 0.05 0.13	5.30
22 07 19 00-0637 LF 11" ID, 0.0106 Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.35 0.06 0.14	5.44
22 07 19 00-0638 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.03 0.06 0.15	5.55
22 07 19 00-0639 LF 12" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.70 0.06 0.15	5.65
22 07 19 00-0640 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.62 0.06 0.16	5.82
22 07 19 00-0641 LF 13" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.10 0.07 0.16	5.88
22 07 19 00-0642 LF 14" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.84 0.07 0.18	5.94

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0643	LF	15" ID, 0.016" Aluminum Insulation Jacketing .....	31.82	6.06
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0644	LF	16" ID, 0.016" Aluminum Insulation Jacketing .....	32.57	6.13
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.20	
22 07 19 00-0645	LF	17" ID, 0.016" Aluminum Insulation Jacketing .....	33.59	6.26
		<i>For Stucco Embossed, Add</i>	0.09	
		<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0646	LF	18" ID, 0.016" Aluminum Insulation Jacketing .....	34.20	6.33
		<i>For Stucco Embossed, Add</i>	0.09	
		<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0647	LF	19" ID, 0.016" Aluminum Insulation Jacketing .....	35.41	6.48
		<i>For Stucco Embossed, Add</i>	0.10	
		<i>For Corrugated, Add</i>	0.24	
22 07 19 00-0648	LF	20" ID, 0.016" Aluminum Insulation Jacketing .....	36.20	6.55
		<i>For Stucco Embossed, Add</i>	0.10	
		<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0649	LF	21" ID, 0.016" Aluminum Insulation Jacketing .....	37.30	6.70
		<i>For Stucco Embossed, Add</i>	0.11	
		<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0650	LF	22" ID, 0.016" Aluminum Insulation Jacketing .....	38.09	6.78
		<i>For Stucco Embossed, Add</i>	0.11	
		<i>For Corrugated, Add</i>	0.28	
22 07 19 00-0651	LF	23" ID, 0.016" Aluminum Insulation Jacketing .....	39.23	6.94
		<i>For Stucco Embossed, Add</i>	0.12	
		<i>For Corrugated, Add</i>	0.29	
22 07 19 00-0652	LF	24" ID, 0.016" Aluminum Insulation Jacketing .....	40.06	7.02
		<i>For Stucco Embossed, Add</i>	0.12	
		<i>For Corrugated, Add</i>	0.30	
<b>22 07 19 00-0653</b>		<b>20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small></b>		
22 07 19 00-0654	LF	1/2" ID, 0.020" Aluminum Insulation Jacketing .....	12.17	2.92
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0655	LF	3/4" ID, 0.020" Aluminum Insulation Jacketing .....	12.59	2.98
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0656	LF	1" ID, 0.020" Aluminum Insulation Jacketing .....	13.04	3.05
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0657	LF	1-1/4" ID, 0.020" Aluminum Insulation Jacketing .....	13.48	3.13
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0658	LF	1-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	13.83	3.17
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0659	LF	1-3/4" ID, 0.020" Aluminum Insulation Jacketing .....	14.17	3.22
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0660	LF	2" ID, 0.020" Aluminum Insulation Jacketing .....	14.59	3.29
		<i>For Stucco Embossed, Add</i>	0.01	
		<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0661	LF	2-1/4" ID, 0.020" Aluminum Insulation Jacketing .....	15.01	3.36
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0662	LF	2-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	15.48	3.43
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0663	LF	2-3/4" ID, 0.020" Aluminum Insulation Jacketing .....	15.86	3.48
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0664	LF	3" ID, 0.020" Aluminum Insulation Jacketing .....	16.34	3.56
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0665	LF	3-1/4" ID, 0.020" Aluminum Insulation Jacketing .....	16.82	3.64
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0666	LF	3-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	17.31	3.72
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0667	LF	3-3/4" ID, 0.020" Aluminum Insulation Jacketing .....	17.73	3.79
		<i>For Stucco Embossed, Add</i>	0.03	
		<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0668	LF	4" ID, 0.020" Aluminum Insulation Jacketing .....	18.25	3.88
		<i>For Stucco Embossed, Add</i>	0.03	
		<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0669	LF	4-1/4" ID, 0.020" Aluminum Insulation Jacketing .....	18.80	3.98
		<i>For Stucco Embossed, Add</i>	0.03	
		<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0670	LF	4-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	19.37	4.08
		<i>For Stucco Embossed, Add</i>	0.03	
		<i>For Corrugated, Add</i>	0.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0671 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.84 0.03 0.08	4.16
22 07 19 00-0672 LF 5" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.44 0.03 0.08	4.27
22 07 19 00-0673 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.07 0.04 0.09	4.38
22 07 19 00-0674 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.59 0.04 0.09	4.48
22 07 19 00-0675 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.28 0.04 0.10	4.61
22 07 19 00-0676 LF 6" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.98 0.04 0.10	4.75
22 07 19 00-0677 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.41 0.04 0.10	4.82
22 07 19 00-0678 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.87 0.04 0.11	4.89
22 07 19 00-0679 LF 7" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.61 0.05 0.11	5.01
22 07 19 00-0680 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.25 0.05 0.12	5.13
22 07 19 00-0681 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.73 0.05 0.12	5.21
22 07 19 00-0682 LF 8" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.41 0.05 0.13	5.30
22 07 19 00-0683 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.06 0.06 0.14	5.38
22 07 19 00-0684 LF 9" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.92 0.06 0.15	5.52
22 07 19 00-0685 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.64 0.06 0.15	5.62
22 07 19 00-0686 LF 10" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.35 0.06 0.16	5.72
22 07 19 00-0687 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.07 0.07 0.17	5.82
22 07 19 00-0688 LF 11" ID, 0.0106 Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.03 0.07 0.18	5.98
22 07 19 00-0689 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.81 0.07 0.19	6.10
22 07 19 00-0690 LF 12" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.60 0.08 0.19	6.22
22 07 19 00-0691 LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.66 0.08 0.20	6.40
22 07 19 00-0692 LF 13" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.23 0.08 0.21	6.48
22 07 19 00-0693 LF 14" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.13 0.09 0.22	6.54
22 07 19 00-0694 LF 15" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.29 0.10 0.24	6.68
22 07 19 00-0695 LF 16" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.21 0.10 0.26	6.75
22 07 19 00-0696 LF 17" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.40 0.11 0.27	6.89
22 07 19 00-0697 LF 18" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.12 0.11 0.28	6.97
22 07 19 00-0698 LF 19" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.58 0.12 0.30	7.12

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0699 LF 20" ID, 0.020" Aluminum Insulation Jacketing .....	41.54	7.20
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.32	
22 07 19 00-0700 LF 21" ID, 0.020" Aluminum Insulation Jacketing .....	42.82	7.36
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.33	
22 07 19 00-0701 LF 22" ID, 0.020" Aluminum Insulation Jacketing .....	43.77	7.45
For Stucco Embossed, Add	0.14	
For Corrugated, Add	0.35	
22 07 19 00-0702 LF 23" ID, 0.020" Aluminum Insulation Jacketing .....	45.12	7.63
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.37	
22 07 19 00-0703 LF 24" ID, 0.020" Aluminum Insulation Jacketing .....	46.11	7.72
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.38	
<b>22 07 19 00-0704 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0595)</small></b>		
22 07 19 00-0705 LF 1/2" ID, 0.024" Aluminum Insulation Jacketing .....	13.33	3.18
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0706 LF 3/4" ID, 0.024" Aluminum Insulation Jacketing .....	13.81	3.25
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0707 LF 1" ID, 0.024" Aluminum Insulation Jacketing .....	14.30	3.33
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0708 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing .....	14.81	3.41
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0709 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing .....	15.20	3.46
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0710 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing .....	15.60	3.51
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0711 LF 2" ID, 0.024" Aluminum Insulation Jacketing .....	16.07	3.58
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0712 LF 2-1/4" ID, 0.024" Aluminum Insulation Jacketing .....	16.56	3.66
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0713 LF 2-1/2" ID, 0.024" Aluminum Insulation Jacketing .....	17.08	3.74
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	
22 07 19 00-0714 LF 2-3/4" ID, 0.024" Aluminum Insulation Jacketing .....	17.50	3.80
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.06	
22 07 19 00-0715 LF 3" ID, 0.024" Aluminum Insulation Jacketing .....	18.05	3.88
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	
22 07 19 00-0716 LF 3-1/4" ID, 0.024" Aluminum Insulation Jacketing .....	18.59	3.97
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0717 LF 3-1/2" ID, 0.024" Aluminum Insulation Jacketing .....	19.14	4.06
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0718 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing .....	19.61	4.13
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0719 LF 4" ID, 0.024" Aluminum Insulation Jacketing .....	20.20	4.23
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0720 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing .....	20.80	4.34
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.09	
22 07 19 00-0721 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing .....	21.46	4.45
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0722 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing .....	21.99	4.53
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0723 LF 5" ID, 0.024" Aluminum Insulation Jacketing .....	22.66	4.66
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0724 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing .....	23.34	4.79
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0725 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing .....	23.94	4.89
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0726 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing .....	24.71	5.03
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0727 LF 6" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.49 0.05 0.12	5.18
22 07 19 00-0728 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.99 0.05 0.12	5.26
22 07 19 00-0729 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.49 0.05 0.13	5.34
22 07 19 00-0730 LF 7" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.34 0.06 0.14	5.46
22 07 19 00-0731 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.04 0.06 0.14	5.59
22 07 19 00-0732 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.59 0.06 0.15	5.68
22 07 19 00-0733 LF 8" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.37 0.06 0.16	5.78
22 07 19 00-0734 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.10 0.07 0.17	5.87
22 07 19 00-0735 LF 9" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.08 0.07 0.17	6.02
22 07 19 00-0736 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.89 0.07 0.18	6.13
22 07 19 00-0737 LF 10" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.71 0.08 0.19	6.24
22 07 19 00-0738 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.53 0.08 0.20	6.35
22 07 19 00-0739 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.60 0.08 0.21	6.54
22 07 19 00-0740 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.50 0.09 0.22	6.66
22 07 19 00-0741 LF 12" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.38 0.09 0.23	6.79
22 07 19 00-0742 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.56 0.10 0.24	6.99
22 07 19 00-0743 LF 13" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.22 0.10 0.25	7.06
22 07 19 00-0744 LF 14" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.27 0.11 0.27	7.13
22 07 19 00-0745 LF 15" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.60 0.11 0.29	7.28
22 07 19 00-0746 LF 16" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.67 0.12 0.31	7.36
22 07 19 00-0747 LF 17" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.04 0.13 0.32	7.51
22 07 19 00-0748 LF 18" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.88 0.13 0.34	7.60
22 07 19 00-0749 LF 19" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.54 0.14 0.36	7.76
22 07 19 00-0750 LF 20" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.66 0.15 0.38	7.85
22 07 19 00-0751 LF 21" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.13 0.16 0.40	8.03
22 07 19 00-0752 LF 22" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.24 0.17 0.42	8.12
22 07 19 00-0753 LF 23" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.77 0.17 0.44	8.33
22 07 19 00-0754 LF 24" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.91 0.18 0.46	8.42

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0755		<b>32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands</b> <small>(22 07 19 00-0595)</small>		
22 07 19 00-0756	LF	1/2" ID, 0.032" Aluminum Insulation Jacketing .....	14.93	3.52
		<i>For Stucco Embossed, Add</i> .....	0.01	
		<i>For Corrugated, Add</i> .....	0.02	
22 07 19 00-0757	LF	3/4" ID, 0.032" Aluminum Insulation Jacketing .....	15.50	3.60
		<i>For Stucco Embossed, Add</i> .....	0.01	
		<i>For Corrugated, Add</i> .....	0.03	
22 07 19 00-0758	LF	1" ID, 0.032" Aluminum Insulation Jacketing .....	16.08	3.69
		<i>For Stucco Embossed, Add</i> .....	0.01	
		<i>For Corrugated, Add</i> .....	0.03	
22 07 19 00-0759	LF	1-1/4" ID, 0.032" Aluminum Insulation Jacketing .....	16.69	3.78
		<i>For Stucco Embossed, Add</i> .....	0.02	
		<i>For Corrugated, Add</i> .....	0.04	
22 07 19 00-0760	LF	1-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	17.17	3.83
		<i>For Stucco Embossed, Add</i> .....	0.02	
		<i>For Corrugated, Add</i> .....	0.05	
22 07 19 00-0761	LF	1-3/4" ID, 0.032" Aluminum Insulation Jacketing .....	17.65	3.89
		<i>For Stucco Embossed, Add</i> .....	0.02	
		<i>For Corrugated, Add</i> .....	0.05	
22 07 19 00-0762	LF	2" ID, 0.032" Aluminum Insulation Jacketing .....	18.22	3.97
		<i>For Stucco Embossed, Add</i> .....	0.02	
		<i>For Corrugated, Add</i> .....	0.06	
22 07 19 00-0763	LF	2-1/4" ID, 0.032" Aluminum Insulation Jacketing .....	18.79	4.05
		<i>For Stucco Embossed, Add</i> .....	0.03	
		<i>For Corrugated, Add</i> .....	0.06	
22 07 19 00-0764	LF	2-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	19.42	4.14
		<i>For Stucco Embossed, Add</i> .....	0.03	
		<i>For Corrugated, Add</i> .....	0.07	
22 07 19 00-0765	LF	2-3/4" ID, 0.032" Aluminum Insulation Jacketing .....	19.94	4.21
		<i>For Stucco Embossed, Add</i> .....	0.03	
		<i>For Corrugated, Add</i> .....	0.08	
22 07 19 00-0766	LF	3" ID, 0.032" Aluminum Insulation Jacketing .....	20.59	4.30
		<i>For Stucco Embossed, Add</i> .....	0.03	
		<i>For Corrugated, Add</i> .....	0.08	
22 07 19 00-0767	LF	3-1/4" ID, 0.032" Aluminum Insulation Jacketing .....	21.24	4.40
		<i>For Stucco Embossed, Add</i> .....	0.04	
		<i>For Corrugated, Add</i> .....	0.09	
22 07 19 00-0768	LF	3-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	21.90	4.50
		<i>For Stucco Embossed, Add</i> .....	0.04	
		<i>For Corrugated, Add</i> .....	0.10	
22 07 19 00-0769	LF	3-3/4" ID, 0.032" Aluminum Insulation Jacketing .....	22.45	4.58
		<i>For Stucco Embossed, Add</i> .....	0.04	
		<i>For Corrugated, Add</i> .....	0.10	
22 07 19 00-0770	LF	4" ID, 0.032" Aluminum Insulation Jacketing .....	23.15	4.70
		<i>For Stucco Embossed, Add</i> .....	0.04	
		<i>For Corrugated, Add</i> .....	0.11	
22 07 19 00-0771	LF	4-1/4" ID, 0.032" Aluminum Insulation Jacketing .....	23.86	4.82
		<i>For Stucco Embossed, Add</i> .....	0.05	
		<i>For Corrugated, Add</i> .....	0.12	
22 07 19 00-0772	LF	4-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	24.64	4.94
		<i>For Stucco Embossed, Add</i> .....	0.05	
		<i>For Corrugated, Add</i> .....	0.12	
22 07 19 00-0773	LF	4-3/4" ID, 0.032" Aluminum Insulation Jacketing .....	25.27	5.03
		<i>For Stucco Embossed, Add</i> .....	0.05	
		<i>For Corrugated, Add</i> .....	0.13	
22 07 19 00-0774	LF	5" ID, 0.032" Aluminum Insulation Jacketing .....	26.04	5.17
		<i>For Stucco Embossed, Add</i> .....	0.05	
		<i>For Corrugated, Add</i> .....	0.13	
22 07 19 00-0775	LF	5-1/4" ID, 0.032" Aluminum Insulation Jacketing .....	26.87	5.31
		<i>For Stucco Embossed, Add</i> .....	0.06	
		<i>For Corrugated, Add</i> .....	0.14	
22 07 19 00-0776	LF	5-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	27.56	5.42
		<i>For Stucco Embossed, Add</i> .....	0.06	
		<i>For Corrugated, Add</i> .....	0.15	
22 07 19 00-0777	LF	5-3/4" ID, 0.032" Aluminum Insulation Jacketing .....	28.46	5.57
		<i>For Stucco Embossed, Add</i> .....	0.06	
		<i>For Corrugated, Add</i> .....	0.15	
22 07 19 00-0778	LF	6" ID, 0.032" Aluminum Insulation Jacketing .....	29.38	5.74
		<i>For Stucco Embossed, Add</i> .....	0.06	
		<i>For Corrugated, Add</i> .....	0.16	
22 07 19 00-0779	LF	6-1/4" ID, 0.032" Aluminum Insulation Jacketing .....	29.97	5.82
		<i>For Stucco Embossed, Add</i> .....	0.07	
		<i>For Corrugated, Add</i> .....	0.17	
22 07 19 00-0780	LF	6-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	30.56	5.91
		<i>For Stucco Embossed, Add</i> .....	0.07	
		<i>For Corrugated, Add</i> .....	0.17	
22 07 19 00-0781	LF	7" ID, 0.032" Aluminum Insulation Jacketing .....	31.59	6.05
		<i>For Stucco Embossed, Add</i> .....	0.07	
		<i>For Corrugated, Add</i> .....	0.18	
22 07 19 00-0782	LF	7-1/4" ID, 0.032" Aluminum Insulation Jacketing .....	32.42	6.19
		<i>For Stucco Embossed, Add</i> .....	0.08	
		<i>For Corrugated, Add</i> .....	0.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0783 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.07 0.08 0.20	6.29
22 07 19 00-0784 LF 8" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.00 0.08 0.21	6.40
22 07 19 00-0785 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.91 0.09 0.22	6.51
22 07 19 00-0786 LF 9" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.08 0.09 0.23	6.68
22 07 19 00-0787 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.07 0.10 0.25	6.80
22 07 19 00-0788 LF 10" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.06 0.10 0.26	6.92
22 07 19 00-0789 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.04 0.11 0.27	7.04
22 07 19 00-0790 LF 11" ID, 0.0106 Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.34 0.11 0.28	7.24
22 07 19 00-0791 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.42 0.12 0.30	7.38
22 07 19 00-0792 LF 12" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.48 0.12 0.31	7.52
22 07 19 00-0793 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	43.89 0.13 0.32	7.74
22 07 19 00-0794 LF 13" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.69 0.13 0.33	7.82
22 07 19 00-0795 LF 14" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.04 0.14 0.36	7.90
22 07 19 00-0796 LF 15" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.69 0.15 0.39	8.07
22 07 19 00-0797 LF 16" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	49.05 0.16 0.41	8.15
22 07 19 00-0798 LF 17" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.74 0.17 0.44	8.33
22 07 19 00-0799 LF 18" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.79 0.18 0.45	8.42
22 07 19 00-0800 LF 19" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	53.87 0.19 0.49	8.61
22 07 19 00-0801 LF 20" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	55.28 0.20 0.51	8.71
22 07 19 00-0802 LF 21" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	57.06 0.21 0.54	8.91
22 07 19 00-0803 LF 22" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	58.48 0.22 0.56	9.01
22 07 19 00-0804 LF 23" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.36 0.23 0.59	9.22
22 07 19 00-0805 LF 24" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	61.79 0.24 0.61	9.33
<b>22 07 19 00-0806 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0595)</b>		
22 07 19 00-0807 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.25 0.01 0.03	4.05
22 07 19 00-0808 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.94 0.01 0.03	4.14
22 07 19 00-0809 LF 1" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.64 0.02 0.04	4.24
22 07 19 00-0810 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.36 0.02 0.05	4.34

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0811	LF	1-1/2" ID, 0.040" Aluminum Insulation Jacketing	19.95	4.41
		<i>For Stucco Embossed, Add</i>	0.02	
		<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0812	LF	1-3/4" ID, 0.040" Aluminum Insulation Jacketing	20.52	4.47
		<i>For Stucco Embossed, Add</i>	0.03	
		<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0813	LF	2" ID, 0.040" Aluminum Insulation Jacketing	21.20	4.56
		<i>For Stucco Embossed, Add</i>	0.03	
		<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0814	LF	2-1/4" ID, 0.040" Aluminum Insulation Jacketing	21.89	4.67
		<i>For Stucco Embossed, Add</i>	0.03	
		<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0815	LF	2-1/2" ID, 0.040" Aluminum Insulation Jacketing	22.64	4.77
		<i>For Stucco Embossed, Add</i>	0.04	
		<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0816	LF	2-3/4" ID, 0.040" Aluminum Insulation Jacketing	23.27	4.85
		<i>For Stucco Embossed, Add</i>	0.04	
		<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0817	LF	3" ID, 0.040" Aluminum Insulation Jacketing	24.04	4.95
		<i>For Stucco Embossed, Add</i>	0.04	
		<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0818	LF	3-1/4" ID, 0.040" Aluminum Insulation Jacketing	24.80	5.07
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0819	LF	3-1/2" ID, 0.040" Aluminum Insulation Jacketing	25.58	5.18
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0820	LF	3-3/4" ID, 0.040" Aluminum Insulation Jacketing	26.26	5.27
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.13	
22 07 19 00-0821	LF	4" ID, 0.040" Aluminum Insulation Jacketing	27.09	5.40
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0822	LF	4-1/4" ID, 0.040" Aluminum Insulation Jacketing	27.94	5.53
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0823	LF	4-1/2" ID, 0.040" Aluminum Insulation Jacketing	28.85	5.67
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0824	LF	4-3/4" ID, 0.040" Aluminum Insulation Jacketing	29.61	5.79
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0825	LF	5" ID, 0.040" Aluminum Insulation Jacketing	30.53	5.94
		<i>For Stucco Embossed, Add</i>	0.07	
		<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0826	LF	5-1/4" ID, 0.040" Aluminum Insulation Jacketing	31.49	6.10
		<i>For Stucco Embossed, Add</i>	0.07	
		<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0827	LF	5-1/2" ID, 0.040" Aluminum Insulation Jacketing	32.32	6.23
		<i>For Stucco Embossed, Add</i>	0.07	
		<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0828	LF	5-3/4" ID, 0.040" Aluminum Insulation Jacketing	33.38	6.41
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0829	LF	6" ID, 0.040" Aluminum Insulation Jacketing	34.45	6.60
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.20	
22 07 19 00-0830	LF	6-1/4" ID, 0.040" Aluminum Insulation Jacketing	35.16	6.70
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0831	LF	6-1/2" ID, 0.040" Aluminum Insulation Jacketing	35.89	6.81
		<i>For Stucco Embossed, Add</i>	0.09	
		<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0832	LF	7" ID, 0.040" Aluminum Insulation Jacketing	37.11	6.96
		<i>For Stucco Embossed, Add</i>	0.09	
		<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0833	LF	7-1/4" ID, 0.040" Aluminum Insulation Jacketing	38.09	7.13
		<i>For Stucco Embossed, Add</i>	0.10	
		<i>For Corrugated, Add</i>	0.24	
22 07 19 00-0834	LF	7-1/2" ID, 0.040" Aluminum Insulation Jacketing	38.86	7.25
		<i>For Stucco Embossed, Add</i>	0.10	
		<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0835	LF	8" ID, 0.040" Aluminum Insulation Jacketing	39.98	7.37
		<i>For Stucco Embossed, Add</i>	0.11	
		<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0836	LF	8-1/2" ID, 0.040" Aluminum Insulation Jacketing	41.08	7.49
		<i>For Stucco Embossed, Add</i>	0.11	
		<i>For Corrugated, Add</i>	0.28	
22 07 19 00-0837	LF	9" ID, 0.040" Aluminum Insulation Jacketing	42.48	7.68
		<i>For Stucco Embossed, Add</i>	0.12	
		<i>For Corrugated, Add</i>	0.29	
22 07 19 00-0838	LF	9-1/2" ID, 0.040" Aluminum Insulation Jacketing	43.68	7.81
		<i>For Stucco Embossed, Add</i>	0.12	
		<i>For Corrugated, Add</i>	0.31	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0839 LF 10" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.85 0.13 0.33	7.95
22 07 19 00-0840 LF 10-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.07 0.14 0.34	8.10
22 07 19 00-0841 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	47.59 0.14 0.36	8.33
22 07 19 00-0842 LF 11-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	48.88 0.15 0.37	8.49
22 07 19 00-0843 LF 12" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	50.17 0.16 0.39	8.65
22 07 19 00-0844 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	51.83 0.16 0.40	8.91
22 07 19 00-0845 LF 13" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	52.82 0.17 0.42	9.00
22 07 19 00-0846 LF 14" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	54.46 0.18 0.45	9.09
22 07 19 00-0847 LF 15" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	56.47 0.19 0.48	9.28
22 07 19 00-0848 LF 16" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	58.14 0.21 0.52	9.38
22 07 19 00-0849 LF 17" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	60.20 0.22 0.55	9.58
22 07 19 00-0850 LF 18" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	61.46 0.23 0.57	9.68
22 07 19 00-0851 LF 19" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	64.00 0.24 0.61	9.90
22 07 19 00-0852 LF 20" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	65.73 0.26 0.64	10.01
22 07 19 00-0853 LF 21" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	67.89 0.27 0.67	10.25
22 07 19 00-0854 LF 22" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	69.62 0.28 0.70	10.37
22 07 19 00-0855 LF 23" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	71.88 0.29 0.74	10.61
22 07 19 00-0856 LF 24" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	73.64 0.31 0.77	10.74

**22 07 19 00-0857 Aluminum Insulation Protective Jacketing For Fittings** (22 07 19 00-0595)

22 07 19 00-0858 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	22.81	4.16
22 07 19 00-0859 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	23.42	4.31
22 07 19 00-0860 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.69	4.48
22 07 19 00-0861 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	25.97	4.55
22 07 19 00-0862 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	26.26	4.63
22 07 19 00-0863 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	26.71	4.74
22 07 19 00-0864 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	27.84	4.86
22 07 19 00-0865 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	28.33	4.98
22 07 19 00-0866 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	30.21	5.07
22 07 19 00-0867 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	30.82	5.16
22 07 19 00-0868 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.86	5.30
22 07 19 00-0869 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	32.56	5.39
22 07 19 00-0870 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	32.97	5.49
22 07 19 00-0871 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	33.39	5.60
22 07 19 00-0872 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	35.23	5.71
22 07 19 00-0873 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	37.59	5.82
22 07 19 00-0874 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	41.82	6.00
22 07 19 00-0875 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	42.32	6.13
22 07 19 00-0876 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	40.50	6.33
22 07 19 00-0877 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	41.06	6.48
22 07 19 00-0878 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	45.06	6.70
22 07 19 00-0879 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	49.60	6.85
22 07 19 00-0880 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	49.92	6.94
22 07 19 00-0881 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	60.70	7.02
22 07 19 00-0882 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	52.74	7.10
22 07 19 00-0883 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing .....	74.08	7.28
22 07 19 00-0884 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	74.83	7.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0885 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.32	7.56
22 07 19 00-0886 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	63.73	7.66
22 07 19 00-0887 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	64.85	7.76
22 07 19 00-0888 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	65.27	7.87
22 07 19 00-0889 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	70.77	8.09
22 07 19 00-0890 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	71.22	8.20
22 07 19 00-0891 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	102.12	8.44
22 07 19 00-0892 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	102.62	8.57
22 07 19 00-0893 EA 14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	126.97	8.83
22 07 19 00-0894 EA 15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	132.24	9.10
22 07 19 00-0895 EA 16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	141.53	9.24
22 07 19 00-0896 EA 2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.90	4.63
22 07 19 00-0897 EA 2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	25.35	4.74
22 07 19 00-0898 EA 3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	26.67	4.86
22 07 19 00-0899 EA 3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.16	4.98
22 07 19 00-0900 EA 3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	28.53	5.07
22 07 19 00-0901 EA 3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.88	5.16
22 07 19 00-0902 EA 4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	29.58	5.30
22 07 19 00-0903 EA 4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	31.16	5.39
22 07 19 00-0904 EA 4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	31.57	5.49
22 07 19 00-0905 EA 4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	31.99	5.60
22 07 19 00-0906 EA 5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	34.10	5.71
22 07 19 00-0907 EA 5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	34.56	5.82
22 07 19 00-0908 EA 5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	35.83	6.00
22 07 19 00-0909 EA 6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	37.13	6.33
22 07 19 00-0910 EA 6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	43.09	6.70
22 07 19 00-0911 EA 7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	43.72	6.85
22 07 19 00-0912 EA 7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	44.53	7.02
22 07 19 00-0913 EA 8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	44.87	7.10
22 07 19 00-0914 EA 8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	49.59	7.28
22 07 19 00-0915 EA 9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	50.34	7.47
22 07 19 00-0916 EA 9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	58.67	7.56
22 07 19 00-0917 EA 10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	59.08	7.66
22 07 19 00-0918 EA 10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	57.64	7.76
22 07 19 00-0919 EA 11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	58.06	7.87
22 07 19 00-0920 EA 11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	64.29	8.09
22 07 19 00-0921 EA 12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	64.74	8.20
22 07 19 00-0922 EA 13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	71.74	8.57
22 07 19 00-0923 EA 14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	81.29	8.83
22 07 19 00-0924 EA 15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	107.25	9.10
22 07 19 00-0925 EA 16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	113.79	9.24
22 07 19 00-0926 EA 17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	112.57	9.39
22 07 19 00-0927 EA 18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	123.74	9.55
22 07 19 00-0928 EA 19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	143.33	9.70
22 07 19 00-0929 EA 20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	140.56	9.87
22 07 19 00-0930 EA 21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	149.28	10.04
22 07 19 00-0931 EA 2-1/2" ID, Aluminum Tee Insulation Jacketing.....	70.51	6.62
22 07 19 00-0932 EA 2-3/4" ID, Aluminum Tee Insulation Jacketing.....	71.13	6.78
22 07 19 00-0933 EA 3" ID, Aluminum Tee Insulation Jacketing.....	77.49	6.94
22 07 19 00-0934 EA 3-1/4" ID, Aluminum Tee Insulation Jacketing.....	78.17	7.10
22 07 19 00-0935 EA 3-1/2" ID Aluminum Tee Insulation Jacketing.....	81.26	7.28
22 07 19 00-0936 EA 4" ID, Aluminum Tee Insulation Jacketing.....	82.58	7.47
22 07 19 00-0937 EA 4-1/4" ID, Aluminum Tee Insulation Jacketing.....	86.41	7.66
22 07 19 00-0938 EA 4-1/2" ID, Aluminum Tee Insulation Jacketing.....	86.77	7.87
22 07 19 00-0939 EA 4-3/4" ID, Aluminum Tee Insulation Jacketing.....	87.65	8.09
22 07 19 00-0940 EA 5" ID, Aluminum Tee Insulation Jacketing.....	90.64	8.33
22 07 19 00-0941 EA 5-1/4" ID, Aluminum Tee Insulation Jacketing.....	91.62	8.57
22 07 19 00-0942 EA 5-1/2" ID, Aluminum Tee Insulation Jacketing.....	95.20	8.83
22 07 19 00-0943 EA 6" ID, Aluminum Tee Insulation Jacketing.....	96.30	9.10
22 07 19 00-0944 EA 6-1/2" ID, Aluminum Tee Insulation Jacketing.....	104.62	9.70
22 07 19 00-0945 EA 7" ID, Aluminum Tee Insulation Jacketing.....	105.96	10.04
22 07 19 00-0946 EA 7-1/2" ID, Aluminum Tee Insulation Jacketing.....	114.76	10.40
22 07 19 00-0947 EA 8" ID, Aluminum Tee Insulation Jacketing.....	116.31	10.79
22 07 19 00-0948 EA 8-1/2" ID, Aluminum Tee Insulation Jacketing.....	119.89	11.20
22 07 19 00-0949 EA 9" ID, Aluminum Tee Insulation Jacketing.....	121.68	11.64
22 07 19 00-0950 EA 9-1/2" ID, Aluminum Tee Insulation Jacketing.....	103.28	11.88
22 07 19 00-0951 EA 10" ID, Aluminum Tee Insulation Jacketing.....	104.26	12.14
22 07 19 00-0952 EA 10-1/2" ID, Aluminum Tee Insulation Jacketing.....	108.93	12.39
22 07 19 00-0953 EA 11" ID, Aluminum Tee Insulation Jacketing.....	110.01	12.66
22 07 19 00-0954 EA 11-1/2" ID, Aluminum Tee Insulation Jacketing.....	114.37	12.94
22 07 19 00-0955 EA 12" ID, Aluminum Tee Insulation Jacketing.....	115.55	13.23
22 07 19 00-0956 EA 13" ID, Aluminum Tee Insulation Jacketing.....	119.90	13.54
22 07 19 00-0957 EA 14" ID, Aluminum Tee Insulation Jacketing.....	124.41	13.87
22 07 19 00-0958 EA 15" ID, Aluminum Tee Insulation Jacketing.....	131.38	14.21
22 07 19 00-0959 EA 16" ID, Aluminum Tee Insulation Jacketing.....	134.67	14.56
22 07 19 00-0960 EA 17" ID, Aluminum Tee Insulation Jacketing.....	147.61	14.93
22 07 19 00-0961 EA 18" ID, Aluminum Tee Insulation Jacketing.....	152.59	15.32
22 07 19 00-0962 EA 19" ID, Aluminum Tee Insulation Jacketing.....	163.92	15.75
22 07 19 00-0963 EA 20" ID, Aluminum Tee Insulation Jacketing.....	167.87	16.18
22 07 19 00-0964 EA 22" ID, Aluminum Tee Insulation Jacketing.....	197.79	16.64
22 07 19 00-0965 EA 23" ID, Aluminum Tee Insulation Jacketing.....	203.40	17.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0966 EA 24" ID, Aluminum Tee Insulation Jacketing .....	213.54	18.79
<b>22 07 19 00-0967 Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0594)</b>		
<b>22 07 19 00-0968 Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0967)</b>		
22 07 19 00-0969 SF 0.010" Stainless Steel Insulation Jacket With Bands .....	27.11	10.92
22 07 19 00-0970 SF 0.016" Stainless Steel Insulation Jacket With Bands .....	33.23	13.10
<b>22 07 19 00-0971 10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)</b>		
22 07 19 00-0972 LF 2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....	13.22	2.33
22 07 19 00-0973 LF 2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing .....	13.75	2.37
22 07 19 00-0974 LF 3" ID, 0.010" Stainless Steel Insulation Jacketing .....	14.29	2.42
22 07 19 00-0975 LF 3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing .....	14.85	2.48
22 07 19 00-0976 LF 3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....	15.42	2.53
22 07 19 00-0977 LF 3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing .....	15.99	2.58
22 07 19 00-0978 LF 4" ID, 0.010" Stainless Steel Insulation Jacketing .....	16.57	2.64
22 07 19 00-0979 LF 4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing .....	17.16	2.70
22 07 19 00-0980 LF 4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....	17.76	2.78
22 07 19 00-0981 LF 5" ID, 0.010" Stainless Steel Insulation Jacketing .....	19.01	2.92
22 07 19 00-0982 LF 5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....	20.32	3.07
22 07 19 00-0983 LF 6" ID, 0.010" Stainless Steel Insulation Jacketing .....	21.68	3.24
22 07 19 00-0984 LF 6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....	22.74	3.33
22 07 19 00-0985 LF 7" ID, 0.010" Stainless Steel Insulation Jacketing .....	23.84	3.43
22 07 19 00-0986 LF 7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....	25.03	3.55
22 07 19 00-0987 LF 8" ID, 0.010" Stainless Steel Insulation Jacketing .....	25.98	3.62
22 07 19 00-0988 LF 8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....	26.95	3.69
22 07 19 00-0989 LF 9" ID, 0.010" Stainless Steel Insulation Jacketing .....	27.93	3.76
22 07 19 00-0990 LF 9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....	28.91	3.83
22 07 19 00-0991 LF 10" ID, 0.010" Stainless Steel Insulation Jacketing .....	29.92	3.91
22 07 19 00-0992 LF 10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing .....	30.94	3.99
22 07 19 00-0993 LF 11" ID, 0.010" Stainless Steel Insulation Jacketing .....	31.96	4.07
22 07 19 00-0994 LF 12" ID, 0.010" Stainless Steel Insulation Jacketing .....	34.05	4.25
22 07 19 00-0995 LF 13" ID, 0.010" Stainless Steel Insulation Jacketing .....	36.09	4.41
22 07 19 00-0996 LF 14" ID, 0.010" Stainless Steel Insulation Jacketing .....	37.74	4.48
<b>22 07 19 00-0997 16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0967)</b>		
22 07 19 00-0998 LF 2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	18.05	3.10
22 07 19 00-0999 LF 2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing .....	18.80	3.16
22 07 19 00-1000 LF 3" ID, 0.016" Stainless Steel Insulation Jacketing .....	19.56	3.23
22 07 19 00-1001 LF 3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing .....	20.35	3.30
22 07 19 00-1002 LF 3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	21.14	3.37
22 07 19 00-1003 LF 3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing .....	21.95	3.44
22 07 19 00-1004 LF 4" ID, 0.016" Stainless Steel Insulation Jacketing .....	22.76	3.52
22 07 19 00-1005 LF 4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing .....	23.58	3.60
22 07 19 00-1006 LF 4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	24.41	3.69
22 07 19 00-1007 LF 5" ID, 0.016" Stainless Steel Insulation Jacketing .....	26.17	3.87
22 07 19 00-1008 LF 5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	27.99	4.07
22 07 19 00-1009 LF 6" ID, 0.016" Stainless Steel Insulation Jacketing .....	29.89	4.30
22 07 19 00-1010 LF 6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	31.39	4.42
22 07 19 00-1011 LF 7" ID, 0.016" Stainless Steel Insulation Jacketing .....	32.93	4.55
22 07 19 00-1012 LF 7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	34.58	4.73
22 07 19 00-1013 LF 8" ID, 0.016" Stainless Steel Insulation Jacketing .....	35.93	4.82
22 07 19 00-1014 LF 8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	37.30	4.91
22 07 19 00-1015 LF 9" ID, 0.016" Stainless Steel Insulation Jacketing .....	38.70	5.00
22 07 19 00-1016 LF 9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	40.09	5.10
22 07 19 00-1017 LF 10" ID, 0.016" Stainless Steel Insulation Jacketing .....	41.50	5.20
22 07 19 00-1018 LF 10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing .....	42.96	5.31
22 07 19 00-1019 LF 11" ID, 0.016" Stainless Steel Insulation Jacketing .....	44.39	5.42
22 07 19 00-1020 LF 12" ID, 0.016" Stainless Steel Insulation Jacketing .....	47.33	5.65
22 07 19 00-1021 LF 13" ID, 0.016" Stainless Steel Insulation Jacketing .....	50.22	5.87
22 07 19 00-1022 LF 14" ID, 0.016" Stainless Steel Insulation Jacketing .....	52.57	5.96
<b>22 07 19 00-1023 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00-0967)</b>		
22 07 19 00-1024 EA 2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	35.70	4.63
22 07 19 00-1025 EA 2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	36.15	4.74
22 07 19 00-1026 EA 3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	37.42	4.86
22 07 19 00-1027 EA 3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	37.91	4.98
22 07 19 00-1028 EA 3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	39.17	5.07
22 07 19 00-1029 EA 3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	40.59	5.16
22 07 19 00-1030 EA 4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	43.14	5.30
22 07 19 00-1031 EA 4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	50.76	5.39
22 07 19 00-1032 EA 4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	51.17	5.49
22 07 19 00-1033 EA 5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing .....	52.71	5.71



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 19 00-1034	EA		5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	68.54	6.00
22 07 19 00-1035	EA		6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	74.19	6.33
22 07 19 00-1036	EA		6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	94.05	6.70
22 07 19 00-1037	EA		7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	94.68	6.85
22 07 19 00-1038	EA		7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	106.62	7.02
22 07 19 00-1039	EA		8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	107.67	7.28
22 07 19 00-1040	EA		8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	110.34	7.28
22 07 19 00-1041	EA		9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	153.41	7.47
22 07 19 00-1042	EA		9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	151.64	7.56
22 07 19 00-1043	EA		10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	152.05	7.66
22 07 19 00-1044	EA		10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	176.30	7.76
22 07 19 00-1045	EA		11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	170.13	7.87
22 07 19 00-1046	EA		12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	190.21	8.20
22 07 19 00-1047	EA		13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	252.34	8.57
22 07 19 00-1048	EA		14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	254.85	8.83
22 07 19 00-1049	EA		2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	32.84	4.63
22 07 19 00-1050	EA		2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	33.29	4.74
22 07 19 00-1051	EA		3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	34.86	4.86
22 07 19 00-1052	EA		3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	35.35	4.98
22 07 19 00-1053	EA		3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	35.89	5.07
22 07 19 00-1054	EA		3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	36.24	5.16
22 07 19 00-1055	EA		4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	41.27	5.30
22 07 19 00-1056	EA		4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	49.77	5.39
22 07 19 00-1057	EA		4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	50.18	5.49
22 07 19 00-1058	EA		4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	50.60	5.60
22 07 19 00-1059	EA		5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	51.52	5.71
22 07 19 00-1060	EA		5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	52.70	6.00
22 07 19 00-1061	EA		6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	59.35	6.33
22 07 19 00-1062	EA		6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	60.81	6.70
22 07 19 00-1063	EA		7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	84.99	6.85
22 07 19 00-1064	EA		7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	86.83	7.02
22 07 19 00-1065	EA		8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	87.17	7.10
22 07 19 00-1066	EA		8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	97.88	7.28
22 07 19 00-1067	EA		9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	98.63	7.47
22 07 19 00-1068	EA		9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	110.98	7.56
22 07 19 00-1069	EA		10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	111.39	7.66
22 07 19 00-1070	EA		10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	128.08	7.76
22 07 19 00-1071	EA		11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	128.50	7.87
22 07 19 00-1072	EA		12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	138.17	8.20
22 07 19 00-1073	EA		13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	158.24	8.57

22 07 19 00-1074 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0594)

22 07 19 00-1075 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)

22 07 19 00-1076	LF		1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.31	2.16
22 07 19 00-1077	LF		2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.20	2.24
22 07 19 00-1078	LF		2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.98	2.33
22 07 19 00-1079	LF		3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.92	2.42
22 07 19 00-1080	LF		3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.77	2.53
22 07 19 00-1081	LF		4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.72	2.64
22 07 19 00-1082	LF		4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.71	2.78
22 07 19 00-1083	LF		5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	16.68	2.92
22 07 19 00-1084	LF		5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	17.79	3.07
22 07 19 00-1085	LF		6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	18.96	3.24
22 07 19 00-1086	LF		6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	19.82	3.33
22 07 19 00-1087	LF		7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	20.63	3.43
22 07 19 00-1088	LF		7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	21.70	3.55
22 07 19 00-1089	LF		8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	22.38	3.62
22 07 19 00-1090	LF		8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	23.15	3.69
22 07 19 00-1091	LF		9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	23.92	3.76
22 07 19 00-1092	LF		9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	24.70	3.83
22 07 19 00-1093	LF		10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	25.44	3.91
22 07 19 00-1094	LF		10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	26.25	3.99
22 07 19 00-1095	LF		11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	27.07	4.07
22 07 19 00-1096	LF		11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	27.91	4.16
22 07 19 00-1097	LF		12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	28.69	4.25
22 07 19 00-1098	LF		12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	29.63	4.34
22 07 19 00-1099	LF		13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	30.31	4.41
22 07 19 00-1100	LF		13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	30.80	4.41
22 07 19 00-1101	LF		14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	31.56	4.48
22 07 19 00-1102	LF		15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	32.82	4.55
22 07 19 00-1103	LF		16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	34.02	4.63
22 07 19 00-1104	LF		17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	35.30	4.70
22 07 19 00-1105	LF		18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	36.58	4.78
22 07 19 00-1106	LF		19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	37.82	4.86
22 07 19 00-1107	LF		20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	39.13	4.94
22 07 19 00-1108	LF		21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	40.37	5.02
22 07 19 00-1109	LF		22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	41.70	5.11
22 07 19 00-1110	LF		23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	42.98	5.20
22 07 19 00-1111	LF		24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	44.34	5.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1112 LF 25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	45.71	5.39
22 07 19 00-1113 LF 26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	47.03	5.49
22 07 19 00-1114 LF 27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	48.43	5.60
22 07 19 00-1115 LF 28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	49.78	5.71
22 07 19 00-1116 LF 29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	51.22	5.82
22 07 19 00-1117 LF 30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing .....	52.67	5.94
<b>22 07 19 00-1118 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-1074)</b>		
22 07 19 00-1119 LF 2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	12.25	2.24
22 07 19 00-1120 LF 2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.31	2.33
22 07 19 00-1121 LF 3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.46	2.42
22 07 19 00-1122 LF 3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.52	2.53
22 07 19 00-1123 LF 4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.68	2.64
22 07 19 00-1124 LF 4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	17.88	2.78
22 07 19 00-1125 LF 5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	19.13	2.92
22 07 19 00-1126 LF 5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	20.45	3.07
22 07 19 00-1127 LF 6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	21.83	3.24
22 07 19 00-1128 LF 6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	22.90	3.33
22 07 19 00-1129 LF 7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	23.99	3.43
22 07 19 00-1130 LF 7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	25.27	3.55
22 07 19 00-1131 LF 8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	26.23	3.62
22 07 19 00-1132 LF 8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	27.21	3.69
22 07 19 00-1133 LF 9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	28.18	3.76
22 07 19 00-1134 LF 9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	29.17	3.83
22 07 19 00-1135 LF 10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	30.19	3.91
22 07 19 00-1136 LF 10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	31.21	3.99
22 07 19 00-1137 LF 11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	32.24	4.07
22 07 19 00-1138 LF 11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	33.29	4.16
22 07 19 00-1139 LF 12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	34.35	4.25
22 07 19 00-1140 LF 12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	35.50	4.34
22 07 19 00-1141 LF 13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	36.47	4.41
22 07 19 00-1142 LF 13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	37.17	4.41
22 07 19 00-1143 LF 14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	38.14	4.48
22 07 19 00-1144 LF 15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	39.82	4.55
22 07 19 00-1145 LF 16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	41.51	4.63
22 07 19 00-1146 LF 17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	43.21	4.70
22 07 19 00-1147 LF 18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	44.98	4.78
22 07 19 00-1148 LF 19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	46.71	4.86
22 07 19 00-1149 LF 20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	48.44	4.94
22 07 19 00-1150 LF 21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	50.17	5.02
22 07 19 00-1151 LF 22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	51.92	5.11
22 07 19 00-1152 LF 23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	53.69	5.20
22 07 19 00-1153 LF 24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	55.47	5.30
22 07 19 00-1154 LF 25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	57.33	5.39
22 07 19 00-1155 LF 26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	59.14	5.49
22 07 19 00-1156 LF 27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	60.95	5.60
22 07 19 00-1157 LF 28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	62.79	5.71
22 07 19 00-1158 LF 29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	64.65	5.82
22 07 19 00-1159 LF 30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	66.52	5.94
<b>22 07 19 00-1160 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-1074)</b>		
22 07 19 00-1161 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	21.10	4.31
22 07 19 00-1162 EA 2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	22.68	4.48
22 07 19 00-1163 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	23.52	4.55
22 07 19 00-1164 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	24.37	4.63
22 07 19 00-1165 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	25.31	4.74
22 07 19 00-1166 EA 3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	26.14	4.86
22 07 19 00-1167 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	27.71	5.02
22 07 19 00-1168 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	29.15	5.16
22 07 19 00-1169 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	31.96	5.30
22 07 19 00-1170 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	35.20	5.55
22 07 19 00-1171 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	38.48	5.82
22 07 19 00-1172 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	44.53	6.13
22 07 19 00-1173 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	59.26	6.48
22 07 19 00-1174 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	61.91	6.70
22 07 19 00-1175 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	71.42	6.85
22 07 19 00-1176 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	74.25	7.02
22 07 19 00-1177 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	88.53	7.28
22 07 19 00-1178 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	109.60	7.56
22 07 19 00-1179 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	120.06	7.87
22 07 19 00-1180 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	134.34	8.20
22 07 19 00-1181 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	162.45	8.57
22 07 19 00-1182 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	181.82	8.83
22 07 19 00-1183 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	193.84	9.10
22 07 19 00-1184 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	208.83	9.24
22 07 19 00-1185 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	228.24	9.39
22 07 19 00-1186 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	284.14	9.55
22 07 19 00-1187 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	372.74	9.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1188 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing.....	468.63	9.87
22 07 19 00-1189 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	21.10	4.31
22 07 19 00-1190 EA 2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	22.68	4.48
22 07 19 00-1191 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	23.52	4.55
22 07 19 00-1192 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	24.37	4.63
22 07 19 00-1193 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	25.31	4.74
22 07 19 00-1194 EA 3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	26.14	4.86
22 07 19 00-1195 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	27.71	5.02
22 07 19 00-1196 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	29.15	5.16
22 07 19 00-1197 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	31.96	5.30
22 07 19 00-1198 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	35.20	5.55
22 07 19 00-1199 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	38.48	5.82
22 07 19 00-1200 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	44.53	6.13
22 07 19 00-1201 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	59.26	6.48
22 07 19 00-1202 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	61.91	6.70
22 07 19 00-1203 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	71.42	6.85
22 07 19 00-1204 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	74.25	7.02
22 07 19 00-1205 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	88.53	7.28
22 07 19 00-1206 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	109.60	7.56
22 07 19 00-1207 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	119.99	7.87
22 07 19 00-1208 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	130.42	8.20
22 07 19 00-1209 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	143.21	8.57
22 07 19 00-1210 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	159.78	8.83
22 07 19 00-1211 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	169.98	9.10
22 07 19 00-1212 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	189.52	9.24
22 07 19 00-1213 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	209.35	9.39
22 07 19 00-1214 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	248.11	9.55
22 07 19 00-1215 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	325.16	9.70
22 07 19 00-1216 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	363.81	9.87
22 07 19 00-1217 EA 1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	31.55	6.06
22 07 19 00-1218 EA 2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	33.05	6.19
22 07 19 00-1219 EA 2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	34.56	6.40
22 07 19 00-1220 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	36.27	6.62
22 07 19 00-1221 EA 2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	38.19	6.85
22 07 19 00-1222 EA 3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	40.10	7.10
22 07 19 00-1223 EA 3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	42.92	7.37
22 07 19 00-1224 EA 3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	45.91	7.66
22 07 19 00-1225 EA 4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	49.96	7.98
22 07 19 00-1226 EA 4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	55.74	8.33
22 07 19 00-1227 EA 5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	61.78	8.70
22 07 19 00-1228 EA 5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	72.88	9.24
22 07 19 00-1229 EA 6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	85.99	9.70
22 07 19 00-1230 EA 6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	97.85	9.87
22 07 19 00-1231 EA 7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	135.19	10.22
22 07 19 00-1232 EA 7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	146.57	10.79
22 07 19 00-1233 EA 8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	170.61	11.20
22 07 19 00-1234 EA 9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	194.93	11.64
22 07 19 00-1235 EA 10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	198.62	12.14
22 07 19 00-1236 EA 11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	216.31	12.39
22 07 19 00-1237 EA 12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	234.05	12.66
22 07 19 00-1238 EA 14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	251.96	12.94
22 07 19 00-1239 EA 15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	269.72	13.23
22 07 19 00-1240 EA 16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	287.68	13.54
22 07 19 00-1241 EA 17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	305.48	13.87
22 07 19 00-1242 EA 18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	332.02	14.21
22 07 19 00-1243 EA 19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	358.49	14.56
22 07 19 00-1244 EA 20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	390.57	14.93
22 07 19 00-1245 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	47.08	4.16
22 07 19 00-1246 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	47.08	4.16
22 07 19 00-1247 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	55.80	4.31
22 07 19 00-1248 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	55.80	4.31
22 07 19 00-1249 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	78.73	4.48
22 07 19 00-1250 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	86.16	4.66
22 07 19 00-1251 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	95.06	4.86
22 07 19 00-1252 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	107.80	5.07
22 07 19 00-1253 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	118.72	5.30
22 07 19 00-1254 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	144.56	5.82
22 07 19 00-1255 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	205.01	6.48
22 07 19 00-1256 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	224.20	7.28
22 07 19 00-1257 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	280.65	7.76
22 07 19 00-1258 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	393.22	8.57
22 07 19 00-1259 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	395.44	8.96
22 07 19 00-1260 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	526.01	9.24
22 07 19 00-1261 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	710.76	9.55
22 07 19 00-1262 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	43.72	4.16
22 07 19 00-1263 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	43.72	4.16
22 07 19 00-1264 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	51.75	4.31
22 07 19 00-1265 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	51.75	4.31
22 07 19 00-1266 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	72.08	4.48
22 07 19 00-1267 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	78.75	4.66
22 07 19 00-1268 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	86.94	4.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1269 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	91.49	5.07
22 07 19 00-1270 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	107.95	5.30
22 07 19 00-1271 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	131.20	5.82
22 07 19 00-1272 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	185.35	6.48
22 07 19 00-1273 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	202.65	7.28
22 07 19 00-1274 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	253.22	7.76
22 07 19 00-1275 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	353.96	8.57
22 07 19 00-1276 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	451.69	8.96
22 07 19 00-1277 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	540.78	9.24
22 07 19 00-1278 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	632.81	9.55
22 07 19 00-1279 EA 3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	64.72	6.26
22 07 19 00-1280 EA 1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	64.72	6.26
22 07 19 00-1281 EA 1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	75.98	6.48
22 07 19 00-1282 EA 1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	75.98	6.48
22 07 19 00-1283 EA 2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	105.78	6.70
22 07 19 00-1284 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	115.61	6.94
22 07 19 00-1285 EA 3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	127.43	7.28
22 07 19 00-1286 EA 3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	134.44	7.56
22 07 19 00-1287 EA 4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	159.12	7.98
22 07 19 00-1288 EA 5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	174.92	8.70
22 07 19 00-1289 EA 6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	246.16	9.70
22 07 19 00-1290 EA 8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	267.90	10.79
22 07 19 00-1291 EA 10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	371.12	11.64
22 07 19 00-1292 EA 12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	517.15	12.66
22 07 19 00-1293 EA 14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	617.66	13.54
22 07 19 00-1294 EA 16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	731.40	13.87
22 07 19 00-1295 EA 18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing.....	801.46	14.21

## 22 10 Plumbing Piping <sup>(22)</sup>

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

### 22 11 Facility Water Distribution <sup>(22 10)</sup>

#### 22 11 16 Domestic Water Piping <sup>(22 11)</sup>

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.

#### 22 11 16 00-0001

##### Galvanized Steel Pipe Assemblies <sup>(22 11 16)</sup>

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Includes cutting and threading to length where necessary. Not for use where detail is available.

22 11 16 00-0002	LF	1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	24.77	5.64
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	6.47	
		<i>For ASTM 120, Deduct</i>	-0.91	
		<i>For Work In Restricted Working Space, Add</i>	5.61	
22 11 16 00-0003	LF	3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	27.32	6.06
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	7.35	
		<i>For ASTM 120, Deduct</i>	-1.13	
		<i>For Work In Restricted Working Space, Add</i>	5.94	
22 11 16 00-0004	LF	1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	31.23	6.63
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	8.76	
		<i>For ASTM 120, Deduct</i>	-1.51	
		<i>For Work In Restricted Working Space, Add</i>	6.35	
22 11 16 00-0005	LF	1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	36.83	6.91
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	10.96	
		<i>For ASTM 120, Deduct</i>	-2.16	
		<i>For Work In Restricted Working Space, Add</i>	6.74	
22 11 16 00-0006	LF	1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	39.87	8.18
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	12.08	
		<i>For ASTM 120, Deduct</i>	-2.47	
		<i>For Work In Restricted Working Space, Add</i>	7.03	
22 11 16 00-0007	LF	2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	48.42	9.86
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	15.12	
		<i>For ASTM 120, Deduct</i>	-3.26	
		<i>For Work In Restricted Working Space, Add</i>	8.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0008	LF		2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....71.33 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 24.29 <i>For ASTM 120, Deduct</i> -6.01 <i>For Work In Restricted Working Space, Add</i> 9.37		11.70
22 11 16 00-0009	LF		3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....88.07 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 30.17 <i>For ASTM 120, Deduct</i> -7.53 <i>For Work In Restricted Working Space, Add</i> 11.36		15.65
22 11 16 00-0010	LF		4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....133.30 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 50.28 <i>For ASTM 120, Deduct</i> -14.17 <i>For Work In Restricted Working Space, Add</i> 11.64		16.61
22 11 16 00-0011	LF		5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....235.93 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 94.45 <i>For ASTM 120, Deduct</i> -28.36 <i>For Work In Restricted Working Space, Add</i> 14.07		21.23
22 11 16 00-0012	LF		6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....286.58 Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> 115.64 <i>For ASTM 120, Deduct</i> -35.00 <i>For Work In Restricted Working Space, Add</i> 15.98		25.11
22 11 16 00-0013			<b>Galvanized Steel Pipe And Threaded Fittings</b> <sup>(22 11 16)</sup> Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
22 11 16 00-0014			<b>Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe</b> <sup>(22 11 16 00-0013)</sup> Note: ASTM A-53. Welded pipe has a weld bead on the inside. Includes coupling. Includes cutting and threading to length where necessary.		
22 11 16 00-0015	LF		1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....11.98 <i>For Schedule 80 Pipe, Add</i> 2.50 <i>For ASTM 120, Deduct</i> -0.51 <i>For Work In Restricted Working Space, Add</i> 2.57		5.64
22 11 16 00-0016	LF		3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....13.63 <i>For Schedule 80 Pipe, Add</i> 3.08 <i>For ASTM 120, Deduct</i> -0.68 <i>For Work In Restricted Working Space, Add</i> 2.73		6.06
22 11 16 00-0017	LF		1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....16.58 <i>For Schedule 80 Pipe, Add</i> 4.22 <i>For ASTM 120, Deduct</i> -1.01 <i>For Work In Restricted Working Space, Add</i> 2.96		6.63
22 11 16 00-0018	LF		1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....19.56 <i>For Schedule 80 Pipe, Add</i> 5.42 <i>For ASTM 120, Deduct</i> -1.37 <i>For Work In Restricted Working Space, Add</i> 3.14		6.91
22 11 16 00-0019	LF		1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....23.16 <i>For Schedule 80 Pipe, Add</i> 6.46 <i>For ASTM 120, Deduct</i> -1.64 <i>For Work In Restricted Working Space, Add</i> 3.68		8.18
22 11 16 00-0020	LF		2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....29.47 <i>For Schedule 80 Pipe, Add</i> 8.51 <i>For ASTM 120, Deduct</i> -2.19 <i>For Work In Restricted Working Space, Add</i> 4.45		9.86
22 11 16 00-0021	LF		2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....40.83 <i>For Schedule 80 Pipe, Add</i> 12.90 <i>For ASTM 120, Deduct</i> -3.48 <i>For Work In Restricted Working Space, Add</i> 5.29		11.70
22 11 16 00-0022	LF		3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....53.89 <i>For Schedule 80 Pipe, Add</i> 16.94 <i>For ASTM 120, Deduct</i> -4.56 <i>For Work In Restricted Working Space, Add</i> 7.05		15.65
22 11 16 00-0023	LF		4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....68.24 <i>For Schedule 80 Pipe, Add</i> 23.26 <i>For ASTM 120, Deduct</i> -6.49 <i>For Work In Restricted Working Space, Add</i> 7.49		16.61
22 11 16 00-0024	LF		5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....89.81 <i>For Schedule 80 Pipe, Add</i> 31.03 <i>For ASTM 120, Deduct</i> -8.70 <i>For Work In Restricted Working Space, Add</i> 9.54		21.23
22 11 16 00-0025	LF		6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....112.87 <i>For Schedule 80 Pipe, Add</i> 39.89 <i>For ASTM 120, Deduct</i> -11.29 <i>For Work In Restricted Working Space, Add</i> 11.28		25.11
22 11 16 00-0026	LF		8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe .....126.73 <i>For Schedule 80 Pipe, Add</i> 43.57 <i>For ASTM 120, Deduct</i> -12.20 <i>For Work In Restricted Working Space, Add</i> 13.63		30.35





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0027				<b>Seamless, Threaded And Coupled, Galvanized Steel Pipe</b> <small>(22 11 16 00-0013)</small>		
				Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.		
22 11 16 00-0028	LF			1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....16.74	16.74	5.64
				For Schedule 80 Pipe, Add	4.79	
				For ASTM 120, Deduct	-1.23	
				For Work In Restricted Working Space, Add	2.57	
22 11 16 00-0029	LF			3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....18.91	18.91	6.06
				For Schedule 80 Pipe, Add	5.62	
				For ASTM 120, Deduct	-1.47	
				For Work In Restricted Working Space, Add	2.73	
22 11 16 00-0030	LF			1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....21.26	21.26	6.63
				For Schedule 80 Pipe, Add	6.46	
				For ASTM 120, Deduct	-1.71	
				For Work In Restricted Working Space, Add	2.96	
22 11 16 00-0031	LF			1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....24.79	24.79	6.91
				For Schedule 80 Pipe, Add	7.93	
				For ASTM 120, Deduct	-2.15	
				For Work In Restricted Working Space, Add	3.14	
22 11 16 00-0032	LF			1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....28.63	28.63	8.18
				For Schedule 80 Pipe, Add	9.08	
				For ASTM 120, Deduct	-2.46	
				For Work In Restricted Working Space, Add	3.68	
22 11 16 00-0033	LF			2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....33.49	33.49	9.86
				For Schedule 80 Pipe, Add	10.44	
				For ASTM 120, Deduct	-2.80	
				For Work In Restricted Working Space, Add	4.45	
22 11 16 00-0034	LF			2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....48.83	48.83	11.70
				For Schedule 80 Pipe, Add	16.74	
				For ASTM 120, Deduct	-4.68	
				For Work In Restricted Working Space, Add	5.29	
22 11 16 00-0035	LF			3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....61.66	61.66	15.65
				For Schedule 80 Pipe, Add	20.67	
				For ASTM 120, Deduct	-5.72	
				For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0036	LF			4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....79.53	79.53	16.61
				For Schedule 80 Pipe, Add	28.68	
				For ASTM 120, Deduct	-8.18	
				For Work In Restricted Working Space, Add	7.49	
22 11 16 00-0037	LF			5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....103.00	103.00	21.23
				For Schedule 80 Pipe, Add	37.36	
				For ASTM 120, Deduct	-10.68	
				For Work In Restricted Working Space, Add	9.54	
22 11 16 00-0038	LF			6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe .....128.70	128.70	25.11
				For Schedule 80 Pipe, Add	47.48	
				For ASTM 120, Deduct	-13.66	
				For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0039				<b>Galvanized Malleable Iron 90 Degree Elbows</b> <small>(22 11 16 00-0013)</small>		
22 11 16 00-0040	EA			1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....44.81	44.81	25.10
				For 300 LB Rating, Add	26.77	
				For ASTM 120, Deduct	-1.08	
				For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0041	EA			3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....50.93	50.93	28.06
				For 300 LB Rating, Add	32.61	
				For ASTM 120, Deduct	-1.33	
				For Work In Restricted Working Space, Add	12.62	
22 11 16 00-0042	EA			1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....63.39	63.39	31.29
				For 300 LB Rating, Add	58.58	
				For ASTM 120, Deduct	-2.46	
				For Work In Restricted Working Space, Add	14.10	
22 11 16 00-0043	EA			1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....79.13	79.13	35.53
				For 300 LB Rating, Add	91.32	
				For ASTM 120, Deduct	-3.89	
				For Work In Restricted Working Space, Add	15.96	
22 11 16 00-0044	EA			1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....93.82	93.82	40.04
				For 300 LB Rating, Add	118.62	
				For ASTM 120, Deduct	-5.07	
				For Work In Restricted Working Space, Add	18.00	
22 11 16 00-0045	EA			2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....131.61	131.61	50.89
				For 300 LB Rating, Add	192.97	
				For ASTM 120, Deduct	-8.31	
				For Work In Restricted Working Space, Add	22.86	
22 11 16 00-0046	EA			2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....257.77	257.77	75.29
				For 300 LB Rating, Add	499.70	
				For ASTM 120, Deduct	-21.75	
				For Work In Restricted Working Space, Add	33.84	
22 11 16 00-0047	EA			3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....387.43	387.43	98.97
				For 300 LB Rating, Add	821.61	
				For ASTM 120, Deduct	-35.85	
				For Work In Restricted Working Space, Add	44.52	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0048	EA		4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....	567.31	97.18
			<i>For 300 LB Rating, Add</i>	1,442.12	
			<i>For ASTM 120, Deduct</i>	-63.24	
			<i>For Work In Restricted Working Space, Add</i>	43.72	
22 11 16 00-0049	EA		5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....	1,972.69	101.43
			<i>For 300 LB Rating, Add</i>	6,199.23	
			<i>For ASTM 120, Deduct</i>	-273.09	
			<i>For Work In Restricted Working Space, Add</i>	45.62	
22 11 16 00-0050	EA		6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....	1,837.39	106.05
			<i>For 300 LB Rating, Add</i>	5,716.13	
			<i>For ASTM 120, Deduct</i>	-251.76	
			<i>For Work In Restricted Working Space, Add</i>	47.69	
22 11 16 00-0051	EA		8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....	2,191.03	110.82
			<i>For 300 LB Rating, Add</i>	6,894.59	
			<i>For ASTM 120, Deduct</i>	-303.73	
			<i>For Work In Restricted Working Space, Add</i>	49.84	
<b>22 11 16 00-0052</b>			<b>Galvanized Malleable Iron Reducing 90 Degree Elbows</b> <small>(22 11 16 00-0013)</small>		
22 11 16 00-0053	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	55.24	26.51
			<i>For ASTM 120, Deduct</i>	-2.31	
			<i>For Work In Restricted Working Space, Add</i>	11.95	
22 11 16 00-0054	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	64.29	29.74
			<i>For ASTM 120, Deduct</i>	-2.96	
			<i>For Work In Restricted Working Space, Add</i>	13.36	
22 11 16 00-0055	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	63.25	28.20
			<i>For ASTM 120, Deduct</i>	-3.14	
			<i>For Work In Restricted Working Space, Add</i>	12.69	
22 11 16 00-0056	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	83.23	33.42
			<i>For ASTM 120, Deduct</i>	-4.97	
			<i>For Work In Restricted Working Space, Add</i>	15.03	
22 11 16 00-0057	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	87.44	31.72
			<i>For ASTM 120, Deduct</i>	-5.97	
			<i>For Work In Restricted Working Space, Add</i>	14.29	
22 11 16 00-0058	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	87.57	30.31
			<i>For ASTM 120, Deduct</i>	-6.33	
			<i>For Work In Restricted Working Space, Add</i>	13.62	
22 11 16 00-0059	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	109.55	37.78
			<i>For ASTM 120, Deduct</i>	-7.94	
			<i>For Work In Restricted Working Space, Add</i>	16.98	
22 11 16 00-0060	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	106.45	35.67
			<i>For ASTM 120, Deduct</i>	-7.94	
			<i>For Work In Restricted Working Space, Add</i>	16.05	
22 11 16 00-0061	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	103.99	33.98
			<i>For ASTM 120, Deduct</i>	-7.94	
			<i>For Work In Restricted Working Space, Add</i>	15.31	
22 11 16 00-0062	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	129.97	45.39
			<i>For ASTM 120, Deduct</i>	-9.28	
			<i>For Work In Restricted Working Space, Add</i>	20.43	
22 11 16 00-0063	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	135.62	43.14
			<i>For ASTM 120, Deduct</i>	-10.64	
			<i>For Work In Restricted Working Space, Add</i>	19.41	
22 11 16 00-0064	EA		2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	135.18	41.03
			<i>For ASTM 120, Deduct</i>	-11.04	
			<i>For Work In Restricted Working Space, Add</i>	18.48	
22 11 16 00-0065	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	114.97	39.48
			<i>For ASTM 120, Deduct</i>	-8.37	
			<i>For Work In Restricted Working Space, Add</i>	17.74	
22 11 16 00-0066	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	304.20	63.02
			<i>For ASTM 120, Deduct</i>	-31.46	
			<i>For Work In Restricted Working Space, Add</i>	28.35	
22 11 16 00-0067	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	320.02	57.66
			<i>For ASTM 120, Deduct</i>	-35.04	
			<i>For Work In Restricted Working Space, Add</i>	25.92	
22 11 16 00-0068	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	511.72	87.12
			<i>For ASTM 120, Deduct</i>	-57.17	
			<i>For Work In Restricted Working Space, Add</i>	39.18	
22 11 16 00-0069	EA		3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	443.33	74.87
			<i>For ASTM 120, Deduct</i>	-49.65	
			<i>For Work In Restricted Working Space, Add</i>	33.69	
22 11 16 00-0070	EA		4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	1,001.07	92.43
			<i>For ASTM 120, Deduct</i>	-129.37	
			<i>For Work In Restricted Working Space, Add</i>	41.58	
<b>22 11 16 00-0071</b>			<b>Galvanized Malleable Iron 45 Degree Elbow</b> <small>(22 11 16 00-0013)</small>		
22 11 16 00-0072	EA		1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	45.70	25.10
			<i>For 300 LB Rating, Add</i>	29.80	
			<i>For ASTM 120, Deduct</i>	-1.22	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
22 11 16 00-0073	EA		3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	53.73	28.06
			<i>For 300 LB Rating, Add</i>	42.13	
			<i>For ASTM 120, Deduct</i>	-1.75	
			<i>For Work In Restricted Working Space, Add</i>	12.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0074 EA 1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	60.14	31.29
For 300 LB Rating, Add	47.53	
For ASTM 120, Deduct	-1.97	
For Work In Restricted Working Space, Add	14.10	
22 11 16 00-0075 EA 1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	77.78	35.53
For 300 LB Rating, Add	86.73	
For ASTM 120, Deduct	-3.69	
For Work In Restricted Working Space, Add	15.96	
22 11 16 00-0076 EA 1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	88.85	40.04
For 300 LB Rating, Add	101.72	
For ASTM 120, Deduct	-4.33	
For Work In Restricted Working Space, Add	18.00	
22 11 16 00-0077 EA 2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	118.90	50.89
For 300 LB Rating, Add	149.75	
For ASTM 120, Deduct	-6.41	
For Work In Restricted Working Space, Add	22.86	
22 11 16 00-0078 EA 2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	261.36	75.29
For 300 LB Rating, Add	511.91	
For ASTM 120, Deduct	-22.29	
For Work In Restricted Working Space, Add	33.84	
22 11 16 00-0079 EA 3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	364.48	98.97
For 300 LB Rating, Add	743.58	
For ASTM 120, Deduct	-32.41	
For Work In Restricted Working Space, Add	44.52	
22 11 16 00-0080 EA 4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	507.98	97.18
For 300 LB Rating, Add	1,240.39	
For ASTM 120, Deduct	-54.34	
For Work In Restricted Working Space, Add	43.72	
22 11 16 00-0081 EA 5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	1,615.85	101.43
For 300 LB Rating, Add	4,985.98	
For ASTM 120, Deduct	-219.57	
For Work In Restricted Working Space, Add	45.62	
22 11 16 00-0082 EA 6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	1,923.95	106.05
For 300 LB Rating, Add	6,010.44	
For ASTM 120, Deduct	-264.75	
For Work In Restricted Working Space, Add	47.69	
22 11 16 00-0083 EA 8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow .....	2,292.42	110.82
For 300 LB Rating, Add	7,239.32	
For ASTM 120, Deduct	-318.94	
For Work In Restricted Working Space, Add	49.84	
<b>22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)</b>		
22 11 16 00-0085 EA 1/2", 150 LB, Galvanized Malleable Iron Tee .....	55.90	31.29
For 300 LB Rating, Add	33.11	
For ASTM 120, Deduct	-1.34	
For Work In Restricted Working Space, Add	14.10	
22 11 16 00-0086 EA 3/4", 150 LB, Galvanized Malleable Iron Tee .....	68.92	36.23
For 300 LB Rating, Add	53.23	
For ASTM 120, Deduct	-2.21	
For Work In Restricted Working Space, Add	16.27	
22 11 16 00-0087 EA 1", 150 LB, Galvanized Malleable Iron Tee .....	87.85	42.72
For 300 LB Rating, Add	84.63	
For ASTM 120, Deduct	-3.56	
For Work In Restricted Working Space, Add	19.23	
22 11 16 00-0088 EA 1-1/4", 150 LB, Galvanized Malleable Iron Tee .....	113.91	50.89
For 300 LB Rating, Add	132.79	
For ASTM 120, Deduct	-5.66	
For Work In Restricted Working Space, Add	22.86	
22 11 16 00-0089 EA 1-1/2", 150 LB, Galvanized Malleable Iron Tee .....	137.82	60.63
For 300 LB Rating, Add	164.82	
For ASTM 120, Deduct	-7.03	
For Work In Restricted Working Space, Add	27.29	
22 11 16 00-0090 EA 2", 150 LB, Galvanized Malleable Iron Tee .....	188.98	75.29
For 300 LB Rating, Add	265.81	
For ASTM 120, Deduct	-11.43	
For Work In Restricted Working Space, Add	33.84	
22 11 16 00-0091 EA 2-1/2", 150 LB, Galvanized Malleable Iron Tee .....	337.09	81.77
For 300 LB Rating, Add	736.66	
For ASTM 120, Deduct	-32.18	
For Work In Restricted Working Space, Add	36.78	
22 11 16 00-0092 EA 3", 150 LB, Galvanized Malleable Iron Tee .....	399.94	98.97
For 300 LB Rating, Add	864.14	
For ASTM 120, Deduct	-37.73	
For Work In Restricted Working Space, Add	44.52	
22 11 16 00-0093 EA 4", 150 LB, Galvanized Malleable Iron Tee .....	779.15	122.79
For 300 LB Rating, Add	2,034.28	
For ASTM 120, Deduct	-89.26	
For Work In Restricted Working Space, Add	55.22	
22 11 16 00-0094 EA 5", 150 LB, Galvanized Malleable Iron Tee .....	2,089.13	145.77
For 300 LB Rating, Add	6,372.92	
For ASTM 120, Deduct	-280.58	
For Work In Restricted Working Space, Add	65.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0095	EA		6", 150 LB, Galvanized Malleable Iron Tee.....	2,371.45	166.63
			<i>For 300 LB Rating, Add</i>	7,228.50	
			<i>For ASTM 120, Deduct</i>	-318.24	
			<i>For Work In Restricted Working Space, Add</i>	74.95	
22 11 16 00-0096	EA		8", 150 LB, Galvanized Malleable Iron Tee.....	2,820.67	197.86
			<i>For 300 LB Rating, Add</i>	8,588.95	
			<i>For ASTM 120, Deduct</i>	-378.13	
			<i>For Work In Restricted Working Space, Add</i>	89.94	
<b>22 11 16 00-0097</b>			<b>Galvanized Malleable Iron Reducing Tee</b> (22 11 16 00-0013)		
22 11 16 00-0098	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	67.70	31.29
			<i>For 300 LB Rating, Add</i>	73.23	
			<i>For ASTM 120, Deduct</i>	-3.11	
			<i>For Work In Restricted Working Space, Add</i>	14.10	
22 11 16 00-0099	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	74.65	36.23
			<i>For 300 LB Rating, Add</i>	72.72	
			<i>For ASTM 120, Deduct</i>	-3.06	
			<i>For Work In Restricted Working Space, Add</i>	16.27	
22 11 16 00-0100	EA		1", 150 LB, Galvanized Malleable Iron Reducing Tee.....	92.80	42.72
			<i>For 300 LB Rating, Add</i>	101.46	
			<i>For ASTM 120, Deduct</i>	-4.31	
			<i>For Work In Restricted Working Space, Add</i>	19.23	
22 11 16 00-0101	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	120.71	50.89
			<i>For 300 LB Rating, Add</i>	155.91	
			<i>For ASTM 120, Deduct</i>	-6.68	
			<i>For Work In Restricted Working Space, Add</i>	22.86	
22 11 16 00-0102	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	145.93	60.63
			<i>For 300 LB Rating, Add</i>	192.39	
			<i>For ASTM 120, Deduct</i>	-8.25	
			<i>For Work In Restricted Working Space, Add</i>	27.29	
22 11 16 00-0103	EA		2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	193.06	75.29
			<i>For 300 LB Rating, Add</i>	279.69	
			<i>For ASTM 120, Deduct</i>	-12.04	
			<i>For Work In Restricted Working Space, Add</i>	33.84	
22 11 16 00-0104	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	406.49	82.05
			<i>For 300 LB Rating, Add</i>	971.31	
			<i>For ASTM 120, Deduct</i>	-42.53	
			<i>For Work In Restricted Working Space, Add</i>	36.89	
22 11 16 00-0105	EA		3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	518.44	100.52
			<i>For 300 LB Rating, Add</i>	1,259.19	
			<i>For ASTM 120, Deduct</i>	-55.15	
			<i>For Work In Restricted Working Space, Add</i>	45.23	
22 11 16 00-0106	EA		4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,249.95	122.79
			<i>For 300 LB Rating, Add</i>	3,635.00	
			<i>For ASTM 120, Deduct</i>	-159.88	
			<i>For Work In Restricted Working Space, Add</i>	55.22	
22 11 16 00-0107	EA		5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,808.55	145.77
			<i>For 300 LB Rating, Add</i>	8,818.95	
			<i>For ASTM 120, Deduct</i>	-388.49	
			<i>For Work In Restricted Working Space, Add</i>	65.58	
22 11 16 00-0108	EA		6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	3,053.95	166.63
			<i>For 300 LB Rating, Add</i>	9,549.00	
			<i>For ASTM 120, Deduct</i>	-420.62	
			<i>For Work In Restricted Working Space, Add</i>	74.95	
22 11 16 00-0109	EA		8", 150 LB, Galvanized Malleable Iron Reducing Tee.....	3,668.36	191.35
			<i>For 300 LB Rating, Add</i>	11,512.81	
			<i>For ASTM 120, Deduct</i>	-507.16	
			<i>For Work In Restricted Working Space, Add</i>	86.19	
<b>22 11 16 00-0110</b>			<b>Galvanized Malleable Iron Couplings</b> (22 11 16 00-0013)		
22 11 16 00-0111	EA		1/2", 150 LB, Galvanized Malleable Iron Coupling.....	43.89	25.10
			<i>For 300 LB Rating, Add</i>	23.64	
			<i>For ASTM 120, Deduct</i>	-0.94	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
22 11 16 00-0112	EA		3/4", 150 LB, Galvanized Malleable Iron Coupling.....	49.33	28.06
			<i>For 300 LB Rating, Add</i>	27.17	
			<i>For ASTM 120, Deduct</i>	-1.09	
			<i>For Work In Restricted Working Space, Add</i>	12.62	
22 11 16 00-0113	EA		1", 150 LB, Galvanized Malleable Iron Coupling.....	58.87	31.29
			<i>For 300 LB Rating, Add</i>	43.21	
			<i>For ASTM 120, Deduct</i>	-1.78	
			<i>For Work In Restricted Working Space, Add</i>	14.10	
22 11 16 00-0114	EA		1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	69.96	35.53
			<i>For 300 LB Rating, Add</i>	60.14	
			<i>For ASTM 120, Deduct</i>	-2.51	
			<i>For Work In Restricted Working Space, Add</i>	15.96	
22 11 16 00-0115	EA		1-1/2", 150 LB, Galvanized Malleable Iron Coupling.....	79.03	40.04
			<i>For 300 LB Rating, Add</i>	68.34	
			<i>For ASTM 120, Deduct</i>	-2.86	
			<i>For Work In Restricted Working Space, Add</i>	18.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0116 EA 2", 150 LB, Galvanized Malleable Iron Coupling.....	104.04	50.89
For 300 LB Rating, Add	99.23	
For ASTM 120, Deduct	-4.18	
For Work In Restricted Working Space, Add	22.86	
22 11 16 00-0117 EA 2-1/2", 150 LB, Galvanized Malleable Iron Coupling .....	198.01	75.29
For 300 LB Rating, Add	296.52	
For ASTM 120, Deduct	-12.78	
For Work In Restricted Working Space, Add	33.84	
22 11 16 00-0118 EA 3", 150 LB, Galvanized Malleable Iron Coupling.....	262.30	98.97
For 300 LB Rating, Add	396.16	
For ASTM 120, Deduct	-17.09	
For Work In Restricted Working Space, Add	44.52	
22 11 16 00-0119 EA 4", 150 LB, Galvanized Malleable Iron Coupling.....	387.63	97.18
For 300 LB Rating, Add	831.20	
For ASTM 120, Deduct	-36.29	
For Work In Restricted Working Space, Add	43.72	
22 11 16 00-0120 EA 5", 150 LB, Galvanized Malleable Iron Coupling.....	833.21	101.43
For 300 LB Rating, Add	2,325.00	
For ASTM 120, Deduct	-102.17	
For Work In Restricted Working Space, Add	45.62	
22 11 16 00-0121 EA 6", 150 LB, Galvanized Malleable Iron Coupling.....	934.98	106.05
For 300 LB Rating, Add	2,647.94	
For ASTM 120, Deduct	-116.40	
For Work In Restricted Working Space, Add	47.69	
22 11 16 00-0122 EA 8", 150 LB, Galvanized Malleable Iron Coupling.....	1,101.38	110.82
For 300 LB Rating, Add	3,189.78	
For ASTM 120, Deduct	-140.29	
For Work In Restricted Working Space, Add	49.84	
<b>22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)</b>		
22 11 16 00-0124 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	45.23	25.10
For 300 LB Rating, Add	28.20	
For ASTM 120, Deduct	-1.14	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0125 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	50.24	28.06
For 300 LB Rating, Add	30.27	
For ASTM 120, Deduct	-1.22	
For Work In Restricted Working Space, Add	12.62	
22 11 16 00-0126 EA 1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	60.59	31.29
For 300 LB Rating, Add	49.06	
For ASTM 120, Deduct	-2.04	
For Work In Restricted Working Space, Add	14.10	
22 11 16 00-0127 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling .....	70.79	35.53
For 300 LB Rating, Add	62.96	
For ASTM 120, Deduct	-2.64	
For Work In Restricted Working Space, Add	15.96	
22 11 16 00-0128 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling .....	82.66	40.04
For 300 LB Rating, Add	80.68	
For ASTM 120, Deduct	-3.40	
For Work In Restricted Working Space, Add	18.00	
22 11 16 00-0129 EA 2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	107.13	50.89
For 300 LB Rating, Add	109.73	
For ASTM 120, Deduct	-4.64	
For Work In Restricted Working Space, Add	22.86	
22 11 16 00-0130 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling .....	199.09	75.29
For 300 LB Rating, Add	300.19	
For ASTM 120, Deduct	-12.95	
For Work In Restricted Working Space, Add	33.84	
22 11 16 00-0131 EA 3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	259.07	98.97
For 300 LB Rating, Add	385.18	
For ASTM 120, Deduct	-16.60	
For Work In Restricted Working Space, Add	44.52	
22 11 16 00-0132 EA 4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	393.86	97.18
For 300 LB Rating, Add	852.39	
For ASTM 120, Deduct	-37.22	
For Work In Restricted Working Space, Add	43.72	
22 11 16 00-0133 EA 5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	869.06	101.43
For 300 LB Rating, Add	2,446.89	
For ASTM 120, Deduct	-107.55	
For Work In Restricted Working Space, Add	45.62	
22 11 16 00-0134 EA 6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	975.82	106.05
For 300 LB Rating, Add	2,786.79	
For ASTM 120, Deduct	-122.53	
For Work In Restricted Working Space, Add	47.69	
22 11 16 00-0135 EA 8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	1,150.97	110.82
For 300 LB Rating, Add	3,358.39	
For ASTM 120, Deduct	-147.72	
For Work In Restricted Working Space, Add	49.84	

**22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)**

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0137	EA	1/2", 150 LB, Galvanized Malleable Iron Cap	19.79	11.70
		<i>For 300 LB Rating, Add</i>	8.44	
		<i>For ASTM 120, Deduct</i>	-0.33	
		<i>For Work In Restricted Working Space, Add</i>	5.29	
22 11 16 00-0138	EA	3/4", 150 LB, Galvanized Malleable Iron Cap	21.79	12.55
		<i>For 300 LB Rating, Add</i>	11.33	
		<i>For ASTM 120, Deduct</i>	-0.45	
		<i>For Work In Restricted Working Space, Add</i>	5.64	
22 11 16 00-0139	EA	1", 150 LB, Galvanized Malleable Iron Cap	25.41	14.52
		<i>For 300 LB Rating, Add</i>	13.95	
		<i>For ASTM 120, Deduct</i>	-0.56	
		<i>For Work In Restricted Working Space, Add</i>	6.51	
22 11 16 00-0140	EA	1-1/4", 150 LB, Galvanized Malleable Iron Cap	27.63	15.22
		<i>For 300 LB Rating, Add</i>	17.99	
		<i>For ASTM 120, Deduct</i>	-0.73	
		<i>For Work In Restricted Working Space, Add</i>	6.82	
22 11 16 00-0141	EA	1-1/2", 150 LB, Galvanized Malleable Iron Cap	27.32	15.22
		<i>For 300 LB Rating, Add</i>	16.94	
		<i>For ASTM 120, Deduct</i>	-0.69	
		<i>For Work In Restricted Working Space, Add</i>	6.82	
22 11 16 00-0142	EA	2", 150 LB, Galvanized Malleable Iron Cap	40.13	20.16
		<i>For 300 LB Rating, Add</i>	35.17	
		<i>For ASTM 120, Deduct</i>	-1.47	
		<i>For Work In Restricted Working Space, Add</i>	9.10	
22 11 16 00-0143	EA	2-1/2", 150 LB, Galvanized Malleable Iron Cap	59.61	25.10
		<i>For 300 LB Rating, Add</i>	77.09	
		<i>For ASTM 120, Deduct</i>	-3.30	
		<i>For Work In Restricted Working Space, Add</i>	11.28	
22 11 16 00-0144	EA	3", 150 LB, Galvanized Malleable Iron Cap	76.82	30.31
		<i>For 300 LB Rating, Add</i>	109.28	
		<i>For ASTM 120, Deduct</i>	-4.70	
		<i>For Work In Restricted Working Space, Add</i>	13.64	
22 11 16 00-0145	EA	4", 150 LB, Galvanized Malleable Iron Cap	108.56	33.35
		<i>For 300 LB Rating, Add</i>	202.20	
		<i>For ASTM 120, Deduct</i>	-8.79	
		<i>For Work In Restricted Working Space, Add</i>	14.99	
22 11 16 00-0146	EA	5", 150 LB, Galvanized Malleable Iron Cap	256.96	41.72
		<i>For 300 LB Rating, Add</i>	665.05	
		<i>For ASTM 120, Deduct</i>	-29.18	
		<i>For Work In Restricted Working Space, Add</i>	18.74	
22 11 16 00-0147	EA	6", 150 LB, Galvanized Malleable Iron Cap	319.56	49.59
		<i>For 300 LB Rating, Add</i>	837.94	
		<i>For ASTM 120, Deduct</i>	-36.77	
		<i>For Work In Restricted Working Space, Add</i>	22.33	
22 11 16 00-0148	EA	8", 150 LB, Galvanized Malleable Iron Cap	400.76	55.41
		<i>For 300 LB Rating, Add</i>	1,085.13	
		<i>For ASTM 120, Deduct</i>	-47.65	
		<i>For Work In Restricted Working Space, Add</i>	24.92	
22 11 16 00-0149		<b>Galvanized Malleable Iron FIP Threaded, Unions (22 11 16 00-0013)</b>		
22 11 16 00-0150	EA	1/2", 150 LB, Galvanized Malleable Iron Union	77.68	31.29
		<i>For Work In Restricted Working Space, Add</i>	14.10	
22 11 16 00-0151	EA	3/4", 150 LB, Galvanized Malleable Iron Union	89.49	36.23
		<i>For Work In Restricted Working Space, Add</i>	16.27	
22 11 16 00-0152	EA	1", 150 LB, Galvanized Malleable Iron Union	110.27	42.72
		<i>For Work In Restricted Working Space, Add</i>	19.23	
22 11 16 00-0153	EA	1-1/4", 150 LB, Galvanized Malleable Iron Union	142.96	50.89
		<i>For Work In Restricted Working Space, Add</i>	22.86	
22 11 16 00-0154	EA	1-1/2", 150 LB, Galvanized Malleable Iron Union	171.84	60.63
		<i>For Work In Restricted Working Space, Add</i>	27.29	
22 11 16 00-0155	EA	2", 150 LB, Galvanized Malleable Iron Union	205.78	75.29
		<i>For Work In Restricted Working Space, Add</i>	33.84	
22 11 16 00-0156	EA	2-1/2", 150 LB, Galvanized Malleable Iron Union	489.52	110.96
		<i>For Work In Restricted Working Space, Add</i>	49.95	
22 11 16 00-0157	EA	3", 150 LB, Galvanized Malleable Iron Union	671.17	145.92
		<i>For Work In Restricted Working Space, Add</i>	65.72	
22 11 16 00-0158	EA	1/2", 250 LB, Galvanized Malleable Iron Union	109.39	31.29
		<i>For Work In Restricted Working Space, Add</i>	14.10	
22 11 16 00-0159	EA	3/4", 250 LB, Galvanized Malleable Iron Union	110.92	36.23
		<i>For Work In Restricted Working Space, Add</i>	16.27	
22 11 16 00-0160	EA	1", 250 LB, Galvanized Malleable Iron Union	134.37	42.72
		<i>For Work In Restricted Working Space, Add</i>	19.22	
22 11 16 00-0161	EA	1-1/4", 250 LB, Galvanized Malleable Iron Union	182.65	50.89
		<i>For Work In Restricted Working Space, Add</i>	22.86	
22 11 16 00-0162	EA	1-1/2", 250 LB, Galvanized Malleable Iron Union	213.51	60.63
		<i>For Work In Restricted Working Space, Add</i>	27.29	
22 11 16 00-0163	EA	2", 250 LB, Galvanized Malleable Iron Union	285.86	75.29
		<i>For Work In Restricted Working Space, Add</i>	33.84	
22 11 16 00-0164	EA	2-1/2", 250 LB, Galvanized Malleable Iron Union	621.77	110.96
		<i>For Work In Restricted Working Space, Add</i>	49.95	
22 11 16 00-0165	EA	3", 250 LB, Galvanized Malleable Iron Union	917.59	145.92
		<i>For Work In Restricted Working Space, Add</i>	65.72	
22 11 16 00-0166	EA	4", 250 LB, Galvanized Malleable Iron Union	1,310.86	143.41
		<i>For Work In Restricted Working Space, Add</i>	64.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0167	EA		1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	118.09 14.10	31.29
22 11 16 00-0168	EA		3/4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	131.32 16.27	36.23
22 11 16 00-0169	EA		1", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	166.36 19.22	42.72
22 11 16 00-0170	EA		1-1/4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	218.82 22.86	50.89
22 11 16 00-0171	EA		1-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	262.69 27.29	60.63
22 11 16 00-0172	EA		2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	318.91 33.84	75.29
22 11 16 00-0173	EA		2-1/2", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	741.46 49.95	110.96
22 11 16 00-0174	EA		3", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	1,191.48 65.72	145.92
22 11 16 00-0175	EA		4", 300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	2,653.95 64.54	143.41
22 11 16 00-0176			<b>Galvanized Steel Nipples</b> (22 11 16 00-0013) Note: ASTM A-53.		
22 11 16 00-0177	EA		3/8" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.70 2.92 -0.38 6.04	13.39
22 11 16 00-0178	EA		1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.21 2.36 -0.31 6.04	13.39
22 11 16 00-0179	EA		3/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.65 2.86 -0.38 6.04	13.39
22 11 16 00-0180	EA		1" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	25.14 3.93 -0.52 6.51	14.52
22 11 16 00-0181	EA		1-1/4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.12 5.27 -0.69 7.05	15.65
22 11 16 00-0182	EA		1-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.93 6.19 -0.81 7.05	15.65
22 11 16 00-0183	EA		2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	37.97 8.72 -1.15 9.10	20.16
22 11 16 00-0184	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	60.37 25.96 -3.42 11.28	25.10
22 11 16 00-0185	EA		3" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	72.76 31.10 -4.09 13.64	30.31
22 11 16 00-0186	EA		4" x Close, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	90.86 46.61 -6.13 14.99	33.35
22 11 16 00-0187	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.08 3.35 -0.44 6.04	13.39
22 11 16 00-0188	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.32 2.49 -0.33 6.04	13.39
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.87 3.11 -0.41 6.04	13.39
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.08 3.35 -0.44 6.04	13.39
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.32 2.49 -0.33 6.04	13.39
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.87 3.11 -0.41 6.04	13.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0193 EA 1" x 2" Long, Schedule 40 Galvanized Steel Nipple .....	25.76	14.52
For Schedule 80 Nipples, Add	4.64	
For ASTM 120, Deduct	-0.61	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0194 EA 1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple .....	28.46	15.65
For Schedule 80 Nipples, Add	5.65	
For ASTM 120, Deduct	-0.74	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0195 EA 1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple .....	29.33	15.65
For Schedule 80 Nipples, Add	6.65	
For ASTM 120, Deduct	-0.87	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0196 EA 3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	24.05	13.39
For Schedule 80 Nipples, Add	4.46	
For ASTM 120, Deduct	-0.59	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0197 EA 1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	22.70	13.39
For Schedule 80 Nipples, Add	2.92	
For ASTM 120, Deduct	-0.38	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0198 EA 3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	23.16	13.39
For Schedule 80 Nipples, Add	3.44	
For ASTM 120, Deduct	-0.45	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0199 EA 1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	26.09	14.52
For Schedule 80 Nipples, Add	5.02	
For ASTM 120, Deduct	-0.66	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0200 EA 1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	28.95	15.65
For Schedule 80 Nipples, Add	6.21	
For ASTM 120, Deduct	-0.82	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0201 EA 1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	29.99	15.65
For Schedule 80 Nipples, Add	7.40	
For ASTM 120, Deduct	-0.97	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0202 EA 2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	38.92	20.16
For Schedule 80 Nipples, Add	9.80	
For ASTM 120, Deduct	-1.29	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0203 EA 3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple .....	24.05	13.39
For Schedule 80 Nipples, Add	4.46	
For ASTM 120, Deduct	-0.59	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0204 EA 1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple .....	22.70	13.39
For Schedule 80 Nipples, Add	2.92	
For ASTM 120, Deduct	-0.38	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0205 EA 3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple .....	23.16	13.39
For Schedule 80 Nipples, Add	3.44	
For ASTM 120, Deduct	-0.45	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0206 EA 1" x 3" Long, Schedule 40 Galvanized Steel Nipple .....	26.09	14.52
For Schedule 80 Nipples, Add	5.02	
For ASTM 120, Deduct	-0.66	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0207 EA 1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple .....	28.95	15.65
For Schedule 80 Nipples, Add	6.21	
For ASTM 120, Deduct	-0.82	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0208 EA 1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple .....	29.99	15.65
For Schedule 80 Nipples, Add	7.40	
For ASTM 120, Deduct	-0.97	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0209 EA 2" x 3" Long, Schedule 40 Galvanized Steel Nipple .....	38.92	20.16
For Schedule 80 Nipples, Add	9.80	
For ASTM 120, Deduct	-1.29	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0210 EA 2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple .....	61.24	25.10
For Schedule 80 Nipples, Add	26.95	
For ASTM 120, Deduct	-3.55	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0211 EA 3" x 3" Long, Schedule 40 Galvanized Steel Nipple .....	76.52	30.31
For Schedule 80 Nipples, Add	35.39	
For ASTM 120, Deduct	-4.66	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0212 EA 3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	24.79	13.39
For Schedule 80 Nipples, Add	5.30	
For ASTM 120, Deduct	-0.70	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0213 EA 1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	23.30	13.39
For Schedule 80 Nipples, Add	3.60	
For ASTM 120, Deduct	-0.47	
For Work In Restricted Working Space, Add	6.04	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0214	EA		3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.05 4.46 -0.59 6.04	13.39
22 11 16 00-0215	EA		1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.98 6.03 -0.79 6.51	14.52
22 11 16 00-0216	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.99 7.40 -0.97 7.05	15.65
22 11 16 00-0217	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.70 9.35 -1.23 7.05	15.65
22 11 16 00-0218	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.77 11.91 -1.57 9.10	20.16
22 11 16 00-0219	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	65.04 31.28 -4.12 11.28	25.10
22 11 16 00-0220	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	81.90 41.52 -5.46 13.64	30.31
22 11 16 00-0221	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.79 5.30 -0.70 6.04	13.39
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.30 3.60 -0.47 6.04	13.39
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.79 5.30 -0.70 6.04	13.39
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.98 6.03 -0.79 6.51	14.52
22 11 16 00-0225	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.99 7.40 -0.97 7.05	15.65
22 11 16 00-0226	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.70 9.35 -1.23 7.05	15.65
22 11 16 00-0227	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.86 12.02 -1.58 9.10	20.16
22 11 16 00-0228	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	65.04 31.28 -4.12 11.28	25.10
22 11 16 00-0229	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	81.90 41.52 -5.46 13.64	30.31
22 11 16 00-0230	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	98.86 55.73 -7.33 14.99	33.35
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	26.54 7.30 -0.96 6.04	13.39
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	23.94 4.33 -0.57 6.04	13.39
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	24.81 5.32 -0.70 6.04	13.39
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.18 7.40 -0.97 6.51	14.52

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	31.53	15.65
			<i>For Schedule 80 Nipples, Add</i>	9.15	
			<i>For ASTM 120, Deduct</i>	-1.20	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	33.42	15.65
			<i>For Schedule 80 Nipples, Add</i>	11.31	
			<i>For ASTM 120, Deduct</i>	-1.49	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	43.66	20.16
			<i>For Schedule 80 Nipples, Add</i>	15.21	
			<i>For ASTM 120, Deduct</i>	-2.00	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
22 11 16 00-0238	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	68.20	25.10
			<i>For Schedule 80 Nipples, Add</i>	34.88	
			<i>For ASTM 120, Deduct</i>	-4.59	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
22 11 16 00-0239	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	87.93	30.31
			<i>For Schedule 80 Nipples, Add</i>	48.39	
			<i>For ASTM 120, Deduct</i>	-6.37	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
22 11 16 00-0240	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple	104.80	33.35
			<i>For Schedule 80 Nipples, Add</i>	62.51	
			<i>For ASTM 120, Deduct</i>	-8.22	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
22 11 16 00-0241	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple	26.54	13.39
			<i>For Schedule 80 Nipples, Add</i>	7.30	
			<i>For ASTM 120, Deduct</i>	-0.96	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0242	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	23.94	13.39
			<i>For Schedule 80 Nipples, Add</i>	4.33	
			<i>For ASTM 120, Deduct</i>	-0.57	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0243	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	24.81	13.39
			<i>For Schedule 80 Nipples, Add</i>	5.32	
			<i>For ASTM 120, Deduct</i>	-0.70	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0244	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple	28.18	14.52
			<i>For Schedule 80 Nipples, Add</i>	7.40	
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
22 11 16 00-0245	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple	31.53	15.65
			<i>For Schedule 80 Nipples, Add</i>	9.15	
			<i>For ASTM 120, Deduct</i>	-1.20	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	33.42	15.65
			<i>For Schedule 80 Nipples, Add</i>	11.31	
			<i>For ASTM 120, Deduct</i>	-1.49	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple	43.66	20.16
			<i>For Schedule 80 Nipples, Add</i>	15.21	
			<i>For ASTM 120, Deduct</i>	-2.00	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple	68.20	25.10
			<i>For Schedule 80 Nipples, Add</i>	34.88	
			<i>For ASTM 120, Deduct</i>	-4.59	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple	87.93	30.31
			<i>For Schedule 80 Nipples, Add</i>	48.39	
			<i>For ASTM 120, Deduct</i>	-6.37	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple	104.80	33.35
			<i>For Schedule 80 Nipples, Add</i>	62.51	
			<i>For ASTM 120, Deduct</i>	-8.22	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple	27.26	13.39
			<i>For Schedule 80 Nipples, Add</i>	8.12	
			<i>For ASTM 120, Deduct</i>	-1.07	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0252	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	24.45	13.39
			<i>For Schedule 80 Nipples, Add</i>	4.91	
			<i>For ASTM 120, Deduct</i>	-0.65	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0253	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	25.74	13.39
			<i>For Schedule 80 Nipples, Add</i>	6.38	
			<i>For ASTM 120, Deduct</i>	-0.84	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0254	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple	29.05	14.52
			<i>For Schedule 80 Nipples, Add</i>	8.39	
			<i>For ASTM 120, Deduct</i>	-1.10	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
22 11 16 00-0255	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple	32.82	15.65
			<i>For Schedule 80 Nipples, Add</i>	10.62	
			<i>For ASTM 120, Deduct</i>	-1.40	
			<i>For Work In Restricted Working Space, Add</i>	7.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0256	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	34.66	15.65
			<i>For Schedule 80 Nipples, Add</i>	12.72	
			<i>For ASTM 120, Deduct</i>	-1.67	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
22 11 16 00-0257	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple	45.82	20.16
			<i>For Schedule 80 Nipples, Add</i>	17.67	
			<i>For ASTM 120, Deduct</i>	-2.33	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
22 11 16 00-0258	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	71.22	25.10
			<i>For Schedule 80 Nipples, Add</i>	38.33	
			<i>For ASTM 120, Deduct</i>	-5.04	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
22 11 16 00-0259	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple	90.37	30.31
			<i>For Schedule 80 Nipples, Add</i>	51.17	
			<i>For ASTM 120, Deduct</i>	-6.73	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
22 11 16 00-0260	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple	110.58	33.35
			<i>For Schedule 80 Nipples, Add</i>	69.10	
			<i>For ASTM 120, Deduct</i>	-9.09	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
22 11 16 00-0261	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple	48.58	13.39
			<i>For Schedule 80 Nipples, Add</i>	32.42	
			<i>For ASTM 120, Deduct</i>	-4.27	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0262	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	27.74	13.39
			<i>For Schedule 80 Nipples, Add</i>	8.66	
			<i>For ASTM 120, Deduct</i>	-1.14	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0263	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	29.86	13.39
			<i>For Schedule 80 Nipples, Add</i>	11.08	
			<i>For ASTM 120, Deduct</i>	-1.46	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0264	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple	34.01	14.52
			<i>For Schedule 80 Nipples, Add</i>	14.04	
			<i>For ASTM 120, Deduct</i>	-1.85	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
22 11 16 00-0265	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	38.60	15.65
			<i>For Schedule 80 Nipples, Add</i>	17.21	
			<i>For ASTM 120, Deduct</i>	-2.27	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
22 11 16 00-0266	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	40.82	15.65
			<i>For Schedule 80 Nipples, Add</i>	19.74	
			<i>For ASTM 120, Deduct</i>	-2.60	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
22 11 16 00-0267	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple	55.58	20.16
			<i>For Schedule 80 Nipples, Add</i>	28.80	
			<i>For ASTM 120, Deduct</i>	-3.79	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
22 11 16 00-0268	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	80.87	25.10
			<i>For Schedule 80 Nipples, Add</i>	49.33	
			<i>For ASTM 120, Deduct</i>	-6.49	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
22 11 16 00-0269	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple	105.96	30.31
			<i>For Schedule 80 Nipples, Add</i>	68.95	
			<i>For ASTM 120, Deduct</i>	-9.07	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
22 11 16 00-0270	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple	122.30	33.35
			<i>For Schedule 80 Nipples, Add</i>	82.46	
			<i>For ASTM 120, Deduct</i>	-10.85	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
22 11 16 00-0271	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple	33.70	13.39
			<i>For Schedule 80 Nipples, Add</i>	15.46	
			<i>For ASTM 120, Deduct</i>	-2.03	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0272	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	29.17	13.39
			<i>For Schedule 80 Nipples, Add</i>	10.29	
			<i>For ASTM 120, Deduct</i>	-1.35	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0273	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	30.92	13.39
			<i>For Schedule 80 Nipples, Add</i>	12.29	
			<i>For ASTM 120, Deduct</i>	-1.62	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
22 11 16 00-0274	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple	35.76	14.52
			<i>For Schedule 80 Nipples, Add</i>	16.04	
			<i>For ASTM 120, Deduct</i>	-2.11	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
22 11 16 00-0275	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	41.55	15.65
			<i>For Schedule 80 Nipples, Add</i>	20.58	
			<i>For ASTM 120, Deduct</i>	-2.71	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
22 11 16 00-0276	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	43.69	15.65
			<i>For Schedule 80 Nipples, Add</i>	23.02	
			<i>For ASTM 120, Deduct</i>	-3.03	
			<i>For Work In Restricted Working Space, Add</i>	7.05	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0277 EA 2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	59.87	20.16
For Schedule 80 Nipples, Add	33.69	
For ASTM 120, Deduct	-4.43	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0278 EA 2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple .....	86.92	25.10
For Schedule 80 Nipples, Add	56.22	
For ASTM 120, Deduct	-7.40	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0279 EA 3" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	114.47	30.31
For Schedule 80 Nipples, Add	78.65	
For ASTM 120, Deduct	-10.35	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0280 EA 4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	133.80	33.35
For Schedule 80 Nipples, Add	95.57	
For ASTM 120, Deduct	-12.57	
For Work In Restricted Working Space, Add	14.99	
22 11 16 00-0281 EA 3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	35.17	13.39
For Schedule 80 Nipples, Add	17.13	
For ASTM 120, Deduct	-2.25	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0282 EA 1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	30.41	13.39
For Schedule 80 Nipples, Add	11.71	
For ASTM 120, Deduct	-1.54	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0283 EA 3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	32.24	13.39
For Schedule 80 Nipples, Add	13.79	
For ASTM 120, Deduct	-1.82	
For Work In Restricted Working Space, Add	6.04	
22 11 16 00-0284 EA 1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	38.08	14.52
For Schedule 80 Nipples, Add	18.68	
For ASTM 120, Deduct	-2.46	
For Work In Restricted Working Space, Add	6.51	
22 11 16 00-0285 EA 1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple .....	45.18	15.65
For Schedule 80 Nipples, Add	24.72	
For ASTM 120, Deduct	-3.25	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0286 EA 1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple .....	46.60	15.65
For Schedule 80 Nipples, Add	26.33	
For ASTM 120, Deduct	-3.47	
For Work In Restricted Working Space, Add	7.05	
22 11 16 00-0287 EA 2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	64.23	20.16
For Schedule 80 Nipples, Add	38.66	
For ASTM 120, Deduct	-5.09	
For Work In Restricted Working Space, Add	9.10	
22 11 16 00-0288 EA 2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple .....	92.79	25.10
For Schedule 80 Nipples, Add	62.92	
For ASTM 120, Deduct	-8.28	
For Work In Restricted Working Space, Add	11.28	
22 11 16 00-0289 EA 3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	123.06	30.31
For Schedule 80 Nipples, Add	88.44	
For ASTM 120, Deduct	-11.64	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0290 EA 4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	145.40	33.35
For Schedule 80 Nipples, Add	108.79	
For ASTM 120, Deduct	-14.31	
For Work In Restricted Working Space, Add	14.99	
<b>22 11 16 00-0291 Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)</b>		
22 11 16 00-0292 EA 1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	21.91	10.01
For 300 LB Rating, Add	24.26	
For Work In Restricted Working Space, Add	4.51	
22 11 16 00-0293 EA 3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	23.70	11.28
For 300 LB Rating, Add	24.37	
For Work In Restricted Working Space, Add	5.05	
22 11 16 00-0294 EA 1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	26.33	12.55
For 300 LB Rating, Add	26.76	
For Work In Restricted Working Space, Add	5.64	
22 11 16 00-0295 EA 1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	32.87	14.24
For 300 LB Rating, Add	40.68	
For Work In Restricted Working Space, Add	6.38	
22 11 16 00-0296 EA 1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	39.60	15.93
For 300 LB Rating, Add	54.51	
For Work In Restricted Working Space, Add	7.20	
22 11 16 00-0297 EA 2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	50.33	20.30
For 300 LB Rating, Add	69.32	
For Work In Restricted Working Space, Add	9.14	
22 11 16 00-0298 EA 2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	83.83	30.03
For 300 LB Rating, Add	134.35	
For Work In Restricted Working Space, Add	13.53	
22 11 16 00-0299 EA 3", 150 LB, Galvanized Malleable Iron Square Head Plug.....	114.31	39.62
For 300 LB Rating, Add	190.36	
For Work In Restricted Working Space, Add	17.81	
22 11 16 00-0300 EA 4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	172.35	38.85
For 300 LB Rating, Add	391.30	
For Work In Restricted Working Space, Add	17.49	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0301	EA			5", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	270.10 715.17 18.25	40.59
22 11 16 00-0302	EA			6", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	289.83 773.00 19.08	42.35
<b>22 11 16 00-0303</b>				<b>Galvanized Malleable Iron Bushing</b> <small>(22 11 16 00-0013)</small>		
22 11 16 00-0304	EA			3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	57.28 11.95	26.51
22 11 16 00-0305	EA			1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	63.17 12.69	28.20
22 11 16 00-0306	EA			1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	64.31 13.36	29.74
22 11 16 00-0307	EA			1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	74.62 13.62	30.31
22 11 16 00-0308	EA			1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	74.21 14.29	31.72
22 11 16 00-0309	EA			1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	76.67 15.03	33.42
22 11 16 00-0310	EA			1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	87.41 14.64	32.57
22 11 16 00-0311	EA			1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	89.65 15.31	33.98
22 11 16 00-0312	EA			1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	88.32 16.05	35.67
22 11 16 00-0313	EA			1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	88.73 16.98	37.78
22 11 16 00-0314	EA			2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	105.14 17.07	37.92
22 11 16 00-0315	EA			2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	104.03 17.74	39.48
22 11 16 00-0316	EA			2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	104.03 18.48	41.03
22 11 16 00-0317	EA			2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	107.14 19.41	43.14
22 11 16 00-0318	EA			2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	105.32 20.43	45.39
22 11 16 00-0319	EA			2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	147.24 23.23	51.60
22 11 16 00-0320	EA			2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	149.69 23.97	53.30
22 11 16 00-0321	EA			2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	152.80 24.90	55.27
22 11 16 00-0322	EA			2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	154.90 25.92	57.66
22 11 16 00-0323	EA			2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	155.21 28.35	63.02
22 11 16 00-0324	EA			3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	187.39 28.58	63.44
22 11 16 00-0325	EA			3" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	189.84 29.31	65.13
22 11 16 00-0326	EA			3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	192.94 30.24	67.25
22 11 16 00-0327	EA			3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	194.54 31.26	69.51
22 11 16 00-0328	EA			3" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	194.20 33.69	74.87
22 11 16 00-0329	EA			3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	217.25 39.18	87.12
22 11 16 00-0330	EA			4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	284.64 27.46	60.96
22 11 16 00-0331	EA			4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	286.80 28.10	62.46
22 11 16 00-0332	EA			4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	289.55 28.93	64.33
22 11 16 00-0333	EA			4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	292.56 29.83	66.33
22 11 16 00-0334	EA			4" x 2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	277.00 31.99	71.08
22 11 16 00-0335	EA			4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	315.95 36.85	81.94
22 11 16 00-0336	EA			4" x 3", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	318.96 41.58	92.43
<b>22 11 16 00-0337</b>				<b>Galvanized Malleable Iron Floor Flange</b> <small>(22 11 16 00-0013)</small>		
Note: Excludes fasteners to floor or wall.						
22 11 16 00-0338	EA			1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	84.64	51.52
22 11 16 00-0339	EA			3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	92.56	56.39
22 11 16 00-0340	EA			1", 150 LB, Galvanized Malleable Iron Floor Flange.....	105.92	63.72
22 11 16 00-0341	EA			1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	110.00	65.98
22 11 16 00-0342	EA			1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	119.70	71.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0343 EA 2", 150 LB, Galvanized Malleable Iron Floor Flange.....	128.07	74.87
<b>22 11 16 00-0344 Galvanized Cast Iron Flanges</b> <small>(22 11 16 00-0013)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
22 11 16 00-0345 EA 3/4", 125 LB, Galvanized Cast Iron Flange.....	146.73	56.39
For Work In Restricted Working Space, Add	25.38	
22 11 16 00-0346 EA 1", 125 LB, Galvanized Cast Iron Flange.....	143.69	63.72
For Work In Restricted Working Space, Add	28.67	
22 11 16 00-0347 EA 1-1/4", 125 LB, Galvanized Cast Iron Flange.....	124.36	65.98
For Work In Restricted Working Space, Add	29.68	
22 11 16 00-0348 EA 1-1/2", 125 LB, Galvanized Cast Iron Flange.....	145.17	71.76
For Work In Restricted Working Space, Add	32.29	
22 11 16 00-0349 EA 2", 125 LB, Galvanized Cast Iron Flange.....	162.01	74.87
For Work In Restricted Working Space, Add	33.69	
22 11 16 00-0350 EA 2-1/2", 125 LB, Galvanized Cast Iron Flange.....	188.05	86.70
For Work In Restricted Working Space, Add	38.97	
22 11 16 00-0351 EA 3", 125 LB, Galvanized Cast Iron Flange.....	321.86	109.97
For Work In Restricted Working Space, Add	49.46	
22 11 16 00-0352 EA 4", 125 LB, Galvanized Cast Iron Flange.....	413.66	133.29
For Work In Restricted Working Space, Add	59.95	
22 11 16 00-0353 EA 5", 125 LB, Galvanized Cast Iron Flange.....	573.60	158.64
For Work In Restricted Working Space, Add	71.36	
22 11 16 00-0354 EA 6", 125 LB, Galvanized Cast Iron Flange.....	632.09	182.25
For Work In Restricted Working Space, Add	81.98	
22 11 16 00-0355 EA 8", 125 LB, Galvanized Cast Iron Flange.....	592.84	208.29
For Work In Restricted Working Space, Add	93.68	
<b>22 11 16 00-0356 Cut And Thread Existing In-Place Galvanized Steel Pipe</b> <small>(22 11 16 00-0013)</small>		
Note: For use when connecting pipe to an existing in-place system.		
22 11 16 00-0357 EA 1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	45.94	
For Work In Restricted Working Space, Add	13.78	
22 11 16 00-0358 EA 3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	50.53	
For Work In Restricted Working Space, Add	15.16	
22 11 16 00-0359 EA 1", Cut And Thread Existing In Place Galvanized Steel Pipe.....	55.13	
For Work In Restricted Working Space, Add	16.54	
22 11 16 00-0360 EA 1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	59.72	
For Work In Restricted Working Space, Add	17.92	
22 11 16 00-0361 EA 1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	62.79	
For Work In Restricted Working Space, Add	18.84	
22 11 16 00-0362 EA 2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	65.84	
For Work In Restricted Working Space, Add	19.75	
22 11 16 00-0363 EA 2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	68.91	
For Work In Restricted Working Space, Add	20.67	
22 11 16 00-0364 EA 3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	71.97	
For Work In Restricted Working Space, Add	21.59	
22 11 16 00-0365 EA 4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	75.03	
For Work In Restricted Working Space, Add	22.51	
22 11 16 00-0366 EA 6", Cut And Thread Existing In Place Galvanized Steel Pipe.....	81.16	
For Work In Restricted Working Space, Add	24.35	
22 11 16 00-0367 EA 8", Cut And Thread Existing In Place Galvanized Steel Pipe.....	87.28	
For Work In Restricted Working Space, Add	26.18	
<b>22 11 16 00-0368 Copper Pipe And Fittings</b> <small>(22 11 16)</small>		
Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.		
<b>22 11 16 00-0369 Copper Tube/Pipe</b> <small>(22 11 16 00-0368)</small>		
Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
<b>22 11 16 00-0370 Hard Drawn Type L Copper Tube/Pipe</b> <small>(22 11 16 00-0369)</small>		
22 11 16 00-0371 LF 1/4" Hard Drawn Type L Copper Tube/Pipe.....	6.89	3.45
For Medical/Oxygen Service Tubing, Add	0.14	
For Up To 20, Add	0.73	
For >150, Deduct	-0.17	
For Work In Restricted Working Space, Add	1.55	
22 11 16 00-0372 LF 3/8" Hard Drawn Type L Copper Tube/Pipe.....	7.91	3.58
For Medical/Oxygen Service Tubing, Add	0.20	
For Up To 20, Add	0.85	
For >150, Deduct	-0.25	
For Work In Restricted Working Space, Add	1.61	
22 11 16 00-0373 LF 1/2" Hard Drawn Type L Copper Tube/Pipe.....	8.63	3.74
For Medical/Oxygen Service Tubing, Add	0.24	
For Up To 20, Add	0.94	
For >150, Deduct	-0.30	
For Work In Restricted Working Space, Add	1.68	
22 11 16 00-0374 LF 3/4" Hard Drawn Type L Copper Tube/Pipe.....	10.86	3.97
For Medical/Oxygen Service Tubing, Add	0.39	
For Up To 20, Add	1.21	
For >150, Deduct	-0.49	
For Work In Restricted Working Space, Add	1.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0375 LF 1" Hard Drawn Type L Copper Tube/Pipe .....	13.78	4.45
For Medical/Oxygen Service Tubing, Add	0.57	
For Up To 20, Add	1.56	
For >150, Deduct	-0.71	
For Work In Restricted Working Space, Add	2.00	
22 11 16 00-0376 LF 1-1/4" Hard Drawn Type L Copper Tube/Pipe .....	19.72	6.63
For Medical/Oxygen Service Tubing, Add	0.78	
For Up To 20, Add	2.22	
For >150, Deduct	-0.98	
For Work In Restricted Working Space, Add	2.98	
22 11 16 00-0377 LF 1-1/2" Hard Drawn Type L Copper Tube/Pipe .....	23.68	7.40
For Medical/Oxygen Service Tubing, Add	1.01	
For Up To 20, Add	2.68	
For >150, Deduct	-1.26	
For Work In Restricted Working Space, Add	3.33	
22 11 16 00-0378 LF 2" Hard Drawn Type L Copper Tube/Pipe .....	33.59	9.13
For Medical/Oxygen Service Tubing, Add	1.59	
For Up To 20, Add	3.86	
For >150, Deduct	-1.99	
For Work In Restricted Working Space, Add	4.10	
22 11 16 00-0379 LF 2-1/2" Hard Drawn Type L Copper Tube/Pipe .....	61.00	10.73
For Medical/Oxygen Service Tubing, Add	2.30	
For Up To 20, Add	6.82	
For >150, Deduct	-2.88	
For Work In Restricted Working Space, Add	9.67	
22 11 16 00-0380 LF 3" Hard Drawn Type L Copper Tube/Pipe .....	76.28	12.65
For Medical/Oxygen Service Tubing, Add	3.07	
For Up To 20, Add	8.59	
For >150, Deduct	-3.84	
For Work In Restricted Working Space, Add	11.37	
22 11 16 00-0381 LF 4" Hard Drawn Type L Copper Tube/Pipe .....	111.18	14.27
For Medical/Oxygen Service Tubing, Add	5.47	
For Up To 20, Add	12.83	
For >150, Deduct	-6.84	
For Work In Restricted Working Space, Add	12.83	
22 11 16 00-0382 LF 5" Hard Drawn Type L Copper Tube/Pipe .....	169.94	16.38
For Medical/Oxygen Service Tubing, Add	9.66	
For Up To 20, Add	20.01	
For >150, Deduct	-12.08	
For Work In Restricted Working Space, Add	14.74	
22 11 16 00-0383 LF 6" Hard Drawn Type L Copper Tube/Pipe .....	235.07	25.39
For Medical/Oxygen Service Tubing, Add	12.72	
For Up To 20, Add	27.48	
For >150, Deduct	-15.89	
For Work In Restricted Working Space, Add	22.84	
22 11 16 00-0384 LF 8" Hard Drawn Type L Copper Tube/Pipe .....	384.18	28.23
For Medical/Oxygen Service Tubing, Add	23.96	
For Up To 20, Add	45.91	
For >150, Deduct	-29.96	
For Work In Restricted Working Space, Add	25.39	
<b>22 11 16 00-0385 Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0369)</b> .....	<b>7.50</b>	<b>3.71</b>
22 11 16 00-0386 LF 1/4" Hard Drawn Type K Copper Tube/Pipe .....	0.16	
For Medical/Oxygen Service Tubing, Add	0.80	
For Up To 20, Add	-0.20	
For >150, Deduct	1.67	
For Work In Restricted Working Space, Add	1.67	
22 11 16 00-0387 LF 3/8" Hard Drawn Type K Copper Tube/Pipe .....	9.83	3.86
For Medical/Oxygen Service Tubing, Add	0.28	
For Up To 20, Add	1.07	
For >150, Deduct	-0.35	
For Work In Restricted Working Space, Add	1.90	
22 11 16 00-0388 LF 1/2" Hard Drawn Type K Copper Tube/Pipe .....	10.30	4.01
For Medical/Oxygen Service Tubing, Add	0.33	
For Up To 20, Add	1.13	
For >150, Deduct	-0.41	
For Work In Restricted Working Space, Add	1.86	
22 11 16 00-0389 LF 3/4" Hard Drawn Type K Copper Tube/Pipe .....	14.57	4.26
For Medical/Oxygen Service Tubing, Add	0.59	
For Up To 20, Add	1.64	
For >150, Deduct	-0.74	
For Work In Restricted Working Space, Add	2.15	
22 11 16 00-0390 LF 1" Hard Drawn Type K Copper Tube/Pipe .....	17.47	4.79
For Medical/Oxygen Service Tubing, Add	0.79	
For Up To 20, Add	1.99	
For >150, Deduct	-0.98	
For Work In Restricted Working Space, Add	2.29	
22 11 16 00-0391 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe .....	23.06	7.12
For Medical/Oxygen Service Tubing, Add	0.98	
For Up To 20, Add	2.61	
For >150, Deduct	-1.23	
For Work In Restricted Working Space, Add	3.24	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0392	LF	1-1/2" Hard Drawn Type K Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.84 1.26 3.18 -1.57 3.65	7.95
22 11 16 00-0393	LF	2" Hard Drawn Type K Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	39.00 1.93 4.50 -2.41 4.47	9.81
22 11 16 00-0394	LF	2-1/2" Hard Drawn Type K Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	68.30 2.87 7.73 -3.59 9.71	11.53
22 11 16 00-0395	LF	3" Hard Drawn Type K Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	90.83 3.93 10.31 -4.91 12.51	13.60
22 11 16 00-0396	LF	4" Hard Drawn Type K Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	134.81 7.00 15.67 -8.76 14.18	15.33
22 11 16 00-0397	LF	5" Hard Drawn Type K Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	216.22 12.83 25.63 -16.04 16.74	17.61
22 11 16 00-0398	LF	6" Hard Drawn Type K Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	320.13 18.42 37.77 -23.02 26.98	27.29
22 11 16 00-0399	LF	8" Hard Drawn Type K Copper Tube/Pipe <i>For Medical/Oxygen Service Tubing, Add</i> <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	530.14 34.48 63.79 -43.10 29.73	30.34
<b>22 11 16 00-0400</b>		<b>Hard Drawn Type M Copper Tube/Pipe</b> <small>(22 11 16 00-0369)</small>		
22 11 16 00-0401	LF	3/8" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6.63 0.71 -0.20 1.40	3.23
22 11 16 00-0402	LF	1/2" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7.03 0.76 -0.22 1.44	3.37
22 11 16 00-0403	LF	3/4" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8.72 0.96 -0.36 1.54	3.57
22 11 16 00-0404	LF	1" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	11.26 1.26 -0.55 1.72	4.01
22 11 16 00-0405	LF	1-1/4" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.88 1.89 -0.81 2.64	5.97
22 11 16 00-0406	LF	1-1/2" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.24 2.40 -1.11 3.03	6.66
22 11 16 00-0407	LF	2" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.06 3.44 -1.75 3.76	8.21
22 11 16 00-0408	LF	2-1/2" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	55.88 6.22 -2.54 9.14	9.65
22 11 16 00-0409	LF	3" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	68.01 7.65 -3.38 10.26	11.37
22 11 16 00-0410	LF	4" Hard Drawn Type M Copper Tube/Pipe <i>For Up To 20, Add</i> <i>For &gt;150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	103.23 11.91 -6.33 11.97	12.84





<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Water Distribution</b>	<b>22 11</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0411 LF 5" Hard Drawn Type M Copper Tube/Pipe .....	168.99	14.74
For Up To 20, Add	19.97	
For >150, Deduct	-12.29	
For Work In Restricted Working Space, Add	13.82	
22 11 16 00-0412 LF 6" Hard Drawn Type M Copper Tube/Pipe .....	235.58	22.86
For Up To 20, Add	27.66	
For >150, Deduct	-16.42	
For Work In Restricted Working Space, Add	21.41	
22 11 16 00-0413 LF 8" Hard Drawn Type M Copper Tube/Pipe .....	389.71	25.40
For Up To 20, Add	46.75	
For >150, Deduct	-31.12	
For Work In Restricted Working Space, Add	23.55	
<b>22 11 16 00-0414 Soft Drawn Type L Copper Tube (22 11 16 00-0369)</b>		
22 11 16 00-0415 LF 1/4" Soft Drawn Type L Copper Tube .....	7.39	3.45
For Up To 20, Add	0.79	
For >150, Deduct	-0.22	
For Work In Restricted Working Space, Add	1.55	
22 11 16 00-0416 LF 3/8" Soft Drawn Type L Copper Tube .....	8.85	3.58
For Up To 20, Add	0.97	
For >150, Deduct	-0.35	
For Work In Restricted Working Space, Add	1.61	
22 11 16 00-0417 LF 1/2" Soft Drawn Type L Copper Tube .....	10.27	3.74
For Up To 20, Add	1.14	
For >150, Deduct	-0.47	
For Work In Restricted Working Space, Add	1.68	
22 11 16 00-0418 LF 5/8" Soft Drawn Type L Copper Tube .....	11.76	3.86
For Up To 20, Add	1.33	
For >150, Deduct	-0.60	
For Work In Restricted Working Space, Add	1.73	
22 11 16 00-0419 LF 3/4" Soft Drawn Type L Copper Tube .....	13.08	3.97
For Up To 20, Add	1.49	
For >150, Deduct	-0.71	
For Work In Restricted Working Space, Add	1.79	
22 11 16 00-0420 LF 1" Soft Drawn Type L Copper Tube .....	16.55	4.45
For Up To 20, Add	1.90	
For >150, Deduct	-0.99	
For Work In Restricted Working Space, Add	2.00	
22 11 16 00-0421 LF 1-1/4" Soft Drawn Type L Copper Tube .....	22.92	6.63
For Up To 20, Add	2.62	
For >150, Deduct	-1.30	
For Work In Restricted Working Space, Add	2.98	
22 11 16 00-0422 LF 1-1/2" Soft Drawn Type L Copper Tube .....	28.70	7.40
For Up To 20, Add	3.31	
For >150, Deduct	-1.76	
For Work In Restricted Working Space, Add	3.33	
22 11 16 00-0423 LF 2" Soft Drawn Type L Copper Tube .....	41.68	9.13
For Up To 20, Add	4.87	
For >150, Deduct	-2.80	
For Work In Restricted Working Space, Add	4.10	
<b>22 11 16 00-0424 Soft Drawn Type K Copper Tube (22 11 16 00-0369)</b>		
22 11 16 00-0425 LF 1/4" Soft Drawn Type K Copper Tube .....	7.62	3.45
For Up To 20, Add	0.82	
For >150, Deduct	-0.25	
For Work In Restricted Working Space, Add	1.55	
22 11 16 00-0426 LF 3/8" Soft Drawn Type K Copper Tube .....	9.57	3.58
For Up To 20, Add	1.06	
For >150, Deduct	-0.42	
For Work In Restricted Working Space, Add	1.61	
22 11 16 00-0427 LF 1/2" Soft Drawn Type K Copper Tube .....	10.87	3.74
For Up To 20, Add	1.22	
For >150, Deduct	-0.53	
For Work In Restricted Working Space, Add	1.68	
22 11 16 00-0428 LF 5/8" Soft Drawn Type K Copper Tube .....	12.05	3.86
For Up To 20, Add	1.36	
For >150, Deduct	-0.63	
For Work In Restricted Working Space, Add	1.73	
22 11 16 00-0429 LF 3/4" Soft Drawn Type K Copper Tube .....	15.67	3.97
For Up To 20, Add	1.81	
For >150, Deduct	-0.97	
For Work In Restricted Working Space, Add	1.79	
22 11 16 00-0430 LF 1" Soft Drawn Type K Copper Tube .....	19.59	4.45
For Up To 20, Add	2.28	
For >150, Deduct	-1.29	
For Work In Restricted Working Space, Add	2.00	
22 11 16 00-0431 LF 1-1/4" Soft Drawn Type K Copper Tube .....	25.14	6.63
For Up To 20, Add	2.89	
For >150, Deduct	-1.52	
For Work In Restricted Working Space, Add	2.98	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0432	LF	1-1/2"	Soft Drawn Type K Copper Tube ..... For Up To 20, Add For >150, Deduct For Work In Restricted Working Space, Add	32.23 3.75 -2.11 3.33	7.40
22 11 16 00-0433	LF	2"	Soft Drawn Type K Copper Tube..... For Up To 20, Add For >150, Deduct For Work In Restricted Working Space, Add	46.54 5.48 -3.29 4.10	9.13
22 11 16 00-0434	LF	2-1/2"	Soft Drawn Type K Copper Tube ..... For Up To 20, Add For >150, Deduct For Work In Restricted Working Space, Add	65.69 7.80 -4.93 4.92	10.95
22 11 16 00-0435	LF	3"	Soft Drawn Type K Copper Tube..... For Up To 20, Add For >150, Deduct For Work In Restricted Working Space, Add	87.93 10.51 -6.86 5.81	12.92
22 11 16 00-0436	EA		<b>Copper And Brass Fittings</b> (22 11 16 00-0368) Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437	EA		<b>90 Degree Copper Elbows</b> (22 11 16 00-0436)		
22 11 16 00-0438	EA	1/4"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	35.02 4.81 -3.28 4.59 1.76 9.19	20.43
22 11 16 00-0439	EA	3/8"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	41.39 5.74 -3.91 5.51 1.86 11.03	24.50
22 11 16 00-0440	EA	1/2"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	52.03 7.65 -5.13 7.58 0.60 15.16	33.68
22 11 16 00-0441	EA	3/4"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	66.17 9.59 -6.45 9.42 1.35 18.84	41.96
22 11 16 00-0442	EA	1"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	83.31 11.67 -7.92 11.26 3.31 22.51	50.07
22 11 16 00-0443	EA	1-1/4"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	93.53 12.79 -8.73 12.17 4.95 24.35	54.21
22 11 16 00-0444	EA	1-1/2"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	108.16 14.29 -9.85 13.32 7.74 26.65	59.26
22 11 16 00-0445	EA	2"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Street Fitting, Add For Work In Restricted Working Space, Add	134.80 16.69 -11.72 14.93 14.10 29.86	66.45
22 11 16 00-0446	EA	2-1/2"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	168.94 18.60 -13.52 15.23 30.45	67.68
22 11 16 00-0447	EA	3"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	216.35 22.94 -16.88 18.19 36.37	80.92
22 11 16 00-0448	EA	4"	90 Degree Copper Elbow ..... For Silver Solder Instead Of 95/5 Solder, Add For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct For Brazed Fittings Instead Of 95/5 Solder, Add For Work In Restricted Working Space, Add	402.75 37.34 -28.74 25.80 51.60	114.76



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0449	EA		5" 90 Degree Copper Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,202.15 83.65 -71.88 35.32 70.63	157.05
22 11 16 00-0450	EA		6" 90 Degree Copper Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,631.28 115.82 -98.69 51.39 102.77	228.53
22 11 16 00-0451	EA		8" 90 Degree Copper Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,224.29 306.89 -284.05 68.52 137.03	304.66
<b>22 11 16 00-0452      90 Degree Brass Elbows (22 11 16 00-0436)</b>					
22 11 16 00-0453	EA		1/2" Drop Ear 90 Degree Brass Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.97 8.05 -5.53 7.58 15.16	33.68
22 11 16 00-0454	EA		3/4" Drop Ear 90 Degree Brass Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.32 10.80 -7.66 9.42 18.84	41.96
22 11 16 00-0455	EA		1/2" Flanged Sink 90 Degree Brass Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.74 8.44 -5.91 7.58 15.16	33.68
22 11 16 00-0456	EA		3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.87 6.22 -4.38 5.51 11.03	24.50
22 11 16 00-0457	EA		1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.64 8.09 -5.56 7.58 15.16	33.68
22 11 16 00-0458	EA		3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	80.59 10.31 -7.17 9.42 18.84	41.96
22 11 16 00-0459	EA		1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.86 14.10 -10.35 11.26 22.51	50.07
<b>22 11 16 00-0460      Reducing 90 Degree Copper Elbows (22 11 16 00-0436)</b>					
22 11 16 00-0461	EA		1/2" Reducing 90 Degree Copper Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.73 8.19 -5.66 7.58 15.16	33.68
22 11 16 00-0462	EA		3/4" Reducing 90 Degree Copper Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.44 9.85 -6.71 9.42 18.84	41.96
22 11 16 00-0463	EA		1" Reducing 90 Degree Copper Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.92 12.05 -8.30 11.26 22.51	50.07
22 11 16 00-0464	EA		1-1/4" Reducing 90 Degree Copper Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.60 14.20 -10.14 12.17 24.35	54.21
22 11 16 00-0465	EA		1-1/2" Reducing 90 Degree Copper Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.96 15.98 -11.54 13.32 26.65	59.26
22 11 16 00-0466	EA		2" Reducing 90 Degree Copper Elbow ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.06 18.51 -13.53 14.93 29.86	66.45

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0467			<b>45 Degree Copper Elbows</b> (22 11 16 00-0436)		
22 11 16 00-0468	EA		1/4" 45 Degree Copper Elbow .....38.82	38.82	20.43
			For Silver Solder Instead Of 95/5 Solder, Add	5.00	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.47	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
			For Street Fitting, Add	3.28	
			For Work In Restricted Working Space, Add	9.19	
22 11 16 00-0469	EA		3/8" 45 Degree Copper Elbow .....43.77	43.77	24.50
			For Silver Solder Instead Of 95/5 Solder, Add	5.86	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.03	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
			For Street Fitting, Add	2.81	
			For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0470	EA		1/2" 45 Degree Copper Elbow .....53.29	53.29	33.68
			For Silver Solder Instead Of 95/5 Solder, Add	7.72	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.19	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.58	
			For Street Fitting, Add	1.10	
			For Work In Restricted Working Space, Add	15.16	
22 11 16 00-0471	EA		3/4" 45 Degree Copper Elbow .....67.51	67.51	41.96
			For Silver Solder Instead Of 95/5 Solder, Add	9.65	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.52	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.42	
			For Street Fitting, Add	1.89	
			For Work In Restricted Working Space, Add	18.84	
22 11 16 00-0472	EA		1" 45 Degree Copper Elbow .....86.82	86.82	50.07
			For Silver Solder Instead Of 95/5 Solder, Add	11.85	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.09	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.26	
			For Street Fitting, Add	4.71	
			For Work In Restricted Working Space, Add	22.51	
22 11 16 00-0473	EA		1-1/4" 45 Degree Copper Elbow .....97.12	97.12	54.21
			For Silver Solder Instead Of 95/5 Solder, Add	12.97	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	12.17	
			For Street Fitting, Add	6.38	
			For Work In Restricted Working Space, Add	24.35	
22 11 16 00-0474	EA		1-1/2" 45 Degree Copper Elbow .....108.41	108.41	59.26
			For Silver Solder Instead Of 95/5 Solder, Add	14.30	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.86	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.32	
			For Street Fitting, Add	7.84	
			For Work In Restricted Working Space, Add	26.65	
22 11 16 00-0475	EA		2" 45 Degree Copper Elbow .....132.21	132.21	66.45
			For Silver Solder Instead Of 95/5 Solder, Add	16.56	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.59	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.93	
			For Work In Restricted Working Space, Add	29.86	
22 11 16 00-0476	EA		2-1/2" 45 Degree Copper Elbow .....168.12	168.12	67.68
			For Silver Solder Instead Of 95/5 Solder, Add	18.56	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.48	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.23	
			For Work In Restricted Working Space, Add	30.45	
22 11 16 00-0477	EA		3" 45 Degree Copper Elbow .....220.09	220.09	80.92
			For Silver Solder Instead Of 95/5 Solder, Add	23.13	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.07	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.19	
			For Work In Restricted Working Space, Add	36.37	
22 11 16 00-0478	EA		4" 45 Degree Copper Elbow .....382.78	382.78	114.76
			For Silver Solder Instead Of 95/5 Solder, Add	36.34	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.74	
			For Brazed Fittings Instead Of 95/5 Solder, Add	25.80	
			For Work In Restricted Working Space, Add	51.60	
22 11 16 00-0479	EA		5" 45 Degree Copper Elbow .....1,051.79	1,051.79	157.05
			For Silver Solder Instead Of 95/5 Solder, Add	76.13	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-64.36	
			For Brazed Fittings Instead Of 95/5 Solder, Add	35.32	
			For Work In Restricted Working Space, Add	70.63	
22 11 16 00-0480	EA		6" 45 Degree Copper Elbow .....1,629.08	1,629.08	228.53
			For Silver Solder Instead Of 95/5 Solder, Add	115.71	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-98.58	
			For Brazed Fittings Instead Of 95/5 Solder, Add	51.39	
			For Work In Restricted Working Space, Add	102.77	
22 11 16 00-0481	EA		8" 45 Degree Copper Elbow .....4,828.22	4,828.22	304.66
			For Silver Solder Instead Of 95/5 Solder, Add	287.09	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-264.25	
			For Brazed Fittings Instead Of 95/5 Solder, Add	68.52	
			For Work In Restricted Working Space, Add	137.03	

22 11 16 00-0482 **Straight Copper And Brass Tees** (22 11 16 00-0436)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0483	EA		1/4" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.13 7.35 -5.05 6.89 13.78	30.63
22 11 16 00-0484	EA		3/8" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.52 8.64 -5.88 8.27 16.54	36.75
22 11 16 00-0485	EA		1/2" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.16 11.62 -7.79 11.49 22.97	51.14
22 11 16 00-0486	EA		3/4" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.12 14.55 -9.80 14.24 28.48	63.40
22 11 16 00-0487	EA		1" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.91 17.93 -12.26 17.00 34.00	75.65
22 11 16 00-0488	EA		1-1/4" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	148.40 19.67 -13.55 18.38 36.75	81.77
22 11 16 00-0489	EA		1-1/2" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.41 21.94 -15.28 19.98 39.97	88.82
22 11 16 00-0490	EA		2" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.36 25.63 -18.12 22.51 45.02	100.15
22 11 16 00-0491	EA		2-1/2" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.47 28.85 -21.24 22.84 45.68	101.50
22 11 16 00-0492	EA		3" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	366.93 36.67 -27.51 27.49 54.98	122.23
22 11 16 00-0493	EA		4" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	701.06 60.71 -47.88 38.49 76.97	171.15
22 11 16 00-0494	EA		5" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,804.04 125.31 -107.75 52.66 105.32	234.17
22 11 16 00-0495	EA		6" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,500.80 176.50 -150.77 77.19 154.37	343.28
22 11 16 00-0496	EA		8" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,346.93 485.86 -451.61 102.78 205.55	457.06
22 11 16 00-0497	EA		1/2" Cast Bronze Drop Ear Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.49 12.28 -8.45 11.49 22.97	51.14
22 11 16 00-0498	<b>Reducing Copper Tees</b> (22 11 16 00-0436)				
22 11 16 00-0499	EA		3/8" Reducing Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.62 8.08 -5.63 7.35 14.70	32.62

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0500 EA 1/2" Reducing Copper Tee.....	81.78	45.94
For Silver Solder Instead Of 95/5 Solder, Add	10.98	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.53	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.34	
For Work In Restricted Working Space, Add	20.67	
22 11 16 00-0501 EA 3/4" Reducing Copper Tee.....	95.38	59.26
For Silver Solder Instead Of 95/5 Solder, Add	13.65	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.21	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.32	
For Work In Restricted Working Space, Add	26.65	
22 11 16 00-0502 EA 1" Reducing Copper Tee.....	128.05	71.51
For Silver Solder Instead Of 95/5 Solder, Add	17.12	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.76	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.08	
For Work In Restricted Working Space, Add	32.16	
22 11 16 00-0503 EA 1-1/4" Reducing Copper Tee.....	148.01	77.64
For Silver Solder Instead Of 95/5 Solder, Add	19.04	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.22	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.46	
For Work In Restricted Working Space, Add	34.91	
22 11 16 00-0504 EA 1-1/2" Reducing Copper Tee.....	171.80	84.84
For Silver Solder Instead Of 95/5 Solder, Add	21.30	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.95	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.07	
For Work In Restricted Working Space, Add	38.13	
22 11 16 00-0505 EA 2" Reducing Copper Tee.....	207.04	94.94
For Silver Solder Instead Of 95/5 Solder, Add	24.59	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.47	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.36	
For Work In Restricted Working Space, Add	42.72	
22 11 16 00-0506 EA 2-1/2" Reducing Copper Tee.....	278.31	97.84
For Silver Solder Instead Of 95/5 Solder, Add	28.58	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-21.25	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.99	
For Work In Restricted Working Space, Add	43.99	
22 11 16 00-0507 EA 3" Reducing Copper Tee.....	385.43	112.79
For Silver Solder Instead Of 95/5 Solder, Add	36.19	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.73	
For Brazed Fittings Instead Of 95/5 Solder, Add	25.38	
For Work In Restricted Working Space, Add	50.75	
22 11 16 00-0508 EA 4" Reducing Copper Tee.....	663.89	139.15
For Silver Solder Instead Of 95/5 Solder, Add	54.06	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-43.63	
For Brazed Fittings Instead Of 95/5 Solder, Add	31.30	
For Work In Restricted Working Space, Add	62.60	
<b>22 11 16 00-0509 Copper Couplings (22 11 16 00-0436)</b>		
22 11 16 00-0510 EA 1/4" Copper Coupling.....	31.51	20.43
For Silver Solder Instead Of 95/5 Solder, Add	4.64	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.11	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
For Work In Restricted Working Space, Add	9.19	
22 11 16 00-0511 EA 3/8" Copper Coupling.....	37.92	24.50
For Silver Solder Instead Of 95/5 Solder, Add	5.57	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.73	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0512 EA 1/2" Copper Coupling.....	51.49	33.68
For Silver Solder Instead Of 95/5 Solder, Add	7.63	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.58	
For Work In Restricted Working Space, Add	15.16	
22 11 16 00-0513 EA 3/4" Copper Coupling.....	64.75	41.96
For Silver Solder Instead Of 95/5 Solder, Add	9.52	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.38	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.42	
For Work In Restricted Working Space, Add	18.84	
22 11 16 00-0514 EA 1" Copper Coupling.....	78.93	50.07
For Silver Solder Instead Of 95/5 Solder, Add	11.45	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.70	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.26	
For Work In Restricted Working Space, Add	22.51	
22 11 16 00-0515 EA 1-1/4" Copper Coupling.....	88.01	54.21
For Silver Solder Instead Of 95/5 Solder, Add	12.52	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.17	
For Work In Restricted Working Space, Add	24.35	
22 11 16 00-0516 EA 1-1/2" Copper Coupling.....	97.89	59.26
For Silver Solder Instead Of 95/5 Solder, Add	13.78	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.34	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.32	
For Work In Restricted Working Space, Add	26.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0517	EA		2" Copper Coupling.....	114.62	65.85
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.69	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.71	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.93	
			<i>For Work In Restricted Working Space, Add</i>	29.86	
22 11 16 00-0518	EA		2-1/2" Copper Coupling.....	126.11	64.00
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.89	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.10	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.38	
			<i>For Work In Restricted Working Space, Add</i>	28.76	
22 11 16 00-0519	EA		3" Copper Coupling.....	156.76	77.54
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	19.40	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.62	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	17.34	
			<i>For Work In Restricted Working Space, Add</i>	34.68	
22 11 16 00-0520	EA		4" Copper Coupling.....	245.74	104.33
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	27.80	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	23.26	
			<i>For Work In Restricted Working Space, Add</i>	46.52	
22 11 16 00-0521	EA		5" Copper Coupling.....	400.42	190.33
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	41.17	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-30.59	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	31.72	
			<i>For Work In Restricted Working Space, Add</i>	63.44	
22 11 16 00-0522	EA		6" Copper Coupling.....	622.41	206.82
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	62.14	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-46.63	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	46.52	
			<i>For Work In Restricted Working Space, Add</i>	93.05	
22 11 16 00-0523	EA		8" Copper Coupling.....	1,423.84	274.21
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	112.36	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-91.78	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	61.75	
			<i>For Work In Restricted Working Space, Add</i>	123.50	
<b>22 11 16 00-0524</b>			<b>Reducing Copper Couplings</b> <small>(22 11 16 00-0436)</small>		
22 11 16 00-0525	EA		3/8" Reducing Copper Coupling.....	32.55	20.37
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.69	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.16	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.59	
			<i>For Work In Restricted Working Space, Add</i>	9.19	
22 11 16 00-0526	EA		1/2" Reducing Copper Coupling.....	45.66	29.09
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.65	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.47	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.55	
			<i>For Work In Restricted Working Space, Add</i>	13.10	
22 11 16 00-0527	EA		3/4" Reducing Copper Coupling.....	60.13	37.83
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.50	
			<i>For Work In Restricted Working Space, Add</i>	17.00	
22 11 16 00-0528	EA		1" Reducing Copper Coupling.....	75.18	45.94
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.65	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.20	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.34	
			<i>For Work In Restricted Working Space, Add</i>	20.67	
22 11 16 00-0529	EA		1-1/4" Reducing Copper Coupling.....	86.82	52.06
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.15	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.25	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.71	
			<i>For Work In Restricted Working Space, Add</i>	23.43	
22 11 16 00-0530	EA		1-1/2" Reducing Copper Coupling.....	99.44	56.66
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.47	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.22	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.75	
			<i>For Work In Restricted Working Space, Add</i>	25.50	
22 11 16 00-0531	EA		2" Reducing Copper Coupling.....	116.53	62.79
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.24	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.54	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.13	
			<i>For Work In Restricted Working Space, Add</i>	28.25	
22 11 16 00-0532	EA		2-1/2" Reducing Copper Coupling.....	141.44	64.43
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.73	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.90	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.49	
			<i>For Work In Restricted Working Space, Add</i>	28.97	
22 11 16 00-0533	EA		3" Reducing Copper Coupling.....	166.84	74.72
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	19.48	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.91	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.71	
			<i>For Work In Restricted Working Space, Add</i>	33.41	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0534 EA 4" Reducing Copper Coupling.....	256.72	97.84
For Silver Solder Instead Of 95/5 Solder, Add	27.50	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.17	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.99	
For Work In Restricted Working Space, Add	43.99	
22 11 16 00-0535 EA 5" Reducing Copper Coupling.....	634.96	136.33
For Silver Solder Instead Of 95/5 Solder, Add	52.19	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-41.97	
For Brazed Fittings Instead Of 95/5 Solder, Add	30.66	
For Work In Restricted Working Space, Add	61.33	
22 11 16 00-0536 EA 6" Reducing Copper Coupling.....	941.63	183.28
For Silver Solder Instead Of 95/5 Solder, Add	74.57	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-60.83	
For Brazed Fittings Instead Of 95/5 Solder, Add	41.24	
For Work In Restricted Working Space, Add	82.47	
22 11 16 00-0537 EA 8" Reducing Copper Coupling.....	1,813.78	267.06
For Silver Solder Instead Of 95/5 Solder, Add	130.73	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-110.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	60.06	
For Work In Restricted Working Space, Add	120.12	
<b>22 11 16 00-0538 Male Copper Adapters (22 11 16 00-0436)</b>		
22 11 16 00-0539 EA 1/4" Male Copper Adapter.....	46.13	19.90
For Silver Solder Instead Of 95/5 Solder, Add	5.37	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
For Work In Restricted Working Space, Add	9.19	
22 11 16 00-0540 EA 3/8" Male Copper Adapter.....	44.48	24.50
For Silver Solder Instead Of 95/5 Solder, Add	5.90	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0541 EA 1/2" Male Copper Adapter.....	49.07	30.63
For Silver Solder Instead Of 95/5 Solder, Add	7.05	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.75	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.89	
For Work In Restricted Working Space, Add	13.78	
22 11 16 00-0542 EA 3/4" Male Copper Adapter.....	61.97	38.28
For Silver Solder Instead Of 95/5 Solder, Add	8.76	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.93	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.50	
For Work In Restricted Working Space, Add	17.00	
22 11 16 00-0543 EA 1" Male Copper Adapter.....	79.34	44.41
For Silver Solder Instead Of 95/5 Solder, Add	10.55	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.26	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.88	
For Work In Restricted Working Space, Add	19.76	
22 11 16 00-0544 EA 1-1/4" Male Copper Adapter.....	96.21	50.53
For Silver Solder Instead Of 95/5 Solder, Add	12.47	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.64	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.49	
For Work In Restricted Working Space, Add	22.97	
22 11 16 00-0545 EA 1-1/2" Male Copper Adapter.....	110.26	58.19
For Silver Solder Instead Of 95/5 Solder, Add	14.24	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.88	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.09	
For Work In Restricted Working Space, Add	26.18	
22 11 16 00-0546 EA 2" Male Copper Adapter.....	150.68	74.26
For Silver Solder Instead Of 95/5 Solder, Add	18.71	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.12	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.77	
For Work In Restricted Working Space, Add	33.54	
22 11 16 00-0547 EA 2-1/2" Male Copper Adapter.....	264.60	96.47
For Silver Solder Instead Of 95/5 Solder, Add	27.63	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.43	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.59	
For Work In Restricted Working Space, Add	43.19	
22 11 16 00-0548 EA 3" Male Copper Adapter.....	351.46	128.64
For Silver Solder Instead Of 95/5 Solder, Add	36.75	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-27.16	
For Brazed Fittings Instead Of 95/5 Solder, Add	28.76	
For Work In Restricted Working Space, Add	57.52	
22 11 16 00-0549 EA 4" Male Copper Adapter.....	526.13	180.45
For Silver Solder Instead Of 95/5 Solder, Add	53.37	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-39.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	40.60	
For Work In Restricted Working Space, Add	81.20	
<b>22 11 16 00-0550 Female Copper Adapters (22 11 16 00-0436)</b>		
22 11 16 00-0551 EA 1/4" Female Copper Adapter.....	40.53	19.90
For Silver Solder Instead Of 95/5 Solder, Add	5.09	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.56	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.59	
For Work In Restricted Working Space, Add	9.19	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0552	EA		3/8" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.11 6.03 -4.19 5.51 11.03	24.50
22 11 16 00-0553	EA		1/2" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.95 7.14 -4.84 6.89 13.78	30.63
22 11 16 00-0554	EA		3/4" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.51 8.84 -6.01 8.50 17.00	38.28
22 11 16 00-0555	EA		1" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.52 10.66 -7.37 9.88 19.76	44.41
22 11 16 00-0556	EA		1-1/4" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.55 12.63 -8.81 11.49 22.97	50.53
22 11 16 00-0557	EA		1-1/2" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.25 14.89 -10.53 13.09 26.18	58.19
22 11 16 00-0558	EA		2" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.59 19.21 -13.62 16.77 33.54	74.26
22 11 16 00-0559	EA		2-1/2" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	302.77 28.39 -21.76 19.88 39.76	88.82
22 11 16 00-0560	EA		3" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	478.51 43.10 -33.51 28.76 57.52	128.64
22 11 16 00-0561			<b>Wrot Copper, Solder Union</b> (22 11 16 00-0436)		
22 11 16 00-0562	EA		1/4" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.64 6.61 -4.77 5.51 11.03	24.50
22 11 16 00-0563	EA		3/8" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.96 7.79 -5.57 6.66 13.32	29.55
22 11 16 00-0564	EA		1/2" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.07 8.97 -6.21 8.27 16.54	36.75
22 11 16 00-0565	EA		3/4" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.93 10.28 -7.14 9.42 18.84	41.96
22 11 16 00-0566	EA		1" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	104.50 12.73 -8.98 11.26 22.51	50.07
22 11 16 00-0567	EA		1-1/4" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.35 14.54 -10.40 12.40 24.81	55.13
22 11 16 00-0568	EA		1-1/2" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.02 16.79 -12.20 13.78 27.56	61.26

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0569 EA 2" Wrot Copper, Solder Union.....	212.77	73.50
For Silver Solder Instead Of 95/5 Solder, Add	21.66	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.15	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.54	
For Work In Restricted Working Space, Add	33.08	
22 11 16 00-0570 EA 2-1/2" Wrot Copper, Solder Union.....	400.81	80.92
For Silver Solder Instead Of 95/5 Solder, Add	32.16	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.19	
For Work In Restricted Working Space, Add	36.37	
22 11 16 00-0571 EA 3" Wrot Copper, Solder Union.....	895.45	114.76
For Silver Solder Instead Of 95/5 Solder, Add	61.97	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-53.37	
For Brazed Fittings Instead Of 95/5 Solder, Add	25.80	
For Work In Restricted Working Space, Add	51.60	
<b>22 11 16 00-0572 Cast Bronze, Solder Union (22 11 16 00-0436)</b>		
22 11 16 00-0573 EA 1/4" Cast Bronze, Solder Union.....	66.71	24.50
For Silver Solder Instead Of 95/5 Solder, Add	7.01	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.17	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0574 EA 3/8" Cast Bronze, Solder Union.....	74.58	29.55
For Silver Solder Instead Of 95/5 Solder, Add	8.17	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.95	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.66	
For Work In Restricted Working Space, Add	13.32	
22 11 16 00-0575 EA 1/2" Cast Bronze, Solder Union.....	71.19	36.75
For Silver Solder Instead Of 95/5 Solder, Add	9.07	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.32	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.27	
For Work In Restricted Working Space, Add	16.54	
22 11 16 00-0576 EA 3/4" Cast Bronze, Solder Union.....	82.93	41.96
For Silver Solder Instead Of 95/5 Solder, Add	10.43	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.29	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.42	
For Work In Restricted Working Space, Add	18.84	
22 11 16 00-0577 EA 1" Cast Bronze, Solder Union.....	109.70	50.07
For Silver Solder Instead Of 95/5 Solder, Add	12.99	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.24	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.26	
For Work In Restricted Working Space, Add	22.51	
22 11 16 00-0578 EA 1-1/4" Cast Bronze, Solder Union.....	139.57	55.13
For Silver Solder Instead Of 95/5 Solder, Add	15.25	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.11	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.40	
For Work In Restricted Working Space, Add	24.81	
22 11 16 00-0579 EA 1-1/2" Cast Bronze, Solder Union.....	166.86	61.26
For Silver Solder Instead Of 95/5 Solder, Add	17.53	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.78	
For Work In Restricted Working Space, Add	27.56	
22 11 16 00-0580 EA 2" Cast Bronze, Solder Union.....	238.03	73.50
For Silver Solder Instead Of 95/5 Solder, Add	22.93	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-17.41	
For Brazed Fittings Instead Of 95/5 Solder, Add	16.54	
For Work In Restricted Working Space, Add	33.08	
22 11 16 00-0581 EA 2-1/2" Cast Bronze, Solder Union.....	400.80	80.92
For Silver Solder Instead Of 95/5 Solder, Add	32.16	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-26.10	
For Brazed Fittings Instead Of 95/5 Solder, Add	18.19	
For Work In Restricted Working Space, Add	36.37	
22 11 16 00-0582 EA 3" Cast Bronze, Solder Union.....	895.45	114.76
For Silver Solder Instead Of 95/5 Solder, Add	61.97	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-53.37	
For Brazed Fittings Instead Of 95/5 Solder, Add	25.80	
For Work In Restricted Working Space, Add	51.60	
<b>22 11 16 00-0583 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0436)</b>		
22 11 16 00-0584 EA 1/4" Cast Bronze, Solder X Female Threaded Union.....	77.61	24.50
For Silver Solder Instead Of 95/5 Solder, Add	7.56	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.51	
For Work In Restricted Working Space, Add	11.03	
22 11 16 00-0585 EA 3/8" Cast Bronze, Solder X Female Threaded Union.....	86.68	29.55
For Silver Solder Instead Of 95/5 Solder, Add	8.78	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.55	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.66	
For Work In Restricted Working Space, Add	13.32	
22 11 16 00-0586 EA 1/2" Cast Bronze, Solder X Female Threaded Union.....	88.71	36.75
For Silver Solder Instead Of 95/5 Solder, Add	9.95	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.19	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.27	
For Work In Restricted Working Space, Add	16.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0587	EA		3/4" Cast Bronze, Solder X Female Threaded Union.....	108.56	41.96
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.71	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.57	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.42	
			<i>For Work In Restricted Working Space, Add</i>	18.84	
22 11 16 00-0588	EA		1" Cast Bronze, Solder X Female Threaded Union .....	170.24	50.07
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.02	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.26	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.26	
			<i>For Work In Restricted Working Space, Add</i>	22.51	
22 11 16 00-0589	EA		1-1/4" Cast Bronze, Solder X Female Threaded Union .....	260.10	55.13
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.27	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-17.14	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.40	
			<i>For Work In Restricted Working Space, Add</i>	24.81	
22 11 16 00-0590	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union .....	316.64	61.26
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	25.02	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.43	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.78	
			<i>For Work In Restricted Working Space, Add</i>	27.56	
22 11 16 00-0591	EA		2" Cast Bronze, Solder X Female Threaded Union .....	490.70	73.50
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	35.56	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-30.05	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.54	
			<i>For Work In Restricted Working Space, Add</i>	33.08	
22 11 16 00-0592	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union .....	842.46	80.92
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	54.25	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-48.19	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	18.19	
			<i>For Work In Restricted Working Space, Add</i>	36.37	
<b>22 11 16 00-0593 Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0436)</b>					
22 11 16 00-0594	EA		1/4" Cast Bronze, Solder X Male Threaded Union.....	67.87	24.50
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.07	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.51	
			<i>For Work In Restricted Working Space, Add</i>	11.03	
22 11 16 00-0595	EA		3/8" Cast Bronze, Solder X Male Threaded Union.....	80.73	29.55
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.48	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.26	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.66	
			<i>For Work In Restricted Working Space, Add</i>	13.32	
22 11 16 00-0596	EA		1/2" Cast Bronze, Solder X Male Threaded Union.....	81.63	36.75
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.59	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.84	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.27	
			<i>For Work In Restricted Working Space, Add</i>	16.54	
22 11 16 00-0597	EA		3/4" Cast Bronze, Solder X Male Threaded Union.....	102.57	41.96
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.41	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.27	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.42	
			<i>For Work In Restricted Working Space, Add</i>	18.84	
22 11 16 00-0598	EA		1" Cast Bronze, Solder X Male Threaded Union.....	172.98	50.07
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.15	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.40	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.26	
			<i>For Work In Restricted Working Space, Add</i>	22.51	
22 11 16 00-0599	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union.....	204.18	55.13
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	18.48	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-14.34	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.40	
			<i>For Work In Restricted Working Space, Add</i>	24.81	
22 11 16 00-0600	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union.....	219.49	61.26
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	20.16	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-15.57	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.78	
			<i>For Work In Restricted Working Space, Add</i>	27.56	
22 11 16 00-0601	EA		2" Cast Bronze, Solder X Male Threaded Union.....	306.26	73.50
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	26.34	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.83	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.54	
			<i>For Work In Restricted Working Space, Add</i>	33.08	
22 11 16 00-0602	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union.....	695.67	80.92
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	46.91	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-40.85	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	18.19	
			<i>For Work In Restricted Working Space, Add</i>	36.37	
<b>22 11 16 00-0603 Copper Caps (22 11 16 00-0436)</b>					
22 11 16 00-0604	EA		1/4" Copper Cap .....	11.44	6.73
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.58	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.08	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.52	
			<i>For Work In Restricted Working Space, Add</i>	3.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0605 EA 3/8" Copper Cap .....	14.26	7.96
For Silver Solder Instead Of 95/5 Solder, Add	1.93	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.32	
For Brazed Fittings Instead Of 95/5 Solder, Add	1.82	
For Work In Restricted Working Space, Add	3.64	
22 11 16 00-0606 EA 1/2" Copper Cap .....	17.77	11.03
For Silver Solder Instead Of 95/5 Solder, Add	2.56	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	2.50	
For Work In Restricted Working Space, Add	5.00	
22 11 16 00-0607 EA 3/4" Copper Cap .....	22.77	13.63
For Silver Solder Instead Of 95/5 Solder, Add	3.21	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.17	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.11	
For Work In Restricted Working Space, Add	6.22	
22 11 16 00-0608 EA 1" Copper Cap .....	29.56	16.38
For Silver Solder Instead Of 95/5 Solder, Add	3.95	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.72	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.71	
For Work In Restricted Working Space, Add	7.43	
22 11 16 00-0609 EA 1-1/4" Copper Cap .....	33.21	17.61
For Silver Solder Instead Of 95/5 Solder, Add	4.34	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.00	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.02	
For Work In Restricted Working Space, Add	8.03	
22 11 16 00-0610 EA 1-1/2" Copper Cap .....	38.67	19.29
For Silver Solder Instead Of 95/5 Solder, Add	4.86	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.40	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.40	
For Work In Restricted Working Space, Add	8.79	
22 11 16 00-0611 EA 2" Copper Cap .....	47.54	20.02
For Silver Solder Instead Of 95/5 Solder, Add	5.40	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.89	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.54	
For Work In Restricted Working Space, Add	9.07	
22 11 16 00-0612 EA 2-1/2" Copper Cap .....	86.06	23.40
For Silver Solder Instead Of 95/5 Solder, Add	7.86	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.08	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.33	
For Work In Restricted Working Space, Add	10.66	
22 11 16 00-0613 EA 3" Copper Cap .....	117.83	30.03
For Silver Solder Instead Of 95/5 Solder, Add	10.44	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.16	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.82	
For Work In Restricted Working Space, Add	13.64	
22 11 16 00-0614 EA 4" Copper Cap .....	205.39	45.39
For Silver Solder Instead Of 95/5 Solder, Add	17.15	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.71	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.32	
For Work In Restricted Working Space, Add	20.64	
22 11 16 00-0615 EA 5" Cast Bronze Cap .....	1,066.05	69.93
For Silver Solder Instead Of 95/5 Solder, Add	63.90	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-58.60	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.89	
For Work In Restricted Working Space, Add	31.79	
22 11 16 00-0616 EA 6" Cast Bronze Cap .....	2,067.03	101.78
For Silver Solder Instead Of 95/5 Solder, Add	118.77	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-111.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	23.12	
For Work In Restricted Working Space, Add	46.25	
22 11 16 00-0617 EA 8" Cast Bronze Cap .....	2,633.28	135.62
For Silver Solder Instead Of 95/5 Solder, Add	152.22	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-141.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	30.83	
For Work In Restricted Working Space, Add	61.67	
<b>22 11 16 00-0618 Copper Crosses (22 11 16 00-0436)</b>		
22 11 16 00-0619 EA 1/2" Copper Cross .....	110.28	62.03
For Silver Solder Instead Of 95/5 Solder, Add	14.82	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.17	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.96	
For Work In Restricted Working Space, Add	27.92	
22 11 16 00-0620 EA 3/4" Copper Cross .....	149.09	77.12
For Silver Solder Instead Of 95/5 Solder, Add	19.01	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.23	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.34	
For Work In Restricted Working Space, Add	34.68	
22 11 16 00-0621 EA 1" Copper Cross .....	195.07	92.06
For Silver Solder Instead Of 95/5 Solder, Add	23.57	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	20.73	
For Work In Restricted Working Space, Add	41.45	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0622	EA		1-1/4" Copper Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	231.22 26.51 -19.03 22.42 44.83	99.67
	22 11 16 00-0623	EA		1-1/2" Copper Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	280.10 30.36 -22.18 24.53 49.06	108.97
	22 11 16 00-0624	EA		2" Copper Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	403.49 38.50 -29.34 27.49 54.98	122.23
	22 11 16 00-0625	EA		2-1/2" Copper Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	710.61 55.83 -45.68 30.45 60.91	135.34
<b>22 11 16 00-0626</b>				<b>Cast Bronze Crosses</b> <small>(22 11 16 00-0436)</small>		
	22 11 16 00-0627	EA		3/8" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.66 11.30 -7.92 10.15 20.30	45.11
	22 11 16 00-0628	EA		1/2" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.73 14.99 -10.34 13.96 27.92	62.03
	22 11 16 00-0629	EA		3/4" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.79 19.35 -13.57 17.34 34.68	77.12
	22 11 16 00-0630	EA		1" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.43 24.14 -17.23 20.73 41.45	92.06
	22 11 16 00-0631	EA		1-1/4" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.57 27.32 -19.85 22.42 44.83	99.67
	22 11 16 00-0632	EA		1-1/2" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	303.41 31.52 -23.35 24.53 49.06	108.97
	22 11 16 00-0633	EA		2" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	441.01 40.38 -31.21 27.49 54.98	122.23
	22 11 16 00-0634	EA		2-1/2" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	812.13 60.91 -50.76 30.45 60.91	135.34
<b>22 11 16 00-0635</b>				<b>Flexible Corrugated Copper Supply Line</b> <small>(22 11 16 00-0436)</small>		
	22 11 16 00-0636	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line .....	114.67	41.96
	22 11 16 00-0637	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line .....	120.91	41.96
	22 11 16 00-0638	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line .....	103.44	41.96
	22 11 16 00-0639	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line .....	110.51	41.96
	22 11 16 00-0640	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line .....	116.75	41.96
	22 11 16 00-0641	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line .....	120.91	41.96
<b>22 11 16 00-0642</b>				<b>Crimped Copper Fittings</b> <small>(22 11 16 00-0368)</small> Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
<b>22 11 16 00-0643</b>				<b>Crimped Copper 90 Degree Elbows</b> <small>(22 11 16 00-0642)</small>		
	22 11 16 00-0644	EA		1/2" Crimped Copper 90 Degree Elbow .....	32.87	18.38
	22 11 16 00-0645	EA		3/4" Crimped Copper 90 Degree Elbow .....	40.39	20.98
	22 11 16 00-0646	EA		1" Crimped Copper 90 Degree Elbow .....	55.53	24.96
	22 11 16 00-0647	EA		1-1/4" Crimped Copper 90 Degree Elbow .....	77.72	27.56
	22 11 16 00-0648	EA		1-1/2" Crimped Copper 90 Degree Elbow .....	114.83	30.63
	22 11 16 00-0649	EA		2" Crimped Copper 90 Degree Elbow .....	150.87	36.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0650 EA 2-1/2" Crimped Copper 90 Degree Elbow.....	342.41	42.87
22 11 16 00-0651 EA 3" Crimped Copper 90 Degree Elbow.....	426.45	50.99
22 11 16 00-0652 EA 4" Crimped Copper 90 Degree Elbow.....	533.94	67.38
<b>22 11 16 00-0653 Crimped Copper 45 Degree Elbows (22 11 16 00-0642)</b>		
22 11 16 00-0654 EA 1/2" Crimped Copper 45 Degree Elbow.....	33.74	18.38
22 11 16 00-0655 EA 3/4" Crimped Copper 45 Degree Elbow.....	38.98	20.98
22 11 16 00-0656 EA 1" Crimped Copper 45 Degree Elbow.....	61.90	24.96
22 11 16 00-0657 EA 1-1/4" Crimped Copper 45 Degree Elbow.....	76.31	27.56
22 11 16 00-0658 EA 1-1/2" Crimped Copper 45 Degree Elbow.....	102.65	30.63
22 11 16 00-0659 EA 2" Crimped Copper 45 Degree Elbow.....	134.45	36.75
22 11 16 00-0660 EA 2-1/2" Crimped Copper 45 Degree Elbow.....	248.01	42.87
22 11 16 00-0661 EA 3" Crimped Copper 45 Degree Elbow.....	339.03	50.99
22 11 16 00-0662 EA 4" Crimped Copper 45 Degree Elbow.....	465.56	67.38
<b>22 11 16 00-0663 Crimped Copper Straight Tees (22 11 16 00-0642)</b>		
22 11 16 00-0664 EA 1/2" Crimped Copper Straight Tee.....	49.46	27.56
22 11 16 00-0665 EA 3/4" Crimped Copper Straight Tee.....	68.66	36.29
22 11 16 00-0666 EA 1" Crimped Copper Straight Tee.....	86.27	40.27
22 11 16 00-0667 EA 1-1/4" Crimped Copper Straight Tee.....	105.65	41.34
22 11 16 00-0668 EA 1-1/2" Crimped Copper Straight Tee.....	155.22	47.01
22 11 16 00-0669 EA 2" Crimped Copper Straight Tee.....	187.43	55.13
22 11 16 00-0670 EA 2-1/2" Crimped Copper Straight Tee.....	440.06	64.31
22 11 16 00-0671 EA 3" Crimped Copper Straight Tee.....	544.33	76.57
22 11 16 00-0672 EA 4" Crimped Copper Straight Tee.....	754.23	101.06
<b>22 11 16 00-0673 Crimped Copper Reducing Tees (22 11 16 00-0642)</b>		
22 11 16 00-0674 EA 3/4" Crimped Copper Reducing Tee.....	61.43	26.19
22 11 16 00-0675 EA 1" Crimped Copper Reducing Tee.....	90.83	34.46
22 11 16 00-0676 EA 1-1/4" Crimped Copper Reducing Tee.....	97.34	38.28
22 11 16 00-0677 EA 1-1/2" Crimped Copper Reducing Tee.....	134.22	39.35
22 11 16 00-0678 EA 2" Crimped Copper Reducing Tee.....	162.13	44.56
22 11 16 00-0679 EA 2-1/2" Crimped Copper Reducing Tee.....	480.19	50.53
22 11 16 00-0680 EA 3" Crimped Copper Reducing Tee.....	585.98	61.26
22 11 16 00-0681 EA 4" Crimped Copper Reducing Tee.....	684.65	81.62
<b>22 11 16 00-0682 Crimped Copper Couplings (22 11 16 00-0642)</b>		
22 11 16 00-0683 EA 1/2" Crimped Copper Coupling.....	32.34	18.38
22 11 16 00-0684 EA 3/4" Crimped Copper Coupling.....	38.63	20.98
22 11 16 00-0685 EA 1" Crimped Copper Coupling.....	52.16	24.96
22 11 16 00-0686 EA 1-1/4" Crimped Copper Coupling.....	59.54	27.56
22 11 16 00-0687 EA 1-1/2" Crimped Copper Coupling.....	79.85	30.63
22 11 16 00-0688 EA 2" Crimped Copper Coupling.....	98.41	36.75
22 11 16 00-0689 EA 2-1/2" Crimped Copper Coupling.....	202.82	42.87
22 11 16 00-0690 EA 3" Crimped Copper Coupling.....	252.96	50.99
22 11 16 00-0691 EA 4" Crimped Copper Coupling.....	345.99	67.38
<b>22 11 16 00-0692 Crimped Copper Reducing Couplings (22 11 16 00-0642)</b>		
22 11 16 00-0693 EA 3/4" Crimped Copper Reducing Coupling.....	47.92	17.46
22 11 16 00-0694 EA 1" Crimped Copper Reducing Coupling.....	54.78	19.90
22 11 16 00-0695 EA 1-1/4" Crimped Copper Reducing Coupling.....	71.89	23.73
22 11 16 00-0696 EA 1-1/2" Crimped Copper Reducing Coupling.....	92.69	26.19
22 11 16 00-0697 EA 2" Crimped Copper Reducing Coupling.....	103.70	29.09
22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling.....	215.68	34.76
22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling.....	269.96	40.88
22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling.....	350.42	54.06
<b>22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)</b>		
22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter.....	33.40	18.38
22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter.....	41.98	20.98
22 11 16 00-0704 EA 1" Crimped Copper Male Adapter.....	56.94	24.96
22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter.....	83.90	27.56
22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter.....	105.65	30.63
22 11 16 00-0707 EA 2" Crimped Copper Male Adapter.....	170.11	36.75
22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter.....	342.41	42.87
22 11 16 00-0709 EA 3" Crimped Copper Male Adapter.....	426.45	50.99
22 11 16 00-0710 EA 4" Crimped Copper Male Adapter.....	506.06	67.38
<b>22 11 16 00-0711 Crimped Copper Female Adapters (22 11 16 00-0642)</b>		
22 11 16 00-0712 EA 1/2" Crimped Copper Female Adapter.....	34.62	18.38
22 11 16 00-0713 EA 3/4" Crimped Copper Female Adapter.....	42.88	20.98
22 11 16 00-0714 EA 1" Crimped Copper Female Adapter.....	58.71	24.96
22 11 16 00-0715 EA 1-1/4" Crimped Copper Female Adapter.....	89.21	27.56



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0716	EA		1-1/2" Crimped Copper Female Adapter.....	115.54	30.63
22 11 16 00-0717	EA		2" Crimped Copper Female Adapter.....	173.30	36.75
<b>22 11 16 00-0718</b>			<b>Crimped Copper Caps (22 11 16 00-0642)</b>		
22 11 16 00-0719	EA		1/2" Crimped Copper Cap.....	24.02	9.19
22 11 16 00-0720	EA		3/4" Crimped Copper Cap.....	33.38	10.72
22 11 16 00-0721	EA		1" Crimped Copper Cap.....	45.05	12.25
22 11 16 00-0722	EA		1-1/4" Crimped Copper Cap.....	50.88	13.78
22 11 16 00-0723	EA		1-1/2" Crimped Copper Cap.....	70.54	15.77
22 11 16 00-0724	EA		2" Crimped Copper Cap.....	84.43	18.38
22 11 16 00-0725	EA		2-1/2" Crimped Copper Cap.....	214.00	21.44
22 11 16 00-0726	EA		3" Crimped Copper Cap.....	268.41	25.57
22 11 16 00-0727	EA		4" Crimped Copper Cap.....	357.20	33.68
<b>22 11 16 00-0728</b>			<b>C x F NPT Crimped Bronze Unions (22 11 16 00-0642)</b>		
22 11 16 00-0729	EA		1/2" C x F NPT Crimped Bronze Union.....	67.55	24.96
22 11 16 00-0730	EA		3/4" C x F NPT Crimped Bronze Union.....	84.59	30.78
22 11 16 00-0731	EA		1" C x F NPT Crimped Bronze Union.....	119.23	36.90
22 11 16 00-0732	EA		1-1/4" C x F NPT Crimped Bronze Union.....	144.92	42.57
22 11 16 00-0733	EA		1-1/2" C x F NPT Crimped Bronze Union.....	189.66	41.66
22 11 16 00-0734	EA		2" C x F NPT Crimped Bronze Union.....	258.86	60.33
<b>22 11 16 00-0735</b>			<b>C x C Crimped Bronze Unions (22 11 16 00-0642)</b>		
22 11 16 00-0736	EA		1/2" C x C Bronze Crimped Union.....	65.00	18.38
22 11 16 00-0737	EA		3/4" C x C Bronze Crimped Union.....	80.48	20.98
22 11 16 00-0738	EA		1" C x C Bronze Crimped Union.....	115.93	24.96
22 11 16 00-0739	EA		1-1/4" C x C Bronze Crimped Union.....	153.32	27.56
22 11 16 00-0740	EA		1-1/2" C x C Bronze Crimped Union.....	198.02	30.63
22 11 16 00-0741	EA		2" C x C Bronze Crimped Union.....	303.48	36.75
<b>22 11 16 00-0742</b>			<b>C x Flange Crimped Bronze Flange (22 11 16 00-0642)</b>		
22 11 16 00-0743	EA		2-1/2" C x Flange Crimped Bronze Flange.....	596.07	42.87
22 11 16 00-0744	EA		3" C x Flange Crimped Bronze Flange.....	648.92	50.99
22 11 16 00-0745	EA		4" C x Flange Crimped Bronze Flange.....	741.79	67.38
<b>22 11 16 00-0746</b>			<b>Field Installed FKM Seals (22 11 16 00-0642)</b>		
			Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
22 11 16 00-0747	EA		1/2" Field Installed FKM Seal.....	9.90	
			Note: To be used in conjunction with fittings.		
22 11 16 00-0748	EA		3/4" Field Installed FKM Seal.....	12.63	
			Note: To be used in conjunction with fittings.		
22 11 16 00-0749	EA		1" Field Installed FKM Seal.....	14.50	
			Note: To be used in conjunction with fittings.		
22 11 16 00-0750	EA		1-1/4" Field Installed FKM Seal.....	16.70	
			Note: To be used in conjunction with fittings.		
22 11 16 00-0751	EA		1-1/2" Field Installed FKM Seal.....	23.89	
			Note: To be used in conjunction with fittings.		
22 11 16 00-0752	EA		2" Field Installed FKM Seal.....	26.49	
			Note: To be used in conjunction with fittings.		
22 11 16 00-0753	EA		2-1/2" Field Installed FKM Seal.....	40.28	
			Note: To be used in conjunction with fittings.		
22 11 16 00-0754	EA		3" Field Installed FKM Seal.....	46.16	
			Note: To be used in conjunction with fittings.		
22 11 16 00-0755	EA		4" Field Installed FKM Seal.....	63.06	
			Note: To be used in conjunction with fittings.		
<b>22 11 16 00-0756</b>			<b>Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0368)</b>		
22 11 16 00-0757	EA		Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	15.31	
22 11 16 00-0758	EA		3/4", Cut And Prepare Existing In Place Copper Pipe.....	16.54	
22 11 16 00-0759	EA		1", Cut And Prepare Existing In Place Copper Pipe.....	18.61	
22 11 16 00-0760	EA		1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	19.52	
22 11 16 00-0761	EA		1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	20.67	
22 11 16 00-0762	EA		2", Cut And Prepare Existing In Place Copper Pipe.....	22.75	
22 11 16 00-0763	EA		2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	24.51	
22 11 16 00-0764	EA		3", Cut And Prepare Existing In Place Copper Pipe.....	28.94	
22 11 16 00-0765	EA		4", Cut And Prepare Existing In Place Copper Pipe.....	39.05	
22 11 16 00-0766	EA		6", Cut And Prepare Existing In Place Copper Pipe.....	55.81	
22 11 16 00-0767	EA		8", Cut And Prepare Existing In Place Copper Pipe.....	74.43	
<b>22 11 16 00-0768</b>			<b>Sweat Brass Companion Flanges (22 11 16 00-0368)</b>		
			Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
22 11 16 00-0769	EA		1" Sweat Brass Companion Flange.....	82.80	23.54
22 11 16 00-0770	EA		1-1/4" Sweat Brass Companion Flange.....	90.40	25.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0771 EA 1-1/2" Sweat Brass Companion Flange .....	128.37	28.20
22 11 16 00-0772 EA 2" Sweat Brass Companion Flange .....	171.13	31.29
22 11 16 00-0773 EA 2-1/2" Sweat Brass Companion Flange .....	212.22	37.64
22 11 16 00-0774 EA 3" Sweat Brass Companion Flange .....	235.27	49.34
22 11 16 00-0775 EA 4" Sweat Brass Companion Flange .....	313.14	58.79
22 11 16 00-0776 EA 5" Sweat Brass Companion Flange .....	578.38	65.67
22 11 16 00-0777 EA 6" Sweat Brass Companion Flange .....	669.11	95.41
22 11 16 00-0778 EA 8" Copper Companion Flange.....	1,533.83	136.10
<b>22 11 16 00-0779 Brass Compression Fittings (22 11 16 00-0368)</b>		
<b>22 11 16 00-0780 Brass Compression Unions (22 11 16 00-0779)</b>		
22 11 16 00-0781 EA 1/4" Brass Compression Union .....	25.88	16.54
22 11 16 00-0782 EA 3/8" Brass Compression Union .....	26.18	16.54
22 11 16 00-0783 EA 1/2" Brass Compression Union .....	27.09	16.54
22 11 16 00-0784 EA 5/8" Brass Compression Union .....	27.52	16.54
22 11 16 00-0785 EA 3/4" Brass Compression Union .....	35.67	16.54
22 11 16 00-0786 EA 3/8" x 1/4" Brass Compression Union .....	26.38	16.54
22 11 16 00-0787 EA 1/2" x 3/8" Brass Compression Union .....	27.16	16.54
22 11 16 00-0788 EA 5/8" x 3/8" Brass Compression Union .....	27.70	16.54
22 11 16 00-0789 EA 5/8" x 1/2" Brass Compression Union .....	28.57	16.54
<b>22 11 16 00-0790 Brass Compression Union Elbows (22 11 16 00-0779)</b>		
22 11 16 00-0791 EA 1/4" Brass Compression Union Elbow .....	27.09	16.54
22 11 16 00-0792 EA 3/8" Brass Compression Union Elbow .....	27.58	16.54
22 11 16 00-0793 EA 1/2" Brass Compression Union Elbow .....	28.67	16.54
22 11 16 00-0794 EA 5/8" Brass Compression Union Elbow .....	30.35	16.54
22 11 16 00-0795 EA 3/4" Brass Compression Union Elbow .....	36.90	16.54
22 11 16 00-0796 EA 3/8" x 1/4" Brass Compression Union Elbow .....	27.58	16.54
22 11 16 00-0797 EA 1/2" x 3/8" Brass Compression Union Elbow .....	28.67	16.54
22 11 16 00-0798 EA 5/8" x 3/8" Brass Compression Union Elbow .....	28.97	16.54
22 11 16 00-0799 EA 5/8" x 1/2" Brass Compression Union Elbow .....	33.90	16.54
<b>22 11 16 00-0800 Brass Compression Union Tees (22 11 16 00-0779)</b>		
22 11 16 00-0801 EA 1/4" Brass Compression Union Tee.....	27.46	16.54
22 11 16 00-0802 EA 3/8" Brass Compression Union Tee.....	28.49	16.54
22 11 16 00-0803 EA 1/2" Brass Compression Union Tee.....	29.57	16.54
22 11 16 00-0804 EA 5/8" Brass Compression Union Tee.....	32.99	16.54
22 11 16 00-0805 EA 3/4" Brass Compression Union Tee.....	44.83	16.54
22 11 16 00-0806 EA 3/8" x 3/8" x 1/4" Brass Compression Union Tee.....	29.21	16.54
22 11 16 00-0807 EA 1/2" x 1/2" x 3/8" Brass Compression Union Tee.....	34.77	16.54
22 11 16 00-0808 EA 5/8" x 5/8" x 3/8" Brass Compression Union Tee.....	34.23	16.54
22 11 16 00-0809 EA 5/8" x 5/8" x 1/2" Brass Compression Union Tee.....	34.86	16.54
<b>22 11 16 00-0810 Brass Compression Male Connectors (22 11 16 00-0779)</b>		
22 11 16 00-0811 EA 1/4" Brass Compression Male Connector .....	25.66	16.54
22 11 16 00-0812 EA 3/8" Brass Compression Male Connector .....	26.06	16.54
22 11 16 00-0813 EA 1/2" Brass Compression Male Connector .....	26.74	16.54
22 11 16 00-0814 EA 5/8" Brass Compression Male Connector .....	27.77	16.54
22 11 16 00-0815 EA 3/4" Brass Compression Male Connector .....	32.39	16.38
<b>22 11 16 00-0816 Brass Compression Female Connectors (22 11 16 00-0779)</b>		
22 11 16 00-0817 EA 1/4" Brass Compression Female Connector .....	26.09	16.54
22 11 16 00-0818 EA 3/8" Brass Compression Female Connector .....	26.61	16.54
22 11 16 00-0819 EA 1/2" Brass Compression Female Connector .....	27.48	16.54
22 11 16 00-0820 EA 5/8" Brass Compression Female Connector .....	27.98	16.54
22 11 16 00-0821 EA 3/4" Brass Compression Female Connector .....	39.94	16.23
<b>22 11 16 00-0822 Dielectric Fittings (22 11 16 00-0368)</b>		
<b>22 11 16 00-0823 Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)</b>		
22 11 16 00-0824 EA 1/2" Copper x Female Iron Pipe Thread Dielectric Union .....	62.43	36.75
22 11 16 00-0825 EA 3/4" Copper x Female Iron Pipe Thread Dielectric Union .....	70.09	41.96
22 11 16 00-0826 EA 1" Copper x Female Iron Pipe Thread Dielectric Union .....	81.78	46.11
22 11 16 00-0827 EA 1-1/4" Copper x Female Iron Pipe Thread Dielectric Union .....	96.94	50.75
22 11 16 00-0828 EA 1-1/2" Copper x Female Iron Pipe Thread Dielectric Union .....	115.09	56.39
22 11 16 00-0829 EA 2" Copper x Female Iron Pipe Thread Dielectric Union .....	144.49	67.68
<b>22 11 16 00-0830 Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)</b>		
22 11 16 00-0831 EA 1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	67.04	36.75
22 11 16 00-0832 EA 3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	77.68	41.96
22 11 16 00-0833 EA 1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	91.79	46.11
22 11 16 00-0834 EA 1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	110.22	50.75





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0835	EA		1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union .....	131.52	56.39
22 11 16 00-0836	EA		2" Female Brass Thread x Iron Pipe Thread Dielectric Union .....	163.76	67.68
<b>22 11 16 00-0837</b>			<b>Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)</b>		
22 11 16 00-0838	EA		1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	64.12	36.75
22 11 16 00-0839	EA		3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	72.86	41.96
22 11 16 00-0840	EA		1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	82.51	46.11
22 11 16 00-0841	EA		1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	94.37	50.75
22 11 16 00-0842	EA		1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	112.55	56.39
22 11 16 00-0843	EA		2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	142.45	67.68
<b>22 11 16 00-0844</b>			<b>Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)</b>		
22 11 16 00-0845	EA		2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	355.69	173.97
22 11 16 00-0846	EA		3" Copper x Female Iron Pipe Thread Dielectric Flange.....	445.81	219.08
22 11 16 00-0847	EA		4" Copper x Female Iron Pipe Thread Dielectric Flange.....	623.97	298.17
<b>22 11 16 00-0848</b>			<b>Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)</b>		
22 11 16 00-0849	EA		2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	357.57	173.97
22 11 16 00-0850	EA		3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	460.93	219.08
22 11 16 00-0851	EA		4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	798.32	298.17
<b>22 11 16 00-0852</b>			<b>Brass Push-Fit Fittings (22 11 16)</b>		
22 11 16 00-0853	EA		1/4" x 1/4" Brass Push-Fit Coupling .....	31.08	15.31
			Note: (Sharkbite)		
22 11 16 00-0854	EA		3/8" x 3/8" Brass Push-Fit Coupling .....	37.83	16.33
			Note: (Sharkbite)		
22 11 16 00-0855	EA		1/2" x 1/2" Brass Push-Fit Coupling .....	39.61	18.38
			Note: (Sharkbite)		
22 11 16 00-0856	EA		5/8" x 5/8" Brass Push-Fit Coupling .....	45.17	19.60
			Note: (Sharkbite)		
22 11 16 00-0857	EA		3/4" x 3/4" Brass Push-Fit Coupling .....	46.30	20.93
			Note: (Sharkbite)		
22 11 16 00-0858	EA		1" x 1" Brass Push-Fit Coupling.....	63.86	25.01
			Note: (Sharkbite)		
22 11 16 00-0859	EA		1/2" x 3/8" Brass Push-Fit Reducing Coupling.....	38.72	17.35
			Note: (Sharkbite)		
22 11 16 00-0860	EA		3/4" x 5/8" Brass Push-Fit Reducing Coupling.....	44.52	18.99
			Note: (Sharkbite)		
22 11 16 00-0861	EA		1" x 3/4" Brass Push-Fit Reducing Coupling.....	64.86	22.97
			Note: (Sharkbite)		
22 11 16 00-0862	EA		1/4" x 1/4" Brass Push-Fit Elbow .....	32.25	15.31
			Note: (Sharkbite)		
22 11 16 00-0863	EA		3/8" x 3/8" Brass Push-Fit Elbow .....	42.83	16.33
			Note: (Sharkbite)		
22 11 16 00-0864	EA		1/2" x 1/2" Brass Push-Fit Elbow .....	40.25	18.38
			Note: (Sharkbite)		
22 11 16 00-0865	EA		5/8" x 5/8" Brass Push-Fit Elbow .....	48.07	19.60
			Note: (Sharkbite)		
22 11 16 00-0866	EA		3/4" x 3/4" Brass Push-Fit Elbow .....	45.47	20.93
			Note: (Sharkbite)		
22 11 16 00-0867	EA		1" x 1" Brass Push-Fit Elbow .....	64.50	25.01
			Note: (Sharkbite)		
22 11 16 00-0868	EA		1/2" x 3/8" Brass Push-Fit Reducing Elbow .....	38.19	17.35
			Note: (Sharkbite)		
22 11 16 00-0869	EA		3/4" x 1/2" Brass Push-Fit Reducing Elbow .....	42.45	18.99
			Note: (Sharkbite)		
22 11 16 00-0870	EA		1" x 3/4" Brass Push-Fit Reducing Elbow .....	79.16	22.97
			Note: (Sharkbite)		
22 11 16 00-0871	EA		1/4" x 1/4" x 1/4" Brass Push-Fit Tee .....	48.86	22.97
			Note: (Sharkbite)		
22 11 16 00-0872	EA		3/8" x 3/8" x 3/8" Brass Push-Fit Tee.....	60.60	24.50
			Note: (Sharkbite)		
22 11 16 00-0873	EA		1/2" x 1/2" x 1/2" Brass Push-Fit Tee.....	56.91	27.56
			Note: (Sharkbite)		
22 11 16 00-0874	EA		5/8" x 5/8" x 5/8" Brass Push-Fit Tee.....	70.88	29.40
			Note: (Sharkbite)		
22 11 16 00-0875	EA		3/4" x 3/4" x 3/4" Brass Push-Fit Tee.....	66.17	31.39
			Note: (Sharkbite)		
22 11 16 00-0876	EA		1" x 1" x 1" Brass Push-Fit Tee.....	88.98	37.51
			Note: (Sharkbite)		
22 11 16 00-0877	EA		1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee.....	62.52	26.03
			Note: (Sharkbite)		
22 11 16 00-0878	EA		1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee.....	62.97	26.54
			Note: (Sharkbite)		
22 11 16 00-0879	EA		3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee.....	63.84	30.12
			Note: (Sharkbite)		
22 11 16 00-0880	EA		1" x 1" x 3/4" Brass Push-Fit Reducing Tee.....	86.08	35.48
			Note: (Sharkbite)		

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0881	EA	1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	36.62	16.85
22 11 16 00-0882	EA	3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	36.38	17.35
22 11 16 00-0883	EA	1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	36.29	18.38
22 11 16 00-0884	EA	3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	41.52	20.93
22 11 16 00-0885	EA	1" x 1" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	57.14	25.01
22 11 16 00-0886	EA	1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	32.61	16.85
22 11 16 00-0887	EA	3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	36.38	17.35
22 11 16 00-0888	EA	1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	36.37	18.38
22 11 16 00-0889	EA	3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	41.16	20.93
22 11 16 00-0890	EA	5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	44.05	20.25
22 11 16 00-0891	EA	1" x 3/4" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	52.49	22.97
22 11 16 00-0892	EA	1" x 1" Brass Push-Fit Pipe To MNPT Connector..... Note: (Sharkbite)	57.88	25.01
22 11 16 00-0893	EA	1/2" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	50.15	18.38
22 11 16 00-0894	EA	3/4" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	58.49	20.93
22 11 16 00-0895	EA	1" Brass Push-Fit Ball Valve..... Note: (Sharkbite)	76.53	25.01
22 11 16 00-0896	EA	1/2" Brass Push-Fit Check Valve..... Note: (Sharkbite)	53.38	18.38
22 11 16 00-0897	EA	3/4" Brass Push-Fit Check Valve..... Note: (Sharkbite)	63.93	20.93
22 11 16 00-0898	EA	1" Brass Push-Fit Check Valve..... Note: (Sharkbite)	104.82	25.01
<b>22 11 16 00-0899</b>		<b>Copper Pipe With Fittings And Hangers Assemblies</b> <sup>(22 11 16)</sup> Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900	LF	1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.00 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.68 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.89 <i>For For Brazed Fittings, Add</i> 0.96 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.69 <i>For Work In Restricted Working Space, Add</i> 7.19	29.94	4.29
22 11 16 00-0901	LF	3/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.40 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.99 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.45 <i>For For Brazed Fittings, Add</i> 1.09 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.09 <i>For Work In Restricted Working Space, Add</i> 8.15	34.69	5.51
22 11 16 00-0902	LF	1" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.86 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.32 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.76 <i>For For Brazed Fittings, Add</i> 1.14 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.34 <i>For Work In Restricted Working Space, Add</i> 8.54	38.33	6.58
22 11 16 00-0903	LF	1-1/4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 3.58 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.83 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.12 <i>For For Brazed Fittings, Add</i> 1.18 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.64 <i>For Work In Restricted Working Space, Add</i> 8.87 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.37	43.28	7.66



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0904	LF		1-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 4.18 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.27 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.57 <i>For For Brazed Fittings, Add</i> 1.26 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.99 <i>For Work In Restricted Working Space, Add</i> 9.46 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.67	48.26	8.73
22 11 16 00-0905	LF		2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 5.77 <i>For Type M Tubing Instead Of Type L, Deduct</i> -4.42 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 6.68 <i>For For Brazed Fittings, Add</i> 1.45 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.87 <i>For Work In Restricted Working Space, Add</i> 10.88 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -2.48	61.04	10.88
22 11 16 00-0906	LF		2-1/2" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 7.88 <i>For Type M Tubing Instead Of Type L, Deduct</i> -5.91 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 7.65 <i>For For Brazed Fittings, Add</i> 1.56 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -5.70 <i>For Work In Restricted Working Space, Add</i> 11.67 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -3.63	75.19	13.11
22 11 16 00-0907	LF		3" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 10.32 <i>For Type M Tubing Instead Of Type L, Deduct</i> -7.63 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 8.80 <i>For For Brazed Fittings, Add</i> 1.69 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -6.69 <i>For Work In Restricted Working Space, Add</i> 12.64 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -4.95	91.67	15.22
22 11 16 00-0908	LF		4" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 17.66 <i>For Type M Tubing Instead Of Type L, Deduct</i> -12.83 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 12.61 <i>For For Brazed Fittings, Add</i> 2.18 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -9.89 <i>For Work In Restricted Working Space, Add</i> 16.34 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -8.88	143.25	20.16
22 11 16 00-0909	LF		5" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 35.12 <i>For Type M Tubing Instead Of Type L, Deduct</i> -25.04 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 19.75 <i>For For Brazed Fittings, Add</i> 2.80 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -16.26 <i>For Work In Restricted Working Space, Add</i> 20.98 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -18.53	255.25	25.10
22 11 16 00-0910	LF		6" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 46.25 <i>For Type M Tubing Instead Of Type L, Deduct</i> -32.93 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 25.56 <i>For For Brazed Fittings, Add</i> 3.55 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -21.12 <i>For Work In Restricted Working Space, Add</i> 26.64 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -24.48	333.65	30.31
22 11 16 00-0911	LF		8" Inside Diameter, Type L, Copper Pipe/Tubing With Fittings Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 111.74 <i>For Type M Tubing Instead Of Type L, Deduct</i> -78.26 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 47.33 <i>For For Brazed Fittings, Add</i> 4.41 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -41.81 <i>For Work In Restricted Working Space, Add</i> 33.11 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -61.54	725.78	36.23

- 22 11 16 00-0912 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16)  
Note: Socket weld.
- 22 11 16 00-0913 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 16 00-0914</b> <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0915      LF    1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	8.87 1.69	2.25
22 11 16 00-0916      LF    3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	10.36 1.78	2.37
22 11 16 00-0917      LF    1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	12.89 1.91	2.55
22 11 16 00-0918      LF    1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	15.97 2.09	2.78
22 11 16 00-0919      LF    1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	18.58 2.31	3.08
22 11 16 00-0920      LF    2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	23.68 2.58	3.44
22 11 16 00-0921      LF    2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	32.85 2.93	3.90
22 11 16 00-0922      LF    3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	42.37 3.46	4.63
22 11 16 00-0923      LF    4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	59.42 4.26	5.68
22 11 16 00-0924      LF    6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	105.53 5.42	7.22
22 11 16 00-0925      LF    8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	152.69 7.10	9.47
<b>22 11 16 00-0926</b> <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0927      EA    1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	31.86 8.04	10.72
22 11 16 00-0928      EA    3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	41.73 10.15	13.54
22 11 16 00-0929      EA    1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	54.91 12.73	16.91
22 11 16 00-0930      EA    1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	77.02 15.90	21.15
22 11 16 00-0931      EA    1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	85.76 17.60	23.40
22 11 16 00-0932      EA    2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	101.96 19.62	23.40
22 11 16 00-0933      EA    2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	169.64 22.33	29.74
22 11 16 00-0934      EA    3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	191.41 26.39	35.25
22 11 16 00-0935      EA    4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	280.78 32.48	43.28
22 11 16 00-0936      EA    6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	353.83 41.28	54.98
22 11 16 00-0937      EA    8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	709.68 54.14	72.18
<b>22 11 16 00-0938</b> <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0939      EA    1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	34.39 8.04	10.72
22 11 16 00-0940      EA    3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	44.76 10.15	13.54
22 11 16 00-0941      EA    1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	59.84 12.73	16.91
22 11 16 00-0942      EA    1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	83.49 15.90	21.15
22 11 16 00-0943      EA    1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	93.65 17.60	23.40
22 11 16 00-0944      EA    2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	104.64 19.62	26.23
22 11 16 00-0945      EA    2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	171.33 22.33	29.74
22 11 16 00-0946      EA    3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	191.20 26.39	35.25
22 11 16 00-0947      EA    4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	249.88 32.48	43.28
22 11 16 00-0948      EA    6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	411.78 41.28	54.98
22 11 16 00-0949      EA    8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	750.73 54.14	72.18
<b>22 11 16 00-0950</b> <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0951      EA    1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee ..... <i>For Work In Restricted Working Space, Add</i>	49.41 12.05	16.07
22 11 16 00-0952      EA    3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee ..... <i>For Work In Restricted Working Space, Add</i>	65.47 15.23	20.30
22 11 16 00-0953      EA    1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee ..... <i>For Work In Restricted Working Space, Add</i>	81.82 19.12	25.52



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0954	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	117.67 23.85	31.86
22 11 16 00-0955	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	131.70 26.39	35.25
22 11 16 00-0956	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	163.35 29.44	39.20
22 11 16 00-0957	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	218.81 33.50	44.69
22 11 16 00-0958	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	248.55 39.59	52.72
22 11 16 00-0959	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	300.14 48.72	64.99
22 11 16 00-0960	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	475.51 61.92	82.62
22 11 16 00-0961	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee <i>For Work In Restricted Working Space, Add</i>	1,041.14 81.20	108.27
<b>22 11 16 00-0962</b>			<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0963	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	61.52 16.07	21.43
22 11 16 00-0964	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	80.36 20.30	27.07
22 11 16 00-0965	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	100.46 25.46	33.98
22 11 16 00-0966	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	138.89 31.81	42.44
22 11 16 00-0967	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	154.97 35.19	46.95
22 11 16 00-0968	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	187.01 39.25	52.30
22 11 16 00-0969	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	241.17 44.66	59.49
22 11 16 00-0970	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	276.37 52.79	70.35
22 11 16 00-0971	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	335.18 64.97	86.56
22 11 16 00-0972	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	507.00 82.56	110.11
22 11 16 00-0973	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	1,024.53 108.27	144.36
<b>22 11 16 00-0974</b>			<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0975	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	27.85 7.45	9.86
22 11 16 00-0976	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	39.34 10.03	13.39
22 11 16 00-0977	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	70.74 13.11	17.48
22 11 16 00-0978	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	80.26 14.51	19.32
22 11 16 00-0979	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	95.90 16.20	21.57
22 11 16 00-0980	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	103.37 18.44	24.53
22 11 16 00-0981	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	126.26 21.78	29.04
22 11 16 00-0982	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	175.37 26.82	35.67
22 11 16 00-0983	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	296.64 34.05	45.39
22 11 16 00-0984	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	699.93 44.66	59.49
<b>22 11 16 00-0985</b>			<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0986	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	37.48 5.29	7.05
22 11 16 00-0987	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	46.23 7.45	9.86
22 11 16 00-0988	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	56.37 10.03	13.39
22 11 16 00-0989	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	69.26 13.11	17.48
22 11 16 00-0990	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	82.44 14.51	19.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0991 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	106.74 16.20	21.57
22 11 16 00-0992 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	174.21 18.44	24.53
22 11 16 00-0993 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	367.07 21.78	29.04
22 11 16 00-0994 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	553.49 26.82	35.67
<b>22 11 16 00-0995 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-0996 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	25.22 5.29	7.05
22 11 16 00-0997 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	35.10 7.45	9.86
22 11 16 00-0998 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	50.74 10.03	13.39
22 11 16 00-0999 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	69.26 13.11	17.48
22 11 16 00-1000 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	82.94 14.51	19.32
22 11 16 00-1001 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	100.76 16.20	21.57
22 11 16 00-1002 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	149.98 18.44	24.53
22 11 16 00-1003 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	179.63 21.78	29.04
22 11 16 00-1004 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	270.35 26.82	35.67
<b>22 11 16 00-1005 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-1006 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	28.12 5.29	7.05
22 11 16 00-1007 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	36.02 7.45	9.86
22 11 16 00-1008 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	50.98 10.03	13.39
22 11 16 00-1009 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	70.11 13.11	17.48
22 11 16 00-1010 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	79.06 14.51	19.32
22 11 16 00-1011 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	97.59 16.20	21.57
22 11 16 00-1012 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	151.82 18.44	24.53
22 11 16 00-1013 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	211.60 21.78	29.04
22 11 16 00-1014 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	324.71 26.82	35.67
<b>22 11 16 00-1015 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-1016 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	22.55 4.82	6.49
22 11 16 00-1017 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	31.71 6.77	9.02
22 11 16 00-1018 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	42.64 9.09	12.13
22 11 16 00-1019 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	58.14 11.93	15.93
22 11 16 00-1020 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	67.15 13.19	17.62
22 11 16 00-1021 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	75.96 14.72	19.60
22 11 16 00-1022 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	120.33 16.75	22.27
22 11 16 00-1023 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	131.12 19.79	26.37
22 11 16 00-1024 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	166.54 24.36	32.43
22 11 16 00-1025 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	271.56 30.96	41.31
22 11 16 00-1026 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	476.50 40.60	54.14
<b>22 11 16 00-1027 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions</b> <small>(22 11 16 00-0913)</small>		
22 11 16 00-1028 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	46.92 5.80	7.75



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-1029	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	56.01 8.12	10.86
	22 11 16 00-1030	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	66.23 10.91	14.52
	22 11 16 00-1031	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	117.86 14.30	19.04
	22 11 16 00-1032	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	124.19 15.82	21.15
	22 11 16 00-1033	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	177.51 17.68	23.54
	22 11 16 00-1034	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	312.84 20.09	26.79
	22 11 16 00-1035	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	450.81 23.77	31.72
	22 11 16 00-1036	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	729.10 29.23	38.91
	22 11 16 00-1037	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	976.91 37.13	49.48
	22 11 16 00-1038	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions <i>For Work In Restricted Working Space, Add</i>	1,204.53 48.72	64.99
	<b>22 11 16 00-1039</b>			<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps</b> <small>(22 11 16 00-0913)</small>		
	22 11 16 00-1040	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	20.27 3.02	6.63
	22 11 16 00-1041	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	27.19 3.81	8.32
	22 11 16 00-1042	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	41.55 4.78	10.43
	22 11 16 00-1043	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	47.98 5.96	7.89
	22 11 16 00-1044	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	50.65 6.60	8.74
	22 11 16 00-1045	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	70.67 7.36	9.86
	22 11 16 00-1046	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	111.00 8.37	11.14
	22 11 16 00-1047	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	117.98 9.90	13.25
	22 11 16 00-1048	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	183.97 12.18	16.21
	22 11 16 00-1049	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	408.31 15.48	20.58
	22 11 16 00-1050	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	525.72 20.30	27.07
	<b>22 11 16 00-1051</b>			<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges</b> <small>(22 11 16 00-0913)</small>		
	22 11 16 00-1052	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	37.48 3.85	5.08
	22 11 16 00-1053	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	44.46 5.42	7.19
	22 11 16 00-1054	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	53.67 7.27	9.72
	22 11 16 00-1055	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	62.14 9.56	12.69
	22 11 16 00-1056	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	66.23 10.58	14.10
	22 11 16 00-1057	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	80.40 11.76	15.65
	22 11 16 00-1058	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	108.99 13.41	17.91
	22 11 16 00-1059	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	122.85 15.82	21.15
	22 11 16 00-1060	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	153.85 19.50	25.94
	22 11 16 00-1061	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	222.32 24.79	32.99
	22 11 16 00-1062	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	423.44 32.48	43.28
	<b>22 11 16 00-1063</b>			<b>Cross-Linked Polyethylene Tubing, ASTM F877</b> <small>(22 11 16)</small> Note: Aboveground, domestic water usage.		
	<b>22 11 16 00-1064</b>			<b>Cross-Linked Polyethylene Tubing</b> <small>(22 11 16 00-1063)</small>		
	22 11 16 00-1065	LF		3/8" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	6.55 1.33	
	22 11 16 00-1066	LF		1/2" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	7.15 1.44	
	22 11 16 00-1067	LF		3/4" Cross-Linked Polyethylene (PEX , XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	9.49 1.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1068 LF 1" Cross-Linked Polyethylene (PEX, XPE or XLPE) Tubing <i>For Work In Restricted Working Space, Add</i>	12.86 1.64	
<b>22 11 16 00-1069 Cross-Linked Polyethylene Forged Brass PEX Fittings</b> (22 11 16 00-1063) Note: Aboveground, domestic water usage.		
<b>22 11 16 00-1070 Male Adapters</b> (22 11 16 00-1069)		
22 11 16 00-1071 EA 3/8" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	28.69 6.89	
22 11 16 00-1072 EA 1/2" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	30.89 7.35	
22 11 16 00-1073 EA 1/2" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	33.76 7.81	
22 11 16 00-1074 EA 3/4" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	35.29 8.27	
22 11 16 00-1075 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	33.76 7.81	
22 11 16 00-1076 EA 1" x 1", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	44.25 9.19	
<b>22 11 16 00-1077 Female Adapters</b> (22 11 16 00-1069)		
22 11 16 00-1078 EA 1/2" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.56 7.35	
22 11 16 00-1079 EA 1/2" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	35.60 7.81	
22 11 16 00-1080 EA 3/4" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	37.13 8.27	
22 11 16 00-1081 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	35.60 7.81	
22 11 16 00-1082 EA 1" x 1", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	45.08 9.19	
<b>22 11 16 00-1083 Tube Adapters</b> (22 11 16 00-1069)		
22 11 16 00-1084 EA 3/8" x 1/2" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	25.98 6.89	
22 11 16 00-1085 EA 1/2" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	27.51 7.35	
22 11 16 00-1086 EA 3/4" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	33.12 8.27	
22 11 16 00-1087 EA 1" Forged Brass Tube Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	42.54 9.19	
<b>22 11 16 00-1088 Plugs</b> (22 11 16 00-1069)		
22 11 16 00-1089 EA 3/8" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	13.06 3.22	
22 11 16 00-1090 EA 1/2" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	14.59 3.68	
22 11 16 00-1091 EA 3/4" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	16.79 4.13	
22 11 16 00-1092 EA 1" Forged Brass Plug For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	20.87 4.59	
<b>22 11 16 00-1093 Tees</b> (22 11 16 00-1069)		
22 11 16 00-1094 EA 3/8" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	37.05 9.65	
22 11 16 00-1095 EA 1/2" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	41.64 11.03	
22 11 16 00-1096 EA 3/4" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	49.57 12.40	
22 11 16 00-1097 EA 1" Forged Brass Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	63.57 13.78	
22 11 16 00-1098 EA 1/2" Forged Brass Reducing Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	40.11 10.57	
22 11 16 00-1099 EA 3/4" Forged Brass Reducing Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	46.51 11.48	
22 11 16 00-1100 EA 1" Forged Brass Reducing Tee For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	57.63 12.40	
<b>22 11 16 00-1101 Couplings</b> (22 11 16 00-1069)		
22 11 16 00-1102 EA 3/8" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	23.95 6.43	
22 11 16 00-1103 EA 1/2" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	27.17 7.35	
22 11 16 00-1104 EA 3/4" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	31.07 8.27	
22 11 16 00-1105 EA 1" Forged Brass Coupling For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	38.02 9.19	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1106	EA			3/4" x 1/2" Forged Brass Reducing Coupling For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	29.54 7.81	
22 11 16 00-1107	EA			1" x 3/4" Forged Brass Reducing Coupling For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	36.48 8.73	
<b>22 11 16 00-1108</b>				<b>Fitting Reducers</b> <small>(22 11 16 00-1069)</small>		
22 11 16 00-1109	EA			3/8" x 1/2" Forged Brass Fitting Reducer For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	26.48 6.89	
22 11 16 00-1110	EA			1/2" Forged Brass Fitting Reducer For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	28.01 7.35	
22 11 16 00-1111	EA			3/4" Forged Brass Fitting Reducer For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	34.12 8.27	
22 11 16 00-1112	EA			1" Forged Brass Fitting Reducer For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	48.26 9.19	
<b>22 11 16 00-1113</b>				<b>90 Degree Elbows</b> <small>(22 11 16 00-1069)</small>		
22 11 16 00-1114	EA			3/8" Forged Brass 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	25.45 6.43	
22 11 16 00-1115	EA			1/2" Forged Brass 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	28.51 7.35	
22 11 16 00-1116	EA			3/4" Forged Brass 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	34.12 8.27	
22 11 16 00-1117	EA			3/4" x 1/2" Forged Brass 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	32.59 7.81	
22 11 16 00-1118	EA			1/2" Drop 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	38.95 7.35	
22 11 16 00-1119	EA			3/4" Forged Brass Drop 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	43.52 8.27	
22 11 16 00-1120	EA			3/4" x 1/2" Forged Brass Drop 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	41.99 7.81	
<b>22 11 19</b>				<b>Domestic Water Piping Specialties</b> <small>(22 11)</small>		
22 11 19 00-0001				<b>Rubber Hose And Clamps</b> <small>(22 11 19)</small>		
22 11 19 00-0002				<b>General Purpose Hose</b> <small>(22 11 19 00-0001)</small> Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003	LF			3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	9.96	3.05
22 11 19 00-0004	LF			1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	11.71	3.05
22 11 19 00-0005	LF			5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	14.30	3.05
22 11 19 00-0006	LF			3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	14.43	3.05
22 11 19 00-0007	LF			1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	19.67	4.58
22 11 19 00-0008	LF			1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	32.52	4.58
22 11 19 00-0009	LF			1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	35.37	6.10
22 11 19 00-0010	LF			2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	67.74	6.10
22 11 19 00-0011				<b>Reinforced EPDM Water Hose Assembly</b> <small>(22 11 19 00-0001)</small> Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012	LF			1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	89.90	6.10
22 11 19 00-0013	LF			2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	106.07	6.10
22 11 19 00-0014	LF			3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	149.12	7.50
22 11 19 00-0015	LF			4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	209.46	10.14
22 11 19 00-0016				<b>Chemical Resistant Rubber Hoses</b> <small>(22 11 19 00-0001)</small>		
22 11 19 00-0017	EA			50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose.....	1,439.44	346.60
22 11 19 00-0018	EA			50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose.....	1,928.35	346.60
22 11 19 00-0019				<b>Water Pump Hose</b> <small>(22 11 19 00-0001)</small>		
22 11 19 00-0020	EA			2" Inside Diameter, 20' Rubber Discharge Hose.....	767.30	93.19
22 11 19 00-0021	EA			2" Inside Diameter, 20' Rubber Intake Hose.....	812.24	93.19
22 11 19 00-0022				<b>Barbed Hose x Threaded Male Pipe, Steel Coupling</b> <small>(22 11 19 00-0001)</small>		
22 11 19 00-0023	EA			3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	36.71	12.81
22 11 19 00-0024	EA			1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling.....	39.02	13.73
22 11 19 00-0025	EA			5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	41.75	14.64
22 11 19 00-0026	EA			3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling.....	47.39	16.47
22 11 19 00-0027	EA			1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling.....	56.91	20.14
22 11 19 00-0028	EA			1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling.....	67.61	24.10
22 11 19 00-0029	EA			1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling.....	87.45	31.72
22 11 19 00-0030	EA			2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling.....	109.94	39.65



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>22 11 19 00-0031</b>	<b>Worm-Drive Hose Clamp</b> (22 11 19 00-0001)		
22 11 19 00-0032	EA 3/8" To 1" Diameter Worm Drive Hose Clamp.....	16.68	4.58
22 11 19 00-0033	EA 1/2" To 1-1/6" Diameter Worm Drive Hose Clamp.....	17.62	4.58
22 11 19 00-0034	EA 5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....	18.61	4.58
22 11 19 00-0035	EA 3/4" To 2" Diameter Worm Drive Hose Clamp.....	19.80	4.58
22 11 19 00-0036	EA 1" To 2-1/2" Diameter Worm Drive Hose Clamp.....	21.13	4.58
22 11 19 00-0037	EA 1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....	22.94	6.10
22 11 19 00-0038	EA 1-1/2" To 3" Diameter Worm Drive Hose Clamp.....	24.72	6.10
<b>22 11 19 00-0039</b>	<b>Trap Primer And Accessories</b> (22 11 19)		
<b>22 11 19 00-0040</b>	<b>Trap Primer</b> (22 11 19 00-0039)		
22 11 19 00-0041	EA 1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....	332.59	22.97
22 11 19 00-0042	EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	204.70	15.31
22 11 19 00-0043	EA 1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	198.52	15.31
<b>22 11 19 00-0044</b>	<b>Trap Primer Distribution Unit</b> (22 11 19 00-0039)		
22 11 19 00-0045	EA Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U)..... Note: Can be used for two, three or four drains.	182.12	30.63
22 11 19 00-0046	EA Copper Four Opening Trap Primer Distribution Unit (PPP DU-4)..... Note: Can be used for two, three or four drains.	198.74	30.63
<b>22 11 19 00-0047</b>	<b>Trap Primer Manifold</b> (22 11 19 00-0039)		
22 11 19 00-0048	EA Two Outlet Trap Primer Manifold.....	268.42	41.19
22 11 19 00-0049	EA Four Outlet Trap Primer Manifold.....	401.66	46.86
22 11 19 00-0050	EA Six Outlet Trap Primer Manifold.....	531.01	49.62
22 11 19 00-0051	EA Eight Outlet Trap Primer Manifold.....	666.76	58.19
<b>22 11 19 00-0052</b>	<b>Sewage Air Release Valves</b> (22 11 19)		
<b>22 11 19 00-0053</b>	<b>Cast Iron, Sewage Air Release Valves</b> (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0054	EA 2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)..... <i>For Back Flush Attachment, Add</i>	981.15 650.00	55.91
22 11 19 00-0055	EA 3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)..... <i>For Back Flush Attachment, Add</i>	1,216.62 650.00	93.44
22 11 19 00-0056	EA 4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)..... <i>For Back Flush Attachment, Add</i>	1,542.48 650.00	117.95
<b>22 11 19 00-0057</b>	<b>Cast Iron, Sewage Air Vacuum Valves</b> (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0058	EA 2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401)..... <i>For Back Flush Attachment, Add</i>	1,001.85 650.00	55.91
22 11 19 00-0059	EA 2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402)..... <i>For Back Flush Attachment, Add</i>	1,938.45 650.00	55.91
22 11 19 00-0060	EA 3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403)..... <i>For Back Flush Attachment, Add</i>	2,339.50 650.00	93.44
22 11 19 00-0061	EA 4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404).....	3,454.49	117.95
<b>22 11 19 00-0062</b>	<b>Cast Iron, Sewage Combination Air Valves</b> (22 11 19 00-0052) Note: Stainless steel float.		
22 11 19 00-0063	EA 2" x 1" NPT, Sewage Combination Air Valve (Apco 443).....	2,109.22	55.91
22 11 19 00-0064	EA 2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....	2,898.34	55.91
22 11 19 00-0065	EA 3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....	3,405.47	93.44
22 11 19 00-0066	EA 4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....	4,166.00	117.95
<b>22 11 19 00-0067</b>	<b>Brass, Anti Siphon Vacuum Breakers</b> (22 11 19) Note: Watts 288A		
22 11 19 00-0068	EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	129.17	38.28
22 11 19 00-0069	EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	147.87	42.87
22 11 19 00-0070	EA 1" Brass, Anti Siphon Vacuum Breaker.....	288.45	49.00
22 11 19 00-0071	EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....	450.91	56.66
22 11 19 00-0072	EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....	538.03	62.79
22 11 19 00-0073	EA 2" Brass, Anti Siphon Vacuum Breaker.....	781.23	76.57
22 11 19 00-0074	EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....	2,009.84	95.71
<b>22 11 19 00-0075</b>	<b>Anti Siphon Pressure Vacuum Breakers</b> (22 11 19) Note: Watts 800M4QT		
22 11 19 00-0076	EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	351.97	38.28
22 11 19 00-0077	EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	311.04	42.87
22 11 19 00-0078	EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	440.00	49.00
22 11 19 00-0079	EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	784.32	56.66



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0080	EA		1-1/2" Anti Siphon Pressure Type Vacuum Breaker .....	954.10	62.79
22 11 19 00-0081	EA		2" Anti Siphon Pressure Type Vacuum Breaker .....	967.60	76.57
<b>22 11 19 00-0082 Bellows Type Water Hammer Arrestors (22 11 19)</b>					
22 11 19 00-0083	EA		Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5005).....	172.54	18.31
22 11 19 00-0084	EA		>11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5010).....	321.39	22.15
22 11 19 00-0085	EA		>32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5020).....	458.06	22.15
22 11 19 00-0086	EA		>60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5030).....	1,081.98	22.15
22 11 19 00-0087	EA		>113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5040).....	1,212.15	22.15
22 11 19 00-0088	EA		>154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith®) 5050).....	1,479.78	22.15
<b>22 11 19 00-0089 Piston Type Water Hammer Arrestors (22 11 19)</b>					
<b>22 11 19 00-0090 Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0089)</b>					
22 11 19 00-0091	EA		Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A) .....	190.77	10.21
22 11 19 00-0092	EA		>11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	364.24	11.77
22 11 19 00-0093	EA		>32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C) .....	540.01	12.76
22 11 19 00-0094	EA		>60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D) .....	1,324.33	16.47
22 11 19 00-0095	EA		>113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,613.08	20.42
22 11 19 00-0096	EA		>154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,835.27	22.15
<b>22 11 19 00-0097 Wall Hydrants (22 11 19)</b>					
Note: Female inlet connection, 3/4" hose thread outlet.					
<b>22 11 19 00-0098 Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker</b>					
<b>Wall Hydrants (22 11 19 00-0097)</b>					
Note: 3/4" HPT outlet, 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.					
22 11 19 00-0099	EA		6" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,069.34	38.28
				<i>For Cast Bronze Box, Add</i>	54.58
				<i>For 1" NPT Outlet, Add</i>	128.65
22 11 19 00-0100	EA		12" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,127.02	45.94
				<i>For Cast Bronze Box, Add</i>	54.58
				<i>For 1" NPT Outlet, Add</i>	128.65
22 11 19 00-0101	EA		18" Thick Wall, Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	1,158.39	55.28
				<i>For Cast Bronze Box, Add</i>	54.58
				<i>For 1" NPT Outlet, Add</i>	128.65
<b>22 11 19 00-0102 Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants</b>					
(22 11 19 00-0097)					
Note: 3/4" HPT outlet, 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.					
22 11 19 00-0103	EA		Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant .....	1,076.02	64.31
				<i>For Cast Bronze Box, Add</i>	54.58
				<i>For 1" NPT Outlet, Add</i>	128.65
<b>22 11 19 00-0104 Cast Bronze Non-Freezing Wall Hydrant (22 11 19 00-0097)</b>					
Note: 3/4" HPT outlet, 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.					
22 11 19 00-0105	EA		3" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	580.68	47.47
				<i>For 1" NPT Outlet, Add</i>	128.65
22 11 19 00-0106	EA		4" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	718.89	47.47
				<i>For 1" NPT Outlet, Add</i>	128.65
22 11 19 00-0107	EA		6" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	718.89	47.47
				<i>For 1" NPT Outlet, Add</i>	128.65
22 11 19 00-0108	EA		8" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	718.89	47.47
				<i>For 1" NPT Outlet, Add</i>	128.65
22 11 19 00-0109	EA		10" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	751.05	95.71
				<i>For 1" NPT Outlet, Add</i>	128.65
22 11 19 00-0110	EA		12" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	751.05	95.71
				<i>For 1" NPT Outlet, Add</i>	128.65
22 11 19 00-0111	EA		18" Thick Wall, Cast Bronze, Non-Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant.....	847.26	95.71
				<i>For 1" NPT Outlet, Add</i>	128.65
<b>22 11 19 00-0112 Stainless Steel Box Type Wall Hydrants (22 11 19 00-0097)</b>					
Note: With 3/4" NPT female and 3/4" NPT male inlet connection.					
22 11 19 00-0113	EA		Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	533.06	38.28
22 11 19 00-0114	EA		Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....	581.28	38.28
22 11 19 00-0115	EA		Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	587.85	38.28

**22 Plumbing****22 10 Plumbing Piping****22 11 Facility Water Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0116 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151) .....	660.18	38.28
22 11 19 00-0117 EA Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	928.97	53.60
Note: Includes hot and cold hose connections.		
22 11 19 00-0118 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146) .....	957.46	53.60
Note: Includes hot and cold hose connections.		
22 11 19 00-0119 EA Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	957.46	53.60
Note: Includes hot and cold hose connections.		
22 11 19 00-0120 EA Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156) .....	1,025.40	53.60
Note: Includes hot and cold hose connections.		
<b>22 11 19 00-0121 Washer Boxes And Dryer Outlets (22 11 19)</b>		
<b>22 11 19 00-0122 Dryer Vent Kit (22 11 19 00-0121)</b>		
Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0123 EA Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps .....	99.84	19.90
<b>22 11 19 00-0124 Washer Boxes And Dryer Vents (22 11 19 00-0121)</b>		
Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0125 EA 2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves .....	359.88	30.63
<b>22 11 19 00-0126 Ice Maker Outlet Box (22 11 19)</b>		
Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0127 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount .....	190.02	30.63
22 11 19 00-0128 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount .....	192.95	30.63
22 11 19 00-0129 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	269.31	30.63
<b>22 11 19 00-0130 Tempering Controllers For Potable Hot Water (22 11 19)</b>		
<b>22 11 19 00-0131 Point-Of-Use Thermostatic Mixing Valves (Bradley) (22 11 19 00-0130)</b>		
Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0132 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	588.09	37.07
22 11 19 00-0133 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	158.55	37.07
22 11 19 00-0134 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	338.23	37.07
22 11 19 00-0135 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	389.84	49.93
<b>22 11 19 00-0136 Thermostatic Mixing Valves (Bradley) (22 11 19 00-0130)</b>		
Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0137 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025) .....	1,587.09	53.46
22 11 19 00-0138 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045) .....	1,782.64	65.84
22 11 19 00-0139 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080) .....	2,142.55	76.59
22 11 19 00-0140 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130).....	2,773.43	80.49
22 11 19 00-0141 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200).....	3,722.70	104.43
<b>22 11 19 00-0142 High Low Temperature Thermostatic Mixing Valves (Bradley) (22 11 19 00-0130)</b>		
Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0143 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045) .....	4,034.61	82.33
22 11 19 00-0144 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080) .....	5,248.85	95.73
22 11 19 00-0145 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	6,119.14	100.62
22 11 19 00-0146 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200) .....	6,783.12	130.55
<b>22 11 19 00-0147 Thermostatic Mixing Valves (Leonard) (22 11 19 00-0130)</b>		
Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0148 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	1,155.59	53.46
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0149 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	1,361.16	65.83
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0150 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	1,671.95	76.59
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0151 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	2,041.37	80.52
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0152 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	3,029.45	104.43
Note: For hot water or two pipe low pressure steam.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0153			<b>Water Mixing/Self Operating Temperature Regulator</b> <small>(22 11 19 00-0130)</small> Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0154	EA		3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,329.09	76.57
22 11 19 00-0155	EA		1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,538.04	96.47
22 11 19 00-0156	EA		1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,904.69	116.38
22 11 19 00-0157	EA		1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	4,304.81	136.29
22 11 19 00-0158	EA		2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	5,104.96	179.17
22 11 19 00-0159	EA		2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	6,005.51	204.28
22 11 19 00-0160			<b>Thermostatic Mixing Valves (Holby)</b> <small>(22 11 19 00-0130)</small>		
22 11 19 00-0161	EA		2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	5,376.57	104.46
22 11 19 00-0162			<b>Backflow Preventer Valves</b> <small>(22 11 19)</small>		
22 11 19 00-0163			<b>Double Check Valve Backflow Preventer Assemblies</b> <small>(22 11 19 00-0162)</small>		
22 11 19 00-0164			<b>Threaded Double Check Valve Assemblies</b> <small>(22 11 19 00-0163)</small>		
22 11 19 00-0165			<b>Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0164)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0166	EA		1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series) .....	479.64	41.04
			<i>For Work In Restricted Working Space, Add</i>	30.78	
			<i>For Owner Furnished Material, Deduct</i>	-377.04	
22 11 19 00-0167	EA		3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	571.11	58.19
			<i>For Work In Restricted Working Space, Add</i>	43.64	
			<i>For Owner Furnished Material, Deduct</i>	-425.64	
22 11 19 00-0168	EA		1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	660.56	71.05
			<i>For Work In Restricted Working Space, Add</i>	53.29	
			<i>For Owner Furnished Material, Deduct</i>	-482.93	
22 11 19 00-0169	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	916.23	82.69
			<i>For Work In Restricted Working Space, Add</i>	62.02	
			<i>For Owner Furnished Material, Deduct</i>	-709.50	
22 11 19 00-0170	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,130.45	94.94
			<i>For Work In Restricted Working Space, Add</i>	70.75	
			<i>For Owner Furnished Material, Deduct</i>	-894.63	
22 11 19 00-0171	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT Series).....	1,309.27	122.50
			<i>For Work In Restricted Working Space, Add</i>	91.88	
			<i>For Owner Furnished Material, Deduct</i>	-1,003.00	
22 11 19 00-0172			<b>Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0164)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0173	EA		1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	587.53	41.04
			<i>For Work In Restricted Working Space, Add</i>	30.78	
			<i>For Owner Furnished Material, Deduct</i>	-484.93	
22 11 19 00-0174	EA		3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	729.13	58.19
			<i>For Work In Restricted Working Space, Add</i>	43.64	
			<i>For Owner Furnished Material, Deduct</i>	-583.66	
22 11 19 00-0175	EA		1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	854.28	71.05
			<i>For Work In Restricted Working Space, Add</i>	53.29	
			<i>For Owner Furnished Material, Deduct</i>	-676.65	
22 11 19 00-0176	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,192.26	82.69
			<i>For Work In Restricted Working Space, Add</i>	62.02	
			<i>For Owner Furnished Material, Deduct</i>	-985.53	
22 11 19 00-0177	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,455.55	94.94
			<i>For Work In Restricted Working Space, Add</i>	70.75	
			<i>For Owner Furnished Material, Deduct</i>	-1,219.73	
22 11 19 00-0178	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,758.11	122.50
			<i>For Work In Restricted Working Space, Add</i>	91.88	
			<i>For Owner Furnished Material, Deduct</i>	-1,451.84	
22 11 19 00-0179			<b>Flanged Double Check Valve Assemblies</b> <small>(22 11 19 00-0163)</small>		
22 11 19 00-0180			<b>Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0179)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0181	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS) .....	6,291.57	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.34	
			<i>For Owner Furnished Material, Deduct</i>	-5,840.43	
22 11 19 00-0182	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS) .....	6,913.88	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-6,413.40	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0183		<b>Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <sup>(22 11 19 00-0179)</sup> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0184	EA	2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	6,885.21	338.36
		<i>For Work In Restricted Working Space, Add</i>	135.34	
		<i>For Owner Furnished Material, Deduct</i>	-6,434.07	
22 11 19 00-0185	EA	3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY).....	7,903.28	380.65
		<i>For Work In Restricted Working Space, Add</i>	150.14	
		<i>For Owner Furnished Material, Deduct</i>	-7,402.80	
22 11 19 00-0186		<b>Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <sup>(22 11 19 00-0179)</sup> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0187	EA	2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	6,334.36	338.36
		<i>For Work In Restricted Working Space, Add</i>	135.33	
		<i>For Owner Furnished Material, Deduct</i>	-5,883.25	
22 11 19 00-0188	EA	3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	4,861.76	380.65
		<i>For Work In Restricted Working Space, Add</i>	150.15	
		<i>For Owner Furnished Material, Deduct</i>	-4,361.27	
22 11 19 00-0189	EA	4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	7,604.96	563.93
		<i>For Work In Restricted Working Space, Add</i>	225.45	
		<i>For Owner Furnished Material, Deduct</i>	-6,853.46	
22 11 19 00-0190	EA	6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....	11,527.11	774.47
		<i>For Work In Restricted Working Space, Add</i>	419.72	
		<i>For Owner Furnished Material, Deduct</i>	-10,128.06	
22 11 19 00-0191	EA	8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....	26,183.91	1,161.71
		<i>For Work In Restricted Working Space, Add</i>	629.67	
		<i>For Owner Furnished Material, Deduct</i>	-24,085.01	
22 11 19 00-0192	EA	10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS Series).....	33,603.55	1,374.06
		<i>For Work In Restricted Working Space, Add</i>	749.49	
		<i>For Owner Furnished Material, Deduct</i>	-31,105.26	
22 11 19 00-0193		<b>Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer</b> <sup>(22 11 19 00-0179)</sup> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0194	EA	4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	8,858.62	563.93
		<i>For Work In Restricted Working Space, Add</i>	225.43	
		<i>For Owner Furnished Material, Deduct</i>	-8,107.19	
22 11 19 00-0195	EA	6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	14,677.72	774.47
		<i>For Work In Restricted Working Space, Add</i>	419.72	
		<i>For Owner Furnished Material, Deduct</i>	-13,278.67	
22 11 19 00-0196	EA	10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA Series).....	38,978.49	1,374.06
		<i>For Work In Restricted Working Space, Add</i>	749.49	
		<i>For Owner Furnished Material, Deduct</i>	-36,480.20	
22 11 19 00-0197		<b>Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <sup>(22 11 19 00-0179)</sup> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0198	EA	2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	6,722.74	338.36
		<i>For Work In Restricted Working Space, Add</i>	135.33	
		<i>For Owner Furnished Material, Deduct</i>	-6,271.63	
22 11 19 00-0199	EA	3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	7,387.90	380.65
		<i>For Work In Restricted Working Space, Add</i>	150.14	
		<i>For Owner Furnished Material, Deduct</i>	-6,887.42	
22 11 19 00-0200	EA	4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	8,059.72	563.93
		<i>For Work In Restricted Working Space, Add</i>	225.43	
		<i>For Owner Furnished Material, Deduct</i>	-7,308.29	
22 11 19 00-0201	EA	6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	13,460.90	774.47
		<i>For Work In Restricted Working Space, Add</i>	419.72	
		<i>For Owner Furnished Material, Deduct</i>	-12,061.85	
22 11 19 00-0202	EA	8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	27,789.56	1,161.71
		<i>For Work In Restricted Working Space, Add</i>	629.57	
		<i>For Owner Furnished Material, Deduct</i>	-25,690.99	
22 11 19 00-0203	EA	10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY Series).....	35,675.73	1,374.06
		<i>For Work In Restricted Working Space, Add</i>	749.49	
		<i>For Owner Furnished Material, Deduct</i>	-33,177.44	
22 11 19 00-0204		<b>Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <sup>(22 11 19 00-0179)</sup> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0205	EA	2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,039.69	338.36
		<i>For Work In Restricted Working Space, Add</i>	135.33	
		<i>For Owner Furnished Material, Deduct</i>	-3,588.58	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0206	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	4,448.12	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-3,947.64	
22 11 19 00-0207	EA		4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	5,058.14	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
			<i>For Owner Furnished Material, Deduct</i>	-4,306.71	
22 11 19 00-0208	EA		6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	8,133.19	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
			<i>For Owner Furnished Material, Deduct</i>	-6,734.14	
22 11 19 00-0209	EA		8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	15,412.53	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
			<i>For Owner Furnished Material, Deduct</i>	-13,313.96	
22 11 19 00-0210	EA		10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY Series).....	16,745.17	1,374.06
			<i>For Work In Restricted Working Space, Add</i>	749.49	
			<i>For Owner Furnished Material, Deduct</i>	-14,246.88	
<b>22 11 19 00-0211 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0179)</small>					
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).					
22 11 19 00-0212	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	5,312.99	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.33	
			<i>For Owner Furnished Material, Deduct</i>	-4,861.88	
22 11 19 00-0213	EA		3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	5,721.42	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-5,220.94	
22 11 19 00-0214	EA		4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY Series).....	7,185.87	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
			<i>For Owner Furnished Material, Deduct</i>	-6,434.44	
22 11 19 00-0215	EA		6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	11,695.11	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
			<i>For Owner Furnished Material, Deduct</i>	-10,296.06	
22 11 19 00-0216	EA		8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	20,691.66	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
			<i>For Owner Furnished Material, Deduct</i>	-18,593.09	
22 11 19 00-0217	EA		10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY Series).....	24,622.95	1,374.06
			<i>For Work In Restricted Working Space, Add</i>	749.49	
			<i>For Owner Furnished Material, Deduct</i>	-22,124.66	
<b>22 11 19 00-0218 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves</b> <small>(22 11 19 00-0179)</small>					
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).					
22 11 19 00-0219	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	3,786.43	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.33	
			<i>For Owner Furnished Material, Deduct</i>	-3,335.32	
22 11 19 00-0220	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	4,206.38	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-3,705.90	
22 11 19 00-0221	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	4,827.77	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
			<i>For Owner Furnished Material, Deduct</i>	-4,076.34	
22 11 19 00-0222	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS Series).....	7,952.22	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
			<i>For Owner Furnished Material, Deduct</i>	-6,553.17	
22 11 19 00-0223	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	15,238.13	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
			<i>For Owner Furnished Material, Deduct</i>	-13,139.56	
22 11 19 00-0224	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	17,232.12	1,374.06
			<i>For Work In Restricted Working Space, Add</i>	749.49	
			<i>For Owner Furnished Material, Deduct</i>	-14,733.83	
<b>22 11 19 00-0225 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0179)</small>					
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).					
22 11 19 00-0226	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,952.96	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.33	
			<i>For Owner Furnished Material, Deduct</i>	-4,501.85	
22 11 19 00-0227	EA		3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	5,361.40	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-4,860.92	
22 11 19 00-0228	EA		4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	6,826.29	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
			<i>For Owner Furnished Material, Deduct</i>	-6,074.86	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0229	EA		6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	11,312.12	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
			<i>For Owner Furnished Material, Deduct</i>	-9,913.07	
22 11 19 00-0230	EA		8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	20,111.97	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
			<i>For Owner Furnished Material, Deduct</i>	-18,013.40	
22 11 19 00-0231	EA		10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	24,041.57	1,374.06
			<i>For Work In Restricted Working Space, Add</i>	749.49	
			<i>For Owner Furnished Material, Deduct</i>	-21,543.28	
<b>22 11 19 00-0232</b>			<b>Double Check Valve Assemblies With Butterfly Shut-Off Valves</b> (22 11 19 00-0179) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
22 11 19 00-0233	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	4,385.39	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.33	
			<i>For Owner Furnished Material, Deduct</i>	-3,934.28	
22 11 19 00-0234	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	4,793.82	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-4,293.34	
22 11 19 00-0235	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	5,403.84	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
			<i>For Owner Furnished Material, Deduct</i>	-4,652.41	
22 11 19 00-0236	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	8,487.60	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
			<i>For Owner Furnished Material, Deduct</i>	-7,088.55	
22 11 19 00-0237	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	15,766.94	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
			<i>For Owner Furnished Material, Deduct</i>	-13,668.37	
<b>22 11 19 00-0238</b>			<b>N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs</b> (22 11 19 00-0179) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0239	EA		2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series).....	5,658.69	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.33	
			<i>For Owner Furnished Material, Deduct</i>	-5,207.58	
22 11 19 00-0240	EA		3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	6,067.12	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-5,566.64	
22 11 19 00-0241	EA		4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	7,531.57	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
			<i>For Owner Furnished Material, Deduct</i>	-6,780.14	
22 11 19 00-0242	EA		6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	12,049.60	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
			<i>For Owner Furnished Material, Deduct</i>	-10,650.55	
22 11 19 00-0243	EA		8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	15,766.94	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
			<i>For Owner Furnished Material, Deduct</i>	-13,668.37	
<b>22 11 19 00-0244</b>			<b>Grooved Double Check Valve Assemblies</b> (22 11 19 00-0163)		
<b>22 11 19 00-0245</b>			<b>Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0244) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0246	EA		2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....	3,786.43	180.45
			<i>For Work In Restricted Working Space, Add</i>	135.33	
			<i>For Owner Furnished Material, Deduct</i>	-3,335.32	
22 11 19 00-0247	EA		3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series).....	4,206.38	200.19
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-3,705.90	
<b>22 11 19 00-0248</b>			<b>N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0244) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0249	EA		2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	4,952.96	180.45
			<i>For Work In Restricted Working Space, Add</i>	135.33	
			<i>For Owner Furnished Material, Deduct</i>	-4,501.85	
22 11 19 00-0250	EA		3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	5,361.40	200.19
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-4,860.92	
<b>22 11 19 00-0251</b>			<b>Reduced Pressure Zone Backflow Preventer Assemblies</b> (22 11 19 00-0162)		
<b>22 11 19 00-0252</b>			<b>Threaded Reduced Pressure Zone Assemblies</b> (22 11 19 00-0251)		
<b>22 11 19 00-0253</b>			<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0252) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0254	EA			1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series).....	527.35	35.52
				<i>For Work In Restricted Working Space, Add</i>	26.65	
				<i>For Owner Furnished Material, Deduct</i>	-438.53	
22 11 19 00-0255	EA			3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series).....	557.83	39.20
				<i>For Work In Restricted Working Space, Add</i>	29.40	
				<i>For Owner Furnished Material, Deduct</i>	-459.82	
22 11 19 00-0256	EA			1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series).....	647.30	41.04
				<i>For Work In Restricted Working Space, Add</i>	30.78	
				<i>For Owner Furnished Material, Deduct</i>	-544.70	
22 11 19 00-0257	EA			3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series).....	870.91	58.19
				<i>For Work In Restricted Working Space, Add</i>	43.64	
				<i>For Owner Furnished Material, Deduct</i>	-725.44	
22 11 19 00-0258	EA			1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,034.36	71.05
				<i>For Work In Restricted Working Space, Add</i>	53.29	
				<i>For Owner Furnished Material, Deduct</i>	-856.73	
22 11 19 00-0259	EA			1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,550.68	82.69
				<i>For Work In Restricted Working Space, Add</i>	62.02	
				<i>For Owner Furnished Material, Deduct</i>	-1,343.95	
22 11 19 00-0260	EA			1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,642.98	94.94
				<i>For Work In Restricted Working Space, Add</i>	70.75	
				<i>For Owner Furnished Material, Deduct</i>	-1,407.16	
22 11 19 00-0261	EA			2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series).....	1,976.09	122.50
				<i>For Work In Restricted Working Space, Add</i>	91.88	
				<i>For Owner Furnished Material, Deduct</i>	-1,669.82	
<b>22 11 19 00-0262</b>				<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0262)</small>		
				Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0263	EA			1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	580.44	35.52
				<i>For Work In Restricted Working Space, Add</i>	26.65	
				<i>For Owner Furnished Material, Deduct</i>	-491.62	
22 11 19 00-0264	EA			3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	613.78	39.20
				<i>For Work In Restricted Working Space, Add</i>	29.40	
				<i>For Owner Furnished Material, Deduct</i>	-515.77	
22 11 19 00-0265	EA			1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	723.97	58.19
				<i>For Work In Restricted Working Space, Add</i>	30.78	
				<i>For Owner Furnished Material, Deduct</i>	-621.37	
22 11 19 00-0266	EA			3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	991.41	58.19
				<i>For Work In Restricted Working Space, Add</i>	43.64	
				<i>For Owner Furnished Material, Deduct</i>	-845.94	
22 11 19 00-0267	EA			1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,185.02	71.05
				<i>For Work In Restricted Working Space, Add</i>	53.29	
				<i>For Owner Furnished Material, Deduct</i>	-1,007.39	
22 11 19 00-0268	EA			1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,756.15	82.69
				<i>For Work In Restricted Working Space, Add</i>	62.02	
				<i>For Owner Furnished Material, Deduct</i>	-1,549.42	
22 11 19 00-0269	EA			1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,932.95	94.94
				<i>For Work In Restricted Working Space, Add</i>	70.75	
				<i>For Owner Furnished Material, Deduct</i>	-1,697.13	
22 11 19 00-0270	EA			2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	2,331.84	122.50
				<i>For Work In Restricted Working Space, Add</i>	91.88	
				<i>For Owner Furnished Material, Deduct</i>	-2,025.57	
<b>22 11 19 00-0271</b>				<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0271)</small>		
				Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0272	EA			3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	870.91	58.19
				<i>For Work In Restricted Working Space, Add</i>	43.64	
				<i>For Owner Furnished Material, Deduct</i>	-725.44	
22 11 19 00-0273	EA			1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,034.36	71.05
				<i>For Work In Restricted Working Space, Add</i>	53.29	
				<i>For Owner Furnished Material, Deduct</i>	-856.73	
22 11 19 00-0274	EA			1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,550.68	82.69
				<i>For Work In Restricted Working Space, Add</i>	62.02	
				<i>For Owner Furnished Material, Deduct</i>	-1,343.95	
22 11 19 00-0275	EA			1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,642.98	94.94
				<i>For Work In Restricted Working Space, Add</i>	70.75	
				<i>For Owner Furnished Material, Deduct</i>	-1,407.16	
22 11 19 00-0276	EA			2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,976.09	122.50
				<i>For Work In Restricted Working Space, Add</i>	91.88	
				<i>For Owner Furnished Material, Deduct</i>	-1,669.82	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0277			<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0278	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	991.41	58.19
			<i>For Work In Restricted Working Space, Add</i>	43.64	
			<i>For Owner Furnished Material, Deduct</i>	-845.94	
22 11 19 00-0279	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,185.02	71.05
			<i>For Work In Restricted Working Space, Add</i>	53.29	
			<i>For Owner Furnished Material, Deduct</i>	-1,007.39	
22 11 19 00-0280	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,756.15	82.69
			<i>For Work In Restricted Working Space, Add</i>	62.02	
			<i>For Owner Furnished Material, Deduct</i>	-1,549.42	
22 11 19 00-0281	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,932.95	94.94
			<i>For Work In Restricted Working Space, Add</i>	70.75	
			<i>For Owner Furnished Material, Deduct</i>	-1,697.13	
22 11 19 00-0282	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	2,331.84	122.50
			<i>For Work In Restricted Working Space, Add</i>	91.88	
			<i>For Owner Furnished Material, Deduct</i>	-2,025.57	
22 11 19 00-0283			<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0284	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,765.87	58.19
			<i>For Work In Restricted Working Space, Add</i>	43.64	
			<i>For Owner Furnished Material, Deduct</i>	-1,620.40	
22 11 19 00-0285	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	2,091.29	71.05
			<i>For Work In Restricted Working Space, Add</i>	53.29	
			<i>For Owner Furnished Material, Deduct</i>	-1,913.66	
22 11 19 00-0286	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	3,204.75	82.69
			<i>For Work In Restricted Working Space, Add</i>	62.02	
			<i>For Owner Furnished Material, Deduct</i>	-2,998.02	
22 11 19 00-0287	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	3,467.08	94.94
			<i>For Work In Restricted Working Space, Add</i>	70.75	
			<i>For Owner Furnished Material, Deduct</i>	-3,231.26	
22 11 19 00-0288	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	4,028.56	122.50
			<i>For Work In Restricted Working Space, Add</i>	91.88	
			<i>For Owner Furnished Material, Deduct</i>	-3,722.29	
22 11 19 00-0289			<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0252)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0290	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	2,368.20	58.19
			<i>For Work In Restricted Working Space, Add</i>	43.64	
			<i>For Owner Furnished Material, Deduct</i>	-2,222.73	
22 11 19 00-0291	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	2,816.10	71.05
			<i>For Work In Restricted Working Space, Add</i>	53.29	
			<i>For Owner Furnished Material, Deduct</i>	-2,638.47	
22 11 19 00-0292	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	4,280.65	82.69
			<i>For Work In Restricted Working Space, Add</i>	62.02	
			<i>For Owner Furnished Material, Deduct</i>	-4,073.92	
22 11 19 00-0293	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	4,678.01	94.94
			<i>For Work In Restricted Working Space, Add</i>	70.75	
			<i>For Owner Furnished Material, Deduct</i>	-4,442.19	
22 11 19 00-0294	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	5,561.94	122.50
			<i>For Work In Restricted Working Space, Add</i>	91.88	
			<i>For Owner Furnished Material, Deduct</i>	-5,255.67	
22 11 19 00-0295			<b>Flanged Reduced Pressure Zone Assemblies</b> <small>(22 11 19 00-0251)</small>		
22 11 19 00-0296			<b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0295)</small>		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0297	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	5,793.91	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.34	
			<i>For Owner Furnished Material, Deduct</i>	-5,342.77	
22 11 19 00-0298	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	6,526.97	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-6,026.49	



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Water Distribution</b>	<b>22 11</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 19 00-0299</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer</b> <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0300    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	6,889.64	338.36
For Work In Restricted Working Space, Add	135.34	
For Owner Furnished Material, Deduct	-6,438.50	
22 11 19 00-0301    EA    3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	7,799.91	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-7,299.43	
<b>22 11 19 00-0302</b> <b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0303    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	6,213.30	338.36
For Work In Restricted Working Space, Add	135.34	
For Owner Furnished Material, Deduct	-5,762.16	
22 11 19 00-0304    EA    3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	7,223.99	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-6,723.51	
<b>22 11 19 00-0305</b> <b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer</b> <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0306    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	6,889.64	338.36
For Work In Restricted Working Space, Add	135.34	
For Owner Furnished Material, Deduct	-6,438.50	
22 11 19 00-0307    EA    3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	7,799.91	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-7,299.43	
<b>22 11 19 00-0308</b> <b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0309    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	7,638.34	338.36
For Work In Restricted Working Space, Add	135.34	
For Owner Furnished Material, Deduct	-7,187.20	
22 11 19 00-0310    EA    3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	8,835.09	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-8,334.61	
<b>22 11 19 00-0311</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0312    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	9,885.87	338.36
For Work In Restricted Working Space, Add	135.33	
For Owner Furnished Material, Deduct	-9,434.76	
22 11 19 00-0313    EA    3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	11,228.86	380.65
For Work In Restricted Working Space, Add	150.15	
For Owner Furnished Material, Deduct	-10,728.37	
22 11 19 00-0314    EA    4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	14,163.07	563.93
For Work In Restricted Working Space, Add	225.45	
For Owner Furnished Material, Deduct	-13,411.57	
22 11 19 00-0315    EA    6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	21,445.37	774.47
For Work In Restricted Working Space, Add	587.64	
For Owner Furnished Material, Deduct	-19,486.58	
22 11 19 00-0316    EA    8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	35,526.81	1,161.71
For Work In Restricted Working Space, Add	881.45	
For Owner Furnished Material, Deduct	-32,588.63	
22 11 19 00-0317    EA    10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	45,661.19	1,374.06
For Work In Restricted Working Space, Add	749.49	
For Owner Furnished Material, Deduct	-43,162.90	
<b>22 11 19 00-0318</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer</b> <small>(22 11 19 00-0295)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0319 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	10,646.38	338.36
For Work In Restricted Working Space, Add	135.33	
For Owner Furnished Material, Deduct	-10,195.27	
22 11 19 00-0320 EA 3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	12,029.23	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-11,528.75	
22 11 19 00-0321 EA 4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	15,390.16	563.93
For Work In Restricted Working Space, Add	225.43	
For Owner Furnished Material, Deduct	-14,638.73	
22 11 19 00-0322 EA 6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	23,195.44	774.47
For Work In Restricted Working Space, Add	419.72	
For Owner Furnished Material, Deduct	-21,796.39	
22 11 19 00-0323 EA 8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	37,538.89	1,161.71
For Work In Restricted Working Space, Add	629.57	
For Owner Furnished Material, Deduct	-35,440.32	
22 11 19 00-0324 EA 10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	50,896.87	1,374.06
For Work In Restricted Working Space, Add	749.49	
For Owner Furnished Material, Deduct	-48,398.58	
<b>22 11 19 00-0325 Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs</b> (22 11 19 00-0295)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0326 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	10,512.00	338.36
For Work In Restricted Working Space, Add	135.33	
For Owner Furnished Material, Deduct	-10,060.89	
22 11 19 00-0327 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	11,946.55	380.65
For Work In Restricted Working Space, Add	150.15	
For Owner Furnished Material, Deduct	-11,446.06	
22 11 19 00-0328 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	15,055.01	563.93
For Work In Restricted Working Space, Add	225.45	
For Owner Furnished Material, Deduct	-14,303.51	
22 11 19 00-0329 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series)....	22,185.85	774.47
For Work In Restricted Working Space, Add	419.72	
For Owner Furnished Material, Deduct	-20,786.80	
22 11 19 00-0330 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	36,860.78	1,161.71
For Work In Restricted Working Space, Add	629.57	
For Owner Furnished Material, Deduct	-34,762.21	
22 11 19 00-0331 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	48,537.10	1,374.06
For Work In Restricted Working Space, Add	749.49	
For Owner Furnished Material, Deduct	-46,038.81	
<b>22 11 19 00-0332 Double Check Detector Assemblies</b> (22 11 19 00-0162)		
<b>22 11 19 00-0333 Flanged Double Check Detector Assemblies With Meter</b> (22 11 19 00-0332)		
<b>22 11 19 00-0334 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter</b> (22 11 19 00-0333)		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0335 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	7,918.12	380.65
For Work In Restricted Working Space, Add	150.14	
For Owner Furnished Material, Deduct	-7,417.64	
22 11 19 00-0336 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	8,341.18	563.93
For Work In Restricted Working Space, Add	225.43	
For Owner Furnished Material, Deduct	-7,589.75	
22 11 19 00-0337 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	11,254.61	774.47
For Work In Restricted Working Space, Add	419.72	
For Owner Furnished Material, Deduct	-9,855.56	
22 11 19 00-0338 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	19,913.06	1,161.71
For Work In Restricted Working Space, Add	629.57	
For Owner Furnished Material, Deduct	-17,814.49	
22 11 19 00-0339 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	26,844.68	1,374.06
For Work In Restricted Working Space, Add	749.49	
For Owner Furnished Material, Deduct	-24,346.39	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0340			<b>Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter</b> <small>(22 11 19 00-0333)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0341	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,946.38	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.34	
			<i>For Owner Furnished Material, Deduct</i>	-5,495.24	
22 11 19 00-0342	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,354.42	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-5,853.94	
22 11 19 00-0343	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	6,972.93	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
			<i>For Owner Furnished Material, Deduct</i>	-6,221.50	
22 11 19 00-0344	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	9,477.59	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
			<i>For Owner Furnished Material, Deduct</i>	-8,078.54	
22 11 19 00-0345	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	16,701.26	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
			<i>For Owner Furnished Material, Deduct</i>	-14,602.69	
22 11 19 00-0346	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	19,698.31	1,374.06
			<i>For Work In Restricted Working Space, Add</i>	749.49	
			<i>For Owner Furnished Material, Deduct</i>	-17,200.02	
22 11 19 00-0347			<b>Double Check Detector Assembly With Butterfly Valves And Meter</b> <small>(22 11 19 00-0333)</small>		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0348	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,292.16	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.34	
			<i>For Owner Furnished Material, Deduct</i>	-5,841.02	
22 11 19 00-0349	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,700.19	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-6,199.71	
22 11 19 00-0350	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	7,318.63	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
			<i>For Owner Furnished Material, Deduct</i>	-6,567.20	
22 11 19 00-0351	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	9,832.01	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
			<i>For Owner Furnished Material, Deduct</i>	-8,432.96	
22 11 19 00-0352	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	16,276.04	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
			<i>For Owner Furnished Material, Deduct</i>	-14,177.47	
22 11 19 00-0353			<b>Flanged Double Check Detector Assemblies Without Meter</b> <small>(22 11 19 00-0332)</small>		
22 11 19 00-0354			<b>Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter</b> <small>(22 11 19 00-0353)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0355	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	5,837.21	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.34	
22 11 19 00-0356	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,245.29	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
22 11 19 00-0357	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	6,863.80	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
22 11 19 00-0358	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	9,368.46	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
22 11 19 00-0359	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	16,592.21	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
22 11 19 00-0360	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	19,589.11	1,374.06
			<i>For Work In Restricted Working Space, Add</i>	749.49	
22 11 19 00-0361			<b>Double Check Detector Assembly With Butterfly Valves Less Meter</b> <small>(22 11 19 00-0353)</small>		
			Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0362	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,182.95	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.34	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0363	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	6,590.99	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
22 11 19 00-0364	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	7,209.50	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
22 11 19 00-0365	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	9,722.80	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
22 11 19 00-0366	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)...	16,946.62	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
<b>22 11 19 00-0367</b>			<b>Flanged Double Check Detector Assemblies (22 11 19 00-0332)</b>		
<b>22 11 19 00-0368</b>			<b>Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs</b>		
			<i>(22 11 19 00-0367)</i> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series).		
22 11 19 00-0369	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	5,639.67	338.36
			<i>For Work In Restricted Working Space, Add</i>	135.34	
			<i>For Owner Furnished Material, Deduct</i>	-5,188.53	
22 11 19 00-0370	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	6,816.63	380.65
			<i>For Work In Restricted Working Space, Add</i>	150.14	
			<i>For Owner Furnished Material, Deduct</i>	-6,316.15	
22 11 19 00-0371	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	7,603.85	563.93
			<i>For Work In Restricted Working Space, Add</i>	225.43	
			<i>For Owner Furnished Material, Deduct</i>	-6,852.42	
22 11 19 00-0372	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	9,600.46	774.47
			<i>For Work In Restricted Working Space, Add</i>	419.72	
			<i>For Owner Furnished Material, Deduct</i>	-8,201.41	
22 11 19 00-0373	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	16,923.44	1,161.71
			<i>For Work In Restricted Working Space, Add</i>	629.57	
			<i>For Owner Furnished Material, Deduct</i>	-14,824.87	
22 11 19 00-0374	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	22,758.74	1,374.06
			<i>For Work In Restricted Working Space, Add</i>	749.49	
			<i>For Owner Furnished Material, Deduct</i>	-20,260.45	
22 11 19 00-0375	EA		12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	30,317.79	1,648.87
			<i>For Work In Restricted Working Space, Add</i>	899.39	
			<i>For Owner Furnished Material, Deduct</i>	-27,319.84	
<b>22 11 19 00-0376</b>			<b>Backflow Preventer Accessories (22 11 19 00-0162)</b>		
<b>22 11 19 00-0377</b>			<b>Air Gap (22 11 19 00-0376)</b>		
22 11 19 00-0378	EA		Up To 1" Diameter Air Gap For Backflow Preventer.....	138.61	19.14
22 11 19 00-0379	EA		1-1/4" To 2" Diameter Air Gap For Backflow Preventer.....	170.33	22.97
22 11 19 00-0380	EA		2-1/2" To 3" Diameter Air Gap For Backflow Preventer.....	314.47	30.63
22 11 19 00-0381	EA		4" To 6" Diameter Air Gap For Backflow Preventer.....	619.02	53.60
22 11 19 00-0382	EA		8" To 10" Diameter Air Gap For Backflow Preventer.....	664.95	76.57
<b>22 11 19 00-0383</b>			<b>Brass Test Cocks (22 11 19 00-0376)</b>		
22 11 19 00-0384	EA		1/8" Or 1/4" Brass Test Cock.....	56.37	7.66
<b>22 11 19 00-0385</b>			<b>Backflow Valve Enclosures (22 11 19 00-0162)</b>		
<b>22 11 19 00-0386</b>			<b>Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0385)</b>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0387	EA		19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,463.85	137.81
			<i>For Heated Enclosure, Add</i>	167.90	
22 11 19 00-0388	EA		27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,777.04	137.81
			<i>For Heated Enclosure, Add</i>	214.88	
22 11 19 00-0389	EA		27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,218.13	126.88
			<i>For Heated Enclosure, Add</i>	285.14	
22 11 19 00-0390	EA		33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,332.03	169.18
			<i>For Heated Enclosure, Add</i>	286.36	
22 11 19 00-0391	EA		39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,438.24	169.18
			<i>For Heated Enclosure, Add</i>	302.30	
22 11 19 00-0392	EA		47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,852.20	169.18
			<i>For Heated Enclosure, Add</i>	364.39	
22 11 19 00-0393	EA		39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	2,863.09	169.18
			<i>For Heated Enclosure, Add</i>	366.02	
22 11 19 00-0394	EA		47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	3,568.44	169.18
			<i>For Heated Enclosure, Add</i>	471.83	
22 11 19 00-0395	EA		70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	8,120.99	253.77
			<i>For Heated Enclosure, Add</i>	1,122.99	
22 11 19 00-0396	EA		83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	11,680.45	253.77
			<i>For Heated Enclosure, Add</i>	1,656.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0397	EA		70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure ..... <i>For Heated Enclosure, Add</i>	11,108.54 1,571.12	253.77
22 11 19 00-0398	EA		83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure ..... <i>For Heated Enclosure, Add</i>	13,368.46 1,894.25	296.06
<b>22 11 19 00-0399 One-Piece Drop Over, Insulated Fiberglass Valve Enclosures</b> <small>(22 11 19 00-0385)</small>					
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.					
22 11 19 00-0400	EA		20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure..... <i>For Heated Enclosure, Add</i>	742.10 136.17	36.75
22 11 19 00-0401	EA		27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure..... <i>For Heated Enclosure, Add</i>	1,030.78 193.90	36.75
22 11 19 00-0402	EA		38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure..... <i>For Heated Enclosure, Add</i>	1,292.80 247.28	33.84
22 11 19 00-0403	EA		47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure..... <i>For Heated Enclosure, Add</i>	1,951.86 379.09	33.84
22 11 19 00-0404	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure..... <i>For Heated Enclosure, Add</i>	5,051.40 989.13	63.44
22 11 19 00-0405	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure..... <i>For Heated Enclosure, Add</i>	6,895.13 1,357.88	63.44
22 11 19 00-0406	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure..... <i>For Heated Enclosure, Add</i>	4,593.87 897.63	63.44
22 11 19 00-0407	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure..... <i>For Heated Enclosure, Add</i>	5,198.46 1,018.54	63.44
22 11 19 00-0408	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure..... <i>For Heated Enclosure, Add</i>	8,131.54 1,605.16	63.44
<b>22 11 19 00-0409 Sectional, Insulated Aluminum Valve Enclosures</b> <small>(22 11 19 00-0385)</small>					
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.					
22 11 19 00-0410	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,471.27 1,475.53 820.86 1,468.91	253.77
22 11 19 00-0411	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,525.22 1,633.62 820.86 1,468.91	253.77
22 11 19 00-0412	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,248.99 1,142.19 820.86 1,468.91	253.77
22 11 19 00-0413	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,027.88 1,259.02 820.86 1,468.91	253.77
22 11 19 00-0414	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,538.39 1,453.88 820.86 1,468.91	338.36
22 11 19 00-0415	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,785.70 1,640.97 820.86 1,468.91	338.36
22 11 19 00-0416	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,785.70 1,640.97 820.86 1,468.91	338.36
22 11 19 00-0417	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	12,994.88 1,822.35 820.86 1,468.91	338.36
22 11 19 00-0418	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,789.94 1,357.47 820.86 1,468.91	296.06
22 11 19 00-0419	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,456.17 1,591.54 820.86 1,468.91	338.36
22 11 19 00-0420	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,343.47 1,874.64 820.86 1,468.91	338.36
22 11 19 00-0421	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	14,638.20 2,060.92 820.86 1,468.91	359.50
22 11 19 00-0422	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	14,951.39 2,107.90 820.86 1,468.91	359.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0423 EA 125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure .....	16,562.03	380.65
For Heated Enclosure, Add	2,341.56	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0424 EA 105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure .....	17,185.69	380.65
For Heated Enclosure, Add	2,435.11	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0425 EA 72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure .....	12,526.46	338.36
For Heated Enclosure, Add	1,752.09	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0426 EA 72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure .....	13,335.30	338.36
For Heated Enclosure, Add	1,873.41	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0427 EA 72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure .....	15,071.22	359.50
For Heated Enclosure, Add	2,125.87	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0428 EA 72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure .....	18,223.30	380.65
For Heated Enclosure, Add	2,590.75	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0429 EA 118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure .....	15,938.38	380.65
For Heated Enclosure, Add	2,248.01	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0430 EA 142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure .....	19,109.52	401.80
For Heated Enclosure, Add	2,715.75	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0431 EA 118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure .....	18,485.87	401.80
For Heated Enclosure, Add	2,622.21	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0432 EA 142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure .....	21,379.21	422.94
For Heated Enclosure, Add	3,048.28	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0433 EA 142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure .....	19,786.03	422.94
For Heated Enclosure, Add	2,809.30	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0434 EA 172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure .....	23,049.78	444.09
For Heated Enclosure, Add	3,290.93	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0435 EA 142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure .....	23,102.64	465.24
For Heated Enclosure, Add	3,290.93	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0436 EA 172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure .....	27,335.90	486.39
For Heated Enclosure, Add	3,917.99	
For One 24" Fluorescent Light Fixture, Add	820.86	
For Two 24" Fluorescent Light Fixture, Add	1,468.91	
22 11 19 00-0437 Faucets (Hose Bibbs) <small>(22 11 19)</small>		
22 11 19 00-0438 Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends <small>(22 11 19 00-0437)</small>		
22 11 19 00-0439 EA 1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends .....	78.40	15.31
22 11 19 00-0440 EA 3/4", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends .....	91.26	16.85
22 11 19 00-0441 EA 3/4" Screwed Ends Vacuum Breaker (Mueller 108-904NL) .....	22.74	11.49
22 11 19 00-0442 Chrome Plated Brass Hose Valves, Screwed Ends <small>(22 11 19 00-0437)</small>		
22 11 19 00-0443 EA 3/4" Hose Valve With Screwed Ends (Chicago Faucets #387-CP) .....	238.37	46.86
22 11 19 00-0444 Antisiphon Freezeless Wall Faucet (Woodford 19CP) <small>(22 11 19 00-0437)</small>		
22 11 19 00-0445 EA 4" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	163.37	38.28
22 11 19 00-0446 EA 6" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	177.86	42.42
22 11 19 00-0447 EA 8" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	188.52	44.87
22 11 19 00-0448 EA 10" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	199.17	48.08
22 11 19 00-0449 EA 12" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	209.99	50.99
22 11 19 00-0450 Escutcheons <small>(22 11 19)</small>		
22 11 19 00-0451 Brass Escutcheons <small>(22 11 19 00-0450)</small>		
22 11 19 00-0452 Shallow Brass Escutcheons <small>(22 11 19 00-0451)</small>		
22 11 19 00-0453 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon .....	15.45	3.83





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0454	EA		1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....	16.50	3.83
<b>22 11 19 00-0455</b>			<b>Deep Bell Brass Escutcheons (22 11 19 00-0451)</b>		
22 11 19 00-0456	EA		3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	17.87	4.29
22 11 19 00-0457	EA		1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	17.91	4.29
<b>22 11 19 00-0458</b>			<b>Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0451)</b>		
22 11 19 00-0459	EA		3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	25.22	3.83
22 11 19 00-0460	EA		1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	25.46	3.83
22 11 19 00-0461	EA		5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	25.83	3.83
22 11 19 00-0462	EA		3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	27.16	3.83
22 11 19 00-0463	EA		7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	27.64	4.59
22 11 19 00-0464	EA		1" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	28.94	4.59
22 11 19 00-0465	EA		1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	30.07	5.06
22 11 19 00-0466	EA		1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	31.50	5.36
22 11 19 00-0467	EA		2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	44.63	6.12
<b>22 11 19 00-0468</b>			<b>Plastic Escutcheons (22 11 19 00-0450)</b>		
<b>22 11 19 00-0469</b>			<b>Split-Ring White Plastic Escutcheons (22 11 19 00-0468)</b>		
22 11 19 00-0470	EA		3/8" IPS, Split-Ring White Plastic Escutcheon.....	9.03	3.81
22 11 19 00-0471	EA		1/2" IPS, Split-Ring White Plastic Escutcheon.....	9.03	3.81
22 11 19 00-0472	EA		3/4" IPS, Split-Ring White Plastic Escutcheon.....	10.45	4.27
22 11 19 00-0473	EA		1" IPS, Split-Ring White Plastic Escutcheon.....	11.34	4.58
22 11 19 00-0474	EA		1-1/4" IPS, Split-Ring White Plastic Escutcheon.....	12.22	5.04
22 11 19 00-0475	EA		1-1/2" IPS, Split-Ring White Plastic Escutcheon.....	13.07	5.34
22 11 19 00-0476	EA		2" IPS, Split-Ring White Plastic Escutcheon.....	14.76	6.10
22 11 19 00-0477	EA		2-1/2" IPS, Split-Ring White Plastic Escutcheon.....	18.46	6.56
22 11 19 00-0478	EA		3" IPS, Split-Ring White Plastic Escutcheon.....	22.17	6.86
22 11 19 00-0479	EA		4" IPS, Split-Ring White Plastic Escutcheon.....	26.64	7.63
<b>22 11 19 00-0480</b>			<b>Chrome Plate Plastic Escutcheons (22 11 19 00-0468)</b>		
22 11 19 00-0481	EA		1/2" IPS, Chrome Plate Plastic Escutcheon.....	11.45	3.81
22 11 19 00-0482	EA		3/4" IPS, Chrome Plate Plastic Escutcheon.....	12.52	4.27
22 11 19 00-0483	EA		1" IPS, Chrome Plate Plastic Escutcheon.....	14.00	4.58
22 11 19 00-0484	EA		1-1/4" IPS, Chrome Plate Plastic Escutcheon.....	15.48	5.04
22 11 19 00-0485	EA		1-1/2" IPS, Chrome Plate Plastic Escutcheon.....	16.35	5.34
22 11 19 00-0486	EA		2" IPS, Chrome Plate Plastic Escutcheon.....	20.35	6.10
22 11 19 00-0487	EA		2-1/2" IPS, Chrome Plate Plastic Escutcheon.....	28.53	6.56
22 11 19 00-0488	EA		3" IPS, Chrome Plate Plastic Escutcheon.....	29.61	6.86
22 11 19 00-0489	EA		4" IPS, Chrome Plate Plastic Escutcheon.....	31.75	7.63
<b>22 11 19 00-0490</b>			<b>Stainless Steel Escutcheons (22 11 19 00-0450)</b>		
<b>22 11 19 00-0491</b>			<b>Shallow Stainless Steel Escutcheons (22 11 19 00-0490)</b>		
22 11 19 00-0492	EA		3/8" IPS, Shallow Stainless Steel Escutcheon.....	20.58	3.83
22 11 19 00-0493	EA		1/2" IPS, Shallow Stainless Steel Escutcheon.....	20.58	3.83
22 11 19 00-0494	EA		3/4" IPS, Shallow Stainless Steel Escutcheon.....	28.50	4.29
<b>22 11 19 00-0495</b>			<b>Chrome Plated Steel Escutcheons (22 11 19 00-0450)</b>		
<b>22 11 19 00-0496</b>			<b>Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0495)</b>		
22 11 19 00-0497	EA		1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.39	3.81
22 11 19 00-0498	EA		3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.15	4.27
22 11 19 00-0499	EA		1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.05	4.58
22 11 19 00-0500	EA		1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	10.81	5.04
22 11 19 00-0501	EA		1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	11.58	5.34
22 11 19 00-0502	EA		2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	13.32	6.10
22 11 19 00-0503	EA		2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	19.17	6.56
22 11 19 00-0504	EA		3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	20.36	6.86
22 11 19 00-0505	EA		3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	24.66	7.32
22 11 19 00-0506	EA		4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	22.24	7.63
22 11 19 00-0507	EA		5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	28.20	8.39
22 11 19 00-0508	EA		6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	32.68	9.15
<b>22 11 19 00-0509</b>			<b>Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0495)</b>		
22 11 19 00-0510	EA		3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.65	3.81
22 11 19 00-0511	EA		1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	12.65	3.81
22 11 19 00-0512	EA		3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	13.57	4.27
22 11 19 00-0513	EA		1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	14.43	4.58
22 11 19 00-0514	EA		1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	16.20	5.04
22 11 19 00-0515	EA		1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	17.18	5.34
22 11 19 00-0516	EA		2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	20.28	6.10
22 11 19 00-0517	EA		2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	23.15	6.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0518 EA 3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....	27.94	6.86
22 11 19 00-0519 EA 3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....	33.93	7.32
22 11 19 00-0520 EA 4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....	34.53	7.63
22 11 19 00-0521 EA 5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....	55.60	8.39
22 11 19 00-0522 EA 6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon .....	58.18	9.15
<b>22 11 19 00-0523 Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0495)</b>		
22 11 19 00-0524 EA 3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.16	4.29
22 11 19 00-0525 EA 1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.04	4.29
22 11 19 00-0526 EA 3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.78	4.29
22 11 19 00-0527 EA 1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	10.77	4.59
22 11 19 00-0528 EA 1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon .....	11.69	5.06
22 11 19 00-0529 EA 1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon .....	12.83	5.36
<b>22 11 19 00-0530 Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0495)</b>		
22 11 19 00-0531 EA 3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.28	3.83
22 11 19 00-0532 EA 1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.28	3.83
22 11 19 00-0533 EA 3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.40	3.83
22 11 19 00-0534 EA 1" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.03	4.59
22 11 19 00-0535 EA 1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon .....	10.85	5.06
22 11 19 00-0536 EA 1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon .....	11.97	5.36
22 11 19 00-0537 EA 2" IPS, Shallow Chrome Plated Steel Escutcheon.....	13.60	6.12
<b>22 11 19 00-0538 Keyed, Recessed Valve Boxes (22 11 19)</b>		
22 11 19 00-0539 EA 8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box .....	375.42	45.75
22 11 19 00-0540 EA 8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box .....	415.99	45.75
22 11 19 00-0541 EA 8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box .....	476.83	45.75
22 11 19 00-0542 EA 12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box .....	466.77	61.00
22 11 19 00-0543 EA 12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box .....	527.61	61.00
22 11 19 00-0544 EA 12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box .....	545.86	61.00
22 11 19 00-0545 EA 8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	440.32	45.75
22 11 19 00-0546 EA 8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	529.56	45.75
22 11 19 00-0547 EA 8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	608.66	45.75
22 11 19 00-0548 EA 12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	580.34	61.00
22 11 19 00-0549 EA 12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	659.44	61.00
22 11 19 00-0550 EA 12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	689.86	61.00
<b>22 11 23 Domestic Water Pumps (22 11)</b>		
<b>22 11 23 13 Domestic Water Packaged Booster Pumps (22 11 23)</b>		
Note: Includes motor starter and controls.		
<b>22 11 23 13-0001 Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)</b>		
22 11 23 13-0002 EA 1 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	14,510.01	451.14
22 11 23 13-0003 EA 1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	15,102.02	606.22
22 11 23 13-0004 EA 2 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	15,796.18	761.30
22 11 23 13-0005 EA 3 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	16,439.27	916.37
22 11 23 13-0006 EA 5 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	18,206.04	1,071.45
22 11 23 13-0007 EA 7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	20,228.20	1,226.53
22 11 23 13-0008 EA 10 HP Simplex Domestic Water Packaged Booster Pump And Tank .....	21,637.44	1,381.61
<b>22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)</b>		
22 11 23 13-0010 EA 100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	39,144.42	1,825.61
22 11 23 13-0011 EA 200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	47,114.20	1,939.71
22 11 23 13-0012 EA 300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator .....	55,116.55	2,053.81
<b>22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)</b>		
22 11 23 13-0014 EA 200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	51,468.51	1,939.71
22 11 23 13-0015 EA 300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	64,033.95	2,053.81
22 11 23 13-0016 EA 500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	79,554.69	2,282.01
22 11 23 13-0017 EA 750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	100,736.68	2,510.20
22 11 23 13-0018 EA 1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	121,918.67	2,738.40
22 11 23 13-0019 EA 1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	142,018.31	3,080.71
22 11 23 13-0020 EA 2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	162,117.96	3,423.01
22 11 23 13-0021 EA 3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	182,217.61	3,765.31
22 11 23 13-0022 EA 5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	202,602.51	4,221.71
<b>22 11 23 13-0023 Variable Speed Duplex Domestic Water Pressure Booster Skid (22 11 23 13)</b>		
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0024 EA 40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1).....	42,383.75	1,909.62
22 11 23 13-0025 EA 40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2).....	44,314.44	1,909.62
22 11 23 13-0026 EA 80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3).....	47,073.17	1,909.62
22 11 23 13-0027 EA 80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4).....	51,049.85	1,909.62
22 11 23 13-0028 EA 160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5).....	48,216.36	2,028.97
22 11 23 13-0029 EA 160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6).....	51,687.83	2,028.97
22 11 23 13-0030 EA 160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7).....	56,402.41	2,028.97
22 11 23 13-0031 EA 160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8).....	60,234.45	2,028.97
22 11 23 13-0032 EA 240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9).....	52,675.90	2,148.32
22 11 23 13-0033 EA 280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10).....	56,103.35	2,148.32
22 11 23 13-0034 EA 240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11).....	63,767.42	2,148.32
22 11 23 13-0035 EA 240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12).....	76,630.32	2,148.32
22 11 23 13-0036 EA 360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13).....	55,621.20	2,148.32
22 11 23 13-0037 EA 360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14).....	62,612.36	2,148.32
22 11 23 13-0038 EA 360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15).....	78,001.30	2,148.32
22 11 23 13-0039 EA 360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16).....	77,556.88	2,148.32
22 11 23 13-0040 EA 440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17).....	92,479.75	2,387.02
22 11 23 13-0041 EA 440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18).....	63,655.63	2,387.02
22 11 23 13-0042 EA 440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19).....	77,669.40	2,387.02
22 11 23 13-0043 EA 440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20).....	77,227.08	2,387.02
22 11 23 13-0044 EA 440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21).....	93,167.34	2,387.02
22 11 23 13-0045 EA 440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22).....	112,665.03	2,387.02
22 11 23 13-0046 EA 60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1).....	53,519.29	1,909.62
<b>22 11 23 13-0047 Variable Speed Triplex Domestic Water Pressure Booster Skid</b> <sup>(22 11 23 13)</sup>		
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0048 EA 60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....	53,519.29	1,909.62
22 11 23 13-0049 EA 120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....	59,845.93	1,909.62
22 11 23 13-0050 EA 60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....	65,304.69	1,909.62
22 11 23 13-0051 EA 180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....	60,144.31	2,028.97
22 11 23 13-0052 EA 180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....	65,565.34	2,028.97
22 11 23 13-0053 EA 240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....	61,410.47	2,028.97
22 11 23 13-0054 EA 240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....	66,070.55	2,028.97
22 11 23 13-0055 EA 240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....	72,478.94	2,028.97
22 11 23 13-0056 EA 240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....	77,790.96	2,028.97
22 11 23 13-0057 EA 300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....	62,014.91	2,148.32
22 11 23 13-0058 EA 300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....	66,674.99	2,148.32
22 11 23 13-0059 EA 300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....	73,081.28	2,148.32
22 11 23 13-0060 EA 300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....	78,393.30	2,148.32
22 11 23 13-0061 EA 360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....	67,255.66	2,148.32
22 11 23 13-0062 EA 360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....	71,731.26	2,148.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0063 EA 360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17) .....	82,789.25	2,148.32
22 11 23 13-0064 EA 360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18) .....	100,834.20	2,148.32
22 11 23 13-0065 EA 480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19) .....	68,766.41	2,387.02
22 11 23 13-0066 EA 480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20) .....	73,244.11	2,387.02
22 11 23 13-0067 EA 480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21) .....	84,302.09	2,387.02
22 11 23 13-0068 EA 480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22) .....	102,344.94	2,387.02
22 11 23 13-0069 EA 540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23) .....	72,518.79	2,387.02
22 11 23 13-0070 EA 540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24) .....	82,568.45	2,387.02
22 11 23 13-0071 EA 540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25) .....	104,399.32	2,387.02
22 11 23 13-0072 EA 540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26) .....	106,514.48	2,387.02
22 11 23 13-0073 EA 540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27) .....	131,856.65	2,387.02
22 11 23 13-0074 EA 660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28) .....	82,212.78	2,864.42
22 11 23 13-0075 EA 660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29) .....	98,775.65	2,864.42
22 11 23 13-0076 EA 660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30) .....	105,056.16	2,864.42
22 11 23 13-0077 EA 660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31) .....	126,599.84	2,864.42
22 11 23 13-0078 EA 660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32) .....	156,746.73	2,864.42

## 22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)

### 22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0002 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B) .....	1,361.55	253.77
22 11 23 23-0003 EA 1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B) .....	1,397.39	253.77
22 11 23 23-0004 EA 1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B) .....	1,462.09	258.70
22 11 23 23-0005 EA 1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B) .....	1,610.37	269.27
22 11 23 23-0006 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B) .....	2,874.75	279.25
22 11 23 23-0007 EA 1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB) .....	3,065.50	279.25
22 11 23 23-0008 EA 1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB) .....	4,575.35	307.46
22 11 23 23-0009 EA 1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB) .....	4,772.15	337.79
22 11 23 23-0010 EA 1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB) .....	5,775.54	371.63
22 11 23 23-0011 EA 1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S) .....	5,904.69	409.02
22 11 23 23-0012 EA 3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S) .....	6,457.47	449.21
22 11 23 23-0013 EA 1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S) .....	9,245.45	494.34
22 11 23 23-0014 EA 1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S) .....	10,647.46	518.32

### 22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0016 EA 1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30) .....	1,417.51	253.77
22 11 23 23-0017 EA 1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36) .....	2,361.54	253.77
22 11 23 23-0018 EA 1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45) .....	2,371.74	258.70
22 11 23 23-0019 EA 1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45) .....	2,412.84	264.34
22 11 23 23-0020 EA 1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50) .....	2,422.70	269.27
22 11 23 23-0021 EA 1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75) .....	2,468.58	279.25
22 11 23 23-0022 EA 1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2) .....	3,015.57	307.46
22 11 23 23-0023 EA 1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30) .....	3,889.38	371.63
22 11 23 23-0024 EA 1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S) .....	4,098.55	409.02
22 11 23 23-0025 EA 3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S) .....	4,782.35	449.21
22 11 23 23-0026 EA 1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S) .....	6,448.18	494.34
22 11 23 23-0027 EA 1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S) .....	7,535.69	518.32
22 11 23 23-0028 EA 2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF) .....	6,769.37	544.41
22 11 23 23-0029 EA 3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF) .....	7,277.66	598.42
22 11 23 23-0030 EA 5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF) .....	7,995.47	634.68
22 11 23 23-0031 EA 7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF) .....	10,122.81	705.20
22 11 23 23-0032 EA 10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF) .....	10,742.55	846.37
22 11 23 23-0033 EA 15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF) .....	13,698.30	987.69

## 22 12 Facility Potable-Water Storage Tanks (22 10)

### 22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)

#### 22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)

22 12 19 00-0002 EA 5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank .....	42,256.78	9,744.59
22 12 19 00-0003 EA 10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank .....	48,056.08	9,744.59
22 12 19 00-0004 EA 20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank .....	86,780.13	15,037.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 19 00-0005 EA 35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	112,006.52	19,489.17
<b>22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)</b>		
22 12 19 00-0007 EA 5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	50,848.33	9,744.59
22 12 19 00-0008 EA 10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	71,038.48	9,744.59
22 12 19 00-0009 EA 20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	105,842.70	15,037.97
22 12 19 00-0010 EA 35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	152,520.05	19,489.17
<b>22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)</b>		
<b>22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)</b>		
<b>22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)</b>		
22 12 23 13-0002 EA 80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A).....	2,883.54	563.93
22 12 23 13-0003 EA 119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	3,574.75	704.91
22 12 23 13-0004 EA 140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	6,393.87	775.39
22 12 23 13-0005 EA 200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	7,066.40	845.88
22 12 23 13-0006 EA 250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	13,740.26	916.37
22 12 23 13-0007 EA 350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	11,916.10	986.86
22 12 23 13-0008 EA 400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	20,207.98	1,057.35
22 12 23 13-0009 EA 500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	18,681.90	1,127.84
22 12 23 13-0010 EA 750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	20,284.64	1,198.33
22 12 23 13-0011 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	24,107.19	1,268.82
<b>22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)</b>		
22 12 23 13-0013 EA 80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	2,499.20	563.93
22 12 23 13-0014 EA 120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	4,657.26	704.91
22 12 23 13-0015 EA 140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A).....	5,782.62	775.39
22 12 23 13-0016 EA 200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	7,104.23	845.88
22 12 23 13-0017 EA 200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A).....	6,083.00	845.88
22 12 23 13-0018 EA 250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A).....	9,255.58	916.37
22 12 23 13-0019 EA 325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A).....	10,015.14	986.86
22 12 23 13-0020 EA 350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	9,551.21	986.86
22 12 23 13-0021 EA 350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A).....	8,748.68	986.86
22 12 23 13-0022 EA 400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A).....	11,857.20	1,057.35
22 12 23 13-0023 EA 500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A).....	12,855.41	1,127.84
22 12 23 13-0024 EA 750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A).....	14,881.95	1,198.33
22 12 23 13-0025 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A).....	27,543.51	1,268.82
<b>22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)</b>		
<b>22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)</b>		
Note: Excludes excavation and backfill.		
22 12 23 26-0002 EA 100 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	824.23	317.21
For Saddle Assembly, Add	911.06	
22 12 23 26-0003 EA 150 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	965.13	370.07
For Saddle Assembly, Add	911.06	
22 12 23 26-0004 EA 200 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,141.23	422.94
For Saddle Assembly, Add	1,030.75	
22 12 23 26-0005 EA 300 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,380.69	475.81
For Saddle Assembly, Add	1,497.77	
22 12 23 26-0006 EA 335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	1,645.97	528.68
For Two Tie Down Bands, Add	530.68	
22 12 23 26-0007 EA 535 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	2,049.24	655.28
For Two Tie Down Bands, Add	563.54	
22 12 23 26-0008 EA 1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	3,033.32	764.50
For Three Tie Down Bands, Add	950.91	
22 12 23 26-0009 EA 1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	4,344.91	873.70
For Three Tie Down Bands, Add	957.95	
22 12 23 26-0010 EA 1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	5,408.14	982.92
For Four Tie Down Bands, Add	1,296.05	
22 12 23 26-0011 EA 2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	6,326.94	1,092.13
For Four Tie Down Bands, Add	1,774.81	
22 12 23 26-0012 EA 2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	8,994.34	1,201.34
For Four Tie Down Bands, Add	2,300.51	
22 12 23 26-0013 EA 3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	10,407.26	1,310.56
For Four Tie Down Bands, Add	2,478.87	
22 12 23 26-0014 EA 4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	14,930.31	1,747.41
For Four Tie Down Bands, Add	2,788.65	
22 12 23 26-0015 EA 5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank.....	19,243.60	1,747.41
For Five Tie Down Bands, Add	4,342.41	

**22 Plumbing****22 10 Plumbing Piping****22 12 Facility Potable-Water Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks</b> <small>(22 12 23 26)</small>		
22 12 23 26-0017 EA 100 Gallon Vertical Non-Pressurized Polyethylene Tank.....	918.28	422.94
22 12 23 26-0018 EA 160 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,091.99	449.37
22 12 23 26-0019 EA 210 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,195.29	475.81
22 12 23 26-0020 EA 300 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,437.10	528.68
22 12 23 26-0021 EA 405 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,646.13	634.42
22 12 23 26-0022 EA 500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	1,942.00	740.15
22 12 23 26-0023 EA 800 Gallon Vertical Non-Pressurized Polyethylene Tank.....	2,582.42	873.70
22 12 23 26-0024 EA 1,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	3,338.33	1,092.13
22 12 23 26-0025 EA 2,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	4,465.04	1,310.56
22 12 23 26-0026 EA 3,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	5,812.36	1,528.99
22 12 23 26-0027 EA 4,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	8,480.95	1,747.41
22 12 23 26-0028 EA 5,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	11,426.48	1,965.84
22 12 23 26-0029 EA 6,250 Gallon Vertical Non-Pressurized Polyethylene Tank.....	12,947.47	2,184.27
22 12 23 26-0030 EA 7,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	14,266.63	2,402.70
22 12 23 26-0031 EA 8,000 Gallon Vertical Non-Pressurized Polyethylene Tank.....	16,416.56	2,621.12
22 12 23 26-0032 EA 9,150 Gallon Vertical Non-Pressurized Polyethylene Tank.....	18,526.60	2,839.55
22 12 23 26-0033 EA 10,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	22,866.16	3,057.97
22 12 23 26-0034 EA 12,500 Gallon Vertical Non-Pressurized Polyethylene Tank.....	27,485.22	3,494.83
<b>22 13 Facility Sanitary Sewerage</b> <small>(22 10)</small>		
<b>22 13 13 Facility Sanitary Sewers</b> <small>(22 13)</small>		
<b>22 13 13 00-0001 Fixture Rough-In</b> <small>(22 13 13)</small>		
Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible. See CSI section 22 07 19 00-0000 for insulation, 22 11 16 00-0368 for copper pipe and fittings, 22 13 16 00-0000 for PVC or cast iron sanitary waste and vent pipe and fittings, 23 05 29 00-0000 for hangers.		
<b>22 13 13 00-0002 Single Fixture Rough-In, Cast Iron Waste And Vent Pipe</b> <small>(22 13 13 00-0001)</small>		
Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0003 EA Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,333.64	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0004 EA Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,756.33	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0005 EA Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,216.08	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0006 EA Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	785.62	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0007 EA Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	925.75	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0008 EA Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,183.58	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0009 EA Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,257.13	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0010 EA Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	760.12	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0011 EA Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,216.08	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0012 EA Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,253.00	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0013 EA Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,182.49	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0014 EA Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,333.64	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0015 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	2,088.53	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0016 EA Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,292.40	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
<b>22 13 13 00-0017 Double Fixture Rough-In, Cast Iron Waste And Vent Pipe</b> <small>(22 13 13 00-0001)</small>		
Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0018 EA Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,730.02	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0019 EA Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	2,353.92	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0020 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,494.34	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0021 EA Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	936.84	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0022 EA Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,262.40	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0023 EA Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,336.61	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0024 EA Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	886.78	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0025 EA Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,508.42	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0026 EA Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,318.88	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0027 EA Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,283.67	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.		
22 13 13 00-0028 EA Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,730.02	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.		
<b>22 13 13 00-0029 Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)</b>		
Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0030 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	864.35	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0031 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	1,176.97	
Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0032 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	747.86	
Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.		
22 13 13 00-0033 EA Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	469.13	
Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0034 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	631.23	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0035 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	668.28	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0036 EA Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	478.62	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0037 EA Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And Copper Domestic Supply, Not Including Fixture Or Faucet.....	753.52	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0038 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	659.44	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0039 EA Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	642.50	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.		
22 13 13 00-0040 EA Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....	854.46	
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
<b>22 13 13 00-0041 Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe (22 13 13 00-0001)</b>		
Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0042 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Water Closet.....	804.75	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0043 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Water Closet.....	899.61	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0044 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Tank Type, Floor Mounted, Water Closet.....	762.04	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0045 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Urinal.....	461.53	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0046 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Lavatory.....	541.15	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0047 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Countertop, Kitchen Sink.....	732.19	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0048 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Bathtub.....	744.36	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0049 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Free Standing, Water Cooler.....	455.94	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0050 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Service Sink.....	762.04	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		

**22 Plumbing****22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0051 EA Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....808.00 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	808.00	
22 13 13 00-0052 EA Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....746.19 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	746.19	
22 13 13 00-0053 EA Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....804.58 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	804.58	
22 13 13 00-0054 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....1,243.89 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	1,243.89	
22 13 13 00-0055 EA Bathroom/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....775.19 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	775.19	
<b>22 13 13 00-0056 Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe</b> <sup>(22 13 00-0001)</sup> Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0057 EA Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....984.17 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	984.17	
22 13 13 00-0058 EA Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....1,178.41 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	1,178.41	
22 13 13 00-0059 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....855.29 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	855.29	
22 13 13 00-0060 EA Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....516.26 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	516.26	
22 13 13 00-0061 EA Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....753.35 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.	753.35	
22 13 13 00-0062 EA Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....787.57 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.	787.57	
22 13 13 00-0063 EA Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....501.77 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	501.77	
22 13 13 00-0064 EA Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....867.83 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	867.83	
22 13 13 00-0065 EA Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....831.84 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	831.84	
22 13 13 00-0066 EA Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....800.39 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	800.39	
22 13 13 00-0067 EA Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....984.17 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	984.17	
<b>22 13 13 00-0068 Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe</b> <sup>(22 13 00-0001)</sup> Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0069 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....491.50 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	491.50	
22 13 13 00-0070 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....588.52 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	588.52	
22 13 13 00-0071 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....428.06 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	428.06	
22 13 13 00-0072 EA Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....258.19 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	258.19	
22 13 13 00-0073 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....376.64 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	376.64	
22 13 13 00-0074 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....393.43 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	393.43	
22 13 13 00-0075 EA Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....250.87 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	250.87	
22 13 13 00-0076 EA Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....433.79 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	433.79	
22 13 13 00-0077 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....415.97 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	415.97	
22 13 13 00-0078 EA Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....400.79 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	400.79	





<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0079 EA Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....482.16 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	482.16	
<b>22 13 16 Sanitary Waste and Vent Piping (22 13)</b>		
22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)		
22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001) Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0003 LF 2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....43.64 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	43.64	8.88
For Work In Restricted Working Space, Add	6.52	
22 13 16 00-0004 LF 3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....62.28 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	62.28	13.39
For Work In Restricted Working Space, Add	8.84	
22 13 16 00-0005 LF 4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....80.79 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	80.79	17.05
For Work In Restricted Working Space, Add	11.37	
22 13 16 00-0006 LF 5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....91.85 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	91.85	19.49
For Work In Restricted Working Space, Add	10.97	
22 13 16 00-0007 LF 6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....107.93 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	107.93	21.23
For Work In Restricted Working Space, Add	12.18	
22 13 16 00-0008 LF 8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....172.01 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	172.01	30.51
For Work In Restricted Working Space, Add	17.28	
22 13 16 00-0009 LF 10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....252.89 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	252.89	30.51
For Work In Restricted Working Space, Add	19.56	
22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001) Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
22 13 16 00-0011 LF 1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly .....38.63 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	38.63	8.46
For Work In Restricted Working Space, Add	7.43	
22 13 16 00-0012 LF 2" Aboveground No Hub Cast Iron Soil Pipe Assembly .....41.00 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	41.00	9.02
For Work In Restricted Working Space, Add	7.98	
22 13 16 00-0013 LF 3" Aboveground No Hub Cast Iron Soil Pipe Assembly .....52.27 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	52.27	13.11
For Work In Restricted Working Space, Add	9.79	
22 13 16 00-0014 LF 4" Aboveground No Hub Cast Iron Soil Pipe Assembly .....62.44 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	62.44	17.05
For Work In Restricted Working Space, Add	11.70	
22 13 16 00-0015 LF 5" Aboveground No Hub Cast Iron Soil Pipe Assembly .....77.08 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	77.08	19.11
For Work In Restricted Working Space, Add	12.97	
22 13 16 00-0016 LF 6" Aboveground No Hub Cast Iron Soil Pipe Assembly .....87.35 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	87.35	20.86
For Work In Restricted Working Space, Add	14.14	
22 13 16 00-0017 LF 8" Aboveground No Hub Cast Iron Soil Pipe Assembly .....135.53 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	135.53	30.26
For Work In Restricted Working Space, Add	19.70	
22 13 16 00-0018 LF 10" Aboveground No Hub Cast Iron Soil Pipe Assembly .....189.22 Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available.	189.22	34.38
For Work In Restricted Working Space, Add	22.89	
22 13 16 00-0019 Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020 Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0021 LF 2" Bell And Spigot Cast Iron Pipe .....	30.97	8.88
For Extra Heavy Pipe, Add	7.37	
For Above Ground Cast Iron Pipe Installation, Add	0.67	
For Work In Restricted Working Space, Add	4.03	
22 13 16 00-0022 LF 3" Bell And Spigot Cast Iron Pipe .....	45.29	13.39
For Extra Heavy Pipe, Add	10.56	
For Above Ground Cast Iron Pipe Installation, Add	1.01	
For Work In Restricted Working Space, Add	6.04	
22 13 16 00-0023 LF 4" Bell And Spigot Cast Iron Pipe .....	58.33	17.05
For Extra Heavy Pipe, Add	13.73	
For Above Ground Cast Iron Pipe Installation, Add	1.28	
For Work In Restricted Working Space, Add	7.69	
22 13 16 00-0024 LF 5" Bell And Spigot Cast Iron Pipe .....	75.30	19.49
For Extra Heavy Pipe, Add	19.38	
For Above Ground Cast Iron Pipe Installation, Add	1.46	
For Work In Restricted Working Space, Add	8.75	
22 13 16 00-0025 LF 6" Bell And Spigot Cast Iron Pipe .....	87.99	21.23
For Extra Heavy Pipe, Add	23.60	
For Above Ground Cast Iron Pipe Installation, Add	1.59	
For Work In Restricted Working Space, Add	9.54	
22 13 16 00-0026 LF 8" Bell And Spigot Cast Iron Pipe .....	133.19	30.51
For Extra Heavy Pipe, Add	36.71	
For Above Ground Cast Iron Pipe Installation, Add	2.29	
For Work In Restricted Working Space, Add	13.73	
22 13 16 00-0027 LF 10" Bell And Spigot Cast Iron Pipe .....	197.03	34.38
For Extra Heavy Pipe, Add	61.12	
For Above Ground Cast Iron Pipe Installation, Add	2.58	
For Work In Restricted Working Space, Add	15.45	
22 13 16 00-0028 LF 12" Bell And Spigot Cast Iron Pipe .....	280.09	45.83
For Extra Heavy Pipe, Add	88.79	
For Above Ground Cast Iron Pipe Installation, Add	3.43	
For Work In Restricted Working Space, Add	20.60	
22 13 16 00-0029 LF 15" Bell And Spigot Cast Iron Pipe .....	391.39	54.98
For Extra Heavy Pipe, Add	129.77	
For Above Ground Cast Iron Pipe Installation, Add	4.12	
For Work In Restricted Working Space, Add	24.72	
<b>22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)</b>		
<b>22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)</b>		
22 13 16 00-0032 EA 2" Bell And Spigot Cast Iron Long Sweep .....	119.56	40.46
For Extra Heavy Fittings, Add	20.62	
For Above Ground Cast Iron Pipe Installation, Add	3.03	
For Work In Restricted Working Space, Add	18.19	
22 13 16 00-0033 EA 3" Bell And Spigot Cast Iron Long Sweep .....	195.74	50.89
For Extra Heavy Fittings, Add	41.84	
For Above Ground Cast Iron Pipe Installation, Add	3.81	
For Work In Restricted Working Space, Add	22.86	
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep .....	260.75	67.68
For Extra Heavy Fittings, Add	55.77	
For Above Ground Cast Iron Pipe Installation, Add	5.07	
For Work In Restricted Working Space, Add	30.43	
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep .....	391.83	82.45
For Extra Heavy Fittings, Add	93.89	
For Above Ground Cast Iron Pipe Installation, Add	6.18	
For Work In Restricted Working Space, Add	37.07	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep .....	759.26	107.38
For Extra Heavy Fittings, Add	209.41	
For Above Ground Cast Iron Pipe Installation, Add	8.05	
For Work In Restricted Working Space, Add	48.29	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep .....	1,033.77	132.11
For Extra Heavy Fittings, Add	292.49	
For Above Ground Cast Iron Pipe Installation, Add	9.90	
For Work In Restricted Working Space, Add	59.43	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep .....	1,579.35	184.38
For Extra Heavy Fittings, Add	456.02	
For Above Ground Cast Iron Pipe Installation, Add	13.82	
For Work In Restricted Working Space, Add	82.94	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep .....	2,904.86	256.74
For Extra Heavy Fittings, Add	881.98	
For Above Ground Cast Iron Pipe Installation, Add	19.25	
For Work In Restricted Working Space, Add	115.48	
<b>22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)</b>		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep .....	104.00	40.46
For Extra Heavy Fittings, Add	15.18	
For Above Ground Cast Iron Pipe Installation, Add	3.03	
For Work In Restricted Working Space, Add	18.19	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep .....	169.63	50.89
For Extra Heavy Fittings, Add	32.70	
For Above Ground Cast Iron Pipe Installation, Add	3.81	
For Work In Restricted Working Space, Add	22.86	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0043	EA			4" Bell And Spigot Cast Iron Short Sweep ..... 231.40		67.68
				<i>For Extra Heavy Fittings, Add</i> 45.49		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 5.07		
				<i>For Work In Restricted Working Space, Add</i> 30.43		
22 13 16 00-0044	EA			5" Bell And Spigot Cast Iron Short Sweep ..... 329.76		70.07
				<i>For Extra Heavy Fittings, Add</i> 78.66		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 5.25		
				<i>For Work In Restricted Working Space, Add</i> 31.51		
22 13 16 00-0045	EA			6" Bell And Spigot Cast Iron Short Sweep ..... 397.42		82.45
				<i>For Extra Heavy Fittings, Add</i> 95.85		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 6.18		
				<i>For Work In Restricted Working Space, Add</i> 37.07		
22 13 16 00-0046	EA			8" Bell And Spigot Cast Iron Short Sweep ..... 646.76		107.38
				<i>For Extra Heavy Fittings, Add</i> 170.03		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 8.05		
				<i>For Work In Restricted Working Space, Add</i> 48.29		
22 13 16 00-0047	EA			10" Bell And Spigot Cast Iron Short Sweep ..... 937.78		132.11
				<i>For Extra Heavy Fittings, Add</i> 258.89		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 9.90		
				<i>For Work In Restricted Working Space, Add</i> 59.43		
22 13 16 00-0048	EA			12" Bell And Spigot Cast Iron Short Sweep ..... 1,543.55		184.38
				<i>For Extra Heavy Fittings, Add</i> 443.49		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 13.82		
				<i>For Work In Restricted Working Space, Add</i> 82.94		
<b>22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)</b>						
22 13 16 00-0050	EA			2" Bell And Spigot Cast Iron 1/4 Bend ..... 95.13		40.32
				<i>For Extra Heavy Fittings, Add</i> 12.12		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 3.03		
				<i>For Work In Restricted Working Space, Add</i> 18.15		
22 13 16 00-0051	EA			3" Bell And Spigot Cast Iron 1/4 Bend ..... 137.31		45.39
				<i>For Extra Heavy Fittings, Add</i> 24.22		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 3.41		
				<i>For Work In Restricted Working Space, Add</i> 20.43		
22 13 16 00-0052	EA			4" Bell And Spigot Cast Iron 1/4 Bend ..... 194.52		60.49
				<i>For Extra Heavy Fittings, Add</i> 36.35		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 4.53		
				<i>For Work In Restricted Working Space, Add</i> 27.20		
22 13 16 00-0053	EA			5" Bell And Spigot Cast Iron 1/4 Bend ..... 233.27		62.58
				<i>For Extra Heavy Fittings, Add</i> 48.83		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 4.69		
				<i>For Work In Restricted Working Space, Add</i> 28.13		
22 13 16 00-0054	EA			6" Bell And Spigot Cast Iron 1/4 Bend ..... 280.51		74.94
				<i>For Extra Heavy Fittings, Add</i> 58.82		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 5.62		
				<i>For Work In Restricted Working Space, Add</i> 33.74		
22 13 16 00-0055	EA			8" Bell And Spigot Cast Iron 1/4 Bend ..... 565.25		98.89
				<i>For Extra Heavy Fittings, Add</i> 145.96		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 7.41		
				<i>For Work In Restricted Working Space, Add</i> 44.46		
22 13 16 00-0056	EA			10" Bell And Spigot Cast Iron 1/4 Bend ..... 825.13		120.01
				<i>For Extra Heavy Fittings, Add</i> 225.83		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 8.99		
				<i>For Work In Restricted Working Space, Add</i> 53.97		
22 13 16 00-0057	EA			12" Bell And Spigot Cast Iron 1/4 Bend ..... 1,082.43		141.64
				<i>For Extra Heavy Fittings, Add</i> 304.51		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 10.62		
				<i>For Work In Restricted Working Space, Add</i> 63.72		
22 13 16 00-0058	EA			15" Bell And Spigot Cast Iron 1/4 Bend ..... 2,720.46		223.40
				<i>For Extra Heavy Fittings, Add</i> 834.95		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 16.74		
				<i>For Work In Restricted Working Space, Add</i> 100.46		
<b>22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)</b>						
22 13 16 00-0060	EA			2" Bell And Spigot Cast Iron 1/8 Bend ..... 88.29		40.46
				<i>For Extra Heavy Fittings, Add</i> 9.68		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 3.03		
				<i>For Work In Restricted Working Space, Add</i> 18.19		
22 13 16 00-0061	EA			3" Bell And Spigot Cast Iron 1/8 Bend ..... 133.25		50.89
				<i>For Extra Heavy Fittings, Add</i> 19.97		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 3.81		
				<i>For Work In Restricted Working Space, Add</i> 22.86		
22 13 16 00-0062	EA			4" Bell And Spigot Cast Iron 1/8 Bend ..... 187.98		67.68
				<i>For Extra Heavy Fittings, Add</i> 30.30		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 5.07		
				<i>For Work In Restricted Working Space, Add</i> 30.43		
22 13 16 00-0063	EA			5" Bell And Spigot Cast Iron 1/8 Bend ..... 226.52		78.32
				<i>For Extra Heavy Fittings, Add</i> 38.20		
				<i>For Above Ground Cast Iron Pipe Installation, Add</i> 5.87		
				<i>For Work In Restricted Working Space, Add</i> 35.21		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend .....	260.95	87.32
For Extra Heavy Fittings, Add	45.49	
For Above Ground Cast Iron Pipe Installation, Add	6.55	
For Work In Restricted Working Space, Add	39.29	
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend .....	502.81	118.45
For Extra Heavy Fittings, Add	113.82	
For Above Ground Cast Iron Pipe Installation, Add	8.88	
For Work In Restricted Working Space, Add	53.28	
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend .....	696.82	146.14
For Extra Heavy Fittings, Add	167.18	
For Above Ground Cast Iron Pipe Installation, Add	10.96	
For Work In Restricted Working Space, Add	65.75	
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend .....	1,110.60	189.54
For Extra Heavy Fittings, Add	289.28	
For Above Ground Cast Iron Pipe Installation, Add	14.20	
For Work In Restricted Working Space, Add	85.22	
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend .....	2,082.36	223.40
For Extra Heavy Fittings, Add	611.62	
For Above Ground Cast Iron Pipe Installation, Add	16.74	
For Work In Restricted Working Space, Add	100.46	
<b>22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)</b>		
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye .....	162.16	90.37
For Extra Heavy Fittings, Add	9.31	
For Above Ground Cast Iron Pipe Installation, Add	6.78	
For Work In Restricted Working Space, Add	40.67	
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye .....	198.22	98.97
For Extra Heavy Fittings, Add	17.44	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.52	
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye .....	260.70	129.70
For Extra Heavy Fittings, Add	23.21	
For Above Ground Cast Iron Pipe Installation, Add	9.72	
For Work In Restricted Working Space, Add	58.32	
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye .....	312.60	134.78
For Extra Heavy Fittings, Add	38.66	
For Above Ground Cast Iron Pipe Installation, Add	10.11	
For Work In Restricted Working Space, Add	60.64	
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye .....	389.24	159.77
For Extra Heavy Fittings, Add	52.39	
For Above Ground Cast Iron Pipe Installation, Add	11.98	
For Work In Restricted Working Space, Add	71.87	
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye .....	691.36	216.31
For Extra Heavy Fittings, Add	128.46	
For Above Ground Cast Iron Pipe Installation, Add	16.22	
For Work In Restricted Working Space, Add	97.30	
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye .....	950.46	245.42
For Extra Heavy Fittings, Add	203.90	
For Above Ground Cast Iron Pipe Installation, Add	18.39	
For Work In Restricted Working Space, Add	110.37	
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye .....	1,385.07	298.72
For Extra Heavy Fittings, Add	328.02	
For Above Ground Cast Iron Pipe Installation, Add	22.39	
For Work In Restricted Working Space, Add	134.36	
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye .....	2,107.31	335.16
For Extra Heavy Fittings, Add	561.69	
For Above Ground Cast Iron Pipe Installation, Add	25.12	
For Work In Restricted Working Space, Add	150.74	
<b>22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)</b>		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye .....	237.33	94.45
For Extra Heavy Fittings, Add	33.48	
For Above Ground Cast Iron Pipe Installation, Add	7.08	
For Work In Restricted Working Space, Add	42.50	
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye .....	289.55	116.73
For Extra Heavy Fittings, Add	40.06	
For Above Ground Cast Iron Pipe Installation, Add	8.75	
For Work In Restricted Working Space, Add	52.53	
22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye .....	318.89	119.69
For Extra Heavy Fittings, Add	48.77	
For Above Ground Cast Iron Pipe Installation, Add	8.98	
For Work In Restricted Working Space, Add	53.87	
22 13 16 00-0083 EA 6" x 2" Bell And Spigot Cast Iron Reducing Wye .....	446.76	143.15
For Extra Heavy Fittings, Add	81.28	
For Above Ground Cast Iron Pipe Installation, Add	10.73	
For Work In Restricted Working Space, Add	64.36	
22 13 16 00-0084 EA 6" x 3" Bell And Spigot Cast Iron Reducing Wye .....	458.02	145.77
For Extra Heavy Fittings, Add	83.80	
For Above Ground Cast Iron Pipe Installation, Add	10.93	
For Work In Restricted Working Space, Add	65.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0085 EA 6" x 4" Bell And Spigot Cast Iron Reducing Wye .....	480.33	155.52
For Extra Heavy Fittings, Add	86.51	
For Above Ground Cast Iron Pipe Installation, Add	11.66	
For Work In Restricted Working Space, Add	69.95	
22 13 16 00-0086 EA 8" x 2" Bell And Spigot Cast Iron Reducing Wye .....	691.51	173.95
For Extra Heavy Fittings, Add	150.76	
For Above Ground Cast Iron Pipe Installation, Add	13.04	
For Work In Restricted Working Space, Add	78.23	
22 13 16 00-0087 EA 8" x 3" Bell And Spigot Cast Iron Reducing Wye .....	721.37	177.30
For Extra Heavy Fittings, Add	159.46	
For Above Ground Cast Iron Pipe Installation, Add	13.29	
For Work In Restricted Working Space, Add	79.73	
22 13 16 00-0088 EA 8" x 4" Bell And Spigot Cast Iron Reducing Wye .....	740.09	185.67
For Extra Heavy Fittings, Add	161.60	
For Above Ground Cast Iron Pipe Installation, Add	13.92	
For Work In Restricted Working Space, Add	83.52	
22 13 16 00-0089 EA 8" x 6" Bell And Spigot Cast Iron Reducing Wye .....	870.37	206.53
For Extra Heavy Fittings, Add	196.23	
For Above Ground Cast Iron Pipe Installation, Add	15.49	
For Work In Restricted Working Space, Add	92.91	
22 13 16 00-0090 EA 10" x 3" Bell And Spigot Cast Iron Reducing Wye .....	1,053.75	193.52
For Extra Heavy Fittings, Add	267.26	
For Above Ground Cast Iron Pipe Installation, Add	14.51	
For Work In Restricted Working Space, Add	87.05	
22 13 16 00-0091 EA 10" x 4" Bell And Spigot Cast Iron Reducing Wye .....	1,096.42	202.02
For Extra Heavy Fittings, Add	277.71	
For Above Ground Cast Iron Pipe Installation, Add	15.15	
For Work In Restricted Working Space, Add	90.89	
22 13 16 00-0092 EA 10" x 6" Bell And Spigot Cast Iron Reducing Wye .....	1,200.21	223.40
For Extra Heavy Fittings, Add	302.87	
For Above Ground Cast Iron Pipe Installation, Add	16.74	
For Work In Restricted Working Space, Add	100.46	
22 13 16 00-0093 EA 10" x 8" Bell And Spigot Cast Iron Reducing Wye .....	1,568.32	236.92
For Extra Heavy Fittings, Add	424.60	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.56	
22 13 16 00-0094 EA 12" x 4" Bell And Spigot Cast Iron Reducing Wye .....	1,612.00	236.92
For Extra Heavy Fittings, Add	439.88	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.56	
22 13 16 00-0095 EA 12" x 6" Bell And Spigot Cast Iron Reducing Wye .....	1,681.00	256.74
For Extra Heavy Fittings, Add	453.62	
For Above Ground Cast Iron Pipe Installation, Add	19.25	
For Work In Restricted Working Space, Add	115.48	
22 13 16 00-0096 EA 12" x 8" Bell And Spigot Cast Iron Reducing Wye .....	1,963.77	269.50
For Extra Heavy Fittings, Add	545.94	
For Above Ground Cast Iron Pipe Installation, Add	20.20	
For Work In Restricted Working Space, Add	121.19	
22 13 16 00-0097 EA 12" x 10" Bell And Spigot Cast Iron Reducing Wye .....	2,371.19	277.48
For Extra Heavy Fittings, Add	684.31	
For Above Ground Cast Iron Pipe Installation, Add	20.80	
For Work In Restricted Working Space, Add	124.81	
22 13 16 00-0098 EA 15" x 4" Bell And Spigot Cast Iron Reducing Wye .....	3,858.02	261.64
For Extra Heavy Fittings, Add	1,213.02	
For Above Ground Cast Iron Pipe Installation, Add	19.61	
For Work In Restricted Working Space, Add	117.68	
22 13 16 00-0099 EA 15" x 6" Bell And Spigot Cast Iron Reducing Wye .....	4,029.69	283.15
For Extra Heavy Fittings, Add	1,261.79	
For Above Ground Cast Iron Pipe Installation, Add	21.23	
For Work In Restricted Working Space, Add	127.38	
22 13 16 00-0100 EA 15" x 8" Bell And Spigot Cast Iron Reducing Wye .....	4,114.30	295.38
For Extra Heavy Fittings, Add	1,285.01	
For Above Ground Cast Iron Pipe Installation, Add	22.14	
For Work In Restricted Working Space, Add	132.86	
22 13 16 00-0101 EA 15" x 10" Bell And Spigot Cast Iron Reducing Wye .....	4,211.10	305.41
For Extra Heavy Fittings, Add	1,313.65	
For Above Ground Cast Iron Pipe Installation, Add	22.89	
For Work In Restricted Working Space, Add	137.34	
22 13 16 00-0102 EA 15" x 12" Bell And Spigot Cast Iron Reducing Wye .....	4,320.74	323.18
For Extra Heavy Fittings, Add	1,342.68	
For Above Ground Cast Iron Pipe Installation, Add	24.23	
For Work In Restricted Working Space, Add	145.35	
<b>22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)</b>		
22 13 16 00-0104 EA 2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend .....	173.55	90.37
For Extra Heavy Fittings, Add	13.30	
For Above Ground Cast Iron Pipe Installation, Add	6.78	
For Work In Restricted Working Space, Add	40.67	
22 13 16 00-0105 EA 3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend .....	205.24	98.97
For Extra Heavy Fittings, Add	19.89	
For Above Ground Cast Iron Pipe Installation, Add	7.42	
For Work In Restricted Working Space, Add	44.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0106 EA 4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	272.92	129.70
For Extra Heavy Fittings, Add	27.48	
For Above Ground Cast Iron Pipe Installation, Add	9.72	
For Work In Restricted Working Space, Add	58.32	
22 13 16 00-0107 EA 5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	354.20	141.40
For Extra Heavy Fittings, Add	49.79	
For Above Ground Cast Iron Pipe Installation, Add	10.60	
For Work In Restricted Working Space, Add	63.58	
22 13 16 00-0108 EA 6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	443.04	175.38
For Extra Heavy Fittings, Add	63.05	
For Above Ground Cast Iron Pipe Installation, Add	13.15	
For Work In Restricted Working Space, Add	78.87	
22 13 16 00-0109 EA 8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	787.70	232.92
For Extra Heavy Fittings, Add	153.49	
For Above Ground Cast Iron Pipe Installation, Add	17.46	
For Work In Restricted Working Space, Add	104.75	
22 13 16 00-0110 EA 10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	1,126.86	305.41
For Extra Heavy Fittings, Add	234.17	
For Above Ground Cast Iron Pipe Installation, Add	22.89	
For Work In Restricted Working Space, Add	137.34	
22 13 16 00-0111 EA 12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	1,505.45	392.59
For Extra Heavy Fittings, Add	320.89	
For Above Ground Cast Iron Pipe Installation, Add	29.43	
For Work In Restricted Working Space, Add	176.58	
<b>22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0030)</small>		
22 13 16 00-0113 EA 3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	184.30	94.45
For Extra Heavy Fittings, Add	14.92	
For Above Ground Cast Iron Pipe Installation, Add	7.08	
For Work In Restricted Working Space, Add	42.50	
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	253.39	116.73
For Extra Heavy Fittings, Add	27.41	
For Above Ground Cast Iron Pipe Installation, Add	8.75	
For Work In Restricted Working Space, Add	52.53	
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	271.17	119.69
For Extra Heavy Fittings, Add	32.07	
For Above Ground Cast Iron Pipe Installation, Add	8.98	
For Work In Restricted Working Space, Add	53.87	
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	378.33	143.15
For Extra Heavy Fittings, Add	57.33	
For Above Ground Cast Iron Pipe Installation, Add	10.73	
For Work In Restricted Working Space, Add	64.36	
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	393.06	145.77
For Extra Heavy Fittings, Add	61.06	
For Above Ground Cast Iron Pipe Installation, Add	10.93	
For Work In Restricted Working Space, Add	65.58	
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	416.95	155.52
For Extra Heavy Fittings, Add	64.32	
For Above Ground Cast Iron Pipe Installation, Add	11.66	
For Work In Restricted Working Space, Add	69.95	
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	564.41	173.95
For Extra Heavy Fittings, Add	106.27	
For Above Ground Cast Iron Pipe Installation, Add	13.04	
For Work In Restricted Working Space, Add	78.23	
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	582.02	185.67
For Extra Heavy Fittings, Add	106.27	
For Above Ground Cast Iron Pipe Installation, Add	13.92	
For Work In Restricted Working Space, Add	83.52	
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	726.53	206.53
For Extra Heavy Fittings, Add	145.89	
For Above Ground Cast Iron Pipe Installation, Add	15.49	
For Work In Restricted Working Space, Add	92.91	
<b>22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes</b> <small>(22 13 16 00-0030)</small>		
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye.....	267.11	108.13
For Extra Heavy Fittings, Add	36.77	
For Above Ground Cast Iron Pipe Installation, Add	8.10	
For Work In Restricted Working Space, Add	48.62	
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye.....	380.70	136.33
For Extra Heavy Fittings, Add	61.73	
For Above Ground Cast Iron Pipe Installation, Add	10.22	
For Work In Restricted Working Space, Add	61.30	
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye.....	511.82	172.42
For Extra Heavy Fittings, Add	88.63	
For Above Ground Cast Iron Pipe Installation, Add	12.93	
For Work In Restricted Working Space, Add	77.57	
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye.....	929.80	245.45
For Extra Heavy Fittings, Add	196.62	
For Above Ground Cast Iron Pipe Installation, Add	18.40	
For Work In Restricted Working Space, Add	110.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0127	EA		8" Bell And Spigot Cast Iron Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,805.73 478.59 21.92 131.50	292.41
22 13 16 00-0128	EA		10" Bell And Spigot Cast Iron Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,374.34 659.34 24.53 147.15	327.18
22 13 16 00-0129	EA		12" Bell And Spigot Cast Iron Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,697.62 388.15 29.43 176.58	392.59
22 13 16 00-0130	EA		15" Bell And Spigot Cast Iron Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,571.99 1,383.87 30.90 185.42	412.03
<b>22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)</b>					
22 13 16 00-0132	EA		3" x 2" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.74 21.69 9.59 57.53	127.87
22 13 16 00-0133	EA		4" x 2" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	294.21 25.88 11.01 66.08	146.90
22 13 16 00-0134	EA		4" x 3" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	316.76 29.98 11.56 69.33	154.09
22 13 16 00-0135	EA		6" x 2" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	383.07 44.74 12.76 76.57	170.26
22 13 16 00-0136	EA		6" x 3" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	404.98 49.00 13.25 79.49	176.75
22 13 16 00-0137	EA		6" x 4" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	462.81 60.84 14.45 86.69	192.74
22 13 16 00-0138	EA		8" x 4" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	723.73 135.10 16.89 101.32	225.33
22 13 16 00-0139	EA		8" x 6" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	794.88 138.25 19.99 119.96	266.66
22 13 16 00-0140	EA		10" x 4" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	771.31 143.46 18.07 108.43	241.04
22 13 16 00-0141	EA		10" x 6" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	899.61 166.26 21.23 127.38	283.15
22 13 16 00-0142	EA		10" x 8" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,096.13 221.68 23.14 138.83	308.63
22 13 16 00-0143	EA		12" x 6" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,119.75 226.23 23.67 142.01	315.72
22 13 16 00-0144	EA		12" x 8" Bell And Spigot Cast Iron Reducing Double Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,412.82 314.23 25.75 154.51	343.53
<b>22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends (22 13 16 00-0030)</b>					
22 13 16 00-0146	EA		2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.45 23.59 8.10 48.62	108.13
22 13 16 00-0147	EA		3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	308.68 32.13 10.84 65.07	144.64

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	400.27 45.21 13.56 81.33	180.88
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	811.72 140.15 20.56 123.39	274.31
<b>22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0030)</small>		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	300.94 37.29 9.72 58.32	129.70
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	354.52 46.98 11.01 66.08	146.90
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	397.45 53.32 12.26 73.53	163.54
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	734.29 149.62 15.34 92.04	204.61
<b>22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees</b> <small>(22 13 16 00-0030)</small>		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	188.21 18.39 6.78 40.70	90.51
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.54 22.45 7.42 44.52	98.97
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	327.84 51.09 9.09 54.56	121.24
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	446.88 90.96 9.35 56.10	124.66
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	536.06 109.15 11.21 67.26	149.53
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,117.44 287.39 14.82 88.90	197.65
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,661.91 455.17 18.07 108.43	241.04
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,456.06 711.01 21.23 127.38	283.15
<b>22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees</b> <small>(22 13 16 00-0030)</small>		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	242.30 35.22 7.08 42.50	94.45
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	286.40 42.19 8.29 49.76	110.67
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	298.01 46.25 8.29 49.76	110.67
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	431.28 75.86 10.73 64.36	143.15





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	448.07 80.31 10.93 65.58	145.77
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	485.31 88.25 11.66 69.95	155.52
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	805.88 184.62 13.92 83.52	185.67
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,003.63 242.88 15.49 92.91	206.53
<b>22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees</b> (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.25 10.74 6.78 40.67	90.37
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	201.81 18.69 7.42 44.52	98.97
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	266.78 25.33 9.72 58.32	129.70
22 13 16 00-0177 EA 5" Bell And Spigot Cast Iron Vent Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	319.92 37.80 10.60 63.58	141.40
22 13 16 00-0178 EA 6" Bell And Spigot Cast Iron Vent Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	402.02 48.69 13.15 78.87	175.38
22 13 16 00-0179 EA 8" Bell And Spigot Cast Iron Vent Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	672.91 113.31 17.46 104.75	232.92
<b>22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees</b> (22 13 16 00-0030)		
22 13 16 00-0181 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	169.84 12.00 6.78 40.67	90.37
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	187.16 13.57 7.42 44.52	98.97
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	242.17 16.72 9.72 58.32	129.70
<b>22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses</b> (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.11 12.79 6.78 40.67	90.37
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.47 15.07 7.42 44.52	98.97
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.01 20.51 9.72 58.32	129.70
<b>22 13 16 00-0188 Bell And Spigot Cast Iron Reducers</b> (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.61 6.79 3.81 22.86	50.89
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.99 7.10 5.04 30.21	67.10

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer .....	127.80	67.68
For Extra Heavy Fittings, Add	9.23	
For Above Ground Cast Iron Pipe Installation, Add	5.07	
For Work In Restricted Working Space, Add	30.43	
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer .....	151.88	75.70
For Extra Heavy Fittings, Add	13.41	
For Above Ground Cast Iron Pipe Installation, Add	5.68	
For Work In Restricted Working Space, Add	34.07	
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer .....	158.13	76.70
For Extra Heavy Fittings, Add	15.07	
For Above Ground Cast Iron Pipe Installation, Add	5.75	
For Work In Restricted Working Space, Add	34.52	
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer .....	162.93	78.32
For Extra Heavy Fittings, Add	15.95	
For Above Ground Cast Iron Pipe Installation, Add	5.87	
For Work In Restricted Working Space, Add	35.21	
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer .....	205.11	80.69
For Extra Heavy Fittings, Add	29.44	
For Above Ground Cast Iron Pipe Installation, Add	6.05	
For Work In Restricted Working Space, Add	36.30	
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer .....	235.37	100.30
For Extra Heavy Fittings, Add	29.75	
For Above Ground Cast Iron Pipe Installation, Add	7.52	
For Work In Restricted Working Space, Add	45.11	
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer .....	241.54	102.88
For Extra Heavy Fittings, Add	30.54	
For Above Ground Cast Iron Pipe Installation, Add	7.71	
For Work In Restricted Working Space, Add	46.29	
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer .....	249.81	107.38
For Extra Heavy Fittings, Add	31.10	
For Above Ground Cast Iron Pipe Installation, Add	8.05	
For Work In Restricted Working Space, Add	48.29	
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer .....	307.89	120.52
For Extra Heavy Fittings, Add	44.51	
For Above Ground Cast Iron Pipe Installation, Add	9.04	
For Work In Restricted Working Space, Add	54.22	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer .....	324.48	126.57
For Extra Heavy Fittings, Add	47.12	
For Above Ground Cast Iron Pipe Installation, Add	9.49	
For Work In Restricted Working Space, Add	56.95	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer .....	344.89	132.11
For Extra Heavy Fittings, Add	51.38	
For Above Ground Cast Iron Pipe Installation, Add	9.90	
For Work In Restricted Working Space, Add	59.43	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer .....	422.22	143.18
For Extra Heavy Fittings, Add	72.67	
For Above Ground Cast Iron Pipe Installation, Add	10.73	
For Work In Restricted Working Space, Add	64.38	
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer .....	473.29	167.52
For Extra Heavy Fittings, Add	77.72	
For Above Ground Cast Iron Pipe Installation, Add	12.56	
For Work In Restricted Working Space, Add	75.37	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer .....	514.78	190.82
For Extra Heavy Fittings, Add	80.02	
For Above Ground Cast Iron Pipe Installation, Add	14.31	
For Work In Restricted Working Space, Add	85.84	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer .....	567.17	219.80
For Extra Heavy Fittings, Add	83.18	
For Above Ground Cast Iron Pipe Installation, Add	16.48	
For Work In Restricted Working Space, Add	98.86	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer .....	720.94	219.80
For Extra Heavy Fittings, Add	137.00	
For Above Ground Cast Iron Pipe Installation, Add	16.48	
For Work In Restricted Working Space, Add	98.86	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer .....	768.01	236.92
For Extra Heavy Fittings, Add	144.49	
For Above Ground Cast Iron Pipe Installation, Add	17.76	
For Work In Restricted Working Space, Add	106.56	
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer .....	800.66	249.80
For Extra Heavy Fittings, Add	149.13	
For Above Ground Cast Iron Pipe Installation, Add	18.73	
For Work In Restricted Working Space, Add	112.37	
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer .....	844.70	266.66
For Extra Heavy Fittings, Add	155.69	
For Above Ground Cast Iron Pipe Installation, Add	19.99	
For Work In Restricted Working Space, Add	119.96	
<b>22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)</b>		
22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap .....	93.82	40.46
For Extra Heavy Fittings, Add	11.61	
For Above Ground Cast Iron Pipe Installation, Add	3.03	
For Work In Restricted Working Space, Add	18.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	124.47 16.89 3.81 22.86	50.89
22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	169.04 23.67 5.07 30.43	67.68
22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	250.00 50.74 5.25 31.51	70.07
22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	332.36 73.08 6.18 37.07	82.45
22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	718.30 195.07 8.05 48.29	107.38
22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	800.23 210.75 9.90 59.43	132.11
<b>22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps</b> (22 13 16 00-0030)		
22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.42 16.02 3.03 18.19	40.46
22 13 16 00-0220 EA 3" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.24 25.56 3.81 22.86	50.89
22 13 16 00-0221 EA 4" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	215.10 39.79 5.07 30.43	67.68
22 13 16 00-0222 EA 5" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	335.17 76.23 5.87 35.21	78.32
22 13 16 00-0223 EA 6" Bell And Spigot Cast Iron Deep Seal P-Trap..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	356.90 79.08 6.55 39.29	87.32
<b>22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent</b> (22 13 16 00-0030)		
22 13 16 00-0225 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.50 7.42 44.52	97.70
22 13 16 00-0226 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	329.29 9.72 58.32	128.43
22 13 16 00-0227 EA 5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	420.43 10.28 61.70	136.04
22 13 16 00-0228 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	811.32 11.66 69.95	154.15
22 13 16 00-0229 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,573.66 13.92 83.52	183.61
22 13 16 00-0230 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,788.24 15.49 92.91	204.86
<b>22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent</b> (22 13 16 00-0030)		
22 13 16 00-0232 EA 3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	320.10 10.22 61.30	134.92
22 13 16 00-0233 EA 4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	432.25 12.93 77.57	170.30
22 13 16 00-0234 EA 6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	909.82 14.45 86.69	190.49
22 13 16 00-0235 EA 6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,057.89 17.47 104.83	230.59

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0236 EA 8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,779.35 16.89 101.32	222.63
22 13 16 00-0237 EA 8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,055.53 19.99 119.96	264.34
22 13 16 00-0238 EA 10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,050.61 23.14 138.83	305.03
22 13 16 00-0239 EA 12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,585.87 26.71 160.28	352.67
22 13 16 00-0240 EA 15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,792.35 30.92 185.49	407.91
<b>22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)</b>		
22 13 16 00-0242 EA 2" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.91 3.02 18.15	
22 13 16 00-0243 EA 3" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.16 3.40 20.39	
22 13 16 00-0244 EA 4" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	283.71 4.55 27.31	
22 13 16 00-0245 EA 5" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	348.80 5.29 31.72	
22 13 16 00-0246 EA 6" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	423.43 6.39 38.32	
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	783.30 8.07 48.43	
<b>22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)</b>		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.85 0.84 5.06	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.38 0.92 5.51	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.97 1.15 6.89	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.56 1.38 8.27	
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.75 1.84 11.03	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.87 2.14 12.86	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.53 2.53 15.16	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.19 2.91 17.46	
<b>22 13 16 00-0257 Joint Material (22 13 16 00-0019)</b>		
Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	7.19	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	15.45	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	3.17	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....	4.34	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....	5.40	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....	8.95	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....	19.74	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....	30.27	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....	38.57	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....	45.81	
<b>22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings (22 13 16)</b>		
Note: Service Weight. Excludes hangers.		
<b>22 13 16 00-0269 No Hub Cast Iron Pipe (22 13 16 00-0268)</b>		
Note: Excludes couplings.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.46 0.64 3.81	8.46
22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.82 0.68 4.09	9.02
22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.45 0.99 5.92	13.11
22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.11 1.28 7.69	17.05
22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.62 1.43 8.60	19.11
22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.62 1.56 9.37	20.86
22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.75 2.26 13.58	30.26
22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	126.89 2.58 15.45	34.38
<b>22 13 16 00-0278 No Hub Cast Iron Fittings</b> (22 13 16 00-0268)		
<b>22 13 16 00-0279 No Hub Cast Iron Long Sweeps</b> (22 13 16 00-0278)		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	76.43 2.88 17.26	38.34
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.35 3.00 18.00	40.04
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.03 3.44 20.63	45.81
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.11 4.55 27.29	60.63
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.11 4.73 28.36	63.08
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.30 5.64 33.85	75.20
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	361.71 7.36 44.15	98.11
<b>22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps</b> (22 13 16 00-0278)		
22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.02 3.44 20.63	45.81
22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	165.20 4.55 27.29	60.63
<b>22 13 16 00-0290 No Hub Cast Iron Short Sweeps</b> (22 13 16 00-0278)		
22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.33 3.00 18.00	40.04
22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.85 3.44 20.63	45.81
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.44 4.55 27.29	60.63
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.73 4.73 28.36	63.08
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.55 5.64 33.85	75.20
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	332.23 7.36 44.15	98.11
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	531.54 10.30 61.80	137.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 16 00-0298 No Hub Cast Iron 1/4 Bends</b> (22 13 16 00-0278)		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend .....	69.44	38.34
For Below Ground Installation, Add	2.88	
For Work In Restricted Working Space, Add	17.26	
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend .....	72.56	40.04
For Below Ground Installation, Add	3.00	
For Work In Restricted Working Space, Add	18.00	
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend .....	85.36	45.81
For Below Ground Installation, Add	3.44	
For Work In Restricted Working Space, Add	20.63	
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend .....	115.53	60.63
For Below Ground Installation, Add	4.55	
For Work In Restricted Working Space, Add	27.29	
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend .....	149.42	63.08
For Below Ground Installation, Add	4.73	
For Work In Restricted Working Space, Add	28.36	
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend .....	173.67	75.20
For Below Ground Installation, Add	5.64	
For Work In Restricted Working Space, Add	33.85	
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend .....	309.27	98.11
For Below Ground Installation, Add	7.36	
For Work In Restricted Working Space, Add	44.15	
<b>22 13 16 00-0306 No Hub Cast Iron 1/8 Bends</b> (22 13 16 00-0278)		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend .....	66.88	38.34
For Below Ground Installation, Add	2.88	
For Work In Restricted Working Space, Add	17.26	
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend .....	69.54	40.04
For Below Ground Installation, Add	3.00	
For Work In Restricted Working Space, Add	18.00	
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend .....	82.39	45.81
For Below Ground Installation, Add	3.44	
For Work In Restricted Working Space, Add	20.63	
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend .....	108.85	60.63
For Below Ground Installation, Add	4.55	
For Work In Restricted Working Space, Add	27.29	
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend .....	175.11	89.53
For Below Ground Installation, Add	6.71	
For Work In Restricted Working Space, Add	40.28	
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend .....	284.97	117.58
For Below Ground Installation, Add	8.81	
For Work In Restricted Working Space, Add	52.87	
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend .....	422.00	144.64
For Below Ground Installation, Add	10.84	
For Work In Restricted Working Space, Add	65.07	
<b>22 13 16 00-0314 No Hub Cast Iron Wyes</b> (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye .....	106.96	60.34
For Below Ground Installation, Add	4.52	
For Work In Restricted Working Space, Add	27.11	
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye .....	139.39	81.77
For Below Ground Installation, Add	6.13	
For Work In Restricted Working Space, Add	36.78	
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye .....	157.22	89.53
For Below Ground Installation, Add	6.71	
For Work In Restricted Working Space, Add	40.28	
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye .....	213.48	117.58
For Below Ground Installation, Add	8.81	
For Work In Restricted Working Space, Add	52.87	
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye .....	264.69	122.79
For Below Ground Installation, Add	9.20	
For Work In Restricted Working Space, Add	55.22	
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye .....	314.13	145.77
For Below Ground Installation, Add	10.93	
For Work In Restricted Working Space, Add	65.58	
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye .....	518.77	196.36
For Below Ground Installation, Add	14.72	
For Work In Restricted Working Space, Add	88.29	
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye .....	813.03	218.12
For Below Ground Installation, Add	16.35	
For Work In Restricted Working Space, Add	98.10	
<b>22 13 16 00-0323 No Hub Cast Iron Reducing Wyes</b> (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye .....	135.11	78.10
For Below Ground Installation, Add	5.85	
For Work In Restricted Working Space, Add	35.10	
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye .....	152.37	89.53
For Below Ground Installation, Add	6.71	
For Work In Restricted Working Space, Add	40.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.57 7.42 44.52	98.97
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.93 8.24 49.47	109.97
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	237.54 9.30 55.81	124.04
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	252.38 9.72 58.29	129.66
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	290.72 11.36 68.14	151.52
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	359.98 11.57 69.44	154.38
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	413.06 12.72 76.30	169.70
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	607.20 13.55 81.32	180.78
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	641.83 14.51 87.05	193.52
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	732.11 15.49 92.94	206.66
<b>22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)</b>		
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.01 5.26 31.56	70.21
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.07 6.13 36.78	81.77
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.33 6.71 40.28	89.53
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.94 8.81 52.87	117.58
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	401.29 13.56 81.33	180.88
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	674.55 17.40 104.38	232.06
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	795.63 21.03 126.18	280.56
<b>22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)</b>		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.90 6.13 36.78	81.77
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	154.92 6.71 40.28	89.53
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	176.68 7.42 44.52	98.97
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	200.89 8.24 49.47	109.97
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	252.41 9.30 55.81	124.04
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	278.37 9.72 58.29	129.66
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	313.47 11.36 68.14	151.52
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	402.50 11.57 69.44	154.38
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	510.27 12.72 76.30	169.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 16 00-0354</b> <b>No Hub Cast Iron Double Wyes</b> (22 13 16 00-0278)		
22 13 16 00-0355    EA    2" No Hub Cast Iron Double Wye .....175.84		101.64
<i>For Below Ground Installation, Add</i> .....	7.62	
<i>For Work In Restricted Working Space, Add</i> .....	45.72	
22 13 16 00-0356    EA    3" No Hub Cast Iron Double Wye .....228.70		123.78
<i>For Below Ground Installation, Add</i> .....	9.28	
<i>For Work In Restricted Working Space, Add</i> .....	55.65	
22 13 16 00-0357    EA    4" No Hub Cast Iron Double Wye .....291.76		135.34
<i>For Below Ground Installation, Add</i> .....	10.14	
<i>For Work In Restricted Working Space, Add</i> .....	60.86	
22 13 16 00-0358    EA    6" No Hub Cast Iron Double Wye .....428.60		183.75
<i>For Below Ground Installation, Add</i> .....	13.77	
<i>For Work In Restricted Working Space, Add</i> .....	82.62	
22 13 16 00-0359    EA    8" No Hub Cast Iron Double Wye .....789.42		249.80
<i>For Below Ground Installation, Add</i> .....	18.73	
<i>For Work In Restricted Working Space, Add</i> .....	112.37	
<b>22 13 16 00-0360</b> <b>No Hub Cast Iron Reducing Double Wyes</b> (22 13 16 00-0278)		
22 13 16 00-0361    EA    3" x 2" No Hub Cast Iron Double Wye .....205.89		112.64
<i>For Below Ground Installation, Add</i> .....	8.44	
<i>For Work In Restricted Working Space, Add</i> .....	50.65	
22 13 16 00-0362    EA    4" x 2" No Hub Cast Iron Double Wye .....244.24		129.70
<i>For Below Ground Installation, Add</i> .....	9.72	
<i>For Work In Restricted Working Space, Add</i> .....	58.34	
22 13 16 00-0363    EA    4" x 3" No Hub Cast Iron Double Wye .....268.15		141.40
<i>For Below Ground Installation, Add</i> .....	10.60	
<i>For Work In Restricted Working Space, Add</i> .....	63.60	
22 13 16 00-0364    EA    6" x 4" No Hub Cast Iron Double Wye .....367.12		162.01
<i>For Below Ground Installation, Add</i> .....	12.14	
<i>For Work In Restricted Working Space, Add</i> .....	72.87	
<b>22 13 16 00-0365</b> <b>No Hub Cast Iron Double Combination Wye And 1/8 Bends</b> (22 13 16 00-0278)		
22 13 16 00-0366    EA    2" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....224.16		122.09
<i>For Below Ground Installation, Add</i> .....	9.16	
<i>For Work In Restricted Working Space, Add</i> .....	54.93	
22 13 16 00-0367    EA    3" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....266.45		135.34
<i>For Below Ground Installation, Add</i> .....	10.14	
<i>For Work In Restricted Working Space, Add</i> .....	60.86	
22 13 16 00-0368    EA    4" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....390.01		179.18
<i>For Below Ground Installation, Add</i> .....	13.43	
<i>For Work In Restricted Working Space, Add</i> .....	80.56	
22 13 16 00-0369    EA    6" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....556.47		276.60
<i>For Below Ground Installation, Add</i> .....	20.73	
<i>For Work In Restricted Working Space, Add</i> .....	124.40	
<b>22 13 16 00-0370</b> <b>No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends</b> (22 13 16 00-0278)		
22 13 16 00-0371    EA    3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....205.16		105.03
<i>For Below Ground Installation, Add</i> .....	7.88	
<i>For Work In Restricted Working Space, Add</i> .....	47.26	
22 13 16 00-0372    EA    4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....237.99		122.09
<i>For Below Ground Installation, Add</i> .....	9.16	
<i>For Work In Restricted Working Space, Add</i> .....	54.93	
22 13 16 00-0373    EA    4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....279.75		133.37
<i>For Below Ground Installation, Add</i> .....	10.00	
<i>For Work In Restricted Working Space, Add</i> .....	59.99	
<b>22 13 16 00-0374</b> <b>No Hub Cast Iron Sanitary Tees</b> (22 13 16 00-0278)		
22 13 16 00-0375    EA    1-1/2" No Hub Cast Iron Sanitary Tee .....104.43		59.07
<i>For Below Ground Installation, Add</i> .....	4.43	
<i>For Work In Restricted Working Space, Add</i> .....	26.60	
22 13 16 00-0376    EA    2" No Hub Cast Iron Sanitary Tee.....140.23		81.77
<i>For Below Ground Installation, Add</i> .....	6.13	
<i>For Work In Restricted Working Space, Add</i> .....	36.78	
22 13 16 00-0377    EA    3" No Hub Cast Iron Sanitary Tee.....155.34		89.53
<i>For Below Ground Installation, Add</i> .....	6.71	
<i>For Work In Restricted Working Space, Add</i> .....	40.28	
22 13 16 00-0378    EA    4" No Hub Cast Iron Sanitary Tee.....209.21		117.58
<i>For Below Ground Installation, Add</i> .....	8.81	
<i>For Work In Restricted Working Space, Add</i> .....	52.87	
22 13 16 00-0379    EA    5" No Hub Cast Iron Sanitary Tee.....265.58		122.79
<i>For Below Ground Installation, Add</i> .....	9.20	
<i>For Work In Restricted Working Space, Add</i> .....	55.22	
22 13 16 00-0380    EA    6" No Hub Cast Iron Sanitary Tee.....313.51		145.77
<i>For Below Ground Installation, Add</i> .....	10.93	
<i>For Work In Restricted Working Space, Add</i> .....	65.58	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	571.52 14.72 88.29	196.36
<b>22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees</b> (22 13 16 00-0278)		
22 13 16 00-0383 EA 2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.62 5.00 29.99	66.68
22 13 16 00-0384 EA 3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.57 5.85 35.10	78.10
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.16 6.13 36.78	81.77
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.35 6.13 36.78	81.77
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	190.96 8.29 49.76	110.67
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.86 8.29 49.76	110.67
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.16 8.74 52.46	116.67
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.00 8.74 52.46	116.67
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.83 8.74 52.46	116.67
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	250.05 9.11 54.65	121.54
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	454.78 12.41 74.46	165.59
<b>22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees</b> (22 13 16 00-0278)		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	77.68 3.00 18.00	40.04
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.01 3.44 20.63	45.81
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.66 4.55 27.29	60.63
<b>22 13 16 00-0398 No Hub Cast Iron Cleanout Tees</b> (22 13 16 00-0278)		
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.60 3.00 18.00	40.04
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.25 3.44 20.63	45.81
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.22 4.55 27.29	60.63
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	214.77 6.71 40.28	89.53
<b>22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees</b> (22 13 16 00-0278)		
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	294.08 8.81 52.87	117.58
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	377.30 13.39 80.36	178.62
<b>22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs</b> (22 13 16 00-0278)		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.20 3.00 18.00	40.04
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.53 3.44 20.63	45.81

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.47 4.55 27.29	60.63
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.85 6.71 40.28	89.53
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	223.76 8.81 52.87	117.58
<b>22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)</b>		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.76 5.92 35.54	78.95
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.20 6.13 36.78	81.77
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	176.16 6.71 40.28	89.53
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	254.96 8.81 52.87	117.58
<b>22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)</b>		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.15 7.87 47.24	105.03
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	215.34 8.11 48.64	108.13
22 13 16 00-0420 EA 4" x 3" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.44 8.46 50.76	112.93
<b>22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)</b>		
22 13 16 00-0422 EA 3" x 2" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	131.51 6.13 36.78	81.77
22 13 16 00-0423 EA 4" x 2" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	179.48 8.29 49.76	110.67
22 13 16 00-0424 EA 4" x 3" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	179.90 8.29 49.76	110.67
22 13 16 00-0425 EA 5" x 2" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	194.86 8.74 52.46	116.67
22 13 16 00-0426 EA 5" x 3" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	197.63 8.74 52.46	116.67
22 13 16 00-0427 EA 5" x 4" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.72 8.74 52.46	116.67
22 13 16 00-0428 EA 6" x 3" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.80 9.72 58.29	129.66
22 13 16 00-0429 EA 6" x 4" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.22 9.72 58.29	129.66
22 13 16 00-0430 EA 6" x 5" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.47 9.72 58.29	129.66
22 13 16 00-0431 EA 8" x 2" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	320.66 13.73 82.41	183.22
22 13 16 00-0432 EA 8" x 3" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	323.84 13.73 82.41	183.22
22 13 16 00-0433 EA 8" x 4" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	328.95 13.73 82.41	183.22
22 13 16 00-0434 EA 8" x 5" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	334.28 13.73 82.41	183.22
22 13 16 00-0435 EA 8" x 6" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	334.90 13.73 82.41	183.22
22 13 16 00-0436 EA 10" x 4" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	388.43 14.49 86.91	193.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0437 EA 10" x 6" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	413.19 15.13 90.77	201.77
22 13 16 00-0438 EA 10" x 8" No Hub Cast Iron Reducer ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	460.88 16.42 98.51	219.02
<b>22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)</b>		
22 13 16 00-0440 EA 1-1/2" No Hub Cast Iron Blind Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.88 1.44 8.63	19.19
22 13 16 00-0441 EA 2" No Hub Cast Iron Blind Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.90 1.50 9.00	20.02
22 13 16 00-0442 EA 3" No Hub Cast Iron Blind Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.09 1.72 10.31	22.98
22 13 16 00-0443 EA 4" No Hub Cast Iron Blind Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.13 2.27 13.63	30.31
22 13 16 00-0444 EA 5" No Hub Cast Iron Blind Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.80 2.40 14.43	32.11
22 13 16 00-0445 EA 6" No Hub Cast Iron Blind Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.37 2.82 16.94	37.60
22 13 16 00-0446 EA 8" No Hub Cast Iron Blind Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.65 3.68 22.06	49.05
22 13 16 00-0447 EA 10" No Hub Cast Iron Blind Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.58 3.96 23.75	52.79
<b>22 13 16 00-0448 No Hub Cast Iron P-Traps (22 13 16 00-0278)</b>		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.10 3.00 18.00	40.04
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.04 3.44 20.63	45.81
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.64 4.55 27.29	60.63
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	259.31 4.76 28.58	63.58
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	277.88 5.68 34.10	75.82
<b>22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)</b>		
22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.40 3.81 22.86	50.89
22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	170.34 5.07 30.43	67.68
22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	244.54 6.70 40.18	89.39
<b>22 13 16 00-0458 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)</b>		
22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.65 4.55 27.29	60.63
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.60 4.55 27.29	60.63
<b>22 13 16 00-0461 No Hub Cast Iron Closet Bends (22 13 16 00-0278)</b>		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	203.29 4.55 27.29	60.63
22 13 16 00-0463 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter.....	91.75	50.89
<i>For Below Ground Installation, Add</i>	3.81	
<i>For Work In Restricted Working Space, Add</i>	22.86	
22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter.....	96.55	50.89
<i>For Below Ground Installation, Add</i>	3.81	
<i>For Work In Restricted Working Space, Add</i>	22.86	
<b>22 13 16 00-0466 No Hub Couplings</b> <small>(22 13 16 00-0278)</small>		
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH). Labor costs are included in the installation costs for fittings.		
22 13 16 00-0467 EA 1-1/2" No Hub Coupling.....	8.54	
<i>For Medium Duty (Fernco MD-2000), Add</i>	1.11	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	2.31	
22 13 16 00-0468 EA 2" No Hub Coupling.....	8.54	
<i>For Medium Duty (Fernco MD-2000), Add</i>	1.11	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	2.31	
22 13 16 00-0469 EA 3" No Hub Coupling.....	10.14	
<i>For Medium Duty (Fernco MD-2000), Add</i>	1.32	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	2.74	
22 13 16 00-0470 EA 4" No Hub Coupling.....	12.04	
<i>For Medium Duty (Fernco MD-2000), Add</i>	1.57	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	3.25	
22 13 16 00-0471 EA 5" No Hub Coupling.....	27.83	
<i>For Medium Duty (Fernco MD-2000), Add</i>	3.62	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	7.51	
22 13 16 00-0472 EA 6" No Hub Coupling.....	30.59	
<i>For Medium Duty (Fernco MD-2000), Add</i>	3.98	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	8.26	
22 13 16 00-0473 EA 8" No Hub Coupling.....	57.62	
<i>For Medium Duty (Fernco MD-2000), Add</i>	7.49	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	15.56	
22 13 16 00-0474 EA 10" No Hub Coupling.....	79.38	
<i>For Medium Duty (Fernco MD-2000), Add</i>	10.32	
<i>For Heavy Duty (Fernco HD-4000), Add</i>	21.43	
22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling.....	10.14	
22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling.....	15.72	
22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling.....	21.94	
22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling.....	18.69	
<b>22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts</b> <small>(22 13 16 00-0278)</small>		
Note: For underground connections. Labor costs are included in the installation costs for fittings. See CSI section 22 13 16 00-0870 for additional FERNCO couplings.		
22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	34.37	
22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	35.48	
22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	37.25	
22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	43.46	
22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	82.05	
22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	112.65	
22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	197.36	
22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	301.58	
<b>22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place</b> <small>(22 13 16 00-0268)</small>		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub.....	13.78	
<i>For Work In Restricted Working Space, Add</i>	4.13	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub.....	16.85	
<i>For Work In Restricted Working Space, Add</i>	5.06	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub.....	18.38	
<i>For Work In Restricted Working Space, Add</i>	5.51	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub.....	22.97	
<i>For Work In Restricted Working Space, Add</i>	6.89	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub.....	27.56	
<i>For Work In Restricted Working Space, Add</i>	8.27	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub.....	36.75	
<i>For Work In Restricted Working Space, Add</i>	11.03	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub.....	42.88	
<i>For Work In Restricted Working Space, Add</i>	12.86	
<b>22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe</b> <small>(22 13 16)</small>		
See CSI section 22 11 16 00-0436 for copper and brass fittings.		
22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe.....	20.72	6.63
22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe.....	24.63	7.40
22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe.....	31.63	9.13
22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe.....	69.20	12.65
22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe.....	95.37	14.27
22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe.....	182.97	16.38
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe.....	261.74	25.39



	<b>Plumbing</b> <b>22</b>	
	<b>Plumbing Piping</b> <b>22 10</b>	<b>22</b>
	<b>Facility Sanitary Sewerage</b> <b>22 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <sup>(22 13 16)</sup> Note: Aboveground installation. See CSI section 33 31 11 00-0002 for underground installation.		
22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <sup>(22 13 16 00-0504)</sup>		
22 13 16 00-0506 Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <sup>(22 13 16 00-0505)</sup> Note: Includes all fittings. Fittings are assumed every 20'. Excludes excavation, backfill and compaction. Not for use where detail is available. Not for use where detail is available.		
22 13 16 00-0507 LF 1-1/2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly ..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	15.73	
For Work In Restricted Working Space, Add	3.30	
22 13 16 00-0508 LF 2" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	19.07	
For Work In Restricted Working Space, Add	4.02	
22 13 16 00-0509 LF 3" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	30.88	
For Work In Restricted Working Space, Add	5.69	
22 13 16 00-0510 LF 4" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	38.97	
For Work In Restricted Working Space, Add	6.26	
22 13 16 00-0511 LF 6" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	66.48	
For Work In Restricted Working Space, Add	8.06	
22 13 16 00-0512 LF 8" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	94.95	
For Work In Restricted Working Space, Add	10.77	
22 13 16 00-0513 LF 10" Underground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings and couplings. Fittings are assumed every 20'. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	137.20	
For Work In Restricted Working Space, Add	14.36	
22 13 16 00-0514 Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <sup>(22 13 16 00-0505)</sup> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0515 LF 1-1/2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	31.69	5.92
For Work In Restricted Working Space, Add	6.79	
22 13 16 00-0516 LF 2" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	35.62	7.05
For Work In Restricted Working Space, Add	7.55	
22 13 16 00-0517 LF 3" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	49.99	10.15
For Work In Restricted Working Space, Add	9.38	
22 13 16 00-0518 LF 4" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	61.41	11.00
For Work In Restricted Working Space, Add	10.24	
22 13 16 00-0519 LF 6" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	93.06	14.10
For Work In Restricted Working Space, Add	13.12	
22 13 16 00-0520 LF 8" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	121.64	18.75
For Work In Restricted Working Space, Add	15.03	
22 13 16 00-0521 LF 10" Aboveground Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	170.06	25.10
For Work In Restricted Working Space, Add	19.59	
22 13 16 00-0522 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <sup>(22 13 16 00-0504)</sup> Note: Excludes fittings or hangers.		
22 13 16 00-0523 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <sup>(22 13 16 00-0522)</sup> Note: Excludes fittings or hangers.		
22 13 16 00-0524 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... For Work In Restricted Working Space, Add	12.42 2.64	5.92
22 13 16 00-0525 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... For Work In Restricted Working Space, Add	15.29 3.17	7.05
22 13 16 00-0526 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... For Work In Restricted Working Space, Add	24.64 4.55	10.15
22 13 16 00-0527 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... For Work In Restricted Working Space, Add	29.83 4.94	11.00

**22 Plumbing****22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0528 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	42.56 5.61	12.49
22 13 16 00-0529 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	61.16 7.49	16.61
22 13 16 00-0530 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... <i>For Work In Restricted Working Space, Add</i>	88.74 9.99	22.23
<b>22 13 16 00-0531 Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891)</b> (22 13 16 00-0522) Note: Excludes fittings or hangers.		
22 13 16 00-0532 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	11.34 2.64	5.92
22 13 16 00-0533 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	14.01 3.17	7.05
22 13 16 00-0534 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	22.22 4.55	10.15
22 13 16 00-0535 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	26.62 4.94	11.00
22 13 16 00-0536 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	36.58 5.61	12.49
22 13 16 00-0537 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	52.76 7.49	16.61
22 13 16 00-0538 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe..... <i>For Work In Restricted Working Space, Add</i>	79.60 9.99	22.23
<b>22 13 16 00-0539 Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665)</b> (22 13 16 00-0504)		
<b>22 13 16 00-0540 Polyvinyl Chloride (PVC) DWV 1/4 Bends</b> (22 13 16 00-0539)		
22 13 16 00-0541 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	41.45 10.58	23.54
22 13 16 00-0542 EA 2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.98 13.53	30.03
22 13 16 00-0543 EA 3" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	85.08 18.19	40.32
22 13 16 00-0544 EA 4" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	122.37 21.15	46.95
22 13 16 00-0545 EA 6" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	407.32 27.49	61.05
22 13 16 00-0546 EA 8" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	664.10 37.01	82.20
22 13 16 00-0547 EA 10" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	877.40 49.34	109.54
<b>22 13 16 00-0548 Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends</b> (22 13 16 00-0539)		
22 13 16 00-0549 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	58.86 10.58	23.54
22 13 16 00-0550 EA 2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	63.00 13.53	30.03
22 13 16 00-0551 EA 3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	110.84 18.19	40.32
22 13 16 00-0552 EA 4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	169.60 21.15	46.95
22 13 16 00-0553 EA 6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	316.10 27.49	61.05
22 13 16 00-0554 EA 8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	544.21 37.01	82.20
22 13 16 00-0555 EA 10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	875.25 49.34	109.54
<b>22 13 16 00-0556 Polyvinyl Chloride (PVC) DWV 1/8 Bends</b> (22 13 16 00-0539)		
22 13 16 00-0557 EA 1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	42.88 10.58	23.54
22 13 16 00-0558 EA 2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	52.86 13.53	30.03
22 13 16 00-0559 EA 3" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	82.93 18.19	40.32
22 13 16 00-0560 EA 4" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	111.87 21.15	46.95
22 13 16 00-0561 EA 6" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	380.61 27.49	61.05
22 13 16 00-0562 EA 8" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	602.00 37.01	82.20
22 13 16 00-0563 EA 10" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	694.75 49.34	109.54
<b>22 13 16 00-0564 Polyvinyl Chloride (PVC) DWV Sanitary Tees</b> (22 13 16 00-0539)		
22 13 16 00-0565 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	63.95 15.86	35.25



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0566	EA		2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	83.54 20.30	45.11
22 13 16 00-0567	EA		3" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	133.15 27.28	60.63
22 13 16 00-0568	EA		4" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	186.24 31.72	70.49
22 13 16 00-0569	EA		6" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	605.70 41.24	91.50
22 13 16 00-0570	EA		8" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	790.37 55.51	123.21
<b>22 13 16 00-0571</b>			<b>Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees</b> (22 13 16 00-0539)		
22 13 16 00-0572	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	77.84 17.34	38.48
22 13 16 00-0573	EA		2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	90.41 18.82	41.73
22 13 16 00-0574	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	78.60 18.82	41.73
22 13 16 00-0575	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	110.56 23.47	52.16
22 13 16 00-0576	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	113.95 24.95	55.41
22 13 16 00-0577	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	131.52 26.43	58.65
22 13 16 00-0578	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	202.17 27.92	62.03
22 13 16 00-0579	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	249.16 30.24	67.10
22 13 16 00-0580	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	579.71 38.06	84.45
22 13 16 00-0581	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,734.88 47.58	105.60
22 13 16 00-0582	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,796.28 50.75	112.64
<b>22 13 16 00-0583</b>			<b>Polyvinyl Chloride (PVC) DWV Double Sanitary Tees</b> (22 13 16 00-0539)		
22 13 16 00-0584	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	103.88 21.15	46.95
22 13 16 00-0585	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	139.13 27.07	60.05
22 13 16 00-0586	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	258.39 36.37	80.78
22 13 16 00-0587	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	361.49 42.29	93.89
<b>22 13 16 00-0588</b>			<b>Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees</b> (22 13 16 00-0539)		
22 13 16 00-0589	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	124.56 24.11	53.58
22 13 16 00-0590	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	199.68 28.76	63.86
22 13 16 00-0591	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	228.75 31.72	70.49
22 13 16 00-0592	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	386.49 34.68	76.98
22 13 16 00-0593	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	409.45 39.34	87.26
<b>22 13 16 00-0594</b>			<b>Polyvinyl Chloride (PVC) DWV Reducers</b> (22 13 16 00-0539)		
22 13 16 00-0595	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	52.58 12.05	26.79
22 13 16 00-0596	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	87.54 14.38	31.86
22 13 16 00-0597	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	86.01 15.86	35.25
22 13 16 00-0598	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	123.39 17.34	38.48
22 13 16 00-0599	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	134.13 19.67	43.70
22 13 16 00-0600	EA		6" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	422.58 22.84	50.75
22 13 16 00-0601	EA		6" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	359.30 24.32	54.00
22 13 16 00-0602	EA		8" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	860.40 29.08	64.57
22 13 16 00-0603	EA		8" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	735.66 32.25	71.62
22 13 16 00-0604	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	983.03 38.42	85.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0605 EA 10" x 8" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	785.33 43.18	95.87
<b>22 13 16 00-0606 Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0539)</b>		
22 13 16 00-0607 EA 1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	74.57 15.86	35.25
22 13 16 00-0608 EA 2" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	97.26 20.30	45.11
22 13 16 00-0609 EA 3" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	238.22 27.28	60.63
22 13 16 00-0610 EA 4" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	456.49 31.72	70.49
22 13 16 00-0611 EA 6" Polyvinyl Chloride (PVC) DWV P-Traps ..... <i>For Work In Restricted Working Space, Add</i>	757.61 41.24	91.50
<b>22 13 16 00-0612 Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0539)</b>		
22 13 16 00-0613 EA 4" Polyvinyl Chloride (PVC) DWV Closet Flanges ..... <i>For Work In Restricted Working Space, Add</i>	112.11 21.15	46.95
22 13 16 00-0614 EA 4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges ..... <i>For Work In Restricted Working Space, Add</i>	94.65 19.67	43.70
<b>22 13 16 00-0615 Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0539)</b>		
22 13 16 00-0616 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	75.04 15.86	35.25
22 13 16 00-0617 EA 2" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	89.98 20.30	45.11
22 13 16 00-0618 EA 3" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	141.38 27.28	60.63
22 13 16 00-0619 EA 4" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	199.72 31.72	70.49
22 13 16 00-0620 EA 6" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	555.13 41.24	91.50
22 13 16 00-0621 EA 8" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	694.31 55.51	123.21
22 13 16 00-0622 EA 10" Polyvinyl Chloride (PVC) DWV Wyes ..... <i>For Work In Restricted Working Space, Add</i>	914.96 74.01	164.24
<b>22 13 16 00-0623 Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0539)</b>		
22 13 16 00-0624 EA 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	97.40 17.34	38.48
22 13 16 00-0625 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	101.98 18.82	41.73
22 13 16 00-0626 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	139.88 23.47	52.16
22 13 16 00-0627 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	122.18 24.95	55.41
22 13 16 00-0628 EA 4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	185.98 26.43	58.65
22 13 16 00-0629 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	168.54 27.92	62.03
22 13 16 00-0630 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	188.93 30.24	67.10
22 13 16 00-0631 EA 6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	500.85 36.59	81.20
22 13 16 00-0632 EA 6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	611.48 38.06	84.45
22 13 16 00-0633 EA 8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	595.08 47.58	105.60
22 13 16 00-0634 EA 8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	740.29 50.75	112.64
22 13 16 00-0635 EA 10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	691.49 59.92	132.95
22 13 16 00-0636 EA 10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	848.32 63.09	140.00
22 13 16 00-0637 EA 10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	980.96 67.84	150.56
<b>22 13 16 00-0638 Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0539)</b>		
22 13 16 00-0639 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	117.72 21.15	46.95
22 13 16 00-0640 EA 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	150.93 27.07	60.05
22 13 16 00-0641 EA 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	278.07 36.37	80.78
22 13 16 00-0642 EA 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	458.93 42.29	93.89
22 13 16 00-0643 EA 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	903.36 54.98	122.09





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0644	EA		8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,059.39 74.02	164.38
	22 13 16 00-0645	EA		10" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,623.91 98.68	219.08
<b>22 13 16 00-0646</b>	<b>Polyvinyl Chloride (PVC) DWV Reducing Double Wyes</b> <small>(22 13 16 00-0539)</small>					
	22 13 16 00-0647	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	135.82 24.11	53.58
	22 13 16 00-0648	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	233.48 28.76	63.86
	22 13 16 00-0649	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	222.50 31.72	70.49
	22 13 16 00-0650	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	306.20 34.68	76.98
	22 13 16 00-0651	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	382.88 39.34	87.26
	22 13 16 00-0652	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	575.63 48.64	107.99
	22 13 16 00-0653	EA		8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	675.33 58.15	129.14
	22 13 16 00-0654	EA		8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	848.01 64.50	143.23
	22 13 16 00-0655	EA		10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	898.80 70.49	156.49
	22 13 16 00-0656	EA		10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,149.21 76.83	170.59
	22 13 16 00-0657	EA		10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	1,381.80 86.35	191.73
<b>22 13 16 00-0658</b>	<b>Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0539)</small>					
	22 13 16 00-0659	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	88.88 15.86	35.25
	22 13 16 00-0660	EA		2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	111.57 20.30	45.11
	22 13 16 00-0661	EA		3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	206.25 27.28	60.63
	22 13 16 00-0662	EA		4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	345.22 31.72	70.49
<b>22 13 16 00-0663</b>	<b>Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0539)</small>					
	22 13 16 00-0664	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	153.62 18.82	41.73
	22 13 16 00-0665	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	236.12 23.47	52.16
	22 13 16 00-0666	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	181.86 24.95	55.41
	22 13 16 00-0667	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	312.57 27.92	62.03
	22 13 16 00-0668	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	338.57 30.24	67.10
<b>22 13 16 00-0669</b>	<b>Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0539)</small>					
	22 13 16 00-0670	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	128.45 21.15	46.95
	22 13 16 00-0671	EA		2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	152.13 27.07	60.05
	22 13 16 00-0672	EA		3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	228.81 36.37	80.78
	22 13 16 00-0673	EA		4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	707.71 42.29	93.89
	22 13 16 00-0674	EA		6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	2,240.81 54.98	122.09
<b>22 13 16 00-0675</b>	<b>Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0539)</small>					
	22 13 16 00-0676	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	270.01 24.11	53.58
	22 13 16 00-0677	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	427.05 31.72	70.49
	22 13 16 00-0678	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	714.43 34.68	76.98
	22 13 16 00-0679	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	655.19 39.34	87.26
	22 13 16 00-0680	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	1,506.31 48.64	107.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 16 00-0681 Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug</b> <small>(22 13 16 00-0539)</small>		
22 13 16 00-0682 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	173.25 20.30	45.11
22 13 16 00-0683 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	292.61 27.28	60.63
22 13 16 00-0684 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	456.55 31.72	70.49
22 13 16 00-0685 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	1,156.80 41.24	91.50
22 13 16 00-0686 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	1,454.20 55.51	123.21
22 13 16 00-0687 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug..... <i>For Work In Restricted Working Space, Add</i>	1,930.13 74.01	164.24
<b>22 13 16 00-0688 Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug</b> <small>(22 13 16 00-0539)</small>		
22 13 16 00-0689 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	53.50 10.58	23.54
22 13 16 00-0690 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	74.57 13.53	30.03
22 13 16 00-0691 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	105.95 18.19	40.32
22 13 16 00-0692 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	176.99 21.15	46.95
22 13 16 00-0693 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	383.95 27.49	61.05
22 13 16 00-0694 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	836.13 37.01	82.20
22 13 16 00-0695 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	1,520.32 49.31	109.54
<b>22 13 16 00-0696 Polyvinyl Chloride (PVC) Couplings</b> <small>(22 13 16 00-0539)</small>		
22 13 16 00-0697 EA 1-1/2" Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	40.66 10.58	23.54
22 13 16 00-0698 EA 2" Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	51.19 13.53	30.03
22 13 16 00-0699 EA 3" Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	76.18 18.19	40.32
22 13 16 00-0700 EA 4" Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	96.04 21.15	46.95
22 13 16 00-0701 EA 6" Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	232.63 27.49	61.05
22 13 16 00-0702 EA 8" Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	530.63 37.01	82.20
22 13 16 00-0703 EA 10" Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i>	795.61 49.34	109.54
<b>22 13 16 00-0704 Polyvinyl Chloride (PVC) Male Adapters</b> <small>(22 13 16 00-0539)</small>		
22 13 16 00-0705 EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	23.09 5.29	11.70
22 13 16 00-0706 EA 2" Polyvinyl Chloride (PVC) Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	36.02 6.77	15.08
22 13 16 00-0707 EA 3" Polyvinyl Chloride (PVC) Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	67.65 9.09	20.16
22 13 16 00-0708 EA 4" Polyvinyl Chloride (PVC) Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	120.82 10.58	23.54
<b>22 13 16 00-0709 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe</b> <small>(22 13 16 00-0504)</small>		
Note: In place piping.		
22 13 16 00-0710 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	10.33	
22 13 16 00-0711 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	11.37	
22 13 16 00-0712 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	14.48	
22 13 16 00-0713 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	19.52	
22 13 16 00-0714 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	27.90	
22 13 16 00-0715 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	37.21	
22 13 16 00-0716 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	45.49	
<b>22 13 16 00-0717 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings</b> <small>(22 13 16)</small>		
Note: Aboveground installation.		
<b>22 13 16 00-0718 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies</b> <small>(22 13 16 00-0717)</small>		
Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0719 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	34.60 8.11	5.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0720 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	38.45  8.98	7.05
22 13 16 00-0721 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	52.62  11.16	10.15
22 13 16 00-0722 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	60.65  12.39	11.00
22 13 16 00-0723 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	101.57  16.48	14.10
<b>22 13 16 00-0724 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628)</b> <small>(22 13 16 00-0717)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0725 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	12.00 2.64	5.92
22 13 16 00-0726 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	14.85 3.17	7.05
22 13 16 00-0727 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	24.02 4.55	10.15
22 13 16 00-0728 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	29.11 4.94	11.00
22 13 16 00-0729 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe ..... <i>For Work In Restricted Working Space, Add</i>	44.52 5.61	12.49
<b>22 13 16 00-0730 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661)</b> <small>(22 13 16 00-0717)</small>		
<b>22 13 16 00-0731 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0732 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	48.82 10.58	23.54
22 13 16 00-0733 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	64.46 13.53	30.03
22 13 16 00-0734 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	120.33 18.19	40.32
22 13 16 00-0735 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	187.47 21.15	46.95
22 13 16 00-0736 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	528.26 27.49	61.05
<b>22 13 16 00-0737 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0738 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	67.57 10.58	23.54
22 13 16 00-0739 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	82.79 13.53	30.03
22 13 16 00-0740 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	165.85 18.19	40.32
22 13 16 00-0741 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends ..... <i>For Work In Restricted Working Space, Add</i>	278.03 21.15	46.95
<b>22 13 16 00-0742 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0743 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	51.35 10.58	23.54
22 13 16 00-0744 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	62.68 13.53	30.03
22 13 16 00-0745 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	111.00 18.19	40.32
22 13 16 00-0746 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	170.24 21.15	46.95
22 13 16 00-0747 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	546.43 27.49	61.05
<b>22 13 16 00-0748 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0749 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	75.96 15.86	35.25
22 13 16 00-0750 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	102.40 20.30	45.11
22 13 16 00-0751 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	179.40 27.28	60.63
22 13 16 00-0752 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	275.72 31.72	70.49



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0753	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,058.82 41.24	91.50
<b>22 13 16 00-0754</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees</b> (22 13 16 00-0730)		
22 13 16 00-0755	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	94.63 17.34	38.48
22 13 16 00-0756	EA		2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	114.46 18.82	41.73
22 13 16 00-0757	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	96.02 18.82	41.73
22 13 16 00-0758	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	145.81 23.47	52.16
22 13 16 00-0759	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	151.37 24.95	55.41
22 13 16 00-0760	EA		4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	333.10 26.43	58.65
22 13 16 00-0761	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	321.74 27.92	62.03
22 13 16 00-0762	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	368.98 30.24	67.10
22 13 16 00-0763	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,157.03 38.06	84.45
<b>22 13 16 00-0764</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees</b> (22 13 16 00-0730)		
22 13 16 00-0765	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	140.66 21.15	46.95
22 13 16 00-0766	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	192.60 27.07	60.05
22 13 16 00-0767	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	408.82 36.37	80.78
22 13 16 00-0768	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	601.89 42.29	93.89
<b>22 13 16 00-0769</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees</b> (22 13 16 00-0730)		
22 13 16 00-0770	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	159.95 24.11	53.58
22 13 16 00-0771	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	242.44 28.76	63.86
22 13 16 00-0772	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	279.16 31.72	70.49
22 13 16 00-0773	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	484.38 30.73	68.20
22 13 16 00-0774	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	508.66 34.85	77.32
<b>22 13 16 00-0775</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Wyes</b> (22 13 16 00-0730)		
22 13 16 00-0776	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	99.37 15.86	35.25
22 13 16 00-0777	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	115.43 20.30	45.11
22 13 16 00-0778	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	196.60 27.28	60.63
22 13 16 00-0779	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	302.62 31.72	70.49
22 13 16 00-0780	EA		6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	859.88 41.24	91.50
<b>22 13 16 00-0781</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes</b> (22 13 16 00-0730)		
22 13 16 00-0782	EA		2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	140.77 17.34	38.48
22 13 16 00-0783	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	144.87 18.82	41.73
22 13 16 00-0784	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	165.31 24.95	55.41
22 13 16 00-0785	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	251.24 27.92	62.03
22 13 16 00-0786	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	285.61 30.24	67.10
22 13 16 00-0787	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	723.76 38.06	84.45
<b>22 13 16 00-0788</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes</b> (22 13 16 00-0730)		
22 13 16 00-0789	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	169.40 21.15	46.95



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0790	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	217.45 27.07	60.05
22 13 16 00-0791	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	450.14 36.37	80.78
22 13 16 00-0792	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	807.23 42.29	93.89
<b>22 13 16 00-0793</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0794	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	196.55 24.11	53.58
22 13 16 00-0795	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	327.86 28.76	63.86
22 13 16 00-0796	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	349.92 31.72	70.49
22 13 16 00-0797	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	515.06 34.68	76.98
22 13 16 00-0798	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	658.76 39.34	87.26
<b>22 13 16 00-0799</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0800	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	127.15 15.86	35.25
22 13 16 00-0801	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	164.22 20.30	45.11
22 13 16 00-0802	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	249.99 27.28	60.63
22 13 16 00-0803	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	405.94 28.10	62.46
<b>22 13 16 00-0804</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0805	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	140.92 18.82	41.73
22 13 16 00-0806	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	263.36 23.47	52.16
22 13 16 00-0807	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	198.87 24.95	55.41
22 13 16 00-0808	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	350.74 27.92	62.03
22 13 16 00-0809	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	379.83 30.24	67.10
<b>22 13 16 00-0810</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0811	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	265.00 27.07	60.05
22 13 16 00-0812	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	524.34 36.37	80.78
<b>22 13 16 00-0813</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0814	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	221.01 24.11	53.58
22 13 16 00-0815	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	501.96 31.72	70.49
<b>22 13 16 00-0816</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0817	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	140.23 15.86	35.25
22 13 16 00-0818	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	177.30 20.30	45.11
22 13 16 00-0819	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	279.24 27.28	60.63
22 13 16 00-0820	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	457.73 31.72	70.49
<b>22 13 16 00-0821</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0822	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	65.20 10.58	23.54
22 13 16 00-0823	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug ..... <i>For Work In Restricted Working Space, Add</i>	93.45 13.53	30.03



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22 13 16 00-0824 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	134.92 18.19	40.32
22 13 16 00-0825 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	245.37 21.15	46.95
22 13 16 00-0826 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	571.76 27.49	61.05
<b>22 13 16 00-0827 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0828 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	45.57 10.58	23.54
22 13 16 00-0829 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	56.00 13.53	30.03
22 13 16 00-0830 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	90.24 18.19	40.32
22 13 16 00-0831 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	119.31 21.15	46.95
22 13 16 00-0832 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	332.94 27.49	61.05
<b>22 13 16 00-0833 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0834 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	66.35 12.05	26.79
22 13 16 00-0835 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	130.91 14.38	31.86
22 13 16 00-0836 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	122.44 15.86	35.25
22 13 16 00-0837 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	195.03 17.34	38.48
22 13 16 00-0838 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	209.13 19.67	43.70
<b>22 13 16 00-0839 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0840 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	103.60 15.86	35.25
22 13 16 00-0841 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	149.81 20.30	45.11
22 13 16 00-0842 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	467.09 27.28	60.63
22 13 16 00-0843 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	876.40 31.72	70.49
<b>22 13 16 00-0844 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0845 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	141.33 21.15	46.95
22 13 16 00-0846 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	131.99 19.67	43.70
<b>22 13 16 00-0847 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0848 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	30.79 5.29	11.70
22 13 16 00-0849 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	45.91 6.77	15.08
22 13 16 00-0850 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	98.33 9.09	20.16
22 13 16 00-0851 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	185.74 10.58	23.54
<b>22 13 16 00-0852 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0853 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	51.07 12.05	26.79
22 13 16 00-0854 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	106.66 14.38	31.86
22 13 16 00-0855 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	90.17 15.86	35.25
22 13 16 00-0856 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	193.14 17.34	38.48
22 13 16 00-0857 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	143.98 19.67	43.70
22 13 16 00-0858 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	379.37 21.55	47.84
<b>22 13 16 00-0859 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings</b> <small>(22 13 16 00-0730)</small>		
22 13 16 00-0860 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	124.70 10.58	23.54



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22 13 16 00-0861	EA		2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling ..... <i>For Work In Restricted Working Space, Add</i>	140.52 13.53	30.03
22 13 16 00-0862	EA		3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling ..... <i>For Work In Restricted Working Space, Add</i>	162.01 18.19	40.32
22 13 16 00-0863	EA		4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling ..... <i>For Work In Restricted Working Space, Add</i>	177.83 21.15	46.95
<b>22 13 16 00-0864</b>			<b>Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe</b> <small>(22 13 16 00-0717)</small> Note: In place piping.		
22 13 16 00-0865	EA		1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	10.33	
22 13 16 00-0866	EA		2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	11.37	
22 13 16 00-0867	EA		3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	14.48	
22 13 16 00-0868	EA		4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	19.52	
22 13 16 00-0869	EA		6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	27.90	
<b>22 13 16 00-0870</b>			<b>Elastomeric Flexible Pipe Couplings</b> <small>(22 13 16)</small>		
<b>22 13 16 00-0871</b>			<b>Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings</b> <small>(22 13 16 00-0870)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0872	EA		1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125) ..... <i>For Work In Restricted Working Space, Add</i>	16.70 3.68	6.12
22 13 16 00-0873	EA		1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150) ..... <i>For Work In Restricted Working Space, Add</i>	17.95 3.91	6.50
22 13 16 00-0874	EA		2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22) ..... <i>For Work In Restricted Working Space, Add</i>	18.90 4.13	6.90
22 13 16 00-0875	EA		3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33) ..... <i>For Work In Restricted Working Space, Add</i>	21.47 4.37	7.28
22 13 16 00-0876	EA		4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44) ..... <i>For Work In Restricted Working Space, Add</i>	23.97 4.59	7.66
22 13 16 00-0877	EA		5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55) ..... <i>For Work In Restricted Working Space, Add</i>	29.65 4.82	8.04
22 13 16 00-0878	EA		6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66) ..... <i>For Work In Restricted Working Space, Add</i>	35.37 5.06	8.42
22 13 16 00-0879	EA		8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88) ..... <i>For Work In Restricted Working Space, Add</i>	46.86 5.51	9.19
22 13 16 00-0880	EA		10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010) ..... <i>For Work In Restricted Working Space, Add</i>	61.03 6.43	10.72
<b>22 13 16 00-0881</b>			<b>Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings</b> <small>(22 13 16 00-0870)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0882	EA		1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125) ..... <i>For Work In Restricted Working Space, Add</i>	17.78 3.91	6.50
22 13 16 00-0883	EA		2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215) ..... <i>For Work In Restricted Working Space, Add</i>	19.19 4.13	6.90
22 13 16 00-0884	EA		3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315) ..... <i>For Work In Restricted Working Space, Add</i>	22.89 4.37	7.28
22 13 16 00-0885	EA		3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32) ..... <i>For Work In Restricted Working Space, Add</i>	20.94 4.37	7.28
22 13 16 00-0886	EA		4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415) ..... <i>For Work In Restricted Working Space, Add</i>	27.48 4.59	7.66
22 13 16 00-0887	EA		4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42) ..... <i>For Work In Restricted Working Space, Add</i>	26.49 4.59	7.66
22 13 16 00-0888	EA		4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43) ..... <i>For Work In Restricted Working Space, Add</i>	24.63 4.59	7.66
22 13 16 00-0889	EA		5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53) ..... <i>For Work In Restricted Working Space, Add</i>	34.00 4.82	8.04
22 13 16 00-0890	EA		5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54) ..... <i>For Work In Restricted Working Space, Add</i>	31.16 4.82	8.04
22 13 16 00-0891	EA		6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63) ..... <i>For Work In Restricted Working Space, Add</i>	41.22 5.06	8.42
22 13 16 00-0892	EA		6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64) ..... <i>For Work In Restricted Working Space, Add</i>	36.98 5.06	8.42
22 13 16 00-0893	EA		6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65) ..... <i>For Work In Restricted Working Space, Add</i>	38.16 5.06	8.42
22 13 16 00-0894	EA		8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84) ..... <i>For Work In Restricted Working Space, Add</i>	74.22 9.19	15.31
22 13 16 00-0895	EA		8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86) ..... <i>For Work In Restricted Working Space, Add</i>	62.47 9.19	15.31
22 13 16 00-0896	EA		10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8) ..... <i>For Work In Restricted Working Space, Add</i>	77.82 10.34	17.23
<b>22 13 16 00-0897</b>			<b>Elastomeric Flexible Pipe Caps (Fernco QC)</b> <small>(22 13 16)</small> Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0898	EA		1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	65.98	41.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0899 EA 2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	70.61	43.95
22 13 16 00-0900 EA 3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	81.57	50.38
22 13 16 00-0901 EA 4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	107.72	66.62
22 13 16 00-0902 EA 5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	129.00	79.63
22 13 16 00-0903 EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	149.19	91.88
22 13 16 00-0904 EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	197.56	116.38
22 13 16 00-0905 EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	238.23	130.16
22 13 16 00-0906 EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	293.83	144.71
<b>22 13 16 00-0907 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)</b>		
22 13 16 00-0908 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	113.37	31.72
22 13 16 00-0909 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	120.42	35.25
22 13 16 00-0910 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	177.23	45.81
22 13 16 00-0911 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	207.38	52.86
22 13 16 00-0912 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	241.07	59.91
22 13 16 00-0913 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess.....	390.69	66.96
<b>22 13 16 00-0914 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)</b>		
22 13 16 00-0915 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	218.95	31.72
22 13 16 00-0916 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	226.00	35.25
22 13 16 00-0917 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	270.40	45.81
22 13 16 00-0918 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	336.32	52.86
22 13 16 00-0919 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	454.09	59.91
22 13 16 00-0920 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	468.19	66.96
<b>22 13 16 00-0921 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16)</b>		
Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0922 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	404.82	31.72
22 13 16 00-0923 EA 2" Cast Iron Vandal Proof Hooded Vent Cap.....	411.87	35.25
22 13 16 00-0924 EA 3" Cast Iron Vandal Proof Hooded Vent Cap.....	475.69	45.81
22 13 16 00-0925 EA 4" Cast Iron Vandal Proof Hooded Vent Cap.....	536.02	52.86
22 13 16 00-0926 EA 5" Cast Iron Vandal Proof Hooded Vent Cap.....	624.80	59.91
22 13 16 00-0927 EA 6" Cast Iron Vandal Proof Hooded Vent Cap.....	683.35	66.96
<b>22 13 19 Sanitary Waste Piping Specialties (22 13)</b>		
<b>22 13 19 13 Sanitary Drains (22 13 19)</b>		
<b>22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)</b>		
22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet.....	927.65	151.55
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet.....	1,020.15	169.88
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet.....	1,000.54	187.93
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet.....	1,039.25	207.38
For Galvanized Cast Iron Parts, Add	105.00	
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0006 EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet.....	935.53	169.88
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet.....	971.76	187.93
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	





<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0008	EA		Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet .....	1,010.47	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0009	EA		Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet .....	1,528.47	169.88
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0010	EA		Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet .....	1,564.70	187.93
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0011	EA		Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet .....	1,603.41	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0012	EA		Bronze Top, 9" Round Top Floor Drain With 2" Outlet .....	1,442.12	169.88
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0013	EA		Bronze Top, 9" Round Top Floor Drain With 3" Outlet .....	1,478.15	187.93
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0014	EA		Bronze Top, 9" Round Top Floor Drain With 4" Outlet .....	1,517.06	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0015	EA		Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet .....	1,580.12	169.74
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0016	EA		Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet .....	1,616.31	187.93
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0017	EA		Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet .....	1,655.22	207.38
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0018	EA		Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet .....	2,466.65	169.74
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0019	EA		Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet .....	2,502.84	187.93
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0020	EA		Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet .....	2,541.75	207.38
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0021	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	2,348.64	169.74
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0022	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	2,384.83	187.93
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0023	EA		Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	2,423.74	207.38
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0024			<b>Square Or Rectangular Top Drains</b> <small>(22 13 19 13)</small>		
22 13 19 13-0025	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,099.43	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,136.03 105.00 22.50 11.00	188.07
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,174.53 105.00 22.50 11.00	207.38
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,185.78 105.00 22.50 11.00	169.74
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,222.38 105.00 22.50 11.00	188.07
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,260.88 105.00 22.50 11.00	207.38
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,565.73 105.00 22.50 11.00	169.74
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,602.33 105.00 22.50 11.00	188.07
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,640.83 105.00 22.50 11.00	207.38
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,036.11 105.00 22.50 11.00	169.74
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,072.71 105.00 22.50 11.00	188.07
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,111.21 105.00 22.50 11.00	207.38
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,145.49 105.00 22.50 11.00	169.74
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,182.09 105.00 22.50 11.00	188.07
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,220.59 105.00 22.50 11.00	207.38
22 13 19 13-0040	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,453.47 105.00 22.50 11.00	169.74
22 13 19 13-0041	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,490.07 105.00 22.50 11.00	188.07
22 13 19 13-0042	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	1,528.57 105.00 22.50 11.00	207.38
22 13 19 13-0043	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,712.16 48.50 76.00 318.00	188.07
22 13 19 13-0044	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,750.66 48.50 76.00 318.00	207.38
22 13 19 13-0045	EA		12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,650.50 48.50 76.00 318.00	188.07
22 13 19 13-0046	EA		12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,689.00 48.50 76.00 318.00	207.38

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0047 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top.....	4,538.24	188.07
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
For Galvanized Cast Iron Parts, Add	318.00	
22 13 19 13-0048 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top.....	4,576.74	207.38
For Chained Grate, Add	48.50	
For No-Hub Side Outlet, Add	76.00	
For Galvanized Cast Iron Parts, Add	318.00	
22 13 19 13-0049 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	1,588.75	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0050 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	1,625.35	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0051 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	1,663.85	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0052 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,034.90	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0053 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,071.50	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0054 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,110.00	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0055 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,138.52	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0056 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,175.12	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0057 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	2,213.62	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0058 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	2,941.58	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0059 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	2,978.18	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0060 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	3,016.68	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0061 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,496.65	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0062 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,533.25	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0063 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,571.75	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0064 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,876.59	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0065 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top.....	1,913.19	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0066 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top.....	1,951.69	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0067 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top.....	1,980.21	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0068 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top.....	2,016.81	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0069 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top.....	2,055.31	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0070 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top.....	2,633.59	169.74
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0071 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top.....	2,670.19	188.07
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0072 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top.....	2,708.69	207.38
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
<b>22 13 19 13-0073 Funnel Type Floor Drains (22 13 19 13)</b>		
22 13 19 13-0074 EA 7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top.....	1,497.70	151.55
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0075 EA 7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top.....	1,534.07	169.74
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0076 EA 7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top.....	1,570.26	187.93
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0077 EA 7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top.....	1,609.17	207.38
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0078 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top.....	2,181.69	169.74
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0079 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top.....	2,217.88	187.93
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0080 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top.....	2,256.79	207.38
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0081 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top.....	2,069.44	169.74
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0082 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top.....	2,105.63	187.93
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0083 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top.....	2,144.54	207.38
For Galvanized Cast Iron Parts, Add	105.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
<b>22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet (22 13 19 13)</b>		
22 13 19 13-0085 EA 12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,143.98	151.55
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0086 EA 12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,180.48	169.74
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0087 EA 12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,216.67	187.93
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0088 EA 12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,255.58	207.38
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0089 EA 12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....	3,295.71	227.40
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Galvanized Cast Iron Parts, Add	247.00	
22 13 19 13-0090 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,399.24	169.74
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0091 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,435.84	188.07
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0092 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,474.34	207.38
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0093 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,514.47	227.40
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0094 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,101.10	169.74
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0095 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,137.70	188.07
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0096 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,176.20	207.38
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0097 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,216.33	227.40
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0098 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,174.72	169.74
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0099 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,211.32	188.07
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0100 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,249.82	207.38
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	
22 13 19 13-0101 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	3,289.95	227.40
For Vandal Proof Screws, Add	29.50	
For Primer Tap, Add	31.00	
For Aluminum Bucket, Add	77.50	
For Galvanized Cast Iron Parts, Add	273.75	

22 13 19 13-0102 Other Drains (22 13 19 13)

22 13 19 13-0103 Shower Drains (22 13 19 13-0102)

22 13 19 13-0104 EA 4-1/4" Stainless Steel Shower Drain Strainer.....	56.76	15.31
Note: Includes two 2-5/8" screws.		
22 13 19 13-0105 EA 4-1/4" Brass Shower Drain Strainer.....	62.67	15.31
Note: Includes two 2-5/8" screws.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
	22 13 19	13-0106	EA	4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe..... Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.	132.33	30.63	
	22 13 19	13-0107	EA	4" Chrome Finish, Threaded Brass Shower Drain And Gasket ..... Note: For 2" pipe. Kohler K-9132.	166.29	30.63	
<b>22 13 19</b>	<b>13-0108</b>	<b>Acid Resistant Floor Drains</b> <small>(22 13 19 13-0102)</small>					
	22 13 19	13-0109	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top ..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i>	1,509.08 87.50 33.50 30.50	151.55	
	22 13 19	13-0110	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top ..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i>	1,545.58 87.50 33.50 30.50	169.74	
	22 13 19	13-0111	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top ..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i>	1,581.77 87.50 33.50 30.50	187.93	
<b>22 13 19</b>	<b>13-0112</b>	<b>Rotary And Lever Drains</b> <small>(22 13 19 13-0102)</small>					
	22 13 19	13-0113	EA	Lever Drain, 1-1/2" Drain, 3" Sink Opening.....	314.47	102.21	
	22 13 19	13-0114	EA	Lever Drain, 2" Drain, 3" Sink Opening.....	335.61	112.79	
	22 13 19	13-0115	EA	Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening .....	314.47	102.21	
	22 13 19	13-0116	EA	Lever Drain, 2" Drain, 3-1/2" Sink Opening .....	335.61	112.79	
	22 13 19	13-0117	EA	Twist Drain, 1-1/2" Drain, 3" Sink Opening .....	314.47	102.21	
	22 13 19	13-0118	EA	Twist Drain, 2" Drain, 3" Sink Opening .....	335.61	112.79	
	22 13 19	13-0119	EA	Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening .....	314.47	102.21	
	22 13 19	13-0120	EA	Twist Drain, 2" Drain, 3-1/2" Sink Opening .....	335.61	112.79	
	22 13 19	13-0121	EA	Rotary Twist Drain, 1-1/2" To 2" Drain, 3-1/2" Sink Opening (Fisher 16100).....	420.51	112.79	
<b>22 13 19</b>	<b>13-0122</b>	<b>Floor Receptor</b> <small>(22 13 19 13)</small>					
<b>22 13 19</b>	<b>13-0123</b>	<b>9" Diameter Round Shallow Receptor</b> <small>(22 13 19 13-0122)</small> Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.					
	22 13 19	13-0124	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection ..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,848.03 58.50 97.00 38.00 36.00 33.50 47.00 62.50	169.88	
	22 13 19	13-0125	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection ..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,884.81 58.50 97.00 38.00 36.00 33.50 47.00 62.50	188.21	
	22 13 19	13-0126	EA	9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection ..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,922.91 58.50 97.00 38.00 36.00 33.50 47.00 62.50	207.38	
<b>22 13 19</b>	<b>13-0127</b>	<b>Square Top Floor Receptors</b> <small>(22 13 19 13-0122)</small> Note: With acid resistant coating.					
	22 13 19	13-0128	EA	8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top ..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	2,168.35 37.50 69.00 39.50 36.00 15.50 88.00 97.00	151.55	
	22 13 19	13-0129	EA	8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top ..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	2,204.88 37.50 69.00 39.50 36.00 15.50 88.00 97.00	169.88	

**22 Plumbing****22 10 Plumbing Piping****22 13 Facility Sanitary Sewerage**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0130 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	2,240.91	187.93
<i>For Flange With Seepage Holes, Add</i>	37.50	
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
<i>For Trap Primer Connection, Add</i>	39.50	
<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
<i>For Vandal Proof Secured Grate, Add</i>	15.50	
<i>For White Acid Resistant Bucket, Add</i>	88.00	
<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
22 13 19 13-0131 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	2,279.82	207.38
<i>For Flange With Seepage Holes, Add</i>	37.50	
<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	69.00	
<i>For Trap Primer Connection, Add</i>	39.50	
<i>For Full Grate With 2" Square Center Opening, Add</i>	36.00	
<i>For Vandal Proof Secured Grate, Add</i>	15.50	
<i>For White Acid Resistant Bucket, Add</i>	88.00	
<i>For Stainless Steel Liner For Bucket, Add</i>	97.00	
<b>22 13 19 13-0132 Floor Drain Accessories (22 13 19 13)</b>		
22 13 19 13-0133 EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....	119.10	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0134 EA 2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22) .....	98.14	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0135 EA 3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33) .....	106.52	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	127.49	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	114.91	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02) .....	161.26	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03) .....	178.13	17.62
Note: Prevents emission of sewer gases.		
22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04) .....	220.00	17.62
Note: Prevents emission of sewer gases.		
<b>22 13 19 26 Grease Removal Devices (22 13 19)</b>		
22 13 19 26-0001 Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002 Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003 EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	1,361.92	105.74
Note: Josam 60102H.		
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,369.87	
22 13 19 26-0004 EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	1,586.22	237.91
Note: Josam 60103H.		
<i>For Flange And Clamp Device, Add</i>	418.77	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,451.35	
22 13 19 26-0005 EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	2,231.34	264.34
Note: Josam 60104H.		
<i>For Flange And Clamp Device, Add</i>	436.39	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,586.26	
22 13 19 26-0006 EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	2,687.42	290.77
Note: Josam 60105H.		
<i>For Flange And Clamp Device, Add</i>	454.01	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,715.74	
22 13 19 26-0007 EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	3,006.59	317.21
Note: Josam 60106H.		
<i>For Flange And Clamp Device, Add</i>	502.03	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,790.49	
22 13 19 26-0008 EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	3,686.97	370.07
Note: Josam 60107H.		
<i>For Flange And Clamp Device, Add</i>	548.48	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,975.84	
22 13 19 26-0009 EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	4,793.23	422.94
Note: Josam 60108H.		
<i>For Flange And Clamp Device, Add</i>	624.69	
<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	2,114.15	
22 13 19 26-0010 EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	9,326.26	475.81
Note: Josam 60109H.		
<i>For Flange And Clamp Device, Add</i>	861.21	
22 13 19 26-0011 EA 100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	10,524.27	559.45
Note: Josam 60110H.		
<i>For Flange And Clamp Device, Add</i>	980.98	
22 13 19 26-0012 EA 150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	13,028.17	895.13
Note: Josam 60213A.		
<i>For Flange And Clamp Device, Add</i>	1,364.76	
22 13 19 26-0013 EA 200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	18,660.44	1,118.92
Note: Josam 60214A.		
<i>For Flange And Clamp Device, Add</i>	1,643.22	





<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0014	EA		250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60215A.	21,775.71	1,342.70
			<i>For Flange And Clamp Device, Add</i>	2,105.38	
22 13 19 26-0015	EA		350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60216A.	28,256.87	1,566.48
			<i>For Flange And Clamp Device, Add</i>	2,492.32	
22 13 19 26-0016	EA		500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60217A.	36,507.56	1,790.27
			<i>For Flange And Clamp Device, Add</i>	2,914.79	
<b>22 13 19 26-0017</b>			<b>Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26-0001)</small> Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA		20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60115A.	3,834.74	290.77
22 13 19 26-0019	EA		35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60117A.	4,932.07	370.07
22 13 19 26-0020	EA		50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	8,084.54	422.94
<b>22 13 19 26-0021</b>			<b>Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26)</small> Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
<b>22 13 19 26-0022</b>			<b>Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26-0021)</small> Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA		7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60102-SA.	3,358.15	105.74
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,369.87	
22 13 19 26-0024	EA		10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60103-SA.	3,946.05	237.91
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,451.35	
22 13 19 26-0025	EA		15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60104-SA.	4,218.87	264.34
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,586.26	
22 13 19 26-0026	EA		20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60105-SA.	5,139.96	290.77
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,715.74	
22 13 19 26-0027	EA		25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60106-SA.	6,187.08	317.21
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,790.49	
22 13 19 26-0028	EA		35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60107-SA.	6,408.96	370.07
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	1,975.84	
22 13 19 26-0029	EA		50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60108-SA.	7,316.04	422.94
			<i>For Steel Enclosure Cabinet With Non-Skid Cover, Add</i>	2,114.15	
<b>22 13 19 26-0030</b>			<b>Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> <small>(22 13 19 26-0021)</small> Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031	EA		35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60115A-SA.	8,576.13	370.07
<b>22 13 19 26-0032</b>			<b>Automatic Cleaning Stainless Steel Grease Interceptor</b> <small>(22 13 19 26)</small>		
22 13 19 26-0033	EA		20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor ..... Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	7,366.03	290.77
22 13 19 26-0034	EA		25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor ..... Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	8,550.71	317.21
22 13 19 26-0035	EA		35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35) .....	7,356.57	370.07
<b>22 13 19 26-0036</b>			<b>Precast Concrete Grease Interceptor</b> <small>(22 13 19 26)</small> Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037	EA		1,000 Gallon Pre-Cast Grease Interceptor .....	7,115.40	487.92
22 13 19 26-0038	EA		1,250 Gallon Pre-Cast Grease Interceptor .....	8,146.50	487.92
22 13 19 26-0039	EA		1,500 Gallon Pre-Cast Grease Interceptor .....	9,245.83	557.80
22 13 19 26-0040	EA		2,000 Gallon Pre-Cast Grease Interceptor .....	10,509.47	787.76
22 13 19 26-0041	EA		2,500 Gallon Pre-Cast Grease Interceptor .....	11,819.40	1,059.87
22 13 19 26-0042	EA		4,000 Gallon Pre-Cast Grease Interceptor .....	17,743.15	1,394.43
22 13 19 26-0043	EA		5,000 Gallon Pre-Cast Grease Interceptor .....	22,740.29	2,286.65
<b>22 13 19 26-0044</b>			<b>Coated Steel Manual Oil Interceptor</b> <small>(22 13 19 26)</small> Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045	EA		10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off .....	10,284.02	402.74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0046 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	13,961.02	478.54
22 13 19 26-0047 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	16,892.62	588.79
22 13 19 26-0048 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	18,345.33	637.79
22 13 19 26-0049 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	22,144.25	695.99
22 13 19 26-0050 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	29,443.70	765.66
22 13 19 26-0051 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	50,104.34	881.13
22 13 19 26-0052 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	54,580.34	1,084.14
22 13 19 26-0053 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	67,271.53	1,175.08
22 13 19 26-0054 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	94,544.09	1,409.81
22 13 19 26-0055 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	109,246.79	1,515.54
22 13 19 26-0056 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	137,833.84	1,807.37
22 13 19 26-0057 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	167,602.53	1,481.00
22 13 19 26-0058 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	198,530.36	1,762.26
<b>22 13 19 33 Backwater Valves (22 13 19)</b>		
<b>22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)</b>		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve .....	435.69	40.46
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve .....	451.19	50.89
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve .....	648.15	67.68
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve .....	1,693.44	87.32
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve .....	2,073.91	114.92
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve .....	5,928.08	141.78
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve .....	6,724.31	183.88
<b>22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)</b>		
Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	1,091.14	96.47
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	1,644.61	117.02
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	2,038.37	150.85
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	2,810.65	158.64
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly .....	3,879.12	188.00
<b>22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)</b>		
Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,871.50	152.69
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,947.07	203.02
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	4,243.84	234.96
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	4,284.69	261.94
<b>22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)</b>		
Note: Oatey.		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	158.25	50.89
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	191.87	67.68
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	516.40	87.32
<b>22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)</b>		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	366.91	101.78
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	488.57	135.34
Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	808.69	174.63
Note: Includes valve body, flapper assembly and collar.		
<b>22 13 19 36 Air-Admittance Valves (22 13 19)</b>		
<b>22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)</b>		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	314.96	19.74
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	376.90	19.74
<b>22 13 23 Sanitary Waste Interceptors (22 13)</b>		
<b>22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)</b>		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180) .....	1,325.71	199.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184) .....	1,327.31	199.63
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 23 00-0004	EA			1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....1,846.84 Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,846.84	199.63
22 13 23 00-0005	EA			1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0) .....1,846.84 Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,846.84	199.63
22 13 23 00-0006	EA			1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030) .....1,964.46 Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.	1,964.46	199.63
<b>22 13 23 00-0007</b>				<b>Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)</b>		
22 13 23 00-0008	EA			1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....359.17 <i>For Stainless Steel Bucket, Add</i>	359.17 175.00	68.29
22 13 23 00-0009	EA			2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....367.90 <i>For Stainless Steel Bucket, Add</i>	367.90 175.00	72.74
<b>22 13 23 00-0010</b>				<b>Sediment Strainers (22 13 23)</b>		
22 13 23 00-0011	EA			2" Strainer, Pump Suction Side .....211.54	211.54	93.19
<b>22 13 29</b>				<b>Sanitary Sewerage Pumps (22 13)</b> Note: Includes extra set of gaskets, bearings and seals.		
<b>22 13 29 13</b>				<b>Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)</b>		
<b>22 13 29 13-0001</b>				<b>Vertical Column, Flanged Discharge, Non-Clog Sump Or Drainage Pumps (Crane-DeMing Series 4500) (22 13 29 13)</b> Note: Mounted on steel support plate. Excludes float and float switch, and sump cover See CSI section 22 13 29 13-0030 for float and float switch, 22 13 29 13-0034 for sump cover.		
<b>22 13 29 13-0002</b>				<b>1-1/2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)</b>		
22 13 29 13-0003	EA			1/2 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM .....8,271.70	8,271.70	1,691.21
22 13 29 13-0004	EA			3/4 HP, Up To 125 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM .....8,572.22	8,572.22	1,691.21
22 13 29 13-0005	EA			1 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM .....8,872.74	8,872.74	1,691.21
22 13 29 13-0006	EA			1-1/2 HP, Up To 150 GPM Sump Or Drainage Pump, Vertical Non-Clog, 2-1/2" Discharge Pipe, 1,750 RPM .....9,159.39	9,159.39	1,691.21
<b>22 13 29 13-0007</b>				<b>2" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)</b>		
22 13 29 13-0008	EA			3/4 HP, Up To 75 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....9,103.91	9,103.91	1,691.21
22 13 29 13-0009	EA			1 HP, Up To 100 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....9,219.49	9,219.49	1,691.21
22 13 29 13-0010	EA			2 HP, Up To 200 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....9,300.40	9,300.40	1,691.21
22 13 29 13-0011	EA			3 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....9,855.21	9,855.21	1,691.21
22 13 29 13-0012	EA			5 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....10,398.46	10,398.46	1,691.21
22 13 29 13-0013	EA			7-1/2 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....11,230.67	11,230.67	1,691.21
22 13 29 13-0014	EA			10 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....12,062.88	12,062.88	1,691.21
22 13 29 13-0015	EA			15 HP, Up To 600 GPM Sump Or Drainage Pump, Vertical Non-Clog, 3" Discharge Pipe, 1,750 RPM .....14,013.95	14,013.95	2,250.62
<b>22 13 29 13-0016</b>				<b>3" Solids 1,750 RPM Vertical Sump Or Drainage Pumps (22 13 29 13-0001)</b>		
22 13 29 13-0017	EA			2 HP, Up To 300 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....9,683.06	9,683.06	1,691.21
22 13 29 13-0018	EA			3 HP, Up To 400 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....9,683.06	9,683.06	1,691.21
22 13 29 13-0019	EA			5 HP, Up To 500 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....9,883.32	9,883.32	1,691.21
22 13 29 13-0020	EA			7-1/2 HP, Up To 700 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....11,437.15	11,437.15	1,691.21
22 13 29 13-0021	EA			10 HP, Up To 800 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....11,709.72	11,709.72	1,691.21
22 13 29 13-0022	EA			15 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....14,109.83	14,109.83	2,250.62
22 13 29 13-0023	EA			20 HP, Up To 900 GPM Sump Or Drainage Pump, Vertical Non-Clog, 4" Discharge Pipe, 1,750 RPM .....14,803.34	14,803.34	2,250.62
<b>22 13 29 13-0024</b>				<b>Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)</b>		
22 13 29 13-0025	EA			2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....544.22	544.22	
22 13 29 13-0026	EA			3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....653.44	653.44	
22 13 29 13-0027	EA			4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....730.37	730.37	
22 13 29 13-0028	EA			5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....743.67	743.67	
22 13 29 13-0029	EA			6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....834.84	834.84	
<b>22 13 29 13-0030</b>				<b>Float Switches (22 13 29 13-0001)</b> Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031	EA			Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps .....489.13	489.13	
22 13 29 13-0032	EA			Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps .....513.82	513.82	
22 13 29 13-0033	EA			Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps .....525.22	525.22	
<b>22 13 29 13-0034</b>				<b>Square Or Round Steel Sump Covers (22 13 29 13-0001)</b>		
22 13 29 13-0035	EA			24" Steel Sump Covers, Square Or Round.....917.25	917.25	56.39
22 13 29 13-0036	EA			30" Steel Sump Covers, Square Or Round.....1,015.59	1,015.59	63.44
22 13 29 13-0037	EA			36" Steel Sump Covers, Square Or Round.....1,408.45	1,408.45	84.59



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29	13-0038	EA	40" Steel Sump Covers, Square Or Round.....	2,038.48	98.69
22 13 29	13-0039	EA	42" Steel Sump Covers, Square Or Round.....	2,184.52	102.21
22 13 29	13-0040	EA	48" Steel Sump Covers, Square Or Round.....	2,335.17	105.74
22 13 29	13-0041	EA	54" Steel Sump Covers, Square Or Round.....	2,972.93	126.88
22 13 29	13-0042	EA	60" Steel Sump Covers, Square Or Round.....	4,020.05	140.98
22 13 29	13-0043	EA	72" Steel Sump Covers, Square Or Round.....	5,097.82	176.23
22 13 29	13-0044	EA	84" Steel Sump Covers, Square Or Round.....	6,473.43	193.84
<b>22 13 29 16 Submersible Sewerage Pumps (22 13 29)</b>					
22 13 29	16-0001		Submersible Sewage Pumps With Vortex Impeller (22 13 29 16)		
22 13 29	16-0002		Submersible Single Seal Sewage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)		
			Note: Includes 25' cord.		
22 13 29	16-0003	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,610.27	102.60
22 13 29	16-0004	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,713.11	102.60
22 13 29	16-0005	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,681.47	102.60
22 13 29	16-0006	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,833.09	102.60
22 13 29	16-0007	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,833.09	102.60
22 13 29	16-0008	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,949.21	128.24
22 13 29	16-0009	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	2,083.69	128.24
22 13 29	16-0010	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	2,100.84	128.24
22 13 29	16-0011		Submersible Single Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
			Note: Includes 20' cord.		
22 13 29	16-0012	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....	1,639.27	102.60
22 13 29	16-0013	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....	1,786.95	102.60
22 13 29	16-0014	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....	1,717.07	102.60
22 13 29	16-0015	EA	1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,859.46	102.60
22 13 29	16-0016	EA	1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....	1,987.36	102.60
22 13 29	16-0017	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....	1,867.46	128.24
22 13 29	16-0018	EA	1 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,020.41	128.24
22 13 29	16-0019	EA	1 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller .....	2,019.09	128.24
22 13 29	16-0020	EA	1-1/2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,343.71	206.73
22 13 29	16-0021	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,472.92	206.73
22 13 29	16-0022	EA	1-1/2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,495.34	206.73
22 13 29	16-0023	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,527.18	252.67
22 13 29	16-0024	EA	2 HP Automatic Submersible Single Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,674.85	252.67
22 13 29	16-0025	EA	2 HP Manual Submersible Single Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,678.80	252.67
22 13 29	16-0026		Submersible Double Seal Sewage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
			Note: Includes 20' cord.		
22 13 29	16-0027	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 115 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	1,934.62	102.60
22 13 29	16-0028	EA	1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,185.13	102.60
22 13 29	16-0029	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller .....	2,148.30	128.24
22 13 29	16-0030	EA	1 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron And Bronze Impeller .....	2,299.93	128.24
22 13 29	16-0031	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,645.65	206.73
22 13 29	16-0032	EA	1-1/2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,797.27	206.73
22 13 29	16-0033	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,830.43	252.67



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0034	EA	2 HP Manual Submersible Double Seal Sewage Pump, 230 Volt, 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Bronze Impeller.....	2,982.06	252.67
<b>22 13 29 16-0035</b>		<b>Submersible Sewage Pumps With Semi-Open Impeller</b> <small>(22 13 29 16)</small>		
		Note: Includes 25' of cord with pump.		
22 13 29 16-0036	EA	1 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	4,652.60	128.24
22 13 29 16-0037	EA	1.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	4,942.31	187.87
22 13 29 16-0038	EA	2 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	5,301.29	229.62
22 13 29 16-0039	EA	3 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	5,553.96	278.33
22 13 29 16-0040	EA	5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	6,235.50	327.04
22 13 29 16-0041	EA	7.5 HP Manual Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	6,967.23	375.75
<b>22 13 29 16-0042</b>		<b>Submersible Sewage Pumps, Explosion Proof</b> <small>(22 13 29 16)</small>		
		Note: Includes 25' of cord with pump.		
22 13 29 16-0043	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,403.08	459.53
22 13 29 16-0044	EA	1 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	6,843.71	459.53
22 13 29 16-0045	EA	1 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	6,843.71	459.53
22 13 29 16-0046	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,816.64	612.71
22 13 29 16-0047	EA	1.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,257.27	612.71
22 13 29 16-0048	EA	1.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,257.27	612.71
22 13 29 16-0049	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,345.58	765.89
22 13 29 16-0050	EA	2 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,786.21	765.89
22 13 29 16-0051	EA	2 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	7,786.21	765.89
22 13 29 16-0052	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,766.15	919.07
22 13 29 16-0053	EA	3 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,206.78	919.07
22 13 29 16-0054	EA	3 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	8,206.78	919.07
22 13 29 16-0055	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 1 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	9,707.61	1,072.25
22 13 29 16-0056	EA	5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	9,148.24	1,072.25
22 13 29 16-0057	EA	5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	9,148.24	1,072.25
22 13 29 16-0058	EA	7.5 HP Explosion Proof Manual Sewage Pump, 230 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	10,102.54	1,225.42
22 13 29 16-0059	EA	7.5 HP Explosion Proof Manual Sewage Pump, 460 Volt, 3 Phase, 1750 RPM, 3" Vertical Or 4" Horizontal Flanged Discharge, Epoxy-Coated Cast Iron Housing And Impeller.....	10,102.54	1,225.42
<b>22 13 29 16-0060</b>		<b>Submersible Sewage Pump Accessories</b> <small>(22 13 29 16)</small>		
22 13 29 16-0061	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 115 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light and alarm float switch.	801.39	115.36
22 13 29 16-0062	EA	Simplex Plug In Pump Control Panel with Alarm Float Only, 230 Volt, 1 Phase, 0-15 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light, and alarm float switch.	826.59	115.36
22 13 29 16-0063	EA	Simplex Control Panel With 3 Floats, 115/208/230 Volt, 1 Phase, 0-20 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn, warning light, HOA switch and three 20' control float switches.	1,607.69	153.82
22 13 29 16-0064	EA	Simplex Control Panel 208/230/460 Volt, 3 Phase, 1-23 Amperes Range, Indoor/Outdoor, NEMA 4X Enclosure For Submersible Sewage Pump..... Note: Includes alarm horn and warning light. Control float switches not included.	2,252.68	153.82
22 13 29 16-0065	EA	Simplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	4,584.10	153.82
22 13 29 16-0066	EA	Simplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	4,793.08	153.82
22 13 29 16-0067	EA	Duplex Intrinsically Safe Control Panel, 230 Volt, 1 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	7,638.31	192.28
22 13 29 16-0068	EA	Duplex Intrinsically Safe Control Panel, 200/230/460 Volt, 3 Phase, Indoor/Outdoor 4X Enclosure For Submersible Sewage Pumps With Explosion Proof Motors..... Note: Includes alarm horn and warning light. Control float switches not included.	6,449.42	192.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0069 EA Electrical Alternator Duplex Control Panel with 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps ..... 1,789.16	1,789.16	192.28
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0070 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115 Volt, 1 Phase, 7-20 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps ..... 1,965.52	1,965.52	192.28
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0071 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-20 Amperes, Indoor NEMA 1 Enclosure For Submersible Sewage Pumps ..... 1,888.68	1,888.68	192.28
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0072 EA Electrical Alternator Duplex Control Panel With 3 Floats, 115/200/230 Volt, 1 Phase, 0-30 Amperes Range, Indoor NEMA 4X Enclosure For Submersible Sewage Pumps ..... 2,047.62	2,047.62	192.28
Note: Includes alarm horn, warning light, and three 20' float switches.		
22 13 29 16-0073 EA Electrical Alternator Duplex Control Panel, 200/230/460 Volt, 3 Phase, 1-25 Amperes Range, Indoor/Outdoor NEMA 4X Enclosure For Submersible Sewage Pumps ..... 3,467.26	3,467.26	192.28
Note: Includes alarm horn and warning light. Float switches not included..		
22 13 29 16-0074 EA Alarm System, 115 Volt, Indoor/Outdoor 4X Enclosure ..... 658.98	658.98	76.91
Note: Includes alarm horn, warning light and 15' tethered float.		
22 13 29 16-0075 EA Variable Level (Clamp Type) Float Switch With 15' Cord ..... 132.34	132.34	38.46
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0076 EA Variable Level (Clamp Type) Float Switch With 15' Cord For Intrinsically Safe Control Systems Only ..... 147.20	147.20	38.46
22 13 29 16-0077 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord ..... 166.20	166.20	38.46
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0078 EA Variable Level (Adjustable Weight Type) Float Switch With 25' Cord For Intrinsically Safe Control Systems Only ..... 163.15	163.15	38.46
22 13 29 16-0079 EA Float Switch Tree With (3) 15' Floats ..... 474.01	474.01	38.46
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0080 EA Float Switch Tree And (3) Floats With 15' Cords For Intrinsically Safe Control Systems Only ..... 483.49	483.49	38.46
22 13 29 16-0081 EA Float Switch Tree And (4) Floats With 15' Cords ..... 526.43	526.43	38.46
Note: Not for use with Intrinsically Safe Control Systems.		
22 13 29 16-0082 EA Float Switch Tree And (4) Floats With 15' Cords For Intrinsically Safe Control Systems Only ..... 548.35	548.35	38.46
22 13 29 16-0083 EA Float Switch Tree ..... 257.97	257.97	38.46
Note: Tree only.		
22 13 29 16-0084 EA Adjustable Weight For Float Switch ..... 71.67	71.67	19.22
22 13 29 16-0085 EA Rail And Disconnect System, Stainless Steel, For 2" Horizontal Discharge ..... 1,336.51	1,336.51	115.36
Note: Lifting equipment not included.		
22 13 29 16-0086 EA Rail And Disconnect System, Stainless Steel, For 3" Horizontal Discharge ..... 2,087.40	2,087.40	153.82
Note: Lifting equipment not included.		
22 13 29 16-0087 EA Rail And Disconnect System, Stainless Steel, For 4" Horizontal Discharge ..... 2,723.90	2,723.90	192.28
Note: Lifting equipment not included.		
22 13 29 16-0088 EA Rail And Disconnect System, Stainless Steel Non-Spearking, For 3" Horizontal Discharge ..... 2,635.44	2,635.44	115.36
22 13 29 16-0089 EA Rail And Disconnect System, Stainless Steel Non-Spearking, For 4" Horizontal Discharge ..... 3,703.43	3,703.43	115.36
22 13 29 16-0090 EA Intermediate Guide Rail Bracket, Stainless Steel, For 2" Rail System ..... 397.58	397.58	76.91
22 13 29 16-0091 EA Intermediate Guide Rail Bracket, Stainless Steel, For 3" Rail Systems ..... 688.99	688.99	96.14
22 13 29 16-0092 EA Intermediate Guide Rail Bracket, Stainless Steel, For 4" Rail Systems ..... 695.98	695.98	115.36
22 13 29 16-0093 EA 12" Stainless Steel Lifting Cable ..... 196.17	196.17	38.46
22 13 29 16-0094 EA Disconnect Fitting For 2" Horizontal Discharge ..... 377.04	377.04	38.46
Note: Used for shallow systems where guide rails are not necessary.		

### 22 13 29 33 Sewerage Pump Basins and Pits (22 13 29)

22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)

22 13 29 33-0002 High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)

22 13 29 33-0003 EA 18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 156.91	156.91	
22 13 29 33-0004 EA 18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 199.22	199.22	
22 13 29 33-0005 EA 24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 428.42	428.42	
22 13 29 33-0006 EA 24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 594.16	594.16	
22 13 29 33-0007 EA 30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 759.89	759.89	
22 13 29 33-0008 EA 36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub ..... 881.54	881.54	

22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)

22 13 29 33-0010 EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub ..... 397.89	397.89	
22 13 29 33-0011 EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub ..... 794.89	794.89	
22 13 29 33-0012 EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub ..... 1,417.14	1,417.14	
22 13 29 33-0013 EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub ..... 1,902.34	1,902.34	
22 13 29 33-0014 EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub ..... 2,190.25	2,190.25	
22 13 29 33-0015 EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub ..... 2,313.35	2,313.35	
22 13 29 33-0016 EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub ..... 2,715.01	2,715.01	
22 13 29 33-0017 EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub ..... 3,151.55	3,151.55	

### 22 14 Facility Storm Drainage (22 10)

22 14 13 Facility Storm Drainage Piping (22 14)

See CSI section 22 13 16 00-0000 for storm drainage piping.

22 14 26 Facility Storm Drains (22 14)

22 14 26 13 Roof Drains (22 14 26)

22 14 26 13-0001 Cast Iron Roof Drains (22 14 26 13)



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Storm Drainage</b>	<b>22 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 14 26 13-0002 Cast Iron Roof Drains With Large Polypropylene Dome</b> <small>(22 14 26 13-0001)</small>		
<small>Note: Dome free area is 124 square inches.</small>		
22 14 26 13-0003 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	1,050.79	235.01
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Bronze Dome, Add</i>	448.80	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0004 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	1,168.27	281.96
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Bronze Dome, Add</i>	448.80	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0005 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	1,285.76	352.45
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Bronze Dome, Add</i>	448.80	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0006 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	1,711.49	422.94
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Bronze Dome, Add</i>	448.80	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0007 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	1,770.23	469.89
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Bronze Dome, Add</i>	448.80	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0008 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	2,064.85	493.44
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Bronze Dome, Add</i>	448.80	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0009 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	2,722.82	511.05
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Bronze Dome, Add</i>	448.80	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
<b>22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint</b> <small>(22 14 26 13-0001)</small>		
<small>Note: With polypropylene dome. Dome free area is 124 square inches.</small>		
22 14 26 13-0011 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome .....	1,594.12	235.01
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0012 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome .....	1,749.56	281.96
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0013 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome .....	1,940.96	352.45
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0014 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome .....	2,664.32	422.94
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
22 14 26 13-0015 EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome .....	2,860.89	469.89
<i>For Galvanized Iron Parts, Add</i>	518.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	
<b>22 14 26 13-0016 Cast Iron Roof Drains With Flat Bronze Promenade Top</b> <small>(22 14 26 13-0001)</small>		
22 14 26 13-0017 EA 14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top .....	2,128.66	235.01
<i>For Galvanized Iron Parts, Add</i>	197.00	
<i>For Deck Clamp Assembly, Add</i>	130.00	
<i>For Drain Receiver, Add</i>	147.00	
<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	357.00	

**22 Plumbing**

**22 10 Plumbing Piping**

**22 14 Facility Storm Drainage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0018	EA		14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,246.14 197.00 130.00 147.00 357.00	281.96
22 14 26 13-0019	EA		14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,363.63 197.00 130.00 147.00 357.00	352.45
22 14 26 13-0020	EA		14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,773.39 197.00 130.00 147.00 357.00	422.94
22 14 26 13-0021	EA		14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	2,832.13 197.00 130.00 147.00 357.00	469.89
<b>22 14 26 13-0022</b>			<b>Cast Iron Scupper Drain With L-Shaped Bronze Grate</b> (22 14 26 13-0001)		
22 14 26 13-0023	EA		Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,349.67 33.00 128.00	94.03
22 14 26 13-0024	EA		Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,396.67 33.00 128.00	117.44
22 14 26 13-0025	EA		Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Galvanized Iron Parts, Add</i>	1,418.03 33.00 128.00 258.00	128.15
22 14 26 13-0026	EA		Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Iron Parts, Add</i>	1,990.44 33.00 258.00	169.88
22 14 26 13-0027	EA		Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate..... <i>For Vandal Proof Grate, Add</i> <i>For Galvanized Iron Parts, Add</i>	2,065.38 33.00 258.00	207.38
<b>22 14 26 13-0028</b>			<b>Cast Iron Roof Drain With Flat Cast Iron Grate</b> (22 14 26 13-0001) Note: Grate free area is 27 square inches.		
22 14 26 13-0029	EA		9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,142.61 144.00 80.40 93.60	235.01
22 14 26 13-0030	EA		9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,260.09 144.00 80.40 93.60	281.96
22 14 26 13-0031	EA		9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,377.58 144.00 80.40 93.60	352.45
<b>22 14 26 13-0032</b>			<b>Cast Iron Roof Drains With Large Cast Iron Dome</b> (22 14 26 13-0001)		
22 14 26 13-0033	EA		15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,222.45 518.00 130.00 147.00 357.00	235.01
22 14 26 13-0034	EA		15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,339.93 518.00 130.00 147.00 357.00	281.96
22 14 26 13-0035	EA		15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,457.42 518.00 130.00 147.00 357.00	352.45
22 14 26 13-0036	EA		15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,883.15 518.00 130.00 147.00 357.00	422.94
22 14 26 13-0037	EA		15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,941.89 518.00 130.00 147.00 357.00	469.89





	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Storm Drainage</b>	<b>22 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0038 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome .....	2,236.51	493.44
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0039 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome .....	2,894.48	511.05
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
<b>22 14 26 13-0040 Aluminum Roof Drains (22 14 26 13)</b>		
<b>22 14 26 13-0041 Aluminum Dome Roof Drains (22 14 26 13-0040)</b>		
22 14 26 13-0042 EA 15" Diameter Roof Drain With 2" Outlet, Aluminum Dome.....	1,252.39	235.01
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0043 EA 15" Diameter Roof Drain With 3" Outlet, Aluminum Dome.....	1,369.87	281.96
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0044 EA 15" Diameter Roof Drain With 4" Outlet, Aluminum Dome.....	1,487.36	352.45
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0045 EA 15" Diameter Roof Drain With 6" Outlet, Aluminum Dome.....	1,971.83	469.46
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0046 EA 15" Diameter Roof Drain With 8" Outlet, Aluminum Dome.....	2,266.73	493.44
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
22 14 26 13-0047 EA 15" Diameter Roof Drain With 10" Outlet, Aluminum Dome .....	2,924.43	511.05
For Galvanized Iron Parts, Add	518.00	
For Deck Clamp Assembly, Add	130.00	
For Drain Receiver, Add	147.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	357.00	
<b>22 14 26 13-0048 Retrofit Roof Drains (22 14 26 13)</b>		
<b>22 14 26 13-0049 Retrofit Copolymer Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)</b>		
22 14 26 13-0050 EA Copolymer Retrofit 3" Roof Drains, With Copolymer Dome .....	975.92	281.96
22 14 26 13-0051 EA Copolymer Retrofit 4" Roof Drains, With Copolymer Dome .....	1,108.36	352.45
22 14 26 13-0052 EA Copolymer Retrofit 5" Roof Drains, With Copolymer Dome .....	1,344.35	422.94
22 14 26 13-0053 EA Copolymer Retrofit 6" Roof Drains, With Copolymer Dome .....	1,462.86	469.46
<b>22 14 26 13-0054 Retrofit Copolymer Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)</b>		
22 14 26 13-0055 EA Copolymer Retrofit Drain, 3", With Cast Aluminum Dome .....	1,110.41	281.96
22 14 26 13-0056 EA Copolymer Retrofit Drain, 4", With Cast Aluminum Dome .....	1,236.86	352.45
22 14 26 13-0057 EA Copolymer Retrofit Drain, 5", With Cast Aluminum Dome .....	1,481.82	422.94
22 14 26 13-0058 EA Copolymer Retrofit Drain, 6", With Cast Aluminum Dome .....	1,558.49	469.46
<b>22 14 26 13-0059 Retrofit Roof Aluminum Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)</b>		
22 14 26 13-0060 EA Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome .....	981.90	281.96
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0061 EA Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome .....	1,114.33	352.45
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0062 EA Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome .....	1,350.32	422.94
For Copolymer Strainer Dome, Deduct	-24.00	
22 14 26 13-0063 EA Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome .....	1,421.02	469.46
For Copolymer Strainer Dome, Deduct	-24.00	
<b>22 14 26 13-0064 Bronze Downspout Nozzles (22 14 26 13)</b>		
22 14 26 13-0065 EA 2" Outlet, Bronze Roof Drain Downspout Nozzle.....	574.29	140.98
22 14 26 13-0066 EA 3" Outlet, Bronze Roof Drain Downspout Nozzle.....	574.29	140.98
22 14 26 13-0067 EA 4" Outlet, Bronze Roof Drain Downspout Nozzle.....	574.29	140.98
22 14 26 13-0068 EA 5" Outlet, Bronze Roof Drain Downspout Nozzle.....	878.78	176.23
22 14 26 13-0069 EA 6" Outlet, Bronze Roof Drain Downspout Nozzle.....	878.78	176.23
22 14 26 13-0070 EA 8" Outlet, Bronze Roof Drain Downspout Nozzle.....	1,123.82	176.23

**22 Plumbing**

**22 10 Plumbing Piping**

**22 14 Facility Storm Drainage**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**22 14 26 16 Facility Area Drains (22 14 26)**

22 14 26 16-0001	Area Drain (22 14 26 16)			
22 14 26 16-0002	EA 12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,399.24	169.74	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0003	EA 12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,435.84	188.07	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0004	EA 12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,474.34	207.38	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0005	EA 12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,514.47	227.40	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0006	EA 12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,101.10	169.74	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0007	EA 12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,137.70	188.07	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0008	EA 12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,176.20	207.38	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0009	EA 12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,216.33	227.40	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0010	EA 12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,174.72	169.74	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0011	EA 12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,211.32	188.07	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0012	EA 12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,249.82	207.38	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0013	EA 12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	3,289.95	227.40	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Vandal Proof Screws, Add</i>	29.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	152.25		
22 14 26 16-0014	EA 16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,830.23	169.74	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	258.50		
22 14 26 16-0015	EA 16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	6,866.83	188.07	
	<i>For Ductile Iron Grate, Add</i>	123.50		
	<i>For Primer Tap, Add</i>	36.00		
	<i>For Galvanized Cast Iron Parts, Add</i>	258.50		



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Storm Drainage</b>	<b>22 14</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0016	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,905.33	207.38
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0017	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,945.46	227.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0018	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,347.43	169.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0019	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,384.03	188.07
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0020	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,422.53	207.38
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0021	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	3,462.66	227.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0022	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,476.19	169.74
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0023	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,512.79	188.07
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0024	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,551.29	207.38
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0025	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	6,591.42	227.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0026	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,528.31	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0027	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,564.91	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0028	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,603.41	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0029	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	935.37	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0030	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	971.97	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0031	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,010.47	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0032	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,441.96	169.74
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0033	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,478.56	188.07
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0034	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	1,517.06	207.38
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	

**22 Plumbing**

**22 10 Plumbing Piping**

**22 14 Facility Storm Drainage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0035	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	4,559.21	169.74
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0036	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	4,595.81	188.07
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0037	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	4,634.31	207.38
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0038	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	2,973.24	169.74
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0039	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	3,009.84	188.07
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0040	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	3,048.34	207.38
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0041	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	4,282.89	169.74
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0042	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	4,319.49	188.07
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	
22 14 26 16-0043	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Gate And Removable Medium-Deep Sediment Strainer	4,357.99	207.38
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Gate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	307.50	

**22 14 26 19 Facility Trench Drains (22 14 26)**

22 14 26 19-0001			<b>Trench Drain (22 14 26 19)</b>		
			Note: Each section is 39.4" in length.		
22 14 26 19-0002	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,188.79	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0003	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,225.39	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0004	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,263.89	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0005	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	750.19	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0006	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	786.79	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0007	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	825.29	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0008	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Gate With Perimeter Drainage Slots	1,129.03	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Gate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Storm Drainage</b>	<b>22 14</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0009	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,165.63	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0010	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,204.13	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0011	EA		6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,018.31	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0012	EA		6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	579.71	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0013	EA		6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	958.55	84.59
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26 19-0014	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,845.24	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0015	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,881.84	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0016	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,920.34	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0017	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,302.54	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0018	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,339.14	188.07
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0019	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,377.64	207.38
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0020	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,771.02	169.74
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	

**22 Plumbing**

**22 10 Plumbing Piping**

**22 14 Facility Storm Drainage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0021	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,807.62	188.07
			<i>For Vandal Proof Screws, Add</i> .....	48.50	
			<i>For Ductile Iron Grate, Add</i> .....	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i> .....	38.50	
			<i>For Sediment Bucket, Add</i> .....	116.00	
			<i>For Galvanized Sediment Bucket, Add</i> .....	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i> .....	131.50	
22 14 26 19-0022	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,846.12	207.38
			<i>For Vandal Proof Screws, Add</i> .....	48.50	
			<i>For Ductile Iron Grate, Add</i> .....	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i> .....	38.50	
			<i>For Sediment Bucket, Add</i> .....	116.00	
			<i>For Galvanized Sediment Bucket, Add</i> .....	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i> .....	131.50	
22 14 26 19-0023	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,556.05	169.74
			<i>For Vandal Proof Screws, Add</i> .....	48.50	
			<i>For Ductile Iron Grate, Add</i> .....	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i> .....	38.50	
			<i>For Sediment Bucket, Add</i> .....	116.00	
			<i>For Galvanized Sediment Bucket, Add</i> .....	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i> .....	131.50	
22 14 26 19-0024	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,592.65	188.07
			<i>For Vandal Proof Screws, Add</i> .....	48.50	
			<i>For Ductile Iron Grate, Add</i> .....	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i> .....	38.50	
			<i>For Sediment Bucket, Add</i> .....	116.00	
			<i>For Galvanized Sediment Bucket, Add</i> .....	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i> .....	131.50	
22 14 26 19-0025	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,631.15	207.38
			<i>For Vandal Proof Screws, Add</i> .....	48.50	
			<i>For Ductile Iron Grate, Add</i> .....	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i> .....	38.50	
			<i>For Sediment Bucket, Add</i> .....	116.00	
			<i>For Galvanized Sediment Bucket, Add</i> .....	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i> .....	131.50	
22 14 26 19-0026	EA		12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,674.73	84.59
			<i>For Vandal Proof Screws, Add</i> .....	48.50	
			<i>For Ductile Iron Grate, Add</i> .....	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i> .....	38.50	
22 14 26 19-0027	EA		12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,132.03	84.59
			<i>For Vandal Proof Screws, Add</i> .....	48.50	
			<i>For Ductile Iron Grate, Add</i> .....	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i> .....	38.50	
22 14 26 19-0028	EA		12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,600.51	84.59
			<i>For Vandal Proof Screws, Add</i> .....	48.50	
			<i>For Ductile Iron Grate, Add</i> .....	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i> .....	38.50	
22 14 26 19-0029	EA		12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots .....	1,385.54	84.59
			<i>For Vandal Proof Screws, Add</i> .....	48.50	
			<i>For Ductile Iron Grate, Add</i> .....	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i> .....	38.50	

**22 14 29 Sump Pumps** (22 14)

See CSI section 22 11 16 00-0000 for pipe extensions into well.

**22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps** (22 14 29)

**22 14 29 13-0001 Vertical Mounted Sump Pumps** (22 14 29 13)

Note: Supplied with 1750 RPM premium efficient motor with drip cover, float switch assembly, steel support mounting plate and 5' column sections.

22 14 29 13-0002	EA		1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....	6,603.44	409.02
			<i>For Explosion Proof Motor, Add</i> .....	283.84	
22 14 29 13-0003	EA		1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....	7,015.56	495.05
			<i>For Explosion Proof Motor, Add</i> .....	315.55	
22 14 29 13-0004	EA		2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head.....	8,027.64	588.13
			<i>For Explosion Proof Motor, Add</i> .....	407.65	
22 14 29 13-0005	EA		3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head.....	8,615.59	723.53
			<i>For Explosion Proof Motor, Add</i> .....	462.00	
22 14 29 13-0006	EA		5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head.....	9,110.33	784.18
			<i>For Explosion Proof Motor, Add</i> .....	674.88	
22 14 29 13-0007	EA		10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head.....	10,809.49	940.73
			<i>For Explosion Proof Motor, Add</i> .....	765.47	
22 14 29 13-0008	EA		15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head.....	12,575.55	974.38
			<i>For Explosion Proof Motor, Add</i> .....	1,254.64	
22 14 29 13-0009	EA		20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head.....	14,919.14	1,085.51
			<i>For Explosion Proof Motor, Add</i> .....	1,665.31	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				22 14 29 13-0010 EA 30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head.....	16,139.08	1,265.98
				<i>For Explosion Proof Motor, Add</i>	2,159.01	
				22 14 29 13-0011 EA 50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head.....	21,612.02	1,519.71
				<i>For Explosion Proof Motor, Add</i>	2,812.76	
				22 14 29 13-0012 EA 60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head.....	29,813.48	1,687.97
				<i>For Explosion Proof Motor, Add</i>	4,458.44	
<b>22 14 29 13-0013 Extra Column Assemblies</b> <small>(22 14 29 13)</small>						
				22 14 29 13-0014 EA 1-1/2" Diameter x 5' Long Extra Column Assembly.....	1,001.93	
				22 14 29 13-0015 EA 2" Diameter x 5' Long Extra Column Assembly.....	1,096.34	
				22 14 29 13-0016 EA 2-1/2" Diameter x 5' Long Extra Column Assembly.....	1,199.66	
				22 14 29 13-0017 EA 3" Diameter x 5' Long Extra Column Assembly.....	1,440.42	
				22 14 29 13-0018 EA 4" Diameter x 5' Long Extra Column Assembly.....	1,610.01	
				22 14 29 13-0019 EA 5" Diameter x 5' Long Extra Column Assembly.....	1,639.32	
				22 14 29 13-0020 EA 6" Diameter x 5' Long Extra Column Assembly.....	1,840.31	
				22 14 29 13-0021 EA 8" Diameter x 5' Long Extra Column Assembly.....	2,013.73	
<b>22 14 29 13-0022 Support Plate</b> <small>(22 14 29 13)</small>						
				22 14 29 13-0023 EA 24" Steel Support Plate, Round Or Square.....	917.25	56.39
				22 14 29 13-0024 EA 30" Steel Support Plate, Round Or Square.....	1,015.59	63.44
				22 14 29 13-0025 EA 36" Steel Support Plate, Round Or Square.....	1,408.45	84.59
				22 14 29 13-0026 EA 40" Steel Support Plate, Round Or Square.....	2,038.48	98.69
				22 14 29 13-0027 EA 42" Steel Support Plate, Round Or Square.....	2,184.52	102.21
				22 14 29 13-0028 EA 48" Steel Support Plate, Round Or Square.....	2,335.03	105.74
				22 14 29 13-0029 EA 54" Steel Support Plate, Round Or Square.....	2,972.93	126.88
				22 14 29 13-0030 EA 60" Steel Support Plate, Round Or Square.....	4,020.05	140.98
				22 14 29 13-0031 EA 72" Steel Support Plate, Round Or Square.....	5,365.15	176.23
				22 14 29 13-0032 EA 84" Steel Support Plate, Round Or Square.....	6,473.43	193.84
<b>22 14 29 16 Submersible Sump Pumps</b> <small>(22 14 29)</small>						
<b>22 14 29 16-0001 Submersible Sump Pump With Vortex Impeller</b> <small>(22 14 29 16)</small>						
<b>22 14 29 16-0002 Submersible Sump Pump With Cast Iron Vortex Impeller</b> <small>(22 14 29 16-0001)</small>						
				22 14 29 16-0003 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	584.41	91.88
				22 14 29 16-0004 EA 1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	642.46	91.88
				22 14 29 16-0005 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	985.68	97.23
				22 14 29 16-0006 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,077.54	97.23
<b>22 14 29 16-0007 Submersible Sump Pump With Bronze Vortex Impeller</b> <small>(22 14 29 16-0001)</small>						
Note: Includes 20' of cord with pump.						
				22 14 29 16-0008 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,626.18	97.23
				22 14 29 16-0009 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,764.61	97.23
				22 14 29 16-0010 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,856.49	107.20
				22 14 29 16-0011 EA 1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,004.49	107.20
				22 14 29 16-0012 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,069.56	122.50
				22 14 29 16-0013 EA 1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,215.01	122.50
				22 14 29 16-0014 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,229.06	145.47
				22 14 29 16-0015 EA 2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	2,355.38	145.47
<b>22 14 29 16-0016 Submersible Sump Pump With Semi-Open Impeller</b> <small>(22 14 29 16)</small>						
Note: Includes 20' of cord with pump.						
				22 14 29 16-0017 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,305.42	91.88
				22 14 29 16-0018 EA 1/3 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,346.12	91.88
				22 14 29 16-0019 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,670.59	97.23
				22 14 29 16-0020 EA 1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	1,699.19	97.23
				22 14 29 16-0021 EA 3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,030.27	102.60
				22 14 29 16-0022 EA 3/4 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,030.27	102.60
				22 14 29 16-0023 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller.....	2,146.80	107.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0024 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....	2,146.80	107.20
22 14 29 16-0025 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....	2,450.17	122.50
22 14 29 16-0026 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....	2,450.17	122.50
22 14 29 16-0027 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....	2,850.29	145.47
22 14 29 16-0028 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Iron Housing And Semi-Open Impeller .....	2,800.78	145.47
<b>22 14 29 19 Sump-Pump Basins and Pits (22 14 29)</b> See CSI section 22 13 29 33-0000 for basins and pits.		
<b>22 15 General Service Compressed-Air Systems (22 15)</b>		
<b>22 15 13 General Service Compressed-Air Piping (22 15)</b> See CSI section 22 11 16 00-0013 for threaded galvanized steel pipe, 23 21 13 23-0001 for threaded black steel pipe.		
22 15 13 00-0001 Quick Disconnect, Air-Service (22 15 13)		
22 15 13 00-0002 Combination Steel And Brass (22 15 13 00-0001)		
22 15 13 00-0003 EA 1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket .....	69.65	21.44
22 15 13 00-0004 EA 3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket .....	77.17	26.03
<b>22 15 13 00-0005 Refrigerated Air Dryers With Ambient Air Filters (22 15 13)</b> Note: 120 Voltage, 1 Phase		
22 15 13 00-0006 EA 3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	842.24	122.14
22 15 13 00-0007 EA 5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	957.36	125.53
22 15 13 00-0008 EA 7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	1,120.08	128.92
22 15 13 00-0009 EA 10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	1,256.98	135.71
22 15 13 00-0010 EA 15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	1,627.55	152.67
22 15 13 00-0011 EA 20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	1,840.21	173.71
22 15 13 00-0012 EA 25 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	2,065.72	196.78
22 15 13 00-0013 EA 30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	2,423.64	220.53
22 15 13 00-0014 EA 40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	2,810.38	257.85
22 15 13 00-0015 EA 50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	3,160.79	275.49
22 15 13 00-0016 EA 60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	3,706.98	305.35
22 15 13 00-0017 EA 75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	4,259.42	339.27
For 230 Voltage, Add	1,074.26	
22 15 13 00-0018 EA 85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	4,606.51	373.20
For 230 Voltage, Add	1,158.03	
22 15 13 00-0019 EA 100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	4,965.41	413.91
For 230 Voltage, Add	1,241.81	
22 15 13 00-0020 EA 125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	5,366.40	441.05
For 230 Voltage, Add	1,345.29	
22 15 13 00-0021 EA 175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	5,671.36	458.02
For 230 Voltage, Add	1,426.60	
22 15 13 00-0022 EA 200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	9,696.80	474.98
For 230 Voltage, Add	2,624.05	
22 15 13 00-0023 EA 250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	10,412.40	491.94
For 230 Voltage, Add	2,828.56	
22 15 13 00-0024 EA 300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	11,108.30	508.90
For 230 Voltage, Add	3,027.15	
22 15 13 00-0025 EA 400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	13,171.92	542.83
For 230 Voltage, Add	3,625.88	
22 15 13 00-0026 EA 500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	14,966.02	678.55
For 230 Voltage, Add	4,082.68	
22 15 13 00-0027 EA 600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	21,224.72	814.25
For 230 Voltage, Add	5,878.87	
22 15 13 00-0028 EA 800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	28,756.43	949.96
For 230 Voltage, Add	8,056.95	
22 15 13 00-0029 EA 1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters .....	32,206.27	1,085.67
For 230 Voltage, Add	9,010.48	
<b>22 15 13 00-0030 Oil And Water Separator For Air Compressor (22 15 13)</b>		
22 15 13 00-0031 EA 0-60 SCFM Oil/Water Separator .....	728.13	49.02
22 15 13 00-0032 EA 85 SCFM Oil/Water Separator .....	972.32	57.45
22 15 13 00-0033 EA 190 SCFM Oil/Water Separator .....	1,135.47	65.10
22 15 13 00-0034 EA 245 SCFM Oil/Water Separator .....	1,422.91	76.59
22 15 13 00-0035 EA 320 SCFM Oil/Water Separator .....	1,691.73	91.90
22 15 13 00-0036 EA 700 SCFM Oil/Water Separator .....	3,413.55	191.47
<b>22 15 13 00-0037 Heavy Duty Industrial Pressure Regulator (22 15 13)</b>		
22 15 13 00-0038 EA 3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....	142.21	40.71
22 15 13 00-0039 EA 1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....	197.27	54.28
22 15 13 00-0040 EA 3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....	324.28	67.85
22 15 13 00-0041 EA 1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....	415.13	101.78
22 15 13 00-0042 EA 1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....	568.21	118.74





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 15	13	00-0043	EA 1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output .....	602.14	135.71
<b>22 15</b>	<b>13</b>	<b>00-0044</b>		<b>Combination Air System; Filter Regulator Lubricator</b> <small>(22 15 13)</small>		
	22 15	13	00-0045	EA 3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter .....	523.51	122.14
	22 15	13	00-0046	EA 1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter .....	654.20	162.85
<b>22 15</b>	<b>13</b>	<b>00-0047</b>		<b>Heatless Desiccant Air Dryers</b> <small>(22 15 13)</small>		
	22 15	13	00-0048	EA 5 SCFM Heatless Desiccant Air Dryer .....	2,778.32	122.14
	22 15	13	00-0049	EA 10 SCFM Heatless Desiccant Air Dryer .....	3,334.87	135.71
	22 15	13	00-0050	EA 15 SCFM Heatless Desiccant Air Dryer .....	3,373.51	149.28
	22 15	13	00-0051	EA 20 SCFM Heatless Desiccant Air Dryer .....	3,852.87	169.63
	22 15	13	00-0052	EA 30 SCFM Heatless Desiccant Air Dryer .....	5,292.22	203.56
	22 15	13	00-0053	EA 50 SCFM Heatless Desiccant Air Dryer .....	5,262.02	271.42
	22 15	13	00-0054	EA 85 SCFM Heatless Desiccant Air Dryer .....	7,055.12	339.27
	22 15	13	00-0055	EA 100 SCFM Heatless Desiccant Air Dryer .....	7,510.80	407.13
	22 15	13	00-0056	EA 125 SCFM Heatless Desiccant Air Dryer .....	8,603.16	474.98
	22 15	13	00-0057	EA 175 SCFM Heatless Desiccant Air Dryer .....	9,877.69	542.83
	22 15	13	00-0058	EA 200 SCFM Heatless Desiccant Air Dryer .....	10,628.55	610.68
	22 15	13	00-0059	EA 300 SCFM Heatless Desiccant Air Dryer .....	12,962.05	678.55
	22 15	13	00-0060	EA 400 SCFM Heatless Desiccant Air Dryer .....	14,429.28	814.25
	22 15	13	00-0061	EA 500 SCFM Heatless Desiccant Air Dryer .....	16,681.68	949.96
	22 15	13	00-0062	EA 600 SCFM Heatless Desiccant Air Dryer .....	19,242.87	1,085.67
<b>22 15</b>	<b>13</b>	<b>00-0063</b>		<b>Air Cooled Aftercoolers</b> <small>(22 15 13)</small>		
	22 15	13	00-0064	EA 20 SCFM Air-Cooled Aftercooler .....	728.15	84.82
	22 15	13	00-0065	EA 35 SCFM Air-Cooled Aftercooler .....	977.22	101.78
	22 15	13	00-0066	EA 43 SCFM Air-Cooled Aftercooler .....	1,076.86	118.74
	22 15	13	00-0067	EA 70 SCFM Air-Cooled Aftercooler .....	1,311.19	135.71
	22 15	13	00-0068	EA 125 SCFM Air-Cooled Aftercooler .....	1,808.32	152.67
	22 15	13	00-0069	EA 185 SCFM Air-Cooled Aftercooler .....	2,029.51	169.63
	22 15	13	00-0070	EA 260 SCFM Air-Cooled Aftercooler .....	3,867.10	203.56
	22 15	13	00-0071	EA 365 SCFM Air-Cooled Aftercooler .....	4,055.19	237.49
	22 15	13	00-0072	EA 560 SCFM Air-Cooled Aftercooler .....	4,241.97	271.42
	22 15	13	00-0073	EA 650 SCFM Air-Cooled Aftercooler .....	4,968.17	305.35
	22 15	13	00-0074	EA 750 SCFM Air-Cooled Aftercooler .....	5,434.21	339.27
	22 15	13	00-0075	EA 900 SCFM Air-Cooled Aftercooler .....	6,223.49	373.20
	22 15	13	00-0076	EA 1,100 SCFM Air-Cooled Aftercooler .....	7,953.65	407.13
	22 15	13	00-0077	EA 1,460 SCFM Air-Cooled Aftercooler .....	9,085.24	441.05
	22 15	13	00-0078	EA 1,800 SCFM Air-Cooled Aftercooler .....	9,391.28	474.98
	22 15	13	00-0079	EA 2,500 SCFM Air-Cooled Aftercooler .....	10,070.18	508.90
<b>22 15</b>	<b>13</b>	<b>00-0080</b>		<b>Compressed Air Coalescing Filters</b> <small>(22 15 13)</small>		
<b>22 15</b>	<b>13</b>	<b>00-0081</b>		<b>1.0 Micron Filter Rated Compressed Air Coalescing Filters</b> <small>(22 15 13 00-0080)</small>		
	22 15	13	00-0082	EA 10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating .....	263.83	49.78
	22 15	13	00-0083	EA 20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating .....	309.82	49.78
	22 15	13	00-0084	EA 50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating .....	339.92	57.45
	22 15	13	00-0085	EA 75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating .....	391.26	65.87
	22 15	13	00-0086	EA 100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating .....	454.33	72.76
	22 15	13	00-0087	EA 140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating .....	517.81	88.07
	22 15	13	00-0088	EA 175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating .....	634.44	95.73
	22 15	13	00-0089	EA 250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating .....	676.56	114.88
	22 15	13	00-0090	EA 280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating .....	871.41	153.18
	22 15	13	00-0091	EA 350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating .....	995.12	172.32
<b>22 15</b>	<b>13</b>	<b>00-0092</b>		<b>0.01 Micron Filter Rated Compressed Air Coalescing Filters</b> <small>(22 15 13 00-0080)</small>		
	22 15	13	00-0093	EA 16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating .....	316.39	49.78
	22 15	13	00-0094	EA 30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating .....	344.82	57.45
	22 15	13	00-0095	EA 60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating .....	395.86	65.87
	22 15	13	00-0096	EA 100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating .....	463.53	65.10
	22 15	13	00-0097	EA 140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating .....	528.32	88.07
	22 15	13	00-0098	EA 180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating .....	597.19	95.73
	22 15	13	00-0099	EA 250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating .....	688.38	114.88
	22 15	13	00-0100	EA 280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating .....	891.13	153.18
	22 15	13	00-0101	EA 350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating .....	1,021.40	172.32
<b>22 15</b>	<b>13</b>	<b>00-0102</b>		<b>Compressed Air Storage Tanks</b> <small>(22 15 13)</small>		
<b>22 15</b>	<b>13</b>	<b>00-0103</b>		<b>Horizontal Compressed Air Storage Tanks</b> <small>(22 15 13 00-0102)</small>		
	22 15	13	00-0104	EA 12 Gallon Horizontal Compressed Air Storage Tank, ASME .....	447.09	108.57
	22 15	13	00-0105	EA 15 Gallon Horizontal Compressed Air Storage Tank, ASME .....	794.69	118.74
	22 15	13	00-0106	EA 20 Gallon Horizontal Compressed Air Storage Tank, ASME .....	841.73	124.85
	22 15	13	00-0107	EA 30 Gallon Horizontal Compressed Air Storage Tank, ASME .....	957.82	135.71
	22 15	13	00-0108	EA 60 Gallon Horizontal Compressed Air Storage Tank, ASME .....	1,252.01	183.20

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 15 General Service Compressed-Air Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0109	EA		80 Gallon Horizontal Compressed Air Storage Tank, ASME .....	1,506.54	203.56
22 15 13 00-0110	EA		120 Gallon Horizontal Compressed Air Storage Tank, ASME .....	2,240.96	237.49
22 15 13 00-0111	EA		200 Gallon Horizontal Compressed Air Storage Tank, ASME .....	3,318.73	271.42
22 15 13 00-0112	EA		240 Gallon Horizontal Compressed Air Storage Tank, ASME .....	3,696.06	288.38
22 15 13 00-0113	EA		325 Gallon Horizontal Compressed Air Storage Tank, ASME .....	5,312.05	305.35
22 15 13 00-0114	EA		400 Gallon Horizontal Compressed Air Storage Tank, ASME .....	6,985.82	356.24
22 15 13 00-0115	EA		660 Gallon Horizontal Compressed Air Storage Tank, ASME .....	10,024.57	424.09

**22 15 13 00-0116 Vertical Compressed Air Storage Tanks (22 15 13 00-0102)**

22 15 13 00-0117	EA		10 Gallon Vertical Compressed Air Storage Tank, ASME .....	739.51	108.57
22 15 13 00-0118	EA		15 Gallon Vertical Compressed Air Storage Tank, ASME .....	777.28	118.74
22 15 13 00-0119	EA		20 Gallon Vertical Compressed Air Storage Tank, ASME .....	841.73	124.85
22 15 13 00-0120	EA		30 Gallon Vertical Compressed Air Storage Tank, ASME .....	992.30	135.71
22 15 13 00-0121	EA		60 Gallon Vertical Compressed Air Storage Tank, ASME .....	1,355.44	183.20
22 15 13 00-0122	EA		80 Gallon Vertical Compressed Air Storage Tank, ASME .....	1,556.35	203.56
22 15 13 00-0123	EA		120 Gallon Vertical Compressed Air Storage Tank, ASME .....	2,132.65	237.49
22 15 13 00-0124	EA		200 Gallon Vertical Compressed Air Storage Tank, ASME .....	3,095.50	271.42
22 15 13 00-0125	EA		240 Gallon Vertical Compressed Air Storage Tank, ASME .....	3,411.52	288.38
22 15 13 00-0126	EA		325 Gallon Vertical Compressed Air Storage Tank, ASME .....	4,615.56	305.35
22 15 13 00-0127	EA		400 Gallon Vertical Compressed Air Storage Tank, ASME .....	5,904.88	356.24
22 15 13 00-0128	EA		500 Gallon Vertical Compressed Air Storage Tank, ASME .....	7,679.15	390.16
22 15 13 00-0129	EA		660 Gallon Vertical Compressed Air Storage Tank, ASME .....	12,705.19	441.05

**22 15 19 General Service Packaged Air Compressors and Receivers (22 15)**

Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.

**22 15 19 13 General Service Packaged Reciprocating Air Compressors (22 15 19)**

**22 15 19 13-0001 Single Stage Compressor (22 15 19 13)**

Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.

22 15 19 13-0002	EA		1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	3,134.46	481.49
22 15 19 13-0003	EA		3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	3,293.30	555.73
22 15 19 13-0004	EA		1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	3,765.83	656.28
22 15 19 13-0005	EA		2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	4,282.10	724.14
22 15 19 13-0006	EA		3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	5,195.73	764.85
22 15 19 13-0007	EA		3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure .....	5,542.63	792.00
22 15 19 13-0008	EA		5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure .....	6,229.60	905.17
22 15 19 13-0009	EA		5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure .....	6,677.87	959.45
22 15 19 13-0010	EA		7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure .....	7,989.52	1,086.21

**22 15 19 13-0011 Two Stage Compressor (22 15 19 13)**

Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted.

22 15 19 13-0012	EA		1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure .....	5,967.29	846.28
22 15 19 13-0013	EA		2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure .....	6,436.49	995.69
22 15 19 13-0014	EA		3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure .....	6,743.67	1,086.21
22 15 19 13-0015	EA		5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure .....	7,772.86	1,448.28
22 15 19 13-0016	EA		5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure .....	8,340.35	1,448.28
22 15 19 13-0017	EA		7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure .....	9,043.69	1,810.35
22 15 19 13-0018	EA		7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure .....	9,558.39	1,810.35
22 15 19 13-0019	EA		10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure .....	12,235.03	2,239.19
22 15 19 13-0020	EA		10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure .....	13,158.74	2,307.05
22 15 19 13-0021	EA		15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure .....	14,207.09	2,696.26
22 15 19 13-0022	EA		20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure .....	21,064.87	3,052.09
22 15 19 13-0023	EA		25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure .....	22,687.54	3,448.76
22 15 19 13-0024	EA		30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure .....	25,275.61	3,811.65
22 15 19 13-0025	EA		30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure .....	27,507.59	4,177.38

**22 15 19 19 General Service Packaged Rotary-Screw Air Compressors (22 15 19)**

**22 15 19 19-0001 Rotary Screw Air Compressor, Base Mounted Without Receiver (22 15 19 19)**

Note: Oil flooded.

22 15 19 19-0002	EA		3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated .....	10,120.88	1,222.36
22 15 19 19-0003	EA		5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated .....	11,380.28	1,629.82
22 15 19 19-0004	EA		7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	14,574.42	2,043.40
22 15 19 19-0005	EA		10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	16,953.12	2,604.03
22 15 19 19-0006	EA		15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	19,405.54	3,063.56
22 15 19 19-0007	EA		20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	23,468.07	3,446.51
22 15 19 19-0008	EA		25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	25,743.67	3,829.45
22 15 19 19-0009	EA		30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	30,840.92	4,288.99
22 15 19 19-0010	EA		40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	33,863.37	4,595.34
22 15 19 19-0011	EA		50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	37,947.09	4,952.25
22 15 19 19-0012	EA		60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	48,980.60	5,361.23
22 15 19 19-0013	EA		75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	54,259.81	5,667.59
22 15 19 19-0014	EA		100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated .....	86,179.77	6,127.12



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>General Service Compressed-Air Systems</b>	<b>22 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 19 19-0015 EA 125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	107,200.92	6,624.95
22 15 19 19-0016 EA 150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	124,350.39	7,130.44
22 15 19 19-0017 EA 220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	161,280.81	7,658.90
22 15 19 19-0018 EA 250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	183,072.13	8,149.08
<b>22 15 19 19-0019 Rotary Screw Air Compressor, Base Mounted With Receiver</b> <sup>(22 15 19 19)</sup> Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.		
22 15 19 19-0020 EA 5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....	12,665.71	1,629.82
22 15 19 19-0021 EA 5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....	13,425.89	1,629.82
22 15 19 19-0022 EA 7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	15,178.86	2,043.40
22 15 19 19-0023 EA 7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	16,010.31	2,043.40
22 15 19 19-0024 EA 10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	17,285.70	2,604.03
22 15 19 19-0025 EA 10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	18,164.65	2,604.03
22 15 19 19-0026 EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	19,680.05	3,063.56
22 15 19 19-0027 EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	20,630.27	3,063.56
22 15 19 19-0028 EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	33,477.05	3,446.51
22 15 19 19-0029 EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	36,108.98	3,829.45
22 15 19 19-0030 EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	38,503.38	4,288.99

**22 30 Plumbing Equipment** <sup>(22)</sup>

**22 31 Domestic Water Softeners** <sup>(22 30)</sup>

**22 31 16 Commercial Domestic Water Softeners** <sup>(22 31)</sup>

22 31 16 00-0001 Commercial Water Softeners (Watts Pure Water) <sup>(22 31 16)</sup>

22 31 16 00-0002 Commercial Water Softeners (Watts Pure Water) <sup>(22 31 16 00-0001)</sup>

22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <sup>(22 31 16</sup>

<sup>00-0002)</sup>

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11).....	5,283.44	387.70
22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11).....	5,522.59	405.32
22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11).....	5,959.09	422.94
22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11).....	6,853.85	440.56
22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11).....	7,303.51	458.19

22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <sup>(22</sup>

<sup>31 16 00-0002)</sup>

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11).....	7,895.19	422.94
22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11).....	8,303.18	440.56
22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11).....	8,755.03	458.19
22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11).....	10,395.29	475.81
22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11).....	11,550.95	493.44
22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11).....	14,052.91	511.05

22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <sup>(22 31 16</sup>

<sup>00-0002)</sup>

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11) .....	11,964.87	440.56
22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11) .....	12,401.38	458.19
22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11) .....	14,046.02	475.81
22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11) .....	15,201.68	493.44
22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11) .....	17,839.58	511.05
22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11) .....	23,512.07	528.68
22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11) .....	27,496.25	546.30
<b>22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0002)</b> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11) .....	28,855.36	511.05
22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11) .....	33,328.48	528.68
22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11) .....	37,260.03	546.30
22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11) .....	46,896.80	563.93
22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11) .....	51,922.47	581.54
<b>22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)</b>		
<b>22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030)</b> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21) .....	19,630.16	660.84
22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21) .....	20,500.87	687.28
22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21) .....	23,336.19	713.72
22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21) .....	25,509.33	740.15
22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21) .....	31,122.70	766.58
22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I21) .....	41,204.66	793.02
22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21) .....	48,484.44	819.45
<b>22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030)</b> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21) .....	52,970.07	766.58
22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I21) .....	60,841.86	793.02
22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21) .....	68,365.02	819.45
22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21) .....	86,965.34	845.88
22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21) .....	97,088.95	872.32
<b>22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)</b>		
<b>22 31 16 00-0046 1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0045)</b> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0047 EA 30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21) .....	6,956.02	581.54
22 31 16 00-0048 EA 45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21) .....	7,416.72	607.98
22 31 16 00-0049 EA 60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21) .....	8,085.71	634.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0050 EA 90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21).....	9,690.97	660.84
22 31 16 00-0051 EA 120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21) .....	10,712.97	687.28
<b>22 31 16 00-0052 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0045)</b>		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0053 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21) .....	13,551.93	634.42
22 31 16 00-0054 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21) .....	14,288.91	660.84
22 31 16 00-0055 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21) .....	15,376.70	687.28
22 31 16 00-0056 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21) .....	17,591.50	713.72
22 31 16 00-0057 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21) .....	19,839.19	740.15
22 31 16 00-0058 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21) .....	24,818.89	766.58

**22 32 Domestic Water Filtration Equipment (22 30)**

**22 32 16 Domestic-Water Freestanding Cartridge Filters (22 32)**

22 32 16 00-0001 Commercial Water Filters Housings (22 32 16)		
22 32 16 00-0002 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0001)		
22 32 16 00-0003 Commercial Multi-Cartridge Stainless Steel Water Filter Housings (22 32 16 00-0002)		
22 32 16 00-0004 EA 25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1) .....	2,745.28	248.91
22 32 16 00-0005 EA 30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1) .....	2,803.30	268.06
22 32 16 00-0006 EA 60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2) .....	2,984.12	287.21
22 32 16 00-0007 EA 90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3) .....	3,300.87	306.36
22 32 16 00-0008 EA 120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4) .....	3,402.76	325.50
22 32 16 00-0009 EA 150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4) .....	4,112.00	344.65
22 32 16 00-0010 EA 250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3) .....	11,399.13	363.80
22 32 16 00-0011 EA 300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4) .....	13,250.73	382.95
22 32 16 00-0012 EA 500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3) .....	16,801.61	402.09
22 32 16 00-0013 EA 600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4) .....	18,631.29	421.24

**22 32 16 00-0014 Commercial Water Filter Cartridges (22 32 16 00-0002)**

22 32 16 00-0015 (Depth) Water Filter Cartridges (22 32 16 00-0014)		
22 32 16 00-0016 EA 50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50) .....	14.34	3.07
22 32 16 00-0017 EA 20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20) .....	14.34	3.07
22 32 16 00-0018 EA 10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10) .....	14.34	3.07
22 32 16 00-0019 EA 5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5) .....	12.15	3.07
22 32 16 00-0020 EA 1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1) .....	14.89	3.07
22 32 16 00-0021 EA 50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50) .....	14.89	3.07
22 32 16 00-0022 EA 20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20) .....	15.99	3.07
22 32 16 00-0023 EA 5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Big Pure Water PWMB20M5) .....	19.82	3.07
22 32 16 00-0024 EA 1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1) .....	15.99	3.07
22 32 16 00-0025 EA 50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50) .....	18.73	3.07
22 32 16 00-0026 EA 20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20) .....	18.73	3.07
22 32 16 00-0027 EA 5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5) .....	18.73	3.07
22 32 16 00-0028 EA 1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1) .....	20.37	3.07
22 32 16 00-0029 EA 50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50) .....	26.40	3.07
22 32 16 00-0030 EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20) .....	24.21	3.07
22 32 16 00-0031 EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5) .....	24.21	3.07
22 32 16 00-0032 EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1) .....	26.40	3.07

**22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)**

22 32 16 00-0034 EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50) .....	24.76	3.07
22 32 16 00-0035 EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20) .....	24.76	3.07
22 32 16 00-0036 EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5) .....	25.31	3.07
22 32 16 00-0037 EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1) .....	26.95	3.07
22 32 16 00-0038 EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB) .....	40.11	3.07

**22 Plumbing****22 30 Plumbing Equipment****22 32 Domestic Water Filtration Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 32 16 00-0039 EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50).....	38.46	3.07
22 32 16 00-0040 EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20).....	38.46	3.07
22 32 16 00-0041 EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5).....	38.46	3.07
22 32 16 00-0042 EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1).....	50.52	3.07
22 32 16 00-0043 EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB).....	71.35	3.07
22 32 16 00-0044 EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50).....	59.84	3.07
22 32 16 00-0045 EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20).....	82.86	3.07
22 32 16 00-0046 EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5).....	86.15	3.07
22 32 16 00-0047 EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1).....	97.11	3.07
<b>22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)</b>		
<b>22 32 16 00-0049 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0048)</b>		
22 32 16 00-0050 EA 150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG).....	2,170.88	229.77
<b>22 32 16 00-0051 Commercial Water Filter Cartridges (22 32 16 00-0048)</b>		
<b>22 32 16 00-0052 Carbon Water Filter Cartridges (22 32 16 00-0051)</b>		
22 32 16 00-0053 EA Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5).....	689.12	3.07
<b>22 32 16 00-0054 (Depth) Water Filter Cartridges (22 32 16 00-0051)</b>		
22 32 16 00-0055 EA 50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB50).....	143.71	3.07
22 32 16 00-0056 EA 20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB20).....	142.61	3.07
22 32 16 00-0057 EA 5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB5).....	142.61	3.07
22 32 16 00-0058 EA 1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB1).....	163.44	3.07
<b>22 32 16 00-0059 Pleated Water Filter Cartridges (22 32 16 00-0051)</b>		
22 32 16 00-0060 EA 150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150).....	378.87	3.07
22 32 16 00-0061 EA 50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50).....	355.84	3.07
22 32 16 00-0062 EA 20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20).....	387.64	3.07
22 32 16 00-0063 EA 5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5).....	406.28	3.07
22 32 16 00-0064 EA 1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1).....	432.59	3.07
22 32 16 00-0065 EA 1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB).....	468.76	3.07
<b>22 33 Electric Domestic Water Heaters (22 30)</b>		
<b>22 33 13 Instantaneous Electric Domestic Water Heaters (22 33)</b>		
<b>22 33 13 13 Flow-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)</b>		
<b>22 33 13 13-0001 Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 13)</b>		
22 33 13 13-0002 EA 3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....	640.29	76.57
22 33 13 13-0003 EA 7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RP7P).....	645.62	76.57
<b>22 33 13 16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)</b>		
<b>22 33 13 16-0001 Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 16)</b>		
Note: Temperature rise decreases with increased flow rate.		
22 33 13 16-0002 EA 3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T).....	851.89	114.85
22 33 13 16-0003 EA 12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....	840.18	153.13
22 33 13 16-0004 EA 17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....	1,426.05	267.98
22 33 13 16-0005 EA 26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....	2,125.66	306.27
22 33 13 16-0006 EA 12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 12 Plus).....	1,716.39	153.13
22 33 13 16-0007 EA 14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 15 Plus).....	2,347.71	229.70
22 33 13 16-0008 EA 19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 20 Plus).....	2,593.21	306.27
22 33 13 16-0009 EA 24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 24 Plus).....	2,691.02	306.27
22 33 13 16-0010 EA 28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 29 Plus).....	2,783.40	306.27
22 33 13 16-0011 EA 36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 36 Plus).....	2,919.25	306.27
<b>22 33 30 Residential, Electric Domestic Water Heaters (22 33)</b>		
<b>22 33 30 13 Residential, Small-Capacity Electric Domestic Water Heaters (22 33 30)</b>		



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Equipment</b>	<b>22 30</b>	
<b>Electric Domestic Water Heaters</b>	<b>22 33</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 33 30 13-0001</b> <b>Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax)</b> <small>(22 33 30)</small>		
<small><sup>13)</sup> Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.</small>		
22 33 30 13-0002    EA    2 Gallon, Small-Capacity, Electric Domestic Water Heater .....	1,199.50	241.18
22 33 30 13-0003    EA    10 Gallon, Small-Capacity, Electric Domestic Water Heater .....	1,469.22	256.50
22 33 30 13-0004    EA    20 Gallon, Small-Capacity, Electric Domestic Water Heater .....	1,731.29	267.98
 <b>22 33 30 16</b> <b>Residential, Storage Electric Domestic Water Heaters</b> <small>(22 33 30)</small>		
<b>22 33 30 16-0001</b> <b>Electric Domestic Water Heaters (A.O. Smith ProMax)</b> <small>(22 33 30 16)</small>		
<small>Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.</small>		
22 33 30 16-0002    EA    30 Gallon, Electric Domestic Water Heater .....	1,848.15	267.98
22 33 30 16-0003    EA    40 Gallon, Electric Domestic Water Heater .....	1,740.63	275.64
22 33 30 16-0004    EA    50 Gallon, Electric Domestic Water Heater .....	1,714.10	283.30
22 33 30 16-0005    EA    55 Gallon, Electric Domestic Water Heater .....	1,910.79	287.12
22 33 30 16-0006    EA    66 Gallon, Electric Domestic Water Heater .....	2,765.17	294.78
22 33 30 16-0007    EA    80 Gallon, Electric Domestic Water Heater .....	2,818.03	306.27
22 33 30 16-0008    EA    120 Gallon, Electric Domestic Water Heater .....	3,741.42	325.41
 <b>22 33 30 16-0009</b> <b>Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax)</b> <small>(22 33 30 16)</small>		
<small>Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.</small>		
22 33 30 16-0010    EA    30 Gallon, Low-Boy, Electric Domestic Water Heater .....	1,982.34	267.98
22 33 30 16-0011    EA    40 Gallon, Low-Boy, Electric Domestic Water Heater .....	1,890.07	275.64
22 33 30 16-0012    EA    50 Gallon, Low-Boy, Electric Domestic Water Heater .....	2,001.02	283.30
 <b>22 33 30 16-0013</b> <b>High Efficiency, Electric Domestic Water Heaters (A.O. Smith Conservationist)</b> <small>(22 33 30 16)</small>		
<small>Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.</small>		
22 33 30 16-0014    EA    40 Gallon, High Efficiency, Electric Domestic Water Heater .....	2,046.83	275.64
22 33 30 16-0015    EA    50 Gallon, High Efficiency, Electric Domestic Water Heater .....	2,234.14	283.30
22 33 30 16-0016    EA    66 Gallon, High Efficiency, Electric Domestic Water Heater .....	2,744.10	294.78
22 33 30 16-0017    EA    80 Gallon, High Efficiency, Electric Domestic Water Heater .....	2,982.26	306.27
 <b>22 33 30 16-0018</b> <b>Water Heater Accessories</b> <small>(22 33 30 16)</small>		
22 33 30 16-0019    EA    2 Gallon, Expansion Pressure Tank For Water Heaters .....	156.30	15.31
22 33 30 16-0020    EA    4.4 Gallon, Expansion Pressure Tank For Water Heaters .....	184.34	15.31
22 33 30 16-0021    EA    7.6 Gallon, Expansion Pressure Tank For Water Heaters .....	357.56	15.31
22 33 30 16-0022    EA    14 Gallon, Expansion Pressure Tank For Water Heaters .....	479.47	15.31
22 33 30 16-0023    EA    20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan .....	80.39	11.49
22 33 30 16-0024    EA    22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan .....	87.31	11.49
22 33 30 16-0025    EA    24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan .....	91.92	11.49
22 33 30 16-0026    EA    26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan .....	108.06	11.49
22 33 30 16-0027    EA    22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan .....	45.68	11.49
22 33 30 16-0028    EA    24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan .....	49.37	11.49
22 33 30 16-0029    EA    26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan .....	54.56	11.49
22 33 30 16-0030    EA    28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan .....	61.23	11.49
 <b>22 33 30 23</b> <b>Residential, Collector-To-Tank, Solar-Electric Domestic Water Heaters</b> <small>(22 33 30)</small>		
<b>22 33 30 23-0001</b> <b>Solar Electric Domestic Water Heaters (A.O. Smith CIRREX)</b> <small>(22 33 30 23)</small>		
<small>Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.</small>		
22 33 30 23-0002    EA    80 Gallon, Solar Electric Domestic Water Heater .....	4,611.94	306.27
22 33 30 23-0003    EA    120 Gallon, Solar Electric Domestic Water Heater .....	5,524.02	325.41
 <b>22 33 33</b> <b>Light-Commercial Electric Domestic Water Heaters</b> <small>(22 33)</small>		
<b>22 33 33 00-0001</b> <b>Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE)</b> <small>(22 33 33)</small>		
<small>Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.</small>		
22 33 33 00-0002    EA    3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3) .....	5,550.70	267.98
22 33 33 00-0003    EA    3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3) .....	5,761.85	267.98
22 33 33 00-0004    EA    6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6) .....	5,990.60	267.98
22 33 33 00-0005    EA    3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3) .....	6,067.16	306.27
22 33 33 00-0006    EA    6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6) .....	6,331.10	306.27
22 33 33 00-0007    EA    9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9) .....	6,753.40	306.27
22 33 33 00-0008    EA    12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12) .....	7,034.94	306.27
22 33 33 00-0009    EA    15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15) .....	7,263.68	306.27
22 33 33 00-0010    EA    18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18) .....	7,510.02	306.27
22 33 33 00-0011    EA    6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6) .....	6,595.04	306.27
22 33 33 00-0012    EA    9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9) .....	6,841.38	306.27
22 33 33 00-0013    EA    12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12) .....	7,122.92	306.27
22 33 33 00-0014    EA    15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15) .....	7,351.66	306.27

**22 Plumbing****22 30 Plumbing Equipment****22 33 Electric Domestic Water Heaters**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

22 33 33 00-0015	EA	18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18)	7,598.00	306.27
22 33 33 00-0016	EA	24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24)	9,410.38	306.27
22 33 33 00-0017	EA	9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9)	7,223.27	382.83
22 33 33 00-0018	EA	12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12)	7,452.01	382.83
22 33 33 00-0019	EA	15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15)	7,733.55	382.83
22 33 33 00-0020	EA	18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18)	7,979.89	382.83
22 33 33 00-0021	EA	24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24)	9,809.86	382.83
22 33 33 00-0022	EA	30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30)	10,654.47	382.83
22 33 33 00-0023	EA	36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36)	11,481.48	382.83
22 33 33 00-0024	EA	9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9)	8,361.77	459.39
22 33 33 00-0025	EA	12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12)	8,590.51	459.39
22 33 33 00-0026	EA	15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15)	8,819.26	459.39
22 33 33 00-0027	EA	18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18)	9,065.60	459.39
22 33 33 00-0028	EA	24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24)	10,948.37	459.39
22 33 33 00-0029	EA	30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30)	11,792.97	459.39
22 33 33 00-0030	EA	36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36)	12,619.98	459.39
22 33 33 00-0031	EA	45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45)	14,115.63	459.39
22 33 33 00-0032	EA	54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54)	14,784.27	459.39
22 33 33 00-0033	EA	60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60)	17,106.93	459.39
22 33 33 00-0034	EA	75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75)	20,098.23	459.39
22 33 33 00-0035	EA	90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90)	25,130.66	459.39
22 33 33 00-0036	EA	9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9)	9,477.44	612.52
22 33 33 00-0037	EA	12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12)	9,741.38	612.52
22 33 33 00-0038	EA	15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15)	9,987.72	612.52
22 33 33 00-0039	EA	18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18)	10,198.87	612.52
22 33 33 00-0040	EA	24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24)	12,064.04	612.52
22 33 33 00-0041	EA	30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30)	12,908.64	612.52
22 33 33 00-0042	EA	36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36)	13,718.05	612.52
22 33 33 00-0043	EA	45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45)	15,248.89	612.52
22 33 33 00-0044	EA	54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54)	15,899.94	612.52
22 33 33 00-0045	EA	60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60)	18,240.20	612.52
22 33 33 00-0046	EA	75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75)	21,249.10	612.52
22 33 33 00-0047	EA	90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90)	26,263.93	612.52
22 33 33 00-0048	EA	12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12)	10,598.34	689.09
22 33 33 00-0049	EA	15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15)	10,844.69	689.09
22 33 33 00-0050	EA	18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18)	11,055.84	689.09
22 33 33 00-0051	EA	24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24)	12,938.60	689.09
22 33 33 00-0052	EA	30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30)	13,695.22	689.09
22 33 33 00-0053	EA	36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36)	14,575.02	689.09
22 33 33 00-0054	EA	45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45)	16,105.86	689.09
22 33 33 00-0055	EA	54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54)	16,774.50	689.09
22 33 33 00-0056	EA	60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60)	18,973.99	689.09
22 33 33 00-0057	EA	75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75)	22,106.06	689.09
22 33 33 00-0058	EA	90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90)	27,120.89	689.09
22 33 33 00-0059	EA	15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15)	11,912.80	765.66
22 33 33 00-0060	EA	18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18)	12,194.34	765.66
22 33 33 00-0061	EA	24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24)	14,024.31	765.66
22 33 33 00-0062	EA	30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30)	14,868.91	765.66
22 33 33 00-0063	EA	36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36)	15,695.92	765.66
22 33 33 00-0064	EA	45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45)	17,191.57	765.66
22 33 33 00-0065	EA	54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54)	17,877.81	765.66
22 33 33 00-0066	EA	60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60)	20,182.88	765.66
22 33 33 00-0067	EA	75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75)	23,174.18	765.66
22 33 33 00-0068	EA	90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90)	28,224.20	765.66
22 33 33 00-0069	EA	15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15)	12,852.53	918.79
22 33 33 00-0070	EA	18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18)	13,098.87	918.79
22 33 33 00-0071	EA	24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24)	14,928.84	918.79
22 33 33 00-0072	EA	30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30)	15,738.25	918.79
22 33 33 00-0073	EA	36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36)	16,600.45	918.79
22 33 33 00-0074	EA	45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45)	18,096.10	918.79
22 33 33 00-0075	EA	54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54)	18,729.56	918.79
22 33 33 00-0076	EA	60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60)	21,105.00	918.79
22 33 33 00-0077	EA	75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75)	24,113.90	918.79
22 33 33 00-0078	EA	90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90)	29,111.14	918.79

**22 33 33 00-0079 Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN)** (22 33 33)

Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.

22 33 33 00-0080	EA	Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S)	1,626.82	267.98
22 33 33 00-0081	EA	Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S)	1,737.67	267.98
22 33 33 00-0082	EA	Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S)	1,896.93	306.27
22 33 33 00-0083	EA	Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D)	3,163.84	306.27
22 33 33 00-0084	EA	Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D)	3,668.90	382.83
22 33 33 00-0085	EA	Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D)	4,085.96	459.39
22 33 33 00-0086	EA	Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D)	4,964.14	689.09

**22 33 33 00-0087 Water Heater Accessories** (22 33 33)

22 33 33 00-0088	EA	Up To 80 Gallon Water Heater Strap	53.35	
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Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carriage Bolts (2) 3/8" Hex Nuts





<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Equipment</b>	<b>22 30</b>	
<b>Electric Domestic Water Heaters</b>	<b>22 33</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 33 00-0089 EA >80 To 120 Gallon Water Heater Strap ..... Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carraige Bolts (2) 3/8" Hex Nuts	76.99	
<b>22 33 33 00-0090 Removal And Reinstallation Of Water Heater (22 33 33)</b> Note: Includes storage and cleaning.		
22 33 33 00-0091 EA Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon .....	510.43	
22 33 33 00-0092 EA Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon .....	1,531.31	
<b>22 34 Fuel-Fired Domestic Water Heaters (22 30)</b>		
<b>22 34 13 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34)</b>		
<b>22 34 13 00-0001 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13)</b>		
<b>22 34 13 00-0002 Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13)</b> <small>00-0001</small> Note: Includes vent connection. Excludes vent.		
22 34 13 00-0003 EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN) .....	2,589.55	306.27
22 34 13 00-0004 EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN) .....	2,804.32	310.09
22 34 13 00-0005 EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVN) .....	3,083.24	317.75
22 34 13 00-0006 EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN) .....	3,606.63	325.41
22 34 13 00-0007 EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN) .....	4,383.30	344.54
22 34 13 00-0008 EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN) .....	4,477.45	344.54
<b>22 34 13 00-0009 Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34)</b> <small>13 00-0001</small>		
22 34 13 00-0010 EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN) .....	2,796.66	306.27
22 34 13 00-0011 EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN) .....	4,383.30	344.54
<b>22 34 30 Residential Gas Domestic Water Heaters (22 34)</b>		
<b>22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters (22 34 30)</b>		
<b>22 34 30 13-0001 Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 13)</b> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 13-0002 EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30) .....	1,934.32	294.78
22 34 30 13-0003 EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40) .....	1,898.83	302.44
22 34 30 13-0004 EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50) .....	2,532.80	310.09
22 34 30 13-0005 EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65) .....	2,742.52	317.75
22 34 30 13-0006 EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75) .....	2,996.79	325.41
22 34 30 13-0007 EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100) .....	4,442.90	344.54
<b>22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters (22 34 30)</b>		
<b>22 34 30 16-0001 Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 16)</b> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 16-0002 EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40) .....	3,556.51	302.44
22 34 30 16-0003 EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50) .....	4,057.04	310.09
22 34 30 16-0004 EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75) .....	5,283.52	317.75
<b>22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters (22 34 30)</b>		
<b>22 34 30 19-0001 Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) (22 34 30 19)</b> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 19-0002 EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40) .....	3,228.80	302.44
22 34 30 19-0003 EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50) .....	3,363.66	310.09
<b>22 34 36 Commercial Gas Domestic Water Heaters (22 34)</b>		
<b>22 34 36 13 Commercial, Atmospheric, Gas Domestic Water Heaters (22 34 36)</b>		
<b>22 34 36 13-0001 Gas Fired Commercial Water Heaters (A.O. Smith BTR) (22 34 36 13)</b> Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 13-0002 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120) .....	6,779.72	459.39
22 34 36 13-0003 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154) .....	7,257.66	535.96
22 34 36 13-0004 EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180) .....	8,957.17	612.52
22 34 36 13-0005 EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199) .....	7,785.03	612.52
22 34 36 13-0006 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200) .....	8,909.29	612.52
22 34 36 13-0007 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A) .....	11,816.88	673.78
22 34 36 13-0008 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250) .....	8,671.11	689.09

**22 Plumbing****22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 13-0009 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A).....	12,743.08	758.00
22 34 36 13-0010 EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251) .....	8,801.01	689.09
22 34 36 13-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A).....	12,170.89	758.00
22 34 36 13-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275) .....	9,787.72	842.22
22 34 36 13-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A).....	13,358.33	926.45
22 34 36 13-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305) .....	10,963.01	842.22
22 34 36 13-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A).....	13,435.65	926.45
22 34 36 13-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365) .....	10,652.27	918.79
22 34 36 13-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A).....	14,825.78	1,010.67
22 34 36 13-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400) .....	13,420.34	918.79
22 34 36 13-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A).....	17,485.65	1,010.67
22 34 36 13-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500) .....	17,408.64	995.36
22 34 36 13-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151) .....	8,711.26	535.96
22 34 36 13-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A) .....	10,426.74	589.55
22 34 36 13-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201) .....	9,080.89	612.52
22 34 36 13-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A) .....	10,858.09	673.78
22 34 36 13-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200 .....	2,312.02	382.83
22 34 36 13-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500 .....	2,513.06	382.83
<b>22 34 36 13-0027 Removal And Reinstallation Of Water Heater (22 34 36 13)</b> Note: Includes storage and cleaning.		
22 34 36 13-0028 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon .....	696.06	
22 34 36 13-0029 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon .....	1,840.52	
<b>22 34 36 19 Commercial, Power-Vent, Gas Domestic Water Heaters (22 34 36)</b>		
<b>22 34 36 19-0001 Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN) (22 34 36 19)</b> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0002 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100).....	5,558.03	459.39
22 34 36 19-0003 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120) .....	7,862.23	459.39
22 34 36 19-0004 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154) .....	9,577.26	535.96
22 34 36 19-0005 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180) .....	9,993.29	612.52
22 34 36 19-0006 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199) .....	10,039.68	612.52
22 34 36 19-0007 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200) .....	10,256.18	612.52
22 34 36 19-0008 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A) .....	12,017.92	673.78
22 34 36 19-0009 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250) .....	11,321.71	689.09
22 34 36 19-0010 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A) .....	13,887.44	758.00
22 34 36 19-0011 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275) .....	11,921.81	842.22
22 34 36 19-0012 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A) .....	14,564.55	926.45
22 34 36 19-0013 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310) .....	12,169.24	842.22
22 34 36 19-0014 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A) .....	14,719.19	926.45
22 34 36 19-0015 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366) .....	13,636.84	918.79
22 34 36 19-0016 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A) .....	16,001.07	1,010.67
22 34 36 19-0017 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400) .....	16,435.90	918.79
22 34 36 19-0018 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A) .....	18,939.31	1,010.67
<b>22 34 36 19-0019 Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH) (22 34 36 19)</b> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0020 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80) .....	4,351.81	459.39
22 34 36 19-0021 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100) .....	5,774.53	459.39
22 34 36 19-0022 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120) .....	6,949.83	459.39
22 34 36 19-0023 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A) .....	9,949.02	505.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 19-0024 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150).....	10,195.84	535.96
22 34 36 19-0025 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A).....	12,823.73	589.55
22 34 36 19-0026 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199).....	10,379.90	612.52
22 34 36 19-0027 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A).....	13,239.61	673.78
22 34 36 19-0028 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250).....	11,986.68	689.09
22 34 36 19-0029 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A).....	14,552.41	758.00
22 34 36 19-0030 EA 300 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A).....	19,018.30	926.45
22 34 36 19-0031 EA 399.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A).....	20,006.35	1,010.67
22 34 36 19-0032 EA 499.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A).....	22,989.31	1,094.89
 <b>22 34 36 23 Commercial, High-Efficiency, Gas Domestic Water Heaters (22 34 36)</b>		
<b>22 34 36 23-0001 Gas Fired Domestic Hot Water Skid Package (Laars Mighty Therm) (22 34 36 23)</b>		
Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations.		
22 34 36 23-0002 EA 400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400).....	95,285.98	1,909.62
22 34 36 23-0003 EA 1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000).....	115,186.86	2,028.97
22 34 36 23-0004 EA 2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000).....	139,932.29	2,148.32
22 34 36 23-0005 EA 3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000).....	167,258.26	2,267.67
22 34 36 23-0006 EA 4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000).....	175,315.05	2,387.02
 <b>22 34 36 23-0007 Gas Fired Volume Water Heater (Laars Mighty Therm) (22 34 36 23)</b>		
22 34 36 23-0008 EA 200 MBH Gas Fired Volume Water Heater (Laars MT2V0200).....	12,151.17	1,128.31
22 34 36 23-0009 EA 300 MBH Gas Fired Volume Water Heater (Laars MT2V0300).....	13,196.29	1,269.35
22 34 36 23-0010 EA 400 MBH Gas Fired Volume Water Heater (Laars MT2V0400).....	15,303.33	1,551.43
22 34 36 23-0011 EA 500 MBH Gas Fired Volume Water Heater (Laars MT2V0500).....	22,138.44	1,692.47
22 34 36 23-0012 EA 750 MBH Gas Fired Volume Water Heater (Laars MT2V0750).....	24,381.73	1,974.55
22 34 36 23-0013 EA 1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000).....	27,889.09	2,256.63
22 34 36 23-0014 EA 1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250).....	30,822.07	2,538.70
22 34 36 23-0015 EA 1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500).....	36,788.39	2,820.78
22 34 36 23-0016 EA 1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750).....	38,183.60	2,961.82
22 34 36 23-0017 EA 2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000).....	40,941.41	3,102.86
 <b>22 34 36 26 Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters (22 34 36)</b>		
<b>22 34 36 26-0001 Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters (22 34 36 26)</b>		
22 34 36 26-0002 EA 1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+).....	37,903.26	2,143.80
22 34 36 26-0003 EA 1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+).....	53,223.61	2,369.45
22 34 36 26-0004 EA 2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+).....	57,710.34	2,482.28
22 34 36 26-0005 EA 2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+).....	62,515.87	2,707.95
 <b>22 34 36 26-0006 Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters (22 34 36 26)</b>		
22 34 36 26-0007 EA 1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos).....	33,728.93	2,143.80
22 34 36 26-0008 EA 1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos).....	37,262.20	2,369.45
22 34 36 26-0009 EA 2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos).....	40,684.20	2,482.28
22 34 36 26-0010 EA 2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos).....	44,207.90	2,707.95
 <b>22 34 36 26-0011 Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters (22 34 36 26)</b>		
22 34 36 26-0012 EA 200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	8,883.99	1,015.48
22 34 36 26-0013 EA 300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	9,779.05	1,128.31
22 34 36 26-0014 EA 400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	11,498.93	1,353.97
22 34 36 26-0015 EA 500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	15,977.12	1,410.39
22 34 36 26-0016 EA 750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	17,668.82	1,692.47
22 34 36 26-0017 EA 1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	21,763.53	2,030.97
22 34 36 26-0018 EA 1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	24,660.35	2,143.80
22 34 36 26-0019 EA 1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	27,303.92	2,313.04
22 34 36 26-0020 EA 1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	29,756.96	2,425.87
22 34 36 26-0021 EA 2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	31,879.01	2,482.28
 <b>22 34 36 26-0022 Patterson Kelley Thermific Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters (22 34 36 26)</b>		

**22 Plumbing****22 30 Plumbing Equipment****22 34 Fuel-Fired Domestic Water Heaters**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 26-0023 EA 700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific).....	24,670.83	1,692.47
22 34 36 26-0024 EA 1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific).....	27,291.84	2,030.97
22 34 36 26-0025 EA 1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific).....	32,608.82	2,313.04
22 34 36 26-0026 EA 1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific).....	33,635.57	2,425.87
22 34 36 26-0027 EA 2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific).....	35,154.62	2,482.28
<b>22 34 36 26-0028 Patterson Kelley Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters (22 34 36 26)</b>		
22 34 36 26-0029 EA 1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire).....	29,669.37	2,030.97
22 34 36 26-0030 EA 1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire).....	35,763.67	2,313.04
22 34 36 26-0031 EA 2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire).....	37,977.20	2,482.28
<b>22 34 46 Oil-Fired Domestic Water Heaters (22 34)</b>		
<b>22 34 46 11 Standard-capacity, Oil-Fired Domestic Water Heaters (22 34 46)</b>		
<b>22 34 46 11-0001 Oil-Fired Domestic Water Heaters (Bock) (22 34 46 11)</b>		
Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 11-0002 EA 60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E).....	2,310.80	235.82
22 34 46 11-0003 EA 104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E).....	2,280.57	235.82
22 34 46 11-0004 EA 104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES).....	2,377.70	235.82
22 34 46 11-0005 EA 125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E).....	2,508.77	241.94
22 34 46 11-0006 EA 140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES).....	3,174.68	248.08
22 34 46 11-0007 EA 152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E).....	2,694.37	248.08
<b>22 34 46 11-0008 Oil Fired Commercial Water Heaters (22 34 46 11)</b>		
Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 11-0009 EA 173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Bock 71E).....	3,741.09	367.51
22 34 46 11-0010 EA 199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 72E).....	4,373.44	367.51
22 34 46 11-0011 EA 242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 73E).....	4,397.77	367.51
22 34 46 11-0012 EA 190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E).....	6,321.88	490.02
22 34 46 11-0013 EA 415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E).....	8,653.50	612.52
22 34 46 11-0014 EA 623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E).....	10,862.40	673.78
<b>22 35 Domestic Water Heat Exchangers (22 30)</b>		
<b>22 35 23 Circulating, Domestic Water Heat Exchangers (22 35)</b>		
<b>22 35 23 13 Circulating, Compact Domestic Water Heat Exchangers (22 35 23)</b>		
<b>22 35 23 13-0001 Steam Driven Water Heaters (22 35 23 13)</b>		
<b>22 35 23 13-0002 Constant Flow (22 35 23 13-0001)</b>		
22 35 23 13-0003 EA 30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow.....	6,651.81	765.66
22 35 23 13-0004 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow.....	8,298.00	938.24
22 35 23 13-0005 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow.....	10,646.84	1,227.04
22 35 23 13-0006 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow.....	14,434.11	1,709.10
22 35 23 13-0007 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow.....	21,461.87	2,814.86
22 35 23 13-0008 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow.....	23,458.04	3,190.19
22 35 23 13-0009 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow.....	30,501.23	3,680.97
22 35 23 13-0010 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow.....	36,655.83	4,350.31
<b>22 35 23 13-0011 Variable Flow (22 35 23 13-0001)</b>		
22 35 23 13-0012 EA 30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow.....	10,210.24	1,493.03
22 35 23 13-0013 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow.....	11,645.05	1,823.02
22 35 23 13-0014 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow.....	14,872.60	2,357.30
22 35 23 13-0015 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow.....	19,614.34	3,288.96
22 35 23 13-0016 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow.....	29,600.71	5,500.47
22 35 23 13-0017 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow.....	35,669.14	6,057.42
22 35 23 13-0018 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow.....	41,359.02	7,089.37
22 35 23 13-0019 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow.....	52,090.88	8,469.70

**22 40 Plumbing Fixtures (22)**

Note: The following Energy Policy Act Flow Rates Requirements superseded flow rates standards listed in section. Plumbing fixtures and trim should not exceed the maximum flow rates set forth in The Energy Policy Act 92. lavatory faucets - 2.5 gal/min, lavatory replacement aerators - 2.5 gal/min, kitchen faucets - 2.5 gal/min, kitchen replacement aerators - 2.5 gal/min, metering faucets - 0.25 gal/cycle, gravity tank-type toilets - 1.6 gal/flush, flushometer tank toilets - 1.6 gal/flush, electromechanical hydraulic toilets - 1.6 gal/flush, blowdown toilets - 3.5 gal/flush, urinals - 1.0 gal/flush.



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Fixtures</b>	<b>22 40</b>	
<b>Residential Plumbing Fixtures</b>	<b>22 41</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**22 41 Residential Plumbing Fixtures** (22 40)

**22 41 39 Residential Faucets, Supplies, and Trim** (22 41)

**22 41 39 00-0001 Residential Kitchen Faucets** (22 41 39)

22 41 39 00-0002	EA	Chrome Single Handle Kitchen Faucet (Delta 100LF-WF) .....	208.27	70.49
22 41 39 00-0003	EA	Chrome Single Handle Kitchen Faucet With Spray (Delta 400LF-WF).....	234.73	70.49
22 41 39 00-0004	EA	Chrome Single Handle Kitchen Faucet With Integrated Spray (Delta 300LF-WF).....	234.73	70.49
22 41 39 00-0005	EA	Chrome Two Handle Kitchen Faucet, Three Hole Installation 8"Center (Delta 2102LF-LHP+H215).....	227.42	70.49
22 41 39 00-0006	EA	Chrome Two Handle Kitchen Faucet With Spray, Three Hole Installation, 8" Center (Delta 2402LF-LHP+H215) .....	241.64	70.49

**22 41 39 00-0007 Residential Lavatory Faucets** (22 41 39)

22 41 39 00-0008	EA	Chrome, Single Acrylic Handle, Bath Faucet (Delta 502-DST).....	182.94	50.75
		<i>For Faucet With Brass Pop-Up, Add</i>	11.00	
22 41 39 00-0009	EA	Chrome, Single Lever Handle, Lavatory Faucet (Delta 500-WF).....	182.94	50.75
		<i>For Faucet With Brass Pop-Up, Add</i>	11.00	
22 41 39 00-0010	EA	Chrome, Two Handle, Bath Faucet With Acrylic Handles (Delta 2502LF).....	139.42	50.75
		<i>For Faucet With Brass Pop-Up, Add</i>	16.50	
		<i>For Faucet With Plastic Pop-Up, Add</i>	14.00	

**22 41 39 00-0011 Residential Bath And Shower Faucets** (22 41 39)

22 41 39 00-0012	EA	Single Lever Handle, Chrome Shower Only, Pressure Balanced/Anti-Scald Valve (American Standard T675.501).....	235.51	61.19
		<i>For Faucet With Polished Nickel Or Brass Finish, Add</i>	25.00	
22 41 39 00-0013	EA	Single Lever Handle, Chrome Bath And Shower, Pressure Balanced/Anti-Scald Valve (American Standard T675.502).....	271.71	61.19
		<i>For Faucet With Polished Nickel Or Brass Finish, Add</i>	25.00	
22 41 39 00-0014	EA	Two-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3275).....	219.73	61.19
		<i>For Faucet With Polished Nickel Or Brass Finish, Add</i>	75.00	
		<i>For Faucet With Lever Handles, Add</i>	8.10	
22 41 39 00-0015	EA	Three-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3375).....	239.22	61.19
		<i>For Faucet With Polished Nickel Or Brass Finish, Add</i>	75.00	
		<i>For Faucet With Lever Handles, Add</i>	8.10	
22 41 39 00-0016	EA	Hand Shower With Hose And 25" Slide Bar (American Standard 1662.602).....	257.56	38.28
22 41 39 00-0017	EA	Wall Mount, Hand Shower With Hose (Delta 55011).....	218.80	38.28
22 41 39 00-0018	EA	Wall Mount, Hand Shower Unit With Hose (Delta Faucet 62001 DS).....	330.77	38.28

**22 41 39 00-0019 Residential Laundry Faucets** (22 41 39)

22 41 39 00-0020	EA	Stream Straightener Nozzle Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2123LF) .....	160.43	45.02
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**22 41 39 00-0021 Residential Laundry/Wash Basin Faucets** (22 41 39)

22 41 39 00-0022	EA	Hose Thread Spout Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF) .....	161.52	45.02
22 41 39 00-0023	EA	Hose Thread Spout With Vacuum Breaker Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF+RP12503).....	222.32	49.62

**22 41 39 00-0024 Other Residential Faucets** (22 41 39)

22 41 39 00-0025	EA	Sillcock, Compact, Brass, IPS Or Copper To Hose .....	47.80	11.49
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**22 42 Commercial Plumbing Fixtures** (22 40)

Note: Prices are for commercial grade unless otherwise indicated. Includes final connection and all associated trim (seat, supply stop and line, wax seal, valve). Excludes rough-in within the wall and carrier.

**22 42 13 Commercial Water Closets, Urinals, and Bidets** (22 42)

**22 42 13 13 Commercial Water Closets** (22 42 13)

**22 42 13 13-0001 Vitreous China Water Closets** (22 42 13 13)

Note: With a 2" ball pass.

**22 42 13 13-0002 Floor Mounted Elongated Vitreous China Water Closets** (22 42 13 13-0001)

Note: Includes wax seal and toilet seat. Excludes flush valve.

22 42 13 13-0003	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Madera™).....	809.23	146.62
22 42 13 13-0004	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Priolo™).....	942.33	146.62
22 42 13 13-0005	EA	2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Yorkville™) .....	1,184.82	146.62
22 42 13 13-0006	EA	2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Cadet®).....	1,072.37	146.62
22 42 13 13-0007	EA	1 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Compact Cadet®).....	1,008.88	146.62
22 42 13 13-0008	EA	2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet With Concealed Trapway (American Standard Cadet® 3 FloWise® RIGHT HEIGHT®) .....	1,013.25	146.62
22 42 13 13-0009	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Kohler® Wellcome™).....	799.48	146.62
22 42 13 13-0010	EA	1.28 GPF Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Toto® CT705E).....	848.49	146.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 42 13 13-0011</b> <b>Wall Hung Elongated Vitreous China Water Closets</b> <small>(22 42 13 13-0001)</small> Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0012 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard AFWall®).....	943.95	180.45
22 42 13 13-0013 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard AFWall® ADA Retrofit).....	1,137.56	180.45
22 42 13 13-0014 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Glenwall™).....	1,400.71	180.45
22 42 13 13-0015 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Kingston™).....	947.13	180.45
22 42 13 13-0016 EA Flush Valve Type, Blow Out, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Stratton™).....	1,364.91	180.45
22 42 13 13-0017 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT708E Or CT708EV).....	1,032.52	180.45
22 42 13 13-0018 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn Z5615-BWL).....	899.61	180.45
22 42 13 13-0019 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Sloan ST-2459).....	938.12	180.45
<b>22 42 13 13-0020</b> <b>Floor Mounted Elongated Handicapped Water Closets</b> <small>(22 42 13 13-0001)</small> Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0021 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Madera™ ADA).....	818.90	146.62
22 42 13 13-0022 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Colorado Right Height®).....	835.73	146.62
22 42 13 13-0023 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Right Width™ Right Height®).....	909.93	146.62
22 42 13 13-0024 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Huron).....	1,001.72	146.62
22 42 13 13-0025 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Priolo® ADA).....	997.90	146.62
22 42 13 13-0026 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Back Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Yorkville™ ADA).....	1,290.88	146.62
22 42 13 13-0027 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Cadet Right Height™ ADA).....	1,107.29	146.62
22 42 13 13-0028 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT705ELN).....	894.48	146.62
22 42 13 13-0029 EA 2 Piece Tank Type, High Efficiency Water Closet Floor Mounted, Elongated, (Sterling 402077) With Open-Front Seat (Kohler K-4650).....	1,006.97	146.62
22 42 13 13-0030 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler Highline™ ADA K-3519).....	1,130.34	146.62
22 42 13 13-0031 EA 2 Piece Tank Type, Dual-Flush 1.1 And 1.6 GPF, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Vortens Vienna ELX-DF 3113-3436).....	907.54	146.62
22 42 13 13-0032 EA 2 Piece Tank Type, High Efficiency Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Niagara Stealth™).....	886.90	146.62
22 42 13 13-0033 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn HET Z5667-BWL).....	855.87	146.62
<b>22 42 13 13-0034</b> <b>Floor Mounted, 10" High Bowl, Children's Height Vitreous China Water Closets</b> <small>(22 42 13 13-0001)</small> Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0035 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Elongated Vitreous China Water Closet (Kohler® Primary™).....	903.97	146.62
22 42 13 13-0036 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....	827.30	146.62
22 42 13 13-0037 EA 2 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....	946.65	146.62
<b>22 42 13 13-0038</b> <b>Floor Mounted Round Bowl Vitreous China Water Closets</b> <small>(22 42 13 13-0001)</small>		
22 42 13 13-0039 EA 2 Piece Tank Type, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Toto® CST715) With SoftClose® Seat (Toto® SS113).....	873.63	146.62
22 42 13 13-0040 EA 2 Piece Tank Type, Dual Flush, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Vortens 3208-3412).....	893.93	146.62
<b>22 42 13 13-0041</b> <b>Stainless Steel Water Closets</b> <small>(22 42 13 13)</small>		
22 42 13 13-0042 EA Wall Hung Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2105-T-1-HS).....	3,676.94	317.21
22 42 13 13-0043 EA Floor Mounted Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2120-T-3-HS).....	3,865.50	317.21
<b>22 42 13 13-0044</b> <b>Water Closet Carriers</b> <small>(22 42 13 13)</small>		
<b>22 42 13 13-0045</b> <b>Pipe Grip Adaptor Type, Water Closet Carriers</b> <small>(22 42 13 13-0044)</small> Note: Includes coated cast iron construction, plated hardware and adjustable feet. Excludes waste piping and fittings.		
22 42 13 13-0046 EA Pipe Grip Adaptor Type, Water Closet Carrier.....	634.65	74.44



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0047				<b>No-Hub, Water Closet Carriers</b> <small>(22 42 13 13-0044)</small> Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.		
22 42 13 13-0048	EA			Vertical Close With Offset, No-Hub, Single Water Closet Carrier ..... 953.74		74.44
				<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> ..... -78.30		
				<i>For Positioning Frame, Add</i> ..... 53.36		
				<i>For Supply Pipe Support, Add</i> ..... 54.53		
				<i>For Vandal Proof Trim, Add</i> ..... 66.63		
				<i>For Auxiliary Inlet, Add</i> ..... 230.96		
				<i>For Special Duty 500 LB Carrier, Add</i> ..... 371.68		
22 42 13 13-0049	EA			Vertical Close On Stack, No-Hub, Single Water Closet Carrier ..... 953.74		74.44
				<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> ..... -78.30		
				<i>For Positioning Frame, Add</i> ..... 53.36		
				<i>For Supply Pipe Support, Add</i> ..... 54.53		
				<i>For Vandal Proof Trim, Add</i> ..... 66.63		
				<i>For Auxiliary Inlet, Add</i> ..... 230.96		
				<i>For Special Duty 500 LB Carrier, Add</i> ..... 371.68		
22 42 13 13-0050	EA			Horizontal Adjustable, No-Hub, Single Water Closet Carrier ..... 1,036.72		74.44
				<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> ..... -78.30		
				<i>For Positioning Frame, Add</i> ..... 53.36		
				<i>For Supply Pipe Support, Add</i> ..... 54.53		
				<i>For Vandal Proof Trim, Add</i> ..... 66.63		
				<i>For Auxiliary Inlet, Add</i> ..... 230.96		
				<i>For Horizontal No Hub Cast Long Barrel, Add</i> ..... 231.78		
				<i>For Carrier For Wide Chase Installations, Add</i> ..... 314.29		
				<i>For Special Duty 1,000 LB Carrier, Add</i> ..... 371.69		
22 42 13 13-0051	EA			Vertical Adjustable On Stack, No-Hub, Single Water Closet Carrier ..... 1,143.08		74.44
				<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> ..... -78.30		
				<i>For Positioning Frame, Add</i> ..... 53.36		
				<i>For Supply Pipe Support, Add</i> ..... 54.53		
				<i>For Vandal Proof Trim, Add</i> ..... 66.63		
				<i>For 4" Branch, Add</i> ..... 179.19		
				<i>For Auxiliary Inlet, Add</i> ..... 230.96		
				<i>For Carrier For Wide Chase Installations, Add</i> ..... 314.29		
				<i>For Double 4" Branches, Add</i> ..... 359.52		
				<i>For Special Duty 1,000 LB Carrier, Add</i> ..... 371.69		
22 42 13 13-0052	EA			Vertical Close With Offset, No-Hub, Double Water Closet (Back To Back) Carrier ..... 1,577.25		109.26
				<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> ..... -156.59		
				<i>For Positioning Frame, Add</i> ..... 117.29		
				<i>For Supply Pipe Support, Add</i> ..... 119.63		
				<i>For Vandal Proof Trim, Add</i> ..... 133.26		
				<i>For Auxiliary Inlet, Add</i> ..... 252.11		
				<i>For Special Duty 500 LB Carrier, Add</i> ..... 743.35		
22 42 13 13-0053	EA			Vertical Close On Stack, No-Hub, Double Water Closet (Back To Back) Carrier ..... 1,619.34		109.26
				<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> ..... -156.59		
				<i>For Positioning Frame, Add</i> ..... 117.29		
				<i>For Supply Pipe Support, Add</i> ..... 119.63		
				<i>For Vandal Proof Trim, Add</i> ..... 133.26		
				<i>For Auxiliary Inlet, Add</i> ..... 252.11		
				<i>For Special Duty 500 LB Carrier, Add</i> ..... 743.35		
22 42 13 13-0054	EA			Vertical Adjustable On Stack, No-Hub, Double Water Closet (Back To Back) Carrier ..... 1,954.78		109.26
				<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> ..... -156.59		
				<i>For Positioning Frame, Add</i> ..... 117.29		
				<i>For Supply Pipe Support, Add</i> ..... 119.63		
				<i>For Vandal Proof Trim, Add</i> ..... 133.26		
				<i>For 4" Branch, Add</i> ..... 189.76		
				<i>For Auxiliary Inlet, Add</i> ..... 252.11		
				<i>For Double 4" Branches, Add</i> ..... 380.67		
				<i>For Carrier For Wide Chase Installations, Add</i> ..... 692.04		
				<i>For Special Duty 1,000 LB Carrier, Add</i> ..... 743.37		
22 42 13 13-0055	EA			Horizontal Adjustable, No-Hub, Double Water Closet (Back To Back) Carrier ..... 1,844.91		109.26
				<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> ..... -156.59		
				<i>For Positioning Frame, Add</i> ..... 117.29		
				<i>For Supply Pipe Support, Add</i> ..... 119.63		
				<i>For Vandal Proof Trim, Add</i> ..... 133.26		
				<i>For Horizontal No Hub Cast Long Barrel, Add</i> ..... 242.35		
				<i>For Carrier For Wide Chase Installations, Add</i> ..... 692.04		
				<i>For Special Duty 1,000 LB Carrier, Add</i> ..... 743.37		
22 42 13 13-0056				<b>Hub And Spigot, Water Closet Carriers</b> <small>(22 42 13 13-0044)</small> Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.		
22 42 13 13-0057	EA			Vertical Close With Offset, Hub And Spigot, Single Water Closet Carrier ..... 1,093.77		74.44
				<i>For Positioning Frame, Add</i> ..... 53.36		
				<i>For Supply Pipe Support, Add</i> ..... 54.53		
				<i>For Vandal Proof Trim, Add</i> ..... 66.63		
				<i>For Hanger Type Closet Adapter, Add</i> ..... 167.14		
				<i>For Auxiliary Inlet, Add</i> ..... 230.96		
22 42 13 13-0058	EA			Vertical Close On Stack, Hub And Spigot, Single Water Closet Carrier ..... 953.74		74.44
				<i>For Positioning Frame, Add</i> ..... 53.36		
				<i>For Supply Pipe Support, Add</i> ..... 54.53		
				<i>For Vandal Proof Trim, Add</i> ..... 66.63		
				<i>For Auxiliary Inlet, Add</i> ..... 230.96		
				<i>For Special Duty 500 LB Carrier, Add</i> ..... 371.68		

**22 Plumbing****22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0059 EA Vertical Adjustable On Stack, Hub And Spigot, Single Water Closet Carrier .....	1,182.82	74.44
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-78.30	
For Positioning Frame, Add	53.36	
For Supply Pipe Support, Add	54.53	
For Vandal Proof Trim, Add	66.63	
For 4" Branch, Add	179.19	
For Auxiliary Inlet, Add	230.96	
For Carrier For Wide Chase Installations, Add	314.29	
For Double 4" Branches, Add	359.52	
For Special Duty 1,000 LB Carrier, Add	371.69	
22 42 13 13-0060 EA Vertical Close With Offset, Hub And Spigot, Double Water Closet (Back To Back) Carrier .....	1,816.84	109.26
For Positioning Frame, Add	117.29	
For Supply Pipe Support, Add	119.63	
For Vandal Proof Trim, Add	133.26	
For Auxiliary Inlet, Add	252.11	
For Hanger Type Closet Adapter, Add	334.28	
22 42 13 13-0061 EA Vertical Adjustable On Stack, Hub And Spigot, Double Water Closet (Back To Back) Carrier .....	1,994.52	109.26
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-156.59	
For Positioning Frame, Add	117.29	
For Supply Pipe Support, Add	119.63	
For Vandal Proof Trim, Add	133.26	
For 4" Branch, Add	189.76	
For Auxiliary Inlet, Add	252.11	
For Double 4" Branches, Add	380.67	
For Carrier For Wide Chase Installations, Add	692.04	
For Special Duty 1,000 LB Carrier, Add	743.37	
<b>22 42 13 13-0062 Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Water Closet Carriers</b>		
(22 42 13 13-0044)		
Note: Includes coated cast iron construction, plastic fitting adaptor with extension and plated hardware.		
22 42 13 13-0063 EA Vertical On Stack, Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Single Water Closet Carrier .....	749.19	74.44
For Positioning Frame, Add	53.36	
For Supply Pipe Support, Add	54.53	
For Vandal Proof Trim, Add	66.63	
For Hanger Type Closet Adapter, Add	167.14	
<b>22 42 13 13-0064 Institutional Water Closet Carriers</b> (22 42 13 13-0044)		
Note: Includes coated cast iron construction, ABS extension with integral test cap, buttress feet, plated hardware and neoprene fixture gasket.		
22 42 13 13-0065 EA Vertical On Stack, No-Hub, 90 Degree Institutional, Double Waste Fitting With Vent And Carrier, Water Closet Carrier .....	2,536.85	109.26
For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-156.59	
For Positioning Frame, Add	117.29	
For Supply Pipe Support, Add	119.63	
For Vandal Proof Trim, Add	133.26	
For Auxiliary Inlet, Add	252.11	
<b>22 42 13 13-0066 Removal And Reinstallation Of Fixtures And Trim</b> (22 42 13 13)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 13 13-0067 EA Removal And Reinstallation Of Wall Hung Water Closet With Tank .....	643.85	
22 42 13 13-0068 EA Removal And Reinstallation Of Wall Hung Water Closet With Flush Valve .....	643.85	
22 42 13 13-0069 EA Removal And Reinstallation Of Floor Mount Water Closet With Tank .....	495.04	
22 42 13 13-0070 EA Removal And Reinstallation Of Floor Mount Water Closet With Flush Valve .....	495.04	
<b>22 42 13 16 Commercial Urinals</b> (22 42 13)		
<b>22 42 13 16-0001 Vitreous China Urinals</b> (22 42 13 16)		
Note: Excludes flush valve unless indicated otherwise.		
<b>22 42 13 16-0002 Wall Hung Urinals</b> (22 42 13 16-0001)		
22 42 13 16-0003 EA Wall Hung Washout, Vitreous China Urinal (American Standard Maybrook™) .....	735.16	150.85
22 42 13 16-0004 EA Wall Hung, Washout, Vitreous China Urinal With Top Spud (American Standard Washbrook®) .....	860.85	150.85
22 42 13 16-0005 EA Wall Hung, Washout, Vitreous China Urinal With Back Spud (American Standard Washbrook®) .....	887.13	150.85
22 42 13 16-0006 EA Wall Hung, Blowout, Vitreous China Urinal (American Standard Lynbrook™) .....	925.74	150.85
22 42 13 16-0007 EA Wall Hung Siphon Jet, Vitreous China Urinal (American Standard Trimbrook™) .....	858.80	150.85
22 42 13 16-0008 EA Wall Hung, Siphon Jet, Vitreous China Urinal (American Standard Allbrook™) .....	752.85	150.85
22 42 13 16-0009 EA Wall Hung, Washout, Vitreous China Urinal (Toto® UT447E Or UT447EV) .....	877.26	150.85
22 42 13 16-0010 EA Wall Hung, Washout, Vitreous China Urinal (Toto® UT104E Or UT104EV) .....	775.69	150.85
22 42 13 16-0011 EA Wall Hung, Washout, Vitreous China Urinal (Zurn Z5798) .....	825.05	150.85
22 42 13 16-0012 EA Wall Hung, Washout, 0.125 To 0.5 GPF, HEU, Vitreous China Urinal (Sloan SU-1009-A) .....	768.43	150.85
22 42 13 16-0013 EA Wall Hung, Washout, 1.0 GPF, HEU, Vitreous China Urinal (Sloan SU-1006-A) .....	766.28	150.85
<b>22 42 13 16-0014 Floor Mounted Urinals</b> (22 42 13 16-0001)		
22 42 13 16-0015 EA Washout, Floor Mounted, Vitreous China Urinal (American Standard Stallbrook™) .....	1,127.22	190.33
22 42 13 16-0016 EA Washout, Floor Mounted, Vitreous China Urinal (Kohler® Branham™) .....	1,247.20	190.33
22 42 13 16-0017 EA Floor Mounted Urinal Seam Cover For 21" Centers (Kohler® K-4931) .....	328.30	35.25
22 42 13 16-0018 EA Floor Mounted Urinal Seam Cover For 24" Centers (Kohler® K-4932) .....	370.27	35.25





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 42 13 16-0019</b> <b>Waterfree Urinals</b> <small>(22 42 13 16-0001)</small>		
22 42 13 16-0020    EA    Waterfree, Wall Hung, Vitreous China Urinal (American Standard Large FloWise® Flush-Free).....	730.18	105.74
For Colored Fixtures, Add	66.90	
For >1, Deduct	-43.06	
22 42 13 16-0021    EA    Waterfree, Wall Hung, Vitreous China Urinal (SLOAN WES-1000).....	1,293.98	105.74
For Colored Fixtures, Add	66.90	
For >1, Deduct	-107.33	
22 42 13 16-0022    EA    Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-2000).....	1,126.76	105.74
For Colored Fixtures, Add	66.90	
For >1, Deduct	-88.27	
22 42 13 16-0023    EA    Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-4000).....	884.84	105.74
For Colored Fixtures, Add	66.90	
For >1, Deduct	-60.69	
22 42 13 16-0024    EA    Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-5000).....	884.84	105.74
For Colored Fixtures, Add	66.90	
For >1, Deduct	-60.69	
22 42 13 16-0025    EA    Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-7000).....	1,075.10	105.74
For Colored Fixtures, Add	66.90	
For >1, Deduct	-82.38	
22 42 13 16-0026    EA    Waterfree, Wall Hung, Stainless Steel Urinal (Falcon F-9000).....	1,583.37	105.74
For >1, Deduct	-140.32	
<b>22 42 13 16-0027</b> <b>Stainless Steel Urinals</b> <small>(22 42 13 16)</small>		
22 42 13 16-0028    EA    Wall Hung Urinal, Stainless Steel, Blowout Jet (Acorn 2160-T-1).....	3,783.01	317.21
22 42 13 16-0029    EA    5' Wall Hung Trough Urinal, Stainless Steel With Strainer And Washdown Pipe (Elkay EU6014C).....	4,892.43	387.70
<b>22 42 13 16-0030</b> <b>Urinal Carriers</b> <small>(22 42 13 16)</small>		
<b>22 42 13 16-0031</b> <b>Floor Mounted, Urinal Carriers</b> <small>(22 42 13 16-0030)</small>		
Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 13 16-0032    EA    Floor Mounted Hanger Plate Type, Single Urinal Carrier.....	619.23	53.58
For Up To 4" Extension Sleeves And Hardware, Add	24.54	
22 42 13 16-0033    EA    Floor Mounted Bearing Plate Type, Single Urinal Carrier.....	590.15	53.58
For Up To 4" Extension Sleeves And Hardware, Add	24.54	
<b>22 42 13 16-0034</b> <b>Wall Mounted, Urinal Carriers</b> <small>(22 42 13 16-0030)</small>		
Note: Includes wall plate and adjustable supporting rods.		
22 42 13 16-0035    EA    Wall Mounted Hanger Plate Type, Single Urinal Carrier.....	268.73	53.58
For Up To 6-1/2" Extension Sleeves And Hardware, Add	24.54	
<b>22 42 13 16-0036</b> <b>Removal And Reinstallation Of Fixtures And Trim</b> <small>(22 42 13 16)</small>		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 13 16-0037    EA    Removal And Reinstallation Of Wall Hung Urinal With Flush Valve.....	642.25	
<b>22 42 16</b> <b>Commercial Lavatories and Sinks</b> <small>(22 42)</small>		
<b>22 42 16 13</b> <b>Commercial Lavatories</b> <small>(22 42 16)</small>		
<b>22 42 16 13-0001</b> <b>Lavatories</b> <small>(22 42 16 13)</small>		
Note: Includes trap, drain and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.		
<b>22 42 16 13-0002</b> <b>Wall Hung Lavatories</b> <small>(22 42 16 13-0001)</small>		
22 42 16 13-0003    EA    19" x 17" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™).....	680.41	94.45
22 42 16 13-0004    EA    20" x 18" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™).....	707.21	94.45
22 42 16 13-0005    EA    22" x 19" Porcelain Enameled Cast Iron Wall Hung Lavatory (Kohler® Hampton™).....	857.36	94.45
22 42 16 13-0006    EA    18" x 16" Vitreous China Wall Hung Lavatory (American Standard Penlyn™).....	631.53	94.45
22 42 16 13-0007    EA    19" x 17" Vitreous China Wall Hung Lavatory (American Standard Declyn™).....	556.64	94.45
22 42 16 13-0008    EA    20" x 18" Vitreous China Wall Hung Lavatory (Kohler® Soho®).....	679.97	94.45
22 42 16 13-0009    EA    20" x 18" Vitreous China Wall Hung Lavatory (American Standard Roxalyn™).....	644.15	94.45
22 42 16 13-0010    EA    20" x 18" Vitreous China Wall Hung Lavatory (American Standard Lucerne™).....	578.71	94.45
22 42 16 13-0011    EA    27" x 20" Wheelchair Accessible, Vitreous China Wall Hung Lavatory (American Standard Wheel Chair Users).....	785.26	94.45
<b>22 42 16 13-0012</b> <b>Countertop Lavatories</b> <small>(22 42 16 13-0001)</small>		
22 42 16 13-0013    EA    20" x 18" Oval Vitreous China Countertop Lavatory (Kohler® Pennington®).....	662.59	114.19
22 42 16 13-0014    EA    21" x 18" Vitreous China Countertop Lavatory (American Standard Cadet™ Oval).....	674.27	114.19
22 42 16 13-0015    EA    19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Farmington™).....	706.93	114.19
22 42 16 13-0016    EA    19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Ellington™).....	741.61	114.19
22 42 16 13-0017    EA    24" x 18" Enameled Cast Iron Countertop Lavatory (Kohler® Thoreau®).....	942.48	123.35
<b>22 42 16 13-0018</b> <b>Undermount Lavatories</b> <small>(22 42 16 13-0001)</small>		
22 42 16 13-0019    EA    15" x 12" Vitreous China Undermount Lavatory (American Standard Ovalyn™).....	645.03	114.19
22 42 16 13-0020    EA    17" x 14" Vitreous China Undermount Lavatory (American Standard Ovalyn™).....	612.82	114.19
22 42 16 13-0021    EA    19" x 16" Vitreous China Undermount Lavatory (American Standard Ovalyn™).....	612.82	114.19
22 42 16 13-0022    EA    21" x 17" Vitreous China Undermount Lavatory (American Standard Ovalyn™).....	652.05	114.19
22 42 16 13-0023    EA    15" x 12" Oval Vitreous China Undermount Lavatory (Kohler® Caxton®).....	629.16	114.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 13-0024 EA 17" x 14" Oval Vitreous China Undermount Lavatory (Kohler® Caxton®).....	623.22	114.19
22 42 16 13-0025 EA 19" x 15" Oval Vitreous China Undermount Lavatory (Kohler® Caxton®).....	629.27	114.19
22 42 16 13-0026 EA 18" x 12" Rectangular Vitreous China Undermount Lavatory (Kohler® Ladena®).....	762.61	114.19
22 42 16 13-0027 EA 21" x 14" Rectangular Vitreous China Undermount Lavatory (Kohler® Ladena®).....	762.61	114.19
<b>22 42 16 13-0028 Pedestal Lavatories</b> (22 42 16 13-0001)		
22 42 16 13-0029 EA 19" x 24" x 35" High Vitreous China Pedestal Sink (American Standard Cadet™).....	808.90	271.38
<b>22 42 16 13-0030 Cultured Marble Vanity Tops</b> (22 42 16 13-0001)		
Note: Includes predrilled holes for faucet.		
22 42 16 13-0031 EA 25" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....	461.42	105.74
22 42 16 13-0032 EA 31" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....	521.52	112.79
22 42 16 13-0033 EA 37" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....	628.25	119.83
22 42 16 13-0034 EA 49" x 19" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....	859.17	126.88
22 42 16 13-0035 EA 25" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....	495.31	105.74
22 42 16 13-0036 EA 31" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....	531.07	112.79
22 42 16 13-0037 EA 37" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....	684.64	119.83
22 42 16 13-0038 EA 43" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....	745.98	123.35
22 42 16 13-0039 EA 49" x 22" Cultured Marble Vanity Top With Integrated Backsplash And Sink.....	835.32	126.88
<b>22 42 16 13-0040 Quartz Vanity Tops</b> (22 42 16 13-0001)		
Note: Includes predrilled holes for faucet.		
22 42 16 13-0041 EA 25" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....	877.38	105.74
22 42 16 13-0042 EA 31" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....	916.25	112.79
22 42 16 13-0043 EA 37" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....	1,048.25	119.83
22 42 16 13-0044 EA 43" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....	1,057.00	123.35
22 42 16 13-0045 EA 49" x 22" Quartz Vanity Top With Integrated Backsplash And Sink.....	1,149.72	126.88
22 42 16 13-0046 EA 61" x 22" Quartz Vanity Top With Integrated Backsplash And Two Sinks.....	1,522.30	133.93
22 42 16 13-0047 EA 73" x 22" Quartz Vanity Top With Integrated Backsplash And Two Sinks.....	1,788.78	140.96
22 42 16 13-0048 EA 22" End Splash For Quartz Vanity Tops.....	49.00	
<b>22 42 16 13-0049 Solid Surface Vanity Tops</b> (22 42 16 13-0001)		
Note: Includes predrilled holes for faucet.		
22 42 16 13-0050 EA 25" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....	743.85	105.74
22 42 16 13-0051 EA 31" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....	832.12	112.79
22 42 16 13-0052 EA 37" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....	931.84	119.83
22 42 16 13-0053 EA 43" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....	1,021.66	123.35
22 42 16 13-0054 EA 49" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....	1,103.92	126.88
22 42 16 13-0055 EA 55" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....	1,211.83	130.40
22 42 16 13-0056 EA 61" x 22" Solid Surface Vanity Top With Integrated Backsplash And Sink.....	1,343.86	133.93
22 42 16 13-0057 EA 61" x 22" Solid Surface Vanity Top With Integrated Backsplash And Two Sinks.....	1,376.29	133.93
22 42 16 13-0058 EA 73" x 22" Solid Surface Vanity Top With Integrated Backsplash And Two Sinks.....	1,483.60	140.96
22 42 16 13-0059 EA 22" End Splash For Solid Surface Vanity Tops.....	71.76	
<b>22 42 16 13-0060 Stainless Steel Lavatories</b> (22 42 16 13-0001)		
22 42 16 13-0061 EA 18" x 15" Wall Mounted Lavatory, Stainless Steel (Acorn 1950-1).....	1,962.97	246.72
<b>22 42 16 13-0062 Solid Surface Multi-Station Lavatory Systems</b> (22 42 16 13-0001)		
Note: ADA compliant. Includes integral faucets.		
22 42 16 13-0063 EA 2 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-2).....	6,847.91	183.20
For Integral Liquid Soap Dispenser, Add	171.00	
For Integral Photovoltaic Power Panels, Add	563.00	
22 42 16 13-0064 EA 3 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-3).....	10,029.67	183.20
For Integral Liquid Soap Dispenser, Add	171.00	
For Integral Photovoltaic Power Panels, Add	657.00	
22 42 16 13-0065 EA 12" Length, Solid Surface Countertop Extension (Bradley MG-EXT-12).....	470.92	61.07
22 42 16 13-0066 EA 18" Length, Solid Surface Countertop Extension (Bradley MG-EXT-18).....	581.20	61.07
22 42 16 13-0067 EA 36" Length, Solid Surface Countertop Extension (Bradley MG-EXT-36).....	1,142.86	61.07
<b>22 42 16 13-0068 Lavatory Carriers</b> (22 42 16 13)		
<b>22 42 16 13-0069 Floor Mounted, Lavatory Carriers</b> (22 42 16 13-0068)		
<b>22 42 16 13-0070 Floor Mounted Plate Type, Lavatory Carriers</b> (22 42 16 13-0069)		
Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 16 13-0071 EA Floor Mounted Hanger Plate Type, Single Lavatory Carrier.....	619.23	53.58
For Up To 4" Extension Sleeves And Hardware, Add	24.54	
For Valve Plate For Attaching To Upright, Add	91.15	
For Corner Carrier, Add	177.64	
22 42 16 13-0072 EA Floor Mounted Bearing Plate Type, Single Lavatory Carrier.....	590.15	53.58
For Up To 4" Extension Sleeves And Hardware, Add	24.54	
For Valve Plate For Attaching To Upright, Add	91.15	



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Fixtures</b>	<b>22 40</b>	
<b>Commercial Plumbing Fixtures</b>	<b>22 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 13-0073	EA		Floor Mounted Hanger Plate Type, Double Lavatory (Back To Back) Carrier ..... <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i>	668.46 49.08 182.30	53.58
22 42 16 13-0074	EA		Floor Mounted Bearing Plate Type, Double Lavatory (Back To Back) Carrier ..... <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i>	758.46 49.08 182.30	53.58
<b>22 42 16 13-0075</b>			<b>Floor Mounted, Lavatory Carriers With Arms</b> (22 42 16 13-0069) Note: Includes leveling and securing screws, structural uprights and welded feet.		
22 42 16 13-0076	EA		Floor Mounted, Single Lavatory Carrier With Concealed Arms..... <i>For Up To 6-1/2" Extension Sleeves And Hardware, Add</i> <i>For Concealed Arm Carrier For Wheelchair Lavatory, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i> <i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	793.75 24.54 33.90 93.97 82.98 150.77	63.44
22 42 16 13-0077	EA		Floor Mounted, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms ..... <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For Heavy Duty Carrier, Add</i>	911.71 24.54 66.63 93.97 85.32	63.44
22 42 16 13-0078	EA		Floor Mounted, Double Lavatory (Back To Back) Carrier With Concealed Arms..... <i>For Up To 6-1/2" Extension Sleeves And Hardware, Add</i> <i>For Concealed Arm Carrier For Wheelchair Lavatory, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i> <i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	1,048.77 49.08 67.80 187.94 165.97 301.55	63.44
22 42 16 13-0079	EA		Floor Mounted, Double Lavatory (Back To Back) Carrier With Exposed Acid Resistant White Coated Arms ..... <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For Heavy Duty Carrier, Add</i>	1,321.97 49.08 133.26 187.94 170.64	63.44
22 42 16 13-0080			<b>Wall Mounted, Lavatory Carriers</b> (22 42 16 13-0068)		
22 42 16 13-0081			<b>Wall Mounted Plate Type, Lavatory Carriers</b> (22 42 16 13-0080) Note: Includes wall plate and adjustable supporting rods.		
22 42 16 13-0082	EA		Wall Mounted Hanger Plate Type, Single Lavatory Carrier ..... <i>For Double Plate Carrier, Add</i>	268.73 73.61	53.58
22 42 16 13-0083			<b>Wall Mounted Plate Type, Lavatory Carriers With Arms</b> (22 42 16 13-0080) Note: Includes wall plate and leveling and securing screws.		
22 42 16 13-0084	EA		Wall Mounted Fixed Steel Plate Type, Single Lavatory Carrier With Concealed Arms..... <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i>	424.33 24.54 82.98	63.44
22 42 16 13-0085	EA		Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Concealed Arms..... <i>For Movable Mounting Brackets, Deduct</i> <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i> <i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	489.78 -63.12 24.54 82.98 150.77	63.44
22 42 16 13-0086	EA		Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms..... <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i>	691.98 24.54 66.63	63.44
22 42 16 13-0087			<b>Removal And Reinstallation Of Lavatory And Trim</b> (22 42 16 13) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 16 13-0088	EA		Removal And Reinstallation Of Wall Hung Lavatory With Faucet.....	414.65	
<b>22 42 16 16</b>			<b>Commercial Sinks</b> (22 42 16)		
22 42 16 16-0001			<b>Sinks</b> (22 42 16 16) Note: Includes drain, trap and supply valves. Excludes faucets. See CSI section 22 42 39 00-0000 for faucets.		
22 42 16 16-0002			<b>Kitchen Sinks</b> (22 42 16 16-0001)		
22 42 16 16-0003	EA		25" x 22" x 8-3/4" Enameled Cast Iron Kitchen Sink, Single Bowl (Kohler® Mayfield®).....	854.52	132.52
22 42 16 16-0004	EA		22" x 33" x 9-5/8" Enameled Cast Iron Kitchen Sink, Double Bowl (Kohler® Brookfield®).....	1,076.81	150.85
22 42 16 16-0005	EA		15" x 17" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1517)..... <i>For 18 Gauge, Add</i>	1,011.84 241.58	129.70
22 42 16 16-0006	EA		17" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1722)..... <i>For 18 Gauge, Add</i>	1,033.70 252.51	129.70
22 42 16 16-0007	EA		22" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2222)..... <i>For 18 Gauge, Add</i>	1,082.89 277.11	129.70
22 42 16 16-0008	EA		25" x 22" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2522)..... <i>For 18 Gauge, Add</i>	1,132.59 293.50	132.52
22 42 16 16-0009	EA		31" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR3122)..... <i>For 18 Gauge, Add</i>	1,401.37 400.99	150.85
22 42 16 16-0010	EA		33" x 21" x 7-1/2" Stainless Steel Kitchen Sink, Double Bowl, 20 Gauge (Elkay PSR3321)..... <i>For 18 Gauge, Add</i>	1,427.91 414.00	150.85
22 42 16 16-0011	EA		33" x 22" x 8" Stainless Steel Kitchen Sink, Double Bowl, 18 Gauge (Elkay LR3322).....	1,776.79	150.85
22 42 16 16-0012	EA		15" x 17" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR151710).....	1,366.18	129.70
22 42 16 16-0013	EA		17" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR172210).....	1,390.77	129.70

**22 Plumbing****22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 16-0014	EA		22" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR222210) .....	1,452.71	129.70
22 42 16 16-0015	EA		25" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR252210) .....	1,541.58	132.52
22 42 16 16-0016	EA		31" x 22" x 11-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR312210) .....	1,846.80	150.85
<b>22 42 16 16-0017</b>			<b>Undermount Kitchen Sinks (22 42 16 16-0001)</b>		
22 42 16 16-0018	EA		21" x 15" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU2115) With Strainer (Elkay LK99) .....	1,234.94	129.70
22 42 16 16-0019	EA		21" x 15" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU211510) With Strainer (Elkay LK99) .....	1,232.28	129.70
22 42 16 16-0020	EA		21" x 15" x 7-1/2" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH2115) With Strainer (Elkay LK99) .....	1,244.05	129.70
22 42 16 16-0021	EA		21" x 15" x 10" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH211510) With Strainer (Elkay LK99) .....	1,305.99	129.70
22 42 16 16-0022	EA		21" x 15-3/4" x 4-3/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHAD2115) With Strainer (Elkay LK99) .....	1,266.82	129.70
			Note: Available in 4-1/2", 5, or 5-1/2" depths.		
22 42 16 16-0023	EA		25" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF2520) With Strainer (Elkay LK99) .....	1,425.57	129.70
22 42 16 16-0024	EA		32" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF3320) With Strainer (Elkay LK99) .....	1,662.93	129.70
22 42 16 16-0025	EA		21" x 18" x 5-1/2" Deep, Single Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. US-ADA-1821-A) .....	1,037.56	129.70
22 42 16 16-0026	EA		32" x 18" x 5-1/2" Deep, Two Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. UD-ADA-1832-A) .....	1,304.07	129.70
<b>22 42 16 16-0027</b>			<b>Multi-Station Wash Sink, Wall Mounted (22 42 16 16-0001)</b>		
			Note: Includes concealed wall hanger, soap dish(s), strainer, supply lines and P-Trap. Excludes faucets.		
22 42 16 16-0028	EA		36" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™) .....	2,154.77	229.09
			Note: Excludes faucets.		
22 42 16 16-0029	EA		48" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™) .....	2,796.23	246.72
			Note: Excludes faucets.		
22 42 16 16-0030	EA		60" Wide, 3 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™) .....	3,186.76	264.34
			Note: Excludes faucets.		
22 42 16 16-0031	EA		48" Wide, 2 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951) .....	2,435.38	176.23
			Note: Excludes faucets.		
22 42 16 16-0032	EA		62" Wide, 3 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951) .....	2,700.83	193.84
			Note: Excludes faucets.		
22 42 16 16-0033	EA		80" Wide, 4 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951) .....	2,961.37	211.47
			Note: Excludes faucets.		
22 42 16 16-0034	EA		102" Wide, 5 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951) .....	3,288.99	237.91
			Note: Excludes faucets.		
22 42 16 16-0035	EA		27" Diameter, 2 Person, Stainless Steel, Sensor Operated Compact Wash Fountain .....	3,120.27	387.70
			Note: Includes sensor operated spray heads.		
<b>22 42 16 16-0036</b>			<b>Utility Or Laundry Sinks (22 42 16 16-0001)</b>		
22 42 16 16-0037	EA		23" x 21" Molded Stone Single Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FL-1) .....	809.57	150.85
22 42 16 16-0038	EA		40" x 24" Molded Stone Double Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FLTD-II) .....	907.25	150.85
22 42 16 16-0039	EA		22" x 17" Molded Stone Single Laundry Sink, Drop-In (Fiat Products DL1) .....	807.45	150.85
22 42 16 16-0040	EA		24" x 21" Enameled Cast Iron Single Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2210) .....	1,152.67	150.85
22 42 16 16-0041	EA		48" x 21" Enameled Cast Iron Double Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2220) .....	1,578.84	169.18
<b>22 42 16 16-0042</b>			<b>Refinish Sink/Lavatory (22 42 16 16-0001)</b>		
22 42 16 16-0043	EA		Refinish Sink/Lavatory .....	315.92	
<b>22 42 16 16-0044</b>			<b>Service Sinks (22 42 16 16-0001)</b>		
22 42 16 16-0045	EA		22" x 18" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Lakewell™) .....	1,144.42	226.98
22 42 16 16-0046	EA		24" x 20" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Akron™) .....	1,197.70	226.98
22 42 16 16-0047	EA		28" x 28" Enameled Cast Iron Floor Type Corner Service Sink With Removable Vinyl Coated Rim Guard (American Standard Florwell™) .....	1,504.25	300.28
22 42 16 16-0048	EA		12" x 12" x 10" Cast Iron Floor Sink With Dome Strainer And Full Grate (Zurn FD2377-PO3-F) .....	676.57	211.47
22 42 16 16-0049	EA		24" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB2424) .....	761.62	211.47
22 42 16 16-0050	EA		36" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB3624) .....	850.99	253.77
22 42 16 16-0051	EA		24" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2424-010) .....	724.12	211.47
22 42 16 16-0052	EA		36" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2436-010) .....	829.55	253.77
22 42 16 16-0053	EA		24" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-24) .....	1,079.50	211.47
22 42 16 16-0054	EA		36" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-3624) .....	1,329.45	253.77
<b>22 42 16 16-0055</b>			<b>Stainless Steel Sink And Drainboard (22 42 16 16-0001)</b>		
22 42 16 16-0056	EA		Stainless Steel Sink With One 24" x 24" x 14" Depth Compartment And Drainboard, 14 Gauge Stainless Steel With Tubular Adjustable Legs (Advance Tabco 94-41-24-24L) .....	4,590.39	352.45



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Fixtures</b>	<b>22 40</b>	
<b>Commercial Plumbing Fixtures</b>	<b>22 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 42 16 16-0057 Soapstone Sinks</b> (22 42 16 16-0001)		
22 42 16 16-0058 EA 26-1/2" x 18-1/2" x 7-3/4" Single Bowl Soapstone Sink .....	1,215.27	129.70
22 42 16 16-0059 SF Soapstone Sink Backsplash .....	174.69	
22 42 16 16-0060 EA 30" x 18-1/2" x 10" Single Bowl Soapstone Sink .....	1,529.54	150.85
22 42 16 16-0061 EA 36" x 18-1/2" x 10" Double Bowl Soapstone Sink .....	1,763.90	150.85
<b>22 42 16 16-0062 Sink Carriers</b> (22 42 16 16)		
<b>22 42 16 16-0063 Floor Mounted, Sink Carriers</b> (22 42 16 16-0062)		
Note: With support plates, adjustable coupling with 4" piping connection, mounting studs, structural uprights, welded feet and chrome plated trim.		
22 42 16 16-0064 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling.....	890.98	53.58
For Vandal Proof Trim, Add	66.63	
For Valve Plate For Attaching To Upright, Add	91.15	
22 42 16 16-0065 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling And 4" x 2" Waste Fitting.....	1,174.55	53.58
For Vandal Proof Trim, Add	66.63	
For Auxiliary Vent, Add	202.20	
22 42 16 16-0066 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With Exposed Acid Resistant White Coated Arms .....	1,459.75	53.58
For Up To 4" Extension Sleeves And Hardware, Add	50.26	
For Vandal Proof Trim, Add	66.63	
<b>22 42 16 16-0067 Removal And Reinstallation Of Sink And Trim</b> (22 42 16 16)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 16 16-0068 EA Removal And Reinstallation Of Wall Hung Service Sink With Faucet.....	568.47	
<b>22 42 19 Commercial Bathtubs</b> (22 42)		
<b>22 42 19 00-0001 Recessed Alcove Bathtubs</b> (22 42 19)		
<b>22 42 19 00-0002 Porcelain Enameled Cast Iron, Recessed Alcove Bathtubs</b> (22 42 19 00-0001)		
22 42 19 00-0003 EA 54" x 30-1/4" x 14", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Seaforth™) .....	1,645.33	391.92
22 42 19 00-0004 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Mendota®).....	1,435.53	391.92
22 42 19 00-0005 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Dynametric®).....	1,650.60	391.92
22 42 19 00-0006 EA 66" x 32" x 17", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Bellwether®) .....	2,072.55	391.92
<b>22 42 19 00-0007 Porcelain Enameled Steel, Recessed Alcove Bathtubs</b> (22 42 19 00-0001)		
22 42 19 00-0008 EA 60" x 30" x 14-1/4", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Salem®).....	829.43	391.92
22 42 19 00-0009 EA 60" x 30" x 16-5/8", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Solar®).....	844.45	391.92
<b>22 42 19 00-0010 Porcelain Finished Metal Alloy, Recessed Alcove Bathtubs</b> (22 42 19 00-0001)		
22 42 19 00-0011 EA 60" x 32" x 17-3/4", Porcelain Finished Metal Alloy, Recessed Alcove Bathtub (American Standard Cambridge™).....	1,140.22	391.92
<b>22 42 19 00-0012 Acrylic, Recessed Alcove Bathtubs</b> (22 42 19 00-0001)		
22 42 19 00-0013 EA 60" x 32" x 19", Acrylic, Recessed Alcove Bathtub (Kohler® Archer®) .....	1,168.63	391.92
22 42 19 00-0014 EA 60" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,350.27	391.92
22 42 19 00-0015 EA 66" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,373.73	391.92
22 42 19 00-0016 EA 72" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,359.31	391.92
22 42 19 00-0017 EA 72" x 42" x 21", Acrylic, Recessed Alcove Bathtub (Kohler® Windward®).....	1,411.18	391.92
<b>22 42 19 00-0018 Bathtub Refinishing</b> (22 42 19 00-0001)		
22 42 19 00-0019 EA Refinish Porcelain Finished Bathtub With Acrylic Urethane Enamel.....	767.68	
<b>22 42 19 00-0020 Tub And Shower Combinations</b> (22 42 19)		
<b>22 42 19 00-0021 Acrylic Tub And Shower Combination</b> (22 42 19 00-0020)		
22 42 19 00-0022 EA 1 Piece, 60" x 32" x 72" Acrylic Tub And Shower (Delta 226032).....	1,364.35	131.91
For 2 Piece Enclosure, Deduct	-299.33	
<b>22 42 19 00-0023 Fiberglass Tub And Shower Combination</b> (22 42 19 00-0020)		
22 42 19 00-0024 EA 1 Piece 60" x 32" x 72" Fiberglass Tub And Shower (Aquatic 2603-SG).....	942.60	131.91
22 42 19 00-0025 EA 2 Piece 60" x 30" x 72" Fiberglass Tub And Shower (Aquatic 2603-2P).....	733.14	87.93
22 42 19 00-0026 EA 4 Piece 60" x 32" x 75-1/2" Fiberglass Tub And Shower (Aquatic 26030-4P) .....	1,483.85	199.08
22 42 19 00-0027 EA 3 Piece Tub/Shower Surrounds, 32" x 72" Side Walls, 48" x 72" Back, (Swanstone SK-324872).....	3,495.61	375.79
For 2 Piece Enclosure, Deduct	-727.59	
<b>22 42 23 Commercial Showers</b> (22 42)		
<b>22 42 23 00-0001 Shower Enclosures</b> (22 42 23)		
Note: Includes precast concrete receptors. Excludes plumbing hook-up and door or curtain.		

**22 Plumbing****22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
22 42 23 00-0002		<b>Powder Coated Or Baked Enamel Steel Shower Enclosure</b> (22 42 23 00-0001)			
22 42 23 00-0003	EA	32" x 32" x 82" Baked Enamel Steel Shower Enclosure (General Partitions) .....	1,831.66		227.39
22 42 23 00-0004	EA	36" x 36" x 82" Baked Enamel Steel Shower Enclosure (General Partitions) .....	1,831.66		227.39
22 42 23 00-0005	EA	40" x 40" x 82" Baked Enamel Steel Shower Enclosure (General Partitions) .....	2,712.86		227.39
22 42 23 00-0006	EA	40" x 48" x 82" Handicapped, Baked Enamel Steel Shower Enclosure (General Partitions) .....	2,974.47		227.39
22 42 23 00-0007		<b>Solid Plastic Core High Density Polymer (HDP) Shower Enclosure</b> (22 42 23 00-0001)			
22 42 23 00-0008	EA	32" x 32" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	2,946.93		227.39
22 42 23 00-0009	EA	36" x 36" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	2,946.93		227.39
22 42 23 00-0010	EA	40" x 40" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	4,186.12		227.39
22 42 23 00-0011	EA	40" x 48" x 82" Handicapped, Solid Plastic Shower Enclosure (General Partitions).....	4,668.03		227.39
22 42 23 00-0012		<b>Composite Fiberglass Shower Enclosure, 4 Piece Knock-Down</b> (22 42 23 00-0001)			
22 42 23 00-0013	EA	32" x 32" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3232CS) .....	1,550.91		227.39
22 42 23 00-0014	EA	36" x 36" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3636CS) .....	1,591.58		227.39
22 42 23 00-0015	EA	34" x 48" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 4834CS) .....	1,632.26		227.39
22 42 23 00-0016	EA	30" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6030CSL) .....	1,713.60		227.39
22 42 23 00-0017	EA	34" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6034CS) .....	1,821.39		227.39
22 42 23 00-0018		<b>1 Piece Shower Units</b> (22 42 23)			
22 42 23 00-0019	EA	1 Piece, 32" x 32" x 73" Fiberglass Shower With Drain (Swanstone FS03232).....	1,301.50		131.91
22 42 23 00-0020	EA	1 Piece, 36" x 36" x 73" Fiberglass Shower With Drain (Swanstone FS03636).....	1,450.85		131.91
22 42 23 00-0021		<b>Personnel Type Shower Receptors</b> (22 42 23)			
22 42 23 00-0022		<b>Acrylic Shower Receptors</b> (22 42 23 00-0021)			
22 42 23 00-0023	EA	36" x 36" Acrylic Shower Receptor .....	508.05		57.43
22 42 23 00-0024	EA	42" x 42" Acrylic Shower Receptor .....	534.46		57.43
22 42 23 00-0025	EA	48" x 48" Acrylic Shower Receptor .....	587.19		57.43
22 42 23 00-0026	EA	60" x 60" Acrylic Shower Receptor .....	713.40		68.91
22 42 23 00-0027	EA	48" x 32" Acrylic Shower Receptor .....	509.29		57.43
22 42 23 00-0028	EA	48" x 36" Acrylic Shower Receptor .....	544.02		57.43
22 42 23 00-0029	EA	48" x 42" Acrylic Shower Receptor .....	608.63		57.43
22 42 23 00-0030	EA	60" x 30" Acrylic Shower Receptor .....	897.95		118.94
22 42 23 00-0031	EA	60" x 32" Acrylic Shower Receptor .....	680.53		68.91
22 42 23 00-0032	EA	60" x 36" Acrylic Shower Receptor .....	685.00		68.91
22 42 23 00-0033	EA	60" x 42" Acrylic Shower Receptor .....	689.10		68.91
22 42 23 00-0034	EA	60" x 48" Acrylic Shower Receptor .....	753.30		68.91
22 42 23 00-0035	EA	36" x 36" Acrylic Corner Shower Receptor .....	719.72		57.43
22 42 23 00-0036	EA	42" x 42" Acrylic Corner Shower Receptor .....	819.39		57.43
22 42 23 00-0037	EA	47-1/2" x 47-1/2" Acrylic Corner Shower Receptor .....	1,240.74		112.99
22 42 23 00-0038		<b>Molded Stone Shower Receptors</b> (22 42 23 00-0021)			
22 42 23 00-0039	EA	32" x 32" Molded Stone Shower Receptor (Fiat 32WL) .....	354.49		57.43
22 42 23 00-0040	EA	34" x 34" Molded Stone Shower Receptor (Fiat 34WL) .....	369.39		57.43
22 42 23 00-0041	EA	36" x 36" Molded Stone Shower Receptor (Fiat 36WL) .....	371.05		57.43
22 42 23 00-0042	EA	42" x 42" Molded Stone Shower Receptor (Fiat 4242WL) .....	444.72		57.43
22 42 23 00-0043	EA	42" x 34" Molded Stone Shower Receptor (Fiat 42WL) .....	400.02		57.43
22 42 23 00-0044	EA	48" x 32" Molded Stone Shower Receptor (Fiat 4832WL) .....	420.72		57.43
22 42 23 00-0045	EA	48" x 34" Molded Stone Shower Receptor (Fiat 48WL) .....	423.20		57.43
22 42 23 00-0046	EA	54" x 34" Molded Stone Shower Receptor (Fiat 54WL) .....	492.12		68.91
22 42 23 00-0047	EA	60" x 34" Molded Stone Shower Receptor (Fiat 60WL) .....	507.85		68.91
22 42 23 00-0048	EA	36" x 36" Molded Stone Corner Shower Receptor (Fiat 36WLC) .....	404.16		57.43
22 42 23 00-0049	EA	38" x 38" Molded Stone Corner Shower Receptor (Fiat 38WLC) .....	413.27		57.43
22 42 23 00-0050		<b>Precast Terrazzo Shower Receptors</b> (22 42 23 00-0021)			
22 42 23 00-0051	EA	30" x 30" Precast Terrazzo Shower Receptor .....	624.36		57.43
22 42 23 00-0052	EA	32" x 32" Precast Terrazzo Shower Receptor .....	646.71		57.43
22 42 23 00-0053	EA	34" x 34" Precast Terrazzo Shower Receptor .....	667.41		57.43
22 42 23 00-0054	EA	36" x 36" Precast Terrazzo Shower Receptor .....	669.89		57.43
22 42 23 00-0055	EA	40" x 40" Precast Terrazzo Shower Receptor .....	728.67		57.43
22 42 23 00-0056	EA	42" x 42" Precast Terrazzo Shower Receptor .....	758.47		57.43
22 42 23 00-0057	EA	48" x 48" Precast Terrazzo Shower Receptor .....	1,046.55		57.43
22 42 23 00-0058	EA	36" x 32" Precast Terrazzo Shower Receptor .....	662.44		57.43
22 42 23 00-0059	EA	42" x 32" Precast Terrazzo Shower Receptor .....	674.31		57.43
22 42 23 00-0060	EA	42" x 34" Precast Terrazzo Shower Receptor .....	695.55		57.43
22 42 23 00-0061	EA	42" x 36" Precast Terrazzo Shower Receptor .....	722.04		57.43
22 42 23 00-0062	EA	32" x 48" Precast Terrazzo Shower Receptor .....	724.53		57.43
22 42 23 00-0063	EA	48" x 34" Precast Terrazzo Shower Receptor .....	758.47		57.43
22 42 23 00-0064	EA	54" x 32" Precast Terrazzo Shower Receptor .....	792.41		57.43
22 42 23 00-0065	EA	60" x 30" Precast Terrazzo Shower Receptor .....	1,063.84		68.91
22 42 23 00-0066	EA	60" x 32" Precast Terrazzo Shower Receptor .....	1,157.77		68.91
22 42 23 00-0067	EA	60" x 34" Precast Terrazzo Shower Receptor .....	1,162.38		68.91



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Fixtures</b>	<b>22 40</b>
	<b>Commercial Plumbing Fixtures</b>	<b>22 42</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 23 00-0068 EA 60" x 36" Precast Terrazzo Shower Receptor.....	1,166.96	68.91
22 42 23 00-0069 EA 32" x 32" Precast Terrazzo Corner Shower Receptor.....	673.20	57.43
22 42 23 00-0070 EA 34" x 34" Precast Terrazzo Corner Shower Receptor.....	674.31	57.43
22 42 23 00-0071 EA 36" x 36" Precast Terrazzo Corner Shower Receptor.....	676.51	57.43
22 42 23 00-0072 EA 40" x 40" Precast Terrazzo Corner Shower Receptor.....	801.51	57.43
22 42 23 00-0073 EA 36" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor .....	1,418.24	57.43
22 42 23 00-0074 EA 60" x 30", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor .....	1,583.19	68.91
22 42 23 00-0075 EA 60" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor .....	1,647.76	68.91
<b>22 42 23 00-0076 Shower Receptors Accessories (22 42 23 00-0021)</b>		
22 42 23 00-0077 SF Polyvinyl Chloride (PVC) Shower Pan Liner.....	4.72	
<b>22 42 23 00-0078 Removal And Reinstallation Of Fixtures And Trim (22 42 23)</b>		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 23 00-0079 EA Removal And Reinstallation Of Shower Head .....	68.91	
<b>22 42 33 Wash Fountains (22 42)</b>		
<b>22 42 33 00-0001 Circular Wash Fountain, Deep Bowl (22 42 33)</b>		
Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.		
22 42 33 00-0002 EA 36" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2705F-A-LSD).....	8,863.13	213.74
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0003 EA 36" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2805F-A-LSD).....	5,125.78	213.74
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0004 EA 36" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3105AIRLSDE).....	8,755.22	213.74
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0005 EA 54" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2708F-A-LSD).....	11,273.84	244.27
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0006 EA 54" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2808F-A-LSD).....	5,912.00	244.27
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0007 EA 54" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3108AIRLSDE).....	10,480.28	244.27
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
<b>22 42 33 00-0008 Semi-Circular Wash Fountain, Deep Bowl (22 42 33)</b>		
Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.		
22 42 33 00-0009 EA 36" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2703F-A-LSD).....	7,730.24	183.20
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0010 EA 36" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2803F-A-LSD).....	4,669.63	183.20
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0011 EA 36" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3103AIRLSDE).....	6,655.98	183.20
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0012 EA 54" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2704F-A-LSD).....	9,476.70	213.74
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0013 EA 54" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2804F-A-LSD).....	5,628.48	213.74
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0014 EA 54" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3104AIRLSDE).....	7,914.30	213.74
For Metal Soap Dispenser, Add	100.00	
For Stainless Steel Pedestal Panels, Add	100.00	
<b>22 42 39 Commercial Faucets, Supplies, and Trim (22 42)</b>		
<b>22 42 39 00-0001 Kitchen Faucets (22 42 39)</b>		
22 42 39 00-0002 EA Top Cast Kitchen Faucet, Single Handle, Chrome Finish (Delta 140-DST).....	221.78	70.49
22 42 39 00-0003 EA Top Cast Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 440-DST) .....	246.03	70.49
22 42 39 00-0004 EA Top Cast Kitchen Faucet, Single Handle, Stainless Steel Finish (Delta 140-SS-DST).....	227.39	70.49
22 42 39 00-0005 EA Top Cast Kitchen Faucet With Spray, Single Handle, Stainless Steel Finish (Delta 440 -SS-DST).....	252.91	70.49

**22 Plumbing****22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0006 EA Top Cast Kitchen Faucet, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2102LF-LHP+H24).....	208.96	70.49
22 42 39 00-0007 EA Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2402LF-LHP+H24).....	226.05	70.49
22 42 39 00-0008 EA Top Cast Kitchen Faucet, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21987LF).....	283.64	70.49
22 42 39 00-0009 EA Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21996LF).....	211.37	70.49
22 42 39 00-0010 EA Bottom Mount Kitchen Faucet, Single Handle, Chrome Finish (Delta 101LF-WF).....	204.90	70.49
22 42 39 00-0011 EA Bottom Mount Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 175LF-WF).....	236.52	70.49
22 42 39 00-0012 EA Bottom Mount Kitchen Faucet, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2274-LHP+H24).....	383.00	70.49
22 42 39 00-0013 EA Bottom Mount Kitchen Faucet With Spray, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2276-LHP+H24).....	416.96	70.49
22 42 39 00-0014 EA Deck Mount Sink Faucet, 8" Center Set, Lever Handles (Chicago Faucet 1100 ABCP).....	397.59	76.57
22 42 39 00-0015 EA Deck Mount Sink Faucet, 8" Center Set, 4" Wristblade Handles (Chicago Faucet 1100-GN2AE3-317CP).....	395.93	76.57
22 42 39 00-0016 EA Deck Mount Gooseneck Sink Faucet, 4" Center Set, Blade Handles (Chicago Faucet 802-317CP).....	304.55	76.57
22 42 39 00-0017 EA Chrome Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041CR).....	654.03	70.49
22 42 39 00-0018 EA Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041NK).....	818.83	70.49
22 42 39 00-0019 EA Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041RB).....	873.76	70.49
22 42 39 00-0020 EA Chrome Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041CR).....	654.03	70.49
22 42 39 00-0021 EA Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041NK).....	818.83	70.49
22 42 39 00-0022 EA Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041RB).....	873.76	70.49
<b>22 42 39 00-0023 Lavatory Faucets (22 42 39)</b>		
22 42 39 00-0024 EA Single Handle Centerset Lavatory Faucet, Polished Chrome Finish (Delta Lahara 538-MPU-DST).....	253.10	50.75
22 42 39 00-0025 EA 4" Centerset Lavatory Faucet With Chrome Lever Handle (Delta 501LF-WF).....	182.94	50.75
22 42 39 00-0026 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2523LF-MPU).....	221.32	50.75
22 42 39 00-0027 EA 4" Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2529LF-HDM).....	240.46	50.75
22 42 39 00-0028 EA Classic Style Widespread Lavatory Faucet With Chrome Lever Handles (Delta 3530LF-MPU).....	289.89	50.75
22 42 39 00-0029 EA Widespread Lavatory Gooseneck Faucet With Chrome Lever Handles (Delta 3579LF-WFHDF).....	333.80	50.75
22 42 39 00-0030 EA Self Closing/Metered Faucet, Brass, Single Hole, Push Handle (Delta 86T104).....	213.07	50.75
22 42 39 00-0031 EA Self Closing/Metered Faucet, Double Hole, Push Handles (American Standard 1340.225.002).....	311.89	50.75
22 42 39 00-0032 EA Single Inlet, Push Handle Metering Faucet, ADA (Chicago Faucet 333-665).....	231.43	50.75
22 42 39 00-0033 EA 3" Reach, 4-Arm Handle Single Basin Faucet (T&S Brass 0710).....	236.24	50.75
22 42 39 00-0034 EA 3" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0712).....	280.33	50.75
22 42 39 00-0035 EA 4" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0805).....	275.12	50.75
22 42 39 00-0036 EA 4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Zurn Z81104).....	229.12	50.75
<b>22 42 39 00-0037 Bath And Shower Faucets (22 42 39)</b>		
<b>22 42 39 00-0038 Bath And Shower Faucets With Valve Body (22 42 39 00-0037)</b>		
22 42 39 00-0039 EA Single Lever Handle, Chrome Tub Filler, Pressure-Balance (American Standard T480 500).....	241.08	61.19
22 42 39 00-0040 EA Single Lever Handle, Chrome Shower Only, Pressure-Balance (American Standard T480.501).....	277.28	61.19
22 42 39 00-0041 EA Single Lever Handle, Chrome Shower And Tub Filler, Pressure-Balance (American Standard T480.502).....	300.48	61.19
22 42 39 00-0042 EA Two Lever Handle, Chrome Tub Filler (American Standard Colony Soft 3275.505).....	225.30	61.19
<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0043 EA Two Lever Handle, Chrome Shower Only (American Standard Colony Soft 3275.501).....	234.58	61.19
<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0044 EA Two Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3275.502).....	261.50	61.19
<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0045 EA Three Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3375.502).....	292.13	61.19
<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
<b>22 42 39 00-0046 Shower Valves And Trim (22 42 39)</b>		
<i>See CSI section 22 41 39 00-0011 for residential shower valves and heads.</i>		
22 42 39 00-0047 EA Senior Institutional Shower Head (Symmons® 4-150).....	235.28	61.19
22 42 39 00-0048 EA Universal Institutional Shower Head (Symmons® 4-151).....	373.48	61.19
22 42 39 00-0049 EA Fre-Flo Institutional Shower Head (Symmons® 4-295).....	271.66	61.19
22 42 39 00-0050 EA Fre-Flo Institutional Shower Head With Short Arm (Symmons® 4-385).....	212.07	61.19
22 42 39 00-0051 EA Wall Mounted Shower Valve And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-300-B30-V-X).....	827.30	91.64
22 42 39 00-0052 EA Wall Mounted Shower Valve, Tub Faucet, And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-400-B30-V-X).....	697.86	105.74
22 42 39 00-0053 EA Wall Mounted Shower Valve, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-500-B30-V-X).....	899.55	105.74
22 42 39 00-0054 EA Wall Mounted Shower Valve, Tub Faucet, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-600-B30-V-X).....	1,244.15	112.79
22 42 39 00-0055 EA Removable Hand Held Shower With Hose Wall Hook And Inline Vacuum Breaker (Powers 141-318 with 141-319).....	410.34	95.16
22 42 39 00-0056 EA Concealed Thermostatic/Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 2502-600CP).....	835.17	95.16
22 42 39 00-0057 EA Concealed Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 1762-ISCP).....	601.14	95.16
22 42 39 00-0058 EA Stainless Steel Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-801S/1-802S).....	1,131.83	95.16
<i>For Hand Spray, Hose And Wall Hooks, Add</i>	106.44	
<i>For Recessed Soap Dish, Add</i>	108.12	
<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	165.51	
<i>For Pressure Balance And Metering Combination, Add</i>	291.63	





<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Fixtures</b>	<b>22 40</b>	
<b>Commercial Plumbing Fixtures</b>	<b>22 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0059	EA		Stainless Steel Corner Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-807).....	1,333.25	95.16
			<i>For Hand Spray, Hose And Wall Hooks, Add</i>	106.44	
			<i>For Recessed Soap Dish, Add</i>	108.12	
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	165.51	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0060	EA		Stainless Steel Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S).....	928.79	95.16
			<i>For Hand Spray, Hose And Wall Hooks, Add</i>	19.32	
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	78.39	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0061	EA		Stainless Steel Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-911RS).....	1,368.66	95.16
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0062	EA		Stainless Steel Double Outlet Institutional Shower System With Thru-Ceiling Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-902S-FS).....	1,463.47	95.16
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0063	EA		Stainless Steel Institutional Triple Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-931).....	2,644.44	95.16
			<i>For Recessed Soap Dish, Add</i>	83.94	
			<i>For Pressure Balance And Metering Combination, Add</i>	227.79	
22 42 39 00-0064	EA		Stainless Steel Institutional Double Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-921).....	2,318.32	95.16
			<i>For Recessed Soap Dish, Add</i>	83.94	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0065	EA		Stainless Steel Tub And Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-941-231).....	1,196.42	95.16
22 42 39 00-0066	EA		Stainless Steel Double Outlet Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Hand Spray, Hose, Wall Hooks, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-912RS-FS).....	1,801.42	95.16
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0067	EA		Stainless Steel Single Supply Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-60).....	1,194.90	95.16
22 42 39 00-0068	EA		Stainless Steel Single Supply Single Outlet Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-22-FS).....	1,191.56	95.16
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
22 42 39 00-0069	EA		Single Lever Handle, Chrome, Pressure-Balance, Shower System (Symmons SafetyMix 1-100-X-3/4).....	875.12	84.59
22 42 39 00-0070	EA		Single Lever Handle, Chrome, Pressure-Balance, Shower Valve (Symmons SafetyMix 4-500).....	670.87	61.19
<b>22 42 39 00-0071</b>			<b>Service Sink Faucets (22 42 39)</b>		
22 42 39 00-0072	EA		4-5/8" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet With Lever Handles (Kohler® Kinlock™).....	512.60	117.37
22 42 39 00-0073	EA		3" Spout, Wall Mount, Service Sink Faucet With Lever Handles (American Standard 8340.235).....	383.21	117.37
22 42 39 00-0074	EA		3" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet With Lever Handles (American Standard 8340.243).....	408.27	117.37
22 42 39 00-0075	EA		6" Spout With Vacuum Breaker And Top Brace, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8344.012).....	421.27	117.37
22 42 39 00-0076	EA		7-1/4" Spout With Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8355.101).....	555.80	164.52
22 42 39 00-0077	EA		7-1/4" Spout With Vacuum Break And Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8355.110).....	624.46	187.50
22 42 39 00-0078	EA		11" Spout With Bottom Fork Brace, Stops In Integral Arm, Wall Mount Service Sink Faucet With Wrist Blade Handles (American Standard 8345.115).....	706.14	187.50
22 42 39 00-0079	EA		Wall Mount Service Sink Faucet With Atmospheric Vacuum Breaker Spout, Lever Handles (Chicago Faucet 305-VBRCF).....	418.53	117.37
22 42 39 00-0080	EA		8" Spout Wall Mount Service Sink, Wrist Blade Handles (Chicago 445-L8ABCP).....	633.48	187.50
22 42 39 00-0081	EA		44" Flexible Stainless Steel Hose With Insulated Handle, 23" Riser, Pre-Rinse Faucet (Chicago Faucet 923-XKCAB).....	829.40	187.50
<b>22 42 39 00-0082</b>			<b>Laboratory Faucets And Fittings (22 42 39)</b>		
22 42 39 00-0083	EA		Cold Faucet, Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 927).....	209.12	49.91
22 42 39 00-0084	EA		Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet (Chicago Faucet 929).....	336.78	70.49
22 42 39 00-0085	EA		Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet With Vacuum Breaker (Chicago Faucet 930).....	426.09	70.49
22 42 39 00-0086	EA		Cold Wall Mount, Gooseneck Spout With Aerator, Laboratory Faucet (Chicago Faucet 933).....	273.20	65.83
22 42 39 00-0087	EA		6" Spout With Aerator, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 940).....	373.54	93.89
22 42 39 00-0088	EA		6" Spout With Aerator And Vacuum Breaker, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 940-VBE7-CP).....	489.99	93.89
22 42 39 00-0089	EA		Dual Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Hot And Cold, Laboratory Faucet (Chicago Faucet 946).....	389.64	70.49
22 42 39 00-0090	EA		Gooseneck Spout With Aerator, Wall Mount, Hot And Cold, Laboratory Faucet (Chicago Faucet 942).....	394.70	93.89
22 42 39 00-0091	EA		Single Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 350-CP).....	254.82	54.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0092 EA Dual Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 50-CP).....	359.18	76.57
22 42 39 00-0093 EA 4" Center Set, Deck Mount, Lavatory Faucet With Blade Handles (Chicago Faucet 802).....	285.37	76.57
22 42 39 00-0094 EA 4" Center Set, Deck Mount, Gooseneck Sink Faucet With Blade Handles (Chicago Faucet 895-317ABCP).....	340.15	76.57
22 42 39 00-0095 EA Gas Ball Valve, Removable Nozzle, With Index Button (Chicago Faucet 909-AGVCP).....	102.05	47.09
22 42 39 00-0096 EA Dual Service Lab Fitting, Two Gas And One Water Outlet (Chicago Faucet 1332-CP).....	533.11	84.59
22 42 39 00-0097 EA Dual Service Lab Fitting With Wristblade Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-317CP).....	673.81	84.59
22 42 39 00-0098 EA Dual Service Lab Fitting With Metal Cross Handle, Inline Vacuum Breaker, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7-204CP).....	801.99	84.59
22 42 39 00-0099 EA Dual Service Lab Fitting With Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332- E22E7CP).....	713.97	84.59
22 42 39 00-0100 EA Dual Service Lab Fitting With Chemical Resistant Coating And Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7SAM).....	842.32	84.59
22 42 39 00-0101 EA Single, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-131WSA).....	174.89	46.53
22 42 39 00-0102 EA 90 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132AWSA).....	242.23	55.83
22 42 39 00-0103 EA 180 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132SWSA).....	242.23	55.83
22 42 39 00-0104 EA Three Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-133WSA).....	309.58	65.13
22 42 39 00-0105 EA Four Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-134WSA).....	376.92	74.44
<b>22 42 39 00-0106 Gooseneck Faucets With Independent Eyewash (22 42 39)</b>		
22 42 39 00-0107 EA Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA).....	918.30	52.86
22 42 39 00-0108 EA Single Lever Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-SL).....	992.30	49.34
22 42 39 00-0109 EA 8" Stem, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800- CA-8).....	1,276.61	52.86
22 42 39 00-0110 EA Serrated Tip With Vacuum Breaker, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-ST).....	1,347.15	52.86
22 42 39 00-0111 EA Thermostatic Mixing Valve Kit For The SEF-1800 (Speakman SEF-TW).....	1,624.81	35.25
22 42 39 00-0112 EA Foot Pedal Activation, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-FP).....	1,976.78	88.11
22 42 39 00-0113 EA Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-TW).....	2,746.25	88.11
22 42 39 00-0114 EA 8" Stem, Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8TW).....	2,836.02	88.11
22 42 39 00-0115 EA Adjustable Aerated Outlet Heads, Gooseneck Faucet Mounted Eyewash (WaterSaver EW101).....	342.54	53.60
22 42 39 00-0116 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW200).....	374.98	53.60
22 42 39 00-0117 EA Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW201).....	403.31	53.60
22 42 39 00-0118 EA 6 Gallon Capacity, Tempering Valve (WaterSaver AP3600).....	1,703.37	35.25
<b>22 42 39 00-0119 Bubblers And Glass Fillers (22 42 39)</b>		
22 42 39 00-0120 EA Self-Closing Bubbler Faucet, Metering Handle (Chicago Faucet 748-665CP).....	350.20	49.91
22 42 39 00-0121 EA Wall Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 313-CP).....	322.61	65.83
22 42 39 00-0122 EA 7" Overall Outlet Height, Deck Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 709-CP).....	345.76	49.91
22 42 39 00-0123 EA Wall Mount, Push Button Single Glass Filler (Chicago Faucet 324-CP).....	233.63	71.51
22 42 39 00-0124 EA Deck Mount, Lever Handle Drinking Faucet (Haws 5054LF).....	407.88	54.21
22 42 39 00-0125 EA Push Button Bubbler, 1/2" OD (Haws 5017LF).....	412.98	54.21
22 42 39 00-0126 EA Push Button Bubbler, 3/8" NPT (Haws 5010-6427).....	348.48	54.21
<b>22 42 39 00-0127 Automatic Electronic Sensor Faucets (22 42 39)</b>		
22 42 39 00-0128 EA Electronic Lavatory Faucet (American Standard 6055.205.002).....	653.31	117.58
For Faucet With Temperature Control, Add	40.00	
22 42 39 00-0129 EA Electronic Lavatory Gooseneck Faucet (American Standard 6055.105.002).....	658.88	117.58
For Faucet With Temperature Control, Add	40.00	
22 42 39 00-0130 EA Electronic Gooseneck Faucet (Chicago Faucet 116.103.AB.1).....	868.62	127.71
22 42 39 00-0131 EA Electronic Lavatory Faucet (Chicago Faucet 116.112.AB.1).....	897.64	117.58
22 42 39 00-0132 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880).....	1,309.63	127.71
22 42 39 00-0133 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880-BDT).....	1,623.45	127.71
22 42 39 00-0134 EA Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-35187).....	1,520.55	127.71
22 42 39 00-0135 EA Solar Powered, Electronic Lavatory Faucet With Integral Mixing Valve (Sloan Solis EAF-275-ISM).....	1,075.53	117.58
22 42 39 00-0136 EA Deck Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1100).....	1,075.81	117.58
22 42 39 00-0137 EA Wall Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1101).....	1,134.48	117.58
22 42 39 00-0138 EA Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC1102).....	987.81	117.58
22 42 39 00-0139 EA Deck Mount, DC Power, Electronic Lavatory Faucet (T&S Brass EC2100).....	1,134.48	117.58
22 42 39 00-0140 EA Deck Mount, DC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC2102).....	995.98	117.58
22 42 39 00-0141 EA Deck Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3100).....	995.98	117.58
22 42 39 00-0142 EA Wall Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3101).....	1,116.60	117.58
22 42 39 00-0143 EA Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC3102).....	952.77	117.58
22 42 39 00-0144 EA 4" Deck Mount, AC Power, Spout Version, Electronic Lavatory Faucet (T&S Brass EC3103).....	915.76	117.58
22 42 39 00-0145 EA Self-Generating EcoPower System, Single Supply Sensor Faucet, Standard Spout (Toto "Eco-Power" TEL3GKCN-60).....	1,276.12	117.58
<b>22 42 39 00-0146 Singles (22 42 39)</b>		
22 42 39 00-0147 EA Stainless Steel Single Deck Faucet With 6" Swivel/Rigid Gooseneck Spout And Lever Handles (Fisher 58130).....	255.22	51.74
<b>22 42 39 00-0148 Other Trim (22 42 39)</b>		
22 42 39 00-0149 EA Faucet Aerator, Male Thread 13/16" Male, 2 GPM (Delta RP330).....	22.21	7.66
22 42 39 00-0150 EA 1-1/2" Pop-up Tailpiece (Chicago Faucet 226-ACP).....	146.85	22.97
22 42 39 00-0151 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Angle Stop (SharkBite 23036).....	43.92	14.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0152 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Straight Stop (SharkBite 23037).....	43.92	14.80
22 42 39 00-0153 EA 1/2" NPT x 3/8" Compression Chrome, Quarter Turn Dual Angle Stop (SharkBite 25558) .....	56.97	14.80
22 42 39 00-0154 PR Pair of 16" Long, 3/8" OD x 1/2" IPS, Stainless Steel Braided Sink Supply Line .....	43.13	16.27
22 42 39 00-0155 EA 12" Long, 3/8" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line.....	26.48	9.57
22 42 39 00-0156 EA 12" Long, 1/2" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line.....	27.07	9.57
<b>22 42 39 00-0157 Removal And Reinstallation Of Fixtures And Trim (22 42 39)</b>		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 39 00-0158 EA Removal And Reinstallation Of Faucet.....	122.50	
<b>22 42 43 Flushometers (22 42)</b>		
<b>22 42 43 00-0001 Water Closet Flush Valves (22 42 43)</b>		
22 42 43 00-0002 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-115XL) .....	346.79	48.08
22 42 43 00-0003 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-113-1.6).....	336.45	48.08
22 42 43 00-0004 EA Exposed Manual Water Closet Flush Valve (Sloan Regal-110 Or 111).....	388.33	48.08
22 42 43 00-0005 EA Back Spud, Concealed Manual Water Closet Flush Valve (Sloan Royal-140).....	535.13	48.08
22 42 43 00-0006 EA Top Spud, Concealed Manual Water Closet Flush Valve (Sloan Royal-142).....	593.45	48.08
22 42 43 00-0007 EA Exposed Infrared Water Closet Flush Valve (Sloan Royal 115-1.6 ES-S).....	1,072.19	48.08
22 42 43 00-0008 EA Concealed Infrared Water Closet Flush Valve, Back Spud (Sloan Royal-140 ES-S).....	1,077.70	48.08
22 42 43 00-0009 EA Concealed Infrared Water Closet Flush Valve, Top Spud (Sloan Royal-153-1.6-ES-S) .....	1,136.52	48.08
22 42 43 00-0010 EA Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8113) .....	1,057.55	48.08
22 42 43 00-0011 EA Dual Flush Water Closet Flush Valve (Sloan Uppercut WES-115).....	475.64	48.08
Note: "Green", 1.6 Gallons or 1.1 Gallons per flush. Includes instructional placards on proper operation.		
22 42 43 00-0012 EA Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8110) .....	744.66	48.08
22 42 43 00-0013 EA Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima EBV-89A) .....	464.37	48.08
22 42 43 00-0014 EA Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40118X).....	462.23	48.08
22 42 43 00-0015 EA Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima Smooth EBV-200A) .....	462.07	42.29
22 42 43 00-0016 EA Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40180X).....	501.70	42.29
22 42 43 00-0017 EA 1.28 GPF, Exposed Infrared Water Closet Flush Valve (Toto EcoPower TET1LN).....	1,087.41	48.08
22 42 43 00-0018 EA Exposed Infrared Water Closet Flush Valve (1-1/2" V.B.) 1.28 GPF (Toto EcoPower TET1LN32) .....	1,189.91	48.08
22 42 43 00-0019 EA 1.28 GPF, Back Spud, Concealed Infrared Water Closet Flush Valve (Toto EcoPower TET2LN31 Or TET3LN31) .....	1,513.40	48.08
22 42 43 00-0020 EA 1.28 GPF, Top Spud, Concealed Infrared Water Closet Flush Valve (Toto EcoPower TET2LN32 Or TET3LN32) .....	1,513.40	48.08
22 42 43 00-0021 EA Exposed Infrared Water Closet Flush Valve (Zurn ZEMS6000AV-HET-IS).....	985.13	48.08
22 42 43 00-0022 EA Exposed Infrared Water Closet Flush Valve (Zurn ZTS6200EV).....	977.07	48.08
22 42 43 00-0023 EA Slide Over Handle AC Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan EL-600-A) .....	484.30	42.29
22 42 43 00-0024 EA 6 Volt DC, 120 Volt AC Hardwired Power Transformer (Sloan EL-451) .....	151.44	7.70
22 42 43 00-0025 EA Exposed Solar/Battery Powered Water Closet Flush Valve (Sloan Solis 8111-1.28) .....	597.62	48.08
22 42 43 00-0026 EA Exposed Manual Water Closet Flush Valve (Zurn Z6000AV-HET).....	372.00	48.08
22 42 43 00-0027 EA Exposed Battery Powered Water Closet Flush Valve (Zurn ZER6000AV-HET).....	1,007.33	48.08
<b>22 42 43 00-0028 Urinal Flush Valves (22 42 43)</b>		
22 42 43 00-0029 EA 3/4" Top Spud, Exposed Manual Urinal Flush Valve (Sloan Regal 186 XL) .....	267.61	48.08
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 43 00-0030 EA 1-1/4" Top Spud, Exposed Manual Urinal Flush Valve (Sloan Regal 180) .....	286.01	48.08
Note: 1.0, 1.5 or 3.5 GPF.		
22 42 43 00-0031 EA Back Spud, Concealed Manual Urinal Flush Valve (Sloan Royal 195).....	373.89	48.08
Note: 1.0 or 1.5 GPF.		
22 42 43 00-0032 EA Top Spud, Concealed Manual Urinal Flush Valve (Sloan Royal 197).....	446.29	48.08
Note: 1.0 or 1.5 GPF.		
22 42 43 00-0033 EA Exposed Infrared Urinal Flush Valve (Sloan Royal 186-ES-S).....	684.94	48.08
Note: 1.0 or 1.5 GPF.		
22 42 43 00-0034 EA Back Spud, Concealed Infrared Urinal Flush Valve (Sloan Royal 195-WB-ES-S).....	910.22	48.08
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 43 00-0035 EA Top Spud, Concealed Infrared Urinal Flush Valve (Sloan Royal 197-WB-ES-S).....	1,017.52	48.08
Note: 0.5, 1.0 or 1.5 GPF.		
22 42 43 00-0036 EA Top Spud, Exposed Battery Powered Urinal Flush Valve (Sloan G2 Opt+8186-1).....	674.17	48.08
Note: 1.0 GPF.		
22 42 43 00-0037 EA Exposed Infrared Urinal Flush Valve (3/4" V.B.) (Toto EcoPower TEU1LN12).....	1,183.31	48.08
Note: 0.5 GPF.		
22 42 43 00-0038 EA Top Spud, Exposed Solar/Battery Powered Urinal Flush Valve (Sloan Solis 8186-0.13).....	527.13	48.08
Note: 0.13 GPF.		
22 42 43 00-0039 EA 3/4" Top Spud, Exposed Manual Urinal Flush Valve (Zurn Z6003AV-ULF).....	302.14	48.08
Note: 0.125 GPF.		
22 42 43 00-0040 EA Top Spud, Exposed Battery Powered Urinal Flush Valve (Zurn ZTR6203-ULF) .....	724.74	48.08
Note: 0.125 GPF.		
22 42 43 00-0041 EA Exposed Infrared Urinal Flush Valve (Zurn ZEMS6003AV-ULF-IS).....	740.44	48.08
Note: 0.125 GPF.		
<b>22 42 43 00-0042 Removal And Reinstallation Of Fixtures And Trim (22 42 43)</b>		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 43 00-0043 EA Removal And Reinstallation Of Flush Valve .....	191.41	
<b>22 42 43 00-0044 Plumbing Control Transformers (22 42 43)</b>		

**22 Plumbing****22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 43 00-0045 EA 6 Volt DC, 120 Volt AC Plug In Style Power Transformer (Zurn P6000-PC6).....	69.23	
<b>22 42 46 Chemical Toilets (22 42)</b>		
Note: Includes toilet, urinal, holding tank, and ventilation system. Building to be priced separately.		
<b>22 42 46 00-0001 Standard Chemical Toilets (22 42 46)</b>		
<b>22 42 46 00-0002 Small Tank Chemical Toilets (22 42 46 00-0001)</b>		
22 42 46 00-0003 EA Chemical Toilet, Small Tank 7,000 Uses/Year.....	5,810.13	1,409.81
For Extra Urinal, Add	186.27	
<b>22 42 46 00-0004 Medium Tank Chemical Toilets (22 42 46 00-0001)</b>		
22 42 46 00-0005 EA Chemical Toilet, Medium Tank 13,000 Uses/Year.....	6,907.06	1,679.08
For Extra Urinal, Add	220.77	
<b>22 42 46 00-0006 Large Tank Chemical Toilets (22 42 46 00-0001)</b>		
22 42 46 00-0007 EA Chemical Toilet, Large Tank 28,000 Uses/Year .....	8,227.60	1,904.65
For Extra Urinal, Add	289.90	
<b>22 43 Healthcare Plumbing Fixtures (22 40)</b>		
<b>22 43 13 Healthcare Water Closets (22 43)</b>		
<b>22 43 13 00-0001 Healthcare Water Closets (22 43 13)</b>		
22 43 13 00-0002 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Priolo® ADA).....	1,013.96	146.62
22 43 13 00-0003 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Madera™ ADA).....	834.96	146.62
<b>22 43 16 Healthcare Sinks (22 43)</b>		
<b>22 43 16 00-0001 Healthcare Sinks (22 43 16)</b>		
Note: Includes trap, drain and supply valves. Excludes faucets and flush valves.		
22 43 16 00-0002 EA 25" x 21", Wall Mounted, Blow Out Flushing Rim, Vitreous China Clinic Service Sink (American Standard) .....	1,315.60	94.45
For Stainless Steel Rim Guards (Three Sides), Add	108.61	
22 43 16 00-0003 EA 29" x 20", Floor Mounted, Siphon Jet Flushing Rim, Vitreous China Clinic Service Sink (American Standard).....	1,452.34	271.38
For Stainless Steel Rim Guards (Three Sides), Add	108.61	
For Pedestal Base, Add	497.95	
22 43 16 00-0004 EA 28" x 22", Wall Mounted, Vitreous China Surgeon's Scrub Sink (American Standard).....	1,267.78	94.45
For Painted Bracket Supports, Add	185.13	
22 43 16 00-0005 EA 20" x 17", Wall Mounted, Vitreous China Intensive Care Unit Sink (American Standard).....	1,124.34	94.45
<b>22 43 39 Healthcare Faucets (22 43)</b>		
<b>22 43 39 00-0001 Medical Faucet Spouts (22 43 39)</b>		
22 43 39 00-0002 EA Deck Mounted, Rigid Gooseneck Medical Lavatory Spout (American Standard 7522) .....	111.54	21.15
<b>22 43 39 00-0003 Electronic Proximity Medical Faucets (22 43 39)</b>		
22 43 39 00-0004 EA DC Or Plug-In AC Powered, Single Inlet, Electronic Proximity Medical Lavatory Faucet (American Standard Selectronic™ ICU).....	614.38	103.48
For Hard Wired AC Powered, Add	24.73	
<b>22 43 39 00-0005 Foot And Knee Faucet Controls (22 43 39)</b>		
22 43 39 00-0006 EA Single Supply Metering Pedal Valve (Chicago Faucet 628).....	464.47	188.07
22 43 39 00-0007 EA Double Supply Metering Pedal Valve (Chicago Faucet 625) .....	528.52	188.07
22 43 39 00-0008 EA Knee Actuated Metering Mixing Valve (Chicago Faucet 745-VOC) .....	1,022.17	188.07
22 43 39 00-0009 EA Double Knee Actuated Metering Mixing Valve (American Standard 7676).....	740.55	188.07
<b>22 43 39 00-0010 Centerset Medical Faucets (22 43 39)</b>		
22 43 39 00-0011 EA Rigid Gooseneck Centerset Medical Lavatory Faucet, 8" Centers 6" Wrist Action Handles, Adjustable Centers (T&S B-0865-04) .....	558.27	103.48
22 43 39 00-0012 EA Swivel Gooseneck Centerset Medical Lavatory Faucet, 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0866-04) .....	564.07	103.48
22 43 39 00-0013 EA Swivel Gooseneck Centerset Medical Lavatory Faucet With Aerator 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0867-04) .....	563.48	103.48
22 43 39 00-0014 EA Surgical Sink Rigid Gooseneck Faucets, 8" Centers, 6" Wrist Action Handles (T&S B-0322-04).....	508.38	103.48
22 43 39 00-0015 EA Surgical Sink Rigid Gooseneck Faucets With Stream Regulator Outlet, 8" Centers, 6" Wrist Action Handles (T&S B-0323-04).....	488.65	103.48
<b>22 43 39 00-0016 Bedpan Washers (22 43 39)</b>		
22 43 39 00-0017 EA Self Closing Pedal Valve Bed Pan Washer, With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose (T&S B-0675).....	1,298.04	188.07



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Fixtures</b>	<b>22 40</b>	
<b>Healthcare Plumbing Fixtures</b>	<b>22 43</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 43 39 00-0018 EA Pedal Valve Bed Panwasher With Volume Control Valve, Vacuum Breaker, Wall Hook Hose Connection, Extended Spray Polyvinyl Chloride Hose (T&S B-0676) .....	1,237.30	188.07
22 43 39 00-0019 EA Self Closing Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection Polyvinyl Chloride Hose (T&S B-0685) .....	1,219.31	188.07
22 43 39 00-0020 EA Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose, Extended Spray (T&S B-0686) .....	1,201.82	188.07
<b>22 43 43 Healthcare Plumbing Fixture Flushometers (22 43)</b>		
<b>22 43 43 00-0001 Healthcare Plumbing Fixture Flushometers (22 43 43)</b>		
22 43 43 00-0002 EA Exposed Manual Service Sink Flush Valve (Sloan Royal-117) .....	256.68	48.08
22 43 43 00-0003 EA Exposed Manual Water Closet Flush Valve With Bedpan Washer (Sloan Slimline BPW) .....	535.70	48.08
<b>22 43 46 Healthcare Patient Care Units (22 43)</b>		
<b>22 43 46 00-0001 Patient Care Units (22 43 46)</b>		
22 43 46 00-0002 EA 47" Swivel Toilet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-1700-AQCT-WB-BWSEV) .....	19,927.02	281.96
For SDB Single Temperature Dialysis Box, Add	1,440.24	
For DDB Dual Temperature Dialysis Box, Add	1,529.70	
For BWSEV Bedpan Washer With Elevated Valve, Add	1,159.70	
For LOCK Flush Valve Lockout Device, Add	811.81	
22 43 46 00-0003 EA 31" Swing Front Cabinet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-2600-SST-DC-AQCT-WB) .....	15,720.26	246.72
For SDB Single Temperature Dialysis Box, Add	1,440.24	
For DDB Dual Temperature Dialysis Box, Add	1,529.70	
For BWSEV Bedpan Washer With Elevated Valve, Add	1,159.70	
For LOCK Flush Valve Lockout Device, Add	811.81	
<b>22 43 46 00-0004 Patient Care Plumbing Accessories (22 43 46)</b>		
22 43 46 00-0005 EA One Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7920) .....	1,893.47	38.28
22 43 46 00-0006 EA Two Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7919) .....	2,084.45	38.28
<b>22 45 Emergency Plumbing Fixtures (22 40)</b>		
<b>22 45 13 Emergency Showers (22 45)</b>		
<b>22 45 13 00-0001 Emergency Drench Showers (22 45 13)</b>		
<b>22 45 13 00-0002 Emergency Drench Showers (Haws) (22 45 13 00-0001)</b>		
Note: Includes one pull rod.		
22 45 13 00-0003 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122) .....	820.90	246.72
22 45 13 00-0004 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8123) .....	922.52	246.72
22 45 13 00-0005 EA Horizontal Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122HWC) .....	978.98	246.72
22 45 13 00-0006 EA Horizontal Or Vertical Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8130) .....	1,148.36	246.72
22 45 13 00-0007 EA Horizontal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8133H) .....	1,498.40	246.72
22 45 13 00-0008 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8100) .....	1,230.14	281.96
22 45 13 00-0009 EA Wall Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Stainless Steel Push Flag (Haws 8111FP) .....	1,351.44	317.21
22 45 13 00-0010 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8169) .....	1,244.17	317.21
22 45 13 00-0011 EA Concealed Ceiling Supply, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8163) .....	1,266.76	317.21
22 45 13 00-0012 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Pull Down Lever Ball Valve Mounted In A Recessed Stainless Steel Cabinet (Haws 8164) .....	1,690.19	317.21
<b>22 45 13 00-0013 Emergency Drench Showers (Speakman) (22 45 13 00-0001)</b>		
Note: Includes one pull rod.		
22 45 13 00-0014 EA Vertical Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-220) .....	740.70	246.72
22 45 13 00-0015 EA Horizontal Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-227) .....	759.16	246.72
22 45 13 00-0016 EA Floor Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-253) .....	1,139.49	281.96
<b>22 45 13 00-0017 Emergency Drench Showers (WaterSaver) (22 45 13 00-0001)</b>		
Note: Includes one pull rod.		
22 45 13 00-0018 EA Emergency Shower, Vertically Mounted (WaterSaver ES635) .....	966.41	246.72
22 45 13 00-0019 EA Emergency Shower, Horizontally Mounted (WaterSaver ES643) .....	987.10	246.72
22 45 13 00-0020 EA All-Stainless Steel, Emergency Shower, Horizontally Mounted (WaterSaver ES691) .....	2,000.00	246.72
22 45 13 00-0021 EA Emergency Shower, Recess Mounted (WaterSaver ES629) .....	1,504.07	317.21
22 45 13 00-0022 EA Emergency Shower, Semi-Concealed (WaterSaver ES658) .....	1,972.05	317.21
<b>22 45 16 Eyewash Equipment (22 45)</b>		
<b>22 45 16 00-0001 Emergency Eyewash Equipment (22 45 16)</b>		

**22 Plumbing****22 40 Plumbing Fixtures****22 45 Emergency Plumbing Fixtures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 16 00-0002			<b>Emergency Eyewash Equipment (Haws)</b> (22 45 16 00-0001)		
22 45 16 00-0003	EA		Faucet Mounted, Stainless Steel Emergency Eyewash (Haws Axion® eyePOD® 7620).....	307.68	7.05
22 45 16 00-0004	EA		Wall Mounted, Freeze Protected, Emergency Eye Wash With Soft-Flo Heads And Stainless Steel Bowl (Haws 7433FP).....	1,599.86	317.21
22 45 16 00-0005			<b>Emergency Eyewash Equipment (WaterSaver)</b> (22 45 16 00-0001)		
22 45 16 00-0006	EA		Auto Flow, Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805).....	886.27	70.49
22 45 16 00-0007	EA		Auto Flow, Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805LH).....	886.27	70.49
22 45 16 00-0008	EA		Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806).....	901.94	70.49
22 45 16 00-0009	EA		Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806LH).....	901.94	70.49
22 45 16 00-0010	EA		Stainless Steel Bowl, Emergency Eye Wash, Deck Mounted (WaterSaver EW822).....	1,189.64	70.49
22 45 16 00-0011	EA		Swing-Down, Auto Flow, Emergency Eye Wash, Wall Mounted (WaterSaver EW848).....	1,351.72	70.49
22 45 16 00-0012	EA		Swing-Down, Auto Flow, Emergency Eye Wash, Deck Mounted (WaterSaver EW849).....	1,351.72	70.49
22 45 16 00-0013	EA		Right Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893).....	2,482.12	70.49
22 45 16 00-0014	EA		Left Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893LH).....	2,482.12	70.49
22 45 16 00-0015	EA		Right Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895).....	2,596.16	70.49
22 45 16 00-0016	EA		Left Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895LH).....	2,596.16	70.49
22 45 16 00-0017	EA		Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Wall Mounted (WaterSaver EW898).....	3,196.29	70.49
22 45 16 00-0018	EA		Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW899).....	3,196.29	70.49
22 45 16 00-0019	EA		Ball Valve With Flag Handle, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW808).....	1,675.99	246.72
22 45 16 00-0020	EA		Push-Down Valve, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW810).....	1,653.87	246.72
22 45 16 00-0021	EA		Stainless Steel Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814).....	1,217.88	246.72
22 45 16 00-0022	EA		Stainless Steel Bowl And Cover, Emergency Eye Wash, Wall Mounted (WaterSaver EW814BC).....	1,677.66	246.72
22 45 16 00-0023	EA		Plastic Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814P).....	1,053.72	246.72
22 45 23			<b>Personal Eyewash Equipment</b> (22 45)		
22 45 23 00-0001			<b>Portable Eyewash Equipment</b> (22 45 23)		
22 45 23 00-0002			<b>Portable Eyewash Equipment (Bradley)</b> (22 45 23 00-0001)		
22 45 23 00-0003	EA		Wall Mounted, Portable Gravity Fed Eyewash Unit With Clear Tank (Bradley S19-921).....	314.69	21.15
22 45 23 00-0004	EA		Wall Mounted, Portable Gravity Fed Eyewash Unit With Insulated Heater Jacket (Bradley S19-921H).....	1,605.89	21.15
22 45 23 00-0005	EA		5 Gallon Portable Pressurized Tank With Eyewash Only (Bradley S19-671).....	727.80	
22 45 23 00-0006	EA		5 Gallon Portable Pressurized Tank With Eyewash And 8' Drench Hose For Facewash (Bradley S19-672).....	868.20	
22 45 26			<b>Eye/Face Wash Equipment</b> (22 45)		
22 45 26 00-0001			<b>Emergency Eye/Face Wash Equipment</b> (22 45 26)		
22 45 26 00-0002			<b>Emergency Eye/Face Wash Equipment (Haws)</b> (22 45 26 00-0001)		
22 45 26 00-0003	EA		Unmounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7460).....	843.64	176.23
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0004	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly Without Receptor (Haws 7324).....	883.00	246.72
22 45 26 00-0005	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260B-7270B).....	866.07	246.72
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0006	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260BT-7270BT).....	932.69	246.72
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0007	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360B-7460B).....	939.46	246.72
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0008	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BT-7460BT).....	1,019.63	246.72
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0009	EA		Wall Mounted, Barrier-Free, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BTWC).....	1,340.32	246.72
22 45 26 00-0010	EA		Wall Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl And Dust Cover (Haws 7778B).....	2,413.03	246.72
22 45 26 00-0011	EA		Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7261-7271).....	1,072.06	281.96
22 45 26 00-0012	EA		Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7361-7461).....	1,201.91	281.96
22 45 26 00-0013	EA		Pedestal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7777).....	2,511.75	281.96
22 45 26 00-0014	EA		Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7611).....	666.04	70.49
22 45 26 00-0015	EA		Right Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612).....	643.46	70.49
22 45 26 00-0016	EA		Left Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612LH).....	671.69	70.49
22 45 26 00-0017	EA		Wall Or Deck Mounted, Barrier-Free, Swing-Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7610).....	835.42	70.49
22 45 26 00-0018	EA		Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCC).....	2,127.66	352.45
22 45 26 00-0019	EA		Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCSM).....	2,500.46	281.96



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Fixtures</b>	<b>22 40</b>	
<b>Emergency Plumbing Fixtures</b>	<b>22 45</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 26 00-0020 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCC).....	2,601.92	352.45
22 45 26 00-0021 EA Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCSM).....	2,986.00	281.96
<b>22 45 26 00-0022 Emergency Eye/Face Wash Equipment (Speakman) (22 45 26 00-0001)</b>		
22 45 26 00-0023 EA Wall Mounted, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-495).....	817.64	246.72
22 45 26 00-0024 EA Floor Mounted, DuraJade™ Finish, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-496).....	991.75	281.96
<b>22 45 26 00-0025 Emergency Eye/Face Wash Equipment (WaterSaver) (22 45 26 00-0001)</b>		
22 45 26 00-0026 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl, Wall Mounted (WaterSaver FE724).....	1,506.41	246.72
22 45 26 00-0027 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl And Cover, Wall Mounted (WaterSaver FE724BC).....	1,966.20	246.72
22 45 26 00-0028 EA Wide Area, Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE727).....	1,907.75	246.72
22 45 26 00-0029 EA Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE765).....	1,768.27	246.72
22 45 26 00-0030 EA Auto Flow, Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774).....	931.90	70.49
22 45 26 00-0031 EA Auto Flow, Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774LH).....	931.90	70.49
22 45 26 00-0032 EA Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775).....	904.69	70.49
22 45 26 00-0033 EA Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775LH).....	904.69	70.49
22 45 26 00-0034 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Wall Mounted (WaterSaver FE778).....	1,372.17	70.49
22 45 26 00-0035 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE779).....	1,372.17	70.49
<b>22 45 26 00-0036 Emergency Eye/Face Wash Equipment (Guardian) (22 45 26 00-0001)</b>		
Note: Includes one pull rod.		
22 45 26 00-0037 EA All-Stainless Steel Handicapped Accessible Safety Station With WideArea™ Eye/Face Wash (Guardian GBF1994).....	5,646.98	246.72
<b>22 45 29 Hand-Held Emergency Drench Hoses (22 45)</b>		
<b>22 45 29 00-0001 Hand-Held Emergency Eye/Face/Body Wash With Hose (22 45 29)</b>		
<b>22 45 29 00-0002 Hand-Held Emergency Eye/Face/Body Wash With Hose (Haws) (22 45 29 00-0001)</b>		
22 45 29 00-0003 EA Counter Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 8' Hose (Haws 8904).....	718.23	88.11
22 45 29 00-0004 EA Wall Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 12' Recoil Hose (Haws 8905).....	819.86	88.11
<b>22 45 29 00-0005 Hand-Held Emergency Eye/Face/Body Wash With Hose (WaterSaver) (22 45 29 00-0001)</b>		
22 45 29 00-0006 EA Emergency Drench Hose Unit, Deck Mounted (WaterSaver EW1020).....	724.57	88.11
22 45 29 00-0007 EA Emergency Drench Hose Unit, Wall Mounted (WaterSaver EW1025).....	669.96	88.11
22 45 29 00-0008 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1014).....	991.25	88.11
22 45 29 00-0009 EA Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1022).....	930.48	88.11
22 45 29 00-0010 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1026).....	952.24	88.11
22 45 29 00-0011 EA Ball Valve With Flag Handle, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028).....	1,238.75	88.11
22 45 29 00-0012 EA Ball Valve With Flag Handle And Vacuum Breaker, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028VB).....	1,429.30	88.11
22 45 29 00-0013 EA Emergency Eye Wash Drench Hose Unit, 45 Degree Panel Mounted (WaterSaver EW1041).....	1,364.68	88.11
<b>22 45 33 Combination Emergency Fixture Units (22 45)</b>		
<b>22 45 33 00-0001 Emergency Shower With Eye/Face Wash (22 45 33)</b>		
<b>22 45 33 00-0002 Emergency Shower With Eye/Face Wash (Haws) (22 45 33 00-0001)</b>		
22 45 33 00-0003 EA Floor Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8330).....	4,219.19	458.19
22 45 33 00-0004 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300FP).....	2,931.94	458.19
Note: Includes freeze protection bury valve.		
22 45 33 00-0005 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300-8309).....	2,113.29	458.19
22 45 33 00-0006 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300.158).....	3,225.52	458.19
22 45 33 00-0007 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300CRP-8309CRP).....	2,429.46	458.19
22 45 33 00-0008 EA Floor Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8309WC).....	2,299.60	458.19
22 45 33 00-0009 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317).....	2,000.37	458.19
22 45 33 00-0010 EA Floor Mounted, Corrosion Resistant, PVC Plastic, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8336).....	3,123.90	458.19
22 45 33 00-0011 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Stainless Steel Showerhead Assembly With Stainless Steel Cabinet And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCC).....	3,400.54	458.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 33 00-0012 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCW).....	3,462.65	458.19
22 45 33 00-0013 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCC).....	3,840.92	458.19
22 45 33 00-0014 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan, Daylight Drain And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCDD).....	4,061.11	458.19
22 45 33 00-0015 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCW).....	3,999.00	458.19
22 45 33 00-0016 EA Floor Mounted, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP).....	5,862.13	458.19
22 45 33 00-0017 EA Floor Mounted, 220 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP.220V).....	6,167.01	458.19
22 45 33 00-0018 EA Floor Mounted, C1D1 Rated, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFPC1D1).....	12,772.65	458.19
22 45 33 00-0019 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8320-8325).....	2,000.37	458.19
22 45 33 00-0020 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320CRP).....	2,231.85	458.19
<b>22 45 33 00-0021 Emergency Shower With Eye/Face Wash (Speakman)</b> (22 45 33 00-0001)		
22 45 33 00-0022 EA Floor Mounted, Emergency Drench Shower With Plastic Showerhead And Eye/Face Wash With Plastic Bowl (Speakman SE-690).....	1,914.51	458.19
<b>22 45 33 00-0023 Emergency Shower With Eye/Face Wash (WaterSaver)</b> (22 45 33 00-0001)		
22 45 33 00-0024 EA All-Stainless Steel, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS994).....	6,459.77	382.83
22 45 33 00-0025 EA Polished Chrome Construction, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS909PCC).....	6,598.34	382.83
22 45 33 00-0026 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl, Floor Mounted (WaterSaver SS902).....	2,693.12	382.83
22 45 33 00-0027 EA Emergency Shower With Eye Wash Station And Plastic Bowl, Floor Mounted (WaterSaver SS902P).....	2,477.53	382.83
22 45 33 00-0028 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl And Cover, Floor Mounted (WaterSaver SS902BC).....	3,152.91	382.83
<b>22 45 36 Emergency Fixture Water-Tempering Equipment</b> (22 45)		
<b>22 45 36 00-0001 Emergency Fixture Water-Tempering Equipment</b> (22 45 36)		
<b>22 45 36 00-0002 Emergency Fixture Water-Tempering Equipment (Haws)</b> (22 45 36 00-0001)		
22 45 36 00-0003 EA 10 GPM, 1/2" Inlet, 1/2" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EV).....	757.75	88.11
22 45 36 00-0004 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EFE).....	1,090.86	88.11
22 45 36 00-0005 EA 31 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201E).....	1,582.05	88.11
22 45 36 00-0006 EA 78 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9202E).....	1,858.69	88.11
22 45 36 00-0007 EA 31 GPM, 1" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws 9201H).....	2,615.24	88.11
22 45 36 00-0008 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Secondary High Temperature Limit Valve, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.EWE).....	2,756.38	88.11
22 45 36 00-0009 EA 74 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.SHE).....	4,602.58	88.11
22 45 36 00-0010 EA 78 GPM, 2" Inlet, 2" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.HF).....	5,522.85	88.11
22 45 36 00-0011 EA 1/2" Inlet, 1/2" Outlet, Brass Scald Protection Bleed Valve (Haws SP157B).....	842.44	88.11
<b>22 45 39 Emergency Plumbing Fixture Accessories</b> (22 45)		
<b>22 45 39 00-0001 Emergency Plumbing Fixture Accessories</b> (22 45 39)		
<b>22 45 39 00-0002 Emergency Plumbing Fixture Accessories (Haws)</b> (22 45 39 00-0001)		
22 45 39 00-0003 EA Pedestal Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220).....	197.54	28.20
22 45 39 00-0004 EA Wall Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220W).....	270.93	28.20
22 45 39 00-0005 EA Pedestal Mounted, Stainless Steel Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220SS).....	282.22	28.20
22 45 39 00-0006 EA Axion® MSR Stainless Steel Showerhead For Emergency Drench Showers (Haws SP829SS).....	303.44	10.57
22 45 39 00-0007 EA Stainless Steel Dust Cover For Emergency Eye/Face Wash Bowls (Haws 9102).....	307.68	7.05
22 45 39 00-0008 EA 3-Sided ABS Plastic Safety Sign For Emergency Combination Shower And Eyewash Units (Haws 9020).....	338.72	14.10
22 45 39 00-0009 EA Emergency Body Spray Kit With 8' Hose And ABS Plastic Head For Emergency Plumbing Fixtures (Haws 8901RFK).....	634.91	105.74
22 45 39 00-0010 EA Class 1, Div. 1, Group B, C And D, Indicator Light For Emergency Plumbing Fixtures (Haws 8317IDLTXP).....	623.12	46.21
22 45 39 00-0011 EA Vapor Tight And Gasketed, Green Area Light For Emergency Plumbing Fixtures (Haws 8317LT).....	916.70	46.21
22 45 39 00-0012 EA Privacy Curtain For Horizontal Emergency Drench Shower Or Combination Emergency Drench Shower And Eyewash Units (Haws 9037).....	1,090.86	105.74
22 45 39 00-0013 EA Class 1, Div. 1, Group B, C And D, White Area Light For Emergency Plumbing Fixtures (Haws 8317LTXP).....	2,017.64	46.21
22 45 39 00-0014 EA 1/2" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001.5).....	2,284.09	154.02
22 45 39 00-0015 EA 1-1/4" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001).....	2,329.25	154.02





<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Fixtures</b>	<b>22 40</b>	
<b>Emergency Plumbing Fixtures</b>	<b>22 45</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 39 00-0016 EA 1-1/4" Supply, Class 1, Division 2, Groups B, C, And D Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXP) .....	4,260.14	154.02
22 45 39 00-0017 EA 1-1/4" Supply, 90 db, Class 1, Division 1, Groups C And D, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXPC1D1) .....	8,042.85	154.02
<b>22 45 39 00-0018 Emergency Plumbing Fixture Accessories (Speakman) (22 45 39 00-0001)</b>		
22 45 39 00-0019 EA Privacy Curtain For Emergency Showers .....	1,138.58	105.74
Note: Curtain includes stainless steel curtain rod and mounting accessories.		
<b>22 45 39 00-0020 Emergency Plumbing Fixture Accessories (WaterSaver) (22 45 39 00-0001)</b>		
22 45 39 00-0021 EA Hand And Foot Control For Emergency Eyewash Equipment (WaterSaver HFC) .....	191.84	22.97

**22 46 Security Plumbing Fixtures (22 40)**

**22 46 13 Security Water Closets and Urinals (22 46)**

**22 46 13 13 Security Water Closets (22 46 13)**

**22 46 13 13-0001 Security Water Closets (22 46 13 13)**

22 46 13 13-0002 EA Security Water Closet, Integral Seat, Back Supply And Flush Valve, Wall Hung, Wall Outlet, Cast Aluminum (Acorn 1675) .....	3,228.93	352.45
For Angled Toilet, Add	35.25	
For Offset Toilet, Add	287.65	
22 46 13 13-0003 EA Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Wall Outlet, Cast Aluminum (Acorn 1684) .....	3,879.08	352.45
For Angled Toilet, Add	35.25	
For Offset Toilet, Add	352.66	
22 46 13 13-0004 EA Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Floor Outlet, Cast Aluminum (Acorn 1695) .....	3,936.04	352.45
For Angled Toilet, Add	35.25	
For Offset Toilet, Add	358.36	
22 46 13 13-0005 EA Recessed Tissue Holder For Security Water Closet, Stainless Steel (Acorn 1840) .....	374.62	70.49

**22 46 13 16 Security Urinals (22 46 13)**

**22 46 13 16-0001 Security Urinals (22 46 13 16)**

22 46 13 16-0002 EA Security Urinal, Back Supply And Flush, Wall Hung, Stainless Steel (Acorn 1700) .....	3,783.06	317.21
22 46 13 16-0003 EA Security Urinal, Back Supply And Flush, Stall, Stainless Steel (Acorn 1720) .....	6,387.46	450.72

**22 46 13 19 Security Combination Toilet and Lavatory (22 46 13)**

**22 46 13 19-0001 Security Combination Toilet - Lavatory (22 46 13 19)**

22 46 13 19-0002 EA 15" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1415) .....	5,780.69	437.04
For Angled Toilet, Add	43.70	
For Offset Toilet, Add	534.37	
For 15" Mirror/Shelf Module, Add	987.04	
For AC Duplex Outlet Option, Add	117.41	
For Intercom Option, Add	162.41	
For 15" Wide Light/Ventilation Module, Add	897.22	
22 46 13 19-0003 EA 18" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1418) .....	5,958.51	458.19
For Angled Toilet, Add	45.82	
For Offset Toilet, Add	550.03	
For 18" Mirror/Shelf Module, Add	1,033.19	
For AC Duplex Outlet Option, Add	121.64	
For Intercom Option, Add	166.64	
For 18" Wide Light/Ventilation Module, Add	924.91	
22 46 13 19-0004 EA 20" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1420) .....	6,095.09	479.34
For Angled Toilet, Add	47.93	
For Offset Toilet, Add	561.58	
For 20" Mirror/Shelf Module, Add	1,089.34	
For AC Duplex Outlet Option, Add	125.87	
For Intercom Option, Add	170.87	
For 20" Wide Light/Ventilation Module, Add	962.60	
22 46 13 19-0005 EA 26" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1426) .....	6,518.44	500.48
For Angled Toilet, Add	50.05	
For Offset Toilet, Add	601.80	
For 26" Mirror/Shelf Module, Add	1,135.48	
For AC Duplex Outlet Option, Add	130.10	
For Intercom Option, Add	175.10	
For 26" Wide Light/Ventilation Module, Add	995.29	

<b>22</b>	<b>Plumbing</b>
<b>22 40</b>	<b>Plumbing Fixtures</b>
<b>22 46</b>	<b>Security Plumbing Fixtures</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 46 13 19-0006	EA		28" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Floor Mounted, Stainless Steel (Acorn 1428) .....	10,404.69	521.63
			<i>For Angled Toilet, Add</i> .....	52.16	
			<i>For Offset Toilet, Add</i> .....	988.31	
			<i>For 28" Mirror/Shelf Module, Add</i> .....	1,176.63	
			<i>For AC Duplex Outlet Option, Add</i> .....	134.33	
			<i>For Intercom Option, Add</i> .....	179.33	
			<i>For 28" Wide Light/Ventilation Module, Add</i> .....	1,027.98	
<b>22 46 16</b>			<b>Security Lavatories and Sinks (22 46)</b>		
<b>22 46 16 13</b>			<b>Security Lavatories (22 46 16)</b>		
<b>22 46 16 13-0001</b>			<b>Security Lavatories (22 46 16 13)</b>		
22 46 16 13-0002	EA		20" Security Lavatory, Wall Hung, Push Button Filler Valve, Rectangular Bowl, Stainless Steel (Acorn 1650) .....	2,324.61	246.72
			<i>For Shelf, Add</i> .....	109.02	
22 46 16 13-0003	EA		18" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Stainless Steel (Acorn 1655) .....	2,362.32	246.72
			<i>For Shelf, Add</i> .....	109.02	
22 46 16 13-0004	EA		13" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Corner Mount, Stainless Steel (Acorn 1660) .....	2,680.79	246.72
			<i>For Shelf, Add</i> .....	109.02	
22 46 16 13-0005	EA		18" Security Lavatory, Wall Hung, Push Button Filler Valve, Multi Sided Bowl, Stainless Steel (Acorn 1656) .....	2,362.32	246.72
			<i>For Shelf, Add</i> .....	109.02	
<b>22 46 16 16</b>			<b>Security Sinks (22 46 16)</b>		
<b>22 46 16 16-0001</b>			<b>Security Sinks (22 46 16 16)</b>		
22 46 16 16-0002	EA		22" x 16" x 10" Security Service Sink, With Soap Dish, Stainless Steel (Acorn 1642) .....	4,946.01	375.71
<b>22 46 16 16-0003</b>			<b>Security Mop Sink (22 46 16 16)</b>		
22 46 16 16-0004	EA		24" x 24" x 10" Stainless Steel Mop Sink With Strainer (ACORN 1630) .....	4,172.42	211.47
<b>22 46 19</b>			<b>Security Showers (22 46)</b>		
22 46 19 00-0001	EA		Security Shower Package For Built-in, Hot And Cold Faucets, Mixing Valve, Rectangular Soap Dish, Stainless Steel (Acorn 1741) .....	874.56	188.21
22 46 19 00-0002	EA		Security Shower Head With Mixing Valves And Piping Assembly In Wall (Acorn 1743) .....	622.69	98.69
22 46 19 00-0003	EA		30" Security Shower, Stainless Steel, Knock-Down (Acorn 1730-3M-KD) .....	12,753.83	563.93
22 46 19 00-0004	EA		32" Security Shower, Stainless Steel, Knock-Down (Acorn 1732-3M-KD) .....	13,209.52	563.93
22 46 19 00-0005	EA		36" Security Shower, Stainless Steel, Knock-Down (Acorn 1736-3M-KD) .....	13,678.51	563.93
22 46 19 00-0006	EA		36" ADA Security Shower, Stainless Steel, Front Access (Acorn 1736-ADA-3M-FA) .....	17,350.68	563.93
22 46 19 00-0007	EA		Wall Mounted Security Shower, Stainless Steel (Acorn 452) .....	1,308.09	148.03
			<i>For PWT Electronic FV, Add</i> .....	148.00	
22 46 19 00-0008	EA		Wall Mounted ADA Security Shower, Stainless Steel (Acorn 452 ADA) .....	1,572.01	148.03
			<i>For PWT Electronic FV, Add</i> .....	148.00	
<b>22 46 56</b>			<b>Security Drinking Fountains (22 46)</b>		
<b>22 46 56 00-0001</b>			<b>Security Drinking Fountain (22 46 56)</b>		
			Note: Includes air control valve, bubbler with mouthguard and mounting bracket.		
22 46 56 00-0002	EA		Wall Mounted Security Drinking Fountain, Stainless Steel (Acorn 1670-1-BP-3-FA) .....	2,628.56	281.96
22 46 56 00-0003	EA		Wall Mounted Security ADA Drinking Fountain, Stainless Steel (Acorn 1672-1-ADA-BP-3-FA) .....	2,646.75	281.96
<b>22 47</b>			<b>Drinking Fountains and Water Coolers (22 47)</b>		
<b>22 47 13</b>			<b>Drinking Fountains (22 47)</b>		
<b>22 47 13 00-0001</b>			<b>Indoor Drinking Fountains (22 47 13)</b>		
<b>22 47 13 00-0002</b>			<b>Face Mounted Indoor Drinking Fountain (22 47 13 00-0001)</b>		
22 47 13 00-0003	EA		Stainless Steel, Standard Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-S) .....	1,868.30	229.09
22 47 13 00-0004	EA		Stainless Steel, Standard Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-SBP) .....	2,668.77	246.72
22 47 13 00-0005	EA		Stainless Steel, Extended Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-E) .....	2,418.36	229.09
22 47 13 00-0006	EA		Stainless Steel, Extended Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-EBP) .....	2,866.87	246.72
22 47 13 00-0007	EA		Stainless Steel, Standard Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFSS) .....	1,297.47	229.09
22 47 13 00-0008	EA		Stainless Steel, Standard Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners With Back Panel (Halsey-Taylor HRFSSBP) .....	1,535.13	246.72
22 47 13 00-0009	EA		Stainless Steel, Extended Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFSE) .....	1,449.65	229.09
22 47 13 00-0010	EA		Stainless Steel, Extended Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFSEBP) .....	1,740.82	246.72
<b>22 47 13 00-0011</b>			<b>Wall Mounted Indoor Drinking Fountain (22 47 13 00-0001)</b>		



<b>Plumbing</b>	<b>22</b>
<b>Plumbing Fixtures</b>	<b>22 40</b>
<b>Drinking Fountains and Water Coolers</b>	<b>22 47</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 13 00-0012 EA Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor 5701).....	1,342.27	246.72
22 47 13 00-0013 EA Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8WF).....	1,979.68	246.72
22 47 13 00-0014 EA Bi-Level, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountains (Halsey-Taylor HTHB-HAC8BLWF).....	2,512.04	317.21
22 47 13 00-0015 EA Bi-Level, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountains (Elkay VRCGRNTL8WSK ) .....	3,626.43	317.21
22 47 13 00-0016 EA Bi-Level, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountains (Elkay EZSTLG8WSLK).....	3,139.17	317.21
22 47 13 00-0017 EA Bi-Level, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountains (Elkay LZSTL8WSSP).....	2,870.65	317.21
22 47 13 00-0018 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay LVRC8WSK).....	3,183.82	246.72
22 47 13 00-0019 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Non-Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay VRC8WSK).....	3,079.40	246.72
22 47 13 00-0020 EA Stainless Steel Wall-Mounted Indoor Hands-Free Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay LVRC8WSK).....	2,951.79	246.72
22 47 13 00-0021 EA Stainless Steel Wall-Mounted Indoor Hands-Free Non-Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay VRC8WSK).....	2,835.77	246.72
22 47 13 00-0022 EA Stainless Steel Wall-Mounted High-Efficiency Indoor Chilled Hands-Free Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay LVRCGRN8WSK).....	2,592.14	246.72
22 47 13 00-0023 EA Stainless Steel Wall-Mounted High-Efficiency Indoor Chilled Hands-Free Non-Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay VRCGRN8WSK) .....	2,487.73	246.72
22 47 13 00-0024 EA Stainless Steel Wall-Mounted High-Efficiency Indoor Chilled Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LZSG8WSSK) .....	2,371.71	246.72
22 47 13 00-0025 EA Stainless Steel Wall-Mounted Indoor Chilled Filtered Bottle Filling Station With Hands-Free Touchless Sensor Drinking Fountain (Elkay LZO8WSSK).....	2,371.71	246.72
22 47 13 00-0026 EA Stainless Steel Wall-Mounted Indoor Chilled Non-Filtered Bottle Filling Station With Hands-Free Fountain (Elkay EZO8WSSK).....	2,267.30	246.72
22 47 13 00-0027 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Bottle Filling Station With Drinking Fountain (Elkay EZSG8WSSK).....	2,267.30	246.72
22 47 13 00-0028 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LMABF8WSSK).....	2,220.90	246.72
22 47 13 00-0029 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Filtered Bottle Filling Station With Vandal-Resistant Drinking Fountain (Elkay LZS8WSVRSK).....	2,220.90	246.72
22 47 13 00-0030 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Non-Filtered Bottle Filling Station With Drinking Fountain (Elkay EMABF8WSSK).....	2,116.48	246.72
22 47 13 00-0031 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LZS8WSSK) .....	2,058.48	246.72
22 47 13 00-0032 EA Stainless Steel Wall-Mounted Indoor Chilled Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LZS8WSSP) .....	1,977.27	246.72
22 47 13 00-0033 EA Stainless Steel Wall-Mounted Indoor Hands-Free Filtered Bottle Filling Station With Drinking Fountain (Elkay LZSDWSSK).....	1,942.46	246.72
22 47 13 00-0034 EA Stainless Steel Wall-Mounted Indoor Hands-Free Non-Filtered Bottle Filling Station With Drinking Fountain (Elkay EMABFDWSLK).....	1,826.45	246.72
22 47 13 00-0035 EA Vinyl Clad Cabinet, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountain (Elkay EMABF8WSLK).....	2,058.48	246.72
22 47 13 00-0036 EA Vinyl Clad Cabinet, Non-Chilled, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountain (Elkay EMABFDWSLK).....	1,826.45	246.72
22 47 13 00-0037 EA Vinyl Clad Cabinet, Stainless Steel Wall-Mounted Indoor Bottle Filling Station With Drinking Fountain (Elkay LZS8WSLK).....	1,928.71	246.72
22 47 13 00-0038 EA Vinyl Clad Cabinet, Stainless Steel Wall-Mounted Indoor, Bottle Filling Station With Drinking Fountain (Elkay LZS8WSLP).....	1,930.86	246.72
22 47 13 00-0039 EA Surface Mounted, Stainless Steel, Filtered Non-Refrigerated, Bottle Filling Station Kit (Elkay LZWSSM) .....	1,581.04	176.23
22 47 13 00-0040 EA Wall Mounted, Non-Filtered Non-Refrigerated, Retrofit Bottle Filling Station Kit (Elkay EMABFWS-RF) .....	1,209.80	176.23
<b>22 47 13 00-0041 Semi-Recessed Indoor Drinking Fountain (22 47 13 00-0001)</b>		
22 47 13 00-0042 EA Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler (Halsey-Taylor 5801).....	1,762.66	264.34
22 47 13 00-0043 EA Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler And Cuspidor (Halsey-Taylor 5801C).....	3,599.31	264.34
<b>22 47 13 00-0044 Fully Recessed Indoor Drinking Fountain (22 47 13 00-0001)</b>		
22 47 13 00-0045 EA Stainless Steel Fully-Recessed, With Bubbler, Indoor Drinking Fountain (Halsey-Taylor 8880, Haws 2400).....	1,884.92	281.96
22 47 13 00-0046 EA Stainless Steel Fully-Recessed, With Bubbler And Cuspidor, Indoor Drinking Fountain (Halsey-Taylor 8800 With 10245, Haws 2403) .....	3,293.97	281.96
<b>22 47 13 00-0047 Countertop Indoor Drinking Fountain (22 47 13 00-0001)</b>		
22 47 13 00-0048 EA Stainless Steel Countertop Circular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 10000) .....	818.24	176.23
22 47 13 00-0049 EA Stainless Steel Countertop Rectangular Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6000).....	791.72	176.23
22 47 13 00-0050 EA Stainless Steel Countertop Oval Indoor Drinking Fountain Basin With Pushbutton Bubbler (Halsey-Taylor 6028).....	937.08	176.23
<b>22 47 13 00-0051 Bowl And Bracket Indoor Drinking Fountain (22 47 13 00-0001)</b>		
22 47 13 00-0052 EA Stainless Steel, Bowl And Bracket With Pushbutton Bubbler, Indoor Drinking Fountain (Halsey-Taylor 2501A) .....	707.90	176.23
22 47 13 00-0053 EA Stainless Steel, Bowl And Bracket, Self Closing Lever Handle Stop, Indoor Drinking Fountain (Halsey-Taylor 4540).....	831.12	176.23

**22 Plumbing****22 40 Plumbing Fixtures****22 47 Drinking Fountains and Water Coolers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 47 13 00-0054 Multi-Station Indoor Drinking Fountain</b> (22 47 13 00-0001)		
22 47 13 00-0055 EA Two Station, Stainless Steel, Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7020) .....	3,415.99	281.96
22 47 13 00-0056 EA Three Station, Stainless Steel, Indoor Drinking Fountains With Bubbler And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7030) .....	4,252.04	281.96
22 47 13 00-0057 EA Two Station, Marble, Face-Mounted Indoor Drinking Fountain With Bubblers (Halsey-Taylor 7120) .....	3,266.27	281.96
22 47 13 00-0058 EA Two Station, White Enameled Iron Indoor Drinking Fountains With Bubblers (Haws 1430) .....	2,781.49	281.96
22 47 13 00-0059 EA Three Station, White Enameled Iron Indoor Drinking Fountains With Bubblers (Haws 1435) .....	3,458.43	281.96
22 47 13 00-0060 EA Bi-Level, Stainless Steel, Indoor Drinking Fountain With Bubblers And Back Panel (Halsey-Taylor HRFSEBP, Haws 1119.14 With 6700.4) .....	3,083.18	359.67
22 47 13 00-0061 EA Two Station, Cast Aluminum Indoor Drinking Fountains With Bubblers (Haws 1441) .....	5,514.19	281.96
22 47 13 00-0062 EA Three Station, Cast Aluminum Indoor Drinking Fountains With Bubblers (Haws 1408) .....	5,418.81	281.96
<b>22 47 13 00-0063 Outdoor Drinking Fountains</b> (22 47 13)		
<b>22 47 13 00-0064 Face Mounted Outdoor Drinking Fountains</b> (22 47 13 00-0063)		
22 47 13 00-0065 EA Stainless Steel Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFE-FR) .....	1,667.23	281.96
22 47 13 00-0066 EA Stainless Steel Freeze Resistant Face Mounted, With Back Panel, Outdoor Drinking Fountain With Bubbler (Halsey-Taylor HRFEBP-FR) .....	1,811.31	281.96
22 47 13 00-0067 EA Stone Aggregate Weather Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592) .....	1,748.75	281.96
22 47 13 00-0068 EA Stone Aggregate Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4592-FR) .....	2,486.18	281.96
22 47 13 00-0069 EA Stainless Steel Face Mounted Outdoor Drinking Fountain With Bubbler (Oasis FLF140PM) .....	1,490.85	281.96
Note: For use with remote chillers		
<b>22 47 13 00-0070 Free Standing Outdoor Drinking Fountains</b> (22 47 13 00-0063)		
22 47 13 00-0071 EA Steel Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715) .....	3,002.55	264.34
22 47 13 00-0072 EA Steel Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4715-FR) .....	4,152.30	264.34
22 47 13 00-0073 EA Steel Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710) .....	2,998.73	264.34
22 47 13 00-0074 EA Steel Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4710-FR) .....	4,078.86	264.34
22 47 13 00-0075 EA Steel Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720) .....	4,395.16	281.96
22 47 13 00-0076 EA Steel Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4720-FR) .....	4,471.94	281.96
22 47 13 00-0077 EA Stone Aggregate Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4591) .....	1,758.97	264.34
22 47 13 00-0078 EA Stone Aggregate Barrier-Free Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590) .....	2,919.14	264.34
22 47 13 00-0079 EA Stone Aggregate Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4590-FR) .....	4,068.89	264.34
22 47 13 00-0080 EA Stone Aggregate Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595) .....	4,771.46	281.96
22 47 13 00-0081 EA Stone Aggregate Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubbler (Halsey-Taylor 4595-FR) .....	6,627.36	281.96
<b>22 47 16 Pressure Water Coolers</b> (22 47)		
<b>22 47 16 00-0001 Indoor Water Coolers</b> (22 47 16)		
<b>22 47 16 00-0002 Face Mounted Indoor Water Coolers</b> (22 47 16 00-0001)		
22 47 16 00-0003 EA Stainless Steel, Semi-Circular Water Cooler With Bubbler, Face-Mounted, Extended Length, 180 Degree Push Bar, 7.5 GPH (Halsey-Taylor OVL-II ER-Q) .....	3,431.19	281.96
22 47 16 00-0004 EA Stainless Steel, Semi-Circular Water Cooler, Electronic Sensor, Face-Mounted, Extended Length, With Bubbler, 7.5 GPH (Halsey-Taylor OVL-II EREE-Q) .....	3,652.04	281.96
<b>22 47 16 00-0005 Wall Mounted Indoor Water Coolers</b> (22 47 16 00-0001)		
22 47 16 00-0006 EA Stainless Steel Wall-Mounted Compact Water Cooler, 4 GPH, With Bubbler, (Halsey-Taylor SW4A-Q) .....	1,720.31	281.96
22 47 16 00-0007 EA Stainless Steel Wall-Mounted Compact Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SW8A-Q) .....	1,777.19	281.96
22 47 16 00-0008 EA Stainless Steel Wall-Mounted Compact Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SW14A-Q) .....	1,955.38	281.96
22 47 16 00-0009 EA Stainless Steel Wall-Mounted Vandal Resistant Compact Water Cooler With Bubbler, 8 GPH (Halsey-Taylor SW8A-VR-Q-SS) .....	2,023.63	281.96
22 47 16 00-0010 EA Stainless Steel Wall-Mounted Vandal Resistant Barrier Free Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8-CHILD ADA) .....	1,542.12	281.96
22 47 16 00-0011 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor WC8AFS-Q-SS) .....	1,760.12	281.96
22 47 16 00-0012 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor HAC8FS-Q Child SS) .....	1,419.84	281.96
22 47 16 00-0013 EA Stainless Steel Wall-Mounted Water Cooler, 8 GPH, With Bubbler, (Halsey-Taylor HAC8VR-BL) .....	2,052.37	281.96
22 47 16 00-0014 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HAC8FSBL-Q-SS) .....	2,351.07	422.94
<b>22 47 16 00-0015 Simulated Recessed Indoor Water Coolers</b> (22 47 16 00-0001)		
22 47 16 00-0016 EA Stainless Steel Simulated Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RWM8A-Q) .....	2,019.67	281.96
<b>22 47 16 00-0017 Fully Recessed Indoor Water Coolers</b> (22 47 16 00-0001)		
22 47 16 00-0018 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RC8A-Q) .....	3,787.89	317.21
22 47 16 00-0019 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser, 8 GPH (Halsey-Taylor RC8AQ + 14762) .....	4,585.65	317.21



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Fixtures</b>	<b>22 40</b>	
<b>Drinking Fountains and Water Coolers</b>	<b>22 47</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 16 00-0020 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser And Glass Filler, 8 GPH (Halsey-Taylor RC8A-Q-14700).....	5,335.81	317.21
<b>22 47 16 00-0021 Free Standing Indoor Water Coolers (22 47 16 00-0001)</b>		
22 47 16 00-0022 EA Stainless Steel, Free-Standing Indoor Water Cooler, 4 GPH, With Bubbler (Halsey-Taylor SCWT4A-Q).....	1,643.18	246.72
22 47 16 00-0023 EA Stainless Steel, Free-Standing Indoor Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SCWT8A-Q).....	1,754.08	246.72
22 47 16 00-0024 EA Stainless Steel, Free-Standing Indoor Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SCWT14A-Q).....	1,971.14	246.72
22 47 16 00-0025 EA Stainless Steel, Free-Standing Vandal Resistant Water Cooler With Bubbler, 14 GPH (Halsey-Taylor SCWT14A-VR-Q).....	2,176.82	246.72
<b>22 47 16 00-0026 Bottled Water Coolers (22 47 16 00-0001)</b>		
22 47 16 00-0027 EA Free-Standing Bottled Water Cooler With Chilled Or Room Temperature Water .....	601.68	140.98
22 47 16 00-0028 EA Free-Standing Bottled Water Cooler With Chilled Or Hot Water.....	703.54	140.98
<b>22 47 16 00-0029 Multi-Station Indoor Water Coolers (22 47 16 00-0001)</b>		
22 47 16 00-0030 EA Stainless Steel, Wall Mounted, Two Station, Semi-Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II SER-Q) .....	4,560.78	422.94
22 47 16 00-0031 EA Stainless Steel, Wall Mounted, Two Station, Electronic Sensor Semi Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II-SEREE-Q).....	5,199.37	422.94
22 47 16 00-0032 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BL-CHILD ADA-SS) .....	2,528.32	422.94
<b>22 47 16 00-0033 Outdoor Water Coolers (22 47 16)</b>		
<b>22 47 16 00-0034 Wall Mounted Outdoor Water Coolers (22 47 16 00-0033)</b>		
22 47 16 00-0035 EA Stainless Steel, Wall Mounted, Barrier Free, Vandal Resistant, Frost Resistant Outdoor Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8FR-CHILD ADA-SS).....	1,715.88	176.23
22 47 16 00-0036 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Outdoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BLFR-CHILD ADA-SS) .....	2,877.54	176.23
<b>22 47 16 00-0037 Free Standing Outdoor Water Coolers (22 47 16 00-0033)</b>		
22 47 16 00-0038 EA Stainless Steel Free-Standing Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-Q).....	2,815.83	264.34
22 47 16 00-0039 EA Stainless Steel Free-Standing Frost Resistant Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-FR-Q) .....	3,346.63	264.34
<b>22 47 16 00-0040 Removal And Reinstallation Of Fixtures And Trim (22 47 16)</b>		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 47 16 00-0041 EA Removal And Reinstallation Of Wall Hung Water Cooler .....	683.71	
22 47 16 00-0042 EA Removal And Reinstallation Of Floor Mount Water Cooler.....	153.13	
<b>22 47 19 Water-Station Water Coolers (22 47)</b>		
<b>22 47 19 00-0001 Bottle Filler (22 47 19)</b>		
22 47 19 00-0002 EA Outdoor Tubular Bottle Filling Station, Surface Mount (Elkay LK4410BF).....	4,112.81	281.96
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0003 EA Outdoor Tubular Bottle Filling Station, Surface Mount, Freeze Resistant (Elkay LK4410BFFRK).....	5,041.26	281.96
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0004 EA Tri-level Outdoor Tubular Bottle Filling Station With Single Bottle Filler And Two Drinking Fountain Basins, Surface Mount (Elkay LK4430BF1) .....	6,446.50	317.21
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0005 EA Tri-level Outdoor Tubular Bottle Filling Station With Two Bottle Fillers And Single Drinking Fountain Basin, Surface Mount (Elkay LK4430BF2) .....	6,951.45	317.21
For Stainless Steel Carrier, Add		205.00
22 47 19 00-0006 EA Tri-level Outdoor Tubular Bottle Filling Station With Three Bottle Fillers, Surface Mount (Elkay LK4430BF3) .....	7,456.40	317.21
For Stainless Steel Carrier, Add		205.00
<b>22 47 23 Remote Water Coolers (22 47)</b>		
<b>22 47 23 00-0001 Remote Chillers (22 47 23)</b>		
22 47 23 00-0002 EA 1.5 GPH Remote Chiller (Halsey-Taylor SJ1-Q).....	984.62	95.16
22 47 23 00-0003 EA 5 GPH Remote Chiller (Halsey-Taylor SJ5-Q).....	1,474.00	105.74
22 47 23 00-0004 EA 8 GPH Remote Chiller (Halsey-Taylor SJ8-Q).....	1,285.56	123.35
22 47 23 00-0005 EA 10 GPH Remote Chiller (Halsey-Taylor SJ10-Q).....	1,644.03	140.98
22 47 23 00-0006 EA 19 GPH Remote Chiller (Halsey-Taylor SJ19-Q).....	2,569.84	211.47
22 47 23 00-0007 EA 30 GPH Remote Chiller (Halsey-Taylor SJ30-Q).....	2,786.12	229.09
<b>22 47 26 Fixture Carriers (22 47)</b>		
<b>22 47 26 00-0001 Water Cooler Carriers (22 47 26)</b>		
<b>22 47 26 00-0002 Floor Mounted, Water Cooler Carriers (22 47 26 00-0001)</b>		
Note: Includes adjustable supporting rods, structural uprights and welded feet.		

**22 Plumbing****22 40 Plumbing Fixtures****22 47 Drinking Fountains and Water Coolers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 26 00-0003 EA Floor Mounted Hanger Plate Type, Single Water Cooler Carrier ..... <i>For Up To 4" Extension Sleeves And Hardware, Add For Bi-Level Carrier, Add</i>	619.23 24.54 292.18	53.58
22 47 26 00-0004 EA Floor Mounted Bearing Plate Type, Single Water Cooler Carrier ..... <i>For Up To 4" Extension Sleeves And Hardware, Add For Bi-Level Carrier, Add</i>	590.15 24.54 292.18	53.58

**22 50 Pool and Fountain Plumbing Systems (22)****22 51 Swimming Pool Plumbing Systems (22 50)****22 51 13 Swimming Pool Piping (22 51)**

22 51 13 00-0001 Swimming Pool Gutters (22 51 13)		
22 51 13 00-0002 LF Swimming Pool Gutters, Stainless.....	269.27	31.72

**22 51 19 Swimming Pool Water Treatment Equipment (22 51)**

22 51 19 00-0001 Swimming Pool Heaters (22 51 19) Note: Excludes wiring, external piping, base or pad. Commercial pools.		
22 51 19 00-0002 Electric Pool Heaters (22 51 19 00-0001)		
22 51 19 00-0003 EA 12 KW Heater (1 Degree/Hour), For 4,800 Gallon Pool.....	4,421.99	281.96
22 51 19 00-0004 EA 18 KW Heater (1 Degree/Hour), For 7,200 Gallon Pool.....	4,931.17	303.11
22 51 19 00-0005 EA 24 KW Heater (1 Degree/Hour), For 9,600 Gallon Pool.....	5,492.56	352.45
22 51 19 00-0006 EA 30 KW Heater (1 Degree/Hour), For 12,000 Gallon Pool.....	5,855.87	422.94
22 51 19 00-0007 EA 36 KW Heater (1 Degree/Hour), For 14,400 Gallon Pool.....	6,548.12	592.12
22 51 19 00-0008 EA 60 KW Heater (1 Degree/Hour), For 24,000 Gallon Pool.....	7,644.96	845.88

22 51 19 00-0009 Gas Fired Pool Heaters (22 51 19 00-0001)		
22 51 19 00-0010 EA 120 MBH Output Gas Fired Pool Heater.....	6,681.69	1,261.84
22 51 19 00-0011 EA 180 MBH Output Gas Fired Pool Heater.....	7,593.29	1,442.10
22 51 19 00-0012 EA 240 MBH Output Gas Fired Pool Heater.....	8,577.01	1,622.37
22 51 19 00-0013 EA 300 MBH Output Gas Fired Pool Heater.....	9,919.53	1,982.89
22 51 19 00-0014 EA 360 MBH Output Gas Fired Pool Heater.....	10,231.46	2,090.40
22 51 19 00-0015 EA 400 MBH Output Gas Fired Pool Heater.....	11,785.80	2,469.53
22 51 19 00-0016 EA 500 MBH Output Gas Fired Pool Heater.....	18,196.80	2,849.46
22 51 19 00-0017 EA 600 MBH Output Gas Fired Pool Heater.....	21,044.14	3,134.40
22 51 19 00-0018 EA 750 MBH Output Gas Fired Pool Heater.....	23,692.57	3,419.35
22 51 19 00-0019 EA 1,000 MBH Output Gas Fired Pool Heater.....	30,263.27	4,036.73

22 51 19 00-0020 Surge Tanks (22 51 19) Note: Includes 100 GPM vertical pump with 2 HP motor and electronic float switch. Prices are for 1' To 5' sump depth for pump.		
22 51 19 00-0021 EA 1,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	22,002.16	1,030.66
22 51 19 00-0022 EA 1,500 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	24,640.47	1,030.66
22 51 19 00-0023 EA 2,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	29,575.35	1,268.87
22 51 19 00-0024 EA 5,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch.....	39,227.58	2,047.83

22 51 19 00-0025 Diatomite Type Filter System (22 51 19)		
22 51 19 00-0026 EA 35,000 Gallon Filter System, Diatomite.....	17,473.07	3,729.72
22 51 19 00-0027 EA 45,000 Gallon Filter System, Diatomite.....	20,857.87	4,475.66

22 51 19 00-0028 Silver Recovery System, X-Ray Film Processing (22 51 19)		
22 51 19 00-0029 EA 20 Gallon/Day Capacity, Silver Recovery System.....	2,188.90	478.54
22 51 19 00-0030 EA 40 Gallon/Day Capacity, Silver Recovery System.....	3,179.83	638.10

22 51 19 00-0031 Inline Water Filter (22 51 19) Note: 3/8" NPT threaded inlet and outlet, 125 PSI, includes one filter cartridge.		
22 51 19 00-0032 EA 2 GPM Water Filter, 100 Degree Temperature, 8" x 5" Diameter, Plastic Body.....	310.90	140.98
22 51 19 00-0033 EA 6 GPM Water Filter, 250 Degree Temperature, 12" x 5" Diameter, Stainless Steel Body.....	524.00	211.47

22 51 19 00-0034 Ultra-Violet Pool Treatment Lights (22 51 19)		
22 51 19 00-0035 Stainless Steel Ultra-Violet Pool Treatment Lights (22 51 19 00-0034) Note: Delta ELP Amalgam Series		
22 51 19 00-0036 EA 3" Flanged, 79 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	15,736.85	439.62
22 51 19 00-0037 EA 3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	16,631.03	439.62
22 51 19 00-0038 EA 3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	17,397.48	439.62
22 51 19 00-0039 EA 4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	17,950.70	465.43
22 51 19 00-0040 EA 4" Flanged, 295 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	18,330.53	465.43
22 51 19 00-0041 EA 4" Flanged, 329 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	21,779.46	465.43
22 51 19 00-0042 EA 6" Flanged, 396 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	25,789.36	835.96
22 51 19 00-0043 EA 6" Flanged, 440 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	38,130.18	835.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 51 19 00-0044 EA 6" Flanged, 650 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	41,837.74	835.96
22 51 19 00-0045 EA 8" Flanged, 695 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	44,895.53	1,002.89
22 51 19 00-0046 EA 8" Flanged, 920 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	48,198.03	1,002.89
22 51 19 00-0047 EA 8" Flanged, 1140 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	50,503.58	1,002.89
22 51 19 00-0048 EA 8" Flanged, 1260 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	52,996.05	1,002.89
22 51 19 00-0049 EA 10" Flanged, 1510 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	56,941.02	1,139.95
22 51 19 00-0050 EA 10" Flanged, 1760 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	61,302.85	1,139.95
22 51 19 00-0051 EA 10" Flanged, 2010 GPM, 8 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	65,664.66	1,139.95
22 51 19 00-0052 EA 10" Flanged, 2520 GPM, 10 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing.....	70,961.15	1,139.95
<b>22 51 19 00-0053 HDPE Ultra-Violet Pool Treatment Lights (22 51 19 00-0034)</b>		
Note: Delta EL Series		
22 51 19 00-0054 EA 3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing .....	7,901.20	439.62
22 51 19 00-0055 EA 3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing .....	8,773.53	439.62
22 51 19 00-0056 EA 4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing .....	9,684.81	465.43
<b>22 51 19 00-0057 In-Line, Stainless Steel Ultra-Violet Pool Treatment Lights (22 51 19 00-0034)</b>		
Note: Delta EM Series		
22 51 19 00-0058 EA 3" Flanged, 100 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing .....	30,333.37	439.62
22 51 19 00-0059 EA 3" Flanged, 170 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing .....	30,644.90	439.62
22 51 19 00-0060 EA 6" Flanged, 300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing .....	32,815.02	835.96
22 51 19 00-0061 EA 6" Flanged, 600 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing .....	41,501.24	835.96
22 51 19 00-0062 EA 8" Flanged, 1300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing .....	57,856.35	1,002.89
22 51 19 00-0063 EA 10" Flanged, 2000 GPM, 2 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing .....	65,290.80	1,139.95
22 51 19 00-0064 EA 12" Flanged, 3000 GPM, 3 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing .....	77,015.78	1,475.15
22 51 19 00-0065 EA 12" Flanged, 4000 GPM, 4 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing .....	86,362.51	1,475.15

## 22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities <sup>(22)</sup>

### 22 63 Gas Systems for Laboratory and Healthcare Facilities <sup>(22 60)</sup>

#### 22 63 13 Gas Piping for Laboratory and Healthcare Facilities <sup>(22 63)</sup>

##### 22 63 13 53 Laboratory Gas Piping <sup>(22 63 13)</sup>

See CSI section 23 21 13 23-0001 for black steel pipe, 23 21 13 23-2234 for PVC piping.

### 22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities <sup>(22 60)</sup>

#### 22 66 53 Laboratory Chemical-Waste and Vent Piping <sup>(22 66)</sup>

22 66 53 00-0001 Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <sup>(22 66 53)</sup>		
22 66 53 00-0002 Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fuseal Fittings <sup>(22 66 53 00-0001)</sup>		
22 66 53 00-0003 Schedule 40 Polypropylene Acid Resistant DWV Pipe <sup>(22 66 53 00-0002)</sup>		
22 66 53 00-0004 LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe .....	18.19	8.03
For Schedule 80, Add		
For Fire Retardant Thermoplastic Pipe (Proxylene), Add		
For Work In Restricted Working Space, Add		
22 66 53 00-0005 LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	21.87	9.02
For Schedule 80, Add		
For Fire Retardant Thermoplastic Pipe (Proxylene), Add		
For Work In Restricted Working Space, Add		
22 66 53 00-0006 LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	34.59	13.11
For Schedule 80, Add		
For Fire Retardant Thermoplastic Pipe (Proxylene), Add		
For Work In Restricted Working Space, Add		
22 66 53 00-0007 LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	46.74	17.05
For Schedule 80, Add		
For Fire Retardant Thermoplastic Pipe (Proxylene), Add		
For Work In Restricted Working Space, Add		
22 66 53 00-0008 LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	75.64	25.10
For Schedule 80, Add		
For Fire Retardant Thermoplastic Pipe (Proxylene), Add		
For Work In Restricted Working Space, Add		
22 66 53 00-0009 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends <sup>(22 66 53 00-0002)</sup>		
22 66 53 00-0010 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	70.04	30.31
For Work In Restricted Working Space, Add		
22 66 53 00-0011 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	90.49	40.04
For Work In Restricted Working Space, Add		
22 66 53 00-0012 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	120.55	45.81
For Work In Restricted Working Space, Add		
22 66 53 00-0013 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	173.38	60.63
For Work In Restricted Working Space, Add		

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0014 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend..... <i>For Work In Restricted Working Space, Add</i>	336.84 40.28	89.53
<b>22 66 53 00-0015 Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends</b> (22 66 53 00-0002)		
22 66 53 00-0016 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	69.62 13.64	30.31
22 66 53 00-0017 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	89.38 18.00	40.04
22 66 53 00-0018 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	122.67 20.63	45.81
22 66 53 00-0019 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	152.07 27.29	60.63
22 66 53 00-0020 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	303.82 40.28	89.53
<b>22 66 53 00-0021 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees</b> (22 66 53 00-0002)		
22 66 53 00-0022 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	127.73 29.17	64.85
22 66 53 00-0023 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	159.13 36.78	81.77
22 66 53 00-0024 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	207.37 40.28	89.53
22 66 53 00-0025 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	285.70 52.87	117.58
22 66 53 00-0026 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	499.68 84.59	188.07
<b>22 66 53 00-0027 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees</b> (22 66 53 00-0002)		
22 66 53 00-0028 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	159.08 36.78	81.77
22 66 53 00-0029 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	202.26 40.28	89.53
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	197.73 40.28	89.53
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	274.07 52.87	117.58
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	278.46 52.87	117.58
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	467.28 84.59	188.07
<b>22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug</b> (22 66 53 00-0002)		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	142.62 29.17	64.85
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	162.73 36.78	81.77
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	218.39 40.28	89.53
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	290.78 52.87	117.58
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	436.85 84.59	188.07
<b>22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes</b> (22 66 53 00-0002)		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	136.09 29.17	64.85
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	166.87 36.78	81.77
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	211.98 40.28	89.53
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	289.53 52.87	117.58
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	569.58 84.59	188.07
<b>22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes</b> (22 66 53 00-0002)		
22 66 53 00-0047 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	177.11 36.78	81.77
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	206.73 40.28	89.53
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	206.73 40.28	89.53





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	284.99 52.87	117.58
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	284.99 52.87	117.58
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	509.37 84.59	188.07
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	512.89 84.59	188.07
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	468.76 84.59	188.07
<b>22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses (22 66 53 00-0002)</b>		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross ..... <i>For Work In Restricted Working Space, Add</i>	169.34 36.46	81.06
22 66 53 00-0057 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	210.52 45.97	102.21
22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	282.43 50.35	111.94
22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	391.89 66.08	146.90
22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	693.74 105.74	235.01
<b>22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends (22 66 53 00-0002)</b>		
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend ..... <i>For Work In Restricted Working Space, Add</i>	125.00 29.17	64.85
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend ..... <i>For Work In Restricted Working Space, Add</i>	163.17 36.78	81.77
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend ..... <i>For Work In Restricted Working Space, Add</i>	186.19 40.28	89.53
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend ..... <i>For Work In Restricted Working Space, Add</i>	256.98 52.87	117.58
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend ..... <i>For Work In Restricted Working Space, Add</i>	151.09 36.78	81.77
22 66 53 00-0067 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend ..... <i>For Work In Restricted Working Space, Add</i>	181.33 40.28	89.53
22 66 53 00-0068 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend ..... <i>For Work In Restricted Working Space, Add</i>	183.28 40.28	89.53
22 66 53 00-0069 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend ..... <i>For Work In Restricted Working Space, Add</i>	249.76 52.87	117.58
22 66 53 00-0070 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend ..... <i>For Work In Restricted Working Space, Add</i>	250.99 52.87	117.58
<b>22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)</b>		
22 66 53 00-0072 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap..... <i>For Work In Restricted Working Space, Add</i>	147.63 33.84	75.29
22 66 53 00-0073 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap..... <i>For Work In Restricted Working Space, Add</i>	196.33 44.52	98.97
22 66 53 00-0074 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap..... <i>For Work In Restricted Working Space, Add</i>	295.69 60.42	134.35
22 66 53 00-0075 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap..... <i>For Work In Restricted Working Space, Add</i>	414.77 76.90	171.01
<b>22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)</b>		
22 66 53 00-0077 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	68.88 13.64	30.31
22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	84.38 18.00	40.04
22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	98.95 20.63	45.81
22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	134.44 27.29	60.63
22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter..... <i>For Work In Restricted Working Space, Add</i>	199.40 40.28	89.53
<b>22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)</b>		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	65.94 13.64	30.31
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	86.59 18.00	40.04
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	103.02 20.63	45.81
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter..... <i>For Work In Restricted Working Space, Add</i>	138.44 27.29	60.63

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)</b>		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	62.30	30.31
<i>For Work In Restricted Working Space, Add</i>	13.64	
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	80.04	40.04
<i>For Work In Restricted Working Space, Add</i>	18.00	
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	93.11	45.81
<i>For Work In Restricted Working Space, Add</i>	20.63	
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	123.13	60.63
<i>For Work In Restricted Working Space, Add</i>	27.29	
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling.....	181.03	89.53
<i>For Work In Restricted Working Space, Add</i>	40.28	
<b>22 66 53 00-0093 Glass Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)</b>		
<b>22 66 53 00-0094 Glass Acid Resistant DWV Pipe (22 66 53 00-0093)</b>		
22 66 53 00-0095 LF 1-1/2" Glass Acid Resistant DWV Pipe.....	38.30	7.75
<i>For Work In Restricted Working Space, Add</i>	4.65	
22 66 53 00-0096 LF 2" Glass Acid Resistant DWV Pipe.....	47.96	8.46
<i>For Work In Restricted Working Space, Add</i>	5.07	
22 66 53 00-0097 LF 3" Glass Acid Resistant DWV Pipe.....	66.39	11.85
<i>For Work In Restricted Working Space, Add</i>	7.13	
22 66 53 00-0098 LF 4" Glass Acid Resistant DWV Pipe.....	108.29	15.37
<i>For Work In Restricted Working Space, Add</i>	9.23	
22 66 53 00-0099 LF 6" Glass Acid Resistant DWV Pipe.....	180.96	21.01
<i>For Work In Restricted Working Space, Add</i>	12.59	
<b>22 66 53 00-0100 Glass Acid Resistant DWV 90 Or 60 Degree Sweeps (22 66 53 00-0093)</b>		
22 66 53 00-0101 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	117.44	34.54
<i>For Work In Restricted Working Space, Add</i>	20.68	
22 66 53 00-0102 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	134.39	36.65
<i>For Work In Restricted Working Space, Add</i>	21.95	
22 66 53 00-0103 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	184.02	41.59
<i>For Work In Restricted Working Space, Add</i>	24.95	
22 66 53 00-0104 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	270.97	54.98
<i>For Work In Restricted Working Space, Add</i>	32.99	
22 66 53 00-0105 EA 6" Glass Acid Resistant DWV 90 Or 60 Degree Sweep.....	642.95	76.13
<i>For Work In Restricted Working Space, Add</i>	45.68	
<b>22 66 53 00-0106 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweeps (22 66 53 00-0093)</b>		
22 66 53 00-0107 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	117.73	34.68
<i>For Work In Restricted Working Space, Add</i>	20.77	
22 66 53 00-0108 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	133.81	36.23
<i>For Work In Restricted Working Space, Add</i>	21.78	
22 66 53 00-0109 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	183.73	41.45
<i>For Work In Restricted Working Space, Add</i>	24.87	
22 66 53 00-0110 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	270.97	54.98
<i>For Work In Restricted Working Space, Add</i>	32.99	
22 66 53 00-0111 EA 6" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Sweep.....	642.92	76.13
<i>For Work In Restricted Working Space, Add</i>	45.67	
<b>22 66 53 00-0112 Glass Acid Resistant DWV 90 Or 60 Degree Bends (22 66 53 00-0093)</b>		
22 66 53 00-0113 EA 1-1/2" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....	119.05	34.68
<i>For Work In Restricted Working Space, Add</i>	20.77	
22 66 53 00-0114 EA 2" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....	135.40	36.23
<i>For Work In Restricted Working Space, Add</i>	21.78	
22 66 53 00-0115 EA 3" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....	186.51	41.45
<i>For Work In Restricted Working Space, Add</i>	24.87	
22 66 53 00-0116 EA 4" Glass Acid Resistant DWV 90 Or 60 Degree Bend.....	270.97	54.98
<i>For Work In Restricted Working Space, Add</i>	32.99	
<b>22 66 53 00-0117 Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bends (22 66 53 00-0093)</b>		
22 66 53 00-0118 EA 1-1/2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend.....	119.05	34.68
<i>For Work In Restricted Working Space, Add</i>	20.77	
22 66 53 00-0119 EA 2" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend.....	135.40	36.23
<i>For Work In Restricted Working Space, Add</i>	21.78	
22 66 53 00-0120 EA 3" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend.....	186.51	41.45
<i>For Work In Restricted Working Space, Add</i>	24.87	
22 66 53 00-0121 EA 4" Glass Acid Resistant DWV 45 Or 22-1/2 Degree Bend.....	270.97	54.98
<i>For Work In Restricted Working Space, Add</i>	32.99	
<b>22 66 53 00-0122 Glass Acid Resistant DWV 90 Degree Bends With Long Leg (22 66 53 00-0093)</b>		
22 66 53 00-0123 EA 1-1/2" Glass Acid Resistant DWV 90 Degree Bend With Long Leg.....	137.96	34.68
<i>For Work In Restricted Working Space, Add</i>	20.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0124 EA 2" Glass Acid Resistant DWV 90 Degree Bends With Long Leg ..... <i>For Work In Restricted Working Space, Add</i>	162.56 21.78	36.23
<b>22 66 53 00-0125 Glass Acid Resistant DWV Double Quarter Bends (22 66 53 00-0093)</b>		
22 66 53 00-0126 EA 1-1/2" Glass Acid Resistant DWV Double Quarter Bend ..... <i>For Work In Restricted Working Space, Add</i>	190.51 31.16	51.88
22 66 53 00-0127 EA 2" x 1-1/2" Glass Acid Resistant DWV Double Quarter Bend ..... <i>For Work In Restricted Working Space, Add</i>	238.61 32.23	53.72
22 66 53 00-0128 EA 2" Glass Acid Resistant DWV Double Quarter Bend ..... <i>For Work In Restricted Working Space, Add</i>	222.60 32.67	54.42
22 66 53 00-0129 EA 3" Glass Acid Resistant DWV Double Quarter Bend ..... <i>For Work In Restricted Working Space, Add</i>	300.61 37.31	62.17
22 66 53 00-0130 EA 4" Glass Acid Resistant DWV Double Quarter Bend ..... <i>For Work In Restricted Working Space, Add</i>	494.47 49.48	82.48
22 66 53 00-0131 EA 6" Glass Acid Resistant DWV Double Quarter Bend ..... <i>For Work In Restricted Working Space, Add</i>	757.39 68.53	114.19
<b>22 66 53 00-0132 Glass Acid Resistant DWV Sanitary Tees (22 66 53 00-0093)</b>		
22 66 53 00-0133 EA 1-1/2" Glass Acid Resistant DWV Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	182.51 31.30	52.16
22 66 53 00-0134 EA 2" Glass Acid Resistant DWV Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	186.73 32.57	54.28
22 66 53 00-0135 EA 3" Glass Acid Resistant DWV Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	240.68 37.22	62.03
22 66 53 00-0136 EA 4" Glass Acid Resistant DWV Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	374.17 49.48	82.48
22 66 53 00-0137 EA 6" Glass Acid Resistant DWV Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	788.90 68.52	114.19
<b>22 66 53 00-0138 Glass Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0093)</b>		
22 66 53 00-0139 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	185.32 32.14	53.58
22 66 53 00-0140 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	220.11 35.11	58.50
22 66 53 00-0141 EA 3" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	233.65 35.95	59.91
22 66 53 00-0142 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	301.17 43.56	72.60
22 66 53 00-0143 EA 4" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	315.43 43.99	73.31
22 66 53 00-0144 EA 4" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	331.20 45.26	75.43
22 66 53 00-0145 EA 6" x 2" Glass Acid Resistant DWV Reducing Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	582.33 56.68	94.45
22 66 53 00-0146 EA 6" x 3" Glass Acid Resistant DWV Reducing Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	627.63 57.94	96.58
22 66 53 00-0147 EA 6" x 4" Glass Acid Resistant DWV Reducing Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	643.98 62.17	103.62
<b>22 66 53 00-0148 Glass Acid Resistant DWV Double Sanitary Tees (22 66 53 00-0093)</b>		
22 66 53 00-0149 EA 1-1/2" Glass Acid Resistant DWV Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	258.10 41.45	69.08
22 66 53 00-0150 EA 2" Glass Acid Resistant DWV Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	265.11 43.56	72.60
22 66 53 00-0151 EA 3" Glass Acid Resistant DWV Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	342.59 49.91	83.18
22 66 53 00-0152 EA 4" Glass Acid Resistant DWV Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	557.66 65.97	109.97
22 66 53 00-0153 EA 6" Glass Acid Resistant DWV Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	993.32 91.37	152.26
<b>22 66 53 00-0154 Glass Acid Resistant DWV Reducing Double Sanitary Tees (22 66 53 00-0093)</b>		
22 66 53 00-0155 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	262.29 42.71	71.19
22 66 53 00-0156 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	302.66 45.68	76.13
22 66 53 00-0157 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	319.66 46.53	77.54
22 66 53 00-0158 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	464.34 53.72	89.53
22 66 53 00-0159 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	460.08 54.98	91.64
22 66 53 00-0160 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	493.71 57.95	96.58
22 66 53 00-0161 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	653.93 67.66	112.79
22 66 53 00-0162 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Sanitary Tee ..... <i>For Work In Restricted Working Space, Add</i>	710.89 70.62	117.72

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0163 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	805.06 78.65	131.12
<b>22 66 53 00-0164 Glass Acid Resistant DWV Tees</b> (22 66 53 00-0093)		
22 66 53 00-0165 EA 1-1/2" Glass Acid Resistant DWV Tee <i>For Work In Restricted Working Space, Add</i>	201.07 31.30	52.16
22 66 53 00-0166 EA 2" Glass Acid Resistant DWV Tee <i>For Work In Restricted Working Space, Add</i>	205.28 32.57	54.28
22 66 53 00-0167 EA 3" Glass Acid Resistant DWV Tee <i>For Work In Restricted Working Space, Add</i>	263.72 37.22	62.03
22 66 53 00-0168 EA 4" Glass Acid Resistant DWV Tee <i>For Work In Restricted Working Space, Add</i>	410.32 49.48	82.48
22 66 53 00-0169 EA 6" Glass Acid Resistant DWV Tee <i>For Work In Restricted Working Space, Add</i>	832.26 68.53	114.19
<b>22 66 53 00-0170 Glass Acid Resistant DWV Reducing Tees</b> (22 66 53 00-0093)		
22 66 53 00-0171 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	203.85 32.14	53.58
22 66 53 00-0172 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	239.46 35.11	58.50
22 66 53 00-0173 EA 3" x 2" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	245.06 35.95	59.91
22 66 53 00-0174 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	305.43 43.57	72.60
22 66 53 00-0175 EA 4" x 2" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	313.44 43.98	73.31
22 66 53 00-0176 EA 4" x 3" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	374.69 45.26	75.43
22 66 53 00-0177 EA 6" x 3" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	707.12 57.94	96.58
22 66 53 00-0178 EA 6" x 4" Glass Acid Resistant DWV Reducing Tee <i>For Work In Restricted Working Space, Add</i>	736.97 62.16	103.62
<b>22 66 53 00-0179 Glass Acid Resistant DWV Test Tees With Cleanout</b> (22 66 53 00-0093)		
22 66 53 00-0180 EA 1-1/2" Glass Acid Resistant DWV Test Tee With Cleanout <i>For Work In Restricted Working Space, Add</i>	232.87 31.30	52.16
22 66 53 00-0181 EA 2" Glass Acid Resistant DWV Test Tee With Cleanout <i>For Work In Restricted Working Space, Add</i>	259.21 32.57	54.28
22 66 53 00-0182 EA 3" Glass Acid Resistant DWV Test Tee With Cleanout <i>For Work In Restricted Working Space, Add</i>	331.70 37.22	62.03
22 66 53 00-0183 EA 4" Glass Acid Resistant DWV Test Tee With Cleanout <i>For Work In Restricted Working Space, Add</i>	565.23 49.48	82.48
22 66 53 00-0184 EA 6" Glass Acid Resistant DWV Test Tee With Cleanout <i>For Work In Restricted Working Space, Add</i>	832.26 68.53	114.19
<b>22 66 53 00-0185 Glass Acid Resistant DWV Wyes</b> (22 66 53 00-0093)		
22 66 53 00-0186 EA 1-1/2" Glass Acid Resistant DWV Wye <i>For Work In Restricted Working Space, Add</i>	186.49 31.30	52.16
22 66 53 00-0187 EA 2" Glass Acid Resistant DWV Wye <i>For Work In Restricted Working Space, Add</i>	190.70 32.57	54.28
22 66 53 00-0188 EA 3" Glass Acid Resistant DWV Wye <i>For Work In Restricted Working Space, Add</i>	256.57 37.22	62.03
22 66 53 00-0189 EA 4" Glass Acid Resistant DWV Wye <i>For Work In Restricted Working Space, Add</i>	391.91 49.48	82.48
22 66 53 00-0190 EA 6" Glass Acid Resistant DWV Wye <i>For Work In Restricted Working Space, Add</i>	776.74 68.53	114.19
<b>22 66 53 00-0191 Glass Acid Resistant DWV Reducing Wyes</b> (22 66 53 00-0093)		
22 66 53 00-0192 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Wye <i>For Work In Restricted Working Space, Add</i>	189.27 32.14	53.58
22 66 53 00-0193 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Wye <i>For Work In Restricted Working Space, Add</i>	228.33 35.11	58.50
22 66 53 00-0194 EA 3" x 2" Glass Acid Resistant DWV Reducing Wye <i>For Work In Restricted Working Space, Add</i>	234.59 35.95	59.91
22 66 53 00-0195 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Wye <i>For Work In Restricted Working Space, Add</i>	317.09 43.57	72.60
22 66 53 00-0196 EA 4" x 2" Glass Acid Resistant DWV Reducing Wye <i>For Work In Restricted Working Space, Add</i>	320.06 43.98	73.31
22 66 53 00-0197 EA 4" x 3" Glass Acid Resistant DWV Reducing Wye <i>For Work In Restricted Working Space, Add</i>	346.86 45.26	75.43
22 66 53 00-0198 EA 6" x 2" Glass Acid Resistant DWV Reducing Wye <i>For Work In Restricted Working Space, Add</i>	565.07 56.66	94.45
22 66 53 00-0199 EA 6" x 3" Glass Acid Resistant DWV Reducing Wye <i>For Work In Restricted Working Space, Add</i>	651.99 57.94	96.58
22 66 53 00-0200 EA 6" x 4" Glass Acid Resistant DWV Reducing Wye <i>For Work In Restricted Working Space, Add</i>	708.34 62.16	103.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 66 53 00-0201 Glass Acid Resistant DWV Double Wyes</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0202 EA 1-1/2" Glass Acid Resistant DWV Double Wye .....	298.11	69.08
<i>For Work In Restricted Working Space, Add</i>	<i>41.45</i>	
22 66 53 00-0203 EA 2" Glass Acid Resistant DWV Double Wye.....	305.17	72.60
<i>For Work In Restricted Working Space, Add</i>	<i>43.57</i>	
22 66 53 00-0204 EA 3" Glass Acid Resistant DWV Double Wye.....	404.71	83.18
<i>For Work In Restricted Working Space, Add</i>	<i>49.90</i>	
22 66 53 00-0205 EA 4" Glass Acid Resistant DWV Double Wye.....	621.10	109.97
<i>For Work In Restricted Working Space, Add</i>	<i>65.96</i>	
22 66 53 00-0206 EA 6" Glass Acid Resistant DWV Double Wye.....	1,027.64	152.26
<i>For Work In Restricted Working Space, Add</i>	<i>91.39</i>	
<b>22 66 53 00-0207 Glass Acid Resistant DWV Reducing Double Wyes</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0208 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye .....	302.29	71.19
<i>For Work In Restricted Working Space, Add</i>	<i>42.71</i>	
22 66 53 00-0209 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye .....	312.18	76.13
<i>For Work In Restricted Working Space, Add</i>	<i>45.67</i>	
22 66 53 00-0210 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Wye .....	358.46	77.54
<i>For Work In Restricted Working Space, Add</i>	<i>46.52</i>	
22 66 53 00-0211 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Wye .....	439.47	89.53
<i>For Work In Restricted Working Space, Add</i>	<i>53.73</i>	
22 66 53 00-0212 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Wye .....	463.28	91.64
<i>For Work In Restricted Working Space, Add</i>	<i>54.99</i>	
22 66 53 00-0213 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Wye .....	542.28	96.58
<i>For Work In Restricted Working Space, Add</i>	<i>57.94</i>	
22 66 53 00-0214 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Wye .....	830.31	112.79
<i>For Work In Restricted Working Space, Add</i>	<i>67.65</i>	
22 66 53 00-0215 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Wye .....	871.34	117.72
<i>For Work In Restricted Working Space, Add</i>	<i>70.63</i>	
22 66 53 00-0216 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Wye .....	932.73	131.12
<i>For Work In Restricted Working Space, Add</i>	<i>78.67</i>	
<b>22 66 53 00-0217 Glass Acid Resistant DWV Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0218 EA 1-1/2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....	207.48	52.16
<i>For Work In Restricted Working Space, Add</i>	<i>31.30</i>	
22 66 53 00-0219 EA 2" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....	212.57	54.28
<i>For Work In Restricted Working Space, Add</i>	<i>32.57</i>	
22 66 53 00-0220 EA 3" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....	269.55	62.03
<i>For Work In Restricted Working Space, Add</i>	<i>37.22</i>	
22 66 53 00-0221 EA 4" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....	398.66	82.48
<i>For Work In Restricted Working Space, Add</i>	<i>49.48</i>	
22 66 53 00-0222 EA 6" Glass Acid Resistant DWV Combination Wye And 1/8 Bend .....	757.79	114.19
<i>For Work In Restricted Working Space, Add</i>	<i>68.53</i>	
<b>22 66 53 00-0223 Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0224 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	211.14	53.58
<i>For Work In Restricted Working Space, Add</i>	<i>32.14</i>	
22 66 53 00-0225 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	231.64	58.50
<i>For Work In Restricted Working Space, Add</i>	<i>35.11</i>	
22 66 53 00-0226 EA 3" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	247.84	59.91
<i>For Work In Restricted Working Space, Add</i>	<i>35.95</i>	
22 66 53 00-0227 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	309.14	72.60
<i>For Work In Restricted Working Space, Add</i>	<i>43.57</i>	
22 66 53 00-0228 EA 4" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	321.79	73.31
<i>For Work In Restricted Working Space, Add</i>	<i>43.98</i>	
22 66 53 00-0229 EA 4" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	348.85	75.43
<i>For Work In Restricted Working Space, Add</i>	<i>45.26</i>	
22 66 53 00-0230 EA 6" x 2" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	566.26	94.45
<i>For Work In Restricted Working Space, Add</i>	<i>56.66</i>	
22 66 53 00-0231 EA 6" x 3" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	640.47	96.58
<i>For Work In Restricted Working Space, Add</i>	<i>57.94</i>	
22 66 53 00-0232 EA 6" x 4" Glass Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	655.34	103.62
<i>For Work In Restricted Working Space, Add</i>	<i>62.16</i>	
<b>22 66 53 00-0233 Glass Acid Resistant DWV Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0234 EA 1-1/2" Double Glass Combination Wye And 1/8 Bend .....	278.23	69.08
<i>For Work In Restricted Working Space, Add</i>	<i>41.45</i>	
22 66 53 00-0235 EA 2" Double Glass Combination Wye And 1/8 Bend .....	321.86	72.60
<i>For Work In Restricted Working Space, Add</i>	<i>43.57</i>	
22 66 53 00-0236 EA 3" Double Glass Combination Wye And 1/8 Bend .....	429.89	83.18
<i>For Work In Restricted Working Space, Add</i>	<i>49.90</i>	
22 66 53 00-0237 EA 4" Double Glass Combination Wye And 1/8 Bend .....	679.67	109.97
<i>For Work In Restricted Working Space, Add</i>	<i>65.96</i>	
22 66 53 00-0238 EA 6" Double Glass Combination Wye And 1/8 Bend .....	1,121.13	152.26
<i>For Work In Restricted Working Space, Add</i>	<i>91.39</i>	

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 66 53 00-0239 Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0240 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	285.46	71.19
<i>For Work In Restricted Working Space, Add</i>	42.71	
22 66 53 00-0241 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	359.08	76.13
<i>For Work In Restricted Working Space, Add</i>	45.67	
22 66 53 00-0242 EA 3" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	354.22	77.54
<i>For Work In Restricted Working Space, Add</i>	46.52	
22 66 53 00-0243 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	472.06	89.53
<i>For Work In Restricted Working Space, Add</i>	53.73	
22 66 53 00-0244 EA 4" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	468.45	91.64
<i>For Work In Restricted Working Space, Add</i>	54.99	
22 66 53 00-0245 EA 4" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	523.86	96.58
<i>For Work In Restricted Working Space, Add</i>	57.94	
22 66 53 00-0246 EA 6" x 2" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	744.93	112.79
<i>For Work In Restricted Working Space, Add</i>	67.65	
22 66 53 00-0247 EA 6" x 3" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	793.16	117.72
<i>For Work In Restricted Working Space, Add</i>	70.63	
22 66 53 00-0248 EA 6" x 4" Glass Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	923.45	131.12
<i>For Work In Restricted Working Space, Add</i>	78.67	
<b>22 66 53 00-0249 Glass Acid Resistant DWV Partition Crosses (Compact)</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0250 EA 2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact).....	311.96	71.19
<i>For Work In Restricted Working Space, Add</i>	42.71	
22 66 53 00-0251 EA 2" Glass Acid Resistant DWV Partition Cross (Compact).....	314.84	72.60
<i>For Work In Restricted Working Space, Add</i>	43.57	
22 66 53 00-0252 EA 2" x 1-1/2" x 1-1/2" x 1-1/2" Glass Acid Resistant DWV Partition Cross (Compact).....	335.24	70.49
<i>For Work In Restricted Working Space, Add</i>	42.29	
<b>22 66 53 00-0253 Glass Acid Resistant DWV Upright Y Or H (Vent Branch)</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0254 EA 1-1/2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch).....	302.31	52.16
<i>For Work In Restricted Working Space, Add</i>	31.30	
22 66 53 00-0255 EA 2" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch).....	332.36	54.28
<i>For Work In Restricted Working Space, Add</i>	32.57	
22 66 53 00-0256 EA 3" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch).....	382.32	62.03
<i>For Work In Restricted Working Space, Add</i>	37.22	
22 66 53 00-0257 EA 4" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch).....	559.00	82.48
<i>For Work In Restricted Working Space, Add</i>	49.48	
22 66 53 00-0258 EA 6" Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch).....	1,040.29	114.19
<i>For Work In Restricted Working Space, Add</i>	68.53	
<b>22 66 53 00-0259 Glass Acid Resistant DWV Reducing Upright Y Or H (Vent Branch)</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0260 EA 2" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch).....	304.29	53.58
<i>For Work In Restricted Working Space, Add</i>	32.14	
22 66 53 00-0261 EA 3" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch).....	346.79	58.50
<i>For Work In Restricted Working Space, Add</i>	35.11	
22 66 53 00-0262 EA 3" x 2" Reducing Glass Upright Y Or H (Vent Branch).....	368.82	59.91
<i>For Work In Restricted Working Space, Add</i>	35.95	
22 66 53 00-0263 EA 4" x 1-1/2" Reducing Glass Upright Y Or H (Vent Branch).....	428.40	72.60
<i>For Work In Restricted Working Space, Add</i>	43.57	
22 66 53 00-0264 EA 4" x 2" Reducing Glass Upright Y Or H (Vent Branch).....	452.70	73.31
<i>For Work In Restricted Working Space, Add</i>	43.98	
22 66 53 00-0265 EA 4" x 3" Reducing Glass Upright Y Or H (Vent Branch).....	496.19	75.43
<i>For Work In Restricted Working Space, Add</i>	45.26	
22 66 53 00-0266 EA 6" x 3" Reducing Glass Upright Y Or H (Vent Branch).....	712.55	96.58
<i>For Work In Restricted Working Space, Add</i>	57.94	
22 66 53 00-0267 EA 6" x 4" Reducing Glass Upright Y Or H (Vent Branch).....	810.37	103.62
<i>For Work In Restricted Working Space, Add</i>	62.16	
<b>22 66 53 00-0268 Glass Acid Resistant DWV Reducers Or Increasers</b> <small>(22 66 53 00-0093)</small>		
22 66 53 00-0269 EA 2" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser.....	112.89	35.25
<i>For Eccentric Reducers Or Increasers, Add</i>	3.39	
<i>For Work In Restricted Working Space, Add</i>	21.15	
22 66 53 00-0270 EA 3" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser.....	139.07	38.06
<i>For Eccentric Reducers Or Increasers, Add</i>	5.04	
<i>For Work In Restricted Working Space, Add</i>	22.84	
22 66 53 00-0271 EA 3" x 2" Glass Acid Resistant DWV Reducer Or Increaser.....	148.03	38.77
<i>For Eccentric Reducers Or Increasers, Add</i>	5.64	
<i>For Work In Restricted Working Space, Add</i>	23.26	
22 66 53 00-0272 EA 4" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser.....	188.68	45.11
<i>For Eccentric Reducers Or Increasers, Add</i>	7.88	
<i>For Work In Restricted Working Space, Add</i>	27.07	
22 66 53 00-0273 EA 4" x 2" Glass Acid Resistant DWV Reducer Or Increaser.....	196.19	45.81
<i>For Eccentric Reducers Or Increasers, Add</i>	8.36	
<i>For Work In Restricted Working Space, Add</i>	27.49	
22 66 53 00-0274 EA 4" x 3" Glass Acid Resistant DWV Reducer Or Increaser.....	208.89	47.94
<i>For Eccentric Reducers Or Increasers, Add</i>	9.04	
<i>For Work In Restricted Working Space, Add</i>	28.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0275 EA 6" x 1-1/2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	397.60 22.90 33.41	55.69
22 66 53 00-0276 EA 6" x 2" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	417.16 24.35 33.84	56.39
22 66 53 00-0277 EA 6" x 3" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	442.18 26.01 35.10	58.50
22 66 53 00-0278 EA 6" x 4" Glass Acid Resistant DWV Reducer Or Increaser..... <i>For Eccentric Reducers Or Increasers, Add</i> <i>For Work In Restricted Working Space, Add</i>	465.69 26.77 39.33	65.55
<b>22 66 53 00-0279 Glass Acid Resistant DWV Swivel P-Traps</b> (22 66 53 00-0093)		
22 66 53 00-0280 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	253.53 31.30	52.16
22 66 53 00-0281 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	270.52 32.14	53.58
22 66 53 00-0282 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	301.76 32.57	54.28
22 66 53 00-0283 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	272.88 31.30	52.16
22 66 53 00-0284 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	295.17 32.14	53.58
22 66 53 00-0285 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	329.58 32.57	54.28
22 66 53 00-0286 EA 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	278.18 31.30	52.16
22 66 53 00-0287 EA 2" x 1-1/2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	295.17 32.14	53.58
22 66 53 00-0288 EA 2" Glass Acid Resistant DWV Swivel P-Trap..... <i>For Work In Restricted Working Space, Add</i>	329.58 32.57	54.28
<b>22 66 53 00-0289 Glass Acid Resistant DWV Drum P-Traps</b> (22 66 53 00-0093)		
22 66 53 00-0290 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	338.34 31.30	52.16
22 66 53 00-0291 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	421.18 32.14	53.58
22 66 53 00-0292 EA 2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	433.19 32.57	54.28
22 66 53 00-0293 EA 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	370.54 31.30	52.16
22 66 53 00-0294 EA 2" x 1-1/2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	392.16 32.14	53.58
22 66 53 00-0295 EA 2" Glass Acid Resistant DWV Drum P-Trap..... <i>For Work In Restricted Working Space, Add</i>	439.42 32.57	54.28
<b>22 66 53 00-0296 Glass Acid Resistant DWV Cleanout Plugs</b> (22 66 53 00-0093)		
22 66 53 00-0297 EA 1-1/2" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	54.99 10.58	17.62
22 66 53 00-0298 EA 2" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	61.56 11.00	18.33
22 66 53 00-0299 EA 3" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	76.53 12.27	20.44
22 66 53 00-0300 EA 4" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	119.11 16.49	27.49
22 66 53 00-0301 EA 6" Glass Acid Resistant DWV Cleanout Plug..... <i>For Work In Restricted Working Space, Add</i>	169.81 22.84	38.06
<b>22 66 53 00-0302 Glass Acid Resistant DWV Sink Fittings</b> (22 66 53 00-0093)		
22 66 53 00-0303 EA 1-1/2" Glass Acid Resistant DWV Interceptor Trap..... <i>For Work In Restricted Working Space, Add</i>	704.11 41.45	69.08
22 66 53 00-0304 EA 1-1/2" x 6-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly..... <i>For Work In Restricted Working Space, Add</i>	71.95 10.58	17.62
22 66 53 00-0305 EA 1-1/2" x 10-1/2" Long Glass Acid Resistant DWV Tailpiece Assembly..... <i>For Work In Restricted Working Space, Add</i>	78.98 10.58	17.62
22 66 53 00-0306 EA 1-1/2" Split Coupling (Threaded To Beaded Pipe) For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	113.95 21.15	35.25
22 66 53 00-0307 EA 3" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	218.41 21.99	36.65
22 66 53 00-0308 EA 6" Diameter Hemispherical Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	221.06 21.99	36.65
22 66 53 00-0309 EA 3" x 9" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	247.56 21.99	36.65
22 66 53 00-0310 EA 3" x 6" Oval Glass Beaded Outlet For Glass Acid Resistant DWV Pipe And Fittings..... <i>For Work In Restricted Working Space, Add</i>	204.09 21.99	36.65

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

22 66 53 00-0311		<b>Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapters</b> <small>(22 66 53 00-0093)</small> Note: Includes teflon spacer.		
22 66 53 00-0312	EA	1-1/2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter .....	202.35	52.02
		<i>For Work In Restricted Working Space, Add</i>	31.21	
22 66 53 00-0313	EA	2" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter .....	211.27	54.56
		<i>For Work In Restricted Working Space, Add</i>	32.73	
22 66 53 00-0314	EA	3" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter .....	287.35	62.17
		<i>For Work In Restricted Working Space, Add</i>	37.31	
22 66 53 00-0315	EA	4" Glass Acid Resistant DWV Pipe To High Silicon Cast Iron Pipe Mechanical Joint Adapter .....	407.71	82.62
		<i>For Work In Restricted Working Space, Add</i>	49.53	
22 66 53 00-0316		<b>Bead To Bead Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings</b> <small>(22 66 53 00-0093)</small> Note: Includes segmented stainless steel outer band, Buna-N rubber compression liner with TFE seal ring, stainless steel bolt and silver plated stainless hex nut.		
22 66 53 00-0317	EA	1-1/2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	33.26	
22 66 53 00-0318	EA	2" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	41.96	
22 66 53 00-0319	EA	3" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	56.10	
22 66 53 00-0320	EA	4" Bead To Bead Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	94.52	
22 66 53 00-0321	EA	6" Bead To Bead, Stainless Steel, TFE Seal Ring Couplings, Glass Piping.....	220.18	
22 66 53 00-0322		<b>Bead To Plain End Drainline Couplings For Glass Acid Resistant DWV Pipe And Fittings</b> <small>(22 66 53 00-0093)</small> Note: Includes stainless steel band with bolt, Buna-N rubber compression liner with TFE seal ring and silver plated stainless hex nut.		
22 66 53 00-0323	EA	1-1/2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	42.89	
22 66 53 00-0324	EA	2" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	53.67	
22 66 53 00-0325	EA	3" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	91.12	
22 66 53 00-0326	EA	4" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	135.82	
22 66 53 00-0327	EA	6" Bead To Plain End Drainline Coupling For Glass Acid Resistant DWV Pipe And Fittings.....	331.17	
22 66 53 00-0328		<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings</b> <small>(22 66 53)</small> Note: Acid resistant. ASTM A518.		
22 66 53 00-0329		<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe</b> <small>(22 66 53 00-0328)</small>		
22 66 53 00-0330	LF	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....	137.27	12.55
22 66 53 00-0331	LF	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....	193.16	15.65
22 66 53 00-0332	LF	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....	262.73	18.05
22 66 53 00-0333	LF	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....	428.73	23.73
22 66 53 00-0334	LF	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....	757.62	32.06
22 66 53 00-0335	LF	10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....	1,340.83	40.43
22 66 53 00-0336	LF	12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....	2,391.96	54.46
22 66 53 00-0337	LF	15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe .....	4,262.46	62.44
22 66 53 00-0338		<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings</b> <small>(22 66 53 00-0328)</small>		
22 66 53 00-0339		<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps</b> <small>(22 66 53 00-0338)</small>		
22 66 53 00-0340	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	550.18	106.86
22 66 53 00-0341	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	718.59	117.58
22 66 53 00-0342	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	1,165.79	140.70
22 66 53 00-0343	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	1,718.71	156.77
22 66 53 00-0344	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	3,960.08	257.65
22 66 53 00-0345		<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends</b> <small>(22 66 53 00-0338)</small>		
22 66 53 00-0346	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	321.57	106.86
22 66 53 00-0347	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	418.28	117.58
22 66 53 00-0348	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	524.82	140.70
22 66 53 00-0349	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,364.60	156.77
22 66 53 00-0350	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	3,107.08	257.65
22 66 53 00-0351	EA	10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	4,723.22	321.00
22 66 53 00-0352	EA	12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	6,941.55	386.02
22 66 53 00-0353		<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends</b> <small>(22 66 53 00-0338)</small>		
22 66 53 00-0354	EA	2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	321.57	106.86
22 66 53 00-0355	EA	3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	418.28	117.58
22 66 53 00-0356	EA	4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	524.82	140.70
22 66 53 00-0357	EA	6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	997.05	156.77
22 66 53 00-0358	EA	8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,631.95	257.65
22 66 53 00-0359	EA	10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	3,849.83	321.00
22 66 53 00-0360	EA	12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	5,463.04	386.02





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0361				<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends</b> <small>(22 66 53 00-0338)</small>		
	22 66 53 00-0362	EA		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	321.57	106.86
	22 66 53 00-0363	EA		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	418.28	117.58
	22 66 53 00-0364	EA		4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	524.48	140.56
22 66 53 00-0365				<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps</b> <small>(22 66 53 00-0338)</small>		
	22 66 53 00-0366	EA		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	438.12	106.86
	22 66 53 00-0367	EA		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	772.38	117.58
	22 66 53 00-0368	EA		4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	865.47	140.70
22 66 53 00-0369				<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees</b> <small>(22 66 53 00-0338)</small>		
	22 66 53 00-0370	EA		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	454.91	159.88
	22 66 53 00-0371	EA		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	570.50	177.21
	22 66 53 00-0372	EA		4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	792.43	211.61
	22 66 53 00-0373	EA		6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	1,294.50	235.59
	22 66 53 00-0374	EA		8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	3,991.01	386.79
	22 66 53 00-0375	EA		10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	5,670.24	482.98
22 66 53 00-0376				<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees</b> <small>(22 66 53 00-0338)</small>		
	22 66 53 00-0377	EA		2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	427.02	153.25
	22 66 53 00-0378	EA		3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	497.72	164.52
	22 66 53 00-0379	EA		3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	555.65	170.30
	22 66 53 00-0380	EA		4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	636.07	188.07
	22 66 53 00-0381	EA		4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	680.91	193.99
	22 66 53 00-0382	EA		4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	747.64	199.77
	22 66 53 00-0383	EA		6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	911.52	203.86
	22 66 53 00-0384	EA		6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	1,012.79	209.11
	22 66 53 00-0385	EA		6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	1,134.75	218.72
22 66 53 00-0386				<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees</b> <small>(22 66 53 00-0338)</small>		
	22 66 53 00-0387	EA		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	517.59	159.88
	22 66 53 00-0388	EA		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	623.59	176.79
	22 66 53 00-0389	EA		4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	850.64	211.61
22 66 53 00-0390				<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees</b> <small>(22 66 53 00-0338)</small>		
	22 66 53 00-0391	EA		2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	489.74	153.25
	22 66 53 00-0392	EA		3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	610.62	171.15
	22 66 53 00-0393	EA		4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	735.52	194.55
	22 66 53 00-0394	EA		4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	788.87	200.33
22 66 53 00-0395				<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes</b> <small>(22 66 53 00-0338)</small>		
	22 66 53 00-0396	EA		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	450.73	160.16
	22 66 53 00-0397	EA		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	619.81	177.21
	22 66 53 00-0398	EA		4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	792.17	211.47
	22 66 53 00-0399	EA		6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	1,302.10	234.71
	22 66 53 00-0400	EA		8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	5,003.44	386.41
22 66 53 00-0401				<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes</b> <small>(22 66 53 00-0338)</small>		
	22 66 53 00-0402	EA		2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	462.84	153.25
	22 66 53 00-0403	EA		3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	497.65	164.52
	22 66 53 00-0404	EA		3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	525.75	171.29
	22 66 53 00-0405	EA		4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	586.76	188.07
	22 66 53 00-0406	EA		4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	609.54	194.27
	22 66 53 00-0407	EA		4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	730.60	200.33
	22 66 53 00-0408	EA		6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	960.45	204.12
	22 66 53 00-0409	EA		6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,142.78	209.11
	22 66 53 00-0410	EA		6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	1,193.03	218.72
	22 66 53 00-0411	EA		8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	2,937.19	311.73
	22 66 53 00-0412	EA		8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	3,172.25	322.02
	22 66 53 00-0413	EA		8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	3,882.64	338.51
22 66 53 00-0414				<b>Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0338)</small>		
	22 66 53 00-0415	EA		2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	535.44	159.88
	22 66 53 00-0416	EA		3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	637.04	176.79

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0417 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	940.29	211.61
22 66 53 00-0418 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	1,419.09	234.96
<b>22 66 53 00-0419 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0338)</small>		
22 66 53 00-0420 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	444.91	153.25
22 66 53 00-0421 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	515.58	164.52
22 66 53 00-0422 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	570.27	171.15
22 66 53 00-0423 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	618.14	188.07
22 66 53 00-0424 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	713.11	194.55
22 66 53 00-0425 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	806.72	200.19
22 66 53 00-0426 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	1,018.64	204.12
22 66 53 00-0427 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	1,272.85	209.23
22 66 53 00-0428 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	1,395.27	219.10
<b>22 66 53 00-0429 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers</b> <small>(22 66 53 00-0338)</small>		
22 66 53 00-0430 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	276.39	100.66
22 66 53 00-0431 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	302.74	106.30
22 66 53 00-0432 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	338.11	111.94
22 66 53 00-0433 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	540.20	124.07
22 66 53 00-0434 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	566.60	129.84
22 66 53 00-0435 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	599.55	130.78
22 66 53 00-0436 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	780.36	140.78
22 66 53 00-0437 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	1,136.83	193.27
22 66 53 00-0438 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer .....	1,210.71	209.62
<b>22 66 53 00-0439 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers</b> <small>(22 66 53 00-0338)</small>		
22 66 53 00-0440 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser .....	737.93	235.01
22 66 53 00-0441 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser .....	971.01	235.01
22 66 53 00-0442 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser .....	991.93	235.01
22 66 53 00-0443 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser .....	1,087.15	291.68
<b>22 66 53 00-0444 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps</b> <small>(22 66 53 00-0338)</small>		
22 66 53 00-0445 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	814.63	106.86
22 66 53 00-0446 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	983.05	117.58
22 66 53 00-0447 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	1,197.17	140.70
22 66 53 00-0448 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	3,502.69	156.77
<b>22 66 53 00-0449 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs</b> <small>(22 66 53 00-0338)</small>		
22 66 53 00-0450 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	406.74	106.86
22 66 53 00-0451 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	512.41	117.58
22 66 53 00-0452 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	704.11	140.70
22 66 53 00-0453 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	888.73	156.77
22 66 53 00-0454 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub .....	1,735.44	218.72
<b>22 66 53 00-0455 Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings</b> <small>(22 66 53 00-0328)</small>		
Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.		
22 66 53 00-0456 LB Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings .....	7.19	
22 66 53 00-0457 LB Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings .....	82.18	
<b>22 66 53 00-0458 Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings</b> <small>(22 66 53)</small>		
Note: ASTM A518.		
<b>22 66 53 00-0459 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe</b> <small>(22 66 53 00-0458)</small>		
22 66 53 00-0460 LF 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe .....	108.90	9.44
22 66 53 00-0461 LF 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe .....	123.92	10.43
22 66 53 00-0462 LF 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe .....	170.88	13.11
22 66 53 00-0463 LF 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe .....	215.48	15.22
<b>22 66 53 00-0464 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings</b> <small>(22 66 53 00-0458)</small>		
<b>22 66 53 00-0465 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps</b> <small>(22 66 53 00-0464)</small>		
22 66 53 00-0466 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	403.63	74.87
22 66 53 00-0467 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	436.16	84.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0468 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	597.07	93.33
22 66 53 00-0469 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep .....	720.51	112.79
<b>22 66 53 00-0470 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0464)</b>		
22 66 53 00-0471 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....	228.82	74.87
22 66 53 00-0472 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	273.49	83.74
22 66 53 00-0473 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	351.02	93.61
22 66 53 00-0474 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	459.26	111.94
22 66 53 00-0475 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend .....	266.51	79.09
<b>22 66 53 00-0476 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0464)</b>		
22 66 53 00-0477 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend .....	228.82	74.87
22 66 53 00-0478 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	273.49	83.74
22 66 53 00-0479 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	351.02	93.61
22 66 53 00-0480 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	459.26	111.94
<b>22 66 53 00-0481 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends (22 66 53 00-0464)</b>		
22 66 53 00-0482 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend .....	269.16	74.87
22 66 53 00-0483 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	336.24	83.74
22 66 53 00-0484 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	516.87	93.61
22 66 53 00-0485 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	580.29	111.94
<b>22 66 53 00-0486 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0464)</b>		
22 66 53 00-0487 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend .....	260.20	74.87
22 66 53 00-0488 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	309.35	83.74
22 66 53 00-0489 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	476.53	93.61
22 66 53 00-0490 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	539.95	111.94
<b>22 66 53 00-0491 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends (22 66 53 00-0464)</b>		
22 66 53 00-0492 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	393.01	112.64
<b>22 66 53 00-0493 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees (22 66 53 00-0464)</b>		
22 66 53 00-0494 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee .....	321.29	112.64
22 66 53 00-0495 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee .....	396.41	126.88
22 66 53 00-0496 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee .....	521.29	141.40
22 66 53 00-0497 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee .....	787.17	169.32
<b>22 66 53 00-0498 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees (22 66 53 00-0464)</b>		
22 66 53 00-0499 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee .....	371.34	122.09
22 66 53 00-0500 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee .....	452.83	131.68
22 66 53 00-0501 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	482.23	136.33
22 66 53 00-0502 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee .....	516.80	150.42
22 66 53 00-0503 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	568.11	154.66
22 66 53 00-0504 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	615.47	159.30
<b>22 66 53 00-0505 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0464)</b>		
22 66 53 00-0506 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	321.85	113.07
22 66 53 00-0507 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	378.48	126.88
22 66 53 00-0508 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	503.36	141.40
22 66 53 00-0509 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	787.17	169.32
<b>22 66 53 00-0510 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes (22 66 53 00-0464)</b>		
22 66 53 00-0511 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	358.82	122.79
22 66 53 00-0512 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	439.35	131.54
22 66 53 00-0513 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	460.43	136.75
22 66 53 00-0514 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye .....	517.48	150.85
22 66 53 00-0515 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	569.37	155.50
22 66 53 00-0516 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	602.61	159.74
<b>22 66 53 00-0517 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes (22 66 53 00-0464)</b>		
22 66 53 00-0518 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	481.23	150.56
22 66 53 00-0519 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	612.56	169.46

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0520 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	783.08	187.50
22 66 53 00-0521 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	1,019.30	225.43
22 66 53 00-0522 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	530.48	159.45
22 66 53 00-0523 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	593.85	168.90
22 66 53 00-0524 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	706.54	178.20
22 66 53 00-0525 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	779.93	197.37
22 66 53 00-0526 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye .....	938.36	207.38
<b>22 66 53 00-0527 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses</b> <small>(22 66 53 00-0464)</small>		
22 66 53 00-0528 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	534.93	150.56
22 66 53 00-0529 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	630.16	169.18
22 66 53 00-0530 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	901.24	188.50
22 66 53 00-0531 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	1,257.23	225.71
22 66 53 00-0532 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	575.23	159.45
22 66 53 00-0533 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross .....	750.68	168.90
22 66 53 00-0534 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	791.61	178.20
22 66 53 00-0535 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	847.09	197.23
22 66 53 00-0536 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	1,076.22	206.54
<b>22 66 53 00-0537 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0464)</small>		
22 66 53 00-0538 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	356.59	112.22
22 66 53 00-0539 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	414.34	126.88
22 66 53 00-0540 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	503.36	141.40
22 66 53 00-0541 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend .....	836.48	169.32
<b>22 66 53 00-0542 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0464)</small>		
22 66 53 00-0543 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	393.86	122.23
22 66 53 00-0544 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	439.92	131.96
22 66 53 00-0545 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	478.36	136.75
22 66 53 00-0546 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend .....	647.47	150.85
22 66 53 00-0547 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	663.50	155.50
22 66 53 00-0548 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	741.56	159.74
<b>22 66 53 00-0549 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0464)</small>		
22 66 53 00-0550 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	566.00	150.28
22 66 53 00-0551 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	710.71	169.04
22 66 53 00-0552 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	1,021.23	187.93
22 66 53 00-0553 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	1,226.57	226.13
<b>22 66 53 00-0554 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0464)</small>		
22 66 53 00-0555 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....	615.57	159.45
22 66 53 00-0556 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend .....	737.20	168.76
22 66 53 00-0557 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	769.19	178.20
22 66 53 00-0558 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	856.05	197.23
22 66 53 00-0559 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend.....	1,076.22	206.54
<b>22 66 53 00-0560 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers</b> <small>(22 66 53 00-0464)</small>		
22 66 53 00-0561 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	267.69	79.93
22 66 53 00-0562 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	301.62	84.59
22 66 53 00-0563 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	354.15	98.69
22 66 53 00-0564 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	418.47	93.75
22 66 53 00-0565 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	443.43	98.41
22 66 53 00-0566 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser .....	468.39	103.06
<b>22 66 53 00-0567 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees</b> <small>(22 66 53 00-0464)</small>		
22 66 53 00-0568 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....	246.60	65.83
22 66 53 00-0569 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....	286.42	74.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0570 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....	336.98	84.31
22 66 53 00-0571 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee .....	611.12	102.63
<b>22 66 53 00-0572 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs (22 66 53 00-0464)</b>		
22 66 53 00-0573 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug .....	109.93	37.50
22 66 53 00-0574 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug .....	130.02	41.87
22 66 53 00-0575 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug .....	141.90	46.81
22 66 53 00-0576 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug .....	182.57	55.97
<b>22 66 53 00-0577 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps (22 66 53 00-0464)</b>		
22 66 53 00-0578 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	447.79	74.44
22 66 53 00-0579 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	461.75	83.74
22 66 53 00-0580 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	570.66	93.61
22 66 53 00-0581 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap .....	728.20	111.94
22 66 53 00-0582 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap .....	621.98	80.07
22 66 53 00-0583 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap .....	855.72	89.39
22 66 53 00-0584 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap .....	1,035.42	98.69
22 66 53 00-0585 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap .....	1,287.83	117.58
<b>22 66 53 00-0586 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps (22 66 53 00-0464)</b>		
22 66 53 00-0587 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap .....	831.12	85.01
22 66 53 00-0588 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap .....	1,310.88	94.03
22 66 53 00-0589 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap .....	866.47	84.59
22 66 53 00-0590 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap .....	1,310.88	94.03
<b>22 66 53 00-0591 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps (22 66 53 00-0464)</b>		
22 66 53 00-0592 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap .....	772.34	84.59
22 66 53 00-0593 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap .....	907.46	94.03
22 66 53 00-0594 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap .....	893.36	84.59
22 66 53 00-0595 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap .....	1,960.82	94.03
22 66 53 00-0596 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap .....	1,167.44	94.03
<b>22 66 53 00-0597 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends (22 66 53 00-0464)</b>		
22 66 53 00-0598 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend .....	323.46	75.29
22 66 53 00-0599 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend .....	422.72	84.59
<b>22 66 53 00-0600 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters (22 66 53 00-0464)</b>		
22 66 53 00-0601 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter .....	165.27	56.39
22 66 53 00-0602 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter .....	302.31	61.19
22 66 53 00-0603 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter .....	222.28	70.49
<b>22 66 53 00-0604 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter (22 66 53 00-0464)</b>		
22 66 53 00-0605 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter .....	308.60	80.21
22 66 53 00-0606 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter .....	337.48	84.59
22 66 53 00-0607 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter .....	375.91	89.24
22 66 53 00-0608 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter .....	403.08	98.41
22 66 53 00-0609 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter .....	375.98	89.39
22 66 53 00-0610 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter .....	396.40	94.03
22 66 53 00-0611 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter .....	428.04	103.06
22 66 53 00-0612 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter .....	484.21	98.69
22 66 53 00-0613 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter .....	597.57	117.58
<b>22 66 53 00-0614 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings (22 66 53 00-0464)</b>		
22 66 53 00-0615 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting .....	107.58	
22 66 53 00-0616 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting .....	125.51	
22 66 53 00-0617 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting .....	134.47	
22 66 53 00-0618 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting .....	147.92	
<b>22 66 53 00-0619 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings (22 66 53 00-0464)</b>		
22 66 53 00-0620 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet .....	795.98	37.64
22 66 53 00-0621 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper .....	301.62	18.75

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0622 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow.....	561.60	18.75
<b>22 66 53 00-0623 Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates</b> <small>(22 66 53 00-0464)</small>		
22 66 53 00-0624 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer.....	2,854.84	188.07
22 66 53 00-0625 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer.....	3,523.35	197.52
22 66 53 00-0626 EA Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain.....	2,367.98	18.75
<b>22 66 53 00-0627 Chlorinated Polyvinyl Chloride (CPVC) Drain-Waste-Vent (DWV) Pipe And Fittings (ASTM F2618)</b> <small>(22 66 53)</small>		
<b>22 66 53 00-0628 Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe</b> <small>(22 66 53 00-0627)</small> Note: Excludes fittings or hangers.		
22 66 53 00-0629 LF 1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	17.86	5.92
22 66 53 00-0630 LF 2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	22.80	7.05
22 66 53 00-0631 LF 3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	37.25	10.15
22 66 53 00-0632 LF 4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	47.78	11.00
22 66 53 00-0633 LF 6" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	75.28	12.49
22 66 53 00-0634 LF 8" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) DWV Pipe.....	168.81	16.61
<b>22 66 53 00-0635 Chlorinated Polyvinyl Chloride (CPVC) DWV Fittings</b> <small>(22 66 53 00-0627)</small>		
<b>22 66 53 00-0636 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0637 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	69.91	23.54
Note: 0.125 <i>For Work In Restricted Working Space, Add</i>	10.58	
22 66 53 00-0638 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	88.16	30.03
Note: 0.16 <i>For Work In Restricted Working Space, Add</i>	13.53	
22 66 53 00-0639 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	133.75	40.32
Note: 0.215 <i>For Work In Restricted Working Space, Add</i>	18.19	
22 66 53 00-0640 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	186.81	46.95
Note: 0.25 <i>For Work In Restricted Working Space, Add</i>	21.15	
22 66 53 00-0641 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	392.67	61.05
Note: 0.325 <i>For Work In Restricted Working Space, Add</i>	27.49	
22 66 53 00-0642 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/4 Bends.....	542.93	82.20
Note: 0.438 <i>For Work In Restricted Working Space, Add</i>	37.01	
<b>22 66 53 00-0643 Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends</b> <small>(22 66 53 00- 0635)</small>		
22 66 53 00-0644 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends.....	71.11	23.54
<i>For Work In Restricted Working Space, Add</i>	10.58	
22 66 53 00-0645 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends.....	93.99	30.03
<i>For Work In Restricted Working Space, Add</i>	13.53	
22 66 53 00-0646 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends.....	144.25	40.32
<i>For Work In Restricted Working Space, Add</i>	18.19	
22 66 53 00-0647 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Long Sweep 1/4 Bends.....	190.67	46.95
<i>For Work In Restricted Working Space, Add</i>	21.15	
<b>22 66 53 00-0648 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0649 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends.....	69.30	23.54
<i>For Work In Restricted Working Space, Add</i>	10.58	
22 66 53 00-0650 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends.....	86.59	30.03
<i>For Work In Restricted Working Space, Add</i>	13.53	
22 66 53 00-0651 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends.....	136.76	40.32
<i>For Work In Restricted Working Space, Add</i>	18.19	
22 66 53 00-0652 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends.....	156.77	46.95
<i>For Work In Restricted Working Space, Add</i>	21.15	
22 66 53 00-0653 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends.....	343.63	61.05
<i>For Work In Restricted Working Space, Add</i>	27.49	
22 66 53 00-0654 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/8 Bends.....	486.70	82.20
<i>For Work In Restricted Working Space, Add</i>	37.01	
<b>22 66 53 00-0655 Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0656 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends.....	69.98	23.54
<i>For Work In Restricted Working Space, Add</i>	10.58	
22 66 53 00-0657 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends.....	86.54	30.03
<i>For Work In Restricted Working Space, Add</i>	13.53	
22 66 53 00-0658 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends.....	135.51	40.32
<i>For Work In Restricted Working Space, Add</i>	18.19	
22 66 53 00-0659 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends.....	166.56	46.95
<i>For Work In Restricted Working Space, Add</i>	21.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0660 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends..... <i>For Work In Restricted Working Space, Add</i>	283.72 27.49	61.05
22 66 53 00-0661 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV 1/16 Bends..... <i>For Work In Restricted Working Space, Add</i>	321.41 37.01	82.20
<b>22 66 53 00-0662 Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends</b> (22 66 53 00-0635)		
22 66 53 00-0663 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	375.07 27.28	60.63
22 66 53 00-0664 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	289.93 20.30	45.11
22 66 53 00-0665 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double 1/4 Bends..... <i>For Work In Restricted Working Space, Add</i>	180.02 15.86	35.25
<b>22 66 53 00-0666 Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees</b> (22 66 53 00-0635)		
22 66 53 00-0667 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	95.91 15.86	35.25
22 66 53 00-0668 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	119.25 20.30	45.11
22 66 53 00-0669 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	194.14 27.28	60.63
22 66 53 00-0670 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	260.33 31.72	70.49
22 66 53 00-0671 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	652.73 41.24	91.50
22 66 53 00-0672 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	903.06 55.51	123.21
<b>22 66 53 00-0673 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees</b> (22 66 53 00-0635)		
22 66 53 00-0674 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	109.27 17.34	38.48
22 66 53 00-0675 EA 2" x 1-1/2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	116.54 18.82	41.73
22 66 53 00-0676 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	114.21 18.82	41.73
22 66 53 00-0677 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	167.82 23.47	52.16
22 66 53 00-0678 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	179.49 24.95	55.41
22 66 53 00-0679 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	231.17 27.92	62.03
22 66 53 00-0680 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	245.11 30.24	67.10
22 66 53 00-0681 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	487.70 38.06	84.45
22 66 53 00-0682 EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	1,099.53 47.58	105.60
<b>22 66 53 00-0683 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees</b> (22 66 53 00-0635)		
22 66 53 00-0684 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	135.35 21.15	46.95
22 66 53 00-0685 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	166.72 27.07	60.05
22 66 53 00-0686 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	223.53 36.37	80.78
22 66 53 00-0687 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	277.50 42.29	93.89
<b>22 66 53 00-0688 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Sanitary Tees</b> (22 66 53 00-0635)		
22 66 53 00-0689 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	165.80 24.11	53.58
22 66 53 00-0690 EA 3" x 3" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	198.00 28.76	63.86
22 66 53 00-0691 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	249.51 31.72	70.49
22 66 53 00-0692 EA 4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	226.54 34.68	76.98
22 66 53 00-0693 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	253.62 39.34	87.26
<b>22 66 53 00-0694 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers</b> (22 66 53 00-0635)		
22 66 53 00-0695 EA 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	93.16 12.05	26.79
22 66 53 00-0696 EA 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	103.87 14.38	31.86

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0697 EA 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	164.73 15.86	35.25
22 66 53 00-0698 EA 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	180.73 17.34	38.48
22 66 53 00-0699 EA 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	199.69 19.67	43.70
22 66 53 00-0700 EA 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	268.48 22.84	50.75
22 66 53 00-0701 EA 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	307.89 24.32	54.00
<b>22 66 53 00-0702 Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushings (22 66 53 00-0635)</b>		
22 66 53 00-0703 EA 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.05 12.05	26.79
22 66 53 00-0704 EA 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	78.44 14.38	31.86
22 66 53 00-0705 EA 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	86.12 15.86	35.25
22 66 53 00-0706 EA 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	131.63 17.34	38.48
22 66 53 00-0707 EA 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	141.09 19.67	43.70
22 66 53 00-0708 EA 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	214.70 22.84	50.75
22 66 53 00-0709 EA 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	213.21 24.32	54.00
22 66 53 00-0710 EA 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	577.33 29.10	64.57
22 66 53 00-0711 EA 8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	608.68 32.27	71.62
<b>22 66 53 00-0712 Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps (22 66 53 00-0635)</b>		
22 66 53 00-0713 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	120.45 15.86	35.25
22 66 53 00-0714 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	161.98 20.30	45.11
22 66 53 00-0715 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	262.11 27.28	60.63
22 66 53 00-0716 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	410.00 31.72	70.49
<b>22 66 53 00-0717 Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes (22 66 53 00-0635)</b>		
22 66 53 00-0718 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	96.75 15.86	35.25
22 66 53 00-0719 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	129.24 20.30	45.11
22 66 53 00-0720 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	200.66 27.28	60.63
22 66 53 00-0721 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	265.68 31.72	70.49
22 66 53 00-0722 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	543.48 41.24	91.50
22 66 53 00-0723 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	626.99 55.51	123.21
<b>22 66 53 00-0724 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes (22 66 53 00-0635)</b>		
22 66 53 00-0725 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	105.77 17.34	38.48
22 66 53 00-0726 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	124.30 18.82	41.73
22 66 53 00-0727 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	172.72 23.47	52.16
22 66 53 00-0728 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	185.46 24.95	55.41
22 66 53 00-0729 EA 4" x 4" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	189.64 26.43	58.65
22 66 53 00-0730 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	240.26 27.92	62.03
22 66 53 00-0731 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	254.33 30.24	67.10
22 66 53 00-0732 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	390.54 38.06	84.45
22 66 53 00-0733 EA 8" x 8" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	465.74 47.58	105.60
22 66 53 00-0734 EA 8" x 8" x 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	511.00 50.75	112.64
<b>22 66 53 00-0735 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes (22 66 53 00-0635)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0736 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	152.84 21.15	46.95
22 66 53 00-0737 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	177.28 27.07	60.05
22 66 53 00-0738 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	278.61 36.37	80.78
22 66 53 00-0739 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	499.99 42.29	93.89
22 66 53 00-0740 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	807.60 54.98	122.09
<b>22 66 53 00-0741 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Wyes</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0742 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	210.99 24.11	53.58
22 66 53 00-0743 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	266.48 31.72	70.49
22 66 53 00-0744 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	449.14 39.34	87.26
22 66 53 00-0745 EA 6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	659.09 48.64	107.99
<b>22 66 53 00-0746 Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0747 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	110.16 15.86	35.25
22 66 53 00-0748 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	144.14 20.30	45.11
22 66 53 00-0749 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	212.99 27.28	60.63
22 66 53 00-0750 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	279.10 31.72	70.49
22 66 53 00-0751 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	606.02 41.24	91.50
22 66 53 00-0752 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	1,047.19 55.51	123.21
<b>22 66 53 00-0753 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0754 EA 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	105.47 17.34	38.48
22 66 53 00-0755 EA 2" x 2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	131.58 18.82	41.73
22 66 53 00-0756 EA 3" x 3" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	179.77 23.47	52.16
22 66 53 00-0757 EA 3" x 3" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	193.16 24.95	55.41
22 66 53 00-0758 EA 4" x 4" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	245.34 27.92	62.03
22 66 53 00-0759 EA 4" x 4" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	260.58 30.24	67.10
22 66 53 00-0760 EA 6" x 6" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	476.62 36.59	81.20
22 66 53 00-0761 EA 6" x 6" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	495.21 38.06	84.45
<b>22 66 53 00-0762 Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0763 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	163.53 21.15	46.95
22 66 53 00-0764 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	241.37 27.07	60.05
22 66 53 00-0765 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	381.01 36.37	80.78
22 66 53 00-0766 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	633.23 42.29	93.89
22 66 53 00-0767 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	869.20 54.98	122.09
<b>22 66 53 00-0768 Chlorinated Polyvinyl Chloride (CPVC) DWV Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0769 EA 2" x 2" x 1-1/2" x 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	211.00 24.11	53.58
22 66 53 00-0770 EA 3" x 3" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	323.52 31.72	70.49
22 66 53 00-0771 EA 4" x 4" x 2" x 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	388.31 34.68	76.98

**22 Plumbing****22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities****22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0772 EA 4" x 4" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	403.83 39.34	87.26
22 66 53 00-0773 EA 6" x 6" x 3" x 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	508.44 45.68	101.36
22 66 53 00-0774 EA 6" x 6" x 4" x 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	568.59 48.64	107.99
<b>22 66 53 00-0775 Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees With Plug</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0776 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	104.14 15.86	35.25
22 66 53 00-0777 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	124.32 20.30	45.11
22 66 53 00-0778 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	209.69 27.28	60.63
22 66 53 00-0779 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	267.47 31.72	70.49
22 66 53 00-0780 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Tees <i>For Work In Restricted Working Space, Add</i>	574.24 41.24	91.50
22 66 53 00-0781 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	25.37 5.29	11.70
22 66 53 00-0782 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	31.04 6.77	14.94
22 66 53 00-0783 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	45.12 9.09	20.16
22 66 53 00-0784 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	51.86 10.58	23.40
22 66 53 00-0785 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Plug <i>For Work In Restricted Working Space, Add</i>	84.55 13.74	30.45
<b>22 66 53 00-0786 Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0787 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	57.67 10.58	23.54
22 66 53 00-0788 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	71.54 13.53	30.03
22 66 53 00-0789 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	109.40 18.19	40.32
22 66 53 00-0790 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	154.38 21.15	46.95
22 66 53 00-0791 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	236.76 27.49	61.05
22 66 53 00-0792 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	412.31 37.05	82.20
<b>22 66 53 00-0793 Chlorinated Polyvinyl Chloride (CPVC) Couplings</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0794 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	62.33 10.58	23.54
22 66 53 00-0795 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	78.90 13.53	30.03
22 66 53 00-0796 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	103.87 18.19	40.32
22 66 53 00-0797 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	132.02 21.15	46.95
22 66 53 00-0798 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	189.16 27.49	61.05
22 66 53 00-0799 EA 8" Chlorinated Polyvinyl Chloride (CPVC) Couplings <i>For Work In Restricted Working Space, Add</i>	386.48 37.05	82.20
<b>22 66 53 00-0800 Chlorinated Polyvinyl Chloride (CPVC) Female Adapters</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0801 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	38.92	11.70
22 66 53 00-0802 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	51.57	15.08
22 66 53 00-0803 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	78.18	20.16
22 66 53 00-0804 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	127.28	23.54
22 66 53 00-0805 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Female Adapters	199.97	30.45
<b>22 66 53 00-0806 Chlorinated Polyvinyl Chloride (CPVC) Male Adapters</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0807 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	43.12	11.70
22 66 53 00-0808 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	60.84	15.08
22 66 53 00-0809 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	72.23	20.16
22 66 53 00-0810 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	122.64	23.54
22 66 53 00-0811 EA 6" Chlorinated Polyvinyl Chloride (CPVC) Male Adapters	163.77	30.45
<b>22 66 53 00-0812 Chlorinated Polyvinyl Chloride (CPVC) Caps</b> <small>(22 66 53 00-0635)</small>		
22 66 53 00-0813 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap	38.67	11.70
22 66 53 00-0814 EA 2" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap	47.75	15.08
22 66 53 00-0815 EA 3" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap	73.85	20.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0816 EA 4" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	124.01	23.54
22 66 53 00-0817 EA 6" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	158.29	30.45
22 66 53 00-0818 EA 8" Chlorinated Polyvinyl Chloride (CPVC) DWV Cap.....	247.23	41.17
 <b>22 66 83 Chemical-Waste Tanks (22 66)</b>		
<b>22 66 83 16 Chemical-Waste Neutralization Tanks (22 66 83)</b>		
<b>22 66 83 16-0001 Acid Neutralization Tank (22 66 83 16)</b>		
<b>22 66 83 16-0002 Polyethylene Acid Neutralization Tank (22 66 83 16-0001)</b>		
22 66 83 16-0003 EA 5 Gallon Capacity Polyethylene Acid Neutralization Tank .....	655.13	287.12
22 66 83 16-0004 EA 15 Gallon Capacity Polyethylene Acid Neutralization Tank .....	1,159.94	398.14
22 66 83 16-0005 EA 30 Gallon Capacity Polyethylene Acid Neutralization Tank .....	1,460.00	574.24
22 66 83 16-0006 EA 55 Gallon Capacity Polyethylene Acid Neutralization Tank .....	1,880.56	765.66
22 66 83 16-0007 EA 100 Gallon Capacity Polyethylene Acid Neutralization Tank .....	2,400.42	918.79
22 66 83 16-0008 EA 150 Gallon Capacity Polyethylene Acid Neutralization Tank .....	3,258.06	1,148.49
22 66 83 16-0009 EA 200 Gallon Capacity Polyethylene Acid Neutralization Tank .....	3,786.13	1,435.61
22 66 83 16-0010 EA 275 Gallon Capacity Polyethylene Acid Neutralization Tank .....	4,883.68	1,722.72
22 66 83 16-0011 EA 350 Gallon Capacity Polyethylene Acid Neutralization Tank .....	5,569.99	2,067.27
 <b>22 66 83 16-0012 Polypropylene Acid Neutralization Tank (22 66 83 16-0001)</b>		
22 66 83 16-0013 EA 5 Gallon Capacity Polypropylene Acid Neutralization Tank .....	1,036.32	287.12
22 66 83 16-0014 EA 15 Gallon Capacity Polypropylene Acid Neutralization Tank .....	1,763.51	398.14
22 66 83 16-0015 EA 30 Gallon Capacity Polypropylene Acid Neutralization Tank .....	2,809.84	574.24
22 66 83 16-0016 EA 55 Gallon Capacity Polypropylene Acid Neutralization Tank .....	3,704.80	765.66
22 66 83 16-0017 EA 100 Gallon Capacity Polypropylene Acid Neutralization Tank .....	4,676.71	918.79
22 66 83 16-0018 EA 150 Gallon Capacity Polypropylene Acid Neutralization Tank .....	5,313.81	1,148.49
22 66 83 16-0019 EA 200 Gallon Capacity Polypropylene Acid Neutralization Tank .....	5,832.81	1,435.61
22 66 83 16-0020 EA 275 Gallon Capacity Polypropylene Acid Neutralization Tank .....	8,457.45	1,722.72
22 66 83 16-0021 EA 350 Gallon Capacity Polypropylene Acid Neutralization Tank .....	9,191.39	2,067.27
 <b>22 66 83 16-0022 Chemical Dilution Trap (22 66 83 16)</b>		
22 66 83 16-0023 EA 1 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap .....	561.51	95.71
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0024 EA 1-1/2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap .....	578.35	95.71
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0025 EA 2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap .....	595.20	95.71
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0026 EA 5 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap .....	655.78	114.85
Note: 1-1/2" top inlet and side outlet with anti siphon.		

**END OF SECTION 22**

**22 Plumbing**

22 60 Gas and Vacuum Systems for Laboratory and Healthcare Facilities

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities

MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**THIS PAGE INTENTIONALLY LEFT BLANK**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 23 Heating, Ventilating, and Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

### 23 01 Operation and Maintenance of HVAC Systems <sup>(23)</sup>

#### 23 01 10 Operation and Maintenance of Facility Fuel Systems <sup>(23 01)</sup>

##### 23 01 10 91 Facility Fuel Systems Restoration <sup>(23 01 10)</sup>

##### 23 01 10 91-0001 Purge Gas Systems <sup>(23 01 10 91)</sup>

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

23 01 10 91-0002	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	707.14
23 01 10 91-0003	EA	>100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,009.89
23 01 10 91-0004	EA	>250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,059.97
23 01 10 91-0005	EA	>500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,168.44
23 01 10 91-0006	EA	>1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	2,115.97
23 01 10 91-0007	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	949.78
23 01 10 91-0008	EA	>100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,363.65
23 01 10 91-0009	EA	>250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,440.91
23 01 10 91-0010	EA	>500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,607.52
23 01 10 91-0011	EA	>1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	2,920.48
23 01 10 91-0012	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,119.97
23 01 10 91-0013	EA	>100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,641.85
23 01 10 91-0014	EA	>250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems.....	3,789.07
23 01 10 91-0015	EA	>500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	5,904.51
23 01 10 91-0016	EA	>1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	11,088.63

#### 23 01 20 Operation and Maintenance of HVAC Piping and Pumps <sup>(23 01)</sup>

##### 23 01 20 91 HVAC Piping and Pumps Restoration <sup>(23 01 20)</sup>

##### 23 01 20 91-0001 Lock Out/Tag Out System <sup>(23 01 20 91)</sup>

23 01 20 91-0002	EA	Up To 1", Lock Out/Tag Out Valve.....	38.28
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0003	EA	>1" To 3", Lock Out/Tag Out Valve.....	45.94
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0004	EA	>3" To 6", Lock Out/Tag Out Valve.....	53.60
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0005	EA	>6" To 10", Lock Out/Tag Out Valve.....	61.25
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0006	EA	>10" To 14", Lock Out/Tag Out Valve.....	76.57
		Note: Excludes tag or padlock See CSI section 23 01 20 91-0007 for padlock, 23 01 20 91-0008 for tag(s).	
23 01 20 91-0007	EA	Lock Out Padlock.....	15.31
23 01 20 91-0008	EA	Lock Out Tags.....	5.73

##### 23 01 20 91-0009 Freeze Pipe Using CO2 Kit <sup>(23 01 20 91)</sup>

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0010	EA	Up To 2" Freeze Pipe Using CO2 Kit.....	408.26
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##### 23 01 20 91-0011 Pipe Freezing <sup>(23 01 20 91)</sup>

Note: For use on any water piping systems. Excludes excavation, cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0012	EA	Up To 1" Pipe Freezing, First Location.....	805.75
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0013	EA	Up To 1" Pipe Freezing, Each Additional Location After First.....	444.84
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0014	EA	>1" To 1-1/2" Pipe Freezing, First Location.....	972.69
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0015	EA	>1" To 1-1/2" Pipe Freezing, Each Additional Location After First.....	513.60
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0016	EA	>1-1/2" To 2" Pipe Freezing, First Location.....	1,326.85
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0017	EA	>1-1/2" To 2" Pipe Freezing, Each Additional Location After First.....	582.59
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0018	EA	>2" To 3" Pipe Freezing, First Location.....	1,512.49
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0019	EA	>2" To 3" Pipe Freezing, Each Additional Location After First.....	683.15
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0020	EA	>3" To 4" Pipe Freezing, First Location.....	2,195.45
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0021	EA	>3" To 4" Pipe Freezing, Each Additional Location After First.....	789.21
		Note: Includes freezing on each side of valve or fitting.	
23 01 20 91-0022	EA	>4" To 6" Pipe Freezing, First Location.....	4,453.89
		Note: Includes freezing on each side of valve or fitting.	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0023 EA >4" To 6" Pipe Freezing, Each Additional Location After First ..... Note: Includes freezing on each side of valve or fitting.	1,026.18	
23 01 20 91-0024 EA >6" To 8" Pipe Freezing, First Location ..... Note: Includes freezing on each side of valve or fitting.	5,925.37	
23 01 20 91-0025 EA >6" To 8" Pipe Freezing, Each Additional Location After First ..... Note: Includes freezing on each side of valve or fitting.	1,498.15	
23 01 20 91-0026 EA >8" To 10" Pipe Freezing, First Location ..... Note: Includes freezing on each side of valve or fitting.	8,160.11	
23 01 20 91-0027 EA >8" To 10" Pipe Freezing, Each Additional Location After First ..... Note: Includes freezing on each side of valve or fitting.	2,031.19	
23 01 20 91-0028 EA >10" To 12" Pipe Freezing, First Location..... Note: Includes freezing on each side of valve or fitting.	10,492.60	
23 01 20 91-0029 EA >10" To 12" Pipe Freezing, Each Additional Location After First ..... Note: Includes freezing on each side of valve or fitting.	2,624.58	
<b>23 01 20 91-0030 Water/Chlorine Pipe Disinfection/Flush/Testing (23 01 20 91)</b> Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution".		
23 01 20 91-0031 LF Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 2000, Deduct</i> <i>For &gt;2000, Deduct</i>	2.53 -0.19 -0.48 -0.69	
23 01 20 91-0032 LF >1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 2000, Deduct</i> <i>For &gt;2000, Deduct</i>	3.48 -0.26 -0.64 -0.93	
23 01 20 91-0033 LF >2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 2000, Deduct</i> <i>For &gt;2000, Deduct</i>	5.36 -0.38 -0.96 -1.39	
23 01 20 91-0034 LF 4", Water/Chlorine Pipe Disinfection/Flush/Testing ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 2000, Deduct</i> <i>For &gt;2000, Deduct</i>	7.39 -0.51 -1.28 -1.85	
23 01 20 91-0035 LF 6", Water/Chlorine Pipe Disinfection/Flush/Testing ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 2000, Deduct</i> <i>For &gt;2000, Deduct</i>	9.11 -0.61 -1.53 -2.22	
23 01 20 91-0036 LF 8", Water/Chlorine Pipe Disinfection/Flush/Testing ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 2000, Deduct</i> <i>For &gt;2000, Deduct</i>	11.52 -0.77 -1.91 -2.78	
23 01 20 91-0037 LF 10", Water/Chlorine Pipe Disinfection/Flush/Testing ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 2000, Deduct</i> <i>For &gt;2000, Deduct</i>	15.16 -1.02 -2.55 -3.70	
23 01 20 91-0038 LF 12", Water/Chlorine Pipe Disinfection/Flush/Testing ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 2000, Deduct</i> <i>For &gt;2000, Deduct</i>	18.20 -1.22 -3.06 -4.44	
<b>23 01 20 91-0039 Shut Down Existing Piping System (23 01 20 91)</b>		
23 01 20 91-0040 EA Shut Down Existing Interior Piping System ..... Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.	311.73	
<b>23 01 20 91-0041 Purge Liquid Systems (23 01 20 91)</b> Note: Includes collection of liquid, refilling with liquid and bleeding of air from system.		
23 01 20 91-0042 EA Up To 50', Up To 3/4" Diameter Pipe, Purge Liquid System .....	242.02	
23 01 20 91-0043 EA >50' To 100', Up To 3/4" Diameter Pipe, Purge Liquid System .....	302.53	
23 01 20 91-0044 EA >100 To 250', Up To 3/4" Diameter Pipe, Purge Liquid System .....	431.81	
23 01 20 91-0045 EA >250 To 500', Up To 3/4" Diameter Pipe, Purge Liquid System .....	517.44	
23 01 20 91-0046 EA >500 To 1,000', Up To 3/4" Diameter Pipe, Purge Liquid System .....	646.80	
23 01 20 91-0047 EA >1,000 To 2,000', Up To 3/4" Diameter Pipe, Purge Liquid System .....	840.84	
23 01 20 91-0048 LF >2,000', Up To 3/4" Diameter Pipe, Purge Liquid System .....	0.42	
23 01 20 91-0049 EA Up To 100', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System .....	504.00	
23 01 20 91-0050 EA >100 To 250', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System .....	719.82	
23 01 20 91-0051 EA >250 To 500', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System .....	862.49	
23 01 20 91-0052 EA >500 To 1,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System .....	1,078.11	
23 01 20 91-0053 EA >1,000 To 2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System .....	1,401.55	
23 01 20 91-0054 LF >2,000', >3/4" To 1-1/2" Diameter Pipe, Purge Liquid System .....	0.70	
23 01 20 91-0055 EA Up To 100', >1-1/2" To 3" Diameter Pipe, Purge Liquid System .....	705.62	
23 01 20 91-0056 EA >100 To 250', >1-1/2" To 3" Diameter Pipe, Purge Liquid System .....	1,007.76	
23 01 20 91-0057 EA >250 To 500', >1-1/2" To 3" Diameter Pipe, Purge Liquid System .....	1,207.49	
23 01 20 91-0058 EA >500 To 1,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System .....	1,509.36	
23 01 20 91-0059 EA >1,000 To 2,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System .....	1,962.17	
23 01 20 91-0060 LF >2,000', >1-1/2" To 3" Diameter Pipe, Purge Liquid System .....	0.99	
23 01 20 91-0061 EA Up To 100', >3" To 6" Diameter Pipe, Purge Liquid System .....	970.21	
23 01 20 91-0062 EA >100 To 250', >3" To 6" Diameter Pipe, Purge Liquid System .....	1,385.67	
23 01 20 91-0063 EA >250 To 500', >3" To 6" Diameter Pipe, Purge Liquid System .....	1,470.94	
23 01 20 91-0064 EA >500 To 1,000', >3" To 6" Diameter Pipe, Purge Liquid System .....	1,838.68	
23 01 20 91-0065 EA >1,000 To 2,000', >3" To 6" Diameter Pipe, Purge Liquid System .....	2,390.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0066 LF >2,000', >3" To 6" Diameter Pipe, Purge Liquid System.....	1.20	
23 01 20 91-0067 EA Up To 100', >6" To 10" Diameter Pipe, Purge Liquid System .....	1,309.79	
23 01 20 91-0068 EA >100 To 250', >6" To 10" Diameter Pipe, Purge Liquid System .....	1,870.64	
23 01 20 91-0069 EA >250 To 500', >6" To 10" Diameter Pipe, Purge Liquid System .....	1,985.77	
23 01 20 91-0070 EA >500 To 1,000', >6" To 10" Diameter Pipe, Purge Liquid System .....	2,482.21	
23 01 20 91-0071 EA >1,000 To 2,000', >6" To 10" Diameter Pipe, Purge Liquid System .....	3,226.87	
23 01 20 91-0072 LF >2,000', >6" To 10" Diameter Pipe, Purge Liquid System.....	1.61	
<b>23 01 20 91-0073 Special Cleaning Of Piping Systems (23 01 20 91)</b>		
<b>23 01 20 91-0074 Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing (23 01 20 91-0073)</b>		
23 01 20 91-0075 LF Up To 1", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing.....	3.18	
For >250 To 500, Deduct	-0.22	
For >500 To 2000, Deduct	-0.55	
For >2000, Deduct	-0.79	
23 01 20 91-0076 LF >1" To 2", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....	5.30	
For >250 To 500, Deduct	-0.35	
For >500 To 2000, Deduct	-0.88	
For >2000, Deduct	-1.28	
23 01 20 91-0077 LF >2" To 3", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....	7.43	
For >250 To 500, Deduct	-0.49	
For >500 To 2000, Deduct	-1.22	
For >2000, Deduct	-1.76	
23 01 20 91-0078 LF >3" To 4", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....	9.61	
For >250 To 500, Deduct	-0.62	
For >500 To 2000, Deduct	-1.56	
For >2000, Deduct	-2.26	
23 01 20 91-0079 LF >4" To 6", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....	13.34	
For >250 To 500, Deduct	-0.88	
For >500 To 2000, Deduct	-2.19	
For >2000, Deduct	-3.17	
<b>23 01 20 91-0080 Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing (23 01 20 91-0073)</b>		
23 01 20 91-0081 LF Up To 1", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing.....	3.42	
For >250 To 500, Deduct	-0.22	
For >500 To 2000, Deduct	-0.55	
For >2000, Deduct	-0.79	
23 01 20 91-0082 LF >1" To 2", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....	5.60	
For >250 To 500, Deduct	-0.35	
For >500 To 2000, Deduct	-0.88	
For >2000, Deduct	-1.28	
23 01 20 91-0083 LF >2" To 3", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....	7.85	
For >250 To 500, Deduct	-0.49	
For >500 To 2000, Deduct	-1.22	
For >2000, Deduct	-1.76	
23 01 20 91-0084 LF >3" To 4", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....	10.24	
For >250 To 500, Deduct	-0.62	
For >500 To 2000, Deduct	-1.56	
For >2000, Deduct	-2.26	
23 01 20 91-0085 LF >4" To 6", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....	14.18	
For >250 To 500, Deduct	-0.88	
For >500 To 2000, Deduct	-2.19	
For >2000, Deduct	-3.17	
<b>23 01 20 91-0086 Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing (23 01 20 91-0073)</b>		
23 01 20 91-0087 LF Up To 1", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing.....	3.49	
For >250 To 500, Deduct	-0.22	
For >500 To 2000, Deduct	-0.55	
For >2000, Deduct	-0.79	
23 01 20 91-0088 LF >1" To 2", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....	5.72	
For >250 To 500, Deduct	-0.35	
For >500 To 2000, Deduct	-0.88	
For >2000, Deduct	-1.28	
23 01 20 91-0089 LF >2" To 3", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....	8.03	
For >250 To 500, Deduct	-0.49	
For >500 To 2000, Deduct	-1.22	
For >2000, Deduct	-1.76	
23 01 20 91-0090 LF >3" To 4", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....	10.48	
For >250 To 500, Deduct	-0.62	
For >500 To 2000, Deduct	-1.56	
For >2000, Deduct	-2.26	
23 01 20 91-0091 LF >4" To 6", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....	14.50	
For >250 To 500, Deduct	-0.88	
For >500 To 2000, Deduct	-2.19	
For >2000, Deduct	-3.17	
<b>23 01 20 91-0092 Add-A-Valve Emergency Shut Off Device (23 01 20 91)</b>		
23 01 20 91-0093 EA 1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD) .....	405.42	
23 01 20 91-0094 EA 3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD) .....	509.78	
23 01 20 91-0095 EA 1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD) .....	703.34	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

23 01 20 91-0096	EA	1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD)	1,069.77
23 01 20 91-0097	EA	1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD)	1,318.75
23 01 20 91-0098	EA	2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD)	1,983.17

**23 01 30 Operation and Maintenance of HVAC Air Distribution (23 01)****23 01 30 51 HVAC Air-Distribution System Cleaning (23 01 30)****23 01 30 51-0001 Cleaning Of Ductwork And HVAC Equipment (23 01 30 51)**

23 01 30 51-0002	LF	Up To 2 SF Cross Section, Clean Supply/Return Ductwork	4.75
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	1.19
23 01 30 51-0003	LF	>2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork	5.95
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	1.49
23 01 30 51-0004	LF	>4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork	7.97
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	1.99
23 01 30 51-0005	LF	>8 SF Cross Section, Clean Supply/Return Ductwork	11.29
		Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.	
		<i>For Exhaust Ductwork, Add</i>	2.82
23 01 30 51-0006	SF	Clean Duct Dampers	16.00
23 01 30 51-0007	SF	Clean Duct Fire Dampers	32.00
23 01 30 51-0008	SF	Clean Louver	12.80
23 01 30 51-0009	EA	Clean Turning Vane Set	38.40
23 01 30 51-0010	EA	Clean Grille/Diffuser/Register	38.40
		Note: Includes removal and reinstallation.	
23 01 30 51-0011	LF	Clean Linear Diffuser	9.60
		Note: Includes removal and reinstallation.	
23 01 30 51-0012	EA	Cut Access For Cleaning Duct And Install Duct Insulated Access Doors	127.29
		<i>For Stainless Steel, Add</i>	82.00
23 01 30 51-0013	EA	Clean Variable Air Volume (VAV) Unit	115.20
23 01 30 51-0014	EA	Clean Fan Powered Induction Unit (PIU) Unit	153.58
23 01 30 51-0015	EA	Clean Fan Coil Unit (FCU)	153.58
23 01 30 51-0016	EA	Clean Packaged Terminal Air Conditioning Unit	153.58
23 01 30 51-0017	EA	Clean Supply Or Return Fan	307.18
23 01 30 51-0018	EA	Clean Exhaust Fan	268.78
23 01 30 51-0019	EA	Clean Duct Coil	230.38
23 01 30 51-0020	SF	Clean Air Handling Unit Interior Housing With High Efficiency Particulate Air (HEPA) Vacuum	7.68
		Note: Excluding fan and coils.	
23 01 30 51-0021	EA	Clean Air Handling Unit Fan	307.18
23 01 30 51-0022	EA	Clean Air Handling Unit Coil	460.76
23 01 30 51-0023	SF	Clean Equipment Surfaces, Rust Reform And Prime	3.99
23 01 30 51-0024	SF	Clean Interior Equipment Surfaces, Rust Reform And Prime	4.75
23 01 30 51-0025	SF	High Efficiency Particulate Air (HEPA) Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms	0.66
23 01 30 51-0026	EA	Cleaning Of Ductwork Minimum Set-up Charge	1,033.12
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
23 01 30 51-0027	SF	Apply Anti-microbial Agent To Ductwork And Surfaces After Cleaning	0.67

**23 01 30 61 HVAC Air-Distribution Duct Repair (23 01 30)****23 01 30 61-0001 Repair And Seal Ductwork (23 01 30 61)**

Note: Includes removal of existing insulation, repair/seal ductwork with Duct Sealer and reinstallation of insulation. Excludes new ductwork.

23 01 30 61-0002	SF	Repair And Sealing Of Ductwork	2.68
		Note: Clean, apply sealant and tape	

**23 01 30 61-0003 Rework Sheet Metal Ductwork (23 01 30 61)**

Note: Includes removal of existing ductwork and reinstallation of ductwork. Excludes new ductwork.

23 01 30 61-0004	LF	Up To 1 SF Cross Section, Rework Existing Ductwork	37.57
23 01 30 61-0005	LF	>1 To 2 SF Cross Section, Rework Existing Ductwork	73.25
23 01 30 61-0006	LF	>2 To 4 SF Cross Section, Rework Existing Ductwork	96.80
23 01 30 61-0007	LF	>4 To 6 SF Cross Section, Rework Existing Ductwork	121.22
23 01 30 61-0008	LF	>6 To 8 SF Cross Section, Rework Existing Ductwork	169.05
23 01 30 61-0009	LF	>8 To 10 SF Cross Section, Rework Existing Ductwork	197.23
23 01 30 61-0010	LF	>10 To 12 SF Cross Section, Rework Existing Ductwork	225.40
23 01 30 61-0011	LF	>12 To 14 SF Cross Section, Rework Existing Ductwork	253.58

**23 01 50 Operation and Maintenance of Central Heating Equipment (23 01)****23 01 50 61 Central Heating Equipment Repair (23 01 50)****23 01 50 61-0001 Boiler Repairs (23 01 50 61)****23 01 50 61-0002 Setup And Maintenance (23 01 50 61-0001)**





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 50 61-0003 EA Set-up Charge For Boiler Fire Side Maintenance ..... Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.	3,116.11	
23 01 50 61-0004 EA Close-up Charge For Boiler Fire Side Maintenance ..... Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.	3,351.48	
<i>For Burner Seals, Add</i>	711.61	
<i>Note: Used when burner must be removed from door for maintenance.</i>		
23 01 50 61-0005 EA Setup Charge For Boiler Water Side Maintenance ..... Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.	4,154.82	
23 01 50 61-0006 EA Up To 100 HP, Hydrostatic Test - Boiler Maintenance ..... Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.	2,077.41	
23 01 50 61-0007 EA >100 HP, Hydrostatic Test - Boiler Maintenance ..... Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.	4,154.82	
23 01 50 61-0008 EA Removal And Replacement Of Handhole .....	129.84	
23 01 50 61-0009 EA Removal And Replacement Of Manhole.....	389.52	
23 01 50 61-0010 SF Sheet Metal Jacket Patch .....	14.60	
 <b>23 01 50 61-0011 Boiler Tube Replacement</b> <small>(23 01 50 61-0001)</small>		
23 01 50 61-0012 EA Removal Of Up To 2" Boiler Tube .....	311.61	
23 01 50 61-0013 EA Removal Of >2" To 3" Boiler Tube.....	389.53	
23 01 50 61-0014 EA Removal Of >3" To 4" Boiler Tube .....	545.31	
23 01 50 61-0015 LF Place 1-1/2" Boiler Tube Into Position For Termination ..... Note: Includes black steel tube, fasteners and accessories.	19.22	
23 01 50 61-0016 LF Place 2" Boiler Tube Into Position For Termination ..... Note: Includes black steel tube, fasteners and accessories.	22.61	
23 01 50 61-0017 LF Place 2-1/2" Boiler Tube Into Position For Termination ..... Note: Includes black steel tube, fasteners and accessories.	26.05	
23 01 50 61-0018 LF Place 3" Boiler Tube Into Position For Termination ..... Note: Includes black steel tube, fasteners and accessories.	39.02	
23 01 50 61-0019 LF Place 3-1/2" Boiler Tube Into Position For Termination ..... Note: Includes black steel tube, fasteners and accessories.	46.19	
23 01 50 61-0020 LF Place 4" Boiler Tube Into Position For Termination ..... Note: Includes black steel tube, fasteners and accessories.	60.26	
23 01 50 61-0021 EA 1-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	38.95	
23 01 50 61-0022 EA 2" Rolled Boiler Tube Termination (2 Per New Tube).....	58.43	
23 01 50 61-0023 EA 2-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	77.90	
23 01 50 61-0024 EA 3" Rolled Boiler Tube Termination (2 Per New Tube).....	97.38	
23 01 50 61-0025 EA 3-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	116.86	
23 01 50 61-0026 EA 4" Rolled Boiler Tube Termination (2 Per New Tube).....	136.33	
23 01 50 61-0027 EA 1-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	116.86	
23 01 50 61-0028 EA 2" Welded Boiler Tube Termination (2 Per New Tube).....	155.81	
23 01 50 61-0029 EA 2-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	194.76	
23 01 50 61-0030 EA 3" Welded Boiler Tube Termination (2 Per New Tube).....	233.71	
23 01 50 61-0031 EA 3-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	272.66	
23 01 50 61-0032 EA 4" Welded Boiler Tube Termination (2 Per New Tube).....	311.61	
23 01 50 61-0033 EA Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced.....	411.07	
 <b>23 01 50 61-0034 Cast Iron Boiler Section Replacement</b> <small>(23 01 50 61-0001)</small>		
23 01 50 61-0035 EA Removal And Replacement Of Front Section Of Weil McLain Model 80 Cast Iron Boiler.....	3,184.29	
23 01 50 61-0036 EA Removal And Replacement Of Rear Section Of Weil McLain Model 80 Cast Iron Boiler .....	2,115.67	
23 01 50 61-0037 EA Removal And Replacement Of Inside Section Of Weil McLain Model 80 Cast Iron Boiler .....	2,807.35	
23 01 50 61-0038 EA Removal And Replacement Of Front Section Of Weil McLain Model 88 Cast Iron Boiler.....	5,724.75	
23 01 50 61-0039 EA Removal And Replacement Of Rear Section Of Weil McLain Model 88 Cast Iron Boiler .....	4,078.45	
23 01 50 61-0040 EA Removal And Replacement Of Inside Section Of Weil McLain Model 88 Cast Iron Boiler .....	5,003.78	
23 01 50 61-0041 EA Removal And Replacement Of Front Section Of Weil McLain Model 94 Cast Iron Boiler.....	9,111.24	
23 01 50 61-0042 EA Removal And Replacement Of Rear Section Of Weil McLain Model 94 Cast Iron Boiler .....	6,866.15	
23 01 50 61-0043 EA Removal And Replacement Of Inside Section Of Weil McLain Model 94 Cast Iron Boiler .....	7,741.40	
 <b>23 01 50 61-0044 Cast Iron Grate Replacement</b> <small>(23 01 50 61-0001)</small>		
23 01 50 61-0045 SF Removal And Replacement Of Cast Iron Boiler Grates, Prepared From Casting Mold ..... Note: Includes support, linkages and removal of existing.	157.31	
23 01 50 61-0046 EA Prepare Cast Iron Boiler Grate Mold..... Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.	2,153.31	
 <b>23 01 50 61-0047 Replacement Or Conversion Of Boiler Burners</b> <small>(23 01 50 61-0001)</small>		
<i>Note: Includes mounting plate, mechanical and electrical labor for installation of burners.</i>		
23 01 50 61-0048 EA 700 MBH Max Input Burner With 2" Boiler Connection, Screwed .....	11,196.02	1,502.98
23 01 50 61-0049 EA 2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed.....	16,059.76	1,860.80
23 01 50 61-0050 EA 2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed.....	18,986.94	2,254.32
23 01 50 61-0051 EA 3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged.....	22,324.24	2,425.59
 <b>23 01 50 61-0052 Boiler And Chiller Water Treatment</b> <small>(23 01 50 61)</small>		
<i>Note: 3 LB chemical per 50 gallon system water.</i>		
23 01 50 61-0053 LB Boil Out Boiler And System With Caustic Soda ..... Note: Includes disposal after treatment.	1.68	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 01 Operation and Maintenance of HVAC Systems****23 01 50 Operation and Maintenance of Central Heating Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

23 01 50 61-0054	LB	Boil Out Boiler And System With Trisodium Phosphate.....	2.52
		Note: Includes disposal after treatment.	
23 01 50 61-0055	GAL	Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required.....	157.57

**23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)****23 01 60 61 Central Cooling Equipment Repair (23 01 60)****23 01 60 61-0001 Cooling Tower Repairs (23 01 60 61)**

23 01 60 61-0002	EA	Replace 6' Diameter 4 Blade, Cooling Tower Fan Blade.....	3,548.79
23 01 60 61-0003	EA	Replace 6' Diameter 5 Blade, Cooling Tower Fan Blade.....	4,174.72
23 01 60 61-0004	EA	Replace 6' Diameter 6 Blade, Cooling Tower Fan Blade.....	4,796.07
23 01 60 61-0005	EA	Replace 6' Diameter 7 Blade, Cooling Tower Fan Blade.....	5,657.31
23 01 60 61-0006	EA	Replace 6' Diameter 8 Blade, Cooling Tower Fan Blade.....	6,230.69
23 01 60 61-0007	EA	Replace 8' Diameter 4 Blade, Cooling Tower Fan Blade.....	3,925.43
23 01 60 61-0008	EA	Replace 8' Diameter 5 Blade, Cooling Tower Fan Blade.....	4,364.02
23 01 60 61-0009	EA	Replace 8' Diameter 6 Blade, Cooling Tower Fan Blade.....	5,117.87
23 01 60 61-0010	EA	Replace 8' Diameter 7 Blade, Cooling Tower Fan Blade.....	5,826.04
23 01 60 61-0011	EA	Replace 8' Diameter 8 Blade, Cooling Tower Fan Blade.....	6,413.15
23 01 60 61-0012	EA	Replace Individual Cooling Tower Fan Blade For 6' Diameter Fan.....	972.85
23 01 60 61-0013	EA	Replace Individual Cooling Tower Fan Blade For 8' Diameter Fan.....	1,012.08
23 01 60 61-0014	EA	Replace Individual Cooling Tower Fan Blade For 10' Diameter Fan.....	1,083.31
23 01 60 61-0015	EA	Replace Individual Cooling Tower Fan Blade For 12' Diameter Fan.....	1,261.90
23 01 60 61-0016	EA	Replace Individual Cooling Tower Fan Blade For 14' Diameter Fan.....	1,561.55
23 01 60 61-0017	EA	Replace Individual Cooling Tower Fan Blade For 16' Diameter Fan.....	2,105.63
23 01 60 61-0018	EA	Replace Individual Cooling Tower Fan Blade For 18' Diameter Fan.....	2,215.68
23 01 60 61-0019	EA	Replace Individual Cooling Tower Fan Blade For 20' Diameter Fan.....	2,380.77
23 01 60 61-0020	EA	Replace Counterflow Nozzle (1/2" - 2" NPT Thread).....	49.13
23 01 60 61-0021	EA	Replace 6' Polyvinyl Chloride (PVC) Splash Fill.....	31.05

**23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)****23 01 60 71-0001 Refrigerant Recovery, Reclaim And Recycling (23 01 60 71)**

23 01 60 71-0002	LB	Recovery Of Refrigerant.....	16.19
23 01 60 71-0003	LB	Recovery And Recharging Of Refrigerant.....	30.38
		Note: Includes cleaning refrigerant gas prior to recharging.	
23 01 60 71-0004	LB	Recharging Of Refrigerant.....	13.64
		Note: Excludes refrigerant filling at time of installation of HVAC or Condenser units.	

**23 05 Common Work Results for HVAC (23)****23 05 13 Common Motor Requirements for HVAC Equipment (23 05)**

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.

**23 05 13 00-0001 Premium Efficient, Motors (23 05 13)**

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation. See CSI section 23 05 13 00-0216 for installation.

**23 05 13 00-0002 Premium Efficient, Open Drip Proof Motors (23 05 13 00-0001)**

Note: NEMA premium efficiency, open drip proof, three phase AC motors.

**23 05 13 00-0003 Steel Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)**

23 05 13 00-0004	EA	1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	696.02
23 05 13 00-0005	EA	1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	788.12
23 05 13 00-0006	EA	1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	924.00
23 05 13 00-0007	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	776.04
23 05 13 00-0008	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	824.35
23 05 13 00-0009	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,081.02
23 05 13 00-0010	EA	2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	911.92
23 05 13 00-0011	EA	2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	883.23
23 05 13 00-0012	EA	2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,105.17
23 05 13 00-0013	EA	3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	924.00
23 05 13 00-0014	EA	3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	952.68
23 05 13 00-0015	EA	3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,407.13
23 05 13 00-0016	EA	5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,008.55
23 05 13 00-0017	EA	5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,043.27
23 05 13 00-0018	EA	5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,843.47
23 05 13 00-0019	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,600.39
23 05 13 00-0020	EA	7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,533.96
23 05 13 00-0021	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,210.35
23 05 13 00-0022	EA	10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,829.88
23 05 13 00-0023	EA	10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,857.05
23 05 13 00-0024	EA	10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,876.17
23 05 13 00-0025	EA	15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,599.88
23 05 13 00-0026	EA	15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,630.07
23 05 13 00-0027	EA	15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,878.68
23 05 13 00-0028	EA	20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,054.33
23 05 13 00-0029	EA	20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,301.93
23 05 13 00-0030	EA	20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	4,721.14



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows include various motor specifications like '23 05 13 00-0031 EA 25 HP, 3,600 RPM, 284TS NEMA Steel Frame...' and '23 05 13 00-0050 Cast Iron Frame, Premium Efficient, Open Drip Proof Motors'.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 13 Common Motor Requirements for HVAC Equipment**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0104	EA		15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	4,934.03	
23 05 13 00-0105	EA		20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	3,516.32	
23 05 13 00-0106	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	3,555.58	
23 05 13 00-0107	EA		20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	6,569.14	
23 05 13 00-0108	EA		25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	4,588.28	
23 05 13 00-0109	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	4,650.18	
23 05 13 00-0110	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	7,432.75	
23 05 13 00-0111	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	5,451.89	
23 05 13 00-0112	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	5,516.81	
23 05 13 00-0113	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	8,586.23	
23 05 13 00-0114	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	7,473.51	
23 05 13 00-0115	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	7,213.82	
23 05 13 00-0116	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	10,699.95	
23 05 13 00-0117	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	8,175.57	
23 05 13 00-0118	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	7,884.18	
23 05 13 00-0119	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	12,929.93	
23 05 13 00-0120	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	11,485.05	
23 05 13 00-0121	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	11,344.64	
23 05 13 00-0122	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	15,694.37	
23 05 13 00-0123	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	13,361.73	
23 05 13 00-0124	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	13,265.10	
23 05 13 00-0125	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	18,276.13	
23 05 13 00-0126	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	16,473.43	
23 05 13 00-0127	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	20,394.38	
23 05 13 00-0128	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	23,459.27	
23 05 13 00-0129	EA		200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	29,483.37	

**23 05 13 00-0130 Premium Efficient, Severe Duty Motors (23 05 13 00-0001)**

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

23 05 13 00-0131	EA		1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,206.33	
23 05 13 00-0132	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,325.60	
23 05 13 00-0133	EA		1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,464.51	
23 05 13 00-0134	EA		1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,057.86	
23 05 13 00-0135	EA		1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,372.41	
23 05 13 00-0136	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,351.27	
23 05 13 00-0137	EA		1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,713.62	
23 05 13 00-0138	EA		1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,560.62	
23 05 13 00-0139	EA		2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,435.82	
23 05 13 00-0140	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,410.15	
23 05 13 00-0141	EA		2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,736.27	
23 05 13 00-0142	EA		2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,229.46	
23 05 13 00-0143	EA		3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,698.52	
23 05 13 00-0144	EA		3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,784.58	
23 05 13 00-0145	EA		3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,506.27	
23 05 13 00-0146	EA		3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,502.74	
23 05 13 00-0147	EA		5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,089.56	
23 05 13 00-0148	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,816.29	
23 05 13 00-0149	EA		5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,539.48	
23 05 13 00-0150	EA		5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	5,575.69	
23 05 13 00-0151	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,726.70	
23 05 13 00-0152	EA		7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,287.35	
23 05 13 00-0153	EA		7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,634.09	
23 05 13 00-0154	EA		7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	6,375.89	
23 05 13 00-0155	EA		10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,903.35	
23 05 13 00-0156	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,738.78	
23 05 13 00-0157	EA		10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	4,721.14	
23 05 13 00-0158	EA		10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	7,437.27	
23 05 13 00-0159	EA		15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,714.11	
23 05 13 00-0160	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,489.15	
23 05 13 00-0161	EA		15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	5,412.63	
23 05 13 00-0162	EA		15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	9,928.44	
23 05 13 00-0163	EA		20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	4,333.13	
23 05 13 00-0164	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,742.79	
23 05 13 00-0165	EA		20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	7,354.24	
23 05 13 00-0166	EA		20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	11,318.97	
23 05 13 00-0167	EA		25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	5,207.30	
23 05 13 00-0168	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	4,897.79	
23 05 13 00-0169	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	7,684.88	
23 05 13 00-0170	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	6,348.71	
23 05 13 00-0171	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	5,815.75	
23 05 13 00-0172	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	9,907.31	
23 05 13 00-0173	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	8,722.11	
23 05 13 00-0174	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	7,609.39	
23 05 13 00-0175	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	12,348.65	
23 05 13 00-0176	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	9,140.33	
23 05 13 00-0177	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	8,931.98	
23 05 13 00-0178	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	13,153.38	
23 05 13 00-0179	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	13,265.10	
23 05 13 00-0180	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	11,971.20	
23 05 13 00-0181	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	17,966.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0182 EA 75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	14,829.26	
23 05 13 00-0183 EA 75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	13,988.30	
23 05 13 00-0184 EA 75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	21,866.43	
23 05 13 00-0185 EA 100 HP, 3,600 RPM, 405TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	18,639.99	
23 05 13 00-0186 EA 100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	18,362.19	
23 05 13 00-0187 EA 100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	24,051.11	
23 05 13 00-0188 EA 125 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	21,902.67	
23 05 13 00-0189 EA 125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	21,707.90	
23 05 13 00-0190 EA 125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	27,170.36	
23 05 13 00-0191 EA 150 HP, 3,600 RPM, 445TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	25,677.17	
23 05 13 00-0192 EA 150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	25,431.07	
23 05 13 00-0193 EA 150 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	30,633.84	
23 05 13 00-0194 EA 200 HP, 3,600 RPM, 447TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	30,405.86	
23 05 13 00-0195 EA 200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	30,593.08	
23 05 13 00-0196 EA 200 HP, 1,200 RPM, 449T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	40,127.46	

**23 05 13 00-0197 Premium Efficient, Explosion Proof Motors (23 05 13 00-0001)**

Note: NEMA premium efficiency, explosion proof, three phase AC motors.

23 05 13 00-0198 EA 1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	1,609.45	
23 05 13 00-0199 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	1,666.82	
23 05 13 00-0200 EA 2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	1,817.80	
23 05 13 00-0201 EA 3 HP, 1,800 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	2,246.58	
23 05 13 00-0202 EA 5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	2,491.17	
23 05 13 00-0203 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	3,433.29	
23 05 13 00-0204 EA 10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	3,504.25	
23 05 13 00-0205 EA 15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	4,743.79	
23 05 13 00-0206 EA 20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	5,408.10	
23 05 13 00-0207 EA 25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	7,105.12	
23 05 13 00-0208 EA 30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	7,974.76	
23 05 13 00-0209 EA 40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	10,428.19	
23 05 13 00-0210 EA 50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	11,744.73	
23 05 13 00-0211 EA 60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	16,429.64	
23 05 13 00-0212 EA 75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	19,287.70	
23 05 13 00-0213 EA 100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	23,495.51	
23 05 13 00-0214 EA 125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	30,709.33	
23 05 13 00-0215 EA 150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	35,039.44	

**23 05 13 00-0216 Motor Mounting (23 05 13)**

Note: Includes handling and motor installation on mounting base. Excludes mounting base.

23 05 13 00-0217 EA 1/2 HP Motor Mounting .....	241.86	123.05
23 05 13 00-0218 EA 3/4 HP Motor Mounting .....	278.67	153.82
23 05 13 00-0219 EA 1 HP Motor Mounting .....	298.10	153.82
23 05 13 00-0220 EA 1-1/2 HP Motor Mounting .....	320.46	153.82
23 05 13 00-0221 EA 2 HP Motor Mounting .....	346.44	184.58
23 05 13 00-0222 EA 3 HP Motor Mounting .....	400.58	184.58
23 05 13 00-0223 EA 5 HP Motor Mounting .....	474.76	307.65
23 05 13 00-0224 EA 7-1/2 HP Motor Mounting .....	610.40	307.65
23 05 13 00-0225 EA 10 HP Motor Mounting .....	801.16	538.38
23 05 13 00-0226 EA 15 HP Motor Mounting .....	986.04	538.38
23 05 13 00-0227 EA 20 HP Motor Mounting .....	1,165.31	769.11
23 05 13 00-0228 EA 25 HP Motor Mounting .....	1,321.50	769.11
23 05 13 00-0229 EA 30 HP Motor Mounting .....	1,602.31	769.11
23 05 13 00-0230 EA 40 HP Motor Mounting .....	1,805.42	1,153.66
23 05 13 00-0231 EA 50 HP Motor Mounting .....	2,002.88	1,153.66
23 05 13 00-0232 EA 75 HP Motor Mounting .....	2,418.58	1,692.04
23 05 13 00-0233 EA 100 HP Motor Mounting .....	2,913.28	1,692.04
23 05 13 00-0234 EA 125 HP Motor Mounting .....	3,560.68	2,307.32
23 05 13 00-0235 EA 150 HP Motor Mounting .....	4,134.98	2,307.32
23 05 13 00-0236 EA 200 HP Motor Mounting .....	4,747.58	2,768.79

**23 05 16 Expansion Fittings and Loops for HVAC Piping (23 05)**

**23 05 16 00-0001 Stainless Steel Bellows Type Expansion Joints (23 05 16)**

**23 05 16 00-0002 Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints (23 05 16 00-0001)**

Note: Includes internal sleeves and external covers.

Note: Carbon steel ends. Includes internal sleeves and external covers.

23 05 16 00-0003 EA 1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint .....	351.70	123.46
For 300 LB Rating, Add	26.16	
23 05 16 00-0004 EA 3/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint .....	392.93	139.24
For 300 LB Rating, Add	28.66	
23 05 16 00-0005 EA 1" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint .....	468.58	159.62
For 300 LB Rating, Add	37.37	
23 05 16 00-0006 EA 1-1/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint .....	535.27	178.15
For 300 LB Rating, Add	44.84	
23 05 16 00-0007 EA 1-1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint .....	582.13	191.47
For 300 LB Rating, Add	49.80	
23 05 16 00-0008 EA 2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint .....	659.67	225.33
For 300 LB Rating, Add	52.29	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 16 Expansion Fittings and Loops for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 16 00-0009 Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints</b> (23 05 16 00-0001) Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0010 EA 1-1/4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	557.46	123.41
For 300 LB Rating, Add	101.04	
23 05 16 00-0011 EA 1-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	616.16	148.09
For 300 LB Rating, Add	107.65	
23 05 16 00-0012 EA 2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	665.73	188.01
For 300 LB Rating, Add	107.67	
23 05 16 00-0013 EA 2-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	719.01	204.51
For 300 LB Rating, Add	115.64	
23 05 16 00-0014 EA 3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	799.94	239.77
For 300 LB Rating, Add	124.96	
23 05 16 00-0015 EA 4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,042.88	401.96
For 300 LB Rating, Add	134.79	
23 05 16 00-0016 EA 5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,352.67	439.69
For 300 LB Rating, Add	200.98	
23 05 16 00-0017 EA 6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,301.36	488.55
For 300 LB Rating, Add	172.12	
23 05 16 00-0018 EA 8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,667.87	624.26
For 300 LB Rating, Add	223.10	
23 05 16 00-0019 EA 10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,104.32	759.97
For 300 LB Rating, Add	288.59	
23 05 16 00-0020 EA 12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,718.62	575.68
For 300 LB Rating, Add	391.44	
23 05 16 00-0021 EA 14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,408.96	1,085.67
For 300 LB Rating, Add	512.97	
23 05 16 00-0022 EA 16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	4,282.07	1,194.23
For 300 LB Rating, Add	697.32	
<b>23 05 16 00-0023 Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints</b> (23 05 16 00-0001) Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0024 EA 1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	663.01	169.25
For 300 LB Rating, Add	81.16	
23 05 16 00-0025 EA 1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	687.17	170.66
For 300 LB Rating, Add	86.46	
23 05 16 00-0026 EA 2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	698.85	176.30
For 300 LB Rating, Add	86.48	
23 05 16 00-0027 EA 2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	756.46	192.23
For 300 LB Rating, Add	92.88	
23 05 16 00-0028 EA 3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	854.93	226.09
For 300 LB Rating, Add	100.58	
23 05 16 00-0029 EA 4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,332.55	450.20
For 300 LB Rating, Add	108.27	
23 05 16 00-0030 EA 5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,562.63	459.64
For 300 LB Rating, Add	161.42	
23 05 16 00-0031 EA 6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,570.07	508.90
For 300 LB Rating, Add	138.25	
23 05 16 00-0032 EA 8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,878.08	581.51
For 300 LB Rating, Add	179.19	
23 05 16 00-0033 EA 10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,349.27	712.47
For 300 LB Rating, Add	231.79	
23 05 16 00-0034 EA 12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,984.80	863.65
For 300 LB Rating, Add	314.40	
23 05 16 00-0035 EA 14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,471.05	879.39
For 300 LB Rating, Add	427.97	
23 05 16 00-0036 EA 16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	4,526.05	1,099.23
For 300 LB Rating, Add	581.77	
<b>23 05 17 Sleeves and Sleeve Seals for HVAC Piping</b> (23 05)		
<b>23 05 17 00-0001 Wall Seals And Sleeves</b> (23 05 17) Note: Up to 12" walls. Excludes drilling hole.		
<b>23 05 17 00-0002 Ductile Iron Wall Sleeve</b> (23 05 17 00-0001) Note: Includes rubber gasket seal.		
23 05 17 00-0003 EA 3" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	157.19	67.10
23 05 17 00-0004 EA 4" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	191.54	78.38
23 05 17 00-0005 EA 6" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	233.21	94.03
23 05 17 00-0006 EA 8" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	335.19	140.98
23 05 17 00-0007 EA 10" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	434.66	187.93
23 05 17 00-0008 EA 12" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	537.60	235.01
<b>23 05 17 00-0009 Steel Pipe Sleeves</b> (23 05 17 00-0001) Note: Includes link seals 12" length.		
23 05 17 00-0010 EA 2" Steel Pipe Sleeve With Link Seals.....	185.88	67.91
23 05 17 00-0011 EA 2-1/2" Steel Pipe Sleeve With Link Seals.....	228.71	73.62
23 05 17 00-0012 EA 3" Steel Pipe Sleeve With Link Seals.....	269.22	79.33
23 05 17 00-0013 EA 4" Steel Pipe Sleeve With Link Seals.....	334.33	95.17
23 05 17 00-0014 EA 6" Steel Pipe Sleeve With Link Seals.....	484.29	118.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 17 00-0015 EA 10" Steel Pipe Sleeve With Link Seals.....	1,123.06	142.68
23 05 17 00-0016 EA 13-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	1,360.60	178.36
23 05 17 00-0017 EA 17-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	1,859.71	219.45
23 05 17 00-0018 EA 23-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	2,631.29	285.37
23 05 17 00-0019 EA 29-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	2,578.74	356.71

**23 05 19 Meters and Gages for HVAC Piping** (23 05)

See CSI section 33 19 00 00-0000 for water utility service metering.

<b>23 05 19 00-0001 Thermometers</b> <small>(23 05 19)</small>		
<b>23 05 19 00-0002 Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers</b> <small>(23 05 19 00-0001)</small> Note: Various ranges.		
23 05 19 00-0003 EA 2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer.....	134.13	49.02
23 05 19 00-0004 EA 2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer.....	152.49	49.02
23 05 19 00-0005 EA 3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer.....	152.49	49.02
<b>23 05 19 00-0006 Liquid Filled Industrial Union Connection Type Thermometers</b> <small>(23 05 19 00-0001)</small> Note: Various ranges.		
23 05 19 00-0007 EA 7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer.....	170.85	49.02
23 05 19 00-0008 EA 9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer.....	170.85	49.02
23 05 19 00-0009 EA 12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer.....	209.25	49.02
23 05 19 00-0010 EA 7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer.....	175.86	49.02
23 05 19 00-0011 EA 9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer.....	184.21	49.02
23 05 19 00-0012 EA 12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer.....	214.26	49.02
<b>23 05 19 00-0013 Liquid Filled Industrial Separable Socket Type Thermometers</b> <small>(23 05 19 00-0001)</small> Note: Various ranges. Socket connection for thermowell.		
23 05 19 00-0014 EA 7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....	170.85	49.02
23 05 19 00-0015 EA 9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....	170.85	49.02
23 05 19 00-0016 EA 12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....	209.25	49.02
23 05 19 00-0017 EA 7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....	192.56	49.02
23 05 19 00-0018 EA 9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....	209.25	49.02
23 05 19 00-0019 EA 12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer.....	213.51	49.02
<b>23 05 19 00-0020 1" NPT, 304 Stainless Steel Thermowells</b> <small>(23 05 19 00-0001)</small>		
23 05 19 00-0021 EA 4" Long, 1" NPT, 304 Stainless Steel Thermowell.....	227.30	91.90
23 05 19 00-0022 EA 8" Long, 1" NPT, 304 Stainless Steel Thermowell.....	227.21	91.90
<b>23 05 19 00-0023 Pressure Gauges</b> <small>(23 05 19)</small>		
<b>23 05 19 00-0024 Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>		
23 05 19 00-0025 EA 2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	48.97	19.14
23 05 19 00-0026 EA 4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	58.82	19.14
<b>23 05 19 00-0027 Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>		
23 05 19 00-0028 EA 3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	313.76	19.14
23 05 19 00-0029 EA 4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	313.76	19.14
23 05 19 00-0030 EA 6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	407.32	19.14
23 05 19 00-0031 EA 8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	958.26	19.14
<b>23 05 19 00-0032 Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges</b> <small>(23 05 19 00-0023)</small> Note: Liquid filled.		
23 05 19 00-0033 EA 2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	154.94	19.14
23 05 19 00-0034 EA 4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....	341.47	19.14
<b>23 05 19 00-0035 Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>		
23 05 19 00-0036 EA 4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge.....	337.12	19.14
23 05 19 00-0037 EA 6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge.....	337.12	19.14
23 05 19 00-0038 EA 8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge.....	337.12	19.14
<b>23 05 19 00-0039 Gauge Accessories</b> <small>(23 05 19 00-0023)</small>		
23 05 19 00-0040 EA Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer).....	102.67	15.31
23 05 19 00-0041 EA 1/4" Snubber Valve.....	67.19	15.31
23 05 19 00-0042 EA 1/4" Female Pipe Thread, Brass Gauge Cock.....	42.96	22.98
23 05 19 00-0043 EA 1/4" Male Pipe Thread, Brass Gauge Cock.....	38.02	22.98
23 05 19 00-0044 EA 1/4" Pressure Pigtail Steam Siphon.....	55.01	22.98
23 05 19 00-0045 EA 1/4" x 3" Long Black Steel Nipple.....	10.62	7.66
23 05 19 00-0046 EA 1/4" Steel Thread-O-Let.....	84.83	38.29
23 05 19 00-0047 EA 1/4", 300 LB, Black Steel Union.....	121.00	15.31
23 05 19 00-0048 EA 1/4" Black Steel Coupling.....	33.98	15.31

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 19 Meters and Gages for HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0049 EA 1/4", 300 LB, Black Steel Plug .....	19.15	9.19
23 05 19 00-0050 EA 1/4", 150 LB, Black Steel Cap .....	20.26	9.19
23 05 19 00-0051 LF 1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe .....	12.77	5.06
23 05 19 00-0052 LF 1/4" Schedule 80, Plain End, Black Steel Pipe .....	12.78	5.06
23 05 19 00-0053 LF 1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe .....	11.30	
23 05 19 00-0054 EA 1/4" Threaded, 800 LB, Forged Steel, Ball Valve .....	124.48	
<b>23 05 19 00-0055 Valve Lock Covers (23 05 19)</b>		
23 05 19 00-0056 EA Valve Lock Cover .....	96.83	23.44
<b>23 05 19 00-0057 Venturi Flowmeters (23 05 19)</b>		
<b>23 05 19 00-0058 Threaded, Brass, Venturi Flowmeters (23 05 19 00-0057)</b>		
23 05 19 00-0059 EA 3/4" Threaded, Brass, Venturi Flowmeter .....	335.41	104.16
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0060 EA 1" Threaded, Brass, Venturi Flowmeter .....	373.35	125.00
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0061 EA 1-1/4" Threaded, Brass, Venturi Flowmeter .....	412.06	138.93
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0062 EA 1-1/2" Threaded, Brass, Venturi Flowmeter .....	464.35	156.24
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0063 EA 2" Threaded, Brass, Venturi Flowmeter .....	550.63	178.61
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0064 EA 2-1/2" Threaded, Brass, Venturi Flowmeter .....	725.49	221.17
For Portable Venturi Flow Meter, Add	995.00	
<b>23 05 19 00-0065 Butt Weld, Carbon Steel, Venturi Flowmeters (23 05 19 00-0057)</b>		
23 05 19 00-0066 EA 3" Butt Weld, Carbon Steel, Venturi Flowmeter .....	2,574.48	214.03
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	751.25	
23 05 19 00-0067 EA 4" Butt Weld, Carbon Steel, Venturi Flowmeter .....	3,590.21	256.83
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,076.79	
23 05 19 00-0068 EA 5" Butt Weld, Carbon Steel, Venturi Flowmeter .....	4,720.29	321.04
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,427.37	
23 05 19 00-0069 EA 6" Butt Weld, Carbon Steel, Venturi Flowmeter .....	5,578.24	428.05
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,652.75	
23 05 19 00-0070 EA 8" Butt Weld, Carbon Steel, Venturi Flowmeter .....	8,253.62	513.66
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	2,529.21	
23 05 19 00-0071 EA 10" Butt Weld, Carbon Steel, Venturi Flowmeter .....	13,661.88	642.08
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	4,332.21	
23 05 19 00-0072 EA 12" Butt Weld, Carbon Steel, Venturi Flowmeter .....	20,384.76	819.65
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	6,560.91	
23 05 19 00-0073 EA 14" Butt Weld, Carbon Steel, Venturi Flowmeter .....	28,502.28	1,229.47
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	9,115.16	
23 05 19 00-0074 EA 16" Butt Weld, Carbon Steel, Venturi Flowmeter .....	43,156.55	1,366.08
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	14,148.53	
<b>23 05 19 00-0075 Turbine Flowmeter (23 05 19)</b>		
23 05 19 00-0076 EA Saddle Mount Turbine Flowmeter .....	1,852.27	114.88
<b>23 05 19 00-0077 Sight Flow Indicator (23 05 19)</b>		
<b>23 05 19 00-0078 Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (23 05 19 00-0077)</b>		
23 05 19 00-0079 EA 1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....	182.15	22.30
23 05 19 00-0080 EA 3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....	190.32	23.47
23 05 19 00-0081 EA 1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....	205.61	24.66
23 05 19 00-0082 EA 3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....	232.11	33.23
23 05 19 00-0083 EA 1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....	277.61	40.27
23 05 19 00-0084 EA 1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....	316.59	50.99
23 05 19 00-0085 EA 1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....	444.20	58.96
23 05 19 00-0086 EA 2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100) .....	493.60	69.67





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0087				<b>Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0088	EA			1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....	234.61	22.30
23 05 19 00-0089	EA			3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....	241.61	23.47
23 05 19 00-0090	EA			1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....	260.40	24.66
23 05 19 00-0091	EA			3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....	278.74	33.23
23 05 19 00-0092	EA			1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....	297.43	40.27
23 05 19 00-0093	EA			1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....	324.75	50.99
23 05 19 00-0094	EA			1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....	602.74	58.96
23 05 19 00-0095	EA			2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300) .....	647.48	69.67
23 05 19 00-0096				<b>Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0097	EA			1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....	336.03	22.30
23 05 19 00-0098	EA			3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....	354.69	23.47
23 05 19 00-0099	EA			1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....	385.14	24.66
23 05 19 00-0100	EA			3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....	420.96	33.23
23 05 19 00-0101	EA			1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....	483.95	40.27
23 05 19 00-0102	EA			1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....	514.77	50.99
23 05 19 00-0103	EA			1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....	1,022.41	58.96
23 05 19 00-0104	EA			2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS) .....	1,078.80	69.67
23 05 19 00-0105				<b>Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0106	EA			1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....	231.11	22.30
23 05 19 00-0107	EA			3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....	240.44	23.47
23 05 19 00-0108	EA			1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....	254.57	24.66
23 05 19 00-0109	EA			3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....	277.57	33.23
23 05 19 00-0110	EA			1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....	296.26	40.27
23 05 19 00-0111	EA			1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....	324.75	50.99
23 05 19 00-0112	EA			1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....	595.75	58.96
23 05 19 00-0113	EA			2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360) .....	638.15	69.67
23 05 19 00-0114				<b>Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0115	EA			1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	333.70	22.30
23 05 19 00-0116	EA			3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	359.35	23.47
23 05 19 00-0117	EA			1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	392.13	24.66
23 05 19 00-0118	EA			3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	420.96	33.23
23 05 19 00-0119	EA			1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	483.95	40.27
23 05 19 00-0120	EA			1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	519.43	50.99
23 05 19 00-0121	EA			1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	1,022.41	58.96
23 05 19 00-0122	EA			2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	1,078.80	69.67
23 05 19 00-0123				<b>Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0124	EA			1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....	493.28	40.27
23 05 19 00-0125	EA			1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....	556.73	50.99
23 05 19 00-0126	EA			1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....	633.05	58.96
23 05 19 00-0127	EA			2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....	712.76	69.67
23 05 19 00-0128				<b>Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0129	EA			1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....	1,090.36	160.79
23 05 19 00-0130	EA			2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....	1,223.38	204.13
23 05 19 00-0131	EA			3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....	1,788.04	239.67
23 05 19 00-0132	EA			4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....	2,707.35	401.80

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 19 Meters and Gages for HVAC Piping**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0133	EA		6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS).....	4,299.78	449.69
<b>23 05 19 00-0134</b>			<b>Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0135	EA		1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....	834.59	114.85
23 05 19 00-0136	EA		1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....	984.80	133.99
23 05 19 00-0137	EA		1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....	1,066.47	160.79
23 05 19 00-0138	EA		2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....	1,337.04	204.13
23 05 19 00-0139	EA		3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....	1,927.35	239.67
23 05 19 00-0140	EA		4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F).....	2,858.32	401.80
<b>23 05 19 00-0141</b>			<b>Water Flow Switches</b> <small>(23 05 19)</small>		
23 05 19 00-0142	EA		Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1).....	318.98	45.13
23 05 19 00-0143	EA		Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1).....	329.64	45.13
23 05 19 00-0144	EA		Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1).....	419.69	45.13
23 05 19 00-0145	EA		Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1).....	433.32	45.13
23 05 19 00-0146	EA		Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1).....	343.28	45.13
23 05 19 00-0147	EA		Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1).....	355.71	45.13
23 05 19 00-0148	EA		Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1).....	443.99	45.13
23 05 19 00-0149	EA		Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1).....	456.42	45.13
23 05 19 00-0150	EA		Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1).....	856.83	45.13
23 05 19 00-0151	EA		Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1).....	868.88	45.13
23 05 19 00-0152	EA		Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1).....	983.34	45.13
23 05 19 00-0153	EA		Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1).....	999.91	45.13
23 05 19 00-0154	EA		Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1).....	885.45	45.13
23 05 19 00-0155	EA		Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1).....	902.01	45.13
23 05 19 00-0156	EA		Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1).....	1,011.96	45.13
23 05 19 00-0157	EA		Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1).....	1,030.03	45.13

**23 05 23 General-Duty Valves For HVAC Piping** (23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 22 05 23 00-0000 for additional valves, 23 21 13 23-0713 for bolt and gasket sets.

<b>23 05 23 00-0001</b>			<b>Gate Valves</b> <small>(23 05 23)</small>		
<b>23 05 23 00-0002</b>			<b>Class 125 Threaded, Bronze Gate Valves</b> <small>(23 05 23 00-0001)</small>		
			Note: 125 psi steam, basic rating, 200 psi cold working pressure.		
23 05 23 00-0003	EA		1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	76.57	15.31
			<i>For Work In Restricted Working Space, Add</i>	13.38	
			<i>For 150 LB Rating, Add</i>	3.20	
			<i>For 200 LB Rating, Add</i>	4.80	
			<i>For 250 LB Rating, Add</i>	8.00	
			<i>For 300 LB Rating, Add</i>	11.19	
23 05 23 00-0004	EA		3/8" Diameter, 125 LB, Threaded Bronze Gate Valve.....	78.91	15.31
			<i>For Work In Restricted Working Space, Add</i>	14.08	
			<i>For 150 LB Rating, Add</i>	3.20	
			<i>For 200 LB Rating, Add</i>	4.80	
			<i>For 250 LB Rating, Add</i>	8.00	
			<i>For 300 LB Rating, Add</i>	11.19	
23 05 23 00-0005	EA		1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	81.38	15.31
			<i>For Work In Restricted Working Space, Add</i>	14.82	
			<i>For 150 LB Rating, Add</i>	3.20	
			<i>For 200 LB Rating, Add</i>	4.80	
			<i>For 250 LB Rating, Add</i>	8.00	
			<i>For 300 LB Rating, Add</i>	11.19	
23 05 23 00-0006	EA		3/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	104.73	16.85
			<i>For Work In Restricted Working Space, Add</i>	19.97	
			<i>For 150 LB Rating, Add</i>	3.82	
			<i>For 200 LB Rating, Add</i>	5.72	
			<i>For 250 LB Rating, Add</i>	9.54	
			<i>For 300 LB Rating, Add</i>	13.36	
23 05 23 00-0007	EA		1" Diameter, 125 LB, Threaded Bronze Gate Valve.....	138.25	19.14
			<i>For Work In Restricted Working Space, Add</i>	24.18	
			<i>For 150 LB Rating, Add</i>	5.77	
			<i>For 200 LB Rating, Add</i>	8.65	
			<i>For 250 LB Rating, Add</i>	14.41	
			<i>For 300 LB Rating, Add</i>	20.18	
23 05 23 00-0008	EA		1-1/4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	179.82	20.37
			<i>For Work In Restricted Working Space, Add</i>	30.63	
			<i>For 150 LB Rating, Add</i>	7.77	
			<i>For 200 LB Rating, Add</i>	11.66	
			<i>For 250 LB Rating, Add</i>	19.43	
			<i>For 300 LB Rating, Add</i>	27.21	
23 05 23 00-0009	EA		1-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve.....	215.74	23.58
			<i>For Work In Restricted Working Space, Add</i>	35.34	
			<i>For 150 LB Rating, Add</i>	9.80	
			<i>For 200 LB Rating, Add</i>	14.69	
			<i>For 250 LB Rating, Add</i>	24.49	
			<i>For 300 LB Rating, Add</i>	34.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0010 EA 2" Diameter, 125 LB, Threaded Bronze Gate Valve .....	273.04	27.87
<i>For Work In Restricted Working Space, Add</i>	41.76	
<i>For 150 LB Rating, Add</i>	13.38	
<i>For 200 LB Rating, Add</i>	20.07	
<i>For 250 LB Rating, Add</i>	33.46	
<i>For 300 LB Rating, Add</i>	46.84	
23 05 23 00-0011 EA 2-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve .....	569.65	37.64
<i>For Work In Restricted Working Space, Add</i>	56.39	
<i>For Chain Operated Type, Add</i>	171.76	
<i>For 150 LB Rating, Add</i>	38.17	
<i>For 200 LB Rating, Add</i>	57.25	
<i>For 250 LB Rating, Add</i>	95.42	
<i>For 300 LB Rating, Add</i>	133.59	
23 05 23 00-0012 EA 3" Diameter, 125 LB, Threaded Bronze Gate Valve .....	673.14	43.70
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For Chain Operated Type, Add</i>	205.31	
<i>For 150 LB Rating, Add</i>	45.63	
<i>For 200 LB Rating, Add</i>	68.44	
<i>For 250 LB Rating, Add</i>	114.06	
<i>For 300 LB Rating, Add</i>	159.69	
23 05 23 00-0013 EA 4" Diameter, 125 LB, Threaded Bronze Gate Valve .....	1,333.62	49.34
<i>For Work In Restricted Working Space, Add</i>	74.01	
<i>For Chain Operated Type, Add</i>	489.11	
<i>For 150 LB Rating, Add</i>	108.69	
<i>For 200 LB Rating, Add</i>	163.04	
<i>For 250 LB Rating, Add</i>	271.73	
<i>For 300 LB Rating, Add</i>	380.42	
<b>23 05 23 00-0014 Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0015 EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	306.70	23.58
<i>For Work In Restricted Working Space, Add</i>	35.34	
<i>For 150 LB Rating, Add</i>	37.78	
<i>For 250 LB Rating, Add</i>	66.12	
<i>For Chain Operated Type, Add</i>	66.12	
23 05 23 00-0016 EA 2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	458.43	27.87
<i>For Work In Restricted Working Space, Add</i>	41.76	
<i>For 150 LB Rating, Add</i>	63.84	
<i>For 250 LB Rating, Add</i>	111.73	
<i>For Chain Operated Type, Add</i>	111.73	
23 05 23 00-0017 EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	668.07	37.64
<i>For Work In Restricted Working Space, Add</i>	56.39	
<i>For 150 LB Rating, Add</i>	96.02	
<i>For 250 LB Rating, Add</i>	168.04	
<i>For Chain Operated Type, Add</i>	168.04	
23 05 23 00-0018 EA 3" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	846.81	43.70
<i>For Work In Restricted Working Space, Add</i>	65.07	
<i>For 150 LB Rating, Add</i>	125.98	
<i>For 250 LB Rating, Add</i>	220.47	
<i>For Chain Operated Type, Add</i>	220.47	
23 05 23 00-0019 EA 4" Diameter, Class 125 Non-Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	1,942.39	49.34
<i>For Work In Restricted Working Space, Add</i>	74.01	
<i>For 150 LB Rating, Add</i>	339.14	
<i>For 250 LB Rating, Add</i>	593.49	
<i>For Chain Operated Type, Add</i>	593.49	
<b>23 05 23 00-0020 Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0021 EA 1-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	517.69	160.79
<i>For Work In Restricted Working Space, Add</i>	60.44	
<i>For 150 LB Rating, Add</i>	91.70	
<i>For 250 LB Rating, Add</i>	158.11	
<i>For 300 LB Rating, ASTM A182, Add</i>	416.95	
<i>For Chain Operated Type, Add</i>	158.11	
23 05 23 00-0022 EA 2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	585.92	204.13
<i>For Work In Restricted Working Space, Add</i>	76.57	
<i>For 150 LB Rating, Add</i>	95.90	
<i>For 250 LB Rating, Add</i>	165.35	
<i>For 300 LB Rating, ASTM A182, Add</i>	458.31	
<i>For Chain Operated Type, Add</i>	165.35	
23 05 23 00-0023 EA 2-1/2" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	653.11	204.42
<i>For Work In Restricted Working Space, Add</i>	76.90	
<i>For 150 LB Rating, Add</i>	115.07	
<i>For 250 LB Rating, Add</i>	198.39	
<i>For 300 LB Rating, ASTM A182, Add</i>	524.95	
<i>For Chain Operated Type, Add</i>	198.39	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0024	EA		3" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	795.91	239.67
			<i>For Work In Restricted Working Space, Add</i>	89.99	
			<i>For 150 LB Rating, Add</i>	143.83	
			<i>For 250 LB Rating, Add</i>	247.98	
			<i>For 300 LB Rating, ASTM A182, Add</i>	645.93	
			<i>For Chain Operated Type, Add</i>	247.98	
23 05 23 00-0025	EA		4" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	1,164.80	401.80
			<i>For Work In Restricted Working Space, Add</i>	151.05	
			<i>For 150 LB Rating, Add</i>	191.78	
			<i>For 250 LB Rating, Add</i>	330.65	
			<i>For 300 LB Rating, ASTM A182, Add</i>	913.05	
			<i>For Chain Operated Type, Add</i>	330.65	
23 05 23 00-0026	EA		5" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	1,364.73	404.73
			<i>For Work In Restricted Working Space, Add</i>	151.54	
			<i>For 150 LB Rating, Add</i>	249.29	
			<i>For 250 LB Rating, Add</i>	429.81	
			<i>For 300 LB Rating, ASTM A182, Add</i>	1,112.17	
			<i>For Chain Operated Type, Add</i>	429.81	
23 05 23 00-0027	EA		6" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	1,622.00	449.69
			<i>For Work In Restricted Working Space, Add</i>	169.24	
			<i>For 150 LB Rating, Add</i>	306.78	
			<i>For 250 LB Rating, Add</i>	528.94	
			<i>For 300 LB Rating, ASTM A182, Add</i>	1,339.94	
			<i>For Chain Operated Type, Add</i>	528.94	
23 05 23 00-0028	EA		8" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	2,466.17	574.61
			<i>For Work In Restricted Working Space, Add</i>	214.14	
			<i>For 150 LB Rating, Add</i>	508.19	
			<i>For 250 LB Rating, Add</i>	876.19	
			<i>For 300 LB Rating, ASTM A182, Add</i>	2,109.27	
			<i>For Chain Operated Type, Add</i>	876.19	
23 05 23 00-0029	EA		10" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	3,188.69	699.52
			<i>For Work In Restricted Working Space, Add</i>	262.32	
			<i>For 150 LB Rating, Add</i>	671.14	
			<i>For 250 LB Rating, Add</i>	1,157.15	
			<i>For 300 LB Rating, ASTM A182, Add</i>	2,751.49	
			<i>For Chain Operated Type, Add</i>	1,157.15	
23 05 23 00-0030	EA		12" Diameter, Class 125 Non-Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	4,366.17	849.42
			<i>For Work In Restricted Working Space, Add</i>	317.96	
			<i>For 150 LB Rating, Add</i>	958.82	
			<i>For 250 LB Rating, Add</i>	1,653.15	
			<i>For 300 LB Rating, ASTM A182, Add</i>	3,836.23	
			<i>For Chain Operated Type, Add</i>	1,653.15	
23 05 23 00-0031			<b>Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small>		
			Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0032	EA		1-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	580.87	23.58
			<i>For Work In Restricted Working Space, Add</i>	35.34	
			<i>For 175 LB Rating, Add</i>	231.54	
			<i>For 250 LB Rating, Add</i>	347.31	
23 05 23 00-0033	EA		2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	737.85	27.87
			<i>For Work In Restricted Working Space, Add</i>	41.76	
			<i>For 175 LB Rating, Add</i>	299.32	
			<i>For 250 LB Rating, Add</i>	448.98	
23 05 23 00-0034	EA		2-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	863.01	37.64
			<i>For Work In Restricted Working Space, Add</i>	56.39	
			<i>For 175 LB Rating, Add</i>	337.52	
			<i>For 250 LB Rating, Add</i>	506.28	
23 05 23 00-0035	EA		3" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	961.73	43.70
			<i>For Work In Restricted Working Space, Add</i>	65.07	
			<i>For 175 LB Rating, Add</i>	372.42	
			<i>For 250 LB Rating, Add</i>	558.63	
23 05 23 00-0036	EA		4" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	1,275.23	49.34
			<i>For Work In Restricted Working Space, Add</i>	74.01	
			<i>For 175 LB Rating, Add</i>	514.26	
			<i>For 250 LB Rating, Add</i>	771.39	
23 05 23 00-0037			<b>Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small>		
			Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0038	EA		1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	657.31	160.79
			<i>For Work In Restricted Working Space, Add</i>	60.44	
			<i>For 150 LB Rating, Add</i>	68.37	
			<i>For 175 LB Rating, Add</i>	141.31	
			<i>For 250 LB Rating, Add</i>	296.29	
			<i>For Chain Operated Type, Add</i>	227.92	
23 05 23 00-0039	EA		2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	724.59	204.13
			<i>For Work In Restricted Working Space, Add</i>	76.57	
			<i>For 150 LB Rating, Add</i>	70.41	
			<i>For 175 LB Rating, Add</i>	145.50	
			<i>For 250 LB Rating, Add</i>	305.09	
			<i>For Chain Operated Type, Add</i>	234.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0040 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....741.03 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	741.03 76.90 72.71 150.26 315.06 242.35	204.42
23 05 23 00-0041 EA 3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....833.26 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	833.26 89.99 80.00 165.32 346.65 266.65	239.67
23 05 23 00-0042 EA 4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....1,150.25 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	1,150.25 151.05 97.01 200.49 420.39 323.38	401.80
23 05 23 00-0043 EA 5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....1,407.47 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	1,407.47 151.54 135.35 279.73 586.53 451.18	404.73
23 05 23 00-0044 EA 6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....1,594.65 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	1,594.65 169.24 154.58 319.46 669.84 515.26	449.69
23 05 23 00-0045 EA 8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....2,456.70 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	2,456.70 214.14 261.44 540.30 1,132.89 871.45	574.61
23 05 23 00-0046 EA 10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....3,556.71 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	3,556.71 262.32 402.35 831.52 1,743.50 1,341.16	699.52
23 05 23 00-0047 EA 12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....4,459.49 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i>	4,459.49 317.96 509.94 1,053.88 2,209.75 1,699.81	849.42
23 05 23 00-0048 EA 14" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....8,668.64 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	8,668.64 425.70 1,087.44 2,247.39 4,712.26	1,135.21
23 05 23 00-0049 EA 16" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....11,203.65 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	11,203.65 468.27 1,446.41 2,989.25 6,267.78	1,248.73
23 05 23 00-0050 EA 18" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....15,231.20 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	15,231.20 519.36 2,025.00 4,185.00 8,775.01	1,384.96
23 05 23 00-0051 EA 20" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....19,305.63 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	19,305.63 585.34 2,603.17 5,379.89 11,280.42	1,560.91
23 05 23 00-0052 EA 24" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....26,335.48 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	26,335.48 718.37 3,591.14 7,421.68 15,561.59	1,915.67
23 05 23 00-0053 EA 30" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....54,776.69 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	54,776.69 1,170.68 7,631.16 15,771.07 33,068.37	3,121.82
23 05 23 00-0054 EA 36" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....69,843.47 <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	69,843.47 1,560.91 9,696.06 20,038.53 42,016.28	4,162.44

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0055	EA		42" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	82,093.77 2,003.98 11,312.08 23,378.29 49,019.00	5,343.94
23 05 23 00-0056	EA		48" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	98,793.31 2,504.97 13,566.51 28,037.45 58,788.21	6,679.93
23 05 23 00-0057	EA		54" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve ..... <i>For Work In Restricted Working Space, Add</i> <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i>	118,551.98 3,005.97 16,279.81 33,644.94 70,545.85	8,015.91
<b>23 05 23 00-0058</b>			<b>Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valves</b> (23 05 23 00-0001) Note: 800 psig at 850 degrees F.		
23 05 23 00-0059	EA		1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	177.30 13.38	15.31
23 05 23 00-0060	EA		1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	182.11 14.82	15.31
23 05 23 00-0061	EA		3/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	217.09 19.97	16.85
23 05 23 00-0062	EA		1" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	263.49 24.18	19.14
23 05 23 00-0063	EA		1-1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	397.17 30.63	20.37
23 05 23 00-0064	EA		1-1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	469.00 35.34	23.58
23 05 23 00-0065	EA		2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	587.52 41.76	27.87
<b>23 05 23 00-0066</b>			<b>Ball Valves</b> (23 05 23) See CSI section 23 23 13 00-0000 for refrigeration valves.		
<b>23 05 23 00-0067</b>			<b>Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves</b> (23 05 23 00-0066) Note: 125 LB WSP.		
23 05 23 00-0068	EA		1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve ..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.17 2.63 6.20 14.82	15.31
23 05 23 00-0069	EA		3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve ..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	87.75 2.63 9.53 19.97	16.85
23 05 23 00-0070	EA		1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve ..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.19 2.63 12.87 24.18	19.14
23 05 23 00-0071	EA		1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve ..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.09 2.63 21.60 30.63	20.37
23 05 23 00-0072	EA		1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve ..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	179.09 2.63 27.59 35.34	23.58
23 05 23 00-0073	EA		2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve ..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	216.00 2.63 34.56 41.76	27.87
23 05 23 00-0074	EA		2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve ..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	550.37 2.63 163.08 56.39	37.64
23 05 23 00-0075	EA		3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve ..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	635.03 2.63 188.16 65.07	43.70
23 05 23 00-0076	EA		4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve ..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	816.78 2.63 256.53 74.01	49.34



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 23 00-0077      Screwed, 150 LB, Full Port, Carbon Steel Ball Valves</b> <small>(23 05 23 00-0066)</small>						
	23 05 23 00-0078	EA		1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....70.95		15.31
				<i>For Work In Restricted Working Space, Add</i>	13.38	
	23 05 23 00-0079	EA		1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....78.01		15.31
				<i>For Work In Restricted Working Space, Add</i>	14.82	
	23 05 23 00-0080	EA		3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....107.94		16.85
				<i>For Work In Restricted Working Space, Add</i>	19.97	
	23 05 23 00-0081	EA		1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....136.24		19.14
				<i>For Work In Restricted Working Space, Add</i>	24.18	
	23 05 23 00-0082	EA		1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....197.18		20.37
				<i>For Work In Restricted Working Space, Add</i>	30.63	
	23 05 23 00-0083	EA		1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....238.25		23.58
				<i>For Work In Restricted Working Space, Add</i>	35.34	
	23 05 23 00-0084	EA		2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve .....305.07		27.87
				<i>For Work In Restricted Working Space, Add</i>	41.76	
<b>23 05 23 00-0085      Flanged, 150 LB, Full Port, Carbon Steel Ball Valves</b> <small>(23 05 23 00-0066)</small>						
	23 05 23 00-0086	EA		1-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....438.89		160.79
				<i>For Work In Restricted Working Space, Add</i>	60.44	
				<i>For 150 LB Rating, Add</i>	68.85	
				<i>For 250 LB Rating, Add</i>	118.71	
				<i>For 300 LB Rating, ASTM A182, Add</i>	338.15	
				<i>For Chain Operated Type, Add</i>	118.71	
				<i>For Work In Restricted Working Space, Add</i>	60.44	
	23 05 23 00-0087	EA		2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....549.75		204.13
				<i>For Work In Restricted Working Space, Add</i>	76.57	
				<i>For 150 LB Rating, Add</i>	85.41	
				<i>For 250 LB Rating, Add</i>	147.27	
				<i>For 300 LB Rating, ASTM A182, Add</i>	422.14	
				<i>For Chain Operated Type, Add</i>	147.27	
				<i>For Work In Restricted Working Space, Add</i>	76.57	
	23 05 23 00-0088	EA		2-1/2" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....794.37		204.42
				<i>For Work In Restricted Working Space, Add</i>	76.90	
				<i>For 150 LB Rating, Add</i>	156.03	
				<i>For 250 LB Rating, Add</i>	269.02	
				<i>For 300 LB Rating, ASTM A182, Add</i>	666.21	
				<i>For Chain Operated Type, Add</i>	269.02	
				<i>For Work In Restricted Working Space, Add</i>	76.90	
	23 05 23 00-0089	EA		3" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....881.69		239.67
				<i>For Work In Restricted Working Space, Add</i>	89.99	
				<i>For 150 LB Rating, Add</i>	168.70	
				<i>For 250 LB Rating, Add</i>	290.87	
				<i>For 300 LB Rating, ASTM A182, Add</i>	731.71	
				<i>For Chain Operated Type, Add</i>	290.87	
				<i>For Work In Restricted Working Space, Add</i>	89.99	
	23 05 23 00-0090	EA		4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....1,320.59		401.80
				<i>For Work In Restricted Working Space, Add</i>	151.05	
	23 05 23 00-0091	EA		6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....2,779.55		449.69
				<i>For Work In Restricted Working Space, Add</i>	169.24	
	23 05 23 00-0092	EA		8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve .....4,644.59		574.61
				<i>For Work In Restricted Working Space, Add</i>	214.14	
<b>23 05 23 00-0093      Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves</b> <small>(23 05 23 00-0066)</small>						
	23 05 23 00-0094	EA		1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....62.32		15.31
				<i>For True Union Socket Or Thread Type, Add</i>	7.76	
				<i>For Work In Restricted Working Space, Add</i>	14.82	
	23 05 23 00-0095	EA		3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....81.44		16.85
				<i>For True Union Socket Or Thread Type, Add</i>	9.44	
				<i>For Work In Restricted Working Space, Add</i>	19.97	
	23 05 23 00-0096	EA		1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....101.32		19.14
				<i>For True Union Socket Or Thread Type, Add</i>	12.52	
				<i>For Work In Restricted Working Space, Add</i>	24.18	
	23 05 23 00-0097	EA		1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....129.30		20.37
				<i>For True Union Socket Or Thread Type, Add</i>	16.24	
				<i>For Work In Restricted Working Space, Add</i>	30.63	
	23 05 23 00-0098	EA		1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....165.13		23.58
				<i>For True Union Socket Or Thread Type, Add</i>	25.12	
				<i>For Work In Restricted Working Space, Add</i>	35.34	
	23 05 23 00-0099	EA		2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....199.54		27.87
				<i>For True Union Socket Or Thread Type, Add</i>	31.44	
				<i>For Work In Restricted Working Space, Add</i>	41.76	
	23 05 23 00-0100	EA		2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....317.78		37.64
				<i>For True Union Socket Or Thread Type, Add</i>	61.79	
				<i>For Work In Restricted Working Space, Add</i>	56.39	
	23 05 23 00-0101	EA		3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....437.62		43.70
				<i>For True Union Socket Or Thread Type, Add</i>	99.68	
				<i>For Work In Restricted Working Space, Add</i>	65.07	
	23 05 23 00-0102	EA		4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve .....668.75		49.34
				<i>For True Union Socket Or Thread Type, Add</i>	181.77	
				<i>For Work In Restricted Working Space, Add</i>	74.01	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 23 00-0103 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves</b> <small>(23 05 23 00-0066)</small>		
23 05 23 00-0104 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	108.31	22.97
For Full Port, Add	18.64	
For Work In Restricted Working Space, Add	20.07	
23 05 23 00-0105 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	111.82	22.97
For Full Port, Add	18.64	
For Work In Restricted Working Space, Add	21.12	
23 05 23 00-0106 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	115.51	22.97
For Full Port, Add	18.64	
For Work In Restricted Working Space, Add	22.23	
23 05 23 00-0107 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	143.78	25.27
For Full Port, Add	19.76	
For Work In Restricted Working Space, Add	29.96	
23 05 23 00-0108 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	185.95	28.71
For Full Port, Add	29.27	
For Work In Restricted Working Space, Add	36.27	
23 05 23 00-0109 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	242.16	30.55
For Full Port, Add	40.06	
For Work In Restricted Working Space, Add	45.94	
23 05 23 00-0110 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	295.07	35.37
For Full Port, Add	53.27	
For Work In Restricted Working Space, Add	53.01	
23 05 23 00-0111 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	401.46	41.81
For Full Port, Add	86.69	
For Work In Restricted Working Space, Add	62.64	
23 05 23 00-0112 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	749.48	56.46
For Full Port, Add	210.38	
For Work In Restricted Working Space, Add	84.59	
23 05 23 00-0113 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	1,067.73	65.55
For Full Port, Add	334.07	
For Work In Restricted Working Space, Add	97.61	
<b>23 05 23 00-0114 Wye Strainer, Union With Two Pressure Ports, Ball Valves</b> <small>(23 05 23 00-0066)</small>		
23 05 23 00-0115 EA 1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	185.12	15.31
23 05 23 00-0116 EA 3/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	238.21	19.90
23 05 23 00-0117 EA 1" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	305.81	24.50
23 05 23 00-0118 EA 1-1/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	415.53	33.68
23 05 23 00-0119 EA 1-1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	517.41	39.20
23 05 23 00-0120 EA 2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve.....	679.12	45.94
<b>23 05 23 00-0121 Plastic Ball Valves</b> <small>(23 05 23 00-0066)</small>		
Note: Threaded or socket.		
<b>23 05 23 00-0122 Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valves</b> <small>(23 05 23 00-0121)</small>		
23 05 23 00-0123 EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	84.25	15.31
23 05 23 00-0124 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	87.98	15.31
23 05 23 00-0125 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	112.29	16.85
23 05 23 00-0126 EA 1" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	145.00	19.14
23 05 23 00-0127 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	173.91	20.37
23 05 23 00-0128 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	209.17	23.58
23 05 23 00-0129 EA 2" Ethylene Propylene Diene Monomer (EPDM) Liner And Seals, Polyvinyl Chloride (PVC) Ball Valve (George Fisher Type 346).....	253.77	27.87
<b>23 05 23 00-0130 Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valves</b> <small>(23 05 23 00-0121)</small>		
23 05 23 00-0131 EA 3/8" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	120.75	15.31
23 05 23 00-0132 EA 1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	122.82	15.31
23 05 23 00-0133 EA 3/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	155.42	16.85
23 05 23 00-0134 EA 1" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	191.74	19.14
23 05 23 00-0135 EA 1-1/4" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	284.56	20.37
23 05 23 00-0136 EA 1-1/2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	316.85	23.58
23 05 23 00-0137 EA 2" Viton Liner And Seals, Chlorinated Polyvinyl Chloride (CPVC) Ball Valve (George Fisher Type 346).....	379.74	27.87
<b>23 05 23 00-0138 Viton Liner And Seals, Polypropylene (PP) Ball Valves</b> <small>(23 05 23 00-0121)</small>		
23 05 23 00-0139 EA 3/8" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	133.19	15.31
23 05 23 00-0140 EA 1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	143.55	15.31
23 05 23 00-0141 EA 3/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	167.03	16.85
23 05 23 00-0142 EA 1" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	205.01	19.14
23 05 23 00-0143 EA 1-1/4" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346).....	258.02	20.37





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05	23	00-0144	EA 1-1/2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	308.55	23.58
	23 05	23	00-0145	EA 2" Viton Liner And Seals, Polypropylene (PP) Ball Valve (George Fisher Type 346)	396.32	27.87
<b>23 05 23 00-0146</b>				<b>Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valves</b> <small>(23 05 23 00-0121)</small>		
	23 05	23	00-0147	EA 3/8" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	255.94	15.31
	23 05	23	00-0148	EA 1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	272.94	15.31
	23 05	23	00-0149	EA 3/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	326.27	16.85
	23 05	23	00-0150	EA 1" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	382.50	19.14
	23 05	23	00-0151	EA 1-1/4" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	467.03	20.37
	23 05	23	00-0152	EA 1-1/2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	515.90	23.58
	23 05	23	00-0153	EA 2" Viton Liner And Seals, Polyvinylidene Fluoride (PVDF) Ball Valve (George Fisher Type 346)	595.38	27.87
<b>23 05 23 00-0154</b>				<b>Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valves</b> <small>(23 05 23 00-0121)</small>		
	23 05	23	00-0155	EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	61.69	15.31
	23 05	23	00-0156	EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	82.68	16.85
	23 05	23	00-0157	EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	100.51	19.14
	23 05	23	00-0158	EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	137.26	20.37
	23 05	23	00-0159	EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	152.96	23.58
	23 05	23	00-0160	EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals And Teflon Seats, Polyvinyl Chloride (PVC) Ball Valve (Hayward QIC Compact)	185.57	27.87
<b>23 05 23 00-0161</b>				<b>Plastic, True Union, Ball Valves</b> <small>(23 05 23 00-0066)</small>		
<b>23 05 23 00-0162</b>				<b>Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valves</b> <small>(23 05 23 00-0161)</small>		
				Note: Socket or NPT connectors.		
	23 05	23	00-0163	EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	129.87	15.31
	23 05	23	00-0164	EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	135.26	15.31
	23 05	23	00-0165	EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	165.37	16.85
	23 05	23	00-0166	EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	203.35	19.14
	23 05	23	00-0167	EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	246.41	20.37
	23 05	23	00-0168	EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	283.67	23.58
	23 05	23	00-0169	EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Vertical Ball Valve (George Fisher Type 343)	346.56	27.87
<b>23 05 23 00-0170</b>				<b>Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valves</b> <small>(23 05 23 00-0161)</small>		
				Note: Socket or NPT connectors.		
	23 05	23	00-0171	EA 3/8" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	131.53	15.31
	23 05	23	00-0172	EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	151.85	15.31
	23 05	23	00-0173	EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	167.03	16.85
	23 05	23	00-0174	EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	203.35	19.14
	23 05	23	00-0175	EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	243.09	20.37
	23 05	23	00-0176	EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	282.01	23.58
	23 05	23	00-0177	EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC) Or Chlorinated Polyvinyl Chloride (CPVC), True Union, Horizontal Ball Valve (George Fisher Type 343)	346.56	27.87
<b>23 05 23 00-0178</b>				<b>Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valves</b> <small>(23 05 23 00-0161)</small>		
				Note: Socket or NPT connectors.		
	23 05	23	00-0179	EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	77.20	15.31
	23 05	23	00-0180	EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	99.85	16.85
	23 05	23	00-0181	EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	120.41	19.14

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0182 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	157.66	20.37
23 05 23 00-0183 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	184.14	23.58
23 05 23 00-0184 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	247.03	27.87
23 05 23 00-0185 EA 2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	343.90	37.64
23 05 23 00-0186 EA 3" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	429.22	43.70
23 05 23 00-0187 EA 4" Ethylene Propylene Diene Monomer (EPDM) Seals, Polyvinyl Chloride (PVC), True Union, Ball Valve (George Fisher Type 560)	595.06	49.34
<b>23 05 23 00-0188 Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valves (23 05 23 00-0161)</b>		
Note: Socket or NPT connectors.		
23 05 23 00-0189 EA 1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	88.81	15.31
23 05 23 00-0190 EA 3/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	116.43	16.85
23 05 23 00-0191 EA 1" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	143.63	19.14
23 05 23 00-0192 EA 1-1/4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	198.30	20.37
23 05 23 00-0193 EA 1-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	218.98	23.58
23 05 23 00-0194 EA 2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	278.55	27.87
23 05 23 00-0195 EA 2-1/2" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	469.97	37.64
23 05 23 00-0196 EA 3" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	548.65	43.70
23 05 23 00-0197 EA 4" Ethylene Propylene Diene Monomer (EPDM) Seals, Chlorinated Polyvinyl Chloride (CPVC), True Union, Ball Valve (George Fisher Type 560)	827.29	49.34
<b>23 05 23 00-0198 Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0161)</b>		
<b>23 05 23 00-0199 Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0198)</b>		
23 05 23 00-0200 EA 1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	74.03	15.31
23 05 23 00-0201 EA 3/8" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	76.37	15.31
23 05 23 00-0202 EA 1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	78.44	15.31
23 05 23 00-0203 EA 3/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	100.84	16.85
23 05 23 00-0204 EA 1" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	123.63	19.14
23 05 23 00-0205 EA 1-1/4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	149.39	20.37
23 05 23 00-0206 EA 1-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	179.26	23.58
23 05 23 00-0207 EA 2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	228.79	27.87
23 05 23 00-0208 EA 2-1/2" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	409.42	37.64
23 05 23 00-0209 EA 3" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	457.42	43.70
23 05 23 00-0210 EA 4" Socket, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	620.77	49.34
<b>23 05 23 00-0211 Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valves (23 05 23 00-0198)</b>		
23 05 23 00-0212 EA 1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	74.03	15.31
23 05 23 00-0213 EA 3/8" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	76.37	15.31
23 05 23 00-0214 EA 1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	78.44	15.31
23 05 23 00-0215 EA 3/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	100.84	16.85
23 05 23 00-0216 EA 1" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	123.63	19.14
23 05 23 00-0217 EA 1-1/4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	149.39	20.37
23 05 23 00-0218 EA 1-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	179.26	23.58
23 05 23 00-0219 EA 2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	228.79	27.87
23 05 23 00-0220 EA 2-1/2" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	409.42	37.64
23 05 23 00-0221 EA 3" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	457.42	43.70
23 05 23 00-0222 EA 4" Threaded, Viton Seal, Polyvinyl Chloride (PVC), True Union, Ball Valve	620.77	49.34
<b>23 05 23 00-0223 Three Piece Ball Valves (23 05 23 00-0066)</b>		
<b>23 05 23 00-0224 Threaded Or Sweated, Bronze Body, Three Piece Ball Valves (23 05 23 00-0223)</b>		
23 05 23 00-0225 EA 1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	110.22	15.31
For Work In Restricted Working Space, Add	13.38	
23 05 23 00-0226 EA 3/8" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	112.56	15.31
For Work In Restricted Working Space, Add	14.08	
23 05 23 00-0227 EA 1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	125.47	15.31
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0228 EA 3/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	159.93	16.85
For Work In Restricted Working Space, Add	19.97	
23 05 23 00-0229 EA 1" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve	203.20	19.14
For Work In Restricted Working Space, Add	24.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0230 EA 1-1/4" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	278.33 30.63	20.37
23 05 23 00-0231 EA 1-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	345.96 35.34	23.58
23 05 23 00-0232 EA 2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	552.62 41.76	27.87
23 05 23 00-0233 EA 2-1/2" Threaded Or Sweated, Bronze Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	1,165.33 61.24	39.97
<b>23 05 23 00-0234 Threaded, Carbon Steel Body, Three Piece Ball Valves</b> <small>(23 05 23 00-0223)</small>		
23 05 23 00-0235 EA 1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	126.06 13.38	15.31
23 05 23 00-0236 EA 3/8" Threaded, Carbon Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	137.57 14.08	15.31
23 05 23 00-0237 EA 1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	145.90 14.82	15.31
23 05 23 00-0238 EA 3/4" Threaded, Carbon Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	229.74 19.97	16.85
23 05 23 00-0239 EA 1" Threaded, Carbon Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	292.40 24.18	19.14
23 05 23 00-0240 EA 1-1/4" Threaded, Carbon Steel Body, Three Piece Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	437.77 30.63	20.37
23 05 23 00-0241 EA 1-1/2" Threaded, Carbon Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	554.01 35.34	23.58
23 05 23 00-0242 EA 2" Threaded, Carbon Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	716.97 41.76	27.87
<b>23 05 23 00-0243 Threaded, Stainless Steel Body, Three Piece Ball Valves</b> <small>(23 05 23 00-0223)</small>		
23 05 23 00-0244 EA 1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	308.01 13.38	15.31
23 05 23 00-0245 EA 3/8" Threaded, Stainless Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	329.97 14.08	15.31
23 05 23 00-0246 EA 1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	347.79 14.82	15.31
23 05 23 00-0247 EA 3/4" Threaded, Stainless Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	503.35 19.97	16.85
23 05 23 00-0248 EA 1" Threaded, Stainless Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	613.51 24.18	19.14
23 05 23 00-0249 EA 1-1/4" Threaded, Stainless Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	718.43 30.63	20.37
23 05 23 00-0250 EA 1-1/2" Threaded, Stainless Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	957.53 35.34	23.58
23 05 23 00-0251 EA 2" Threaded, Stainless Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	1,242.83 41.76	27.87
23 05 23 00-0252 EA 3" Threaded, Stainless Steel Body, Three Piece Ball Valve ..... <i>For Work In Restricted Working Space, Add</i>	3,236.59 70.68	47.47
<b>23 05 23 00-0253 Globe Valves</b> <small>(23 05 23)</small>		
<b>23 05 23 00-0254 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves</b> <small>(23 05 23 00-0253)</small>		
23 05 23 00-0255 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve ..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.81 11.29 13.84 16.38 20.03 14.82	15.31
23 05 23 00-0256 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve ..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.00 11.29 13.84 16.38 20.03 13.38	15.31
23 05 23 00-0257 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve ..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.28 16.85 20.65 24.46 29.89 14.08	15.31
23 05 23 00-0258 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve ..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	103.75 16.85 20.65 24.46 29.89 79.55 14.82	15.31
23 05 23 00-0259 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve ..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.48 18.26 22.39 26.51 32.40 91.43 19.97	16.08

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0260 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	160.22	16.08
For 150 LB Rating, Add	24.68	
For 200 LB Rating, Add	30.26	
For 250 LB Rating, Add	35.83	
For 300 LB Rating, Add	43.79	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	119.82	
For Work In Restricted Working Space, Add	24.18	
23 05 23 00-0261 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	239.60	20.37
For 150 LB Rating, Add	42.63	
For 200 LB Rating, Add	52.25	
For 250 LB Rating, Add	61.88	
For 300 LB Rating, Add	75.63	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	192.10	
For Work In Restricted Working Space, Add	30.63	
23 05 23 00-0262 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	314.32	23.58
For 150 LB Rating, Add	60.92	
For 200 LB Rating, Add	74.68	
For 250 LB Rating, Add	88.44	
For 300 LB Rating, Add	108.09	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	263.30	
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0263 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	370.25	27.87
For 150 LB Rating, Add	71.62	
For 200 LB Rating, Add	87.80	
For 250 LB Rating, Add	103.97	
For 300 LB Rating, Add	127.07	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	309.83	
For Work In Restricted Working Space, Add	41.76	
23 05 23 00-0264 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	420.90	37.64
For 150 LB Rating, Add	72.21	
For 200 LB Rating, Add	88.51	
For 250 LB Rating, Add	104.82	
For 300 LB Rating, Add	128.11	
For Work In Restricted Working Space, Add	56.39	
23 05 23 00-0265 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB .....	738.76	43.70
For 150 LB Rating, Add	161.78	
For 200 LB Rating, Add	198.31	
For 250 LB Rating, Add	234.84	
For 300 LB Rating, Add	287.03	
For Work In Restricted Working Space, Add	65.07	
<b>23 05 23 00-0266 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0253)</b>		
23 05 23 00-0267 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	545.13	27.87
For 150 LB Rating, Add	125.84	
For 200 LB Rating, Add	154.25	
For 250 LB Rating, Add	182.66	
For 300 LB Rating, Add	223.26	
For Chain Operated Type, Add	338.94	
For Work In Restricted Working Space, Add	41.76	
23 05 23 00-0268 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	679.99	37.64
For 150 LB Rating, Add	152.53	
For 200 LB Rating, Add	186.97	
For 250 LB Rating, Add	221.41	
For 300 LB Rating, Add	270.61	
For Chain Operated Type, Add	410.84	
For Work In Restricted Working Space, Add	56.39	
23 05 23 00-0269 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	807.31	43.70
For 150 LB Rating, Add	183.03	
For 200 LB Rating, Add	224.36	
For 250 LB Rating, Add	265.69	
For 300 LB Rating, Add	324.73	
For Chain Operated Type, Add	493.00	
For Work In Restricted Working Space, Add	65.07	
23 05 23 00-0270 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	1,033.87	49.34
For 150 LB Rating, Add	244.04	
For 200 LB Rating, Add	299.15	
For 250 LB Rating, Add	354.25	
For 300 LB Rating, Add	432.98	
For Chain Operated Type, Add	657.34	
For Work In Restricted Working Space, Add	73.99	
<b>23 05 23 00-0271 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0253)</b>		
23 05 23 00-0272 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	526.12	204.13
For 150 LB Rating, Add	83.98	
For 250 LB Rating, Add	121.91	
For Chain Operated Type, Add	135.45	
For Work In Restricted Working Space, Add	76.57	
23 05 23 00-0273 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	586.57	204.42
For 150 LB Rating, Add	102.37	
For 250 LB Rating, Add	148.61	
For Chain Operated Type, Add	165.12	
For Work In Restricted Working Space, Add	76.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0274 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	696.25	239.67
For 150 LB Rating, Add	122.85	
For 250 LB Rating, Add	178.33	
For Chain Operated Type, Add	198.15	
For Work In Restricted Working Space, Add	89.99	
23 05 23 00-0275 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	1,031.88	401.80
For 150 LB Rating, Add	163.80	
For 250 LB Rating, Add	237.77	
For Chain Operated Type, Add	264.19	
For Work In Restricted Working Space, Add	151.05	
23 05 23 00-0276 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	1,239.90	404.73
For 150 LB Rating, Add	227.78	
For 250 LB Rating, Add	330.65	
For Chain Operated Type, Add	367.39	
For Work In Restricted Working Space, Add	151.54	
23 05 23 00-0277 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	1,492.93	449.69
For 150 LB Rating, Add	287.93	
For 250 LB Rating, Add	417.96	
For Chain Operated Type, Add	464.40	
For Work In Restricted Working Space, Add	169.24	
23 05 23 00-0278 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	2,142.09	574.61
For 150 LB Rating, Add	442.77	
For 250 LB Rating, Add	642.73	
For Chain Operated Type, Add	714.15	
For Work In Restricted Working Space, Add	214.14	
23 05 23 00-0279 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	3,049.85	699.52
For 150 LB Rating, Add	674.39	
For 250 LB Rating, Add	978.95	
For Chain Operated Type, Add	1,087.73	
For Work In Restricted Working Space, Add	262.32	
23 05 23 00-0280 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	5,176.43	849.42
For 150 LB Rating, Add	1,276.13	
For 250 LB Rating, Add	1,852.45	
For Chain Operated Type, Add	2,058.28	
For Work In Restricted Working Space, Add	317.96	
<b>23 05 23 00-0281 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves (23 05 23 00-0253)</b>		
23 05 23 00-0282 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....	76.98	15.31
For 150 LB Rating, Add	8.55	
For 200 LB Rating, Add	10.48	
For 300 LB Rating, Add	15.17	
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0283 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....	72.17	15.31
For 150 LB Rating, Add	8.55	
For 200 LB Rating, Add	10.48	
For 300 LB Rating, Add	15.17	
For Work In Restricted Working Space, Add	13.38	
23 05 23 00-0284 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....	74.51	15.31
For 150 LB Rating, Add	8.55	
For 200 LB Rating, Add	10.48	
For 300 LB Rating, Add	15.17	
For Work In Restricted Working Space, Add	14.08	
23 05 23 00-0285 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....	78.82	15.31
For 150 LB Rating, Add	9.12	
For 200 LB Rating, Add	11.18	
For 300 LB Rating, Add	16.18	
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0286 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....	107.36	16.08
For 150 LB Rating, Add	12.64	
For 200 LB Rating, Add	15.50	
For 300 LB Rating, Add	22.43	
For Work In Restricted Working Space, Add	19.97	
23 05 23 00-0287 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....	134.13	16.08
For 150 LB Rating, Add	16.59	
For 200 LB Rating, Add	20.34	
For 300 LB Rating, Add	29.44	
For Work In Restricted Working Space, Add	24.18	
23 05 23 00-0288 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....	181.61	20.37
For 150 LB Rating, Add	24.65	
For 200 LB Rating, Add	30.22	
For 300 LB Rating, Add	43.74	
For Work In Restricted Working Space, Add	30.63	
23 05 23 00-0289 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....	210.50	23.58
For 150 LB Rating, Add	28.74	
For 200 LB Rating, Add	35.23	
For 300 LB Rating, Add	50.99	
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0290 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....	278.85	27.87
For 150 LB Rating, Add	43.29	
For 200 LB Rating, Add	53.06	
For 300 LB Rating, Add	76.80	
For Work In Restricted Working Space, Add	41.76	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0291 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	456.07	40.88
For 150 LB Rating, Add	78.09	
For 200 LB Rating, Add	95.72	
For 300 LB Rating, Add	138.54	
For Work In Restricted Working Space, Add	61.25	
23 05 23 00-0292 EA 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve.....	662.17	47.47
For 150 LB Rating, Add	132.24	
For 200 LB Rating, Add	162.10	
For 300 LB Rating, Add	234.62	
For Work In Restricted Working Space, Add	70.68	
<b>23 05 23 00-0293 Flanged, 125 LB, Iron Body, Angle Globe Valves (23 05 23 00-0253)</b>		
23 05 23 00-0294 EA 2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	952.20	204.13
For 250 LB Rating, Add	418.19	
For Chain Operated Type, Add	271.82	
For Work In Restricted Working Space, Add	76.57	
23 05 23 00-0295 EA 2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,080.63	204.42
For 250 LB Rating, Add	494.58	
For Chain Operated Type, Add	321.48	
For Work In Restricted Working Space, Add	76.90	
23 05 23 00-0296 EA 3" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,271.33	239.67
For 250 LB Rating, Add	582.82	
For Chain Operated Type, Add	378.83	
For Work In Restricted Working Space, Add	89.99	
23 05 23 00-0297 EA 4" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,890.89	401.80
For 250 LB Rating, Add	832.43	
For Chain Operated Type, Add	541.08	
For Work In Restricted Working Space, Add	151.05	
23 05 23 00-0298 EA 5" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	2,991.59	404.73
For 250 LB Rating, Add	1,491.88	
For Chain Operated Type, Add	969.72	
For Work In Restricted Working Space, Add	151.54	
23 05 23 00-0299 EA 6" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	3,050.60	449.69
For 250 LB Rating, Add	1,491.88	
For Chain Operated Type, Add	969.72	
For Work In Restricted Working Space, Add	169.24	
23 05 23 00-0300 EA 8" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	5,580.32	574.61
For 250 LB Rating, Add	2,919.91	
For Chain Operated Type, Add	1,897.94	
For Work In Restricted Working Space, Add	214.14	
<b>23 05 23 00-0301 Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves (23 05 23 00-0253)</b>		
Note: 800 PSIG at 850 degrees F.		
23 05 23 00-0302 EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	221.00	24.81
For Work In Restricted Working Space, Add	13.38	
23 05 23 00-0303 EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	225.81	24.81
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0304 EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	267.26	33.38
For Work In Restricted Working Space, Add	19.97	
23 05 23 00-0305 EA 1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	329.84	40.27
For Work In Restricted Working Space, Add	24.18	
23 05 23 00-0306 EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	529.36	50.99
For Work In Restricted Working Space, Add	30.63	
23 05 23 00-0307 EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	634.08	58.96
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0308 EA 2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve.....	804.40	69.67
For Work In Restricted Working Space, Add	41.76	
<b>23 05 23 00-0309 Triple Duty Valves (23 05 23)</b>		
Note: Valves function as a shut-off, check valve and calibrated balancing valve.		
<b>23 05 23 00-0310 Straight Pattern, Triple Duty Valves (23 05 23 00-0309)</b>		
Note: Bell & Gossett 3DX and 3DS-S Series.		
23 05 23 00-0311 EA 1" Threaded, Straight Pattern, Triple Duty Valve.....	326.41	16.08
23 05 23 00-0312 EA 1-1/4" Threaded, Straight Pattern, Triple Duty Valve.....	380.33	20.37
23 05 23 00-0313 EA 1-1/2" Threaded, Straight Pattern, Triple Duty Valve.....	414.65	23.58
23 05 23 00-0314 EA 2" Flanged, Straight Pattern, Triple Duty Valve.....	1,062.40	204.13
23 05 23 00-0315 EA 2-1/2" Flanged, Straight Pattern, Triple Duty Valve.....	1,188.76	204.42
23 05 23 00-0316 EA 3" Flanged, Straight Pattern, Triple Duty Valve.....	1,306.61	239.67
23 05 23 00-0317 EA 4" Flanged, Straight Pattern, Triple Duty Valve.....	2,646.70	401.80
23 05 23 00-0318 EA 5" Flanged, Straight Pattern Triple Duty Valve.....	3,033.35	404.73
23 05 23 00-0319 EA 6" Flanged, Straight Pattern, Triple Duty Valve.....	4,015.52	449.69
23 05 23 00-0320 EA 8" Flanged, Straight Pattern, Triple Duty Valve.....	5,399.15	574.61
23 05 23 00-0321 EA 10" Flanged, Straight Pattern, Triple Duty Valve.....	8,612.19	699.52
<b>23 05 23 00-0322 Flanged, Angle Pattern, Triple Duty Valves (23 05 23 00-0309)</b>		
Note: Bell & Gossett 3D-S Series.		
23 05 23 00-0323 EA 2" Flanged, Angle Pattern, Triple Duty Valve.....	1,039.20	204.13
23 05 23 00-0324 EA 2-1/2" Flanged, Angle Pattern, Triple Duty Valve.....	1,160.93	204.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0325 EA 3" Flanged, Angle Pattern, Triple Duty Valve.....	1,283.42	239.67
23 05 23 00-0326 EA 4" Flanged, Angle Pattern, Triple Duty Valve.....	2,586.39	401.80
23 05 23 00-0327 EA 5" Flanged, Angle Pattern, Triple Duty Valve.....	2,959.13	404.73
23 05 23 00-0328 EA 6" Flanged, Angle Pattern, Triple Duty Valve.....	3,319.67	449.69
23 05 23 00-0329 EA 8" Flanged, Angle Pattern, Triple Duty Valve.....	5,069.78	574.61
23 05 23 00-0330 EA 10" Flanged, Angle Pattern, Triple Duty Valve.....	6,761.24	699.52
<b>23 05 23 00-0331</b>		
<b>Balanced, Straight Pattern, Triple Duty Valves</b> (23 05 23 00-0309)		
Note: Bell & Gossett 3DS-B Series.		
23 05 23 00-0332 EA 3" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,204.56	239.67
23 05 23 00-0333 EA 4" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,377.64	401.80
23 05 23 00-0334 EA 5" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,722.54	404.73
23 05 23 00-0335 EA 6" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	3,593.37	449.69
23 05 23 00-0336 EA 8" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	4,823.92	574.61
23 05 23 00-0337 EA 10" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	7,651.92	699.52
23 05 23 00-0338 EA 12" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	11,470.00	849.42
23 05 23 00-0339 EA 14" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	13,933.81	999.31
23 05 23 00-0340 EA 16" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	17,421.16	1,099.25
<b>23 05 23 00-0341</b>		
<b>Grooved Straight Pattern, Triple Duty Valves</b> (23 05 23 00-0309)		
Note: Bell & Gossett 3DS-G Series.		
23 05 23 00-0342 EA 2" Grooved, Straight Pattern, Triple Duty Valve.....	1,076.46	37.83
23 05 23 00-0343 EA 2-1/2" Grooved, Straight Pattern, Triple Duty Valve.....	1,283.51	45.11
23 05 23 00-0344 EA 3" Grooved, Straight Pattern, Triple Duty Valve.....	1,492.83	48.92
23 05 23 00-0345 EA 4" Grooved, Straight Pattern, Triple Duty Valve.....	2,468.71	52.72
23 05 23 00-0346 EA 5" Grooved, Straight Pattern, Triple Duty Valve.....	2,855.12	63.71
23 05 23 00-0347 EA 6" Grooved, Straight Pattern Triple Duty Valve.....	3,805.74	81.69
23 05 23 00-0348 EA 8" Grooved, Straight Pattern Triple Duty Valve.....	5,174.24	103.68
23 05 23 00-0349 EA 10" Grooved, Straight Pattern Triple Duty Valve.....	8,153.89	116.17
23 05 23 00-0350 EA 12" Grooved, Straight Pattern Triple Duty Valve.....	12,935.66	141.65
<b>23 05 23 00-0351</b>		
<b>Plug Valves</b> (23 05 23)		
<b>23 05 23 00-0352</b>		
<b>Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated</b> (23 05 23 00-0351)		
Note: Includes wrench.		
23 05 23 00-0353 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	307.44	15.31
23 05 23 00-0354 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	324.61	16.85
23 05 23 00-0355 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	409.73	19.14
23 05 23 00-0356 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	491.78	20.37
23 05 23 00-0357 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	541.71	23.58
23 05 23 00-0358 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	639.48	27.87
23 05 23 00-0359 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	954.18	37.64
23 05 23 00-0360 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	1,164.78	43.70
<b>23 05 23 00-0361</b>		
<b>Plug Valves, Lubricated, Semisteel Flanged</b> (23 05 23 00-0351)		
Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0362 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	544.51	204.13
23 05 23 00-0363 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	637.39	204.42
23 05 23 00-0364 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	778.78	239.67
23 05 23 00-0365 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	1,151.90	401.80
23 05 23 00-0366 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	2,293.86	449.69
23 05 23 00-0367 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	3,830.11	574.61
23 05 23 00-0368 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	6,067.58	699.52
23 05 23 00-0369 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	8,942.42	849.42
<b>23 05 23 00-0370</b>		
<b>Plug Valves, Forged Steel, Screwed</b> (23 05 23 00-0351)		
23 05 23 00-0371 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,153.12	15.31
23 05 23 00-0372 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,364.21	16.85
23 05 23 00-0373 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,543.44	19.14
23 05 23 00-0374 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,853.03	20.37
23 05 23 00-0375 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,157.63	23.58
23 05 23 00-0376 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,835.05	27.87
<b>23 05 23 00-0377</b>		
<b>Plug Valves, Eccentric, Cast Iron Flanged</b> (23 05 23 00-0351)		
23 05 23 00-0378 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,286.38	401.80
23 05 23 00-0379 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,906.57	449.69
23 05 23 00-0380 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	2,585.01	574.61
23 05 23 00-0381 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	3,644.00	699.52
23 05 23 00-0382 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	4,694.47	849.42
<b>23 05 23 00-0383</b>		
<b>Foot Valves</b> (23 05 23)		
<b>23 05 23 00-0384</b>		
<b>Single Poppet Foot Valves, Metal To Metal Seat Construction</b> (23 05 23 00-0383)		
23 05 23 00-0385 EA 1" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	114.77	38.29

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0386 EA 1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	130.08	42.89
23 05 23 00-0387 EA 1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	163.80	49.02
23 05 23 00-0388 EA 2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	211.87	55.14
23 05 23 00-0389 EA 2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	467.77	90.38
23 05 23 00-0390 EA 3" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	595.52	110.28
<b>23 05 23 00-0391 Double Poppet Foot Valves, Metal To Metal Seat Construction (23 05 23 00-0383)</b>		
23 05 23 00-0392 EA 1" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	114.77	38.29
23 05 23 00-0393 EA 1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	228.19	42.89
23 05 23 00-0394 EA 1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	220.40	49.02
23 05 23 00-0395 EA 2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	294.84	55.14
23 05 23 00-0396 EA 3" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	570.65	90.38
23 05 23 00-0397 EA 4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	770.08	108.76
<b>23 05 23 00-0398 Float Valves (23 05 23)</b>		
<b>23 05 23 00-0399 Float Valve Assembly For Maintaining Liquid Level In Tanks (23 05 23 00-0398)</b>		
<b>23 05 23 00-0400 Single Seat, Bronze Construction (23 05 23 00-0399)</b>		
Note: For storage tanks, reservoirs, cooling towers and filtration plants.		
23 05 23 00-0401 EA Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve.....	241.68	32.16
23 05 23 00-0402 EA Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve.....	277.67	38.28
23 05 23 00-0403 EA Inlet Size 1", Maximum PSI 100, Single Seat Float Valve.....	356.26	41.34
23 05 23 00-0404 EA Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve.....	587.20	52.06
23 05 23 00-0405 EA Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve.....	602.52	59.72
<b>23 05 23 00-0406 Double Seat, Bronze Construction (23 05 23 00-0399)</b>		
Note: For hot or cold water or oil to open tanks.		
23 05 23 00-0407 EA Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve.....	1,234.72	32.16
23 05 23 00-0408 EA Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve.....	1,246.98	38.28
23 05 23 00-0409 EA Pipe Size 1" Maximum PSI 150, Double Seat Float Valve.....	1,437.78	41.34
23 05 23 00-0410 EA Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve.....	1,592.21	52.06
23 05 23 00-0411 EA Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve.....	1,820.33	59.72
23 05 23 00-0412 EA Pipe Size 2" Maximum PSI 150, Double Seat Float Valve.....	2,384.42	70.44
23 05 23 00-0413 EA Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve.....	2,778.37	94.45
23 05 23 00-0414 EA Pipe Size 3" Maximum PSI 150, Double Seat Float Valve.....	3,339.98	108.55
<b>23 05 23 00-0415 Float Valve Single Seated Balanced For Air Oil Or Water (23 05 23 00-0398)</b>		
Note: Includes arm, ball and bracket.		
<b>23 05 23 00-0416 Brass Body Threaded Ends (23 05 23 00-0415)</b>		
23 05 23 00-0417 EA 1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	266.76	41.50
23 05 23 00-0418 EA 3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	301.08	46.09
23 05 23 00-0419 EA 1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	368.80	50.99
23 05 23 00-0420 EA 1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	590.07	82.39
23 05 23 00-0421 EA 1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	623.13	93.87
23 05 23 00-0422 EA 2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	708.70	116.38
<b>23 05 23 00-0423 Cast Iron Body Flanged (23 05 23 00-0415)</b>		
23 05 23 00-0424 EA 2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	7,735.79	204.42
23 05 23 00-0425 EA 3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	9,351.54	239.67
<b>23 05 23 00-0426 Float Operated Valves (23 05 23 00-0398)</b>		
<b>23 05 23 00-0427 For Condensate Receivers Tanks And Vessels (23 05 23 00-0426)</b>		
Note: Cast iron body, self-contained, float in-line mount.		
23 05 23 00-0428 EA 1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	889.05	71.97
<b>23 05 23 00-0429 For Condensate Receivers Tanks And Vessels (23 05 23 00-0426)</b>		
Note: Cast iron body, external float tank mount, flanged.		
23 05 23 00-0430 EA 3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	1,138.37	133.93
<b>23 05 23 00-0431 Needle Valves (23 05 23)</b>		
<b>23 05 23 00-0432 Bronze Needle Valve (23 05 23 00-0431)</b>		
Note: For heating and cooling applications.		
23 05 23 00-0433 EA 1/4" Needle Valve, Bronze.....	128.43	15.31
23 05 23 00-0434 EA 3/8" Needle Valve, Bronze.....	142.59	15.31
23 05 23 00-0435 EA 1/2" Needle Valve, Bronze.....	155.54	15.31
23 05 23 00-0436 EA 3/4" Needle Valve, Bronze.....	234.21	16.85
23 05 23 00-0437 EA 1" Needle Valve, Bronze.....	354.05	19.14
<b>23 05 23 00-0438 Eccentric Valves With Taps (23 05 23)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 23 00-0439</b> <b>Screwed Eccentric Valves With Taps</b> <small>(23 05 23 00-0438)</small>		
23 05 23 00-0440    EA    1/2" Diameter Eccentric Valves With Taps, Screwed.....	512.17	15.31
23 05 23 00-0441    EA    3/4" Diameter Eccentric Valves With Taps, Screwed.....	536.46	16.85
23 05 23 00-0442    EA    1" Diameter Eccentric Valves With Taps, Screwed.....	678.65	19.14
23 05 23 00-0443    EA    1-1/4" Diameter Eccentric Valves With Taps, Screwed.....	821.17	20.37
23 05 23 00-0444    EA    1-1/2" Diameter Eccentric Valves With Taps, Screwed.....	893.83	23.58
23 05 23 00-0445    EA    2" Diameter Eccentric Valves With Taps, Screwed.....	1,050.52	27.87
23 05 23 00-0446    EA    2-1/2" Diameter Eccentric Valves With Taps, Screwed.....	1,597.65	37.64
23 05 23 00-0447    EA    3" Diameter Eccentric Valves With Taps, Screwed.....	1,946.95	43.70
<b>23 05 23 00-0448</b> <b>Flanged Eccentric Valves With Taps</b> <small>(23 05 23 00-0438)</small>		
23 05 23 00-0449    EA    2-1/2" Diameter Eccentric Valves With Taps, Flanged.....	1,929.44	204.42
23 05 23 00-0450    EA    3" Diameter Eccentric Valves With Taps, Flanged.....	2,293.45	239.67
23 05 23 00-0451    EA    4" Diameter Eccentric Valves With Taps, Flanged.....	3,030.96	401.80
23 05 23 00-0452    EA    5" Diameter Eccentric Valves With Taps, Flanged.....	4,064.92	404.73
23 05 23 00-0453    EA    6" Diameter Eccentric Valves With Taps, Flanged.....	5,191.87	449.69
23 05 23 00-0454    EA    8" Diameter Eccentric Valves With Taps, Flanged.....	9,079.33	574.61
23 05 23 00-0455    EA    10" Diameter Eccentric Valves With Taps, Flanged.....	12,799.73	699.52
23 05 23 00-0456    EA    12" Diameter Eccentric Valves With Taps, Flanged.....	22,240.69	849.42
<b>23 05 23 00-0457</b> <b>Check Valves</b> <small>(23 05 23)</small>		
<b>23 05 23 00-0458</b> <b>Iron Body Wafer Type Check Valve</b> <small>(23 05 23 00-0457)</small>		
<b>23 05 23 00-0459</b> <b>Single Disk Type</b> <small>(23 05 23 00-0458)</small>		
23 05 23 00-0460    EA    2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	538.80	204.19
For 150 LB Rating, Add.....	59.54	
For 200 LB Rating, Add.....	70.88	
For 300 LB Rating, Add.....	85.05	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	178.64	
23 05 23 00-0461    EA    2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	627.88	204.51
For 150 LB Rating, Add.....	78.00	
For 200 LB Rating, Add.....	92.86	
For 300 LB Rating, Add.....	111.43	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	218.44	
23 05 23 00-0462    EA    3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	769.59	239.77
For 150 LB Rating, Add.....	98.60	
For 200 LB Rating, Add.....	117.38	
For 300 LB Rating, Add.....	140.85	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	271.29	
23 05 23 00-0463    EA    4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,139.61	401.96
For 150 LB Rating, Add.....	133.54	
For 200 LB Rating, Add.....	158.98	
For 300 LB Rating, Add.....	190.77	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	386.90	
23 05 23 00-0464    EA    6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,701.24	564.16
For 150 LB Rating, Add.....	209.17	
For 200 LB Rating, Add.....	249.01	
For 300 LB Rating, Add.....	298.81	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	589.26	
23 05 23 00-0465    EA    8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	2,336.57	648.78
For 150 LB Rating, Add.....	320.99	
For 200 LB Rating, Add.....	382.14	
For 300 LB Rating, Add.....	458.56	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	849.45	
23 05 23 00-0466    EA    10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	3,435.88	789.81
For 150 LB Rating, Add.....	512.69	
For 200 LB Rating, Add.....	610.35	
For 300 LB Rating, Add.....	732.41	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	1,297.52	
<b>23 05 23 00-0467</b> <b>Twin Disc Type</b> <small>(23 05 23 00-0458)</small>		
23 05 23 00-0468    EA    2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	712.19	204.19
For 150 LB Rating, Add.....	95.95	
For 200 LB Rating, Add.....	114.22	
For 300 LB Rating, Add.....	137.07	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	256.66	
23 05 23 00-0469    EA    2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	804.76	204.51
For 150 LB Rating, Add.....	115.15	
For 200 LB Rating, Add.....	137.08	
For 300 LB Rating, Add.....	164.50	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	298.03	
23 05 23 00-0470    EA    3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	939.85	239.77
For 150 LB Rating, Add.....	134.35	
For 200 LB Rating, Add.....	159.94	
For 300 LB Rating, Add.....	191.93	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add.....	347.91	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0471 EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,316.16 170.61 203.11 243.74 466.34	401.96
23 05 23 00-0472 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	2,015.30 275.12 327.53 393.03 730.59	564.16
23 05 23 00-0473 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	2,806.69 420.16 500.19 600.23 1,061.53	648.78
23 05 23 00-0474 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	4,156.25 665.40 792.15 950.57 1,623.40	775.71
23 05 23 00-0475 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	5,440.46 891.49 1,061.30 1,273.56 2,149.39	959.06
23 05 23 00-0476 EA 14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	10,082.97 1,812.82 2,158.12 2,589.74 4,174.71	1,087.89
23 05 23 00-0477 EA 16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	13,782.59 2,559.27 3,046.76 3,656.11 5,803.27	1,276.45
23 05 23 00-0478 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	18,319.72 3,474.84 4,136.72 4,964.06 7,800.66	1,421.50
23 05 23 00-0479 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	21,782.46 4,155.48 4,947.00 5,936.40 9,303.49	1,595.57
23 05 23 00-0480 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB..... <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	28,455.46 5,460.16 6,500.19 7,800.23 12,191.28	1,958.19
<b>23 05 23 00-0481 Lift Check Valves (23 05 23 00-0457)</b>		
<b>23 05 23 00-0482 Bronze Body, Threaded, Vertical Lift Check Valves (23 05 23 00-0481)</b> Note: Watts #600 series.		
23 05 23 00-0483 EA 3/8" Lift Check Valve, Bronze, Threaded.....	132.39	15.31
23 05 23 00-0484 EA 1/2" Lift Check Valve, Bronze, Threaded.....	140.03	15.31
23 05 23 00-0485 EA 3/4" Lift Check Valve, Bronze, Threaded.....	179.45	16.08
23 05 23 00-0486 EA 1" Lift Check Valve, Bronze, Threaded.....	234.65	16.08
23 05 23 00-0487 EA 1-1/4" Lift Check Valve, Bronze, Threaded.....	322.90	20.37
23 05 23 00-0488 EA 1-1/2" Lift Check Valve, Bronze, Threaded.....	391.20	23.58
23 05 23 00-0489 EA 2" Lift Check Valve, Bronze, Threaded.....	550.30	27.87
<b>23 05 23 00-0490 Bronze Body, Threaded, 300 LB, Lift Check Valves (23 05 23 00-0481)</b> Note: Crane 366E.		
23 05 23 00-0491 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	759.26	15.31
23 05 23 00-0492 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	923.92	16.08
23 05 23 00-0493 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,647.85	16.08
23 05 23 00-0494 EA 1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,194.82	20.37
23 05 23 00-0495 EA 1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	2,385.70	23.58
23 05 23 00-0496 EA 2" Lift Check Valve, Bronze, Threaded, 300 LB.....	3,061.62	27.87
<b>23 05 23 00-0497 Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0481)</b> Note: Mueller 105MAP.		
23 05 23 00-0498 EA 2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,155.08	204.13
23 05 23 00-0499 EA 2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,257.38	204.42
23 05 23 00-0500 EA 3" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,379.32	239.67
23 05 23 00-0501 EA 4" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,954.00	401.80
23 05 23 00-0502 EA 5" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,371.02	404.73
23 05 23 00-0503 EA 6" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,901.61	449.69
23 05 23 00-0504 EA 8" Lift Check Valve, Iron Body, Flanged, 125 LB.....	4,992.09	574.61
23 05 23 00-0505 EA 10" Lift Check Valve, Iron Body, Flanged, 125 LB.....	6,261.00	699.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0506 EA 12" Lift Check Valve, Iron Body, Flanged, 125 LB .....	10,021.65	849.42
23 05 23 00-0507 EA 14" Lift Check Valve, Iron Body, Flanged, 125 LB .....	13,629.08	1,135.21
23 05 23 00-0508 EA 16" Lift Check Valve, Iron Body, Flanged, 125 LB .....	15,098.90	1,248.73
<b>23 05 23 00-0509 Bronze Body Swing Check Valves (23 05 23 00-0457)</b>		
<b>23 05 23 00-0510 Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0509)</b>		
23 05 23 00-0511 EA 1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	94.27	15.31
<i>For 300 LB Rating, Add</i>	17.50	
<i>For Work In Restricted Working Space, Add</i>	14.82	
23 05 23 00-0512 EA 1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	89.46	15.31
<i>For 300 LB Rating, Add</i>	17.50	
<i>For Work In Restricted Working Space, Add</i>	13.38	
23 05 23 00-0513 EA 3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	91.80	15.31
<i>For 300 LB Rating, Add</i>	17.50	
<i>For Work In Restricted Working Space, Add</i>	14.08	
23 05 23 00-0514 EA 1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	96.02	15.31
<i>For 300 LB Rating, Add</i>	18.18	
<i>For Work In Restricted Working Space, Add</i>	14.82	
23 05 23 00-0515 EA 3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	123.06	16.08
<i>For 300 LB Rating, Add</i>	22.03	
<i>For Work In Restricted Working Space, Add</i>	19.97	
23 05 23 00-0516 EA 1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	157.31	16.08
<i>For 300 LB Rating, Add</i>	29.92	
<i>For Work In Restricted Working Space, Add</i>	24.18	
23 05 23 00-0517 EA 1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	209.76	20.37
<i>For 300 LB Rating, Add</i>	41.99	
<i>For Work In Restricted Working Space, Add</i>	30.63	
23 05 23 00-0518 EA 1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	268.57	23.58
<i>For 300 LB Rating, Add</i>	58.80	
<i>For Work In Restricted Working Space, Add</i>	35.34	
23 05 23 00-0519 EA 2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	333.07	27.87
<i>For 300 LB Rating, Add</i>	75.61	
<i>For Work In Restricted Working Space, Add</i>	41.76	
23 05 23 00-0520 EA 2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	633.62	37.64
<i>For 300 LB Rating, Add</i>	173.80	
<i>For Work In Restricted Working Space, Add</i>	56.39	
23 05 23 00-0521 EA 3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	850.71	43.70
<i>For 300 LB Rating, Add</i>	247.19	
<i>For Work In Restricted Working Space, Add</i>	65.07	
23 05 23 00-0522 EA 4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	963.95	49.34
<i>For 300 LB Rating, Add</i>	279.72	
<i>For Work In Restricted Working Space, Add</i>	74.01	
<b>23 05 23 00-0523 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0457)</b>		
23 05 23 00-0524 EA 1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	429.86	114.85
<i>For 150 LB Rating, Add</i>	194.07	
<i>For 250 LB Rating, Add</i>	371.01	
<i>For Work In Restricted Working Space, Add</i>	43.34	
23 05 23 00-0525 EA 1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	480.86	133.99
<i>For 150 LB Rating, Add</i>	213.81	
<i>For 250 LB Rating, Add</i>	408.75	
<i>For Work In Restricted Working Space, Add</i>	49.93	
23 05 23 00-0526 EA 1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	542.50	160.79
<i>For 150 LB Rating, Add</i>	231.89	
<i>For 250 LB Rating, Add</i>	443.33	
<i>For Work In Restricted Working Space, Add</i>	60.44	
23 05 23 00-0527 EA 2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	678.76	204.13
<i>For 150 LB Rating, Add</i>	288.01	
<i>For 250 LB Rating, Add</i>	550.60	
<i>For Work In Restricted Working Space, Add</i>	76.57	
23 05 23 00-0528 EA 2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	750.63	204.42
<i>For 150 LB Rating, Add</i>	336.12	
<i>For 250 LB Rating, Add</i>	642.59	
<i>For Work In Restricted Working Space, Add</i>	76.90	
23 05 23 00-0529 EA 3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	837.11	239.67
<i>For 150 LB Rating, Add</i>	365.26	
<i>For 250 LB Rating, Add</i>	698.30	
<i>For Work In Restricted Working Space, Add</i>	89.99	
23 05 23 00-0530 EA 4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	1,333.64	401.80
<i>For 150 LB Rating, Add</i>	564.50	
<i>For 250 LB Rating, Add</i>	1,079.18	
<i>For Work In Restricted Working Space, Add</i>	151.05	
23 05 23 00-0531 EA 5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	1,723.92	404.73
<i>For 150 LB Rating, Add</i>	828.78	
<i>For 250 LB Rating, Add</i>	1,584.44	
<i>For Work In Restricted Working Space, Add</i>	151.54	
23 05 23 00-0532 EA 6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	1,977.28	449.69
<i>For 150 LB Rating, Add</i>	960.94	
<i>For 250 LB Rating, Add</i>	1,837.10	
<i>For Work In Restricted Working Space, Add</i>	169.24	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0533 EA 8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	4,241.92	574.61
For 150 LB Rating, Add	2,399.12	
For 250 LB Rating, Add	4,586.56	
For Work In Restricted Working Space, Add	214.14	
23 05 23 00-0534 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	5,676.92	699.52
For 150 LB Rating, Add	3,265.71	
For 250 LB Rating, Add	6,243.28	
For Work In Restricted Working Space, Add	262.32	
23 05 23 00-0535 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	8,549.18	849.42
For 150 LB Rating, Add	5,092.72	
For 250 LB Rating, Add	9,736.09	
For Work In Restricted Working Space, Add	317.96	
23 05 23 00-0536 EA 14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	9,897.92	1,135.21
For 150 LB Rating, Add	5,765.66	
For 250 LB Rating, Add	11,022.58	
For Work In Restricted Working Space, Add	425.70	
23 05 23 00-0537 EA 16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	13,910.38	1,248.73
For 150 LB Rating, Add	8,397.64	
For 250 LB Rating, Add	16,054.31	
For Work In Restricted Working Space, Add	468.27	
23 05 23 00-0538 EA 18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	21,141.09	1,384.96
For 150 LB Rating, Add	13,198.73	
For 250 LB Rating, Add	25,232.87	
For Work In Restricted Working Space, Add	519.36	
23 05 23 00-0539 EA 20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	28,966.46	1,560.91
For 150 LB Rating, Add	18,370.42	
For 250 LB Rating, Add	35,119.92	
For Work In Restricted Working Space, Add	585.34	
23 05 23 00-0540 EA 24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	40,214.34	1,915.67
For 150 LB Rating, Add	25,717.44	
For 250 LB Rating, Add	49,165.69	
For Work In Restricted Working Space, Add	718.37	
<b>23 05 23 00-0541 Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston Check, Swing Check Valves (23 05 23 00-0457)</b>		
Note: 800 PSIG at 850 Degrees F.		
23 05 23 00-0542 EA 1/2" Class 800, Threaded, Forged Steel Swing Check Valve.....	204.77	15.31
For Work In Restricted Working Space, Add	14.82	
23 05 23 00-0543 EA 3/4" 800, Threaded, Forged Steel Swing Check Valve.....	242.98	16.85
For Work In Restricted Working Space, Add	19.97	
23 05 23 00-0544 EA 1" Class 800, Threaded, Forged Steel Swing Check Valve.....	287.76	19.14
For Work In Restricted Working Space, Add	24.18	
23 05 23 00-0545 EA 1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve.....	440.89	20.37
For Work In Restricted Working Space, Add	30.63	
23 05 23 00-0546 EA 1-1/2" 800, Threaded, Forged Steel Swing Check Valve.....	522.41	23.58
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0547 EA 2" Class 800, Threaded, Forged Steel Swing Check Valve.....	702.44	27.87
For Work In Restricted Working Space, Add	41.76	
<b>23 05 23 00-0548 Plastic Check Valve (23 05 23 00-0457)</b>		
<b>23 05 23 00-0549 Polyvinyl Chloride (PVC) Check Valve (23 05 23 00-0548)</b>		
<b>23 05 23 00-0550 Polyvinyl Chloride (PVC) "Y" Check Valve (23 05 23 00-0549)</b>		
23 05 23 00-0551 EA 1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....	107.42	15.31
23 05 23 00-0552 EA 3/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....	128.87	16.85
23 05 23 00-0553 EA 1" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....	148.98	19.14
23 05 23 00-0554 EA 1-1/4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....	209.58	20.37
23 05 23 00-0555 EA 1-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....	234.24	23.58
23 05 23 00-0556 EA 2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....	401.64	25.66
23 05 23 00-0557 EA 2-1/2" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....	475.61	37.64
23 05 23 00-0558 EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....	523.44	43.70
23 05 23 00-0559 EA 4" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Threaded Or Socket.....	748.33	49.34
23 05 23 00-0560 EA 3" Polyvinyl Chloride (PVC) "Y" Type Check Valve, Flanged.....	729.92	239.67
<b>23 05 23 00-0561 Polyvinyl Chloride (PVC) True Union Ball Check Valve (23 05 23 00-0549)</b>		
<b>23 05 23 00-0562 Valves (23 05 23 00-0561)</b>		
23 05 23 00-0563 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	84.23	15.31
23 05 23 00-0564 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	106.38	16.85
23 05 23 00-0565 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	130.36	19.14
23 05 23 00-0566 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	168.44	20.37
23 05 23 00-0567 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	197.41	23.58
23 05 23 00-0568 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	283.53	27.87
23 05 23 00-0569 EA 3" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	455.04	37.64
23 05 23 00-0570 EA 4" Polyvinyl Chloride (PVC) True Union Ball Check Valve.....	752.68	43.70
<b>23 05 23 00-0571 Foot Valve Screen (23 05 23 00-0561)</b>		
Note: For use with PVC true union ball check valves above.		
23 05 23 00-0572 EA 1/2" Foot Valve Screen Option.....	59.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0573 EA 3/4" Foot Valve Screen Option .....	70.74	
23 05 23 00-0574 EA 1" Foot Valve Screen Option .....	81.97	
23 05 23 00-0575 EA 1-1/4" Foot Valve Screen Option .....	123.75	
23 05 23 00-0576 EA 1-1/2" Foot Valve Screen Option .....	136.92	
23 05 23 00-0577 EA 2" Foot Valve Screen Option .....	148.15	
23 05 23 00-0578 EA 2-1/2" Foot Valve Screen Option .....	176.76	
23 05 23 00-0579 EA 3" Foot Valve Screen Option .....	205.38	
23 05 23 00-0580 EA 4" Foot Valve Screen Option .....	249.26	
<b>23 05 23 00-0581 Hayward "True Check" With VITON Seals</b> <small>(23 05 23 00-0561)</small>		
23 05 23 00-0582 EA 1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	76.11	15.31
23 05 23 00-0583 EA 3/8" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	78.45	15.31
23 05 23 00-0584 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	85.06	15.31
23 05 23 00-0585 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	106.30	16.85
23 05 23 00-0586 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	131.53	19.14
23 05 23 00-0587 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	168.36	20.37
23 05 23 00-0588 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	202.39	23.58
23 05 23 00-0589 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	252.01	27.87
23 05 23 00-0590 EA 2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	450.06	37.64
23 05 23 00-0591 EA 3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	495.57	43.70
23 05 23 00-0592 EA 4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	761.77	49.34
<b>23 05 23 00-0593 Hayward "True Check" With Ethylene Propylene Diene Monomer (EPDM) Seals</b> <small>(23 05 23 00-0561)</small>		
23 05 23 00-0594 EA 1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	80.92	15.31
23 05 23 00-0595 EA 3/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	102.23	16.85
23 05 23 00-0596 EA 1" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	125.89	19.14
23 05 23 00-0597 EA 1-1/4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	162.22	20.37
23 05 23 00-0598 EA 1-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	191.11	23.58
23 05 23 00-0599 EA 2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	242.06	27.87
23 05 23 00-0600 EA 2-1/2" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	435.13	37.64
23 05 23 00-0601 EA 3" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	483.13	43.70
23 05 23 00-0602 EA 4" Polyvinyl Chloride (PVC) True Union Ball Check Valve, Socket Or Threaded .....	742.69	49.34
<b>23 05 23 00-0603 Polyvinyl Chloride (PVC) Check Valve, Ethylene Propylene Diene Monomer (EPDM) Housing, Flanged</b> <small>(23 05 23 00-0549)</small>		
23 05 23 00-0604 EA 1" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....	373.68	91.88
23 05 23 00-0605 EA 1-1/4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....	408.54	107.20
23 05 23 00-0606 EA 1-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....	452.47	133.99
23 05 23 00-0607 EA 2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....	553.78	168.44
23 05 23 00-0608 EA 2-1/2" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....	657.83	169.25
23 05 23 00-0609 EA 3" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....	889.64	197.46
23 05 23 00-0610 EA 4" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....	1,244.47	334.97
23 05 23 00-0611 EA 6" Thermoplastic Check Valve, Polyvinyl Chloride (PVC) With Ethylene Propylene Diene Monomer (EPDM) Housing .....	2,050.06	564.16
<b>23 05 23 00-0612 Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End Connections</b> <small>(23 05 23 00-0548)</small>		
23 05 23 00-0613 EA 1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	102.26	15.31
<i>For Work In Restricted Working Space, Add</i>	14.82	
23 05 23 00-0614 EA 3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	119.43	16.85
<i>For Work In Restricted Working Space, Add</i>	19.97	
23 05 23 00-0615 EA 1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	135.54	19.14
<i>For Work In Restricted Working Space, Add</i>	24.18	
23 05 23 00-0616 EA 1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	159.30	20.37
<i>For Work In Restricted Working Space, Add</i>	30.63	
23 05 23 00-0617 EA 1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	178.31	23.58
<i>For Work In Restricted Working Space, Add</i>	35.34	
23 05 23 00-0618 EA 2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	233.31	27.87
<i>For Work In Restricted Working Space, Add</i>	41.76	
23 05 23 00-0619 EA 2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	321.94	37.64
<i>For Work In Restricted Working Space, Add</i>	56.39	
23 05 23 00-0620 EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB.....	390.73	43.70
<i>For Work In Restricted Working Space, Add</i>	65.07	
23 05 23 00-0621 Polyvinyl Chloride (PVC) Body, Swing Check Valves <small>(23 05 23 00-0548)</small>		
23 05 23 00-0622 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals <small>(23 05 23 00-0621)</small>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0623 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals ..... <i>For Work In Restricted Working Space, Add</i>	714.57 75.53	197.37
23 05 23 00-0624 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals ..... <i>For Work In Restricted Working Space, Add</i>	932.20 124.40	334.83
23 05 23 00-0625 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals ..... <i>For Work In Restricted Working Space, Add</i>	1,425.04 154.31	374.74
23 05 23 00-0626 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals ..... <i>For Work In Restricted Working Space, Add</i>	1,884.77 174.88	474.68
<b>23 05 23 00-0627 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals</b> <small>(23 05 23 00-0627)</small>		
23 05 23 00-0628 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals ..... <i>For Work In Restricted Working Space, Add</i>	834.00 75.53	197.37
23 05 23 00-0629 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals ..... <i>For Work In Restricted Working Space, Add</i>	1,195.94 124.40	334.83
23 05 23 00-0630 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals ..... <i>For Work In Restricted Working Space, Add</i>	1,674.86 154.31	374.74
23 05 23 00-0631 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals ..... <i>For Work In Restricted Working Space, Add</i>	2,183.35 174.88	474.68
<b>23 05 23 00-0632 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter Weights</b> <small>(23 05 23 00-0632)</small>		
23 05 23 00-0633 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights ..... <i>For Work In Restricted Working Space, Add</i>	865.52 75.53	197.37
23 05 23 00-0634 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights ..... <i>For Work In Restricted Working Space, Add</i>	1,198.43 124.40	334.83
23 05 23 00-0635 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights ..... <i>For Work In Restricted Working Space, Add</i>	1,564.38 154.31	374.74
23 05 23 00-0636 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Ethylene Propylene Diene Monomer (EPDM) Seals And Counter weights ..... <i>For Work In Restricted Working Space, Add</i>	1,999.56 174.88	474.68
<b>23 05 23 00-0637 Polyvinyl Chloride (PVC) Body, Swing Check Valves With Viton Seals And Counter Weights</b> <small>(23 05 23 00-0637)</small>		
23 05 23 00-0638 EA 3" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights ..... <i>For Work In Restricted Working Space, Add</i>	965.04 75.53	197.37
23 05 23 00-0639 EA 4" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights ..... <i>For Work In Restricted Working Space, Add</i>	1,343.58 124.40	334.83
23 05 23 00-0640 EA 6" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights ..... <i>For Work In Restricted Working Space, Add</i>	1,771.73 154.31	374.74
23 05 23 00-0641 EA 8" Polyvinyl Chloride (PVC) Swing Check Valve, With Viton Seals And Counter Weights ..... <i>For Work In Restricted Working Space, Add</i>	2,248.38 174.88	474.68
<b>23 05 23 00-0642 Diaphragm Valves</b> <small>(23 05 23 00-0642)</small>		
<b>23 05 23 00-0643 Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0643)</small>		
23 05 23 00-0644 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	307.24	45.81
23 05 23 00-0645 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	390.96	50.75
23 05 23 00-0646 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	426.72	62.74
23 05 23 00-0647 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	675.43	93.75
23 05 23 00-0648 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,073.53	112.79
<b>23 05 23 00-0649 Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0649)</small>		
23 05 23 00-0650 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	307.80	73.50
23 05 23 00-0651 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	355.70	76.57
23 05 23 00-0652 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	426.58	114.85
23 05 23 00-0653 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	640.29	160.79
23 05 23 00-0654 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	998.54	204.13
23 05 23 00-0655 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,253.79	204.42
23 05 23 00-0656 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,551.52	239.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0657 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated .....	2,221.59	401.80
23 05 23 00-0658 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated .....	4,413.27	449.69
23 05 23 00-0659 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated .....	6,817.60	574.61
<b>23 05 23 00-0660 Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0642)</small>		
23 05 23 00-0661 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	194.97	45.81
23 05 23 00-0662 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	252.08	50.75
23 05 23 00-0663 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	287.84	62.74
23 05 23 00-0664 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	486.31	93.75
23 05 23 00-0665 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	633.26	112.79
<b>23 05 23 00-0666 Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0642)</small>		
23 05 23 00-0667 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	215.02	73.50
23 05 23 00-0668 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	250.50	76.57
23 05 23 00-0669 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	321.35	114.85
23 05 23 00-0670 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	497.02	160.79
23 05 23 00-0671 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	664.94	204.13
23 05 23 00-0672 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	790.51	204.42
23 05 23 00-0673 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	958.21	239.67
23 05 23 00-0674 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	1,522.21	401.80
23 05 23 00-0675 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	2,846.42	449.69
23 05 23 00-0676 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated .....	4,332.44	574.61
<b>23 05 23 00-0677 125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0642)</small>		
23 05 23 00-0678 EA 1" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	394.88	114.85
23 05 23 00-0679 EA 1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	628.65	160.79
23 05 23 00-0680 EA 2" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	840.73	204.13
23 05 23 00-0681 EA 2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	1,169.57	204.42
23 05 23 00-0682 EA 3" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	1,297.89	239.67
23 05 23 00-0683 EA 4" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	2,046.44	401.80
23 05 23 00-0684 EA 6" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	3,915.13	449.69
23 05 23 00-0685 EA 8" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	8,012.31	574.61
<b>23 05 23 00-0686 Solenoid Valves</b> <small>(23 05 23)</small>		
<b>23 05 23 00-0687 Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure</b> <small>(23 05 23 00-0686)</small>		
23 05 23 00-0688 EA 1/4" Solenoid Valve, Bronze, 150 PSI, Water .....	142.43	15.31
23 05 23 00-0689 EA 1/2" Solenoid Valve, Bronze, 150 PSI, Water .....	164.76	15.31
23 05 23 00-0690 EA 3/4" Solenoid Valve, Bronze, 150 PSI, Water .....	211.64	16.85
23 05 23 00-0691 EA 1" Solenoid Valve, Bronze, 150 PSI, Water .....	307.82	19.14
23 05 23 00-0692 EA 1-1/2" Solenoid Valve, Bronze, 150 PSI, Water .....	537.27	23.58
23 05 23 00-0693 EA 2" Solenoid Valve, Bronze, 150 PSI, Water .....	830.81	27.87
23 05 23 00-0694 EA 2-1/2" Solenoid Valve, Bronze, 150 PSI, Water .....	1,131.20	37.64
23 05 23 00-0695 EA 3" Solenoid Valve, Bronze, 150 PSI, Water .....	1,628.09	43.70
<b>23 05 23 00-0696 Flow Control Valves And Meters</b> <small>(23 05 23)</small>		
<b>23 05 23 00-0697 Conditioned Water Balancing Valves</b> <small>(23 05 23 00-0696)</small>		
Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter.		
23 05 23 00-0698 EA 1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	191.86	78.12
23 05 23 00-0699 EA 3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	233.08	104.16
23 05 23 00-0700 EA 1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	1,392.18	119.02
23 05 23 00-0701 EA 1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	1,503.74	147.05
23 05 23 00-0702 EA 1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	1,609.79	156.24
23 05 23 00-0703 EA 2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	1,724.92	178.61

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0704 EA 2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	3,063.01	310.85
23 05 23 00-0705 EA 3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	2,967.46	355.28
23 05 23 00-0706 EA 3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	1,928.71	239.77
23 05 23 00-0707 EA 4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	2,719.57	401.96
23 05 23 00-0708 EA 6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	4,169.56	507.74
23 05 23 00-0709 EA 8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	5,599.44	648.78
23 05 23 00-0710 EA 10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	7,917.35	789.81
<b>23 05 23 00-0711 Read Out Meters</b> (23 05 23 00-0696)		
Note: For use with conditioned portable water balancing valves.		
23 05 23 00-0712 EA 0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....	1,285.23	
23 05 23 00-0713 EA 0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....	1,739.29	
23 05 23 00-0714 EA 0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....	1,739.29	
23 05 23 00-0715 EA 0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....	1,739.29	
<b>23 05 23 00-0716 Balancing Valves</b> (23 05 23)		
<b>23 05 23 00-0717 Balancing Valves With Lever</b> (23 05 23 00-0716)		
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0718 EA 1/2" Threaded Balancing Valve With Lever .....	282.47	48.25
23 05 23 00-0719 EA 3/4" Threaded Balancing Valve With Lever .....	319.18	63.57
23 05 23 00-0720 EA 1" Threaded Balancing Valve With Lever .....	595.84	72.76
23 05 23 00-0721 EA 1-1/4" Threaded Balancing Valve With Lever .....	647.77	90.38
23 05 23 00-0722 EA 1-1/2" Threaded Balancing Valve With Lever .....	680.89	95.73
23 05 23 00-0723 EA 2" Threaded Balancing Valve With Lever .....	831.64	109.52
23 05 23 00-0724 EA 2-1/2" Flanged Balancing Valve With Lever .....	1,105.66	204.51
23 05 23 00-0725 EA 3" Flanged Balancing Valve With Lever .....	1,121.31	239.77
23 05 23 00-0726 EA 4" Flanged Balancing Valve With Lever .....	1,436.92	401.96
23 05 23 00-0727 EA 5" Flanged Balancing Valve With Lever .....	4,028.39	456.96
23 05 23 00-0728 EA 6" Flanged Balancing Valve With Lever .....	2,083.43	507.74
23 05 23 00-0729 EA 8" Flanged Balancing Valve With Lever .....	2,745.98	648.78
<b>23 05 23 00-0730 Balancing Valves With Nut</b> (23 05 23 00-0716)		
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0731 EA 4" Flanged Balancing Valve With Nut .....	1,436.92	401.96
23 05 23 00-0732 EA 5" Flanged Balancing Valve With Nut .....	4,028.39	456.96
23 05 23 00-0733 EA 6" Flanged Balancing Valve With Nut .....	2,083.43	507.74
23 05 23 00-0734 EA 8" Flanged Balancing Valve With Nut .....	2,745.98	648.78
<b>23 05 23 00-0735 Balancing Valves With Hand Wheel</b> (23 05 23 00-0716)		
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0736 EA 4" Flanged Balancing Valve With Hand Wheel .....	1,908.71	401.96
23 05 23 00-0737 EA 5" Flanged Balancing Valve With Hand Wheel .....	4,527.14	456.96
23 05 23 00-0738 EA 6" Flanged Balancing Valve With Hand Wheel .....	2,583.21	507.74
23 05 23 00-0739 EA 8" Flanged Balancing Valve With Hand Wheel .....	3,632.53	648.78
23 05 23 00-0740 EA 10" Flanged Balancing Valve With Hand Wheel .....	5,521.63	789.81
23 05 23 00-0741 EA 12" Flanged Balancing Valve With Hand Wheel .....	7,179.47	615.45
23 05 23 00-0742 EA 14" Flanged Balancing Valve With Hand Wheel .....	9,349.61	1,160.41
<b>23 05 23 00-0743 Balancing Valves With Chain Wheel</b> (23 05 23 00-0716)		
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0744 EA 4" Flanged Balancing Valve With Chain Wheel .....	2,179.34	401.96
23 05 23 00-0745 EA 5" Flanged Balancing Valve With Chain Wheel .....	4,793.62	456.96
23 05 23 00-0746 EA 6" Flanged Balancing Valve With Chain Wheel .....	2,848.66	507.74
23 05 23 00-0747 EA 8" Flanged Balancing Valve With Chain Wheel .....	3,959.15	648.78
23 05 23 00-0748 EA 10" Flanged Balancing Valve With Chain Wheel .....	5,838.93	789.81
23 05 23 00-0749 EA 12" Flanged Balancing Valve With Chain Wheel .....	7,771.92	615.02
23 05 23 00-0750 EA 14" Flanged Balancing Valve With Chain Wheel .....	9,885.69	1,160.41
<b>23 05 23 00-0751 Calibrated Balancing Valves</b> (23 05 23 00-0716)		
Note: Bell & Gossett CB Series.		
23 05 23 00-0752 EA 1/2" Brazed Or Soldered Calibrated Balancing Valve (CB-1/2S) .....	145.36	15.31
23 05 23 00-0753 EA 3/4" Brazed Or Soldered Calibrated Balancing Valve (CB-3/4S) .....	172.16	16.85
23 05 23 00-0754 EA 1" Brazed Or Soldered Calibrated Balancing Valve (CB-1S) .....	210.15	19.14
23 05 23 00-0755 EA 1-1/4" Brazed Or Soldered Calibrated Balancing Valve (CB-1-1/4S) .....	282.03	20.37
23 05 23 00-0756 EA 1" Threaded Calibrated Balancing Valve (CB-1) .....	223.35	19.14
23 05 23 00-0757 EA 1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4) .....	304.81	20.37
23 05 23 00-0758 EA 1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2) .....	354.11	23.59
23 05 23 00-0759 EA 2" Threaded Calibrated Balancing Valve (CB-2) .....	475.08	27.88
23 05 23 00-0760 EA 2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2) .....	875.84	40.89
23 05 23 00-0761 EA 3" Threaded Calibrated Balancing Valve (CB-3) .....	1,225.08	47.48
23 05 23 00-0762 EA 2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F) .....	1,166.05	222.11





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0763 EA 3" Flanged Calibrated Balancing Valve (CB-3F).....	1,675.21	260.40
23 05 23 00-0764 EA 4" Flanged Calibrated Balancing Valve (CB-4F).....	2,627.98	436.55
23 05 23 00-0765 EA 5" Flanged Calibrated Balancing Valve (CB-5F).....	3,755.79	496.30
23 05 23 00-0766 EA 6" Flanged Calibrated Balancing Valve (CB-6F).....	4,919.57	551.44
23 05 23 00-0767 EA 8" Flanged Calibrated Balancing Valve (CB-8F).....	8,821.17	704.62
23 05 23 00-0768 EA 10" Flanged Calibrated Balancing Valve (CB-10F).....	12,226.45	812.29
23 05 23 00-0769 EA 12" Flanged Calibrated Balancing Valve (CB-12F).....	25,540.04	986.35
23 05 23 00-0770 EA 4" Grooved Calibrated Balancing Valve (CB-4G).....	3,018.12	52.72
23 05 23 00-0771 EA 5" Grooved Calibrated Balancing Valve (CB-5G).....	3,477.18	63.71
23 05 23 00-0772 EA 6" Grooved Calibrated Balancing Valve (CB-6G).....	4,620.07	81.69
23 05 23 00-0773 EA 8" Grooved Calibrated Balancing Valve (CB-8G).....	8,634.48	103.68
23 05 23 00-0774 EA 10" Grooved Calibrated Balancing Valve (CB-10G).....	11,600.94	116.17
23 05 23 00-0775 EA 12" Grooved Calibrated Balancing Valve (CB-12G).....	23,859.76	141.65

**23 05 23 00-0776 Butterfly Valves (23 05 23)**

**23 05 23 00-0777 Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves (23 05 23 00-0776)**

Note: With on-off handle

23 05 23 00-0778 EA 2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	419.93	204.13
For 200 PSI, Add	79.06	
For 175 PSI, Add	28.82	
For Work In Restricted Working Space, Add	76.57	
23 05 23 00-0779 EA 2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	430.62	204.42
For 200 PSI, Add	83.66	
For 175 PSI, Add	30.50	
For Work In Restricted Working Space, Add	76.90	
23 05 23 00-0780 EA 3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	487.66	239.67
For 200 PSI, Add	90.10	
For 175 PSI, Add	32.85	
For Work In Restricted Working Space, Add	89.99	
23 05 23 00-0781 EA 4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	739.08	401.80
For 200 PSI, Add	113.08	
For 175 PSI, Add	41.23	
For Work In Restricted Working Space, Add	151.05	
23 05 23 00-0782 EA 5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	899.30	449.69
For 200 PSI, Add	160.88	
For 175 PSI, Add	58.65	
For Work In Restricted Working Space, Add	169.24	
23 05 23 00-0783 EA 6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,034.45	499.66
For 200 PSI, Add	196.74	
For 175 PSI, Add	71.73	
For Work In Restricted Working Space, Add	187.37	
23 05 23 00-0784 EA 8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,330.52	574.61
For 200 PSI, Add	296.03	
For 175 PSI, Add	107.93	
For Work In Restricted Working Space, Add	214.14	
23 05 23 00-0785 EA 10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	2,069.53	699.52
For 200 PSI, Add	573.66	
For 175 PSI, Add	209.15	
For Work In Restricted Working Space, Add	262.32	
23 05 23 00-0786 EA 12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	2,582.52	849.42
For 200 PSI, Add	730.87	
For 175 PSI, Add	266.46	
For Work In Restricted Working Space, Add	317.96	

**23 05 23 00-0787 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valves (23 05 23 00-0776)**

23 05 23 00-0788 EA 2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	707.22	204.13
For Work In Restricted Working Space, Add	76.57	
23 05 23 00-0789 EA 2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	712.16	204.42
For Work In Restricted Working Space, Add	76.90	
23 05 23 00-0790 EA 3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	778.78	239.67
For Work In Restricted Working Space, Add	89.99	
23 05 23 00-0791 EA 4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,043.61	401.80
For Work In Restricted Working Space, Add	151.05	
23 05 23 00-0792 EA 5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,236.39	449.69
For Work In Restricted Working Space, Add	169.24	
23 05 23 00-0793 EA 6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,369.51	499.66
For Work In Restricted Working Space, Add	187.37	
23 05 23 00-0794 EA 8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,679.10	574.61
For Work In Restricted Working Space, Add	214.14	
23 05 23 00-0795 EA 10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	2,121.24	699.52
For Work In Restricted Working Space, Add	262.32	
23 05 23 00-0796 EA 12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	2,871.73	849.42
For Work In Restricted Working Space, Add	317.96	

**23 05 23 00-0797 Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Lug Type, Butterfly Valves (23 05 23 00-0776)**

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0798 EA 14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	4,653.37	1,064.26
For 200 PSI, Add	1,164.37	
For 175 PSI, Add	404.30	
For Work In Restricted Working Space, Add	425.70	
23 05 23 00-0799 EA 16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	5,906.23	1,248.73
For 200 PSI, Add	1,564.32	
For 175 PSI, Add	543.17	
For Work In Restricted Working Space, Add	468.27	
23 05 23 00-0800 EA 18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	8,190.40	1,390.63
For 200 PSI, Add	2,324.18	
For 175 PSI, Add	807.01	
For Work In Restricted Working Space, Add	520.30	
23 05 23 00-0801 EA 20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	10,490.06	1,560.91
For 200 PSI, Add	3,074.01	
For 175 PSI, Add	1,067.37	
For Work In Restricted Working Space, Add	585.34	
23 05 23 00-0802 EA 24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	14,060.63	1,915.67
For 200 PSI, Add	4,197.32	
For 175 PSI, Add	1,457.40	
For Work In Restricted Working Space, Add	720.42	
23 05 23 00-0803 EA 30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	28,924.09	3,061.64
For 200 PSI, Add	9,009.89	
For 175 PSI, Add	3,128.43	
For Work In Restricted Working Space, Add	1,168.99	
23 05 23 00-0804 EA 36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	36,669.84	4,174.96
For 200 PSI, Add	11,447.66	
For 175 PSI, Add	3,974.88	
For Work In Restricted Working Space, Add	1,461.23	
23 05 23 00-0805 EA 42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	44,607.03	6,123.27
For 200 PSI, Add	13,360.87	
For 175 PSI, Add	4,639.19	
For Work In Restricted Working Space, Add	2,248.05	
23 05 23 00-0806 EA 48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	54,261.68	7,654.09
For 200 PSI, Add	16,027.24	
For 175 PSI, Add	5,565.01	
For Work In Restricted Working Space, Add	2,922.47	
23 05 23 00-0807 EA 54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	65,565.17	9,184.91
For 200 PSI, Add	19,219.76	
For 175 PSI, Add	6,673.53	
For Work In Restricted Working Space, Add	3,653.09	
<b>23 05 23 00-0808 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, 175 LB (23 05</b>		
<b>23 00-0776)</b>		
Note: (Milwaukee Valve Company BB-SC 100)		
23 05 23 00-0809 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....	538.18	19.14
For Work In Restricted Working Space, Add	24.18	
23 05 23 00-0810 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....	588.60	20.37
For Work In Restricted Working Space, Add	30.63	
23 05 23 00-0811 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....	736.55	23.58
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0812 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....	922.20	27.87
For Work In Restricted Working Space, Add	41.76	
23 05 23 00-0813 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB.....	1,237.77	37.64
For Work In Restricted Working Space, Add	56.39	
<b>23 05 23 00-0814 Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, With</b>		
<b>Tamper Switch, 175 LB (23 05 23 00-0776)</b>		
Note: (Milwaukee Valve Company BB-S02)		
23 05 23 00-0815 EA 1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....	804.58	19.14
For Work In Restricted Working Space, Add	24.18	
23 05 23 00-0816 EA 1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....	872.13	20.37
For Work In Restricted Working Space, Add	30.63	
23 05 23 00-0817 EA 1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....	1,042.72	23.58
For Work In Restricted Working Space, Add	35.34	
23 05 23 00-0818 EA 2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....	1,248.31	27.87
For Work In Restricted Working Space, Add	41.76	
23 05 23 00-0819 EA 2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB.....	1,598.39	37.64
For Work In Restricted Working Space, Add	56.39	
<b>23 05 29 Hangers and Supports for HVAC Piping and Equipment (23 05)</b>		
<b>23 05 29 00-0001 Hangers And Supports (23 05 29)</b>		
<b>23 05 29 00-0002 Clevis Hangers (23 05 29 00-0001)</b>		
<b>23 05 29 00-0003 Steel Clevis Hanger (Cooper B-Line B3100) (23 05 29 00-0002)</b>		
Note: Type 1.		
23 05 29 00-0004 EA 1/2" Steel Clevis Hanger (Cooper B-Line B3100).....	27.28	12.69
For Work In Restricted Working Space, Add	7.61	
23 05 29 00-0005 EA 3/4" Steel Clevis Hanger (Cooper B-Line B3100).....	30.10	14.10
For Work In Restricted Working Space, Add	8.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0006 EA 1" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	31.66 8.90	14.10
23 05 29 00-0007 EA 1-1/4" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	32.77 9.15	15.25
23 05 29 00-0008 EA 1-1/2" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	33.02 9.15	15.25
23 05 29 00-0009 EA 2" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	34.34 9.40	15.51
23 05 29 00-0010 EA 2-1/2" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	37.12 9.67	16.07
23 05 29 00-0011 EA 3" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	39.31 9.95	16.91
23 05 29 00-0012 EA 3-1/2" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	41.27 10.62	18.58
23 05 29 00-0013 EA 4" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	44.99 11.28	19.74
23 05 29 00-0014 EA 5" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	57.46 14.17	23.61
23 05 29 00-0015 EA 6" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	69.02 16.92	28.20
23 05 29 00-0016 EA 8" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	91.41 21.15	35.25
23 05 29 00-0017 EA 10" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	131.28 28.20	47.94
23 05 29 00-0018 EA 12" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	152.71 31.72	52.86
23 05 29 00-0019 EA 14" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	187.41 36.37	59.21
23 05 29 00-0020 EA 16" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	230.80 42.29	70.49
23 05 29 00-0021 EA 18" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	287.79 52.87	88.11
23 05 29 00-0022 EA 20" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	445.90 63.44	105.74
23 05 29 00-0023 EA 24" Steel Clevis Hanger (Cooper B-Line B3100)..... <i>For Work In Restricted Working Space, Add</i>	660.81 74.02	123.35
<b>23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)</b> <small>(23 05 29 00-0002)</small>		
23 05 29 00-0025 EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	32.34 7.61	12.69
23 05 29 00-0026 EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	35.16 8.46	14.10
23 05 29 00-0027 EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	36.82 8.90	14.10
23 05 29 00-0028 EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	38.05 9.15	15.25
23 05 29 00-0029 EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	38.69 9.15	15.25
23 05 29 00-0030 EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	39.69 9.40	15.51
23 05 29 00-0031 EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	43.65 9.67	16.07
23 05 29 00-0032 EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	45.62 9.95	16.91
23 05 29 00-0033 EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	51.27 11.28	19.74
23 05 29 00-0034 EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	55.54 11.28	19.74
23 05 29 00-0035 EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	87.20 14.17	23.61
23 05 29 00-0036 EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	107.49 16.92	28.20
23 05 29 00-0037 EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C)..... <i>For Work In Restricted Working Space, Add</i>	128.91 21.15	35.25
<b>23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)</b> <small>(23 05 29 00-0002)</small>		
23 05 29 00-0039 EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	27.10 7.61	12.69
23 05 29 00-0040 EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	29.96 8.46	14.10
23 05 29 00-0041 EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	31.62 8.90	14.10
23 05 29 00-0042 EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	32.49 9.15	15.25
23 05 29 00-0043 EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	32.63 9.15	15.25
23 05 29 00-0044 EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	33.55 9.40	15.51
23 05 29 00-0045 EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	36.08 9.67	16.07
23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	37.55 9.95	16.91

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0047	EA		3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	42.38 11.28	19.74
23 05 29 00-0048	EA		4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104)..... <i>For Work In Restricted Working Space, Add</i>	43.38 11.28	19.74
<b>23 05 29 00-0049</b>			<b>Extended Steel Clevis Hanger (Cooper B-Line B3108) <small>(23 05 29 00-0002)</small></b>		
23 05 29 00-0050	EA		3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	36.28 8.46	14.10
23 05 29 00-0051	EA		1" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	37.83 8.90	14.10
23 05 29 00-0052	EA		1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	38.66 9.15	15.25
23 05 29 00-0053	EA		1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	39.66 9.15	15.25
23 05 29 00-0054	EA		2" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	42.17 9.40	15.51
23 05 29 00-0055	EA		2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	44.84 9.67	16.07
23 05 29 00-0056	EA		3" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	46.88 9.95	16.91
23 05 29 00-0057	EA		4" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	55.68 11.28	19.74
23 05 29 00-0058	EA		5" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	70.20 14.17	23.61
23 05 29 00-0059	EA		6" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	86.10 16.92	28.20
23 05 29 00-0060	EA		8" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	119.43 21.15	35.25
23 05 29 00-0061	EA		10" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	166.37 28.20	47.94
23 05 29 00-0062	EA		12" Steel Extended Clevis Hanger (Cooper B-Line B3108)..... <i>For Work In Restricted Working Space, Add</i>	186.91 31.72	52.86
<b>23 05 29 00-0063</b>			<b>Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <small>(23 05 29 00-0002)</small></b>		
23 05 29 00-0064	EA		2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	43.35 9.40	15.51
23 05 29 00-0065	EA		2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	45.95 9.67	16.07
23 05 29 00-0066	EA		3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	48.14 9.95	16.91
23 05 29 00-0067	EA		3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	53.53 11.28	19.74
23 05 29 00-0068	EA		4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	56.04 11.28	19.74
23 05 29 00-0069	EA		5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	69.73 14.17	23.61
23 05 29 00-0070	EA		6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	81.72 16.92	28.20
23 05 29 00-0071	EA		8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109)..... <i>For Work In Restricted Working Space, Add</i>	107.31 21.15	35.25
<b>23 05 29 00-0072</b>			<b>Adjustable Hangers <small>(23 05 29 00-0001)</small></b>		
<b>23 05 29 00-0073</b>			<b>Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <small>(23 05 29 00-0072)</small></b> Note: Type 5.		
23 05 29 00-0074	EA		1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	24.70 6.68	11.14
23 05 29 00-0075	EA		3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	27.15 7.41	12.35
23 05 29 00-0076	EA		1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	29.87 8.24	13.73
23 05 29 00-0077	EA		1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	33.01 9.15	15.25
23 05 29 00-0078	EA		1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	34.69 9.61	16.01
23 05 29 00-0079	EA		2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	36.96 10.07	16.78
23 05 29 00-0080	EA		2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	41.61 10.52	17.54
23 05 29 00-0081	EA		3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	43.46 10.98	18.30
23 05 29 00-0082	EA		4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690)..... <i>For Work In Restricted Working Space, Add</i>	51.16 12.35	20.59
<b>23 05 29 00-0083</b>			<b>Adjustable Swivel Steel Ring (Cooper B-Line B3170) <small>(23 05 29 00-0072)</small></b> Note: Type 10.		
23 05 29 00-0084	EA		1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	29.32 8.46 7.39 9.52	14.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0085 EA 3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	30.90	14.10
<i>For Work In Restricted Working Space, Add</i>	8.90	
<i>For 304 Stainless Steel, Add</i>	8.05	
<i>For 316 Stainless Steel, Add</i>	10.37	
23 05 29 00-0086 EA 1" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	32.55	15.51
<i>For Work In Restricted Working Space, Add</i>	9.40	
<i>For 304 Stainless Steel, Add</i>	8.05	
<i>For 316 Stainless Steel, Add</i>	10.37	
23 05 29 00-0087 EA 1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	34.53	16.91
<i>For Work In Restricted Working Space, Add</i>	9.95	
<i>For 304 Stainless Steel, Add</i>	8.98	
<i>For 316 Stainless Steel, Add</i>	11.56	
23 05 29 00-0088 EA 1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	38.96	19.74
<i>For Work In Restricted Working Space, Add</i>	11.28	
<i>For 304 Stainless Steel, Add</i>	8.98	
<i>For 316 Stainless Steel, Add</i>	11.56	
23 05 29 00-0089 EA 2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	41.72	19.74
<i>For Work In Restricted Working Space, Add</i>	12.08	
<i>For 304 Stainless Steel, Add</i>	9.50	
<i>For 316 Stainless Steel, Add</i>	12.24	
23 05 29 00-0090 EA 2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	45.72	21.15
<i>For Work In Restricted Working Space, Add</i>	13.01	
<i>For 304 Stainless Steel, Add</i>	15.44	
<i>For 316 Stainless Steel, Add</i>	19.89	
23 05 29 00-0091 EA 3" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	49.43	23.96
<i>For Work In Restricted Working Space, Add</i>	14.10	
<i>For 304 Stainless Steel, Add</i>	16.10	
<i>For 316 Stainless Steel, Add</i>	20.74	
23 05 29 00-0092 EA 3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	54.73	25.73
<i>For Work In Restricted Working Space, Add</i>	15.44	
<i>For 304 Stainless Steel, Add</i>	21.58	
<i>For 316 Stainless Steel, Add</i>	27.80	
23 05 29 00-0093 EA 4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	59.66	28.20
<i>For Work In Restricted Working Space, Add</i>	16.92	
<i>For 304 Stainless Steel, Add</i>	21.58	
<i>For 316 Stainless Steel, Add</i>	27.80	
23 05 29 00-0094 EA 5" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	70.22	31.72
<i>For Work In Restricted Working Space, Add</i>	19.03	
<i>For 304 Stainless Steel, Add</i>	44.75	
<i>For 316 Stainless Steel, Add</i>	57.63	
23 05 29 00-0095 EA 6" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	77.38	35.25
<i>For Work In Restricted Working Space, Add</i>	21.15	
<i>For 304 Stainless Steel, Add</i>	45.47	
<i>For 316 Stainless Steel, Add</i>	58.57	
23 05 29 00-0096 EA 8" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	92.77	42.29
<i>For Work In Restricted Working Space, Add</i>	25.38	
<i>For 304 Stainless Steel, Add</i>	53.99	
<i>For 316 Stainless Steel, Add</i>	69.53	
<b>23 05 29 00-0097 Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) (23 05 29 00-0072)</b>		
23 05 29 00-0098 EA 1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	31.77	14.10
<i>For Work In Restricted Working Space, Add</i>	8.46	
<i>For 304 Stainless Steel, Add</i>	23.56	
<i>For 316 Stainless Steel, Add</i>	30.35	
23 05 29 00-0099 EA 3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	33.25	14.10
<i>For Work In Restricted Working Space, Add</i>	8.90	
<i>For 304 Stainless Steel, Add</i>	23.56	
<i>For 316 Stainless Steel, Add</i>	30.35	
23 05 29 00-0100 EA 1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	34.90	15.51
<i>For Work In Restricted Working Space, Add</i>	9.40	
<i>For 304 Stainless Steel, Add</i>	23.56	
<i>For 316 Stainless Steel, Add</i>	30.35	
23 05 29 00-0101 EA 1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	36.74	16.91
<i>For Work In Restricted Working Space, Add</i>	9.95	
<i>For 304 Stainless Steel, Add</i>	23.56	
<i>For 316 Stainless Steel, Add</i>	30.35	
23 05 29 00-0102 EA 1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	41.47	19.74
<i>For Work In Restricted Working Space, Add</i>	11.28	
<i>For 304 Stainless Steel, Add</i>	25.54	
<i>For 316 Stainless Steel, Add</i>	32.90	
23 05 29 00-0103 EA 2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	44.15	19.74
<i>For Work In Restricted Working Space, Add</i>	12.08	
<i>For 304 Stainless Steel, Add</i>	25.54	
<i>For 316 Stainless Steel, Add</i>	32.90	
23 05 29 00-0104 EA 2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	53.54	21.15
<i>For Work In Restricted Working Space, Add</i>	13.01	
<i>For 304 Stainless Steel, Add</i>	67.06	
<i>For 316 Stainless Steel, Add</i>	86.36	
23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	59.58	23.96
<i>For Work In Restricted Working Space, Add</i>	14.10	
<i>For 304 Stainless Steel, Add</i>	83.09	
<i>For 316 Stainless Steel, Add</i>	107.02	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 29 Hangers and Supports for HVAC Piping and Equipment**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	65.04	25.73
For Work In Restricted Working Space, Add	15.44	
For 304 Stainless Steel, Add	89.63	
For 316 Stainless Steel, Add	115.43	
23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	72.92	28.20
For Work In Restricted Working Space, Add	16.92	
For 304 Stainless Steel, Add	109.10	
For 316 Stainless Steel, Add	140.51	
23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	80.20	31.72
For Work In Restricted Working Space, Add	19.03	
For 304 Stainless Steel, Add	110.62	
For 316 Stainless Steel, Add	142.46	
23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	94.76	35.25
For Work In Restricted Working Space, Add	21.15	
For 304 Stainless Steel, Add	160.18	
For 316 Stainless Steel, Add	206.30	
<b>23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)</b>		
<b>23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110)</b>		
Note: Excludes rod and nuts. Type 41.		
23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114).....	38.39	11.29
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	6.77	
23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114).....	42.40	12.70
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	7.62	
23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114).....	47.56	14.81
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	8.89	
23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114).....	54.66	16.92
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	10.16	
23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114).....	73.14	19.04
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	11.42	
23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114).....	67.57	21.16
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	12.69	
23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114).....	83.57	25.39
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	15.23	
23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114).....	110.11	29.62
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	17.77	
23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114).....	130.63	35.26
Note: Excludes rod and nuts.		
For Work In Restricted Working Space, Add	21.16	
<b>23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) (23 05 29 00-0110)</b>		
Note: Type 43.		
23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	58.49	19.91
For Work In Restricted Working Space, Add	11.49	
For 304 Stainless Steel, Add	133.32	
For 316 Stainless Steel, Add	171.70	
23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	61.26	20.52
For Work In Restricted Working Space, Add	12.32	
For 304 Stainless Steel, Add	133.32	
For 316 Stainless Steel, Add	171.70	
23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	66.30	21.45
For Work In Restricted Working Space, Add	13.13	
For 304 Stainless Steel, Add	148.70	
For 316 Stainless Steel, Add	191.51	
23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	75.95	22.98
For Work In Restricted Working Space, Add	13.79	
For 304 Stainless Steel, Add	198.00	
For 316 Stainless Steel, Add	255.00	
23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	81.06	26.04
For Work In Restricted Working Space, Add	15.32	
For 304 Stainless Steel, Add	198.00	
For 316 Stainless Steel, Add	255.00	
23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	91.09	28.03
For Work In Restricted Working Space, Add	16.82	
For 304 Stainless Steel, Add	231.13	
For 316 Stainless Steel, Add	297.67	
23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	104.77	30.64
For Work In Restricted Working Space, Add	18.38	
For 304 Stainless Steel, Add	287.03	
For 316 Stainless Steel, Add	369.67	
23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	141.68	38.29
For Work In Restricted Working Space, Add	22.98	
For 304 Stainless Steel, Add	429.59	
For 316 Stainless Steel, Add	553.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i>	179.67 30.64	52.08
	511.83	
	659.18	
23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i>	228.88 34.46	57.45
	752.40	
	969.00	
23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i>	447.64 39.52	65.87
	2,085.01	
	2,685.24	
23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i>	558.70 45.95	76.59
	2,676.43	
	3,446.92	
<b>23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) (23 05 29 00-0110)</b>		
23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	57.16 11.49	19.91
23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	61.55 12.32	20.52
23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	64.73 13.13	21.45
23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	72.65 13.79	22.98
23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	80.91 15.32	26.04
23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	88.51 16.82	28.03
23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	106.46 18.38	30.64
23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	137.66 22.98	38.29
23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	178.73 30.64	52.08
23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	226.44 34.46	57.45
23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	248.75 39.52	65.87
23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	298.43 45.95	76.59
23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	398.30 57.44	95.73
23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120)..... <i>For Work In Restricted Working Space, Add</i>	490.96 68.93	114.88
<b>23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) (23 05 29 00-0110)</b>		
23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	63.37 11.49	19.91
23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	70.74 12.32	20.52
23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	74.52 13.13	21.45
23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	78.64 13.79	22.98
23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	93.47 15.32	26.04
23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	105.52 16.82	28.03
23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	121.82 18.38	30.64
23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	169.28 22.98	38.29
23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	212.82 30.64	52.08
23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	245.32 34.46	57.45
23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	339.10 39.52	65.87
23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	405.29 45.95	76.59
23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122)..... <i>For Work In Restricted Working Space, Add</i>	464.79 57.44	95.73
<b>23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) (23 05 29 00-0110)</b>		
23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	63.73 11.49	19.91
23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)..... <i>For Work In Restricted Working Space, Add</i>	71.06 12.32	20.52

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	75.06 13.13	21.45
23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	78.17 13.79	22.98
23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	97.10 15.32	26.04
23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	109.79 16.82	28.03
23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	126.91 18.38	30.64
23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	177.17 22.98	38.29
23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	222.29 30.64	52.08
23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	256.40 34.46	57.45
23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	356.83 39.52	65.87
<b>23 05 29 00-0175 Pipe And Riser Clamps (23 05 29 00-0001)</b> Note: Includes bolts and weldless eye nuts.		
<b>23 05 29 00-0176 Steel Pipe Clamp (Cooper B-Line B3140) (23 05 29 00-0175)</b> Note: Type 4.		
23 05 29 00-0177 EA 1/2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	23.00 5.49	9.15
23 05 29 00-0178 EA 3/4" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	23.31 5.58	9.30
23 05 29 00-0179 EA 1" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	23.65 5.67	9.45
23 05 29 00-0180 EA 1-1/4" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	25.38 5.76	9.61
23 05 29 00-0181 EA 1-1/2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	25.69 5.86	9.76
23 05 29 00-0182 EA 2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	27.08 5.95	9.91
23 05 29 00-0183 EA 2-1/2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	28.12 6.13	10.21
23 05 29 00-0184 EA 3" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	29.63 6.32	10.52
23 05 29 00-0185 EA 3-1/2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	33.48 6.41	10.68
23 05 29 00-0186 EA 4" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	39.58 8.24	13.73
23 05 29 00-0187 EA 5" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	55.98 10.98	18.30
23 05 29 00-0188 EA 6" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	75.46 13.73	22.88
23 05 29 00-0189 EA 8" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	88.69 16.01	26.69
23 05 29 00-0190 EA 10" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	124.66 18.30	30.50
23 05 29 00-0191 EA 12" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	165.56 20.13	33.55
23 05 29 00-0192 EA 14" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	258.01 21.96	36.60
23 05 29 00-0193 EA 16" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	279.65 23.79	39.65
23 05 29 00-0194 EA 18" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	442.30 25.62	42.70
23 05 29 00-0195 EA 20" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	509.47 27.45	45.75
23 05 29 00-0196 EA 24" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	658.86 30.20	50.33
<b>23 05 29 00-0197 Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) (23 05 29 00-0175)</b>		
23 05 29 00-0198 EA 3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	42.15 5.87	9.86
23 05 29 00-0199 EA 4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	53.74 5.87	9.86
23 05 29 00-0200 EA 5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	58.71 6.13	10.22
23 05 29 00-0201 EA 6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	90.75 6.38	10.57
23 05 29 00-0202 EA 8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	98.57 6.76	11.28
23 05 29 00-0203 EA 10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	164.50 6.74	11.28
23 05 29 00-0204 EA 12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	263.29 7.61	12.69
23 05 29 00-0205 EA 14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	332.99 8.46	14.10





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0206 EA 16" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)..... <i>For Work In Restricted Working Space, Add</i>	362.93 10.15	16.91
23 05 29 00-0207 EA 18" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)..... <i>For Work In Restricted Working Space, Add</i>	1,110.97 11.84	19.74
23 05 29 00-0208 EA 20" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)..... <i>For Work In Restricted Working Space, Add</i>	1,276.20 12.69	21.15
23 05 29 00-0209 EA 24" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)..... <i>For Work In Restricted Working Space, Add</i>	1,632.25 13.53	22.56
 <b>23 05 29 00-0210 Steel Riser Clamp (Cooper B-Line B3373) (23 05 29 00-0175)</b>		
Note: Type 8.		
23 05 29 00-0211 EA 1/2" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	22.79 5.07	8.46
23 05 29 00-0212 EA 3/4" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	23.63 5.16	8.60
23 05 29 00-0213 EA 1" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	23.98 5.24	8.74
23 05 29 00-0214 EA 1-1/4" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	25.63 5.33	8.88
23 05 29 00-0215 EA 1-1/2" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	26.52 5.42	9.02
23 05 29 00-0216 EA 2" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	27.12 5.50	9.16
23 05 29 00-0217 EA 2-1/2" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	28.22 5.67	9.44
23 05 29 00-0218 EA 3" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	29.76 5.84	9.72
23 05 29 00-0219 EA 3-1/2" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	32.27 5.92	9.86
23 05 29 00-0220 EA 4" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	39.56 7.61	12.69
23 05 29 00-0221 EA 5" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	51.42 10.15	16.91
23 05 29 00-0222 EA 6" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	65.04 12.69	21.15
23 05 29 00-0223 EA 8" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	86.59 14.80	24.67
23 05 29 00-0224 EA 10" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	111.51 16.92	28.20
23 05 29 00-0225 EA 12" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	133.22 18.61	31.01
23 05 29 00-0226 EA 14" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	174.79 20.30	33.84
23 05 29 00-0227 EA 16" Steel Riser Clamp (Cooper B-Line B3373)..... <i>For Work In Restricted Working Space, Add</i>	317.82 21.99	36.65
 <b>23 05 29 00-0228 Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C) (23 05 29 00-0175)</b>		
23 05 29 00-0229 EA 1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	36.79 5.07	8.46
23 05 29 00-0230 EA 3/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	37.37 5.16	8.60
23 05 29 00-0231 EA 1" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	38.79 5.24	8.74
23 05 29 00-0232 EA 1-1/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	41.24 5.33	8.88
23 05 29 00-0233 EA 1-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	46.04 5.42	9.02
23 05 29 00-0234 EA 2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	48.69 5.50	9.16
23 05 29 00-0235 EA 2-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	52.44 5.67	9.44
23 05 29 00-0236 EA 3" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	57.28 5.84	9.72
23 05 29 00-0237 EA 4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)..... <i>For Work In Restricted Working Space, Add</i>	77.31 7.61	12.69
 <b>23 05 29 00-0238 Two Bolt Steel Underground Clamp (Cooper B-Line B3132) (23 05 29 00-0175)</b>		
Note: Type 42		
23 05 29 00-0239 EA 4" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	77.93 5.87	9.86
23 05 29 00-0240 EA 6" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	82.86 6.38	10.57
23 05 29 00-0241 EA 8" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	90.76 6.76	11.28
23 05 29 00-0242 EA 10" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	96.47 6.74	11.28
23 05 29 00-0243 EA 12" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	116.23 7.61	12.69
23 05 29 00-0244 EA 14" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	347.69 8.46	14.10

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	464.76	16.91
<i>For Work In Restricted Working Space, Add</i>	10.15	
23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	553.57	19.74
<i>For Work In Restricted Working Space, Add</i>	11.84	
23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	802.41	21.15
<i>For Work In Restricted Working Space, Add</i>	12.69	
23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	1,102.48	22.56
<i>For Work In Restricted Working Space, Add</i>	13.53	
<b>23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)</b>		
23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	72.33	9.86
<i>For Work In Restricted Working Space, Add</i>	5.87	
23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	78.05	10.57
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	132.55	11.28
<i>For Work In Restricted Working Space, Add</i>	6.76	
23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	146.71	11.28
<i>For Work In Restricted Working Space, Add</i>	6.74	
23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	208.86	12.69
<i>For Work In Restricted Working Space, Add</i>	7.61	
23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	317.46	14.10
<i>For Work In Restricted Working Space, Add</i>	8.46	
23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	424.79	16.91
<i>For Work In Restricted Working Space, Add</i>	10.15	
23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	505.37	19.74
<i>For Work In Restricted Working Space, Add</i>	11.84	
23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	734.73	21.15
<i>For Work In Restricted Working Space, Add</i>	12.69	
23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	1,002.29	22.56
<i>For Work In Restricted Working Space, Add</i>	13.53	
<b>23 05 29 00-0260 Split Pipe Clamps And Rings (23 05 29 00-0001)</b>		
<b>23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) (23 05 29 00-0260)</b>		
Note: Type 6.		
23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171).....	37.24	12.96
<i>For Work In Restricted Working Space, Add</i>	7.78	
23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171).....	39.43	13.73
<i>For Work In Restricted Working Space, Add</i>	8.24	
23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171).....	43.06	15.25
<i>For Work In Restricted Working Space, Add</i>	9.15	
23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171).....	46.17	16.01
<i>For Work In Restricted Working Space, Add</i>	9.61	
23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171).....	49.59	16.78
<i>For Work In Restricted Working Space, Add</i>	10.07	
23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171).....	59.52	17.54
<i>For Work In Restricted Working Space, Add</i>	10.52	
23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171).....	64.80	18.30
<i>For Work In Restricted Working Space, Add</i>	10.98	
23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171).....	84.21	20.59
<i>For Work In Restricted Working Space, Add</i>	12.35	
23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171).....	106.93	25.93
<i>For Work In Restricted Working Space, Add</i>	15.56	
23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171).....	140.73	30.50
<i>For Work In Restricted Working Space, Add</i>	18.30	
<b>23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) (23 05 29 00-0260)</b>		
Note: Type 11.		
23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	25.53	10.72
<i>For Work In Restricted Working Space, Add</i>	6.56	
23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	26.88	10.72
<i>For Work In Restricted Working Space, Add</i>	6.86	
23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	29.68	13.78
<i>For Work In Restricted Working Space, Add</i>	7.66	
23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	32.04	13.78
<i>For Work In Restricted Working Space, Add</i>	8.06	
23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	35.20	13.78
<i>For Work In Restricted Working Space, Add</i>	8.35	
23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	40.64	15.31
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	51.90	15.31
<i>For Work In Restricted Working Space, Add</i>	9.57	
23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	57.12	16.85
<i>For Work In Restricted Working Space, Add</i>	9.99	
23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	61.08	18.38
<i>For Work In Restricted Working Space, Add</i>	10.94	
<b>23 05 29 00-0282 Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) (23 05 29 00-0260)</b>		
Note: Type 12.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0283 EA 1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	25.53	10.72
For Work In Restricted Working Space, Add	6.56	
23 05 29 00-0284 EA 3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	26.88	11.49
For Work In Restricted Working Space, Add	6.86	
23 05 29 00-0285 EA 1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	29.68	13.02
For Work In Restricted Working Space, Add	7.66	
23 05 29 00-0286 EA 1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	32.04	13.78
For Work In Restricted Working Space, Add	8.06	
23 05 29 00-0287 EA 1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	35.20	13.78
For Work In Restricted Working Space, Add	8.35	
23 05 29 00-0288 EA 2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	40.64	15.31
For Work In Restricted Working Space, Add	9.19	
23 05 29 00-0289 EA 2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	51.90	16.08
For Work In Restricted Working Space, Add	9.57	
23 05 29 00-0290 EA 3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	57.12	16.85
For Work In Restricted Working Space, Add	9.99	
<b>23 05 29 00-0291 Pipe Straps (23 05 29 00-0001)</b>		
<b>23 05 29 00-0292 Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B-3180) (23</b>		
<small>05 29 00-0291)</small>		
23 05 29 00-0293 EA 1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	17.48	7.66
For Work In Restricted Working Space, Add	4.59	
23 05 29 00-0294 EA 3/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	18.29	9.19
For Work In Restricted Working Space, Add	4.84	
23 05 29 00-0295 EA 1" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	19.19	9.19
For Work In Restricted Working Space, Add	5.11	
23 05 29 00-0296 EA 1-1/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	20.28	9.19
For Work In Restricted Working Space, Add	5.40	
23 05 29 00-0297 EA 1-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	21.48	10.72
For Work In Restricted Working Space, Add	5.74	
23 05 29 00-0298 EA 2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	24.27	10.72
For Work In Restricted Working Space, Add	6.13	
23 05 29 00-0299 EA 2-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	28.83	10.72
For Work In Restricted Working Space, Add	6.56	
23 05 29 00-0300 EA 3" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	35.74	10.72
For Work In Restricted Working Space, Add	7.07	
23 05 29 00-0301 EA 4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	42.23	13.78
For Work In Restricted Working Space, Add	8.27	
23 05 29 00-0302 EA 6" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	50.84	15.31
For Work In Restricted Working Space, Add	9.19	
23 05 29 00-0303 EA 8" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180) .....	62.15	16.85
For Work In Restricted Working Space, Add	10.10	
<b>23 05 29 00-0304 Two Hole Copper-Clad Pipe Straps (23 05 29 00-0291)</b>		
23 05 29 00-0305 EA 1/2" Two Hole Copper-Clad Pipe Strap .....	8.30	
For Work In Restricted Working Space, Add	2.30	
23 05 29 00-0306 EA 3/4" Two Hole Copper-Clad Pipe Strap .....	8.79	
For Work In Restricted Working Space, Add	2.41	
23 05 29 00-0307 EA 1" Two Hole Copper-Clad Pipe Strap .....	9.73	
For Work In Restricted Working Space, Add	2.53	
23 05 29 00-0308 EA 1-1/4" Two Hole Copper-Clad Pipe Strap .....	10.71	
For Work In Restricted Working Space, Add	2.64	
23 05 29 00-0309 EA 1-1/2" Two Hole Copper-Clad Pipe Strap .....	11.45	
For Work In Restricted Working Space, Add	2.76	
23 05 29 00-0310 EA 2" Two Hole Copper-Clad Pipe Strap .....	12.42	
For Work In Restricted Working Space, Add	2.99	
<b>23 05 29 00-0311 One Hole Galvanized Steel Pipe Straps (23 05 29 00-0291)</b>		
23 05 29 00-0312 EA 1/2" One Hole Galvanized Steel Pipe Strap (Anvil 185D).....	3.51	
For Work In Restricted Working Space, Add	0.77	
23 05 29 00-0313 EA 3/4" One Hole Galvanized Steel Pipe Strap (Anvil 185D).....	4.10	
For Work In Restricted Working Space, Add	0.82	
23 05 29 00-0314 EA 1" One Hole Galvanized Steel Pipe Strap (Anvil 185D).....	4.41	
For Work In Restricted Working Space, Add	0.89	
23 05 29 00-0315 EA 1-1/4" Galvanized Steel Strap, 1 Hole .....	4.74	
For Work In Restricted Working Space, Add	0.96	
23 05 29 00-0316 EA 1-1/2" Galvanized Steel Strap, 1 Hole .....	5.11	
For Work In Restricted Working Space, Add	1.04	
23 05 29 00-0317 EA 2" Galvanized Steel Strap, 1 Hole .....	5.69	
For Work In Restricted Working Space, Add	1.15	
<b>23 05 29 00-0318 Pipe and Equipment Support Brackets (23 05 29 00-0001)</b>		
<b>23 05 29 00-0319 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-</b>		
<b>Line B3068) (23 05 29 00-0318)</b>		
Note: Up to 750# load.		
23 05 29 00-0320 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) .....	130.84	16.91
For Galvanized, Add	19.40	
For Work In Restricted Working Space, Add	10.15	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0321 EA 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) .....	132.61	16.91
For Galvanized, Add	19.75	
For Work In Restricted Working Space, Add	10.15	
23 05 29 00-0322 EA 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) .....	139.63	16.91
For Galvanized, Add	21.16	
For Work In Restricted Working Space, Add	10.15	
<b>23 05 29 00-0323 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) (23 05 29 00-0318)</b>		
Note: Up to 1500# load.		
23 05 29 00-0324 EA 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) .....	302.23	16.91
For Galvanized, Add	53.68	
For Work In Restricted Working Space, Add	10.15	
23 05 29 00-0325 EA 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) .....	352.69	16.91
For Galvanized, Add	63.77	
For Work In Restricted Working Space, Add	10.15	
23 05 29 00-0326 EA 24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) .....	455.57	16.91
For Galvanized, Add	84.35	
For Work In Restricted Working Space, Add	10.15	
<b>23 05 29 00-0327 Pipe Alignment Guide (23 05 29 00-0001)</b>		
<b>23 05 29 00-0328 Pipe Alignment Guide, 1" Insulation (23 05 29 00-0327)</b>		
23 05 29 00-0329 EA 1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1/2) .....	882.46	26.79
23 05 29 00-0330 EA 3/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3/4) .....	883.86	27.49
23 05 29 00-0331 EA 1" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1) .....	885.27	28.20
23 05 29 00-0332 EA 1-1/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/4) .....	886.68	28.90
23 05 29 00-0333 EA 1-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/2) .....	968.83	29.60
23 05 29 00-0334 EA 2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2) .....	987.03	32.43
23 05 29 00-0335 EA 2-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2-1/2) .....	989.14	33.49
23 05 29 00-0336 EA 3" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3) .....	991.26	34.54
23 05 29 00-0337 EA 4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-4) .....	1,049.05	36.65
23 05 29 00-0338 EA 5" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-5) .....	1,220.82	46.53
23 05 29 00-0339 EA 6" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-6) .....	1,240.56	56.39
23 05 29 00-0340 EA 8" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-8) .....	1,393.54	70.49
23 05 29 00-0341 EA 10" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-10) .....	2,607.39	84.59
23 05 29 00-0342 EA 12" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-12) .....	3,978.94	112.79
23 05 29 00-0343 EA 14" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-14) .....	4,894.85	140.98
23 05 29 00-0344 EA 16" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-16) .....	5,897.52	157.90
23 05 29 00-0345 EA 18" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-18) .....	6,356.98	176.23
23 05 29 00-0346 EA 20" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-20) .....	6,746.37	201.60
23 05 29 00-0347 EA 24" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-24) .....	8,528.79	211.47
<b>23 05 29 00-0348 Pipe Alignment Guide, 1-1/2" Insulation (23 05 29 00-0327)</b>		
23 05 29 00-0349 EA 1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1/2) .....	883.86	27.49
23 05 29 00-0350 EA 3/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3/4) .....	966.01	28.20
23 05 29 00-0351 EA 1" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1) .....	967.42	28.90
23 05 29 00-0352 EA 1-1/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/4) .....	968.83	29.60
23 05 29 00-0353 EA 1-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/2) .....	970.25	30.31
23 05 29 00-0354 EA 2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2) .....	988.44	33.13
23 05 29 00-0355 EA 2-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2-1/2) .....	990.56	34.19
23 05 29 00-0356 EA 3" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3) .....	1,046.23	35.25
23 05 29 00-0357 EA 4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-4) .....	1,050.46	37.36
23 05 29 00-0358 EA 5" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-5) .....	1,222.93	47.58
23 05 29 00-0359 EA 6" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-6) .....	1,243.37	57.80
23 05 29 00-0360 EA 8" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-8) .....	1,397.06	72.25
23 05 29 00-0361 EA 10" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-10) .....	2,611.61	86.70
23 05 29 00-0362 EA 12" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-12) .....	3,984.58	115.60
23 05 29 00-0363 EA 14" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-14) .....	4,901.90	144.50
23 05 29 00-0364 EA 16" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-16) .....	5,905.98	162.13
23 05 29 00-0365 EA 18" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-18) .....	6,365.44	180.45
23 05 29 00-0366 EA 20" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-20) .....	6,756.23	206.54
23 05 29 00-0367 EA 24" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-24) .....	8,539.36	216.76
<b>23 05 29 00-0368 Pipe Alignment Guide, 2" Insulation (23 05 29 00-0327)</b>		
23 05 29 00-0369 EA 1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1/2) .....	966.01	28.20
23 05 29 00-0370 EA 3/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3/4) .....	979.98	28.90
23 05 29 00-0371 EA 1" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1) .....	981.39	29.60
23 05 29 00-0372 EA 1-1/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/4) .....	982.81	30.31
23 05 29 00-0373 EA 1-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/2) .....	984.21	31.01
23 05 29 00-0374 EA 2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2) .....	1,043.42	33.84
23 05 29 00-0375 EA 2-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2-1/2) .....	1,046.23	35.25
23 05 29 00-0376 EA 3" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3) .....	1,047.99	36.13
23 05 29 00-0377 EA 4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-4) .....	1,203.90	38.06
23 05 29 00-0378 EA 5" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-5) .....	1,225.05	48.64
23 05 29 00-0379 EA 6" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-6) .....	1,370.99	59.21
23 05 29 00-0380 EA 8" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-8) .....	1,538.81	74.01



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0381	EA			10" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-10).....	2,615.84	88.82
23 05 29 00-0382	EA			12" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-12).....	3,990.21	118.43
23 05 29 00-0383	EA			14" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-14).....	4,908.95	148.03
23 05 29 00-0384	EA			16" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-16).....	5,914.11	166.20
23 05 29 00-0385	EA			18" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-18).....	6,374.60	185.04
23 05 29 00-0386	EA			20" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-20).....	6,766.10	211.47
23 05 29 00-0387	EA			24" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-24).....	8,549.94	222.04
<b>23 05 29 00-0388</b>				<b>Pipe Alignment Guide, 2-1/2" Insulation (23 05 29 00-0327)</b>		
23 05 29 00-0389	EA			1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1/2).....	979.98	28.90
23 05 29 00-0390	EA			3/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3/4).....	1,034.95	29.60
23 05 29 00-0391	EA			1" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1).....	1,036.37	30.31
23 05 29 00-0392	EA			1-1/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/4).....	1,037.77	31.01
23 05 29 00-0393	EA			1-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/2).....	1,039.18	31.72
23 05 29 00-0394	EA			2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2).....	1,044.82	34.54
23 05 29 00-0395	EA			2-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2-1/2).....	1,047.99	36.13
23 05 29 00-0396	EA			3" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3).....	1,201.78	37.01
23 05 29 00-0397	EA			4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-4).....	1,205.31	38.77
23 05 29 00-0398	EA			5" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-5).....	1,351.25	49.34
23 05 29 00-0399	EA			6" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-6).....	1,373.80	60.63
23 05 29 00-0400	EA			8" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-8).....	2,589.76	75.78
23 05 29 00-0401	EA			10" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-10).....	3,935.24	90.93
23 05 29 00-0402	EA			12" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-12).....	4,855.37	121.24
23 05 29 00-0403	EA			14" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-14).....	4,916.86	151.55
23 05 29 00-0404	EA			16" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-16).....	5,922.89	170.59
23 05 29 00-0405	EA			18" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-18).....	6,383.77	189.62
23 05 29 00-0406	EA			20" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-20).....	6,776.67	216.76
23 05 29 00-0407	EA			24" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-24).....	8,561.21	227.68
<b>23 05 29 00-0408</b>				<b>Pipe Alignment Guide, 3" Insulation (23 05 29 00-0327)</b>		
23 05 29 00-0409	EA			1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1/2).....	1,034.95	29.60
23 05 29 00-0410	EA			3/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3/4).....	1,036.37	30.31
23 05 29 00-0411	EA			1" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1).....	1,037.77	31.01
23 05 29 00-0412	EA			1-1/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/4).....	1,039.18	31.72
23 05 29 00-0413	EA			1-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/2).....	1,040.59	32.43
23 05 29 00-0414	EA			2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2).....	1,198.26	35.25
23 05 29 00-0415	EA			2-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2-1/2).....	1,201.78	37.01
23 05 29 00-0416	EA			3" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3).....	1,203.90	38.06
23 05 29 00-0417	EA			4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-4).....	1,332.07	39.76
23 05 29 00-0418	EA			5" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-5).....	1,354.06	50.75
23 05 29 00-0419	EA			6" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-6).....	1,514.85	62.03
23 05 29 00-0420	EA			8" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-8).....	2,593.29	77.54
23 05 29 00-0421	EA			10" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-10).....	3,939.46	93.05
23 05 29 00-0422	EA			12" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-12).....	4,861.02	124.07
23 05 29 00-0423	EA			14" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-14).....	4,923.91	155.08
23 05 29 00-0424	EA			16" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-16).....	5,931.35	174.82
23 05 29 00-0425	EA			18" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-18).....	6,382.23	193.84
23 05 29 00-0426	EA			20" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-20).....	6,797.25	222.04
23 05 29 00-0427	EA			24" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-24).....	8,572.50	233.32
<b>23 05 29 00-0428</b>				<b>Pipe Alignment Guide, 3-1/2" Insulation (23 05 29 00-0327)</b>		
23 05 29 00-0429	EA			1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1/2).....	1,036.37	30.31
23 05 29 00-0430	EA			3/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3/4).....	1,189.80	31.01
23 05 29 00-0431	EA			1" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1).....	1,191.21	31.72
23 05 29 00-0432	EA			1-1/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/4).....	1,192.62	32.43
23 05 29 00-0433	EA			1-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/2).....	1,194.03	33.13
23 05 29 00-0434	EA			2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2).....	1,200.02	36.13
23 05 29 00-0435	EA			2-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2-1/2).....	1,203.62	37.92
23 05 29 00-0436	EA			3" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3).....	1,330.59	39.02
23 05 29 00-0437	EA			4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-4).....	1,334.33	40.89
23 05 29 00-0438	EA			5" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-5).....	1,495.11	52.16
23 05 29 00-0439	EA			6" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-6).....	2,565.09	63.44
23 05 29 00-0440	EA			8" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-8).....	3,911.97	79.30
23 05 29 00-0441	EA			10" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-10).....	4,804.50	95.37
23 05 29 00-0442	EA			12" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-12).....	5,835.49	126.88
23 05 29 00-0443	EA			14" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-14).....	5,899.63	158.95
23 05 29 00-0444	EA			16" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-16).....	6,382.57	179.04
23 05 29 00-0445	EA			18" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-18).....	6,740.72	198.78
23 05 29 00-0446	EA			20" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-20).....	8,559.81	226.98
<b>23 05 29 00-0447</b>				<b>Pipe Alignment Guide, 4" Insulation (23 05 29 00-0327)</b>		
23 05 29 00-0448	EA			1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1/2).....	1,189.80	31.01
23 05 29 00-0449	EA			3/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3/4).....	1,191.21	31.72
23 05 29 00-0450	EA			1" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1).....	1,192.62	32.43
23 05 29 00-0451	EA			1-1/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/4).....	1,194.03	33.13
23 05 29 00-0452	EA			1-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/2).....	1,195.45	33.84

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 29 Hangers and Supports for HVAC Piping and Equipment**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0453 EA 2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2).....	1,326.57	37.01
23 05 29 00-0454 EA 2-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2-1/2).....	1,330.10	38.77
23 05 29 00-0455 EA 3" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3).....	1,332.49	39.97
23 05 29 00-0456 EA 4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-4).....	1,474.67	41.94
23 05 29 00-0457 EA 5" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-5).....	2,545.35	53.58
23 05 29 00-0458 EA 6" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-6).....	2,567.91	64.85
23 05 29 00-0459 EA 8" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-8).....	3,915.50	81.06
23 05 29 00-0460 EA 10" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-10).....	4,809.72	97.98
23 05 29 00-0461 EA 12" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-12).....	5,841.83	130.05
23 05 29 00-0462 EA 14" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-14).....	6,328.79	162.13
23 05 29 00-0463 EA 16" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-16).....	6,709.71	183.28
23 05 29 00-0464 EA 18" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-18).....	8,514.70	204.42

**23 05 29 00-0465 Sway Bracing For No Hub Pipe (23 05 29 00-0001)**

23 05 29 00-0466 EA 1-1/2" Sway Bracing .....	163.90	18.61
<i>For Work In Restricted Working Space, Add</i>	11.13	
23 05 29 00-0467 EA 2" Sway Bracing.....	168.98	19.60
<i>For Work In Restricted Working Space, Add</i>	11.75	
23 05 29 00-0468 EA 3" Sway Bracing.....	175.14	20.72
<i>For Work In Restricted Working Space, Add</i>	12.44	
23 05 29 00-0469 EA 4" Sway Bracing.....	198.78	23.54
<i>For Work In Restricted Working Space, Add</i>	14.10	
23 05 29 00-0470 EA 6" Sway Bracing.....	291.84	35.25
<i>For Work In Restricted Working Space, Add</i>	21.15	
23 05 29 00-0471 EA 8" Sway Bracing.....	324.49	43.98
<i>For Work In Restricted Working Space, Add</i>	26.43	
23 05 29 00-0472 EA 10" Sway Bracing.....	368.00	58.79
<i>For Work In Restricted Working Space, Add</i>	35.24	

**23 05 29 00-0473 Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) (23 05 29 00-0001)**

Note: Heights listed is total for base and adjustable saddle

23 05 29 00-0474 EA 23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	340.08	14.10
<i>For Work In Restricted Working Space, Add</i>	8.46	
23 05 29 00-0475 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	348.26	15.51
<i>For Work In Restricted Working Space, Add</i>	9.30	
23 05 29 00-0476 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	692.33	17.62
<i>For Work In Restricted Working Space, Add</i>	10.58	
23 05 29 00-0477 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	841.95	19.74
<i>For Work In Restricted Working Space, Add</i>	11.84	
23 05 29 00-0478 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	853.53	21.85
<i>For Work In Restricted Working Space, Add</i>	13.11	
23 05 29 00-0479 EA 25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	940.06	24.67
<i>For Work In Restricted Working Space, Add</i>	14.80	
23 05 29 00-0480 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	1,118.67	26.79
<i>For Work In Restricted Working Space, Add</i>	16.07	
23 05 29 00-0481 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	1,132.58	28.90
<i>For Work In Restricted Working Space, Add</i>	17.34	
23 05 29 00-0482 EA 26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	1,150.43	31.72
<i>For Work In Restricted Working Space, Add</i>	19.03	
23 05 29 00-0483 EA 28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	1,199.17	34.54
<i>For Work In Restricted Working Space, Add</i>	20.72	
23 05 29 00-0484 EA 29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	1,286.12	38.06
<i>For Work In Restricted Working Space, Add</i>	22.84	
23 05 29 00-0485 EA 30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	1,326.01	42.29
<i>For Work In Restricted Working Space, Add</i>	25.38	
23 05 29 00-0486 EA 32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	1,613.69	46.53
<i>For Work In Restricted Working Space, Add</i>	27.92	
23 05 29 00-0487 EA 33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	1,762.51	52.16
<i>For Work In Restricted Working Space, Add</i>	31.30	
23 05 29 00-0488 EA 35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	2,479.67	57.80
<i>For Work In Restricted Working Space, Add</i>	34.68	
23 05 29 00-0489 EA 36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle) .....	3,060.70	63.44
<i>For Work In Restricted Working Space, Add</i>	38.06	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0490	EA			39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	3,678.90	69.08
				<i>For Work In Restricted Working Space, Add</i>	41.45	
<b>23 05 29 00-0491</b>				<b>Channel Mounted Cushion Clamp</b> <small>(23 05 29 00-0001)</small>		
				Note: Includes fastening into channel.		
23 05 29 00-0492	EA			1/2" Channel Mounted Cushion Clamp For 3/8" Pipe (Cooper B-Line BVT050).....	16.32	6.35
23 05 29 00-0493	EA			5/8" Channel Mounted Cushion Clamp For 1/2" Pipe (Cooper B-Line BVT062).....	17.19	7.05
23 05 29 00-0494	EA			7/8" Channel Mounted Cushion Clamp For 3/4" Pipe (Cooper B-Line BVT087).....	18.88	7.40
23 05 29 00-0495	EA			1-1/8" Channel Mounted Cushion Clamp For 1" Pipe (Cooper B-Line BVT112).....	20.16	7.75
23 05 29 00-0496	EA			1-3/8" Channel Mounted Cushion Clamp For 1-1/4" Pipe (Cooper B-Line BVT137).....	22.43	8.46
23 05 29 00-0497	EA			1-5/8" Channel Mounted Cushion Clamp For 1-1/2" Pipe (Cooper B-Line BVT162).....	24.82	8.81
23 05 29 00-0498	EA			2-1/8" Channel Mounted Cushion Clamp For 2" Pipe (Cooper B-Line BVT212).....	30.64	9.16
23 05 29 00-0499	EA			2-5/8" Channel Mounted Cushion Clamp For 2-1/2" Pipe (Cooper B-Line BVT262).....	33.78	9.86
23 05 29 00-0500	EA			3-1/8" Channel Mounted Cushion Clamp For 3" Pipe (Cooper B-Line BVT312).....	41.21	11.28
23 05 29 00-0501	EA			4-1/8" Channel Mounted Cushion Clamp For 4" Pipe (Cooper B-Line BVT412).....	60.84	12.69
<b>23 05 29 00-0502</b>				<b>Galvanized Steel Cushion Tube Clamp (KMC)</b> <small>(23 05 29 00-0001)</small>		
				Note: Excludes fastening bolt and drilling if necessary.		
23 05 29 00-0503	EA			1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/8" Pipe.....	5.14	
				Note: 19/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0504	EA			1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/8" Pipe.....	5.27	
				Note: 23/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0505	EA			5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1/2" Pipe.....	5.36	
				Note: 23/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0506	EA			5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1/2" Pipe.....	5.58	
				Note: 27/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0507	EA			7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/4" Pipe.....	5.32	
				Note: 27/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0508	EA			7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/4" Pipe.....	5.72	
				Note: 31/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0509	EA			1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1" Pipe.....	5.47	
				Note: 31/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0510	EA			1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1" Pipe.....	5.96	
				Note: 1-1/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0511	EA			1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1" Pipe.....	5.99	
				Note: 1-5/32" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0512	EA			1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/4" Pipe.....	5.70	
				Note: 1-3/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0513	EA			1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/4" Pipe.....	5.92	
				Note: 1-7/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0514	EA			1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/4" Pipe.....	6.61	
				Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0515	EA			1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/2" Pipe.....	5.94	
				Note: 1-5/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0516	EA			1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/2" Pipe.....	6.39	
				Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0517	EA			1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/2" Pipe.....	7.13	
				Note: 1-13/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0518	EA			2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2" Pipe.....	7.19	
				Note: 1-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0519	EA			2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2" Pipe.....	7.60	
				Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0520	EA			2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2" Pipe.....	8.40	
				Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0521	EA			2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2-1/2" Pipe.....	8.65	
				Note: 1-11/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0522	EA			2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2-1/2" Pipe.....	9.85	
				Note: 1-13/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0523	EA			2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2-1/2" Pipe.....	9.94	
				Note: 1-15/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0524	EA			3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3" Pipe.....	8.89	
				Note: 1-15/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0525	EA			3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe.....	9.85	
				Note: 2-1/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0526	EA			3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3" Pipe.....	10.44	
				Note: 2-3/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0527	EA			3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3-1/2" Pipe.....	9.21	
				Note: 2-3/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0528	EA			3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3-1/2" Pipe.....	9.79	
				Note: 2-5/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0529	EA			3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3-1/2" Pipe.....	12.05	
				Note: 2-7/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0530	EA			4" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 4" Pipe.....	9.14	
				Note: 2-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0531	EA			4" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 4" Pipe.....	9.99	
				Note: 2-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0532	EA			4" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 4" Pipe.....	12.54	
				Note: 2-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 29 00-0533</b> <b>Rooftop Pipe Supports</b> <small>(23 05 29 00-0001)</small> Note: Excludes pipe/conduit clamps and straps.		
<b>23 05 29 00-0534</b> <b>Rooftop Support Base</b> <small>(23 05 29 00-0533)</small>		
23 05 29 00-0535    EA    4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM) .....	49.54	11.49
23 05 29 00-0536    EA    4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP) .....	68.96	15.31
<b>23 05 29 00-0537</b> <b>Rooftop Support Base With 14 Gauge Galvanized Channel</b> <small>(23 05 29 00-0533)</small>		
23 05 29 00-0538    EA    5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5) .....	56.15	11.49
23 05 29 00-0539    EA    5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10) .....	79.71	15.31
23 05 29 00-0540    EA    5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20) .....	146.37	19.14
23 05 29 00-0541    EA    5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30) .....	202.00	22.97
23 05 29 00-0542    EA    5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40) .....	279.30	26.80
23 05 29 00-0543    EA    5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48) .....	294.76	30.63
<b>23 05 29 00-0544</b> <b>Rooftop Support Base With 12 Gauge Galvanized Channel</b> <small>(23 05 29 00-0533)</small>		
23 05 29 00-0545    EA    6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610) .....	97.27	15.31
23 05 29 00-0546    EA    6-7/16" x 6" x 20.2" Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620) .....	154.21	19.14
23 05 29 00-0547    EA    6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630) .....	205.14	22.97
23 05 29 00-0548    EA    6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640) .....	279.48	26.80
23 05 29 00-0549    EA    6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648) .....	313.78	22.97
<b>23 05 29 00-0550</b> <b>Rooftop Bridge Support Base With 12 Gauge Galvanized Channel</b> <small>(23 05 29 00-0533)</small>		
23 05 29 00-0551    EA    5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28) .....	162.68	22.97
23 05 29 00-0552    EA    5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36) .....	185.34	26.80
23 05 29 00-0553    EA    5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42) .....	192.94	30.63
23 05 29 00-0554    EA    5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50) .....	211.26	34.46
23 05 29 00-0555    EA    5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60) .....	269.87	38.28
<b>23 05 29 00-0556</b> <b>Rooftop Pipe Support Base And Rod</b> <small>(23 05 29 00-0533)</small>		
23 05 29 00-0557    EA    9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT) .....	118.07	15.31
23 05 29 00-0558    EA    9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT) .....	118.07	15.31
23 05 29 00-0559    EA    9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT) .....	118.72	15.31
23 05 29 00-0560    EA    10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT) .....	127.05	19.14
23 05 29 00-0561    EA    10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT) .....	122.24	19.14
23 05 29 00-0562    EA    10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT) .....	128.41	19.14
<b>23 05 29 00-0563</b> <b>Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly</b> <small>(23 05 29 00-0533)</small>		
23 05 29 00-0564    EA    7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2) .....	149.54	15.31
23 05 29 00-0565    EA    7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6) .....	166.79	15.31
23 05 29 00-0566    EA    8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10) .....	218.55	19.14
23 05 29 00-0567    EA    9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14) .....	289.09	19.14
23 05 29 00-0568    EA    9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20) .....	393.85	19.14
<b>23 05 29 00-0569</b> <b>Rooftop Support Base And Adjustable Height Roller Assembly</b> <small>(23 05 29 00-0533)</small> Note: Includes base, two zinc all threaded rod risers and pipe roller.		
23 05 29 00-0570    EA    Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12) .....	186.59	22.97
<b>23 05 29 00-0571</b> <b>Rooftop Support Base And Adjustable Height Channel Assembly</b> <small>(23 05 29 00-0533)</small> Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.		
23 05 29 00-0572    EA    Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8) .....	122.56	19.14
23 05 29 00-0573    EA    Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12) .....	166.87	22.97
23 05 29 00-0574    EA    Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16) .....	186.14	26.80
<b>23 05 29 00-0575</b> <b>Rooftop Support Bases With Channel Support And Risers Assembly</b> <small>(23 05 29 00-0533)</small> Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length).		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0576 EA 23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS) .....	447.51	30.63
23 05 29 00-0577 EA 29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS) .....	452.48	30.63
23 05 29 00-0578 EA 41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS) .....	469.89	30.63
23 05 29 00-0579 EA 53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS) .....	509.87	30.63
23 05 29 00-0580 EA 23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS) .....	438.65	30.63
23 05 29 00-0581 EA 29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS) .....	455.31	30.63
23 05 29 00-0582 EA 41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS) .....	472.73	30.63
23 05 29 00-0583 EA 53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS) .....	512.69	30.63
23 05 29 00-0584 EA 23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS) .....	458.45	30.63
23 05 29 00-0585 EA 29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS) .....	464.27	30.63
23 05 29 00-0586 EA 41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS) .....	481.35	30.63
23 05 29 00-0587 EA 53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS) .....	521.49	30.63
23 05 29 00-0588 EA 23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS) .....	478.69	30.63
23 05 29 00-0589 EA 29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS) .....	483.99	30.63
23 05 29 00-0590 EA 41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS) .....	501.08	30.63
23 05 29 00-0591 EA 53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS) .....	541.21	30.63
23 05 29 00-0592	Threaded Rod, Accessories And Attachments (23 05 29)	
23 05 29 00-0593	Threaded Rod And Rod Accessories (23 05 29 00-0592)	
23 05 29 00-0594	Threaded Rod (23 05 29 00-0593)	
	Note: Fully threaded.	
23 05 29 00-0595 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	4.54	0.96
	<i>For Galvanized, Add</i>	1.05
	<i>For Zinc Plated, Add</i>	0.75
	<i>For Work In Restricted Working Space, Add</i>	0.57
23 05 29 00-0596 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	6.23	1.03
	<i>For Galvanized, Add</i>	1.68
	<i>For Zinc Plated, Add</i>	1.19
	<i>For Work In Restricted Working Space, Add</i>	0.61
23 05 29 00-0597 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	8.60	1.06
	<i>For Galvanized, Add</i>	2.60
	<i>For Zinc Plated, Add</i>	1.85
	<i>For Work In Restricted Working Space, Add</i>	0.63
23 05 29 00-0598 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	13.96	1.09
	<i>For Galvanized, Add</i>	4.72
	<i>For Zinc Plated, Add</i>	3.36
	<i>For Work In Restricted Working Space, Add</i>	0.65
23 05 29 00-0599 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	15.21	1.13
	<i>For Galvanized, Add</i>	5.18
	<i>For Zinc Plated, Add</i>	3.69
	<i>For Work In Restricted Working Space, Add</i>	0.68
23 05 29 00-0600 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	20.75	1.27
	<i>For Galvanized, Add</i>	7.28
	<i>For Zinc Plated, Add</i>	5.19
	<i>For Work In Restricted Working Space, Add</i>	0.77
23 05 29 00-0601 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	25.79	1.42
	<i>For Galvanized, Add</i>	9.18
	<i>For Zinc Plated, Add</i>	6.54
	<i>For Work In Restricted Working Space, Add</i>	0.85
23 05 29 00-0602	Rod Couplings (23 05 29 00-0593)	
23 05 29 00-0603 EA 3/8" Diameter, Threaded Rod Coupling Nut .....	11.22	
	<i>For Work In Restricted Working Space, Add</i>	2.82
23 05 29 00-0604 EA 1/2" Diameter, Threaded Rod Coupling Nut .....	12.71	
	<i>For Work In Restricted Working Space, Add</i>	3.13
23 05 29 00-0605 EA 5/8" Diameter, Threaded Rod Coupling Nut .....	15.78	
	<i>For Work In Restricted Working Space, Add</i>	3.53
23 05 29 00-0606 EA 3/4" Diameter, Threaded Rod Coupling Nut .....	19.13	
	<i>For Work In Restricted Working Space, Add</i>	3.85
23 05 29 00-0607 EA 7/8" Diameter, Threaded Rod Coupling Nut .....	27.65	
	<i>For Work In Restricted Working Space, Add</i>	4.23
23 05 29 00-0608 EA 1" Diameter, Threaded Rod Coupling Nut .....	32.80	
	<i>For Work In Restricted Working Space, Add</i>	4.98
23 05 29 00-0609 EA 1-1/8" Diameter, Threaded Rod Coupling Nut .....	61.70	
	<i>For Work In Restricted Working Space, Add</i>	5.64

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 29 00-0610 Flat Washers</b> (23 05 29 00-0593) Note: Zinc plated.		
23 05 29 00-0611 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	0.79	0.30
For Galvanized, Add	0.04	
For Work In Restricted Working Space, Add	0.19	
23 05 29 00-0612 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.06	0.30
For Galvanized, Add	0.09	
For Work In Restricted Working Space, Add	0.22	
23 05 29 00-0613 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	1.51	0.46
For Galvanized, Add	0.17	
For Work In Restricted Working Space, Add	0.26	
23 05 29 00-0614 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.05	0.46
For Galvanized, Add	0.24	
For Work In Restricted Working Space, Add	0.33	
23 05 29 00-0615 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.41	0.61
For Galvanized, Add	0.28	
For Work In Restricted Working Space, Add	0.38	
23 05 29 00-0616 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.81	0.61
For Galvanized, Add	0.35	
For Work In Restricted Working Space, Add	0.43	
23 05 29 00-0617 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	3.17	0.76
For Galvanized, Add	0.39	
For Work In Restricted Working Space, Add	0.48	
<b>23 05 29 00-0618 Hex Nuts</b> (23 05 29 00-0593) Note: Grade 2 and zinc plated.		
23 05 29 00-0619 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.00	0.38
For Galvanized, Add	0.03	
For Work In Restricted Working Space, Add	0.26	
23 05 29 00-0620 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.25	0.38
For Galvanized, Add	0.07	
For Work In Restricted Working Space, Add	0.29	
23 05 29 00-0621 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.67	0.38
For Galvanized, Add	0.17	
For Work In Restricted Working Space, Add	0.30	
23 05 29 00-0622 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.96	0.76
For Galvanized, Add	0.22	
For Work In Restricted Working Space, Add	0.32	
23 05 29 00-0623 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.81	0.76
For Galvanized, Add	0.42	
For Work In Restricted Working Space, Add	0.34	
23 05 29 00-0624 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.55	0.76
For Galvanized, Add	0.57	
For Work In Restricted Working Space, Add	0.38	
23 05 29 00-0625 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.72	0.76
For Galvanized, Add	1.08	
For Work In Restricted Working Space, Add	0.43	
<b>23 05 29 00-0626 Turnbuckle (Cooper B-Line B3202)</b> (23 05 29 00-0593) Note: Type 13.		
23 05 29 00-0627 EA 3/8" Turnbuckle (Cooper B-Line B3202).....	31.10	7.66
For Work In Restricted Working Space, Add	4.59	
23 05 29 00-0628 EA 1/2" Turnbuckle (Cooper B-Line B3202).....	36.65	8.42
For Work In Restricted Working Space, Add	5.11	
23 05 29 00-0629 EA 5/8" Turnbuckle (Cooper B-Line B3202).....	39.66	9.19
For Work In Restricted Working Space, Add	5.74	
23 05 29 00-0630 EA 3/4" Turnbuckle (Cooper B-Line B3202).....	49.37	10.72
For Work In Restricted Working Space, Add	6.56	
23 05 29 00-0631 EA 7/8" Turnbuckle (Cooper B-Line B3202).....	63.21	11.49
For Work In Restricted Working Space, Add	7.66	
23 05 29 00-0632 EA 1" Turnbuckle (Cooper B-Line B3202).....	78.20	12.26
For Work In Restricted Working Space, Add	9.19	
23 05 29 00-0633 EA 1-1/8" Turnbuckle (Cooper B-Line B3202).....	107.42	13.79
For Work In Restricted Working Space, Add	11.49	
<b>23 05 29 00-0634 Swivel Turnbuckle (Cooper B-Line B3224)</b> (23 05 29 00-0593) Note: Type 15.		
23 05 29 00-0635 EA 3/8" Swivel Turnbuckle (Cooper B-Line B3224).....	21.12	7.66
For Work In Restricted Working Space, Add	4.59	
23 05 29 00-0636 EA 1/2" Swivel Turnbuckle (Cooper B-Line B3224).....	24.27	8.57
For Work In Restricted Working Space, Add	5.11	
23 05 29 00-0637 EA 5/8" Swivel Turnbuckle (Cooper B-Line B3224).....	31.31	9.49
For Work In Restricted Working Space, Add	5.74	
23 05 29 00-0638 EA 3/4" Swivel Turnbuckle (Cooper B-Line B3224).....	37.52	10.88
For Work In Restricted Working Space, Add	6.56	
<b>23 05 29 00-0639 Forged Steel Clevis (Cooper B-Line B3201)</b> (23 05 29 00-0593) Note: Type 14.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0640 EA 3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201).....	97.88	14.10
<i>For Work In Restricted Working Space, Add</i>	8.46	
23 05 29 00-0641 EA 4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201).....	141.39	14.80
<i>For Work In Restricted Working Space, Add</i>	8.90	
23 05 29 00-0642 EA 5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201).....	152.72	15.51
<i>For Work In Restricted Working Space, Add</i>	9.40	
23 05 29 00-0643 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201).....	159.17	16.91
<i>For Work In Restricted Working Space, Add</i>	9.95	
23 05 29 00-0644 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201).....	168.21	19.04
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 05 29 00-0645 EA 6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201).....	276.94	24.67
<i>For Work In Restricted Working Space, Add</i>	14.80	
23 05 29 00-0646 EA 5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201).....	301.29	28.20
<i>For Work In Restricted Working Space, Add</i>	16.92	
23 05 29 00-0647 EA 7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201).....	356.21	35.25
<i>For Work In Restricted Working Space, Add</i>	21.15	
<b>23 05 29 00-0648 Welded Eye Rod (Cooper B-Line B3211) <small>(23 05 29 00-0593)</small></b>		
23 05 29 00-0649 EA 3/8" Diameter x 8" Length Shank, Welded Eye Rod.....	31.28	8.27
<i>For Work In Restricted Working Space, Add</i>	4.98	
23 05 29 00-0650 EA 3/8" Diameter x 10" Length Shank, Welded Eye Rod.....	32.23	8.42
<i>For Work In Restricted Working Space, Add</i>	5.07	
23 05 29 00-0651 EA 3/8" Diameter x 12" Length Shank, Welded Eye Rod.....	33.17	8.57
<i>For Work In Restricted Working Space, Add</i>	5.17	
23 05 29 00-0652 EA 3/8" Diameter x 14" Length Shank, Welded Eye Rod.....	33.49	8.73
<i>For Work In Restricted Working Space, Add</i>	5.27	
23 05 29 00-0653 EA 3/8" Diameter x 18" Length Shank, Welded Eye Rod.....	35.40	9.04
<i>For Work In Restricted Working Space, Add</i>	5.46	
23 05 29 00-0654 EA 3/8" Diameter x 24" Length Shank, Welded Eye Rod.....	37.65	9.65
<i>For Work In Restricted Working Space, Add</i>	5.74	
23 05 29 00-0655 EA 3/8" Diameter x 30" Length Shank, Welded Eye Rod.....	39.23	10.10
<i>For Work In Restricted Working Space, Add</i>	6.03	
23 05 29 00-0656 EA 3/8" Diameter x 36" Length Shank, Welded Eye Rod.....	42.12	10.56
<i>For Work In Restricted Working Space, Add</i>	6.32	
23 05 29 00-0657 EA 3/8" Diameter x 42" Length Shank, Welded Eye Rod.....	44.34	11.03
<i>For Work In Restricted Working Space, Add</i>	6.61	
23 05 29 00-0658 EA 3/8" Diameter x 48" Length Shank, Welded Eye Rod.....	46.58	11.49
<i>For Work In Restricted Working Space, Add</i>	6.89	
23 05 29 00-0659 EA 1/2" Diameter x 8" Length Shank, Welded Eye Rod.....	40.69	9.19
<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0660 EA 1/2" Diameter x 10" Length Shank, Welded Eye Rod.....	41.65	9.34
<i>For Work In Restricted Working Space, Add</i>	5.61	
23 05 29 00-0661 EA 1/2" Diameter x 12" Length Shank, Welded Eye Rod.....	42.65	9.49
<i>For Work In Restricted Working Space, Add</i>	5.71	
23 05 29 00-0662 EA 1/2" Diameter x 14" Length Shank, Welded Eye Rod.....	43.62	9.65
<i>For Work In Restricted Working Space, Add</i>	5.81	
23 05 29 00-0663 EA 1/2" Diameter x 18" Length Shank, Welded Eye Rod.....	45.57	9.95
<i>For Work In Restricted Working Space, Add</i>	6.02	
23 05 29 00-0664 EA 1/2" Diameter x 24" Length Shank, Welded Eye Rod.....	49.14	10.57
<i>For Work In Restricted Working Space, Add</i>	6.32	
23 05 29 00-0665 EA 1/2" Diameter x 30" Length Shank, Welded Eye Rod.....	52.08	11.03
<i>For Work In Restricted Working Space, Add</i>	6.63	
23 05 29 00-0666 EA 1/2" Diameter x 36" Length Shank, Welded Eye Rod.....	55.65	11.49
<i>For Work In Restricted Working Space, Add</i>	6.94	
23 05 29 00-0667 EA 1/2" Diameter x 42" Length Shank, Welded Eye Rod.....	58.56	12.10
<i>For Work In Restricted Working Space, Add</i>	7.24	
23 05 29 00-0668 EA 1/2" Diameter x 48" Length Shank, Welded Eye Rod.....	61.50	12.56
<i>For Work In Restricted Working Space, Add</i>	7.55	
23 05 29 00-0669 EA 5/8" Diameter x 8" Length Shank, Welded Eye Rod.....	53.71	10.27
<i>For Work In Restricted Working Space, Add</i>	6.17	
23 05 29 00-0670 EA 5/8" Diameter x 10" Length Shank, Welded Eye Rod.....	55.32	10.42
<i>For Work In Restricted Working Space, Add</i>	6.27	
23 05 29 00-0671 EA 5/8" Diameter x 12" Length Shank, Welded Eye Rod.....	56.97	10.57
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 05 29 00-0672 EA 5/8" Diameter x 14" Length Shank, Welded Eye Rod.....	57.96	10.88
<i>For Work In Restricted Working Space, Add</i>	6.48	
23 05 29 00-0673 EA 5/8" Diameter x 18" Length Shank, Welded Eye Rod.....	60.58	11.18
<i>For Work In Restricted Working Space, Add</i>	6.70	
23 05 29 00-0674 EA 5/8" Diameter x 24" Length Shank, Welded Eye Rod.....	64.83	11.64
<i>For Work In Restricted Working Space, Add</i>	7.01	
23 05 29 00-0675 EA 5/8" Diameter x 30" Length Shank, Welded Eye Rod.....	69.06	12.26
<i>For Work In Restricted Working Space, Add</i>	7.33	
23 05 29 00-0676 EA 5/8" Diameter x 36" Length Shank, Welded Eye Rod.....	72.67	12.71
<i>For Work In Restricted Working Space, Add</i>	7.65	
23 05 29 00-0677 EA 5/8" Diameter x 42" Length Shank, Welded Eye Rod.....	76.92	13.32
<i>For Work In Restricted Working Space, Add</i>	7.97	
23 05 29 00-0678 EA 5/8" Diameter x 48" Length Shank, Welded Eye Rod.....	81.15	13.79
<i>For Work In Restricted Working Space, Add</i>	8.28	
23 05 29 00-0679 EA 3/4" Diameter x 8" Length Shank, Welded Eye Rod.....	65.44	11.64
<i>For Work In Restricted Working Space, Add</i>	7.01	
23 05 29 00-0680 EA 3/4" Diameter x 10" Length Shank, Welded Eye Rod.....	67.72	11.79
<i>For Work In Restricted Working Space, Add</i>	7.11	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0681	EA	3/4"	Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	69.35 7.22	12.10
23 05 29 00-0682	EA	3/4"	Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	71.62 7.33	12.26
23 05 29 00-0683	EA	3/4"	Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	75.54 7.55	12.56
23 05 29 00-0684	EA	3/4"	Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	81.07 7.88	13.17
23 05 29 00-0685	EA	3/4"	Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	86.62 8.20	13.63
23 05 29 00-0686	EA	3/4"	Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	92.83 8.53	14.25
23 05 29 00-0687	EA	3/4"	Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	99.00 8.86	14.70
23 05 29 00-0688	EA	3/4"	Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	104.56 9.18	15.31
23 05 29 00-0689	EA	7/8"	Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	78.10 8.13	13.48
23 05 29 00-0690	EA	7/8"	Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	81.01 8.24	13.79
23 05 29 00-0691	EA	7/8"	Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	83.32 8.36	13.94
23 05 29 00-0692	EA	7/8"	Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	85.60 8.47	14.10
23 05 29 00-0693	EA	7/8"	Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	90.20 8.69	14.55
23 05 29 00-0694	EA	7/8"	Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	97.70 9.04	15.01
23 05 29 00-0695	EA	7/8"	Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	104.56 9.38	15.63
23 05 29 00-0696	EA	7/8"	Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	112.06 9.71	16.24
23 05 29 00-0697	EA	7/8"	Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	118.94 10.05	16.69
23 05 29 00-0698	EA	7/8"	Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	125.81 10.40	17.30
23 05 29 00-0699	EA	1"	Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	97.37 9.70	16.24
23 05 29 00-0700	EA	1"	Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	100.35 9.83	16.39
23 05 29 00-0701	EA	1"	Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	103.32 9.96	16.54
23 05 29 00-0702	EA	1"	Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	106.29 10.08	16.85
23 05 29 00-0703	EA	1"	Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	112.23 10.34	17.30
23 05 29 00-0704	EA	1"	Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	121.17 10.72	17.92
23 05 29 00-0705	EA	1"	Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	130.11 11.11	18.53
23 05 29 00-0706	EA	1"	Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	139.63 11.49	19.14
23 05 29 00-0707	EA	1"	Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	148.57 11.87	19.76
23 05 29 00-0708	EA	1"	Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	157.51 12.26	20.37
<b>23 05 29 00-0709</b>			<b>Welded Linked Eye Rod (Cooper B-Line B3211X)</b> <small>(23 05 29 00-0593)</small>		
23 05 29 00-0710	EA	3/8"	Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	61.96 6.74	11.18
23 05 29 00-0711	EA	3/8"	Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	63.63 6.93	11.49
23 05 29 00-0712	EA	3/8"	Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	65.32 7.12	11.94
23 05 29 00-0713	EA	3/8"	Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	66.29 7.41	12.40
23 05 29 00-0714	EA	3/8"	Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	69.34 7.70	12.87
23 05 29 00-0715	EA	3/8"	Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	73.42 8.27	13.78
23 05 29 00-0716	EA	3/8"	Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	76.37 8.84	14.70
23 05 29 00-0717	EA	3/8"	Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	81.49 9.42	15.77
23 05 29 00-0718	EA	1/2"	Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	78.89 7.45	12.41
23 05 29 00-0719	EA	1/2"	Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	80.61 7.65	12.71
23 05 29 00-0720	EA	1/2"	Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	82.39 7.85	13.02
23 05 29 00-0721	EA	1/2"	Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	84.48 8.16	13.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0722 EA 1/2" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	87.58	14.10
For Work In Restricted Working Space, Add	8.46	
23 05 29 00-0723 EA 1/2" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	93.89	15.16
For Work In Restricted Working Space, Add	9.08	
23 05 29 00-0724 EA 1/2" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	99.12	16.09
For Work In Restricted Working Space, Add	9.69	
23 05 29 00-0725 EA 1/2" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	105.42	17.15
For Work In Restricted Working Space, Add	10.30	
23 05 29 00-0726 EA 5/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	104.05	13.79
For Work In Restricted Working Space, Add	8.31	
23 05 29 00-0727 EA 5/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	106.85	14.25
For Work In Restricted Working Space, Add	8.53	
23 05 29 00-0728 EA 5/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	109.70	14.55
For Work In Restricted Working Space, Add	8.74	
23 05 29 00-0729 EA 5/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	111.83	15.16
For Work In Restricted Working Space, Add	9.05	
23 05 29 00-0730 EA 5/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	116.07	15.63
For Work In Restricted Working Space, Add	9.37	
23 05 29 00-0731 EA 5/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	123.49	16.69
For Work In Restricted Working Space, Add	10.00	
23 05 29 00-0732 EA 5/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	130.91	17.77
For Work In Restricted Working Space, Add	10.64	
23 05 29 00-0733 EA 5/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	137.28	18.84
For Work In Restricted Working Space, Add	11.27	
23 05 29 00-0734 EA 3/4" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	130.53	15.63
For Work In Restricted Working Space, Add	9.41	
23 05 29 00-0735 EA 3/4" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	134.49	16.09
For Work In Restricted Working Space, Add	9.63	
23 05 29 00-0736 EA 3/4" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	137.32	16.39
For Work In Restricted Working Space, Add	9.85	
23 05 29 00-0737 EA 3/4" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	141.59	17.00
For Work In Restricted Working Space, Add	10.18	
23 05 29 00-0738 EA 3/4" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	147.99	17.47
For Work In Restricted Working Space, Add	10.50	
23 05 29 00-0739 EA 3/4" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	157.57	18.53
For Work In Restricted Working Space, Add	11.15	
23 05 29 00-0740 EA 3/4" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	167.20	19.61
For Work In Restricted Working Space, Add	11.81	
23 05 29 00-0741 EA 3/4" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	177.89	20.83
For Work In Restricted Working Space, Add	12.46	
23 05 29 00-0742 EA 7/8" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	156.39	18.08
For Work In Restricted Working Space, Add	10.88	
23 05 29 00-0743 EA 7/8" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	161.42	18.53
For Work In Restricted Working Space, Add	11.11	
23 05 29 00-0744 EA 7/8" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	165.36	18.84
For Work In Restricted Working Space, Add	11.34	
23 05 29 00-0745 EA 7/8" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	169.67	19.46
For Work In Restricted Working Space, Add	11.68	
23 05 29 00-0746 EA 7/8" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	177.21	20.07
For Work In Restricted Working Space, Add	12.02	
23 05 29 00-0747 EA 7/8" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	190.08	21.14
For Work In Restricted Working Space, Add	12.70	
23 05 29 00-0748 EA 7/8" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	201.91	22.36
For Work In Restricted Working Space, Add	13.38	
23 05 29 00-0749 EA 7/8" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	214.79	23.44
For Work In Restricted Working Space, Add	14.06	
23 05 29 00-0750 EA 1" Diameter x 16" Length Shank, Linked Welded Eye Rod.....	198.39	21.60
For Work In Restricted Working Space, Add	12.97	
23 05 29 00-0751 EA 1" Diameter x 20" Length Shank, Linked Welded Eye Rod.....	203.50	22.06
For Work In Restricted Working Space, Add	13.22	
23 05 29 00-0752 EA 1" Diameter x 24" Length Shank, Linked Welded Eye Rod.....	208.60	22.51
For Work In Restricted Working Space, Add	13.48	
23 05 29 00-0753 EA 1" Diameter x 30" Length Shank, Linked Welded Eye Rod.....	214.14	23.13
For Work In Restricted Working Space, Add	13.86	
23 05 29 00-0754 EA 1" Diameter x 36" Length Shank, Linked Welded Eye Rod.....	223.87	23.74
For Work In Restricted Working Space, Add	14.24	
23 05 29 00-0755 EA 1" Diameter x 48" Length Shank, Linked Welded Eye Rod.....	239.20	24.97
For Work In Restricted Working Space, Add	15.01	
23 05 29 00-0756 EA 1" Diameter x 60" Length Shank, Linked Welded Eye Rod.....	254.53	26.34
For Work In Restricted Working Space, Add	15.78	
23 05 29 00-0757 EA 1" Diameter x 72" Length Shank, Linked Welded Eye Rod.....	270.82	27.57
For Work In Restricted Working Space, Add	16.54	
23 05 29 00-0758 Attachments (23 05 29 00-0592)		
23 05 29 00-0759 Welded Beam Attachments (B-Line B-3083) (23 05 29 00-0758)		
Note: Type 22.		
23 05 29 00-0760 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	63.20	14.26
For Work In Restricted Working Space, Add	8.56	
23 05 29 00-0761 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	67.43	14.98
For Work In Restricted Working Space, Add	9.01	
23 05 29 00-0762 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	71.79	15.84
For Work In Restricted Working Space, Add	9.51	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0763 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	91.63	16.83
<i>For Work In Restricted Working Space, Add</i>	10.07	
23 05 29 00-0764 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	109.96	17.83
<i>For Work In Restricted Working Space, Add</i>	10.70	
23 05 29 00-0765 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	154.19	20.41
<i>For Work In Restricted Working Space, Add</i>	12.23	
23 05 29 00-0766 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083).....	218.42	21.40
<i>For Work In Restricted Working Space, Add</i>	12.84	
<b>23 05 29 00-0767 C-Clamp Style Beam Clamps (B-Line B-3034) (23 05 29 00-0758)</b>		
Note: Type 23. Top or bottom flange mount.		
23 05 29 00-0768 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	23.38	7.81
<i>For Work In Restricted Working Space, Add</i>	5.74	
23 05 29 00-0769 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	27.76	9.95
<i>For Work In Restricted Working Space, Add</i>	6.13	
23 05 29 00-0770 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	31.42	10.72
<i>For Work In Restricted Working Space, Add</i>	6.56	
23 05 29 00-0771 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	40.13	11.49
<i>For Work In Restricted Working Space, Add</i>	7.07	
23 05 29 00-0772 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034).....	57.70	12.26
<i>For Work In Restricted Working Space, Add</i>	7.66	
<b>23 05 29 00-0773 Bottom Mount I-Beam Clamps (B-Line B-3055) (23 05 29 00-0758)</b>		
Note: Type 21. For attaching threaded rod centered under beam flanges.		
23 05 29 00-0774 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	62.75	10.72
<i>For Work In Restricted Working Space, Add</i>	7.66	
23 05 29 00-0775 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	91.64	13.79
<i>For Work In Restricted Working Space, Add</i>	8.36	
23 05 29 00-0776 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	130.38	15.31
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 05 29 00-0777 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	155.89	16.85
<i>For Work In Restricted Working Space, Add</i>	10.21	
23 05 29 00-0778 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055).....	374.75	18.38
<i>For Work In Restricted Working Space, Add</i>	11.49	
<b>23 05 29 00-0779 Steel U-Bolts (B-Line B-3188) (23 05 29 00-0758)</b>		
Note: Type 24. Includes plate and nuts.		
23 05 29 00-0780 EA 1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	19.04	3.83
<i>For Work In Restricted Working Space, Add</i>	4.59	
23 05 29 00-0781 EA 3/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	20.63	4.59
<i>For Work In Restricted Working Space, Add</i>	4.84	
23 05 29 00-0782 EA 1" Pipe Size, Steel U-Bolt (B-Line B-3188).....	22.19	4.59
<i>For Work In Restricted Working Space, Add</i>	5.11	
23 05 29 00-0783 EA 1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	25.13	4.59
<i>For Work In Restricted Working Space, Add</i>	5.40	
23 05 29 00-0784 EA 1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	25.99	5.36
<i>For Work In Restricted Working Space, Add</i>	5.74	
23 05 29 00-0785 EA 2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	27.82	5.36
<i>For Work In Restricted Working Space, Add</i>	6.13	
23 05 29 00-0786 EA 2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188).....	39.60	5.36
<i>For Work In Restricted Working Space, Add</i>	6.56	
23 05 29 00-0787 EA 3" Pipe Size, Steel U-Bolt (B-Line B-3188).....	43.63	6.12
<i>For Work In Restricted Working Space, Add</i>	7.07	
23 05 29 00-0788 EA 4" Pipe Size, Steel U-Bolt (B-Line B-3188).....	52.52	6.90
<i>For Work In Restricted Working Space, Add</i>	7.66	
<b>23 05 29 00-0789 Copper Standoff Brackets With Flange (23 05 29 00-0758)</b>		
Note: Installed in wood, concrete, concrete block or steel.		
23 05 29 00-0790 EA Clamp Size 1/2", Copper Standoff Brackets With Flange.....	45.58	21.90
<i>For Work In Restricted Working Space, Add</i>	13.13	
23 05 29 00-0791 EA Clamp Size 3/4", Copper Standoff Brackets With Flange.....	45.69	21.90
<i>For Work In Restricted Working Space, Add</i>	13.13	
23 05 29 00-0792 EA Clamp Size 1", Copper Standoff Brackets With Flange.....	45.80	21.90
<i>For Work In Restricted Working Space, Add</i>	13.13	
23 05 29 00-0793 EA Clamp Size 1 1/4", Copper Standoff Brackets With Flange.....	48.66	23.29
<i>For Work In Restricted Working Space, Add</i>	13.92	
23 05 29 00-0794 EA Clamp Size 1 1/2", Copper Standoff Brackets With Flange.....	48.88	23.29
<i>For Work In Restricted Working Space, Add</i>	13.92	
<b>23 05 29 00-0795 Malleable Iron Eye Sockets (B-Line B-3222) (23 05 29 00-0758)</b>		
Note: Type 16.		
23 05 29 00-0796 EA 3/8" Rod Size, Malleable Iron Eye Socket.....	14.03	2.30
<i>For Work In Restricted Working Space, Add</i>	1.40	
23 05 29 00-0797 EA 1/2" Rod Size, Malleable Iron Eye Socket.....	17.89	3.07
<i>For Work In Restricted Working Space, Add</i>	1.84	
23 05 29 00-0798 EA 5/8" Rod Size, Malleable Iron Eye Socket.....	30.36	3.07
<i>For Work In Restricted Working Space, Add</i>	1.86	
23 05 29 00-0799 EA 3/4" Rod Size, Malleable Iron Eye Socket.....	42.56	3.07
<i>For Work In Restricted Working Space, Add</i>	1.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0800 EA 7/8" Rod Size, Malleable Iron Eye Socket <i>For Work In Restricted Working Space, Add</i>	46.06 2.30	3.83
<b>23 05 29 00-0801 Steel Weldless Eye Nuts (B-Line B-3200) (23 05 29 00-0758)</b> Note: Type 17.		
23 05 29 00-0802 EA 3/8" Rod Size, Steel Weldless Eye Nut <i>For Work In Restricted Working Space, Add</i>	44.73 1.40	2.30
23 05 29 00-0803 EA 1/2" Rod Size, Steel Weldless Eye Nut <i>For Work In Restricted Working Space, Add</i>	46.20 1.84	3.07
23 05 29 00-0804 EA 5/8" Rod Size, Steel Weldless Eye Nut <i>For Work In Restricted Working Space, Add</i>	46.27 1.86	3.07
23 05 29 00-0805 EA 3/4" Rod Size, Steel Weldless Eye Nut <i>For Work In Restricted Working Space, Add</i>	46.20 1.84	3.07
23 05 29 00-0806 EA 7/8" Rod Size, Steel Weldless Eye Nut <i>For Work In Restricted Working Space, Add</i>	89.61 2.07	3.37
23 05 29 00-0807 EA 1" Rod Size, Steel Weldless Eye Nut <i>For Work In Restricted Working Space, Add</i>	90.38 2.30	3.83
<b>23 05 29 00-0808 Top Mount I-Beam Clamps (B-Line B-3042) (23 05 29 00-0758)</b> Note: For attaching threaded rod to either side of an I-beam.		
23 05 29 00-0809 EA 3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	31.28 4.28	7.13
23 05 29 00-0810 EA 1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	37.51 4.72	7.85
23 05 29 00-0811 EA 5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	45.30 5.19	8.56
23 05 29 00-0812 EA 3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	61.78 5.46	9.27
23 05 29 00-0813 EA 7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	94.25 6.42	10.70
23 05 29 00-0814 EA 3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	32.86 4.28	7.13
23 05 29 00-0815 EA 1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	39.74 4.72	7.85
23 05 29 00-0816 EA 5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	45.30 5.19	8.56
23 05 29 00-0817 EA 3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	67.65 5.46	9.27
23 05 29 00-0818 EA 7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	104.28 6.42	10.70
23 05 29 00-0819 EA 3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	36.53 4.28	7.13
23 05 29 00-0820 EA 1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	43.87 4.72	7.85
23 05 29 00-0821 EA 5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	54.98 5.19	8.56
23 05 29 00-0822 EA 3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	78.64 5.46	9.27
23 05 29 00-0823 EA 7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp <i>For Work In Restricted Working Space, Add</i>	125.77 6.42	10.70
<b>23 05 29 00-0824 Side Beam Brackets (B-Line B-3062) (23 05 29 00-0758)</b> Note: Type 34.		
23 05 29 00-0825 EA 3/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	25.99 5.74	9.95
23 05 29 00-0826 EA 1/2" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	30.59 6.13	9.95
23 05 29 00-0827 EA 5/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	39.23 6.56	10.72
23 05 29 00-0828 EA 3/4" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	68.44 7.07	11.49
23 05 29 00-0829 EA 7/8" Rod Size, Side Beam Bracket <i>For Work In Restricted Working Space, Add</i>	79.94 7.66	13.02
<b>23 05 29 00-0830 Hex Lag Bolts (23 05 29 00-0758)</b> Note: Also known as coach screws.		
23 05 29 00-0831 EA 3/8" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.08 0.96	
23 05 29 00-0832 EA 3/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.14 0.99	
23 05 29 00-0833 EA 3/8" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.64 1.03	
23 05 29 00-0834 EA 3/8" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.54 1.07	
23 05 29 00-0835 EA 3/8" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.89 1.10	
23 05 29 00-0836 EA 3/8" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	7.41 1.15	
23 05 29 00-0837 EA 1/2" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.54 1.15	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0838 EA 1/2" x 4" Long, Hex Lag Bolt.....	5.62	
For Work In Restricted Working Space, Add	1.20	
23 05 29 00-0839 EA 1/2" x 6" Long, Hex Lag Bolt.....	6.50	
For Work In Restricted Working Space, Add	1.25	
23 05 29 00-0840 EA 1/2" x 8" Long, Hex Lag Bolt.....	7.49	
For Work In Restricted Working Space, Add	1.31	
23 05 29 00-0841 EA 1/2" x 10" Long, Hex Lag Bolt.....	8.78	
For Work In Restricted Working Space, Add	1.37	
23 05 29 00-0842 EA 1/2" x 12" Long, Hex Lag Bolt.....	9.40	
For Work In Restricted Working Space, Add	1.43	
23 05 29 00-0843 EA 5/8" x 4" Long, Hex Lag Bolt.....	7.58	
For Work In Restricted Working Space, Add	1.28	
23 05 29 00-0844 EA 3/4" x 5" Long, Hex Lag Bolt.....	8.84	
For Work In Restricted Working Space, Add	1.31	
<b>23 05 29 00-0845 Hanger Strap</b> (23 05 29 00-0592)		
23 05 29 00-0846 LF 3/4" Wide x 0.025" Thick Galvanized Hanger Strap.....	7.33	
<b>23 05 29 00-0847 Shields And Saddles</b> (23 05 29)		
<b>23 05 29 00-0848 Insulation Protection Shield</b> (23 05 29 00-0847)		
Note: Type 40.		
<b>23 05 29 00-0849 Insulation Protection Shield (Cooper B-Line B3151)</b> (23 05 29 00-0848)		
23 05 29 00-0850 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	18.82	3.68
For Work In Restricted Working Space, Add	3.68	
23 05 29 00-0851 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.09	3.72
For Work In Restricted Working Space, Add	3.72	
23 05 29 00-0852 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	19.51	3.77
For Work In Restricted Working Space, Add	3.77	
23 05 29 00-0853 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	20.29	3.81
For Work In Restricted Working Space, Add	3.81	
23 05 29 00-0854 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	22.14	3.90
For Work In Restricted Working Space, Add	3.91	
23 05 29 00-0855 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151).....	26.26	4.00
For Work In Restricted Working Space, Add	4.00	
23 05 29 00-0856 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	30.00	4.09
For Work In Restricted Working Space, Add	4.09	
23 05 29 00-0857 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151).....	35.88	4.18
For Work In Restricted Working Space, Add	4.18	
23 05 29 00-0858 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	44.96	4.22
For Work In Restricted Working Space, Add	4.23	
23 05 29 00-0859 EA 14" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	48.64	4.27
For Work In Restricted Working Space, Add	4.28	
23 05 29 00-0860 EA 16" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	65.42	4.32
For Work In Restricted Working Space, Add	4.32	
23 05 29 00-0861 EA 18" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	73.02	4.36
For Work In Restricted Working Space, Add	4.37	
23 05 29 00-0862 EA 20" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	131.84	4.41
For Work In Restricted Working Space, Add	4.41	
23 05 29 00-0863 EA 24" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	143.03	4.50
For Work In Restricted Working Space, Add	4.50	
23 05 29 00-0864 EA 30" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151).....	172.04	4.60
For Work In Restricted Working Space, Add	4.59	
<b>23 05 29 00-0865 Insulation Protection Shield (Cooper B-Line B3154)</b> (23 05 29 00-0848)		
23 05 29 00-0866 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.02	3.68
For Work In Restricted Working Space, Add	3.68	
23 05 29 00-0867 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.25	3.72
For Work In Restricted Working Space, Add	3.72	
23 05 29 00-0868 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	17.60	3.77
For Work In Restricted Working Space, Add	3.77	
23 05 29 00-0869 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	18.21	3.81
For Work In Restricted Working Space, Add	3.81	
23 05 29 00-0870 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	19.64	3.90
For Work In Restricted Working Space, Add	3.91	
23 05 29 00-0871 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154).....	22.70	4.00
For Work In Restricted Working Space, Add	4.00	
23 05 29 00-0872 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	24.20	4.09
For Work In Restricted Working Space, Add	4.09	
23 05 29 00-0873 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	29.85	4.18
For Work In Restricted Working Space, Add	4.18	
23 05 29 00-0874 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154).....	35.05	4.22
For Work In Restricted Working Space, Add	4.23	
<b>23 05 29 00-0875 Pipe Covering Protection Saddle</b> (23 05 29 00-0847)		
Note: Sizes are pipe sizes.		
<b>23 05 29 00-0876 Saddle, For 1" Insulation (Cooper B-Line B3160)</b> (23 05 29 00-0875)		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0877 EA 3/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	28.29	5.05
<i>For Work In Restricted Working Space, Add</i>	5.05	
23 05 29 00-0878 EA 1" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	28.44	5.10
<i>For Work In Restricted Working Space, Add</i>	5.09	
23 05 29 00-0879 EA 1-1/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	28.58	5.14
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 05 29 00-0880 EA 1-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	29.83	5.22
<i>For Work In Restricted Working Space, Add</i>	5.22	
23 05 29 00-0881 EA 2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	29.98	5.26
<i>For Work In Restricted Working Space, Add</i>	5.27	
23 05 29 00-0882 EA 2-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	30.88	5.35
<i>For Work In Restricted Working Space, Add</i>	5.35	
23 05 29 00-0883 EA 3" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	33.88	5.43
<i>For Work In Restricted Working Space, Add</i>	5.44	
23 05 29 00-0884 EA 4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	37.50	5.53
<i>For Work In Restricted Working Space, Add</i>	5.52	
23 05 29 00-0885 EA 6" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	41.69	5.69
<i>For Work In Restricted Working Space, Add</i>	5.69	
23 05 29 00-0886 EA 8" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	49.81	5.90
<i>For Work In Restricted Working Space, Add</i>	5.91	
23 05 29 00-0887 EA 10" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	55.12	5.99
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 05 29 00-0888 EA 12" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	64.45	5.99
<i>For Work In Restricted Working Space, Add</i>	6.12	
23 05 29 00-0889 EA 14" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160) .....	69.92	6.21
<i>For Work In Restricted Working Space, Add</i>	6.21	
<b>23 05 29 00-0890 Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) <small>(23 05 29 00-0875)</small></b>		
23 05 29 00-0891 EA 3/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	31.34	5.05
<i>For Work In Restricted Working Space, Add</i>	5.05	
23 05 29 00-0892 EA 1" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	31.49	5.10
<i>For Work In Restricted Working Space, Add</i>	5.09	
23 05 29 00-0893 EA 1-1/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	31.63	5.14
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 05 29 00-0894 EA 1-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	32.67	5.22
<i>For Work In Restricted Working Space, Add</i>	5.22	
23 05 29 00-0895 EA 2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	34.94	5.26
<i>For Work In Restricted Working Space, Add</i>	5.27	
23 05 29 00-0896 EA 2-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	37.34	5.35
<i>For Work In Restricted Working Space, Add</i>	5.35	
23 05 29 00-0897 EA 3" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	37.98	5.43
<i>For Work In Restricted Working Space, Add</i>	5.44	
23 05 29 00-0898 EA 4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	42.54	5.43
<i>For Work In Restricted Working Space, Add</i>	5.52	
23 05 29 00-0899 EA 6" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	47.39	5.69
<i>For Work In Restricted Working Space, Add</i>	5.69	
23 05 29 00-0900 EA 8" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	55.40	5.90
<i>For Work In Restricted Working Space, Add</i>	5.91	
23 05 29 00-0901 EA 10" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	61.73	5.99
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 05 29 00-0902 EA 12" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	72.60	6.12
<i>For Work In Restricted Working Space, Add</i>	6.12	
23 05 29 00-0903 EA 14" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) .....	79.07	6.21
<i>For Work In Restricted Working Space, Add</i>	6.21	
<b>23 05 29 00-0904 Saddle, For 2" Insulation (Cooper B-Line B3162) <small>(23 05 29 00-0875)</small></b>		
23 05 29 00-0905 EA 3/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	33.45	5.31
<i>For Work In Restricted Working Space, Add</i>	5.31	
23 05 29 00-0906 EA 1" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	33.59	5.35
<i>For Work In Restricted Working Space, Add</i>	5.35	
23 05 29 00-0907 EA 1-1/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	35.17	5.39
<i>For Work In Restricted Working Space, Add</i>	5.39	
23 05 29 00-0908 EA 1-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	36.17	5.48
<i>For Work In Restricted Working Space, Add</i>	5.48	
23 05 29 00-0909 EA 2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	37.03	5.53
<i>For Work In Restricted Working Space, Add</i>	5.52	
23 05 29 00-0910 EA 2-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	37.32	5.62
<i>For Work In Restricted Working Space, Add</i>	5.61	
23 05 29 00-0911 EA 3" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	39.24	5.71
<i>For Work In Restricted Working Space, Add</i>	5.69	
23 05 29 00-0912 EA 4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	41.17	5.79
<i>For Work In Restricted Working Space, Add</i>	5.78	
23 05 29 00-0913 EA 6" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	51.31	5.97
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 05 29 00-0914 EA 8" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	57.67	6.21
<i>For Work In Restricted Working Space, Add</i>	6.21	
23 05 29 00-0915 EA 10" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	60.36	6.29
<i>For Work In Restricted Working Space, Add</i>	6.29	
23 05 29 00-0916 EA 12" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	79.70	6.42
<i>For Work In Restricted Working Space, Add</i>	6.42	
23 05 29 00-0917 EA 14" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162) .....	87.75	6.52
<i>For Work In Restricted Working Space, Add</i>	6.51	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0918 EA 16" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)..... <i>For Work In Restricted Working Space, Add</i>	96.09 6.68	6.68
23 05 29 00-0919 EA 18" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)..... <i>For Work In Restricted Working Space, Add</i>	104.42 6.85	6.85
23 05 29 00-0920 EA 20" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)..... <i>For Work In Restricted Working Space, Add</i>	114.11 7.02	7.02
23 05 29 00-0921 EA 24" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162)..... <i>For Work In Restricted Working Space, Add</i>	129.96 7.19	7.20
<b>23 05 29 00-0922 Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) (23 05 29 00-0875)</b>		
23 05 29 00-0923 EA 1-1/4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	37.13 5.52	5.53
23 05 29 00-0924 EA 1-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	39.02 5.61	5.61
23 05 29 00-0925 EA 2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	39.96 5.65	5.67
23 05 29 00-0926 EA 2-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	41.04 5.74	5.75
23 05 29 00-0927 EA 3" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	41.47 5.87	5.85
23 05 29 00-0928 EA 4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	47.50 5.95	5.93
23 05 29 00-0929 EA 6" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	53.81 6.12	6.12
23 05 29 00-0930 EA 8" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	62.03 6.34	6.35
23 05 29 00-0931 EA 10" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	66.22 6.47	6.45
23 05 29 00-0932 EA 12" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	81.76 6.59	6.57
23 05 29 00-0933 EA 14" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	96.16 6.68	6.68
23 05 29 00-0934 EA 16" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	110.83 6.85	6.84
23 05 29 00-0935 EA 18" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	117.53 7.02	7.00
23 05 29 00-0936 EA 20" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	124.97 7.19	7.20
23 05 29 00-0937 EA 24" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) ..... <i>For Work In Restricted Working Space, Add</i>	132.41 7.36	7.36
<b>23 05 29 00-0938 Saddle, For 3" Insulation (Cooper B-Line B3164) (23 05 29 00-0875)</b>		
23 05 29 00-0939 EA 2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	41.28 5.78	5.79
23 05 29 00-0940 EA 2-1/2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164) ..... <i>For Work In Restricted Working Space, Add</i>	44.74 5.91	5.89
23 05 29 00-0941 EA 3" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	46.54 5.99	5.97
23 05 29 00-0942 EA 4" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	48.33 6.08	6.08
23 05 29 00-0943 EA 6" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	54.96 6.25	6.26
23 05 29 00-0944 EA 8" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	67.94 6.51	6.49
23 05 29 00-0945 EA 10" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	73.28 6.59	6.59
23 05 29 00-0946 EA 12" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	94.00 6.72	6.74
23 05 29 00-0947 EA 14" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	111.38 6.85	6.84
23 05 29 00-0948 EA 16" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	128.75 6.98	6.99
23 05 29 00-0949 EA 18" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	131.29 7.19	7.17
23 05 29 00-0950 EA 20" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	133.68 7.36	7.35
23 05 29 00-0951 EA 24" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164)..... <i>For Work In Restricted Working Space, Add</i>	168.38 7.54	7.53
<b>23 05 29 00-0952 Saddle, For 4" Insulation (Cooper B-Line B3165) (23 05 29 00-0875)</b>		
23 05 29 00-0953 EA 2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	46.10 5.91	5.92
23 05 29 00-0954 EA 2-1/2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	50.17 6.04	6.02
23 05 29 00-0955 EA 3" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	52.28 6.12	6.12
23 05 29 00-0956 EA 4" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	54.47 6.21	6.21
23 05 29 00-0957 EA 6" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	65.65 6.42	6.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0958 EA 8" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	76.83 6.64	6.65
23 05 29 00-0959 EA 10" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	79.35 6.76	6.75
23 05 29 00-0960 EA 12" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	100.21 6.89	6.89
23 05 29 00-0961 EA 14" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	120.66 6.98	6.98
23 05 29 00-0962 EA 16" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	141.41 7.15	7.16
23 05 29 00-0963 EA 18" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	171.95 7.32	7.34
23 05 29 00-0964 EA 20" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	202.39 7.54	7.52
23 05 29 00-0965 EA 24" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	216.26 7.71	7.70
23 05 29 00-0966 EA 30" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	227.45 7.92	7.91
23 05 29 00-0967 EA 36" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165) ..... <i>For Work In Restricted Working Space, Add</i>	235.75 8.09	8.10
<b>23 05 29 00-0968 Adjustable Pipe Saddle Support (Cooper B-Line B3096) <small>(23 05 29 00-0847)</small></b>		
23 05 29 00-0969 EA 2" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....	102.66	19.14
23 05 29 00-0970 EA 3" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....	109.65	22.21
23 05 29 00-0971 EA 4" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....	132.70	25.28
23 05 29 00-0972 EA 5" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....	138.86	27.57
23 05 29 00-0973 EA 6" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....	154.11	30.64
23 05 29 00-0974 EA 8" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....	177.03	38.29
23 05 29 00-0975 EA 10" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....	232.02	51.31
23 05 29 00-0976 EA 12" Adjustable Pipe Saddle Support (Cooper B-Line B3096) .....	293.84	76.59
<b>23 05 29 00-0977 Pipe Stanchion Support (Cooper B-Line B3090) <small>(23 05 29 00-0847)</small></b>		
23 05 29 00-0978 EA 2-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....	124.66	19.14
23 05 29 00-0979 EA 3" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....	130.14	22.21
23 05 29 00-0980 EA 3-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....	139.59	23.74
23 05 29 00-0981 EA 4" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....	143.17	25.28
23 05 29 00-0982 EA 5" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....	150.91	27.57
23 05 29 00-0983 EA 6" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....	160.75	30.64
23 05 29 00-0984 EA 8" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....	203.80	38.29
23 05 29 00-0985 EA 10" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....	274.61	51.31
23 05 29 00-0986 EA 12" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090) .....	364.35	76.59
<b>23 05 29 00-0987 Pipe Saddle Support (Cooper B-Line B3095) <small>(23 05 29 00-0847)</small></b>		
23 05 29 00-0988 EA 2-1/2" Pipe Saddle Support (Cooper B-Line B3095) .....	68.90	19.14
23 05 29 00-0989 EA 3" Pipe Saddle Support (Cooper B-Line B3095) .....	74.38	22.21
23 05 29 00-0990 EA 3-1/2" Pipe Saddle Support (Cooper B-Line B3095) .....	107.26	23.74
23 05 29 00-0991 EA 4" Pipe Saddle Support (Cooper B-Line B3095) .....	110.84	25.28
23 05 29 00-0992 EA 5" Pipe Saddle Support (Cooper B-Line B3095) .....	121.60	27.57
23 05 29 00-0993 EA 6" Pipe Saddle Support (Cooper B-Line B3095) .....	134.84	30.64
23 05 29 00-0994 EA 8" Pipe Saddle Support (Cooper B-Line B3095) .....	156.32	38.29
23 05 29 00-0995 EA 10" Pipe Saddle Support (Cooper B-Line B3095) .....	185.73	51.31
23 05 29 00-0996 EA 12" Pipe Saddle Support (Cooper B-Line B3095) .....	240.99	76.59
<b>23 05 29 00-0997 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0847)</small></b>		
<small>Note: Insert is for use as isolated protective insulation at hangers.</small>		
<b>23 05 29 00-0998 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small></b>		
23 05 29 00-0999 EA 1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	20.80	9.46
23 05 29 00-1000 EA 3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	21.10	9.46
23 05 29 00-1001 EA 1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	21.18	9.46
23 05 29 00-1002 EA 1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	21.48	9.46
23 05 29 00-1003 EA 1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	22.96	10.04
23 05 29 00-1004 EA 2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	23.95	10.34
23 05 29 00-1005 EA 2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	25.07	10.78
23 05 29 00-1006 EA 3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	26.31	11.21
23 05 29 00-1007 EA 4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	28.35	11.64
23 05 29 00-1008 EA 6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	28.99	10.04
23 05 29 00-1009 EA 8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	43.59	13.10
23 05 29 00-1010 EA 10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	51.49	15.43
23 05 29 00-1011 EA 12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	58.86	17.91
23 05 29 00-1012 EA 14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	65.48	18.49
<b>23 05 29 00-1013 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small></b>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1014 EA 1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	17.45	7.14
23 05 29 00-1015 EA 3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	18.94	7.14
23 05 29 00-1016 EA 1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.34	7.28
23 05 29 00-1017 EA 1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.93	7.43
23 05 29 00-1018 EA 1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	20.49	7.43
23 05 29 00-1019 EA 2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	21.47	7.72
23 05 29 00-1020 EA 2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	22.65	8.00
23 05 29 00-1021 EA 3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.27	8.15
23 05 29 00-1022 EA 4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.53	8.88
23 05 29 00-1023 EA 6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.02	15.29
23 05 29 00-1024 EA 8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.21	11.50
23 05 29 00-1025 EA 10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	41.27	13.54
23 05 29 00-1026 EA 12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	46.98	15.57
23 05 29 00-1027 EA 14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	55.61	18.78
<b>23 05 29 00-1028 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)</b>		
23 05 29 00-1029 EA 1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.44	8.15
23 05 29 00-1030 EA 3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.68	8.15
23 05 29 00-1031 EA 1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.41	8.30
23 05 29 00-1032 EA 1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.05	8.45
23 05 29 00-1033 EA 1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.72	8.59
23 05 29 00-1034 EA 2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.70	8.88
23 05 29 00-1035 EA 2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	28.05	9.17
23 05 29 00-1036 EA 3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	29.33	9.46
23 05 29 00-1037 EA 4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.08	10.04
23 05 29 00-1038 EA 6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.66	11.36
23 05 29 00-1039 EA 8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	57.82	19.37
23 05 29 00-1040 EA 10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	63.79	22.42
23 05 29 00-1041 EA 12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	73.89	26.50
23 05 29 00-1042 EA 14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	82.87	29.70
23 05 29 00-1043 EA 16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	92.69	33.49
23 05 29 00-1044 EA 18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	106.65	39.31
23 05 29 00-1045 EA 20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	118.44	43.68
23 05 29 00-1046 EA 24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	133.88	49.51
<b>23 05 29 00-1047 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)</b>		
23 05 29 00-1048 EA 1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.88	9.46
23 05 29 00-1049 EA 3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	27.15	9.46
23 05 29 00-1050 EA 1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	28.05	9.61
23 05 29 00-1051 EA 1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	28.70	9.75
23 05 29 00-1052 EA 1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	29.36	9.75
23 05 29 00-1053 EA 2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	30.56	10.20
23 05 29 00-1054 EA 2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.10	10.49
23 05 29 00-1055 EA 3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.56	10.92
23 05 29 00-1056 EA 4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.68	11.50
23 05 29 00-1057 EA 6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	41.96	13.10
23 05 29 00-1058 EA 8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	53.75	14.56
23 05 29 00-1059 EA 10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	63.73	16.74
23 05 29 00-1060 EA 12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	73.84	20.82
23 05 29 00-1061 EA 14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	82.86	22.86
23 05 29 00-1062 EA 16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	99.33	29.12
23 05 29 00-1063 EA 18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	106.23	30.58
23 05 29 00-1064 EA 20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	120.76	34.95
23 05 29 00-1065 EA 24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	142.93	42.23
<b>23 05 29 00-1066 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)</b>		
23 05 29 00-1067 EA 1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	52.88	9.75
23 05 29 00-1068 EA 3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	62.77	10.20
23 05 29 00-1069 EA 1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	65.11	10.20
23 05 29 00-1070 EA 1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	66.65	10.49
23 05 29 00-1071 EA 1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	68.45	10.78
23 05 29 00-1072 EA 2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	70.46	10.92
23 05 29 00-1073 EA 2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	74.12	11.21
23 05 29 00-1074 EA 3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	77.35	11.94
23 05 29 00-1075 EA 4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	85.08	12.38
23 05 29 00-1076 EA 6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	97.31	15.14
23 05 29 00-1077 EA 8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	124.91	16.60
23 05 29 00-1078 EA 10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	148.40	17.48
23 05 29 00-1079 EA 12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	170.82	22.57
23 05 29 00-1080 EA 14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	192.09	24.02
23 05 29 00-1081 EA 16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	230.95	32.03
23 05 29 00-1082 EA 18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	248.58	34.95
23 05 29 00-1083 EA 20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	281.42	37.86
23 05 29 00-1084 EA 24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	330.71	46.59



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**23 05 29 00-1085 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate** (23 05 29 00-0997)

23 05 29 00-1086	EA	1/2"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.88	9.46
23 05 29 00-1087	EA	3/4"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.50	11.50
23 05 29 00-1088	EA	1"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.71	11.50
23 05 29 00-1089	EA	1-1/4"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.42	11.64
23 05 29 00-1090	EA	1-1/2"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	35.34	11.79
23 05 29 00-1091	EA	2"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.61	12.23
23 05 29 00-1092	EA	2-1/2"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.48	12.67
23 05 29 00-1093	EA	3"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	40.13	13.10
23 05 29 00-1094	EA	4"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	44.04	13.84
23 05 29 00-1095	EA	6"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	50.33	15.73
23 05 29 00-1096	EA	8"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	64.47	17.48
23 05 29 00-1097	EA	10"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	76.48	20.09
23 05 29 00-1098	EA	12"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	88.60	25.05
23 05 29 00-1099	EA	14"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	99.44	27.37
23 05 29 00-1100	EA	16"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	119.21	34.95
23 05 29 00-1101	EA	18"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	127.48	36.69
23 05 29 00-1102	EA	20"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	145.00	41.94
23 05 29 00-1103	EA	24"	Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	171.52	50.67

**23 05 29 00-1104 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate** (23 05 29 00-0997)

23 05 29 00-1105	EA	1/2"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.22	12.81
23 05 29 00-1106	EA	3/4"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.60	12.81
23 05 29 00-1107	EA	1"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	37.84	12.96
23 05 29 00-1108	EA	1-1/4"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.81	13.10
23 05 29 00-1109	EA	1-1/2"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.49	13.10
23 05 29 00-1110	EA	2"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	41.73	13.98
23 05 29 00-1111	EA	2-1/2"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	43.27	14.13
23 05 29 00-1112	EA	3"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	45.30	14.71
23 05 29 00-1113	EA	4"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	49.51	15.57
23 05 29 00-1114	EA	6"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	56.59	17.62
23 05 29 00-1115	EA	8"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	71.43	19.07
23 05 29 00-1116	EA	10"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	86.06	22.71
23 05 29 00-1117	EA	12"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	99.70	28.24
23 05 29 00-1118	EA	14"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	111.92	30.73
23 05 29 00-1119	EA	16"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	134.19	39.31
23 05 29 00-1120	EA	18"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	143.35	41.20
23 05 29 00-1121	EA	20"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	161.50	47.18
23 05 29 00-1122	EA	24"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	192.99	57.08
23 05 29 00-1123	EA	26"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	221.21	67.13
23 05 29 00-1124	EA	28"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	253.15	79.21
23 05 29 00-1125	EA	30"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	288.43	93.62
23 05 29 00-1126	EA	42"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	418.10	144.59
23 05 29 00-1127	EA	44"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	452.01	159.15
23 05 29 00-1128	EA	46"	Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	482.77	171.82

**23 05 29 00-1129 Equipment Housekeeping Pads** (23 05 29)

See CSI section 03 31 13 00-0089 for Concrete Equipment Pads.

**23 05 29 00-1130 Molded Plastic Condenser Pad** (23 05 29 00-1129)

23 05 29 00-1131	EA	30"	Round Molded Plastic Pad.....	151.71	19.14
23 05 29 00-1132	EA	30"	Octagon Molded Plastic Pad.....	159.17	19.14
23 05 29 00-1133	EA	30" x 30"	Molded Plastic Pad.....	151.71	19.14
23 05 29 00-1134	EA	36" x 36"	Molded Plastic Pad.....	196.41	19.14
23 05 29 00-1135	EA	36" x 48"	Molded Plastic Pad.....	280.05	19.14

**23 05 29 00-1136 Inertia Base** (23 05 29 00-1129)

Note: Includes spring isolators.

23 05 29 00-1137	EA	Up To 12 SF	Inertia Base, 8" Thick With Spring Base.....	3,993.75	
23 05 29 00-1138	EA	>12 To 16 SF	Inertia Base, 8" Thick With Spring Base.....	4,829.95	
23 05 29 00-1139	EA	>16 To 20 SF	Inertia Base, 8" Thick With Spring Base.....	5,532.66	
23 05 29 00-1140	EA	>20 To 24 SF	Inertia Base, 8" Thick With Spring Base.....	6,324.37	

**23 05 29 00-1141 Hanger Assemblies** (23 05 29)

Note: Includes hanger, rod, nuts, washers, clamps, upper attachment, etc. Not for use where detail is available.

23 05 29 00-1142	EA	1/2"	Standard Duty Clevis Pipe Hanger Assembly.....	65.70	23.81
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	15.32	
23 05 29 00-1143	EA	3/4"	Standard Duty Clevis Pipe Hanger Assembly.....	68.53	25.22
			Note: Includes hanger, rod, nuts, washers and clamp.		
			For Work In Restricted Working Space, Add	16.17	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 29 Hangers and Supports for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1144 EA 1" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	70.72 16.81	26.68
23 05 29 00-1145 EA 1-1/4" Standard Duty Clevis Pipe Hanger Assembly ..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	71.86 17.06	26.72
23 05 29 00-1146 EA 1-1/2" Standard Duty Clevis Pipe Hanger Assembly ..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	72.11 17.06	26.72
23 05 29 00-1147 EA 2" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	73.43 17.31	26.94
23 05 29 00-1148 EA 2-1/2" Standard Duty Clevis Pipe Hanger Assembly ..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	79.50 16.03	26.24
23 05 29 00-1149 EA 3" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	81.60 16.28	26.99
23 05 29 00-1150 EA 4" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	99.00 17.98	30.48
23 05 29 00-1151 EA 6" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	147.00 23.62	39.38
23 05 29 00-1152 EA 8" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	167.90 27.41	45.68
23 05 29 00-1153 EA 10" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	228.56 34.38	58.03
23 05 29 00-1154 EA 12" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	248.76 37.53	62.44
<b>23 05 29 00-1155 Steel Shapes For Hanger Devices (23 05 29)</b>		
<b>23 05 29 00-1156 Angle Iron For Hanger Devices (23 05 29 00-1155)</b>		
23 05 29 00-1157 LF 1/2" x 1/2" x 1/8" Angle Iron For Hanger Devices .....	3.54	2.23
23 05 29 00-1158 LF 3/4" x 3/4" x 1/8" Angle Iron For Hanger Devices .....	4.61	2.78
23 05 29 00-1159 LF 1" x 1" x 1/8" Angle Iron For Hanger Devices .....	5.67	3.33
23 05 29 00-1160 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron For Hanger Devices.....	7.80	4.14
23 05 29 00-1161 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron For Hanger Devices.....	8.69	4.45
23 05 29 00-1162 LF 2" x 2" x 1/4" Angle Iron For Hanger Devices .....	11.56	4.99
23 05 29 00-1163 LF 2-1/2" x 2-1/2" x 1/4" Angle Iron For Hanger Devices .....	14.38	6.08
23 05 29 00-1164 LF 3" x 2" x 3/8" Angle Iron For Hanger Devices .....	18.55	7.13
23 05 29 00-1165 LF 3" x 3" x 3/8" Angle Iron For Hanger Devices .....	22.14	8.34
<b>23 05 29 00-1166 Channels For Hanger Devices (23 05 29 00-1155)</b>		
23 05 29 00-1167 LF C2 x 1.78, 2" Wide Channels For Hanger Devices .....	9.27	4.93
23 05 29 00-1168 LF C3 x 4.1, 3" Wide Channels For Hanger Devices .....	15.76	7.10
23 05 29 00-1169 LF C4 x 5.4, 4" Wide Channels For Hanger Devices .....	19.66	8.53
23 05 29 00-1170 LF C5 x 6.7 - 5" Wide Channels For Hanger Devices .....	23.54	9.94
23 05 29 00-1171 LF C6 x 8.2 - 6" Wide Channels For Hanger Devices .....	28.49	11.94
23 05 29 00-1172 LF C7 x 9.8 - 7" Wide Channels For Hanger Devices .....	33.98	14.21
23 05 29 00-1173 LF C8 x 11.5 - 8" Wide Channels For Hanger Devices.....	38.49	15.64
<b>23 05 29 00-1174 Structural Bar Tees For Hanger Devices (23 05 29 00-1155)</b>		
23 05 29 00-1175 LF 3/4" x 3/4" x 1/8" Structural Bar Tee For Hanger Devices.....	10.45	6.94
23 05 29 00-1176 LF 1" x 1" x 1/8" Structural Bar Tee For Hanger Devices.....	12.58	8.21
23 05 29 00-1177 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee For Hanger Devices .....	17.81	9.47
23 05 29 00-1178 LF 2" x 2" x 1/4" Structural Bar Tee For Hanger Devices.....	22.95	12.63
23 05 29 00-1179 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee For Hanger Devices .....	31.28	15.15
23 05 29 00-1180 LF 3" x 3" x 3/8" Structural Bar Tee For Hanger Devices.....	39.26	19.58
<b>23 05 29 00-1181 Structural Zees For Hanger Devices (23 05 29 00-1155)</b>		
23 05 29 00-1182 LF 1-1/4" x 1-3/4" x 1-3/4" Structural Zee For Hanger Devices.....	17.83	9.47
23 05 29 00-1183 LF 2-1/16" x 3" x 2-1/16" Structural Zee For Hanger Devices .....	21.28	9.47
23 05 29 00-1184 LF 3-1/16" x 4" x 3-1/16" Structural Zee For Hanger Devices .....	31.04	9.47
23 05 29 00-1185 LF 3-1/4" x 5" x 3-1/4" Structural Zee For Hanger Devices .....	39.10	9.47
23 05 29 00-1186 LF 3-1/2" x 6" x 3-1/2" Structural Zee For Hanger Devices.....	47.48	9.47
<b>23 05 29 00-1187 Junior I-beams For Hanger Devices (23 05 29 00-1155)</b>		
23 05 29 00-1188 LF 3" I-beam (Junior) For Hanger Devices .....	22.34	13.89
23 05 29 00-1189 LF 4" I-beam (Junior) For Hanger Devices .....	25.63	15.15
23 05 29 00-1190 LF 5" I-beam (Junior) For Hanger Devices .....	29.51	16.42
23 05 29 00-1191 LF 6" I-beam (Junior) For Hanger Devices .....	32.25	18.31
23 05 29 00-1192 LF 7" I-beam (Junior) For Hanger Devices .....	38.17	19.58



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1193	LF		8" I-beam (Junior) For Hanger Devices .....	41.30	20.84
<b>23 05 33 Heat Tracing for HVAC Piping</b> <small>(23 05)</small>					
See CSI section 23 83 13 00-0000 for heat tracing cables.					
<b>23 05 48 Vibration and Seismic Controls for HVAC</b> <small>(23 05)</small>					
<b>23 05 48 13 Vibration Controls for HVAC</b> <small>(23 05 48)</small>					
23 05 48 13-0001			<b>Unhoused Stable Steel Spring Isolators</b> <small>(23 05 48 13)</small>		
Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.					
23 05 48 13-0002	EA		60 LB Unhoused Steel Spring Isolator .....	124.10	42.87
23 05 48 13-0003	EA		115 LB Unhoused Steel Spring Isolator .....	130.35	42.87
23 05 48 13-0004	EA		1,130 LB Unhoused Steel Spring Isolator .....	151.07	42.87
23 05 48 13-0005			<b>Housed Stable Steel Spring Isolators</b> <small>(23 05 48 13)</small>		
Note: Includes leveling adjustment, top plate, base plate and pad. For use with floor mounted equipment only. Mason Industries, Inc.					
23 05 48 13-0006	EA		To 770 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	523.14	42.87
23 05 48 13-0007	EA		To 1,040 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	590.54	42.87
23 05 48 13-0008	EA		To 1,600 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	624.24	42.87
23 05 48 13-0009	EA		To 2,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	759.03	42.87
23 05 48 13-0010	EA		To 3,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	792.73	42.87
23 05 48 13-0011	EA		To 730 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	582.12	42.87
23 05 48 13-0012	EA		To 930 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	641.09	42.87
23 05 48 13-0013	EA		To 1,440 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	683.21	42.87
23 05 48 13-0014	EA		To 1,860 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	876.97	42.87
23 05 48 13-0015	EA		To 2,880 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	952.79	42.87
23 05 48 13-0016	EA		To 3,720 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	1,129.71	42.87
23 05 48 13-0017			<b>Vibration Isolators</b> <small>(23 05 48 13)</small>		
23 05 48 13-0018			<b>Spring And Rubber Hanger For 1" Deflection</b> <small>(23 05 48 13-0017)</small>		
23 05 48 13-0019	EA		50 To 500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size .....	146.86	27.57
23 05 48 13-0020	EA		600 To 1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size .....	292.55	30.64
23 05 48 13-0021			<b>Rubber-In-Shear Isolator Hanger</b> <small>(23 05 48 13-0017)</small>		
23 05 48 13-0022	EA		45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size .....	86.22	22.98
23 05 48 13-0023	EA		130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size .....	110.40	27.57
23 05 48 13-0024			<b>Spring Hanger For 1" Deflection</b> <small>(23 05 48 13-0017)</small>		
23 05 48 13-0025	EA		50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size .....	98.67	27.57
23 05 48 13-0026			<b>Rubber-In-Shear Vibration Isolator</b> <small>(23 05 48 13-0017)</small>		
23 05 48 13-0027	EA		45 To 340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection .....	181.99	52.08
23 05 48 13-0028	EA		130 To 700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection .....	237.29	52.08
23 05 48 13-0029	EA		550 To 1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection .....	427.09	52.08
23 05 48 13-0030			<b>Two-Piece Spring Type Vibration Isolator</b> <small>(23 05 48 13-0017)</small>		
Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.					
23 05 48 13-0031	EA		50 To 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator .....	158.68	52.08
23 05 48 13-0032	EA		>1,000 To 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator .....	162.80	52.08
23 05 48 13-0033			<b>Open Double Spring Type Vibration Isolator</b> <small>(23 05 48 13-0017)</small>		
Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.					
23 05 48 13-0034	EA		150 To 450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	114.68	26.04
23 05 48 13-0035	EA		500 To 1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	114.68	26.04
23 05 48 13-0036	EA		1,100 To 1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	128.42	26.04
23 05 48 13-0037	EA		1,700 To 2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	128.42	26.04
23 05 48 13-0038	EA		2,500 To 3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	190.56	26.04
23 05 48 13-0039			<b>Isolation Pads</b> <small>(23 05 48 13-0017)</small>		
23 05 48 13-0040			<b>Laminated Neoprene And Cork Isolation Pad</b> <small>(23 05 48 13-0039)</small>		
23 05 48 13-0041	EA		2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	8.98	3.83
23 05 48 13-0042	EA		3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	11.14	3.98
23 05 48 13-0043	EA		4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	13.65	4.13
23 05 48 13-0044	EA		12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	49.48	4.75
23 05 48 13-0045	EA		18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	93.23	5.36
23 05 48 13-0046			<b>Neoprene And Steel Plate Isolation Pad</b> <small>(23 05 48 13-0039)</small>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0047 EA 6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad .....	196.55	3.83
23 05 48 13-0048 EA 6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad .....	217.47	3.83
<b>23 05 48 13-0049 Neoprene Isolation Pad (23 05 48 13-0039)</b>		
23 05 48 13-0050 EA 2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad .....	8.47	3.83
23 05 48 13-0051 EA 3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad .....	9.51	3.83
23 05 48 13-0052 EA 4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad .....	11.15	3.83
23 05 48 13-0053 EA 12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad .....	48.71	4.60
23 05 48 13-0054 EA 18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad .....	87.74	5.36
<b>23 05 48 13-0055 Threaded Flexible Bronze Hose Connectors (23 05 48 13)</b>		
Note: Includes hex threaded nipple ends.		
23 05 48 13-0056 EA 3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	84.90	24.50
23 05 48 13-0057 EA 1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	102.09	33.69
23 05 48 13-0058 EA 3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	124.98	41.36
23 05 48 13-0059 EA 1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	146.01	49.02
23 05 48 13-0060 EA 1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	168.03	64.33
23 05 48 13-0061 EA 1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	189.76	68.48
23 05 48 13-0062 EA 2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	251.68	81.19
23 05 48 13-0063 EA 2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	341.96	126.52
<b>23 05 48 13-0064 Weld End Flexible Hose Connectors (23 05 48 13)</b>		
23 05 48 13-0065 EA 1/2" Diameter x 10" Flexible Hose Connection, Weld Ends .....	292.78	87.92
23 05 48 13-0066 EA 3/4" Diameter x 10" Flexible Hose Connection, Weld Ends .....	340.29	96.50
23 05 48 13-0067 EA 1" Diameter x 10" Flexible Hose Connection, Weld Ends .....	381.38	102.17
23 05 48 13-0068 EA 1-1/4" Diameter x 11" Flexible Hose Connection, Weld Ends .....	427.16	116.42
23 05 48 13-0069 EA 1-1/2" Diameter x 12" Flexible Hose Connection, Weld Ends .....	482.48	125.61
23 05 48 13-0070 EA 2" Diameter x 14" Flexible Hose Connection, Weld Ends .....	607.51	163.44
23 05 48 13-0071 EA 2-1/2" Diameter x 16" Flexible Hose Connection, Weld Ends .....	893.10	183.82
23 05 48 13-0072 EA 3" Diameter x 16" Flexible Hose Connection, Weld Ends .....	1,095.60	206.79
23 05 48 13-0073 EA 4" Diameter x 18" Flexible Hose Connection, Weld Ends .....	1,523.57	306.36
<b>23 05 48 13-0074 Flanged Flexible Hose Connectors (23 05 48 13)</b>		
<b>23 05 48 13-0075 Flanged Flexible Molded Rubber Hose Connectors (23 05 48 13-0074)</b>		
Note: With helical wire reinforcement 150 PSI.		
23 05 48 13-0076 EA 1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	258.55	114.88
23 05 48 13-0077 EA 2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	281.03	127.60
23 05 48 13-0078 EA 2-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	476.07	254.89
23 05 48 13-0079 EA 3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	671.03	379.12
23 05 48 13-0080 EA 4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	871.02	489.40
23 05 48 13-0081 EA 6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	1,061.91	508.90
23 05 48 13-0082 EA 8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	1,276.16	581.24
23 05 48 13-0083 EA 10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	1,628.26	691.70
23 05 48 13-0084 EA 12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	4,241.68	865.14
<b>23 05 48 13-0085 Flanged Flexible Corrugated Stainless Steel Hose Connectors (23 05 48 13-0074)</b>		
Note: With braided metal wire.		
23 05 48 13-0086 EA 1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	207.27	104.46
23 05 48 13-0087 EA 1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	218.09	143.68
23 05 48 13-0088 EA 1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	385.43	191.47
23 05 48 13-0089 EA 2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	515.64	287.21
23 05 48 13-0090 EA 2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	557.40	316.00
23 05 48 13-0091 EA 3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	653.71	382.64
23 05 48 13-0092 EA 4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	837.12	489.87
23 05 48 13-0093 EA 6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	1,133.86	609.47
23 05 48 13-0094 EA 8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	1,771.32	814.25
23 05 48 13-0095 EA 10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	2,078.08	941.55
23 05 48 13-0096 EA 12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	2,596.95	1,017.81
<b>23 05 48 13-0097 Flanged Flexible Molded Teflon Hose Connectors (23 05 48 13-0074)</b>		
Note: 150 PSI.		
23 05 48 13-0098 EA 2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	1,010.78	222.11
23 05 48 13-0099 EA 3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	1,137.72	260.40
23 05 48 13-0100 EA 4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	1,740.09	437.65





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 48 13-0101	EA		6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	2,118.41	508.90
23 05 48 13-0102	EA		8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	2,750.15	624.26

23 05 48 13-0103 Flexible Hose Connectors Braided Metal Hose Type (23 05 48 13)

23 05 48 13-0104 Braided Metal Hose Type Flexible Bronze Hose Connectors (23 05 48 13-0103)

Note: MPT connection.

23 05 48 13-0105	EA		1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	38.68	3.07
23 05 48 13-0106	EA		1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	45.85	3.07
23 05 48 13-0107	EA		1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	51.46	3.98
23 05 48 13-0108	EA		1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	62.03	3.98
23 05 48 13-0109	EA		3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	51.54	3.68
23 05 48 13-0110	EA		3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	61.78	3.68
23 05 48 13-0111	EA		3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	71.12	4.74
23 05 48 13-0112	EA		3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	87.06	4.74
23 05 48 13-0113	EA		1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	69.91	4.29
23 05 48 13-0114	EA		1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	76.19	4.29
23 05 48 13-0115	EA		1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	90.94	5.67
23 05 48 13-0116	EA		1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	114.25	5.67
23 05 48 13-0117	EA		1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	137.39	5.67
23 05 48 13-0118	EA		1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	160.60	5.67
23 05 48 13-0119	EA		1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	99.18	5.50
23 05 48 13-0120	EA		1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	108.96	5.50
23 05 48 13-0121	EA		1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	138.79	5.50
23 05 48 13-0122	EA		1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	192.75	7.33
23 05 48 13-0123	EA		1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	222.80	7.33
23 05 48 13-0124	EA		1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	262.79	7.33
23 05 48 13-0125	EA		2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	135.21	6.63
23 05 48 13-0126	EA		2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	155.66	6.63
23 05 48 13-0127	EA		2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	195.27	6.63
23 05 48 13-0128	EA		2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	260.41	8.88
23 05 48 13-0129	EA		2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	320.77	8.88
23 05 48 13-0130	EA		2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	381.08	8.88
23 05 48 13-0131	EA		2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	186.87	8.32
23 05 48 13-0132	EA		2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	212.06	7.89
23 05 48 13-0133	EA		2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	237.50	7.89
23 05 48 13-0134	EA		2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	293.41	10.57
23 05 48 13-0135	EA		2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	344.57	10.57
23 05 48 13-0136	EA		2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	394.13	10.57
23 05 48 13-0137	EA		3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	293.43	10.57
23 05 48 13-0138	EA		3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	327.41	10.57
23 05 48 13-0139	EA		3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	1,564.68	10.57
23 05 48 13-0140	EA		3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	1,883.01	14.10
23 05 48 13-0141	EA		3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	505.56	14.10
23 05 48 13-0142	EA		3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	572.43	14.10
23 05 48 13-0143	EA		4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	529.95	11.25
23 05 48 13-0144	EA		4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	569.66	11.25
23 05 48 13-0145	EA		4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	609.36	11.25
23 05 48 13-0146	EA		4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	697.75	14.99
23 05 48 13-0147	EA		4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	776.86	14.99
23 05 48 13-0148	EA		4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	857.67	14.99

23 05 48 13-0149 Braided Stainless Steel Flexible Hose Connectors (23 05 48 13-0103)

Note: Over braided carbon steel connection.

23 05 48 13-0150	EA		2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	160.30	6.71
23 05 48 13-0151	EA		2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	192.79	6.71
23 05 48 13-0152	EA		2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	224.66	6.71
23 05 48 13-0153	EA		2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	294.15	8.99
23 05 48 13-0154	EA		2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	358.77	8.99
23 05 48 13-0155	EA		2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	423.31	8.99
23 05 48 13-0156	EA		2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	181.90	7.89
23 05 48 13-0157	EA		2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	215.86	7.89
23 05 48 13-0158	EA		2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	249.97	7.89
23 05 48 13-0159	EA		2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	324.04	10.57
23 05 48 13-0160	EA		2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	391.98	10.57
23 05 48 13-0161	EA		2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	458.98	10.57
23 05 48 13-0162	EA		4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	194.42	10.57

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0163	EA	4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	233.32	10.86
23 05 48 13-0164	LF	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	272.78	10.57
23 05 48 13-0165	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	361.32	14.10
23 05 48 13-0166	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	439.80	14.10
23 05 48 13-0167	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	520.51	14.10
23 05 48 13-0168	EA	6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	391.58	20.55
23 05 48 13-0169	EA	6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	571.47	20.69
23 05 48 13-0170	EA	6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	766.11	27.25
23 05 48 13-0171	EA	6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	946.08	27.25
23 05 48 13-0172	EA	6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,126.00	27.25
23 05 48 13-0173	EA	8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	666.87	22.67
23 05 48 13-0174	EA	8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	802.98	22.67
23 05 48 13-0175	EA	8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,088.02	29.47
23 05 48 13-0176	EA	8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,358.02	29.47
23 05 48 13-0177	EA	8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,627.95	29.47
23 05 48 13-0178	EA	10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	716.33	28.34
23 05 48 13-0179	EA	10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,056.61	28.34
23 05 48 13-0180	EA	10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,414.69	36.90
23 05 48 13-0181	EA	10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,756.15	36.90
23 05 48 13-0182	EA	10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	2,096.18	36.90
23 05 48 13-0183	EA	12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,410.51	34.26
23 05 48 13-0184	EA	12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,835.17	34.26
23 05 48 13-0185	EA	12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	2,297.44	46.10
23 05 48 13-0186	EA	12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	2,725.83	46.10
23 05 48 13-0187	EA	12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	3,156.22	46.10
<b>23 05 48 13-0188</b>		<b>Braided Metal Hose Type Flexible Bronze Hose Connectors</b> (23 05 48 13-0103) Note: Flanged end connection (carbon steel ends).		
23 05 48 13-0189	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	694.89	6.63
23 05 48 13-0190	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,209.00	187.93
23 05 48 13-0191	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,503.44	187.93
23 05 48 13-0192	EA	2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,797.87	187.93
23 05 48 13-0193	EA	2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,092.43	187.93
23 05 48 13-0194	EA	2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,070.84	239.67
23 05 48 13-0195	EA	2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,381.11	239.67
23 05 48 13-0196	EA	2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,691.49	239.67
23 05 48 13-0197	EA	2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,002.00	239.67
23 05 48 13-0198	EA	2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,307.07	239.67
23 05 48 13-0199	EA	4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,453.14	401.80
23 05 48 13-0200	EA	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,815.30	402.80
23 05 48 13-0201	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,183.35	401.80
23 05 48 13-0202	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,594.85	401.80
23 05 48 13-0203	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,909.28	401.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0204 EA 6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	2,313.02	513.66
23 05 48 13-0205 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	3,133.59	513.66
23 05 48 13-0206 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	3,954.62	515.51
23 05 48 13-0207 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,775.30	513.66
23 05 48 13-0208 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	5,595.87	513.66
23 05 48 13-0209 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	3,888.91	579.33
23 05 48 13-0210 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	4,509.68	579.33
23 05 48 13-0211 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	5,740.47	579.33
23 05 48 13-0212 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	6,971.73	579.33
23 05 48 13-0213 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	8,202.41	579.33
23 05 48 13-0214 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	6,529.99	705.26
23 05 48 13-0215 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	8,076.61	705.26
23 05 48 13-0216 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	9,633.62	705.26
23 05 48 13-0217 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	11,187.28	705.26
23 05 48 13-0218 EA 10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	12,442.92	705.26
23 05 48 13-0219 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	8,936.72	856.39
23 05 48 13-0220 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	10,899.34	856.39
23 05 48 13-0221 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	12,861.84	856.39
23 05 48 13-0222 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	14,824.34	856.39
23 05 48 13-0223 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends).....	16,786.95	856.39

**23 05 53 Identification for HVAC Piping and Equipment** (23 05)

23 05 53 00-0001	Systems Identification <small>(23 05 53)</small>
23 05 53 00-0002	Pipe Marker Snap-On Type Plastic <small>(23 05 53 00-0001)</small> Note: Outside diameters of insulation where necessary.
23 05 53 00-0003 EA 1/2" Outside Diameter Snap-On Plastic Marker.....	22.80
23 05 53 00-0004 EA 3/4" Outside Diameter Snap-On Plastic Marker.....	23.19
23 05 53 00-0005 EA 1" Outside Diameter Snap-On Plastic Marker.....	23.39
23 05 53 00-0006 EA 1-1/4" Outside Diameter Snap-On Plastic Marker.....	23.74
23 05 53 00-0007 EA 1-1/2" Outside Diameter Snap-On Plastic Marker.....	27.12
23 05 53 00-0008 EA 2" Outside Diameter Snap-On Plastic Marker.....	27.81
23 05 53 00-0009 EA 2-1/2" Outside Diameter Snap-On Plastic Marker.....	42.28
23 05 53 00-0010 EA 3" Outside Diameter Snap-On Plastic Marker.....	42.83
23 05 53 00-0011 EA 3-1/2" Outside Diameter Snap-On Plastic Marker.....	43.41
23 05 53 00-0012 EA 4" Outside Diameter Snap-On Plastic Marker.....	43.72
23 05 53 00-0013 EA 4-1/2" Outside Diameter Snap-On Plastic Marker.....	44.05
23 05 53 00-0014 EA 5" Outside Diameter Snap-On Plastic Marker.....	44.39
23 05 53 00-0015 EA 6" Outside Diameter Snap-On Plastic Marker.....	46.40
23 05 53 00-0016 EA 7" Outside Diameter Snap-On Plastic Marker.....	46.77
23 05 53 00-0017 EA 8" Outside Diameter Snap-On Plastic Marker.....	56.70
23 05 53 00-0018 EA 10" Outside Diameter Snap-On Plastic Marker.....	58.92
23 05 53 00-0019 EA 12" Outside Diameter Snap-On Plastic Marker.....	68.11
23 05 53 00-0020 EA 14" Outside Diameter Snap-On Plastic Marker.....	78.03
23 05 53 00-0021	Pipe Markers Pressure-Sensitive <small>(23 05 53 00-0001)</small> Note: Outside diameter includes insulation where necessary.
23 05 53 00-0022 EA 1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	16.91
23 05 53 00-0023 EA 3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	17.68
23 05 53 00-0024 EA 1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.22
23 05 53 00-0025 EA 1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	19.52
23 05 53 00-0026 EA 1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	20.73
23 05 53 00-0027 EA 2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	21.19
23 05 53 00-0028 EA 2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	23.65
23 05 53 00-0029 EA 3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.25
23 05 53 00-0030 EA 3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	24.71
23 05 53 00-0031 EA 4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	25.18
23 05 53 00-0032 EA 4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	26.13
23 05 53 00-0033 EA 5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	27.17
23 05 53 00-0034 EA 6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation.....	28.07

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 53 Identification for HVAC Piping and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 53 00-0035 EA 7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	28.96	
23 05 53 00-0036 EA 8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	31.71	
23 05 53 00-0037 EA 10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	33.39	
23 05 53 00-0038 EA 12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	38.84	
<b>23 05 53 00-0039 Valve Identification Tag</b> <small>(23 05 53 00-0001)</small> Note: Includes beaded chain and/or "S" hook.		
23 05 53 00-0040 EA 2" Diameter Identification Tag, Brass.....	14.99	
23 05 53 00-0041 EA 1-1/2" Diameter Identification Tag, Plastic.....	14.24	
23 05 53 00-0042 EA 1-1/2" Diameter Identification Tag, Brass .....	14.01	
<b>23 05 66 Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment</b> <small>(23 05)</small>		
<b>23 05 66 00-0001 Double Ended Ultraviolet HVAC Microbial Control Fixtures</b> <small>(23 05 66)</small>		
23 05 66 00-0002 EA 18" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-181-VO).....	1,068.70	102.60
Note: Includes tube.		
23 05 66 00-0003 EA 24" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-241-VO).....	1,115.77	107.68
Note: Includes tube.		
23 05 66 00-0004 EA 30" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-301-VO).....	1,119.95	112.29
Note: Includes tube.		
23 05 66 00-0005 EA 36" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-361-VO).....	1,172.23	117.99
Note: Includes tube.		
23 05 66 00-0006 EA 42" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-421-VO).....	1,267.53	123.05
Note: Includes tube.		
23 05 66 00-0007 EA 62" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-621-VO).....	1,160.03	126.90
Note: Includes tube.		
<b>23 05 66 00-0008 Single Ended Ultraviolet HVAC Microbial Control Fixtures</b> <small>(23 05 66)</small>		
23 05 66 00-0009 EA 12" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-121-VO) .....	889.92	71.06
Note: Includes tube.		
23 05 66 00-0010 EA 16" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-161-VO) .....	902.85	76.91
Note: Includes tube.		
23 05 66 00-0011 EA 20" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-201-VO) .....	926.29	81.52
Note: Includes tube.		
23 05 66 00-0012 EA 24" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-241-VO) .....	938.49	87.68
Note: Includes tube.		
23 05 66 00-0013 EA 30" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-301-VO) .....	962.68	92.29
Note: Includes tube.		
23 05 66 00-0014 EA 36" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-361-VO) .....	980.87	96.91
Note: Includes tube.		
23 05 66 00-0015 EA 42" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-421-VO) .....	1,004.31	103.06
Note: Includes tube.		
23 05 66 00-0016 EA 12" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-121-VO) .....	1,012.20	71.06
Note: Includes tube.		
23 05 66 00-0017 EA 16" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-161-VO) .....	1,025.13	76.91
Note: Includes tube.		
23 05 66 00-0018 EA 20" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-201-VO) .....	1,048.57	81.52
Note: Includes tube.		
23 05 66 00-0019 EA 24" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-241-VO) .....	1,060.77	87.68
Note: Includes tube.		
23 05 66 00-0020 EA 30" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-301-VO) .....	1,084.96	92.29
Note: Includes tube.		
23 05 66 00-0021 EA 36" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-361-VO) .....	1,103.15	96.91
Note: Includes tube.		
23 05 66 00-0022 EA 42" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-421-VO) .....	1,126.59	103.06
Note: Includes tube.		
23 05 66 00-0023 EA 16" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-161-VO) .....	711.44	76.91
Note: Includes tube.		
23 05 66 00-0024 EA 20" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-201-VO) .....	734.88	81.52
Note: Includes tube.		
23 05 66 00-0025 EA 24" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-241-VO) .....	747.08	87.68
Note: Includes tube.		
23 05 66 00-0026 EA 30" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-301-VO) .....	771.27	92.29
Note: Includes tube.		
23 05 66 00-0027 EA 36" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-361-VO) .....	789.46	96.91
Note: Includes tube.		
23 05 66 00-0028 EA 42" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-421-VO) .....	812.90	103.06
Note: Includes tube.		
<b>23 05 66 00-0029 Fan Coil Unit Ultraviolet Microbial Control Fixtures</b> <small>(23 05 66)</small>		
23 05 66 00-0030 EA 16" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) .....	665.38	98.44
Note: Includes tube.		
23 05 66 00-0031 EA 20" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) .....	680.67	103.06
Note: Includes tube.		
23 05 66 00-0032 EA 24" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) .....	695.95	107.68
Note: Includes tube.		



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 66 00-0033	EA 30" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) ..... Note: Includes tube.	716.17	112.29
23 05 66 00-0034	EA 36" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) ..... Note: Includes tube.	742.00	117.99
23 05 66 00-0035	EA 42" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) ..... Note: Includes tube.	764.87	123.05
<b>23 05 66 00-0036 Ultraviolet HVAC Microbial Control Replacement Parts <small>(23 05 66)</small></b>			
23 05 66 00-0037	EA 18" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-16-VO).....	175.87	
23 05 66 00-0038	EA 24" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-22-VO).....	184.85	
23 05 66 00-0039	EA 30" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-28-VO).....	209.60	
23 05 66 00-0040	EA 36" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-34-VO).....	241.38	
23 05 66 00-0041	EA 42" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-40-VO).....	273.86	
23 05 66 00-0042	EA 62" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-60-VO).....	269.19	
23 05 66 00-0043	EA 12" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-12-VO).....	128.34	
23 05 66 00-0044	EA 16" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-16-VO).....	135.13	
23 05 66 00-0045	EA 20" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-20-VO).....	152.41	
23 05 66 00-0046	EA 24" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-24-VO).....	158.46	
23 05 66 00-0047	EA 30" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-30-VO).....	176.49	
23 05 66 00-0048	EA 36" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-36-VO).....	188.53	
23 05 66 00-0049	EA 42" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-42-VO).....	205.82	
23 05 66 00-0050	EA Removal And Replacement Of Power Supply For Ultraviolet Microbial Control Fixture (Steril-Aire).....	510.09	
<b>23 05 66 00-0051 Ultraviolet HVAC Microbial Control Mounting Accessories <small>(23 05 66)</small></b>			
23 05 66 00-0052	EA Two Spring Clip, 61" Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006610)..... Note: Includes 61" emitter, power supply, wires and connectors.	737.25	
23 05 66 00-0053	EA Two Spring Clip, 61" Sleeved Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006620)..... Note: Includes 61" emitter, power supply, wires and connectors.	933.06	
23 05 66 00-0054	EA Two Spring Clip, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-1)..... Note: Includes power supply, wires and connectors. Excludes emitter.	438.94	
23 05 66 00-0055	EA Two Short Hook Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-2)..... Note: Includes power supply, wires and connectors. Excludes emitter.	462.92	
23 05 66 00-0056	EA Flat Plate For Metal, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-3)..... Note: Includes power supply, wires and connectors. Excludes emitter.	576.12	
23 05 66 00-0057	EA Flat Plate For Plastic, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-4)..... Note: Includes power supply, wires and connectors. Excludes emitter.	365.62	
23 05 66 00-0058	EA Insert Lamp Holder, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-5)..... Note: Includes power supply, wires and connectors. Excludes emitter.	395.10	
23 05 66 00-0059	EA 16" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-6)..... Note: Includes power supply, wires and connectors. Excludes emitter.	520.49	
23 05 66 00-0060	EA 12" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-7)..... Note: Includes power supply, wires and connectors. Excludes emitter.	513.68	
23 05 66 00-0061	LF 30 x 30 mm Framing Structure For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000101).....	19.46	
23 05 66 00-0062	EA Vertical Support Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000111).....	66.40	
23 05 66 00-0063	EA Joint Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000112).....	23.60	
23 05 66 00-0064	EA Emitter Mounting Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000113).....	22.41	
23 05 66 00-0065	EA Foundation Bracket FB 8WA For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000104).....	61.54	
23 05 66 00-0066	EA Slider Assembly Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000114).....	69.93	
23 05 66 00-0067	EA Splice Kit For Horizontal Rows For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000108).....	62.37	
23 05 66 00-0068	EA Gusset Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000115).....	51.03	
23 05 66 00-0069	EA ISO "A" Bracket Hanger For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000109).....	48.33	
23 05 66 00-0070	EA DE Boot Kit UV Resistant For 1 DE Fixture For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000223).....	27.16	
23 05 66 00-0071	EA DE Wiring Kit For Up To 65" (DE Bank Install) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000603).....	54.06	
23 05 66 00-0072	EA Cleaning Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000100).....	27.27	
23 05 66 00-0073	EA 480 To 220 Volt AC / 180 VA Step-Down Transformer For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000503).....	103.45	
23 05 66 00-0074	EA Interlock Switch (16 Amps At 125 Volt, 10 Amperes At 250 Volt Maximum Ampacity) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000120).....	108.53	
<b>23 05 66 00-0075 Ultraviolet Duct Disinfection Unit (eLEDLights) <small>(23 05 66)</small></b>			
23 05 66 00-0076	EA Two 12" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V12-P1).....	1,481.03	142.29
23 05 66 00-0077	EA Two 18" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V18-P1).....	1,653.18	149.97
23 05 66 00-0078	EA Two 24" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V24-P1).....	1,717.51	161.51
23 05 66 00-0079	EA Two 30" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V30-P1).....	1,798.34	173.05
23 05 66 00-0080	EA Two 36" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V36-P1).....	1,854.43	184.58
23 05 66 00-0081	EA Two 48" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD2L120V48-P1).....	2,224.62	192.28
23 05 66 00-0082	EA Four 18" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD4L120V18-P1).....	2,212.63	149.97
23 05 66 00-0083	EA Four 24" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD4L120V24-P1).....	2,301.71	161.51
23 05 66 00-0084	EA Four 30" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD4L120V30-P1).....	2,654.84	173.05
23 05 66 00-0085	EA Four 36" Lamps, Duct Mounted, UVC Air Duct Disinfection Unit (eLEDLights UVAD4L120V36-P1).....	2,760.43	184.58
<b>23 05 66 00-0086 Ultraviolet Germicidal Airborne Duct System (Fresh-Aire UV) <small>(23 05 66)</small></b>			
Note: Includes 2 Year Warranty			
23 05 66 00-0087	EA Two 18" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-218D-HO).....	1,093.95	149.97
23 05 66 00-0088	EA Four 18" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-218Q-HO).....	1,797.95	149.97
23 05 66 00-0089	EA Six 18" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-218H-HO).....	2,502.89	149.97
23 05 66 00-0090	EA Two 24" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-224D-HO).....	1,128.40	161.51
23 05 66 00-0091	EA Four 24" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-224Q-HO).....	1,841.86	161.51

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 05 Common Work Results for HVAC****23 05 66 Anti-Microbial Ultraviolet Emitters for HVAC Ducts and Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 66 00-0092 EA Six 24" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-224H-HO).....	2,556.28	161.51
23 05 66 00-0093 EA Two 32" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-232D-HO).....	1,160.94	173.05
23 05 66 00-0094 EA Four 32" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-232Q-HO).....	1,885.78	173.05
23 05 66 00-0095 EA Six 32" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-232H-HO).....	2,609.67	173.05
23 05 66 00-0096 EA Two 46" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-246D-HO).....	1,285.62	192.28
23 05 66 00-0097 EA Four 46" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-246Q-HO).....	2,079.63	192.28
23 05 66 00-0098 EA Six 46" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-246H-HO).....	2,873.63	192.28
23 05 66 00-0099 EA Two 60" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-260D-HO).....	1,497.47	211.51
23 05 66 00-0100 EA Four 60" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-260Q-HO).....	2,465.82	211.51
23 05 66 00-0101 EA Six 60" Lamps, Duct Mounted, High Output Airborne Disinfection System (Fresh-Aire UV TUVV-ADS-260H-HO).....	3,433.22	211.51

**23 05 93 Testing, Adjusting, and Balancing for HVAC** (23 05)

Note: Includes all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of existing systems or for third party testing and report when required.

**23 05 93 00-0001 Heating And Ventilating Equipment** (23 05 93)

23 05 93 00-0002 EA Balancing Centrifugal Fans.....	614.34	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-307.17	
23 05 93 00-0003 EA Balancing Heating And Ventilating Units.....	767.62	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-383.81	
23 05 93 00-0004 EA Balancing In Line Fan.....	691.14	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-345.57	
23 05 93 00-0005 EA Balancing Propeller And Wall Fan.....	153.58	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-76.79	
23 05 93 00-0006 EA Balancing Roof Exhaust Fan.....	460.72	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-230.36	
23 05 93 00-0007 EA Balancing Wall Fan.....	115.16	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-57.58	
23 05 93 00-0008 EA Balancing Fan Section Exhaust.....	613.37	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-306.69	

**23 05 93 00-0009 Air Conditioning Equipment** (23 05 93)

23 05 93 00-0010 EA Balancing Constant Volume Air Handling Unit.....	1,128.31	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-564.16	
23 05 93 00-0011 EA Balancing Package A/C Unit.....	423.12	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-211.56	
23 05 93 00-0012 EA Balancing Rooftop Heat And Cool Unit.....	564.16	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-282.08	
23 05 93 00-0013 EA Balancing Variable Volume Air Handling Unit.....	1,974.55	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-987.28	

**23 05 93 00-0014 Registers, Diffusers, Terminal Air Units And Dampers** (23 05 93)

23 05 93 00-0015 EA Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser.....	115.20	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-57.60	
23 05 93 00-0016 EA Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser.....	191.98	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-95.99	
23 05 93 00-0017 EA Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser.....	99.84	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-49.92	
23 05 93 00-0018 EA Balance Variable Air Volume Box.....	108.16	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-54.08	
23 05 93 00-0019 EA Balance Constant Volume Box.....	108.16	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-54.08	
23 05 93 00-0020 EA Balance Fan Powered Box.....	122.86	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-61.43	
23 05 93 00-0021 EA Balance Lab Fume Hood.....	499.18	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-249.59	
23 05 93 00-0022 EA Balance General Hood.....	383.96	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-191.98	
23 05 93 00-0023 EA Balance Induction Unit.....	230.39	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-115.20	
23 05 93 00-0024 EA Balance Moduline - Master.....	92.13	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-46.07	
23 05 93 00-0025 EA Balance Moduline - Slave.....	46.07	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-23.04	
23 05 93 00-0026 EA Balance Dampers.....	42.78	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-21.39	
23 05 93 00-0027 EA Balance Regenerators.....	613.37	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-306.69	

**23 05 93 00-0028 Water Balancing Of Components** (23 05 93)

23 05 93 00-0029 EA Water Balance, Air Cool Condenser.....	775.79	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-387.90	
23 05 93 00-0030 EA Water Balance, Cabinet Heater.....	98.73	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-49.37	
23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled.....	846.17	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-423.09	
23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled.....	1,128.31	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-564.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0033 EA Water Balance, Cooling Tower .....	564.16	
For Testing Of Unit Without Balancing, Deduct .....	-282.08	
23 05 93 00-0034 EA Water Balance, Fan Coil And Vent .....	141.12	
For Testing Of Unit Without Balancing, Deduct .....	-70.56	
23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel .....	141.04	
For Testing Of Unit Without Balancing, Deduct .....	-70.52	
23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil .....	155.14	
For Testing Of Unit Without Balancing, Deduct .....	-77.57	
23 05 93 00-0037 EA Water Balance, Pumps .....	423.13	
For Testing Of Unit Without Balancing, Deduct .....	-211.57	
23 05 93 00-0038 EA Water Balance, Unit Heater .....	98.73	
For Testing Of Unit Without Balancing, Deduct .....	-49.37	
23 05 93 00-0039 EA Water Balancing, Converter .....	423.29	
For Testing Of Unit Without Balancing, Deduct .....	-211.65	
23 05 93 00-0040 EA Water Balancing, Cocks And Valves .....	70.51	
For Testing Of Unit Without Balancing, Deduct .....	-35.26	
23 05 93 00-0041 EA Water Balance, Convectur .....	84.61	
For Testing Of Unit Without Balancing, Deduct .....	-42.31	
23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves .....	105.78	
For Testing Of Unit Without Balancing, Deduct .....	-52.89	
23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH .....	916.75	
For Testing Of Unit Without Balancing, Deduct .....	-458.38	
23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler .....	1,692.47	
For Testing Of Unit Without Balancing, Deduct .....	-846.24	
23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler .....	3,102.87	
For Testing Of Unit Without Balancing, Deduct .....	-1,551.44	
<b>23 05 93 00-0046 Non-Destructive Testing (23 05 93)</b>		
<b>23 05 93 00-0047 X-Ray Welds, Non-Destructive Testing (23 05 93 00-0046)</b>		
<b>23 05 93 00-0048 Minimum Charge For X-Ray Welds (23 05 93 00-0047)</b>		
23 05 93 00-0049 EA X-Ray Welds Minimum Set-Up Charge .....	1,023.00	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>23 05 93 00-0050 Piping, X-Ray Welds, Non-Destructive Testing (23 05 93 00-0047)</b>		
23 05 93 00-0051 EA Up To 3/4" Piping, X-Ray Welds, Non-Destructive Testing .....	115.90	
23 05 93 00-0052 EA 1" Piping, X-Ray Welds, Non-Destructive Testing .....	131.93	
23 05 93 00-0053 EA 1-1/4" - 1-1/2" Piping, X-Ray Welds, Non-Destructive Testing .....	147.98	
23 05 93 00-0054 EA 2" Piping, X-Ray Welds, Non-Destructive Testing .....	156.36	
23 05 93 00-0055 EA 3" Piping, X-Ray Welds, Non-Destructive Testing .....	164.74	
23 05 93 00-0056 EA 4" Piping, X-Ray Welds, Non-Destructive Testing .....	173.85	
23 05 93 00-0057 EA 6" Piping, X-Ray Welds, Non-Destructive Testing .....	190.61	
23 05 93 00-0058 EA 8" Piping, X-Ray Welds, Non-Destructive Testing .....	207.37	
23 05 93 00-0059 EA 10" Piping, X-Ray Welds, Non-Destructive Testing .....	216.47	
23 05 93 00-0060 EA 12" Piping, X-Ray Welds, Non-Destructive Testing .....	225.58	
<b>23 05 93 00-0061 Liquid Penetration Of Welds, Non-Destructive Testing (23 05 93 00-0046)</b>		
<b>23 05 93 00-0062 Piping, Liquid Penetration Of Welds, Non-Destructive Testing (23 05 93 00-0061)</b>		
23 05 93 00-0063 EA Up To 3/4" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	136.60	
23 05 93 00-0064 EA 1" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	144.26	
23 05 93 00-0065 EA 1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	151.91	
23 05 93 00-0066 EA 2" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	155.74	
23 05 93 00-0067 EA 3" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	161.49	
23 05 93 00-0068 EA 4" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	167.24	
23 05 93 00-0069 EA 6" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	178.72	
23 05 93 00-0070 EA 8" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	190.21	
23 05 93 00-0071 EA 10" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	201.70	
23 05 93 00-0072 EA 12" Piping, Liquid Penetration Of Welds, Non-Destructive Testing .....	213.19	
<b>23 05 93 00-0073 Hydrostatic Testing (23 05 93 00-0046)</b>		
Note: Includes flushing and restoring of system.		
<b>23 05 93 00-0074 Piping, Hydrostatic Testing (23 05 93 00-0073)</b>		
23 05 93 00-0075 EA Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing .....	1,007.75	
23 05 93 00-0076 EA >100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing .....	1,439.64	
23 05 93 00-0077 EA >250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing .....	1,724.98	
23 05 93 00-0078 EA >500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing .....	2,297.68	
23 05 93 00-0079 EA >1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing .....	3,481.32	
23 05 93 00-0080 EA Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing .....	1,339.91	
23 05 93 00-0081 EA >100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing .....	1,914.73	
23 05 93 00-0082 EA >250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing .....	2,279.44	
23 05 93 00-0083 EA >500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing .....	2,986.95	
23 05 93 00-0084 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing .....	4,518.74	
23 05 93 00-0085 EA Up To 100', >4" To 10" Piping, Hydrostatic Testing .....	1,746.24	
23 05 93 00-0086 EA >100' To 250', >4" To 10" Piping, Hydrostatic Testing .....	2,489.15	
23 05 93 00-0087 EA >250' To 500', >4" To 10" Piping, Hydrostatic Testing .....	2,625.95	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 05 Common Work Results for HVAC**

**23 05 93 Testing, Adjusting, and Balancing for HVAC**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0088 EA >500' To 1,000', >4" To 10" Piping, Hydrostatic Testing .....	3,440.21	
23 05 93 00-0089 EA >1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing .....	5,204.41	
23 05 93 00-0090 EA Up To 100', >10" To 14" Piping, Hydrostatic Testing .....	2,267.05	
23 05 93 00-0091 EA >100' To 250', >10" To 14" Piping, Hydrostatic Testing .....	3,232.04	
23 05 93 00-0092 EA >250' To 500', >10" To 14" Piping, Hydrostatic Testing .....	3,414.41	
23 05 93 00-0093 EA >500' To 1,000', >10" To 14" Piping, Hydrostatic Testing .....	4,478.37	
23 05 93 00-0094 EA >1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing .....	6,785.43	
<b>23 05 93 00-0095 Pneumatic Testing</b> <small>(23 05 93 00-0046)</small> Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test.		
<b>23 05 93 00-0096 Piping, Pneumatic Testing</b> <small>(23 05 93 00-0095)</small>		
23 05 93 00-0097 EA Up To 100', Up To 1-1/2" Piping, Pneumatic Testing .....	1,146.14	
Note: Includes soaping joints.		
23 05 93 00-0098 EA >100' To 250', Up To 1-1/2" Piping, Pneumatic Testing .....	1,635.38	
Note: Includes soaping joints.		
23 05 93 00-0099 EA >250' To 500', Up To 1-1/2" Piping, Pneumatic Testing .....	1,766.29	
Note: Includes soaping joints.		
23 05 93 00-0100 EA >500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing .....	2,262.50	
Note: Includes soaping joints.		
23 05 93 00-0101 EA >1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing .....	3,539.16	
Note: Includes soaping joints.		
23 05 93 00-0102 EA Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing .....	1,495.54	
Note: Includes soaping joints.		
23 05 93 00-0103 EA >100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing .....	2,123.56	
Note: Includes soaping joints.		
23 05 93 00-0104 EA >250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing .....	2,295.99	
Note: Includes soaping joints.		
23 05 93 00-0105 EA >500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing .....	2,941.83	
Note: Includes soaping joints.		
23 05 93 00-0106 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing .....	4,600.19	
Note: Includes soaping joints.		
23 05 93 00-0107 EA Up To 100', >4" To 10" Piping, Pneumatic Testing .....	1,800.71	
Note: Includes soaping joints.		
23 05 93 00-0108 EA >100' To 250', >4" To 10" Piping, Pneumatic Testing .....	2,541.16	
Note: Includes soaping joints.		
23 05 93 00-0109 EA >250' To 500', >4" To 10" Piping, Pneumatic Testing .....	2,875.14	
Note: Includes soaping joints.		
23 05 93 00-0110 EA >500' To 1,000', >4" To 10" Piping, Pneumatic Testing .....	3,673.95	
Note: Includes soaping joints.		
23 05 93 00-0111 EA >1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing .....	5,753.36	
Note: Includes soaping joints.		
23 05 93 00-0112 EA Up To 100', >10" To 14" Piping, Pneumatic Testing .....	2,344.69	
Note: Includes soaping joints.		
23 05 93 00-0113 EA >100' To 250', >10" To 14" Piping, Pneumatic Testing .....	3,303.75	
Note: Includes soaping joints.		
23 05 93 00-0114 EA >250' To 500', >10" To 14" Piping, Pneumatic Testing .....	3,738.86	
Note: Includes soaping joints.		
23 05 93 00-0115 EA >500' To 1,000', >10" To 14" Piping, Pneumatic Testing .....	4,777.13	
Note: Includes soaping joints.		
23 05 93 00-0116 EA >1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing .....	7,491.53	
Note: Includes soaping joints.		
<b>23 05 93 00-0117 EPA Testing Of Sludge</b> <small>(23 05 93)</small>		
23 05 93 00-0118 EA Flashpoint And Lead Test For Lead .....	1,064.37	
23 05 93 00-0119 EA Air Test/Combustion Gas Level .....	110.40	
23 05 93 00-0120 EA Toxicity Test For Heavy Metals .....	1,632.68	
23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water .....	1,239.30	

**23 07 HVAC Insulation** (23)

**23 07 13 Duct Insulation** (23 07)

Note: Based on SF surface area of duct to receive insulation.

<b>23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation</b> <small>(23 07 13)</small>		
Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight. See CSI section 23 33 53 00-0000 for internal duct insulation.		
<b>23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation</b> <small>(23 07 13 00-0001)</small>		
23 07 13 00-0003 SF 1" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....	4.74	2.92
For Plain Blanket, With No Facing, Deduct	-0.34	
For Work In Restricted Working Space, Add	1.16	
23 07 13 00-0004 SF 1-1/2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....	5.54	2.92
For Plain Blanket, With No Facing, Deduct	-0.40	
For Work In Restricted Working Space, Add	1.37	
23 07 13 00-0005 SF 2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....	6.28	4.36
For Plain Blanket, With No Facing, Deduct	-0.43	
For Work In Restricted Working Space, Add	1.56	
23 07 13 00-0006 SF 3" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation .....	7.42	5.10
For Plain Blanket, With No Facing, Deduct	-0.54	
For Work In Restricted Working Space, Add	1.82	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 13 00-0007 SF 4" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation ..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8.67 -0.84 1.97	5.53
<b>23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)</b>		
23 07 13 00-0009 SF 1" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation ..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5.85 -0.40 1.46	4.36
23 07 13 00-0010 SF 1-1/2" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation ..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6.81 -0.48 1.68	5.10
23 07 13 00-0011 SF 2" Thick, Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation ..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8.04 -0.57 1.99	5.82
<b>23 07 13 00-0012 Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)</b>		
23 07 13 00-0013 SF 1" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation ..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7.53 -0.67 1.76	5.82
23 07 13 00-0014 SF 1-1/2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation ..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	9.61 -1.17 2.00	6.56
23 07 13 00-0015 SF 2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation ..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	11.21 -1.38 2.33	7.28
<b>23 07 13 00-0016 3 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)</b> Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.		
23 07 13 00-0017 SF 1" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation ..... <i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i> <i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i> <i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.58 31.49 23.28 19.20 3.88	7.53
23 07 13 00-0018 SF 1-1/2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation ..... <i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i> <i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i> <i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.25 38.82 29.05 23.87 4.72	9.16
23 07 13 00-0019 SF 2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation ..... <i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i> <i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i> <i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.37 47.23 35.61 29.19 5.69	11.06
<b>23 07 13 00-0020 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)</b> Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.		
23 07 13 00-0021 SF 1" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.19 4.27	8.29
23 07 13 00-0022 SF 1-1/2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation ..... <i>For Work In Restricted Working Space, Add</i>	19.45 5.19	10.08
23 07 13 00-0023 SF 2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation ..... <i>For Work In Restricted Working Space, Add</i>	24.66 6.26	12.17
<b>23 07 13 00-0024 Sheet Flexible Elastomeric Insulation (23 07 13)</b>		
23 07 13 00-0025 SF 3/8" Thick, Sheet Flexible Elastomeric Insulation .....	10.03	3.93
23 07 13 00-0026 SF 1/2" Thick, Sheet Flexible Elastomeric Insulation .....	10.70	4.15
23 07 13 00-0027 SF 3/4" Thick, Sheet Flexible Elastomeric Insulation .....	13.67	4.36
23 07 13 00-0028 SF 1" Thick, Sheet Flexible Elastomeric Insulation .....	15.60	4.58
23 07 13 00-0029 SF 1-1/2" Thick, Sheet Flexible Elastomeric Insulation .....	21.14	5.03
23 07 13 00-0030 SF 2" Thick, Sheet Flexible Elastomeric Insulation .....	24.83	5.46
<b>23 07 13 00-0031 Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)</b> Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0032 SF 1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	14.27	4.15
23 07 13 00-0033 SF 3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	15.63	4.36
23 07 13 00-0034 SF 1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	17.31	4.58
23 07 13 00-0035 SF 1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	26.27	5.03
23 07 13 00-0036 SF 2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	30.96	5.46
<b>23 07 13 00-0037 Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)</b> Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0038 SF 1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	16.81	4.15
23 07 13 00-0039 SF 3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	18.17	4.36

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 07 HVAC Insulation****23 07 13 Duct Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 07 13 00-0040	SF		1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	20.30	4.58
23 07 13 00-0041	SF		1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	29.23	5.03

**23 07 16 HVAC Equipment Insulation (23 07)**

23 07 16 00-0001			<b>Calcium Silicate Block Insulation (23 07 16)</b>		
23 07 16 00-0002	SF		1" Thick, Calcium Silicate Block Insulation .....	21.54	9.05
			<i>For Work In Restricted Working Space, Add</i>	5.43	
23 07 16 00-0003	SF		1-1/2" Thick, Calcium Silicate Block Insulation .....	25.53	10.18
			<i>For Work In Restricted Working Space, Add</i>	6.11	
23 07 16 00-0004	SF		2" Thick, Calcium Silicate Block Insulation .....	30.46	11.74
			<i>For Work In Restricted Working Space, Add</i>	7.07	
23 07 16 00-0005	SF		2-1/2" Thick, Calcium Silicate Block Insulation .....	36.19	13.79
			<i>For Work In Restricted Working Space, Add</i>	8.27	
23 07 16 00-0006	SF		3" Thick, Calcium Silicate Block Insulation .....	44.27	16.97
			<i>For Work In Restricted Working Space, Add</i>	10.18	

**23 07 19 HVAC Piping Insulation (23 07)**

See CSI section 22 07 19 00-0000 for pipe insulation.

23 07 19 00-0001			<b>Calcium Silicate Pipe Insulation (23 07 19)</b>		
			Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-0594 for protective jacketing.		
23 07 19 00-0002			<b>1" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>		
23 07 19 00-0003	LF		1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	17.41	4.79
			<i>For Work In Restricted Working Space, Add</i>	3.59	
23 07 19 00-0004	LF		3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	17.41	4.79
			<i>For Work In Restricted Working Space, Add</i>	3.59	
23 07 19 00-0005	LF		1" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	17.35	4.86
			<i>For Work In Restricted Working Space, Add</i>	3.64	
23 07 19 00-0006	LF		1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	17.61	4.93
			<i>For Work In Restricted Working Space, Add</i>	3.69	
23 07 19 00-0007	LF		1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	17.83	5.00
			<i>For Work In Restricted Working Space, Add</i>	3.74	
23 07 19 00-0008	LF		2" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	18.99	5.13
			<i>For Work In Restricted Working Space, Add</i>	3.85	
23 07 19 00-0009	LF		2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	19.85	5.34
			<i>For Work In Restricted Working Space, Add</i>	4.00	
23 07 19 00-0010	LF		3" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	20.69	5.48
			<i>For Work In Restricted Working Space, Add</i>	4.11	
23 07 19 00-0011	LF		4" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	23.48	5.89
			<i>For Work In Restricted Working Space, Add</i>	4.42	
23 07 19 00-0012	LF		6" Diameter Pipe, 1" Thick Calcium Silicate Insulation .....	26.19	6.65
			<i>For Work In Restricted Working Space, Add</i>	4.99	
23 07 19 00-0013			<b>1-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>		
23 07 19 00-0014	LF		1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	18.21	4.99
			<i>For Work In Restricted Working Space, Add</i>	3.74	
23 07 19 00-0015	LF		3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	18.31	4.99
			<i>For Work In Restricted Working Space, Add</i>	3.74	
23 07 19 00-0016	LF		1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	19.57	5.28
			<i>For Work In Restricted Working Space, Add</i>	3.96	
23 07 19 00-0017	LF		1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	20.31	5.38
			<i>For Work In Restricted Working Space, Add</i>	4.04	
23 07 19 00-0018	LF		1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	21.08	5.48
			<i>For Work In Restricted Working Space, Add</i>	4.11	
23 07 19 00-0019	LF		2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	22.58	5.78
			<i>For Work In Restricted Working Space, Add</i>	4.34	
23 07 19 00-0020	LF		2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	23.58	5.88
			<i>For Work In Restricted Working Space, Add</i>	4.41	
23 07 19 00-0021	LF		3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	24.47	6.08
			<i>For Work In Restricted Working Space, Add</i>	4.56	
23 07 19 00-0022	LF		4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	27.18	6.58
			<i>For Work In Restricted Working Space, Add</i>	4.93	
23 07 19 00-0023	LF		6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	31.54	7.67
			<i>For Work In Restricted Working Space, Add</i>	5.76	
23 07 19 00-0024	LF		8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	36.61	8.10
			<i>For Work In Restricted Working Space, Add</i>	6.08	
23 07 19 00-0025	LF		10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	45.90	9.69
			<i>For Work In Restricted Working Space, Add</i>	7.27	
23 07 19 00-0026	LF		12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	53.93	11.29
			<i>For Work In Restricted Working Space, Add</i>	8.47	
23 07 19 00-0027	LF		14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	59.98	12.38
			<i>For Work In Restricted Working Space, Add</i>	9.28	
23 07 19 00-0028	LF		16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	71.90	15.76
			<i>For Work In Restricted Working Space, Add</i>	11.81	
23 07 19 00-0029	LF		18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation .....	77.31	16.54
			<i>For Work In Restricted Working Space, Add</i>	12.41	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 07 19 00-0030 2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>				
	23 07 19 00-0031 LF 1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	22.77	5.48
	<i>For Work In Restricted Working Space, Add</i>		4.11	
	23 07 19 00-0032 LF 3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	23.26	5.48
	<i>For Work In Restricted Working Space, Add</i>		4.11	
	23 07 19 00-0033 LF 1" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	23.95	5.55
	<i>For Work In Restricted Working Space, Add</i>		4.16	
	23 07 19 00-0034 LF 1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	24.85	5.62
	<i>For Work In Restricted Working Space, Add</i>		4.21	
	23 07 19 00-0035 LF 1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	25.50	5.68
	<i>For Work In Restricted Working Space, Add</i>		4.27	
	23 07 19 00-0036 LF 2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	26.57	5.89
	<i>For Work In Restricted Working Space, Add</i>		4.42	
	23 07 19 00-0037 LF 2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	29.49	6.10
	<i>For Work In Restricted Working Space, Add</i>		4.58	
	23 07 19 00-0038 LF 3" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	30.07	6.31
	<i>For Work In Restricted Working Space, Add</i>		4.73	
	23 07 19 00-0039 LF 4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	33.17	6.66
	<i>For Work In Restricted Working Space, Add</i>		4.99	
	23 07 19 00-0040 LF 6" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	40.57	7.98
	<i>For Work In Restricted Working Space, Add</i>		5.99	
	23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	45.62	8.43
	<i>For Work In Restricted Working Space, Add</i>		6.32	
	23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	56.06	10.09
	<i>For Work In Restricted Working Space, Add</i>		7.57	
	23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	64.46	12.08
	<i>For Work In Restricted Working Space, Add</i>		9.06	
	23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	79.82	16.85
	<i>For Work In Restricted Working Space, Add</i>		12.64	
	23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	83.67	16.85
	<i>For Work In Restricted Working Space, Add</i>		12.64	
	23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	89.54	17.70
	<i>For Work In Restricted Working Space, Add</i>		13.27	
	23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	106.36	20.23
	<i>For Work In Restricted Working Space, Add</i>		15.17	
	23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation	.....	124.23	24.44
	<i>For Work In Restricted Working Space, Add</i>		18.33	
<b>23 07 19 00-0049 2-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>				
	23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	27.22	6.31
	<i>For Work In Restricted Working Space, Add</i>		4.74	
	23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	27.73	6.31
	<i>For Work In Restricted Working Space, Add</i>		4.74	
	23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	28.21	6.42
	<i>For Work In Restricted Working Space, Add</i>		4.82	
	23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	28.47	6.47
	<i>For Work In Restricted Working Space, Add</i>		4.85	
	23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	29.15	6.52
	<i>For Work In Restricted Working Space, Add</i>		4.89	
	23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	30.38	6.79
	<i>For Work In Restricted Working Space, Add</i>		5.09	
	23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	33.91	7.02
	<i>For Work In Restricted Working Space, Add</i>		5.27	
	23 07 19 00-0057 LF 3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	34.52	7.27
	<i>For Work In Restricted Working Space, Add</i>		5.45	
	23 07 19 00-0058 LF 4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	39.58	7.66
	<i>For Work In Restricted Working Space, Add</i>		5.75	
	23 07 19 00-0059 LF 6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	48.94	8.71
	<i>For Work In Restricted Working Space, Add</i>		6.53	
	23 07 19 00-0060 LF 8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	55.76	9.70
	<i>For Work In Restricted Working Space, Add</i>		7.28	
	23 07 19 00-0061 LF 10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	66.43	11.19
	<i>For Work In Restricted Working Space, Add</i>		8.39	
	23 07 19 00-0062 LF 12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	77.66	13.92
	<i>For Work In Restricted Working Space, Add</i>		10.43	
	23 07 19 00-0063 LF 14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	85.83	15.19
	<i>For Work In Restricted Working Space, Add</i>		11.39	
	23 07 19 00-0064 LF 16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	104.60	19.42
	<i>For Work In Restricted Working Space, Add</i>		14.56	
	23 07 19 00-0065 LF 18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	110.42	20.38
	<i>For Work In Restricted Working Space, Add</i>		15.29	
	23 07 19 00-0066 LF 20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	127.95	23.30
	<i>For Work In Restricted Working Space, Add</i>		17.48	
	23 07 19 00-0067 LF 24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation	.....	150.65	28.15
	<i>For Work In Restricted Working Space, Add</i>		21.11	
<b>23 07 19 00-0068 3" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>				
	23 07 19 00-0069 LF 1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation	.....	33.94	6.99
	<i>For Work In Restricted Working Space, Add</i>		5.24	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0070 LF 3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	34.05	6.99
<i>For Work In Restricted Working Space, Add</i>	5.24	
23 07 19 00-0071 LF 1" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	34.36	7.07
<i>For Work In Restricted Working Space, Add</i>	5.30	
23 07 19 00-0072 LF 1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	34.70	7.11
<i>For Work In Restricted Working Space, Add</i>	5.33	
23 07 19 00-0073 LF 1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	35.03	7.19
<i>For Work In Restricted Working Space, Add</i>	5.39	
23 07 19 00-0074 LF 2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	36.24	7.45
<i>For Work In Restricted Working Space, Add</i>	5.59	
23 07 19 00-0075 LF 2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	39.98	7.71
<i>For Work In Restricted Working Space, Add</i>	5.78	
23 07 19 00-0076 LF 3" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	40.83	7.98
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 07 19 00-0077 LF 4" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	47.74	8.44
<i>For Work In Restricted Working Space, Add</i>	6.32	
23 07 19 00-0078 LF 6" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	56.46	9.57
<i>For Work In Restricted Working Space, Add</i>	7.18	
23 07 19 00-0079 LF 8" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	65.41	10.67
<i>For Work In Restricted Working Space, Add</i>	8.00	
23 07 19 00-0080 LF 10" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	77.54	12.32
<i>For Work In Restricted Working Space, Add</i>	9.23	
23 07 19 00-0081 LF 12" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	90.00	15.30
<i>For Work In Restricted Working Space, Add</i>	11.48	
23 07 19 00-0082 LF 14" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	99.79	16.71
<i>For Work In Restricted Working Space, Add</i>	12.53	
23 07 19 00-0083 LF 16" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	117.48	21.36
<i>For Work In Restricted Working Space, Add</i>	16.01	
23 07 19 00-0084 LF 18" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	126.44	22.42
<i>For Work In Restricted Working Space, Add</i>	16.82	
23 07 19 00-0085 LF 20" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	147.81	25.64
<i>For Work In Restricted Working Space, Add</i>	19.23	
23 07 19 00-0086 LF 24" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	175.09	30.97
<i>For Work In Restricted Working Space, Add</i>	23.23	
<b>23 07 19 00-0087 3-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>		
23 07 19 00-0088 LF 1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	42.75	7.66
<i>For Work In Restricted Working Space, Add</i>	5.75	
23 07 19 00-0089 LF 3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	44.24	7.66
<i>For Work In Restricted Working Space, Add</i>	5.75	
23 07 19 00-0090 LF 1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	44.36	7.71
<i>For Work In Restricted Working Space, Add</i>	5.78	
23 07 19 00-0091 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	44.50	7.76
<i>For Work In Restricted Working Space, Add</i>	5.82	
23 07 19 00-0092 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	45.84	7.86
<i>For Work In Restricted Working Space, Add</i>	5.90	
23 07 19 00-0093 LF 2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	48.56	8.12
<i>For Work In Restricted Working Space, Add</i>	6.09	
23 07 19 00-0094 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	52.56	8.41
<i>For Work In Restricted Working Space, Add</i>	6.31	
23 07 19 00-0095 LF 3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	54.43	8.71
<i>For Work In Restricted Working Space, Add</i>	6.53	
23 07 19 00-0096 LF 4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	61.71	9.20
<i>For Work In Restricted Working Space, Add</i>	6.90	
23 07 19 00-0097 LF 6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	68.93	10.45
<i>For Work In Restricted Working Space, Add</i>	7.84	
23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	83.51	11.64
<i>For Work In Restricted Working Space, Add</i>	8.73	
23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	101.21	13.43
<i>For Work In Restricted Working Space, Add</i>	10.07	
23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	122.70	16.69
<i>For Work In Restricted Working Space, Add</i>	12.52	
23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	129.51	18.23
<i>For Work In Restricted Working Space, Add</i>	13.67	
23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	151.83	23.30
<i>For Work In Restricted Working Space, Add</i>	17.47	
23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	173.50	24.46
<i>For Work In Restricted Working Space, Add</i>	18.35	
23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	187.85	27.97
<i>For Work In Restricted Working Space, Add</i>	20.98	
<b>23 07 19 00-0105 4" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>		
23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	52.97	8.51
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	53.02	8.51
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	53.39	8.66
<i>For Work In Restricted Working Space, Add</i>	6.49	
23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	54.80	8.76
<i>For Work In Restricted Working Space, Add</i>	6.57	
23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	57.95	9.03
<i>For Work In Restricted Working Space, Add</i>	6.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	59.18 6.98	9.31
23 07 19 00-0112 LF 2-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	64.35 7.09	9.45
23 07 19 00-0113 LF 3" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	66.24 7.35	9.80
23 07 19 00-0114 LF 4" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	74.89 7.76	10.35
23 07 19 00-0115 LF 6" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	86.54 8.81	11.74
23 07 19 00-0116 LF 8" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	102.77 9.82	13.09
23 07 19 00-0117 LF 10" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	118.35 11.34	15.12
23 07 19 00-0118 LF 12" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	135.39 14.09	18.78
23 07 19 00-0119 LF 14" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	144.21 15.39	20.52
23 07 19 00-0120 LF 16" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	171.51 19.67	26.23
23 07 19 00-0121 LF 18" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	182.25 20.62	27.49
23 07 19 00-0122 LF 20" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	202.10 23.60	31.46
<b>23 07 19 00-0123 Weather-Protective Coating For Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>		
23 07 19 00-0124 SF 1/4" Thick (Two 1/8" Coats), Weatherproof Coating Over Glass Cloth Mesh (Insulkote ET) ..... <i>For Work In Restricted Working Space, Add</i>	6.86 1.35	

**23 08 Commissioning of HVAC** <sup>(23)</sup>  
See CSI section 23 05 93 00-0000 for testing and balancing.

**23 09 Instrumentation and Control for HVAC** <sup>(23)</sup>

**23 09 23 Direct-Digital Control System for HVAC** <sup>(23 09)</sup>

**23 09 23 11 Control Valves** <sup>(23 09 23)</sup>

**23 09 23 11-0001 Valves With Actuator** <sup>(23 09 23 11)</sup>

23 09 23 11-0002 EA 1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G215+NV24-MFT US) .....	824.85	19.77
23 09 23 11-0003 EA 3/4" 2-Way Bronze Globe Valve With Actuator (Belimo G220+NV24-MFT US) .....	854.75	26.64
23 09 23 11-0004 EA 1" 2-Way Bronze Globe Valve With Actuator (Belimo B225+NV24-MFT US) .....	936.35	32.25
23 09 23 11-0005 EA 1-1/4" 2-Way Bronze Globe Valve With Actuator (Belimo B232+NV24-MFT US) .....	1,023.34	40.84
23 09 23 11-0006 EA 1-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G240+NV24-MFT US) .....	1,165.84	47.13
23 09 23 11-0007 EA 2" 2-Way Bronze Globe Valve With Actuator (Belimo G250+NV24-MFT US) .....	1,318.29	55.71
23 09 23 11-0008 EA 2-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G665+GMX24-MFTX1) .....	2,467.50	111.40
23 09 23 11-0009 EA 3" 2-Way Bronze Globe Valve With Actuator (Belimo G680+GMX24-MFTX1) .....	2,677.61	130.36
23 09 23 11-0010 EA 4" 2-Way Bronze Globe Valve With Actuator (Belimo G6100C+GMX24-MFTX1) .....	3,618.49	191.47
23 09 23 11-0011 EA 5" 2-Way Bronze Globe Valve With Actuator (Belimo G6125C+GMX24-MFTX1) .....	5,321.19	276.71
23 09 23 11-0012 EA 6" 2-Way Bronze Globe Valve With Actuator (Belimo G6150C+GMX24-MFTX1) .....	5,893.98	306.36
23 09 23 11-0013 EA 1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G315+NV24-MFT US) .....	889.73	29.65
23 09 23 11-0014 EA 3/4" 3-Way Bronze Globe Valve With Actuator (Belimo G320+NV24-MFT US) .....	919.71	39.96
23 09 23 11-0015 EA 1" 3-Way Bronze Globe Valve With Actuator (Belimo G325+NV24-MFT US) .....	997.79	48.38
23 09 23 11-0016 EA 1-1/4" 3-Way Bronze Globe Valve With Actuator (Belimo G332+NV24-MFT US) .....	1,108.24	61.28
23 09 23 11-0017 EA 1-1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G340+NV24-MFT US) .....	1,421.26	70.70
23 09 23 11-0018 EA 2" 3-Way Bronze Globe Valve With Actuator (Belimo G350+NV24-MFT US) .....	1,578.05	83.55
23 09 23 11-0019 EA 2-1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G765+GMX24-MFTX1) .....	2,792.69	167.11
23 09 23 11-0020 EA 3" 3-Way Bronze Globe Valve With Actuator (Belimo G780+GMX24-MFTX1) .....	3,072.98	195.54
23 09 23 11-0021 EA 4" 3-Way Bronze Globe Valve With Actuator (Belimo G7100+2"GMX24-MFTX1) .....	4,472.59	287.21
23 09 23 11-0022 EA 5" 3-Way Bronze Globe Valve With Actuator (Belimo G7125+2"GMX24-MFTX1) .....	6,486.93	415.07
23 09 23 11-0023 EA 6" 3-Way Bronze Globe Valve With Actuator (Belimo G7150+2"GMX24-MFTX1) .....	7,210.85	459.53
23 09 23 11-0024 EA 1/2" Two Way Brass Zone Valve With Actuator (Belimo ZONE215N-35+ZONE24NC) .....	146.25	19.77
23 09 23 11-0025 EA 3/4" Two Way Brass Zone Valve With Actuator (Belimo ZONE220N-50+ZONE24NC) .....	174.31	26.64
23 09 23 11-0026 EA 1" Two Way Brass Zone Valve With Actuator (Belimo ZONE225N-80+ZONE24NC) .....	218.89	32.25
23 09 23 11-0027 EA 1/2" Two Way Brass Zone Valve With Actuator (Belimo ZONE315N-35+ZONE24NC) .....	181.84	29.65
23 09 23 11-0028 EA 3/4" Two Way Brass Zone Valve With Actuator (Belimo ZONE320N-50+ZONE24NC) .....	215.38	39.96
23 09 23 11-0029 EA 1" Two Way Brass Zone Valve With Actuator (Belimo ZONE325N-80+ZONE24NC) .....	268.51	48.38
23 09 23 11-0030 EA 1/2" 2-Way Brass Ball Valve With Actuator (Belimo B215B+LRB24-3) .....	236.33	19.77
23 09 23 11-0031 EA 3/4" 2-Way Brass Ball Valve With Actuator (Belimo B220B+LRB24-3) .....	281.90	26.64
23 09 23 11-0032 EA 1" 2-Way Brass Ball Valve With Actuator (Belimo B225+LRB24-3) .....	321.70	32.25
23 09 23 11-0033 EA 1-1/4" 2-Way Brass Ball Valve With Actuator (Belimo B232+ARB24-3) .....	417.96	40.84
23 09 23 11-0034 EA 1-1/2" 2-Way Brass Ball Valve With Actuator (Belimo B240+ARB24-3) .....	434.95	47.13
23 09 23 11-0035 EA 2" 2-Way Brass Ball Valve With Actuator (Belimo B250+ARB24-3) .....	551.78	55.71
23 09 23 11-0036 EA 2-1/2" 2-Way Brass Ball Valve With Actuator (Belimo B265+ARB24-3) .....	1,180.91	111.40
23 09 23 11-0037 EA 3" 2-Way Brass Ball Valve With Actuator (Belimo B280+ARB24-3) .....	1,386.25	130.36
23 09 23 11-0038 EA 1/2" 3-Way Brass Ball Valve With Actuator (Belimo B315B+LRB24-3) .....	289.43	29.65
23 09 23 11-0039 EA 3/4" 3-Way Brass Ball Valve With Actuator (Belimo B320B+LRB24-3) .....	337.74	39.96
23 09 23 11-0040 EA 1" 3-Way Brass Ball Valve With Actuator (Belimo B325+LRB24-3) .....	434.19	48.38
23 09 23 11-0041 EA 1-1/4" 3-Way Brass Ball Valve With Actuator (Belimo B331+ARB24-3) .....	612.11	61.28
23 09 23 11-0042 EA 1-1/2" 3-Way Brass Ball Valve With Actuator (Belimo B341+ARB24-3) .....	648.56	70.70

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 09 23 11-0043	EA	2" 3-Way Brass Ball Valve With Actuator (Belimo B352+ARB24-3) .....	854.10	83.55
23 09 23 11-0044	EA	2" 2-Way Butterfly Valve With Actuator (Belimo F650HD+AMB24-3X1) .....	715.53	102.12
23 09 23 11-0045	EA	2-1/2" 2-Way Butterfly Valve With Actuator (Belimo F665HD+AMB24-3X1) .....	753.57	111.40
23 09 23 11-0046	EA	3" 2-Way Butterfly Valve With Actuator (Belimo F680HD+GMB24-3X1) .....	982.10	130.36
23 09 23 11-0047	EA	4" 2-Way Butterfly Valve With Actuator (Belimo F6100HD+2"GMB24-3X1) .....	1,510.06	218.83
23 09 23 11-0048	EA	5" 2-Way Butterfly Valve With Actuator (Belimo F6125HD+SY2-24) .....	2,952.94	276.71
23 09 23 11-0049	EA	6" 2-Way Butterfly Valve With Actuator (Belimo F6150HD+SY3-24) .....	3,123.10	306.36
23 09 23 11-0050	EA	8" 2-Way Butterfly Valve With Actuator (Belimo F6200HD+SY4-24) .....	4,212.90	350.12
23 09 23 11-0051	EA	10" 2-Way Butterfly Valve With Actuator (Belimo F6250HD+SY4-24) .....	5,168.51	428.90
23 09 23 11-0052	EA	12" 2-Way Butterfly Valve With Actuator (Belimo F6300HS+SY4-24) .....	6,382.16	519.88
23 09 23 11-0053	EA	14" 2-Way Butterfly Valve With Actuator (Belimo F6350HD+SY5-24) .....	7,110.56	612.71
23 09 23 11-0054	EA	16" 2-Way Butterfly Valve With Actuator (Belimo F6400HD+SY6-110) .....	9,331.51	673.99
23 09 23 11-0055	EA	18" 2-Way Butterfly Valve With Actuator (Belimo F6450HD+SY8-110) .....	11,273.55	748.74
23 09 23 11-0056	EA	2" 3-Way Butterfly Valve With Actuator (Belimo F750HD+AMB24-3X1) .....	1,303.41	153.18
23 09 23 11-0057	EA	2-1/2" 3-Way Butterfly Valve With Actuator (Belimo F765HD+GMB24-3X1) .....	1,528.35	167.11
23 09 23 11-0058	EA	3" 3-Way Butterfly Valve With Actuator (Belimo F780HD+2"GMB24-3X1) .....	1,881.14	195.54
23 09 23 11-0059	EA	4" 3-Way Butterfly Valve With Actuator (Belimo F7100HD+2"GMB24-3X1) .....	2,453.95	328.24
23 09 23 11-0060	EA	5" 3-Way Butterfly Valve With Actuator (Belimo F7125HD+SY3-24) .....	4,890.92	415.07
23 09 23 11-0061	EA	6" 3-Way Butterfly Valve With Actuator (Belimo F7150HD+SY3-24) .....	5,079.44	459.53
23 09 23 11-0062	EA	8" 3-Way Butterfly Valve With Actuator (Belimo F7200HD+SY4-24) .....	6,374.89	525.23
23 09 23 11-0063	EA	10" 3-Way Butterfly Valve With Actuator (Belimo F7250HD+SY4-24) .....	8,411.18	643.35
23 09 23 11-0064	EA	12" 3-Way Butterfly Valve With Actuator (Belimo F7300HD+SY5-24) .....	10,222.62	779.82
23 09 23 11-0065	EA	14" 3-Way Butterfly Valve With Actuator (Belimo F7350HD+SY6-110) .....	15,796.95	919.07
23 09 23 11-0066	EA	16" 3-Way Butterfly Valve With Actuator (Belimo F7400HD+SY7-110) .....	17,607.18	1,010.97
23 09 23 11-0067	EA	18" 3-Way Butterfly Valve With Actuator (Belimo F7450HD+SY8-110) .....	26,872.86	1,123.11

**23 09 23 11-0068 Valve Actuators (23 09 23 11)**

23 09 23 11-0069	EA	24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-T) .....	555.94	126.55
23 09 23 11-0070	EA	24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 95 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3) .....	563.00	126.55
23 09 23 11-0071	EA	24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR-T) .....	678.75	126.55
23 09 23 11-0072	EA	24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-S) .....	621.67	126.55
23 09 23 11-0073	EA	24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR) .....	631.98	126.55
23 09 23 11-0074	EA	24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT) .....	699.67	126.55
23 09 23 11-0075	EA	24 Volt AC/DC Power Supply, On/Off Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-1) .....	837.07	126.55
23 09 23 11-0076	EA	24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT95) .....	853.22	126.55
23 09 23 11-0077	EA	24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-MFT) .....	892.17	126.55
23 09 23 11-0078	EA	120 Volt AC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-3) .....	662.25	126.55
23 09 23 11-0079	EA	120 Volt AC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-SR) .....	743.96	126.55
23 09 23 11-0080	EA	24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-T) .....	666.13	126.55
23 09 23 11-0081	EA	24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3) .....	676.46	126.55
23 09 23 11-0082	EA	24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARB24-3-5-14) .....	680.33	126.55
23 09 23 11-0083	EA	24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-S) .....	750.58	126.55
23 09 23 11-0084	EA	24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T) .....	780.88	126.55
23 09 23 11-0085	EA	24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR) .....	796.98	126.55
23 09 23 11-0086	EA	24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, Variable Run Time (90 To 350 Seconds), 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT) .....	793.78	126.55
23 09 23 11-0087	EA	24 Volt AC/DC Power Supply, Phasecut Control Input, 95 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-PC) .....	804.08	126.55
23 09 23 11-0088	EA	24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT95) .....	803.43	126.55
23 09 23 11-0089	EA	24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, NEMA 4X, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T N4) .....	870.28	126.55
23 09 23 11-0090	EA	24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, NEMA 4X, Variable Run Time (75 To 350 Seconds), 160 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT-T N4) .....	1,039.36	126.55
23 09 23 11-0091	EA	100-240 Volt AC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-3) .....	715.77	126.55
23 09 23 11-0092	EA	100-240 Volt AC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-SR) .....	839.55	126.55
23 09 23 11-0093	EA	24 Volt AC/DC Power Supply, On/Off Control Input, 15 Seconds Run Time, 801 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY2-24) .....	1,810.26	126.55
23 09 23 11-0094	EA	24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 1,335 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY3-24) .....	2,021.67	126.55
23 09 23 11-0095	EA	24 Volt AC/DC Power Supply, On/Off Control Input, 16 Seconds Run Time, 3,560 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY4-24) .....	2,412.92	126.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 11-0096 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 4,450 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY5-24).....	2,724.25	126.55
23 09 23 11-0097 EA 120 Volt AC Power Supply, On/Off Control Input, 28 Seconds Run Time, 5,785 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY6-110).....	3,212.19	126.55
23 09 23 11-0098 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 8,900 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY7-110).....	3,771.69	126.55
23 09 23 11-0099 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 13,350 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY8-110).....	5,058.25	126.55
23 09 23 11-0100 EA 120 Volt AC Power Supply, On/Off Control Input, 58 Seconds Run Time, 17,800 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY9-110).....	6,159.81	126.55

**23 09 23 12 Control Dampers (23 09 23)**

**23 09 23 12-0001 Rectangular Galvanized Volume Control Dampers (23 09 23 12)**

Note: Excludes actuators.

23 09 23 12-0002 EA 8" x 8" Low Leakage Volume Control Damper (Johnson Controls VOPSN-008X008).....	229.36	47.62
23 09 23 12-0003 EA 10" x 10" Low Leakage Volume Control Damper (Johnson Controls VOPSN-010X010).....	258.16	52.22
23 09 23 12-0004 EA 12" x 12" Low Leakage Volume Control Damper (Johnson Controls VOPSN-012X012).....	288.47	57.60
23 09 23 12-0005 EA 14" x 14" Low Leakage Volume Control Damper (Johnson Controls VOPSN-014X014).....	333.77	67.58
23 09 23 12-0006 EA 16" x 16" Low Leakage Volume Control Damper (Johnson Controls VOPSN-016X016).....	377.54	76.80
23 09 23 12-0007 EA 18" x 18" Low Leakage Volume Control Damper (Johnson Controls VOPSN-018X018).....	384.06	86.40
23 09 23 12-0008 EA 20" x 20" Low Leakage Volume Control Damper (Johnson Controls VOPSN-020X020).....	468.79	96.00
23 09 23 12-0009 EA 24" x 24" Low Leakage Volume Control Damper (Johnson Controls VOPSN-024X024).....	560.00	115.20
23 09 23 12-0010 EA 32" x 32" Low Leakage Volume Control Damper (Johnson Controls VOPSN-032X032).....	715.67	134.38
23 09 23 12-0011 EA 48" x 48" Low Leakage Volume Control Damper (Johnson Controls VOPSN-048X048).....	1,050.91	153.58
23 09 23 12-0012 EA 60" x 60" Low Leakage Volume Control Damper (Johnson Controls VOPSN-060X060).....	1,899.60	172.78
23 09 23 12-0013 EA 72" x 72" Low Leakage Volume Control Damper (Johnson Controls VOPSN-072X072).....	2,406.02	191.98

**23 09 23 12-0014 Round Galvanized Control Dampers (23 09 23 12)**

Note: Excludes actuators.

23 09 23 12-0015 EA 6" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG06).....	224.79	53.76
23 09 23 12-0016 EA 8" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG08).....	232.57	57.60
23 09 23 12-0017 EA 10" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG10).....	241.97	57.60
23 09 23 12-0018 EA 12" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG12).....	268.93	65.28
23 09 23 12-0019 EA 14" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG14).....	303.79	65.28
23 09 23 12-0020 EA 16" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG16).....	331.06	76.80
23 09 23 12-0021 EA 18" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG18).....	444.25	80.83
23 09 23 12-0022 EA 20" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG20).....	464.24	83.78
23 09 23 12-0023 EA 22" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG22).....	493.09	90.33
23 09 23 12-0024 EA 24" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG24).....	522.48	96.86

**23 09 23 12-0025 Remote Damper Control (23 09 23 12)**

23 09 23 12-0026 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-275B).....	337.86	
<i>For Each 10' Flexible Casing And Wire, Add</i>	41.07	
23 09 23 12-0027 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-301B).....	346.26	
<i>For Each 10' Flexible Casing And Wire, Add</i>	41.07	

**23 09 23 13 Energy Meters (23 09 23)**

**23 09 23 13-0001 Surge Protectors (23 09 23 13)**

23 09 23 13-0002 EA Surge Protector, T100's, Summit, BCU, UPCM, PCM, TCM (Transtector TR2255).....	358.82	12.32
23 09 23 13-0003 EA Surge Protector, 1AC Outlet (Transtector TR2251).....	272.27	12.32
23 09 23 13-0004 EA Surge Protector, 2 AC Outlets (Transtector TR2254).....	421.19	12.32
23 09 23 13-0005 EA Surge Protector, DB-15 Connection (Transtector TR2259-DLP15).....	230.01	12.32
23 09 23 13-0006 EA Surge Protector, DB-25 Connection (Transtector TR2259-DLP25).....	230.01	12.32
23 09 23 13-0007 EA Surge Protector, DB-9 Connection (Transtector TR2259-DLP9).....	230.01	12.32
23 09 23 13-0008 EA Surge Protector, Individual Wire Connection (Transtector TR2258).....	330.65	12.32
23 09 23 13-0009 EA Surge Protector, Trane Communication Links (Transtector TR2257).....	205.86	12.32

**23 09 23 14 Flow Instruments (23 09 23)**

**23 09 23 14-0001 Water Flow Meters (23 09 23 14)**

23 09 23 14-0002 EA Insertion Electromagnetic Water Flow Meter (Onicon F-3500).....	5,349.02	135.34
Note: Excludes pipe fittings.		

**23 09 23 14-0003 Air Flow Monitoring Stations (23 09 23 14)**

23 09 23 14-0004 EA Analog Transmitter, 2 Point, 3 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	4,213.15	147.44
Note: 10' cable, 36" x 24" typical duct size.		
23 09 23 14-0005 EA Analog Transmitter, 3 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	6,020.47	147.44
Note: 10' cable, 48" x 36" typical duct size.		
23 09 23 14-0006 EA Analog Transmitter, 4 Point, 4 Sensor Air Flow Monitoring Station (Ebtron GTA116).....	7,476.66	147.44
Note: 10' cable, 60" x 48" typical duct size.		

**23 09 23 16 Gas Instruments (23 09 23)**

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 09 23 16-0001 Gas Sensors</b> (23 09 23 16)		
23 09 23 16-0002 EA 6-1/4" x 6-1/8" CO2 Sensor, 0-2,000 ppm (Kele WCO-1B).....	2,226.09	73.93
23 09 23 16-0003 EA Wall Mounted CO2 Sensor, 0-2,000 ppm With LCD Display (Kele CD-AW-LCD) .....	990.90	49.29
23 09 23 16-0004 EA CO Monitor/Transmitter, 0 To 250 ppm (Kele GMT-CO-S2).....	1,776.08	73.93
Note: Solid state sensor.		
23 09 23 16-0005 EA CO2 Transmitter, Duct Mount, No Display, 0-10 Volt DC Out, 24 Volt AC/Volt DC, 0-10 Or 4-20mA, 0-2,000 ppm Range With CD-AD Duct Probe Assembly (CDE CD-AD-LCD; CD-AD) .....	986.47	88.72
<b>23 09 23 19 Moisture Instruments</b> (23 09 23)		
<b>23 09 23 19-0001 Relative Humidity Sensors</b> (23 09 23 19)		
23 09 23 19-0002 EA 3% Duct Mounted RH Sensor (Kele HD30K).....	629.68	88.72
23 09 23 19-0003 EA 10K Ohm Thermistor 3% Duct Mounted RH Sensor (Kele HD30K-T3) .....	645.76	88.72
23 09 23 19-0004 EA 3% RH Outdoor Air Sensor (Kele HO30K).....	741.53	123.21
23 09 23 19-0005 EA 2% Surface Mounted RH Transmitter (Kele HW20K) .....	555.66	49.29
<b>23 09 23 21 Motion Instruments</b> (23 09 23)		
<b>23 09 23 21-0001 Peco Motion Sensors</b> (23 09 23 21)		
23 09 23 21-0002 EA Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SA200-001).....	207.48	34.65
23 09 23 21-0003 EA Wall/Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SB200-001).....	203.65	34.65
23 09 23 21-0004 EA Wall/Ceiling Passive Infrared, 24 Volt, Master Motion Sensor (Peco SD200-001) .....	267.99	34.65
23 09 23 21-0005 EA Wall/Ceiling Mount, Passive Infrared, 24 Volt, Master Time Sensor (Peco SD200-002) .....	239.59	34.65
23 09 23 21-0006 EA Door Switch Occupancy Sensor (Peco SE200-001).....	83.56	34.65
23 09 23 21-0007 EA Window Switch Occupancy Sensor (Peco SE200-002).....	78.28	34.65
23 09 23 21-0008 EA Power Pack And Controller (Peco SF200-001).....	132.68	34.65
<b>23 09 23 23 Pressure Instruments</b> (23 09 23)		
<b>23 09 23 23-0001 Pressure Sensors</b> (23 09 23 23)		
23 09 23 23-0002 EA 0 To 0.5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-005).....	833.26	104.06
23 09 23 23-0003 EA 0 To 5" W.C., Differential Pressure Transmitters With NEMA 1 Case (Kele T30-050).....	746.90	104.06
23 09 23 23-0004 EA 0.05 To 12" W.C., Adjustable Differential Pressure Switches (Kele AFS-222).....	329.01	104.06
23 09 23 23-0005 EA 0.05 To 2" W.C., Adjustable Differential Pressure Switches (Kele AFS-262) .....	339.05	104.06
23 09 23 23-0006 EA 0.4 To 2" W.C., Manual Reset Adjustable Differential Pressure Switches (Kele AFS-460) .....	358.68	104.06
23 09 23 23-0007 EA 0.05 To 12" W.C., 1/8" NPT, Adjustable Differential Pressure Switches (Kele AFS-145) .....	336.14	104.06
23 09 23 23-0008 EA 0 To 100 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P210D-BVA) .....	2,936.58	104.06
Note: Excludes pipe fittings.		
23 09 23 23-0009 EA 0 To 60 psid, Bypass Valve Assembly Option, Water Differential Pressure Transmitter (Kele 360C-P160D-BVA) .....	2,936.58	104.06
Note: Excludes pipe fittings.		
23 09 23 23-0010 EA Magnahelic Gauge.....	836.77	63.61
<b>23 09 23 23-0011 Room Pressure Monitoring</b> (23 09 23 23)		
23 09 23 23-0012 EA Hospital Room Pressure Monitor With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8640-PM) .....	3,482.87	76.80
23 09 23 23-0013 EA Hospital Room Pressure Controller With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8630-PC).....	5,585.08	76.80
Note: Excludes dampers and actuators.		
23 09 23 23-0014 EA Hospital Room Pressure Status Remote Visual Display (TSI 8694-4).....	449.98	46.08
23 09 23 23-0015 EA Hospital Room Pressure Status Remote Negative/Neutral Key Switch (TSI 8694-7).....	517.08	46.08
<b>23 09 23 27 Temperature Instruments</b> (23 09 23)		
<b>23 09 23 27-0001 Air Temperature Sensors</b> (23 09 23 27)		
23 09 23 27-0002 EA 10K Ohm Thermistor Duct Temperature Sensor (Kele ST-D24).....	259.33	88.72
23 09 23 27-0003 EA 10K Ohm Thermistor Duct Temperature Sensor, 1/2" LB Conduit Fitting (Kele ST-D24-XCO).....	345.69	88.72
23 09 23 27-0004 EA 10K Ohm Thermistor Duct Temperature Sensor With Greenfield Fitting (Kele ST-D24-XG).....	269.26	88.72
23 09 23 27-0005 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing (Kele ST-D24-XH) .....	279.45	88.72
23 09 23 27-0006 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 18" Probe (Kele ST-D24-XH-XL18).....	282.84	88.72
23 09 23 27-0007 EA 10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 6" Probe (Kele ST-D24-XH-XL6).....	279.49	88.72
23 09 23 27-0008 EA 10K Ohm Thermistor Duct Temperature Sensor With Non-Metallic Handibox Housing (Kele ST-D24-XHP).....	281.29	88.72
23 09 23 27-0009 EA 10K Ohm Thermistor Duct Temperature Sensor With 4" Probe (Kele ST-D24-XL4) .....	298.45	88.72
23 09 23 27-0010 EA 10K Ohm Thermistor Duct Temperature Sensor With Weatherproof Housing (Kele ST-D24-XW).....	313.44	88.72
23 09 23 27-0011 EA 10K Ohm Thermistor Outdoor Air Temperature Sensor (Kele ST-Q24) .....	387.43	123.21
23 09 23 27-0012 EA 10K Ohm Thermistor Outdoor Air Temperature Sensor With 25' Lead (Kele ST-Q24-XC25).....	398.97	123.21
23 09 23 27-0013 EA Delta Style Surface Mounted 10K Ohm Thermistor Room Temperature Sensor (Kele BA/10K3-R-N-DF).....	172.00	49.29
23 09 23 27-0014 EA Delta Style Surface Mounted AD592 Room Temperature Sensor (Kele BA/592-10K-R) .....	176.24	49.29
23 09 23 27-0015 EA Stainless Steel Plate 1K Ohm Room Temperature Sensor (Kele BA/1K8-SP).....	165.10	49.29
<b>23 09 23 27-0016 Water Temperature Sensors</b> (23 09 23 27)		
23 09 23 27-0017 EA 5" Immersion 20K Ohm Water Temp Sensor (Honeywell C7041D2001).....	205.21	95.34
23 09 23 27-0018 EA Strap-On 20K Ohm Water Temp Sensor (Honeywell C7041K2005) .....	479.99	95.34
<b>23 09 23 27-0019 Peco Thermostats</b> (23 09 23 27)		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 27-0020 EA 3 Heating Stage, 2 Cooling Stage Programmable Thermostat With Humidification/Dehumidification Control (Peco T12532-IAQ).....	436.44	23.10
23 09 23 27-0021 EA 3 Heating Stage, 2 Cooling Stage Programmable Thermostat (Peco T12532-001).....	392.44	23.10
<b>23 09 23 53 Proprietary Control Systems (23 09 23)</b>		
<b>23 09 23 53-0001 EMCS General Costs (23 09 23 53)</b>		
<b>23 09 23 53-0002 EMCS System Design Services (23 09 23 53-0001)</b>		
Note: Hourly labor rates for use with Site Inspection, Project Management, Engineering, Design, Programming, Training and Technical Support.		
23 09 23 53-0003 HR EMCS Site Inspection Of Existing Facilities.....	381.19	
23 09 23 53-0004 HR EMCS Engineering Project Management.....	381.19	
23 09 23 53-0005 HR EMCS System Engineering, Schematic Design And Layout.....	404.30	
23 09 23 53-0006 HR EMCS System Software Programming And Graphics Programming.....	404.30	
23 09 23 53-0007 HR EMCS Graphics Picture Creation.....	259.99	
23 09 23 53-0008 HR EMCS System Controls Training.....	381.19	
23 09 23 53-0009 HR EMCS On Site System Diagnostics Field Technician.....	381.19	
23 09 23 53-0010 HR EMCS Remote Technical Support Using Phone Or Internet.....	317.74	
23 09 23 53-0011 HR EMCS Travel Time (All Personnel).....	329.30	
<b>23 09 23 53-0012 Field Tests, Checkout And Commissioning (23 09 23 53-0001)</b>		
Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.		
23 09 23 53-0013 PNT EMCS Field Test.....	202.23	
Note: Priced per point.		
23 09 23 53-0014 PNT EMCS Field Checkout And Startup.....	202.23	
Note: Priced per point.		
23 09 23 53-0015 PNT EMCS Field Commissioning.....	202.23	
Note: Priced per point.		
23 09 23 53-0016 EA EMCS Field Balance Support.....	173.27	
Note: Priced per controller.		
<b>23 09 23 53-0017 EMCS System Engineering/Submittal Design And Layout (23 09 23 53-0001)</b>		
Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.		
23 09 23 53-0018 PNT EMCS System Engineering/Submittal Design And Layout.....	67.46	
Note: Priced per point.		
<b>23 09 23 53-0019 Alerton Controls (23 09 23 53)</b>		
23 09 23 53-0020 EA 50 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-SMALL).....	10,555.14	
23 09 23 53-0021 EA 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-MEDIUM).....	13,350.64	
23 09 23 53-0022 EA Dashboard Option, 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-MEDIUM).....	32,658.97	
23 09 23 53-0023 EA Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-LARGE).....	24,683.79	
23 09 23 53-0024 EA Dashboard Option, Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-LARGE).....	62,460.94	
23 09 23 53-0025 EA Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-ENTERPRISE).....	49,414.39	
23 09 23 53-0026 EA Dashboard Option, Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-ENTERPRISE).....	75,053.31	
23 09 23 53-0027 EA Alerton Building Suite Tech License (Alerton ABS-3-TECH).....	2,159.22	
23 09 23 53-0028 EA Enterprise Edition With SQL Server Support, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-ENT1).....	28,931.62	
23 09 23 53-0029 EA Unlimited Controllers, Unlimited Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-LRG).....	21,363.59	
23 09 23 53-0030 EA 150 Controllers, 3 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-MED).....	13,291.89	
23 09 23 53-0031 EA 50 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-SM).....	8,494.17	
23 09 23 53-0032 EA 10 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-XS).....	3,363.52	
23 09 23 53-0033 EA 1 Ethernet, 1 MS/TP, BACTalk Control Module (Alerton 715000100).....	5,709.91	369.65
23 09 23 53-0034 EA Foreign Protocol Converter For P1 Systems, BACTalk Control Module (Alerton BCM-FPCS).....	8,376.02	492.86
23 09 23 53-0035 EA Modbus Gateway, BACTalk Control Module (Alerton BCM-MDBS).....	8,273.60	492.86
23 09 23 53-0036 EA V.90/56K Modem, BACTalk Control Module (Alerton BCM-MDM).....	3,233.40	369.65
23 09 23 53-0037 EA 1 MS/TP, BACTalk Control Module (Alerton 715000300).....	3,833.64	369.65
23 09 23 53-0038 EA Power Supply, BACTalk Control Module (Alerton BCM-PWS).....	3,048.70	369.65
23 09 23 53-0039 EA 1 TUX Trunk, BACTalk Control Module (Alerton BCM-TUX).....	3,695.97	369.65
23 09 23 53-0040 EA Web Server And Configurator CD, BACTalk Control Module (Alerton BCM-WEB).....	8,203.20	369.65
23 09 23 53-0041 EA BACTalk Field Level Gateway For Modbus (Alerton FLG-MODBUS).....	4,105.52	492.86
23 09 23 53-0042 EA EXP BACnet Controller (Alerton VLX).....	8,920.41	985.73
23 09 23 53-0043 EA VLX BACnet High Performance Controller (Alerton VLX-PLATINUM).....	10,234.23	985.73
23 09 23 53-0044 EA Multiple Segment MS/TP Repeater (Alerton MSTP-REP).....	1,328.66	109.75
23 09 23 53-0045 EA 4 Inputs, 2 Flow Transducers, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD).....	2,708.72	369.65
23 09 23 53-0046 EA 4 Inputs, 2 Flow Transducers, 3 Binary Triac Outputs, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD7).....	2,847.24	369.65
23 09 23 53-0047 EA 4 Inputs, 1 Flow Transducers, 3 Hot-Switching Binary Triac Outputs, 2 Ground-Switching Binary Triac Outputs, Single-Duct VAV Controller (Alerton VAV-SD).....	2,368.73	369.65
23 09 23 53-0048 EA 4 Universal Inputs, 5 Binary Outputs, 2 Analog Outputs, Single-Duct VAV Controller (Alerton VAV-SD2A).....	2,561.82	369.65
23 09 23 53-0049 EA 5 Universal Inputs, 6 Binary Outputs, Integral Honeywell Actuator, Single-Duct VAV Controller (Alerton VAVIH-SD).....	2,553.42	369.65

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 09 Instrumentation and Control for HVAC**

**23 09 23 Direct-Digital Control System for HVAC**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0050	EA		11 Inputs, 8 Binary Triac Outputs, 8 Analog Outputs, BACtalk Field Controller For Central Plant Systems (Alerton VLC-1188) .....	3,661.55	369.65
23 09 23 53-0051	EA		16 Inputs, BACtalk Field Controller (Alerton VLC-1600) .....	2,898.45	369.65
23 09 23 53-0052	EA		16 Inputs, 16 Binary Triac Outputs, BACtalk Field Controller (Alerton VLC-16160) .....	4,286.03	492.86
23 09 23 53-0053	EA		4 Universal Inputs, 4 Binary Outputs, 4 Analog Outputs, Field Controller (Alerton VLC-444) .....	1,926.43	246.44
23 09 23 53-0054	EA		5 Inputs, 5 Binary Outputs, BACtalk Field Controller (Alerton VLC-550) .....	1,871.01	246.44
23 09 23 53-0055	EA		6 Inputs, 2 Binary Triac Outputs, 3 Isolated Relay Outputs, BACtalk Field Controller (Alerton VLC-651R) .....	2,574.40	369.65
23 09 23 53-0056	EA		6 Inputs, 3 Binary Triac Outputs, 3 Isolated Relay Outputs, BACtalk Field Controller (Alerton VLC-660R) .....	2,574.40	369.65
23 09 23 53-0057	EA		8 Inputs, 5 Binary Triac Outputs, 3 Analog Outputs, BACtalk Field Controller (Alerton VLC-853) .....	3,021.85	369.65
23 09 23 53-0058	EA		16 Universal Inputs, 8 Binary Outputs, 8 Analog Outputs, Field Controller (Alerton VLCA-1688) .....	5,755.98	492.86
23 09 23 53-0059	EA		2 Fixed Inputs, 3 Universal Inputs, 6 Binary Outputs, 2 Analog Outputs, VisualLogic Display Controller (Alerton VLD-362) .....	2,654.15	369.65
23 09 23 53-0060	EA		Wireless Door Contact Sensor (Alerton AL-OC-DS) .....	168.87	13.86
23 09 23 53-0061	EA		One-Speed BACtalk Microset Wall Sensor (Alerton MS-1010-BT) .....	266.59	13.86
23 09 23 53-0062	EA		One-Speed BACtalk Microset Wall Sensor With RH Sensor (Alerton MS-1010H-BT) .....	662.82	13.86
23 09 23 53-0063	EA		Three-Speed BACtalk Microset Wall Sensor (Alerton MS-1030-BT) .....	662.82	13.86
23 09 23 53-0064	EA		Three-Speed BACtalk Microset Wall Sensor With RH Sensor (Alerton MS-1030H-BT) .....	518.45	13.86
23 09 23 53-0065	EA		BACnet-Compliant Wall Sensor (Alerton TS-1050-BT) .....	182.65	13.86
23 09 23 53-0066	EA		Wireless Temperature And Humidity Sensor (Alerton WTS-1000-KIT) .....	698.93	13.86
23 09 23 53-0067	EA		Wireless Temperature And Humidity Sensor With Temperature Adjustment Knob And Manual Override (Alerton WTS-1050-KIT) .....	782.89	13.86
23 09 23 53-0068	EA		10 12-Bit Inputs, 12 Binary Triac Outputs Expansion Module (Alerton EXP-10-12-0) .....	3,653.16	369.65
23 09 23 53-0069	EA		10 12-Bit Inputs, 4 Binary Triac Outputs Expansion Module (Alerton EXP-10-4-8) .....	3,859.66	369.65
23 09 23 53-0070	EA		22 12-Bit Inputs Expansion Module (Alerton EXP-22-0-0) .....	3,681.70	369.65
23 09 23 53-0071	EA		50 Devices, Ascent Compass 1 Software, Small License (Alerton Compass-1-SM) .....	11,320.51	
23 09 23 53-0072	EA		Global Controller Base Unit (Alerton ACM) .....	6,136.75	369.65
23 09 23 53-0073	EA		External Battery Pack For ACM (Alerton ACM-BATT) .....	1,335.24	205.61
23 09 23 53-0074	EA		Licenses The ACM For Capacity Of 32 Directly Connected Devices (Alerton ACM032) .....	1,032.88	
23 09 23 53-0075	EA		Microset 4 Wall Sensor (Alerton MS4-THC) .....	1,196.47	13.86

**23 09 23 53-0076 Automated Logic Controls (23 09 23 53)**

23 09 23 53-0077	EA		0 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0100) .....	4,070.10	369.65
23 09 23 53-0078	EA		0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0320) .....	9,390.24	1,108.94
23 09 23 53-0079	EA		2 Digital Outputs, 2 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M220nx) .....	2,924.99	369.65
23 09 23 53-0080	EA		4 Digital Outputs, 10 Universal Inputs, 6 Analog Outputs Standalone Control Module (Automated Logic M4106nx) .....	5,882.56	492.86
23 09 23 53-0081	EA		8 Digital Outputs, 10 Universal Inputs, 2 Analog Outputs Standalone Control Module (Automated Logic M8102nx) .....	5,797.10	492.86
23 09 23 53-0082	EA		16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M16160) .....	9,543.25	985.73
23 09 23 53-0083	EA		8 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M880nx) .....	5,241.64	492.86
23 09 23 53-0084	EA		0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX0320) .....	5,129.75	369.65
23 09 23 53-0085	EA		16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX16160) .....	9,030.52	985.73
23 09 23 53-0086	EA		No Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642) .....	2,171.17	246.44
23 09 23 53-0087	EA		With Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642D) .....	2,303.52	246.44
23 09 23 53-0088	EA		3 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN341+) .....	3,037.42	246.44
23 09 23 53-0089	EA		1 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN141+) .....	2,941.28	246.44
23 09 23 53-0090	EA		Air Flow Sensor And Damper Actuator Accessory For ZN341V+ Or ZN141V+ (Automated Logic ZASF) .....	2,702.80	369.65
23 09 23 53-0091	EA		Unlimited Points, Front End Software For Building Control (Automated Logic WC) .....	14,891.22	
23 09 23 53-0092	EA		500 Point, Front End Software For Building Control (Automated Logic WC500) .....	9,678.40	
23 09 23 53-0093	EA		Enterprise Integration Option, Front End Software For Building Control (Automated Logic WC-ENTERPRISE) .....	11,914.16	

**23 09 23 53-0094 Cypress Envirosystems Controls (23 09 23 53)**

**23 09 23 53-0095 Wireless Pneumatic Thermostat (23 09 23 53-0094)**

Note: Wireless pneumatic thermostats, hub and repeaters must be installed by installers certified by the manufacturer.

23 09 23 53-0096	EA		Two-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2DP) .....	558.20	15.41
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-28.18	
			For >200, Deduct	-56.32	
23 09 23 53-0097	EA		Two-Pipe Reverse Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2RP) .....	558.20	15.41
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-28.18	
			For >200, Deduct	-56.32	
23 09 23 53-0098	EA		Single-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T1DP) .....	558.20	15.41
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-28.18	
			For >200, Deduct	-56.32	
23 09 23 53-0099	EA		Single-Pipe Indirect Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T1RP) .....	558.20	15.41
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-28.18	
			For >200, Deduct	-56.32	
23 09 23 53-0100	EA		Two-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2DP-DB) .....	633.69	15.41
			Note: One for every thermostat to be retrofitted.		
			For >50 To 200, Deduct	-32.38	
			For >200, Deduct	-64.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0101 EA Two-Pipe Reverse Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T2RP-DB) ..... Note: One for every thermostat to be retrofitted. For >50 To 200, Deduct ..... For >200, Deduct .....	633.69 -32.38 -64.70	15.41
23 09 23 53-0102 EA Single-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP-DB) ..... Note: One for every thermostat to be retrofitted. For >50 To 200, Deduct ..... For >200, Deduct .....	633.69 -32.38 -64.70	15.41
23 09 23 53-0103 EA Single-Pipe Indirect Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-LoRa-T1RP-DB) ..... Note: One for every thermostat to be retrofitted. For >50 To 200, Deduct ..... For >200, Deduct .....	633.69 -32.38 -64.70	15.41
23 09 23 53-0104 EA Wireless Pneumatic Thermostat Blank Cover (Cypress Envirosystems WPT-800-MCOV) ..... Note: Optional cover. For >50 To 200, Deduct ..... For >200, Deduct .....	47.78 -1.80 -3.60	15.41
23 09 23 53-0105 EA Green Box Controller (Cypress Envirosystems GBC-830-COM) ..... Note: One unit for up to 100 thermostats. For 2, Deduct ..... For >2, Deduct .....	5,056.17 -246.87 -493.29	15.41
23 09 23 53-0106 EA WPT USB Hub (Cypress Envirosystems WPT-800-HUSB) ..... Note: One unit for up to 100 thermostats. For 2, Deduct ..... For >2, Deduct .....	478.66 -25.76 -51.47	15.41
23 09 23 53-0107 EA WPT Repeater (Cypress Envirosystems WPT-800-RWAL) ..... Note: One unit for up to 15 thermostats. For >5 To 10, Deduct ..... For >10, Deduct .....	842.23 -42.55 -85.02	15.41
23 09 23 53-0108 EA 24 Volt, WPT Repeater (Cypress Envirosystems WPT-800-RWAL24V) ..... Note: One unit for up to 15 thermostats. For >5 To 10, Deduct ..... For >10, Deduct .....	1,043.86 -49.48 -98.86	15.41
<b>23 09 23 53-0109 Delta Controls</b> (23 09 23 53)		
<b>23 09 23 53-0110 Software</b> (23 09 23 53-0109) Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0111 EA Orca Software Unlimited Points License (Delta Controls DOW333-USB) .....	2,578.59	
23 09 23 53-0112 EA Orca Graphics Module, Delta Controls Orca View With Graphics Creation Capabilities (Delta Controls DOW333-I-USB) .....	4,196.70	
23 09 23 53-0113 EA Orca Historical Module, Delta Controls Historian Package With Unlimited Archiving Trend Logs (Delta Controls DHS330-HL-USB) .....	9,092.85	
23 09 23 53-0114 EA Web Server Unlimited Points License, Delta Controls Web Server Front End (Delta Controls DWS330-L-USB) .....	14,469.24	
23 09 23 53-0115 EA Web Server Limited Points (Maximum I/O 2500) License, Delta Controls Web Server Front End (Delta Controls DWS330-M-USB) .....	7,474.74	
23 09 23 53-0116 EA Web Server Limited Points (Maximum I/O 250) License, Delta Controls Web Server Front End (Delta Controls DWS330-S-USB) .....	2,578.59	
23 09 23 53-0117 EA 100 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.01) .....	6,075.84	
23 09 23 53-0118 EA 1,000 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.02) .....	7,474.74	
23 09 23 53-0119 EA KW Meter With H8163-2400-4-3 Series, With 3, 2,400 Amperes CT's And BACnet MS/TP Interface (Delta Controls H8186-CB) .....	2,728.42	154.02
23 09 23 53-0120 EA Delta Controls Touch Screen (Delta Controls DHMI-7-I) .....	2,859.41	
<b>23 09 23 53-0121 EMCS Central Equipment And Controllers</b> (23 09 23 53-0109)		
23 09 23 53-0122 EA Fully Programmable, Native BACnet Building Controller (Delta Controls DSC-1616E + DFM1616) .....	9,940.19	616.08
Note: Includes 32 Universal Inputs/32 Analog Or Binary Outputs HOA's, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), SubLAN (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS, Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup		
23 09 23 53-0123 EA Fully Programmable, Native BACnet Building Controller, 16 Universal Inputs/16 Analog Or Binary Outputs HOA'S, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), Sublan (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS (Maximum 12 Devices On LINKnet, With 2 DFM Devices) Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup (Delta Controls DSC-1616E) .....	7,701.95	616.08
23 09 23 53-0124 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146) .....	5,837.91	616.08
23 09 23 53-0125 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 8 Analog Or Binary Outputs (Delta Controls DAC-1180) .....	5,837.91	616.08
23 09 23 53-0126 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146) .....	5,837.91	616.08
23 09 23 53-0127 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3) .....	5,497.04	616.08
23 09 23 53-0128 EA VAV Controllers Are Native BACnet Application Controllers That Are Fully Programmable, Communicate On A RS-485 LAN Using The MS/TP BACnet Protocol, 3 Universal Inputs, 4 Binary Outputs, Actuator Position Feedback, Supports 4 BACstat Network Sensors On LINKnet For Room Sensing And Control Or 2 Delta Field Modules On LINKnet For I/O Expansion (Delta Controls DVC-304AF) .....	1,851.17	308.04

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0129 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240) .....	1,700.79	308.04
23 09 23 53-0130 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3).....	1,800.57	308.04
23 09 23 53-0131 EA Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240) .....	1,700.79	308.04
23 09 23 53-0132 EA Remotely Expandable I/O To Delta's BACnet Controllers, 16 Universal Inputs, 16 Analog Outputs (Delta Controls DFM-1616) .....	3,778.44	385.05
23 09 23 53-0133 EA Remotely Expandable I/O To Delta's BACnet Controllers, 4 Universal Inputs, 4 Analog Outputs (Delta Controls DFM-440) .....	982.77	154.02
23 09 23 53-0134 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 4 Universal Inputs, 4 Binary Triac Outputs (Delta Controls DFM-404) .....	1,046.17	154.02
23 09 23 53-0135 EA Remotely Expandable I/O To Delta's BACnet™ Controllers, 16 Universal Inputs (Delta Controls DFM-1600).....	1,210.61	154.02
<b>23 09 23 53-0136 Network, VAV And Special Sensors</b> (23 09 23 53-0109)		
23 09 23 53-0137 EA BACnet MS/TP VAV Network Room Temperature Sensor With LCD Display (Delta Controls DNS-24) .....	311.96	49.29
23 09 23 53-0138 EA BACnet MS/TP VAV Network Temperature And Humidity Sensor With LCD Display (Delta Controls DNS-H24).....	418.40	55.45
23 09 23 53-0139 EA Programmable BACnet MS/TP Thermostat With 8 Button Keypad And LCD Display For DX Unit, Fan Coils And RTU (Delta Controls DAC-T305-G2B).....	797.48	23.10
<b>23 09 23 53-0140 Honeywell Controls</b> (23 09 23 53)		
<b>23 09 23 53-0141 EMCS Central Equipment And Controllers</b> (23 09 23 53-0140)		
<b>23 09 23 53-0142 EMCS Network Area Controllers (BACnet Or Lon)</b> (23 09 23 53-0141)		
Note: Includes loading software, software license, loading data base and mounting on wall.		
23 09 23 53-0143 EA Network Area Java Controller Supporting 126 Devices (Honeywell WC2003B2004).....	13,451.88	750.84
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 minimum RS-232 serial ports, 1 minimum RS-485 electrically isolated ports, 1 LonWorks port (supports 126 devices), and web user interface software.		
23 09 23 53-0144 EA Network Area Java Controller Supporting 27 Devices (Honeywell WC2003B1022).....	9,453.42	750.84
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-232 port, 1 RS-485 port, 1 LonWorks port with driver, Lon tunnel service, BACnet driver, wind river VxWorks OS with Jeode java virtual machine, Niagara control engine and web user interface software (supports 27 device).		
23 09 23 53-0145 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201).....	7,426.43	750.84
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Supports up to 10 devices.		
23 09 23 53-0146 EA Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-EZ).....	9,039.44	750.84
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Includes WEB user interface and Enterprise connectivity pack.		
23 09 23 53-0147 EA Niagara Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LN).....	7,370.89	750.84
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485 communications. Includes Niagara network ethernet communication between stations.		
23 09 23 53-0148 EA Web UI Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LU).....	7,370.89	750.84
Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485.		
23 09 23 53-0149 EA 16 Point BACnet IP Network Area Java Controller (Honeywell WEB-216-B).....	7,928.76	750.84
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0150 EA 16 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-216-BU).....	8,514.39	750.84
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0151 EA 16 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....	7,928.76	750.84
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0152 EA 16 Point Web UI And Niagara Network Area Java Controller (Honeywell WEB-216-NU).....	8,514.39	750.84
Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0153 EA 34 Point BACnet IP Network Area Java Controller (Honeywell WEB-234-B).....	8,519.44	750.84
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		
23 09 23 53-0154 EA 34 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-234-BU).....	9,105.07	750.84
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.		
23 09 23 53-0155 EA 34 Point Niagara Network Area Java Controller (Honeywell WEB-216-N).....	8,519.44	750.84
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0156 EA 34 Point Web UI and Niagara Network Area Java Controller (Honeywell WEB-216-NU).....	9,105.07	750.84
Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.		
23 09 23 53-0157 EA Network Area Java Controller Supporting 27 Devices (Controller Only) (Honeywell WEB-403-AX).....	9,011.68	750.84
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0158 EA Unrestricted Network Area Java Controller Supporting 27 Devices (Controller Only).....	10,967.99	750.84
Note: Unrestricted limit on connected devices. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. Honeywell WEB-403-EXP-AX. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0159 EA Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EZ).....	11,571.29	750.84
Note: Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0160 EA Expanded Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EXP-EZ).....	13,527.61	750.84
Note: Unrestricted limit on connected devices. Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0161 EA Network Area Java Controller Supporting 124 Devices (Controller Only) (Honeywell WEB-545-AX).....	11,599.06	750.84
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other WEBs controllers, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0162 EA Easy Pack Network Area Java Controller Supporting 124 Devices (Honeywell WEB-545-EZ).....	15,327.42	750.84
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other JACEs, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Includes WEB-545-AX plus User Interface Station Pack (UI-SP-5XX) and Enterprise Connectivity Station Pack (EC-SP-5XX) bundled as an "easy-order" bundle.		
<b>23 09 23 53-0163 EMCS Network Interfaces (23 09 23 53-0141)</b>		
Note: Includes installation, start-up and tech labor.		
23 09 23 53-0164 EA Serial LonTalk Adapter For LonWorks Bus And A PC (Honeywell Q7760A2001).....	1,883.76	207.93
Note: For desktop computer.		
23 09 23 53-0165 EA Serial LonTalk Card For LonWorks Bus And A PC (Honeywell Q7752B2009).....	1,612.40	138.62
Note: For laptop computer.		
23 09 23 53-0166 EA FTT-10 To FTT-10 Router (Honeywell Q7751A2010).....	2,069.65	259.99
23 09 23 53-0167 EA 4FTT-10 To TP/FTT-1250 Multi Port Router (Honeywell Q7751J2002).....	3,118.49	375.50
23 09 23 53-0168 EA Two Way Lon Repeater (Honeywell Q7740A1008).....	1,656.93	375.50
23 09 23 53-0169 EA FTT Termination Module For Network Bus (Honeywell 209541B).....	128.36	46.21
<b>23 09 23 53-0170 DDC Application Specific Controller Assemblies (23 09 23 53-0141)</b>		
Note: Includes submittal generation, installation, field test, checkout and start-up. Includes control enclosure, transformer, terminal strip and ancillary devices. (For example, fan coil unit include valves, actuators with controller and thermostat; VAVs include controller, thermostat and hot water valve if VAV has reheat coil). Excludes graphics and database generation. Excludes discharge air sensor.		
23 09 23 53-0171 EA Up To 10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	3,147.71	849.08
23 09 23 53-0172 EA >10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,570.13	502.53
23 09 23 53-0173 EA Up To 10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	3,390.28	994.63
23 09 23 53-0174 EA >10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....	2,812.71	648.08
23 09 23 53-0175 EA Up To 10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	3,729.36	1,039.73
23 09 23 53-0176 EA >10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	3,296.11	779.03
23 09 23 53-0177 EA Up To 10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	3,989.24	1,195.67
23 09 23 53-0178 EA >10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....	3,521.28	915.03
23 09 23 53-0179 EA Up To 10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....	2,814.97	848.96
23 09 23 53-0180 EA >10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....	2,237.39	502.53
23 09 23 53-0181 EA Up To 10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....	3,132.71	1,039.73
23 09 23 53-0182 EA >10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....	2,554.98	693.09
23 09 23 53-0183 EA Up To 10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies.....	3,677.96	862.94
23 09 23 53-0184 EA >10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies.....	3,088.83	705.41
23 09 23 53-0185 EA Up To 10 Field Installed Application Specific Fan Coil Unit Controller Assemblies.....	3,995.69	1,195.65
23 09 23 53-0186 EA >10 Field Installed Application Specific Fan Coil Unit Controller Assemblies.....	3,406.41	794.74
23 09 23 53-0187 EA Up To 10 Factory Installed Application Specific Unit Ventilator Controller Assemblies.....	4,583.30	1,195.65
23 09 23 53-0188 EA >10 Factory Installed Application Specific Unit Ventilator Controller Assemblies.....	4,057.79	763.93
23 09 23 53-0189 EA Up To 10 Field Installed Application Specific Unit Ventilator Controller Assemblies.....	5,218.79	1,195.65
23 09 23 53-0190 EA >10 Field Installed Application Specific Unit Ventilator Controller Assemblies.....	4,693.11	894.85
<b>23 09 23 53-0191 DDC Programmable Controller Assemblies (23 09 23 53-0141)</b>		
Note: Includes installation, field test, checkout and start-up. Includes control enclosure, transformer and terminal strip only. Excludes ancillary devices. Excludes submittal generation/system engineering and database generation. See CSI section 23 09 23 53-0198 for additional components.		
23 09 23 53-0192 EA 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....	3,240.06	918.42
23 09 23 53-0193 EA Oversized Enclosure 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....	3,718.69	918.42
23 09 23 53-0194 EA 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies.....	4,919.08	1,080.14
23 09 23 53-0195 EA Oversized Enclosure 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies.....	5,397.71	1,080.14

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0196 EA 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....	8,792.57	1,264.96
23 09 23 53-0197 EA Oversized Enclosure 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....	9,345.85	1,264.96
<b>23 09 23 53-0198 EMCS Optional DDC Controller Hardware</b> <small>(23 09 23 53-0141)</small>		
Note: Used to expand the capacity of DDC programmable controller assemblies.		
23 09 23 53-0199 EA 6 DO (Repay), 3 AI, 3 DI AHU Controller (Honeywell W7750A2005).....	575.54	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0200 EA 6 AI, 5 DI, 8 DO (Triac) AHU Controller (Honeywell W7750B2011).....	665.15	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0201 EA 3 AO, 6 AI, 5 DI, 5 DO (Triac) AHU Controller (Honeywell W7750C2001).....	696.70	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0202 EA VAV Controller Compatible Printed Wiring Board (Honeywell W7751B2010).....	657.57	
23 09 23 53-0203 EA VAV Controller With Internally Wired Subbase (Honeywell W7751D2016).....	667.67	
23 09 23 53-0204 EA VAV Controller With Externally Wired Subbase (Honeywell W7751F2011).....	652.53	
23 09 23 53-0205 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751H2025).....	561.65	
23 09 23 53-0206 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751J2004).....	488.45	
23 09 23 53-0207 EA Fan Coil Unit Controller With Electric Reheat Relay (Honeywell W7752F2002).....	715.63	
23 09 23 53-0208 EA Fan Coil Unit Controller Without Electric Reheat Relay (Honeywell W7752G2000).....	639.90	
23 09 23 53-0209 EA Unit Ventilator Controller With Heating, Cooling, Actuator And Fan Control (Honeywell W7753A2002).....	706.80	
23 09 23 53-0210 EA Building Manager, Monitor And Control HVAC Equipment (Honeywell W7760A2011).....	1,500.68	
23 09 23 53-0211 EA Plant Controller, Monitor And Control HVAC Equipment (Honeywell W7760C2017).....	1,866.71	
23 09 23 53-0212 EA Remote IO Device For Ancillary Point Monitoring And Control (Honeywell W7761A2002).....	932.72	
23 09 23 53-0213 EA Remote IO, UUKL-UL 864 Approved (Honeywell W7761A2010).....	918.84	
23 09 23 53-0214 EA Hydronic Controller Without Wall Module (Honeywell W7762B1027).....	450.58	
23 09 23 53-0215 EA Hydronic Controller With Built-in Wall Module (Honeywell W7763C1016).....	512.43	
23 09 23 53-0216 EA IO Module, 24 Volt AC Without Overrides (Honeywell XFC3A06001).....	946.60	
23 09 23 53-0217 EA IO Module, 24 Volt AC With Overrides (Honeywell XFC3D06001).....	1,012.24	
23 09 23 53-0218 EA AI Module (Honeywell XFL521B).....	633.59	
23 09 23 53-0219 EA AO Module (Honeywell XFL522B).....	633.59	
23 09 23 53-0220 EA DI Module (Honeywell XFL523B).....	633.59	
23 09 23 53-0221 EA DO Module (Honeywell XFL524B).....	633.59	
23 09 23 53-0222 EA Distributed IO, Lonwork Bus Connector Module With Endplate (Honeywell XSL511).....	112.33	
23 09 23 53-0223 EA Distributed IO, Terminal Block For AI, AO And DI Modules (Honeywell XSL513).....	212.04	
23 09 23 53-0224 EA Distributed IO, Terminal Block For DO Modules (Honeywell XSL514).....	208.25	
23 09 23 53-0225 EA Lon Analog IO Module, 24 Volt AC/DC, 10 Digital Inputs (Honeywell XIO-10DI).....	637.38	
23 09 23 53-0226 EA Lon Hub (Honeywell XIO-HUB).....	94.66	
23 09 23 53-0227 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Outputs (Honeywell XIO-4AO).....	637.38	
23 09 23 53-0228 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Inputs (Honeywell XIO-4DI).....	586.90	
23 09 23 53-0229 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Outputs (Honeywell XIO-4DO).....	586.90	
23 09 23 53-0230 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Inputs (Honeywell XIO-4NTC).....	618.45	
23 09 23 53-0231 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog PT1000 Inputs (Honeywell XIO-4PT1000).....	618.45	
23 09 23 53-0232 EA Lon Analog IO, 24 Volt AC/DC, 8 Analog Inputs (Honeywell XIO-8AI).....	889.81	
23 09 23 53-0233 EA 16 Point IO Module For Network Area Controllers (Honeywell WEB-IO-16).....	1,050.10	
Note: Includes 8 universal inputs, 4 relay outputs, and 4 analog outputs.		
23 09 23 53-0234 EA 34 Point IO Module For Network Area Controllers (Honeywell W7750A2005).....	2,231.46	
Note: Includes 16 universal inputs, 10 relay outputs, and 8 analog outputs.		
<b>23 09 23 53-0235 EMCS Software</b> <small>(23 09 23 53-0140)</small>		
<b>23 09 23 53-0236 Software Packages And License</b> <small>(23 09 23 53-0235)</small>		
Note: Includes installation on equipment.		
23 09 23 53-0237 EA On Board Programming Tool For Network Area Controllers (Honeywell WP-AX-WEB).....	711.85	
Note: Requires UI services to be installed on NAC.		
23 09 23 53-0238 EA Software Upgrade To Provide Unrestricted Connected Device Limit (Honeywell WEB-403-EXUP-AX).....	2,773.57	
Note: Upgrade existing network area controller. As with other WEBS controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0239 EA WEBStation-AX Software For Windows (Honeywell WEB-S-AX).....	7,951.48	
Note: Includes Archon database. WEBS controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes one copy of WP-AX (WEBPro-AX).		
23 09 23 53-0240 EA Small Building WEBStation-AX Based Software (Honeywell WEB-S-AX-SBS).....	4,733.02	
Note: For up to 3 NAC controllers. NAC controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes Archon database.		
23 09 23 53-0241 EA Upgrade Small Building To Large Building Software.....	5,424.06	
Note: Upgrade WEB-S-AX-SBS to WEB-S-AX.		
23 09 23 53-0242 EA Additional Copy Of WEBPro-AX (Honeywell WEB-S-AX-W).....	3,835.69	
Note: One copy is included with WEB-S-AX and WEBStation-AX.		
23 09 23 53-0243 EA WEBS Energy Suite (WES) Base Software (Honeywell WES-BASE-AX).....	6,795.41	
Note: Includes license for 10 points of E <sup>2</sup> Profiler and 2 licensed meters of Cost Profiler. Limit of one WES-BASE per WEBStation-AX Supervisor. Additional E <sup>2</sup> Profiler point requirements or Cost Profiler meter requirements may use one or any combination of point/meter bundles. One WES-BASE required per WES project.		
23 09 23 53-0244 EA Perpetual License One Meter Point Bundle Of A Cost Profiler Meter And Two E <sup>2</sup> Profiler Points (Honeywell WES-CP-AX).....	932.77	
Note: Can be combined with the required single instance of VES-BASE as well as with any combination of other EP points and CP meters.		
23 09 23 53-0245 EA Perpetual License For One Point Of E <sup>2</sup> Profiler (Honeywell WES-E2-AX).....	636.17	
Note: Can be combined with the required single instance of VES-BASE as well as with any number of other EP Points and Cost Profiler meters.		
23 09 23 53-0246 EA Perpetual License For An Unlimited Bundle Of E2 Points And CP Meters.....	36,586.96	
Note: Sold on a per server basis. Purchase of this product must be accompanied by VES-M1-ENT-AX maintenance. The first year price of maintenance is included with VES-ENT-AX.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0247 EA Annual Maintenance For Enterprise WEBS-AX Energy Suite (Honeywell WES-M1-ENT-AX).....	33,393.22	
Note: The first year cost of VES-M1-ENT-AX is included with VES-ENT-AX. After the first year VES-M1-ENT-AX maintenance fee will be invoiced annually.		
23 09 23 53-0248 EA Standard WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX) .....	12,679.46	
23 09 23 53-0249 EA Small WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX-SBS).....	9,461.00	
23 09 23 53-0250 EA Add 500 Modbus TCP Points To WEBStation With WS-OSD Option (Honeywell WS-MTCP-500).....	2,735.06	
23 09 23 53-0251 EA Add 500 OPC Points To WEBStation With WS-OSD Option (Honeywell WS-OPC-500) .....	2,735.06	
23 09 23 53-0252 EA Vykon Oracle Driver For Support Of Oracle Database (Honeywell WS-ORCL) .....	18,932.10	
Note: Excludes Oracle.		
23 09 23 53-0253 EA Open System Driver Option (Honeywell WS-SNMP-500).....	2,524.28	
Note: Adds 25 points each of BACnet IP, OPC (client), Modbus TCP and SNMP to a standard WEBStation. Can be purchase with the WS or added later. Web Supervisor required to purchase this option.		
23 09 23 53-0254 EA Add 500 SNMP Points To WEBStation With WS-OSD Option (Honeywell WS-SNMP-500) .....	2,735.06	
23 09 23 53-0255 EA WEBStation Software WS-1 And First Copy Of WEBPro Software (Honeywell ZW2000A1003).....	7,152.55	
Note: For a single Honeywell WEB NP controller. Excludes software keys for the additional nodes.		
23 09 23 53-0256 EA WEBStation Additional Node (Honeywell ZW2000B1002) .....	2,735.06	
23 09 23 53-0257 EA WEBStation Software And 20 Pack Of Node Software Keys (Honeywell ZW2000C1001).....	45,858.59	
23 09 23 53-0258 EA WEBStation Software And 50 Pack Of Node Software Keys (Honeywell ZW2000D1000).....	84,143.09	
23 09 23 53-0259 EA WEBStation Software And 100 Pack Of Node Software Keys (Honeywell ZW2000E1009).....	147,250.09	
23 09 23 53-0260 EA Master WEBStation Software For Monitoring Multiple WEBStations (Honeywell ZW2000F1008) .....	7,572.84	
23 09 23 53-0261 EA Additional Master WEBStation Software Licenses (Honeywell ZW200G1007) .....	3,786.42	
23 09 23 53-0262 EA Additional Copies Of Workplace Pro WP-1 (Web Pro) (Honeywell ZW2001A1001).....	3,058.21	
23 09 23 53-0263 EA Upgrade Existing NAC To Provide Unrestricted Connected Device Limit (Honeywell WC2003B1055).....	3,341.53	
Note: As with other WEBS, capacity is limited by the characteristics of the application including size and complexity.		
<b>23 09 23 53-0264 Initial Database Generation (23 09 23 53-0235)</b>		
23 09 23 53-0265 PNT Database Generation For Central Plant.....	103.34	
23 09 23 53-0266 PNT Database Generation For Programmable Controller .....	103.34	
Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 53-0267 EA Database Generation For Application Specific Controller.....	103.34	
Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 53-0268 EA Replication Of Database Generation For Application Specific Controller .....	71.93	
Note: Price per copy made.		
23 09 23 53-0269 EA Database Generation For Remote IO Modules, Sensors, Etcetera .....	71.93	
<b>23 09 23 53-0270 Application Software Programs (23 09 23 53-0235)</b>		
23 09 23 53-0271 EA Basic Application Program Package.....	4,312.55	
Note: One per project. Includes program inputs, command priorities, alarms, trends for analog and digital points, energy totalization, schedules, calendars, special events, occupied and unoccupied setpoints, ventilation and recirculation modes, hot water reset program, chilled water reset program, condenser water reset program, and fail-over logic.		
23 09 23 53-0272 EA Optimum Start/Stop Program.....	144.17	
Note: Priced per controller requiring optimum start programming.		
23 09 23 53-0273 EA Duty Cycling Program.....	68.08	
23 09 23 53-0274 EA Hot Deck/Cold Deck Reset Application Program .....	7,408.79	
23 09 23 53-0275 EA Boiler Optimization Program .....	9,708.77	
23 09 23 53-0276 EA Chiller Optimization Program .....	13,151.50	
23 09 23 53-0277 EA Lighting Control Program .....	6,346.42	
23 09 23 53-0278 EA Demand Limiting Program .....	126.45	
Note: Priced per controller requiring optimum start programming.		
23 09 23 53-0279 EA Email Alarm Server Configuration.....	4,895.98	
<b>23 09 23 53-0280 Color Graphics Generation (23 09 23 53-0235)</b>		
Note: Priced per page.		
23 09 23 53-0281 EA Single Site Home Page Graphics Page With HTML Navigation Code.....	2,584.16	
23 09 23 53-0282 EA Multi Site Home Page Graphics Page With HTML Navigation Code .....	4,588.07	
23 09 23 53-0283 EA Color Graphics Page For Central Plant .....	1,174.10	
23 09 23 53-0284 EA Color Graphics Page For Building Floor Plan .....	1,084.14	
23 09 23 53-0285 EA Replication Of Color Graphics Page For Central Plant.....	588.97	
23 09 23 53-0286 EA Color Graphics Page For Programmable Controller .....	1,320.87	
Note: For VAV AHU, large CV AHU, or heat exchanger, etc.		
23 09 23 53-0287 EA Replication Of Color Graphics Page For Programmable Controller.....	282.48	
Note: Priced per copy made.		
23 09 23 53-0288 EA Color Graphics Page For Application Specific Controller.....	1,221.68	
Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.		
23 09 23 53-0289 EA Replication Of Color Graphics Page For Application Specific Cont .....	122.14	
Note: Priced per copy made.		
<b>23 09 23 53-0290 Sensors, Actuators And Control Devices (23 09 23 53-0140)</b>		
Note: Includes installation, startup, checkout and miscellaneous parts for installation. Excludes conduit, wire and cable. Excludes engineering and programming labor. Each device is considered one control point. No engineering or programming time required for replacement parts.		
<b>23 09 23 53-0291 Special Sensors (23 09 23 53-0290)</b>		
23 09 23 53-0292 EA Dewpoint Sensor (Honeywell C7232B1014).....	2,300.67	95.34
23 09 23 53-0293 EA Enthalpy Sensor -25 To 125 F.....	2,398.20	95.34

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0294 EA Outdoor Mounted Temperature And Humidity Transmitter (Honeywell H7635C1002) .....	1,157.04	190.68
23 09 23 53-0295 EA Freezestat (Honeywell L482A1004).....	813.28	317.74
23 09 23 53-0296 EA Wall Mounted Occupancy Sensor.....	565.13	95.34
23 09 23 53-0297 EA Ceiling Mounted Occupancy Sensor.....	457.61	95.34
23 09 23 53-0298 EA I/P Positioner With Gauge.....	537.63	95.34
23 09 23 53-0299 EA Non-Communicating Duct Mounted Smoke Detector With Sampling Tube .....	644.63	95.34
23 09 23 53-0300 EA EP Transducer.....	537.63	63.61
23 09 23 53-0301 EA Electric Heat Sequencer .....	861.47	127.06
<b>23 09 23 53-0302 Meters (23 09 23 53-0290)</b>		
23 09 23 53-0303 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer.....	5,475.63	762.40
23 09 23 53-0304 EA 208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer With LON interface .....	7,995.66	889.46
23 09 23 53-0305 EA 1 To 300 Amperes, Current Transformer For KW Meter.....	1,955.68	317.74
23 09 23 53-0306 EA 300 To 800 Amperes, Current Transformer For KW Meter.....	2,206.96	317.74
23 09 23 53-0307 EA 800 To 2,400 Amperes, Current Transformer For KW Meter .....	2,688.87	317.74
<b>23 09 23 53-0308 Direct Coupled Actuators (23 09 23 53-0290)</b>		
23 09 23 53-0309 EA 44 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4105A1002).....	748.88	126.70
23 09 23 53-0310 EA 88 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4110A1200).....	819.67	126.70
23 09 23 53-0311 EA 175 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4120A1209).....	941.39	126.70
23 09 23 53-0312 EA 44 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8105A1008).....	707.46	126.70
23 09 23 53-0313 EA 88 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8110A1206).....	783.59	126.70
23 09 23 53-0314 EA 175 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8120A1205).....	858.98	126.70
23 09 23 53-0315 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator.....	787.75	126.70
23 09 23 53-0316 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7510A2206).....	896.31	126.70
23 09 23 53-0317 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7520A2205).....	1,013.49	126.70
23 09 23 53-0318 EA 44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7505A2209).....	650.98	126.70
23 09 23 53-0319 EA 88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7510A2209).....	708.78	126.70
23 09 23 53-0320 EA 175 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6120A1200).....	824.91	126.70
23 09 23 53-0321 EA 175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7220A2007) .....	879.57	126.70
23 09 23 53-0322 EA 300 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6134A10030).....	878.89	126.70
23 09 23 53-0323 EA 300 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7234A2008) .....	1,028.80	126.70
23 09 23 53-0324 EA Pneumatic Spring Return Damper Actuator Without Positive Positioner (Honeywell MP909E1018).....	674.67	126.70
23 09 23 53-0325 EA Pneumatic Spring Return Damper Actuator With Positive Positioner (Honeywell MP909H1368).....	1,161.25	126.70
23 09 23 53-0326 EA Foot Mount Kit With Damper Linkage And Connectors For Direct Coupled Actuator .....	514.55	126.70
23 09 23 53-0327 EA Direct Coupled Damper Actuator Enclosure For Outdoor Use.....	773.16	126.70
<b>23 09 23 53-0328 Thermostats (23 09 23 53-0140)</b>		
<b>23 09 23 53-0329 Electric And Electronic Thermostats (23 09 23 53-0328)</b>		
Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as one control point.		
23 09 23 53-0330 EA Line Voltage 120 Volt, Heat/Cool Thermostat (Honeywell T651A3018) .....	255.58	23.10
23 09 23 53-0331 EA Electronic Non-Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell TH5320).....	273.52	23.10
23 09 23 53-0332 EA Electronic Programmable Heating/Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6110).....	253.59	23.10
23 09 23 53-0333 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6220).....	280.89	23.10
23 09 23 53-0334 EA Electronic Programmable Three Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6320).....	301.42	23.10
23 09 23 53-0335 EA Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH8321).....	432.98	23.10
23 09 23 53-0336 EA Humidity Control Electronic Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7351F) .....	620.35	23.10
23 09 23 53-0337 EA Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350H).....	990.82	23.10
23 09 23 53-0338 EA Modulating Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350M) .....	1,055.19	23.10
<b>23 09 23 53-0339 Pneumatic Thermostats (23 09 23 53-0328)</b>		
Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as two control point.		
23 09 23 53-0340 EA Pneumatic Thermostat (Honeywell TP970B2182).....	340.42	23.10
<b>23 09 23 53-0341 Thermostats Guards (23 09 23 53-0328)</b>		
23 09 23 53-0342 EA 9-3/4" x 7-1/4" x 3-3/8" Universal Thermostat Guard (Honeywell TG512A1009).....	84.98	23.10
23 09 23 53-0343 EA 7-1/2" x 6-1/2" x 2-15/16" Universal Thermostat Guard (Honeywell TG511) .....	99.93	23.10
23 09 23 53-0344 EA 5-7/8" x 5-7/8" x 2-1/2" Deep Universal Thermostat Guard (Honeywell TG510).....	94.55	23.10





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0345				<b>Johnson Controls</b> (23 09 23 53)		
23 09 23 53-0346				<b>Software</b> (23 09 23 53-0345) Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0347	EA			5 Concurrent User Application And Data Server (Johnson Controls MS-ADS05U-0).....	20,364.34	
23 09 23 53-0348	EA			10 Concurrent User External Application And Data Server (Johnson Controls MS-ADX10U-0).....	24,069.31	
23 09 23 53-0349	EA			N2 Controllers Commissioning And Download Software (Johnson Controls MW-MTOOL-0).....	1,263.58	
23 09 23 53-0350	EA			N2 Controllers Download Cable Kit (Johnson Controls AS-CBLPRO-2).....	1,874.17	
23 09 23 53-0351	EA			BACnet FEU Controllers Commissioning And Download Software (Johnson Controls MS-CCTSWO-0).....	3,259.29	
23 09 23 53-0352	EA			BACnet Controllers Download Bluetooth Converter (Johnson Controls MS-BTCVT-0).....	1,273.93	
23 09 23 53-0353	EA			New User FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-0).....	1,267.01	
23 09 23 53-0354	EA			Upgrade FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-6).....	511.79	
23 09 23 53-0355				<b>Supervisory Controllers</b> (23 09 23 53-0345)		
23 09 23 53-0356	EA			NAE With 1 RS-485, Support For 50 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE3510-2).....	9,708.15	616.08
23 09 23 53-0357	EA			NAE With 1 RS-485, Support For 100 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE4511-2).....	14,594.37	616.08
23 09 23 53-0358	EA			NAE With 2 RS-485, Support For 200 Devices (N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE5511-1).....	19,491.43	616.08
23 09 23 53-0359	EA			NCE, 33 Points, Network Control Engine, 32 N2 Device Support Supervisory Controllers (Johnson Controls MS-NCE2510-0).....	7,826.01	616.08
23 09 23 53-0360				<b>Controllers</b> (23 09 23 53-0345)		
23 09 23 53-0361	EA			10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-FEU1610-0).....	1,135.32	154.02
23 09 23 53-0362	EA			10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus, Mounting Base And Integral Display (Johnson Controls MS-FEU1620-0).....	1,461.13	308.04
23 09 23 53-0363	EA			17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Mounting Base (Johnson Controls MS-FEU2610-0).....	1,979.88	308.04
23 09 23 53-0364	EA			17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Integral Display (Johnson Controls MS-FEU2620-0).....	2,305.68	308.04
23 09 23 53-0365	EA			BACnet MS/TP 4-Point I/O Module With 4 BI, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM1710-0).....	948.40	154.02
23 09 23 53-0366	EA			BACnet MS/TP 6 Point I/O Module With 2 UI, 2 UO, 2 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM2710-0).....	1,031.48	154.02
23 09 23 53-0367	EA			BACnet MS/TP 12 Point I/O Module with 4 UI, 4 UO, 4 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM3710-0).....	1,156.10	154.02
23 09 23 53-0368	EA			17 Point I/O Module with 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-IOU4710-0).....	1,172.70	154.02
23 09 23 53-0369	EA			BACnet MS/TP Rooftop Controller For Stand-Alone And Networked Zoning Systems (Johnson Controls TEC2664Z-2).....	2,390.45	308.04
23 09 23 53-0370	EA			32-bit, Integrated VAV Controller/Actuator/DPT, 3 UI, 3 BO, and 2 CO; 24 Volt AC; Field Controller Bus And Sensor Actuator Bus (Johnson Controls MS-VMA1630-0).....	1,150.43	154.02
23 09 23 53-0371	EA			32-bit, Integrated VAV Controller/Actuator/Pressure Sensor - DPT, 3 UI and 3 BO, 2 CO, 24 Volt AC, and Sensor Actuator Bus (Johnson Controls MS-VMA1930-0).....	1,624.22	154.02
				Note: Includes 6-pin Sensor Port for use with TE-7xx Series Non-Communicating Sensors and two Ethernet Ports for BACnet/IP Communications		
23 09 23 53-0372				<b>Master FX Controllers</b> (23 09 23 53-0345)		
23 09 23 53-0373	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X00-000C).....	2,961.92	308.04
23 09 23 53-0374	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X01-000C).....	3,158.79	308.04
23 09 23 53-0375	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X02-000C).....	3,256.62	308.04
23 09 23 53-0376	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X03-000C).....	3,197.17	308.04
23 09 23 53-0377	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X04-000C).....	3,104.25	308.04
23 09 23 53-0378	EA			6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X11-000C).....	3,119.15	308.04
23 09 23 53-0379	EA			6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X14-000C).....	3,104.25	308.04
23 09 23 53-0380	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X50-000C).....	3,159.01	308.04
23 09 23 53-0381	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X51-000C).....	3,329.03	308.04
23 09 23 53-0382	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X52-000C).....	3,442.37	308.04
23 09 23 53-0383	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X53-000C).....	3,385.69	308.04
23 09 23 53-0384	EA			6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X54-000C).....	3,269.68	308.04
23 09 23 53-0385	EA			6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X60-000C).....	3,159.01	308.04
23 09 23 53-0386	EA			6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X61-000C).....	3,329.03	308.04

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0387 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X62-000C).....	3,442.37	308.04
23 09 23 53-0388 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X63-000C).....	3,385.69	308.04
23 09 23 53-0389 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X64-000C).....	3,269.68	308.04
23 09 23 53-0390 EA N2 Open Communication Card For FX16 (Johnson Controls LP-NET151-010C).....	354.83	77.01
23 09 23 53-0391 EA LON Communication Card For FX15 and FX16 (Johnson Controls LP-NET152-010C).....	494.31	77.01
23 09 23 53-0392 EA RS-232 Communication Card For FX16 (Johnson Controls LP-NET163-000C).....	393.98	77.01
23 09 23 53-0393 EA BACnet Communications Card For FX16 (Johnson Controls LP-NET164-000C).....	354.83	77.01
23 09 23 53-0394 EA Remote Medium User Interface For FX16 (Johnson Controls LP-DIS60P20-0C).....	974.94	77.01
23 09 23 53-0395 EA Facility Explorer Extension I/O Module (Johnson Controls LP-XT91D00-000C).....	903.19	77.01
23 09 23 53-0396 EA 5 UI, 4 BI, 3 AO, 6 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X01-000C).....	920.00	77.01
23 09 23 53-0397 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X11-000C).....	920.00	77.01
23 09 23 53-0398 EA 5 UI, 4 BI, 3 AO, 6 Relay DO (Manual Overrides For 2 AO And 4 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X51-000C).....	1,003.91	77.01
23 09 23 53-0399 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO (Manual Overrides For 2 AO, 2 Triac DO, And 2 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X61-000C).....	1,003.91	77.01
23 09 23 53-0400 EA 6 UI, 12 BI, 4 AO, 9 Relay DO Expansion I/O Module (Johnson Controls LP-XM14X01-000C).....	1,245.16	77.01
23 09 23 53-0401 EA 6 UI, 12 BI, 4 AO, 4 Triac DO Expansion I/O Module (Johnson Controls LP-XM14X11-000C).....	1,245.16	77.01
23 09 23 53-0402 EA 6 UI, 12 BI, 4 AO, 9 Relay DO (Manual Overrides For 3 AO And 7 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X51-000C).....	1,381.52	77.01
23 09 23 53-0403 EA 6 UI, 12 BI, 4 AO, 4 Triac DO, 5 Relay DO (Manual Overrides For 3 AO, 2 Triac DO, And 5 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X61-000C).....	1,381.52	77.01
<b>23 09 23 53-0404 VAV, Network And Special Sensors (23 09 23 53-0345)</b>		
23 09 23 53-0405 EA 3" x 4-1/2", Surface Or Box Mounted, LCD RH Display, 3% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHR7001-0).....	640.96	49.29
23 09 23 53-0406 EA 3" x 4-1/2", Surface Or Box Mounted, Addressing Switch BACnet Temperature Sensor (Johnson Controls NS-BTN7003-0).....	228.99	49.29
23 09 23 53-0407 EA 3" x 4-1/2", Surface Or Box Mounted, 3% RH Accuracy, BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHN7001-0).....	501.00	49.29
23 09 23 53-0408 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, 2% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint Addressing Switch BACnet Temperature And Humidity Sensor (Johnson Controls NS-BPB7003-0).....	738.56	49.29
23 09 23 53-0409 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, Occupancy Override, Adjustable Temperature Setpoint, BACnet Temperature Sensor (Johnson Controls NS-BTB7001-0).....	259.83	49.29
23 09 23 53-0410 EA 3" x 4-1/2", Surface Or Box Mounted CO2 Sensor, 0 To 2,000 ppm (Johnson Controls NS-BCN7004-0).....	671.58	49.29
<b>23 09 23 53-0411 Sensors - Hard Wired Type (23 09 23 53-0345)</b>		
23 09 23 53-0412 EA Duct Mount Temperature Sensor, Platinum RT, With Handi-Box (Johnson Controls TFDCR00).....	240.40	88.72
23 09 23 53-0413 EA Well Insertion Temperature Sensor, With Stainless 4-1/2" Well (Johnson Controls TIGB1C0).....	193.71	49.29
23 09 23 53-0414 EA BACnet MS/TP Networked, Single Stage Thermostat (Johnson Controls TEC2601-2).....	503.73	23.10
23 09 23 53-0415 EA BACnet MS/TP Networked Two Outputs, Dehumidification Capability And Three Speed Fan Control Thermostat (Johnson Controls TEC2616-2).....	674.23	23.10
23 09 23 53-0416 EA BACnet MS/TP Networked Thermostats With Two Outputs (Johnson Controls TEC2627VVT-2).....	504.67	23.10
23 09 23 53-0417 EA BACnet MS/TP Zone Controller For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2).....	656.36	49.29
23 09 23 53-0418 EA BACnet Zone Controller With Occupancy Sensor For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2+PIR).....	803.92	49.29
<b>23 09 23 53-0419 Melink Intelli-Hood IH3 Controls (23 09 23 53)</b>		
<b>23 09 23 53-0420 Kitchen Ventilation Controllers (23 09 23 53-0419)</b>		
23 09 23 53-0421 EA Fully Programmable Kitchen Ventilation Controller (Melink Intelli-Hood 2SYS-3001).....	11,134.27	616.08
23 09 23 53-0422 EA Graphical User Interface (Melink Intelli-Hood 2KPD-3001).....	2,011.17	127.06
23 09 23 53-0423 EA Hood Controller (Melink Intelli-Hood 2SEN-3001).....	3,445.93	512.88
<b>23 09 23 53-0424 Kitchen Ventilation Sensors (23 09 23 53-0419)</b>		
23 09 23 53-0425 EA Duct Mount Stainless Steel RTD (Melink Intelli-Hood 2SEN-3005-Q).....	612.90	88.72
23 09 23 53-0426 EA Optic Sensor System For Detection Of Cooking Effluent (Melink Intelli-Hood 2SEN-3004-28).....	5,142.66	492.86



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>	<b>23</b>
<b>Instrumentation and Control for HVAC</b>	<b>23 09</b>
<b>Direct-Digital Control System for HVAC 23 09 23</b>	

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0427				<b>Siemens Controls</b> (23 09 23 53)		
23 09 23 53-0428	EA			Concealed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1083).....	486.48	23.10
23 09 23 53-0429	EA			Exposed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1085).....	349.90	23.10
23 09 23 53-0430	EA			SPST/Manual Reset, 1" To 12" Set Point Range, Differential Static Pressure Airflow Switch (Siemens 141-0575).....	385.08	104.06
23 09 23 53-0431	EA			-0.5" To 0.5" WG, Low Differential Pressure Transmitter (Siemens 141-0591).....	559.75	104.06
23 09 23 53-0432	EA			Spring Clip Mounting Kit For Thermostat (Siemens 182-685).....	81.37	15.41
23 09 23 53-0433	EA			Two Position, Pneumatic Circuit, RL243 Switching Relay (Siemens 243-0001).....	274.02	154.02
23 09 23 53-0434	EA			3/4" Two Way, Normally Closed, 6.3 Cv, FxF, Brass Trim, Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 260-02012).....	440.23	26.64
23 09 23 53-0435	EA			1" Three Way, 10 Cv, FxF, Stainless Steel Trim. Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 266-02079).....	777.10	48.38
23 09 23 53-0436	EA			1" Three Way, 10 Cv, FxF, Brass Trim, 0 To 10 Volt DC, 4 To 20 mA Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 274-03203).....	1,543.02	48.38
23 09 23 53-0437	EA			1-1/4" Two Way, 16 Cv, FxF, Stainless Steel Trim, 0 To 10 Volt DC Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 298-03006).....	1,313.99	61.28
23 09 23 53-0438	EA			36" Rigid Probe, 4 To 20 mA, 20 To 120 Degree F Range, Duct Averaging Sensor (Siemens 535-490-36).....	378.56	88.72
23 09 23 53-0439	EA			-58 To 122 Degree F Range, Outside Air Temperature Sensor (Siemens 536-768).....	306.62	49.29
23 09 23 53-0440	EA			Unit Conditioner Controller With Secure Mode (Siemens 540-110C).....	652.88	72.70
23 09 23 53-0441	EA			9-Pin, Female To RJ-11 Cable (Siemens 540-143).....	118.54	7.70
23 09 23 53-0442	EA			Terminal Box Controller, Electronic Output, For Trane (Siemens 540-800).....	1,070.27	147.86
23 09 23 53-0443	EA			MMI Extension Cable (Siemens 545-712).....	189.03	7.70
23 09 23 53-0444	EA			Remote Pressure Transmitter (Siemens 547-003).....	1,512.80	49.29
23 09 23 53-0445	EA			Cooling Only, GDE, BACnet Actuating Terminal Equipment Controller (Siemens 550-400).....	946.14	36.96
23 09 23 53-0446	EA			BACnet Unit Conditioner Fan Coil Controller (Siemens 550-433).....	839.43	98.57
23 09 23 53-0447	EA			Door Lock And Key Assembly (Siemens 567-225).....	49.54	30.80
23 09 23 53-0448	EA			Insight Advanced Software Package (Siemens 571-010-381-USB).....	15,203.31	
				Note: Includes one user license and one sentinel key.		
23 09 23 53-0449	EA			BACnet Client Option For Insight Advanced Software Package (Siemens 571-188).....	627.30	
23 09 23 53-0450	EA			Soft Controller Option For Insight Advanced Software Package (Siemens 571-620).....	3,419.48	
23 09 23 53-0451	EA			1" Steam, Normally Open, 10 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03059).....	517.49	16.09
23 09 23 53-0452	EA			2" Steam, Normally Open, 40 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03062).....	1,083.77	27.88
23 09 23 53-0453	EA			Firefinder XLS Driver, Modular Equipment Controller With RS-485 BLN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, HOA-Ready (Siemens 986-83481C).....	9,952.23	61.61
23 09 23 53-0454	EA			SiPass Driver, Modular Equipment Controller With RS-485 ALN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, Modem With HOA (Siemens 986-83482F).....	11,720.46	61.61
23 09 23 53-0455	EA			7" x 13-7/16" x 3-3/4" Weather Shield (Siemens ASK75.3U).....	190.60	23.10
23 09 23 53-0456	EA			Two Position, 24 Volt AC/Volt DC, Standard Cabling, Dual Auxillary Switches, Electronic Damper Actuator With Spring Return (Siemens GMA126.1U).....	482.03	61.44
23 09 23 53-0457	EA			Modulating, 0 To 10 Volt DC, 24 Volt AC/Volt DC, Standard Cabling, Electronic Damper Actuator With Spring Return (Siemens GMA161.1U).....	512.69	61.44
23 09 23 53-0458	EA			License To Enable 4 TX-I/O Modules On The Island Bus And FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-36.A).....	4,389.36	
23 09 23 53-0459	EA			License To Enable FLN Support On PXC-16 or PXC-24 "F" Models (Siemens LSM-FLN).....	886.33	
23 09 23 53-0460	EA			License To Enable FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-FLN36.A).....	2,852.57	
23 09 23 53-0461	EA			License To Enable BACnet Field Panel Web Server (PXC-36) Or Web Services (PXC-16/24) (Siemens LSM-FPWEB).....	2,042.04	
23 09 23 53-0462	EA			License To Enable 4 TX-I/O Modules On The Island Bus On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-IB36.A).....	1,755.44	
23 09 23 53-0463	EA			License To Enable SNMP Agent License To Enable SNMP Agent (Siemens LSM-SNMP).....	5,189.86	
23 09 23 53-0464	EA			16-Switch HOA Upgrade Kit (Siemens PXA16-M).....	831.52	3.08
23 09 23 53-0465	EA			16-Switch HOA Upgrade Kit (Extended Temp, UL 916) With HMI Cable (Siemens PXA16-MR).....	927.29	12.32
23 09 23 53-0466	EA			8-Switch HOA Upgrade Kit (Siemens PXA8-M).....	472.90	3.08
23 09 23 53-0467	EA			18" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC18).....	503.79	86.25
23 09 23 53-0468	EA			19" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC19).....	847.99	86.25
23 09 23 53-0469	EA			34" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC34).....	1,177.98	98.57
23 09 23 53-0470	EA			Serial Cable Required For HOA Or PXM10T/S Connection To Non-Rooftop Variants Of The 16-Point And 24-Point Compact Series (Siemens PXA-HMI.CABLEP5).....	47.39	15.41
23 09 23 53-0471	EA			115 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB115V192VA).....	828.83	38.51
23 09 23 53-0472	EA			115 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB115V384VA).....	1,321.38	38.51
23 09 23 53-0473	EA			230 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB230V192VA).....	1,010.30	38.51
23 09 23 53-0474	EA			230 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB230V384VA).....	1,528.79	38.51
23 09 23 53-0475	EA			PXC Modular, BACnet/IP Or MS/TP ALN, P1 Or MS/TP FLN, PXX-485.3 Is Also Required As The Connection To The FLN Devices (Siemens PXC00-E96.A).....	4,460.01	77.01
23 09 23 53-0476	EA			PXC Modular Series For BACnet Networks, TX-I/O Module, 96 Node (Siemens PXC100-E96.A).....	5,760.26	77.01
23 09 23 53-0477	EA			Peer To Peer, TX-I/O, 96 Node, APOGEE Automation System, Programmable Controller - Modular (Siemens PXC100-PE96.A).....	6,558.54	77.01
23 09 23 53-0478	EA			16 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC16.2-E.A).....	1,824.98	77.01
23 09 23 53-0479	EA			16 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC16.2-EF.A).....	2,176.61	77.01
23 09 23 53-0480	EA			16 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC16.2-M.A).....	1,943.63	77.01
23 09 23 53-0481	EA			24 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC24.2-E.A).....	2,648.03	77.01
23 09 23 53-0482	EA			24 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-EF.A).....	2,890.82	77.01
23 09 23 53-0483	EA			24 Point, BACnet/IP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-ER.A).....	2,830.58	77.01
23 09 23 53-0484	EA			24 Point, BACnet/IP ALN, Rooftop, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-ERF.A).....	3,048.12	77.01
23 09 23 53-0485	EA			24 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC24.2-M.A).....	2,825.10	77.01
23 09 23 53-0486	EA			24 Point, MS/TP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-MR.A).....	3,046.64	77.01
23 09 23 53-0487	EA			36 Point, BACnet/IP Or MS/TP ALN Compact Programmable Controller (Siemens PXC36-E.A).....	3,918.74	77.01
23 09 23 53-0488	EA			36 Point, BACnet/IP Or MS/TP ALN, Island Bus, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC36-EF.A).....	7,791.01	77.01
23 09 23 53-0489	EA			License To Enable The Island Bus On PXC00-E96.A And PXC00-PE96.A (Siemens PXF-TXIO.A).....	1,316.84	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0490 EA Controller Mounted Operator Display Module With Point Monitor And Optional Blue Backlight (Siemens PXM10S).....	539.14	38.51
23 09 23 53-0491 EA Controller Mounted Operator Display Module (Siemens PXM10T).....	396.95	38.51
23 09 23 53-0492 EA Provides FLN Support For The PXC Modular (Siemens PXX-485.3).....	900.19	30.80
Note: Includes Three RS-485 P1 FLN Connections Or One MS/TTP FLN Connection, Maximum Of 96 Devices Supported		
23 09 23 53-0493 EA Full Feature With Display, Override And Temperature Setpoint Adjustment, Room Temperature Sensor, 10K Ohm Type III Thermistor (Siemens QAA22SS.FWSN).....	310.03	38.51
23 09 23 53-0494 EA Digital Temperature Room Unit for TEC, Sensing, Setpoint, Override, Display, No Logo (Siemens QAA2280.FWNC).....	311.85	49.29
23 09 23 53-0495 EA 4" Platinum, 1,000 Ohm, 385 Alpha Probe, Immersion Temperature Sensor (Siemens QAE2012.010).....	158.36	38.51
23 09 23 53-0496 EA 8" Platinum, 1,000 Ohm, 385 Alpha Probe, Duct Temperature Sensor (Siemens QAM2012.020).....	121.99	38.51
23 09 23 53-0497 EA 24" Flexible Averaging Probe (Siemens QAM2012.750).....	345.43	77.01
23 09 23 53-0498 EA 2 Meter Flexible Duct Temperature Sensor With Four Mounting Clamps (Siemens QAM2120.200).....	224.20	57.76
23 09 23 53-0499 EA 10 HP, 240 Volt, NEMA 2 Variable Frequency Drive (Siemens SED2-7.5/22X).....	3,700.33	496.25
23 09 23 53-0500 EA Two Sets, Address Keys 1 - 12, Accessory For TX-I/O Module (Siemens TXA1.K12).....	43.67	15.41
23 09 23 53-0501 EA Labels For HOA And TX-I/O Modules (Siemens TXA1.LLT-P100).....	0.86	
23 09 23 53-0502 EA 16 Digital Input Module (Siemens TXM1.16D).....	660.18	15.41
23 09 23 53-0503 EA 6 Digital Output Relay Points, Manual Override, Digital Output Module (Siemens TXM1.6R-M).....	995.66	15.41
23 09 23 53-0504 EA 8 Universal Points, Local Override/Identification, Digital Output Module (Siemens TXM1.8X-ML).....	1,594.36	30.80
23 09 23 53-0505 EA 1.2 A, 4A Fuse, Power Supply (Siemens TXS1.12F4).....	488.65	9.24
<b>23 09 23 53-0506 Trane Controls (23 09 23 53)</b>		
<b>23 09 23 53-0507 Software (23 09 23 53-0506)</b>		
Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0508 EA Summit + Building Management Package (Trane 40201152).....	7,597.01	
23 09 23 53-0509 EA Summit Current Version Software (Trane 40201111).....	4,330.95	
23 09 23 53-0510 EA Summit Customer Upgrade Package, Currently V10-V16 To V17 (Trane 40201113).....	1,023.71	
23 09 23 53-0511 EA Rover Service Software And Hardware, Complete Kit (Trane X1365150001).....	4,305.42	
23 09 23 53-0512 EA Tracer SC With -X1365152401 - BACnet (2 Pack) (Trane BMSC000AAA011000).....	11,733.82	
<b>23 09 23 53-0513 EMCS Central Equipment And Controllers (23 09 23 53-0506)</b>		
23 09 23 53-0514 EA Summit BTMX Operator Display Upgrade (Trane 40201224).....	7,446.19	616.08
23 09 23 53-0515 EA Summit BTMX Retrofit Kit For BMTS And BMTW BCU (Trane 49500531).....	15,754.49	616.08
23 09 23 53-0516 EA Summit BTMX Retrofit Kit For Tracer 100 (Trane 49500532).....	15,754.49	616.08
23 09 23 53-0517 EA Summit BTMX, 120 Volt, (Trane BMTX-001-A-A-B0-00).....	13,950.47	616.08
23 09 23 53-0518 EA Summit BTMX, 120 Volt, With Display (Trane BMTX-001-A-A-B0-10).....	16,047.99	616.08
23 09 23 53-0519 EA Summit CCP Upgrade ROM Kit (Trane 40201095).....	258.45	38.51
23 09 23 53-0520 EA Summit Comm5 Repeater (Trane 49500457).....	2,002.02	308.04
23 09 23 53-0521 EA AHU Controller MP580/581 E Board Only (Trane 40201157).....	3,298.90	385.05
23 09 23 53-0522 EA AHU Controller MP581 120 Volt AC With Enclosure And Display (Trane BMTM000AAC01).....	4,209.07	462.06
23 09 23 53-0523 EA AHU Controller MP581 120 Volt AC With Enclosure, No Display (Trane BMTM000AAC00).....	3,375.46	462.06
23 09 23 53-0524 EA AHU Controller MP581 Operator Door Display (Trane 40201156).....	2,905.14	462.06
23 09 23 53-0525 EA AHU Controller MP581 Portable, Rugged, With Case (Trane 49500491).....	2,902.54	462.06
23 09 23 53-0526 EA Controller MP503 I/O Module With Metal Enclosure (Trane 49500590).....	1,269.13	154.02
23 09 23 53-0527 EA Controller MP503 I/O Module With Plastic Cover (Trane 49500490).....	1,165.50	154.02
23 09 23 53-0528 EA Controller MP581 EX2 Expansion Module With Metal Enclosure (Trane 49500500).....	2,123.86	308.04
23 09 23 53-0529 EA Controller MP581 EX2 Expansion Module With Plastic Cover (Trane 49500499).....	2,037.92	308.04
23 09 23 53-0530 EA 2 Position, FCU Controller ZN511 Zone With Metal Enclosure (Trane 49500569).....	1,127.55	154.02
23 09 23 53-0531 EA 2 Position, FCU Controller ZN511 Zone With Plastic Cover (Trane 4950-0469).....	1,002.77	154.02
23 09 23 53-0532 EA 4 Position, FCU Controller ZN517 Zone With Metal Enclosure (Trane 49500596).....	1,434.58	154.02
23 09 23 53-0533 EA 4 Position, FCU Controller ZN517 Zone With Plastic Cover (Trane 49500496).....	1,310.48	154.02
23 09 23 53-0534 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500499).....	1,138.65	154.02
23 09 23 53-0535 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500496).....	1,091.01	154.02
23 09 23 53-0536 EA Modulating Tri ST FCU Controller ZN521 Zone With Metal Cover (Trane 49500570).....	1,237.32	154.02
23 09 23 53-0537 EA Modulating Tri ST FCU Controller ZN521 Zone With Plastic Cover (Trane 49500470).....	1,138.65	154.02
23 09 23 53-0538 EA DDC VAV Retrofit Kit (Trane VRTODD01).....	1,654.32	308.04
23 09 23 53-0539 EA DDC VAV Retrofit Kit With Belimo Actuator (Trane VRTODD01BLMO).....	1,777.04	308.04
<b>23 09 23 53-0540 Network, VAV And Special Sensors (23 09 23 53-0506)</b>		
23 09 23 53-0541 EA Digital Display Zone Sensor (Trane X13790464010).....	264.60	49.29
23 09 23 53-0542 EA Single Setpoint Wall Mounted Zone Temperature Sensor (Trane X13511529010).....	184.22	49.29
23 09 23 53-0543 EA Wall Mounted Zone Temperature-Only Sensor (Trane X13511528010).....	170.66	49.29
23 09 23 53-0544 EA Ceiling Mount Zone Occupancy Sensor (Trane X13790421-01).....	323.58	55.45
23 09 23 53-0545 EA Zone LCD O/C Setpoint, 3 Speed Fan (Trane 41901121).....	202.75	49.29
23 09 23 53-0546 EA Zone Sensor LCD O/C Setpoint (Trane 41901120).....	202.75	49.29
23 09 23 53-0547 EA Duct CO2 Sensor, 0 To 2,000 ppm (Trane X13790423010).....	668.22	88.72
23 09 23 53-0548 EA Room CO2 Sensor, 0 To 2,000 ppm (Trane X13790422010).....	596.76	49.29
23 09 23 53-0549 EA Transformer 120/24 40 VA (Trane X13550284010).....	163.88	49.29
23 09 23 53-0550 EA Transformer 24 Volt AC Wall Plug-In (Trane 35803005).....	159.04	49.29
23 09 23 53-0551 EA Transformer UL Listed 120 Volt AC, 40 VA (Trane 35812022).....	151.29	49.29
23 09 23 53-0552 EA Controller UC400 VAV Kit With Enclosure, And Belimo (Trane 5189454010).....	1,826.03	308.04
23 09 23 53-0553 EA Controller UC400 VAV Kit With Enclosure, No Actuator (Trane 5189456010).....	1,759.83	308.04
23 09 23 53-0554 EA Controller UC400 XM32 Module (4 Relay) (Trane X13651563010).....	1,621.68	308.04
23 09 23 53-0555 EA Controller UC400 XM70 (8UI,6UI/AO,4R,1P) (Trane X13651568010).....	2,826.37	462.06
23 09 23 53-0556 EA Controller UC400 XM30 I/O Module (4 UI/AO) (Trane X13651537010).....	1,621.68	308.04
23 09 23 53-0557 EA Controller UC210 VAV With Belimo Actuator (Trane BMUC210AAA0B00011).....	1,691.75	308.04
23 09 23 53-0558 EA Controller UC210 VAV Without Actuator (Trane BMUC210AAA0100011).....	1,697.21	308.04



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 09 23	53-0559	EA	Controller Optional Metal Enclosure, UC210 (Trane 501898) .....	647.05	306.73
	23 09 23	53-0560	EA	Controller UC400 PM014 24 Volt AC To 1.4 Amperes, 24 Volt DC (Trane X1365153801) .....	880.28	306.73
	23 09 23	53-0561	EA	Controller Tracer UC600 Controller (Trane BMUC600AAA0100011) .....	3,119.80	462.06
	23 09 23	53-0562	EA	Controller UC600 Tracer TD7 Display (Trane X13651571010) .....	3,013.27	462.06
	23 09 23	53-0563	EA	Controller UC600 TD7 Mounting Bracket (Trane X05010511010) .....	188.09	61.38
	23 09 23	53-0564	EA	Controller UC400 13" DIN Rail Enclosure, 120 Volt (Trane X13651559010) .....	634.73	61.38
	23 09 23	53-0565	EA	SC 24" DIN Rail Enclosure, 120 Volt (Trane X13651552010) .....	3,185.65	462.06
	23 09 23	53-0566	EA	BACnet Term (2 Pack) (Trane X1365152401) .....	303.53	110.43
	23 09 23	53-0567	EA	Tracer ES Add License (Trane X40250125010) .....	3,872.37	
	23 09 23	53-0568	EA	Kit - Tracer TU For Controls (Trane X4509151201) .....	5,663.91	616.08
	23 09 23	53-0569	EA	Kit - Tracer TU Complete (Trane X4509151301) .....	7,286.95	616.08
	23 09 23	53-0570	EA	Tracer TU Adapter Wired/Wireless (Trane X13651529010) .....	714.13	110.43
	23 09 23	53-0571	EA	Sensor Wireless Zone Sensor, Fahrenheit (Trane X13790492010) .....	428.46	110.43
	23 09 23	53-0572	EA	Sensor Wireless Display Sensor ( Trane X13790822010) .....	478.81	110.43
	23 09 23	53-0573	EA	Sensor Wireless Receiver, 100mW (Trane X13790854010) .....	433.30	110.43
	23 09 23	53-0574	EA	Sensor Wireless Comm Interface (WCI) Indoor, 100mW (Trane X13790901010) .....	572.60	110.43
	23 09 23	53-0575	EA	Sensor Wireless Comm Interface (WCI) Outdoor, 100mW (Trane X13790941010) .....	620.05	110.43
	23 09 23	53-0576		<b>Control Sensors, Meters, Relays, Power Supplies, Valves, Dampers And Actuators</b> <small>(23 09 23 53)</small>		
	23 09 23	53-0577		<b>Current Switches And Current Sensors</b> <small>(23 09 23 53-0576)</small>		
	23 09 23	53-0578	EA	Up To 20 Amperes, 0 To 5 Volt DC, Current Sensor (Senva C-1203) .....	173.57	49.29
	23 09 23	53-0579	EA	Up To 20 Amperes, 4-20mA, Current Sensor (Senva C-1205) .....	179.38	49.29
	23 09 23	53-0580	EA	0.5 To 135 Amperes Range, Split Core, VFD Current Switch (Senva C-2350VFD-L) .....	264.60	49.29
	23 09 23	53-0581	EA	0.15 To 100 Amperes Range, Split Core, Current Switch With NC Command Relay (Senva C-2300 And CR4-24) .....	165.82	49.29
	23 09 23	53-0582	EA	0 To 50/100/200 Amperes (Selectable), 4-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970HCA) .....	462.15	49.29
	23 09 23	53-0583	EA	0 To 20/40/80 Amperes (Selectable), 0-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970LCC) .....	303.08	49.29
	23 09 23	53-0584	EA	1 To 135 Amperes, N.O. Contact, 1 Ampere At 110 Volt, Current Switch (Veris H709) .....	236.69	49.29
	23 09 23	53-0585	EA	0 To 10/20/40 Amperes, 4-20mA Analog Output, Solid Core, Loop Powered, Current Switch (Veris H721) .....	236.69	49.29
	23 09 23	53-0586	EA	Energy Meter H8163 Series, With BACnet Output (Veris H8186-CB-BAC) .....	5,848.10	246.44
	23 09 23	53-0587	EA	100 Amperes, Modbus RTU, Power Transducer (Veris H8035-0100-2) .....	1,480.33	49.29
				Note: 3 phase networked transducer.		
	23 09 23	53-0588	EA	2,400 Amperes, Three Current Switches, Pulse Output, Phase Loss Alarm Output, Energy Meter (Veris H8163-2400-4-3) .....	2,238.20	49.29
	23 09 23	53-0589	EA	Up To 20 Amperes, 0-5 Volt DC, Current Transducer (Kele 4CTV) .....	252.28	49.29
	23 09 23	53-0590	EA	Solid Core Fixed Setpoint Digital Output Current Switch (Veris H-800) .....	403.91	130.92
	23 09 23	53-0591	EA	Split Core Fixed Setpoint Digital Output Current Switch (Veris H-900) .....	404.38	130.92
	23 09 23	53-0592	EA	Solid Core Adjustable Setpoint Digital Output Current Sensor (Veris H-708) .....	427.62	130.92
	23 09 23	53-0593	EA	Split Core Adjustable Setpoint Digital Output Current Sensor (Veris H-908) .....	433.43	130.92
	23 09 23	53-0594	EA	Solid And Split Core Adjustable Setpoint Digital Output VFD Current Switch (Veris H-904) .....	466.35	130.92
	23 09 23	53-0595	EA	Toggle Switch .....	168.75	61.61
	23 09 23	53-0596	EA	Maintained Pushbutton Switch .....	178.23	61.61
	23 09 23	53-0597	EA	Manual Time Switch .....	267.69	61.61
	23 09 23	53-0598	EA	Emergency Stop Switch .....	427.64	61.61
	23 09 23	53-0599	EA	Float Switch .....	442.75	61.61
	23 09 23	53-0600	EA	Break Glass Switch .....	1,346.16	61.61
	23 09 23	53-0601	EA	Boiler E-Stop Switch .....	889.70	61.61
	23 09 23	53-0602		<b>Relays</b> <small>(23 09 23 53-0576)</small>		
	23 09 23	53-0603	EA	DPDT, 24 Volt AC, Blade, Standard Relay (Kele RH2B-UAC24V) .....	147.42	49.29
	23 09 23	53-0604	EA	SPDT, 24 Volt AC/Volt DC, 120 Volt AC Multi-Voltage Relay Module (Kele PAM-1) .....	159.33	49.29
	23 09 23	53-0605	EA	SPDT, 24 Volt AC/Volt DC, 120 Volt AC Power Relay (Kele RIB2401B) .....	221.54	61.61
				Note: Box type.		
	23 09 23	53-0606	EA	Motor Starter Interface, 300msec Pulse (Kele PIL-2) .....	266.18	49.29
	23 09 23	53-0607	EA	DP Relay Socket, DIN Rail Mounted (Kele SH2B-05) .....	138.78	49.29
	23 09 23	53-0608	EA	SP Relay Socket, DIN Rail Mounted (Kele SH1B-05) .....	137.04	49.29
	23 09 23	53-0609	EA	SPDT, 24 Volt AC, Blade, Standard Relay (Kele RH1B-UAC24V) .....	147.42	49.29
	23 09 23	53-0610	EA	DPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH2B-ULAC24V) .....	152.86	49.29
	23 09 23	53-0611	EA	SPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH1B-ULAC24V) .....	154.35	49.29
	23 09 23	53-0612	EA	SPDT Pilot Relay, Universal (Kele RIBU1C) .....	171.35	61.61
				Note: Box type.		
	23 09 23	53-0613	EA	SPST Pilot Relay With HOA Switch (Kele RIBU1S) .....	219.97	61.61
				Note: Box type.		
	23 09 23	53-0614	EA	SPDT 3 Phase Line Voltage Monitor, .1-5 Minute Delay On Break Timer (ICM400) .....	369.90	61.61
	23 09 23	53-0615	EA	SPDT 3-Phase Line Voltage Monitor, 0-10 Minute Delay On Break Timer (ICM450) .....	367.75	61.61
	23 09 23	53-0616		<b>Transformers</b> <small>(23 09 23 53-0576)</small>		
	23 09 23	53-0617	EA	50 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X050CBA) .....	172.29	49.29
	23 09 23	53-0618	EA	75 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X075CAB) .....	185.81	49.29
	23 09 23	53-0619	EA	75 VA, 120/208/240/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X075CBA) .....	185.81	49.29
	23 09 23	53-0620	EA	100 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X100CAB) .....	198.05	49.29
	23 09 23	53-0621	EA	100 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X100CBA) .....	205.58	49.29
	23 09 23	53-0622		<b>Power Supplies</b> <small>(23 09 23 53-0576)</small>		
	23 09 23	53-0623	EA	Solid Core Current Operated Switch, Terminals, Adjustable Trip, 0.5-150A, SPST (Kele RIBXKTA) .....	248.35	49.29
	23 09 23	53-0624	EA	AC/DC Power Supply, 1.2 Amperes At 24 Volt Output (Kele DCPA-1.2) .....	285.86	49.29

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 09 Instrumentation and Control for HVAC****23 09 23 Direct-Digital Control System for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0625 EA DC Power Supply, 5 Volt DC And 24 Volt DC Output (Kele DCP-524).....	268.95	49.29
23 09 23 53-0626 EA DC Power Supply, 24 Volt DC, DIN Rail Mounted (Kele DCP-250-D).....	276.95	49.29
23 09 23 53-0627 EA DC Power Supply, 24 Volt DC, Hub Mounted (Kele DCP-250-H).....	269.83	49.29
23 09 23 53-0628 EA DC Power Supply, 24 Volt DC, Panel Mounted (Kele DCP-250-P).....	281.76	49.29
23 09 23 53-0629 EA DC Power Supply, 24 Volt AC In To Custom DC Out, At 1.5 Amperes (Kele DCP-1.5-W-C).....	216.10	49.29
<b>23 09 23 53-0630 Control Damper Actuators (23 09 23 53-0576)</b>		
23 09 23 53-0631 EA 44 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo LMB24-SR).....	614.42	126.90
23 09 23 53-0632 EA 90 IN-LB, 24 Volt AC/DC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo NMB24-SR).....	658.88	126.90
23 09 23 53-0633 EA 90 IN-LB, 2 Position, 24 To 240 Volt AC Spring Return Direct Coupled Control Damper Actuator (Belimo NFBUP).....	731.72	126.90
23 09 23 53-0634 EA 175 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo AMB24-SR).....	766.52	126.90
23 09 23 53-0635 EA 90 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Spring Return Direct Coupled Control Damper Actuator (Belimo NFB24-SR).....	787.17	126.90
23 09 23 53-0636 EA 360 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo GMB24-SR).....	868.38	126.90
<b>23 09 43 Pneumatic Control System For HVAC (23 09)</b>		
<b>23 09 43 00-0001 Pneumatic Tubing For HVAC Instrumentation and Control Devices (23 09 43)</b>		
<b>23 09 43 00-0002 Polyurethane Pneumatic Tubing (23 09 43 00-0001)</b>		
23 09 43 00-0003 LF 1/4" Outside Diameter x 1/32" Thick Wall Polyurethane Pneumatic Tubing.....	3.09	1.27
23 09 43 00-0004 LF 5/32" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing.....	3.78	1.30
23 09 43 00-0005 LF 3/8" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing.....	4.78	1.34
23 09 43 00-0006 LF 1/2" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing.....	5.92	1.38
<b>23 09 43 00-0007 Fire Resistant Polyethylene Pneumatic Tubing (23 09 43 00-0001)</b>		
23 09 43 00-0008 LF 1/4" Outside Diameter x .040" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	2.81	1.27
23 09 43 00-0009 LF 5/32" Outside Diameter x .030" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	3.00	1.30
23 09 43 00-0010 LF 3/8" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	3.37	1.34
23 09 43 00-0011 LF 1/2" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	4.06	1.38
<b>23 09 43 00-0012 Nylon Pneumatic Tubing (23 09 43 00-0001)</b>		
23 09 43 00-0013 LF 1/8" Outside Diameter x .016" Thick Wall Nylon Pneumatic Tubing.....	3.21	1.23
23 09 43 00-0014 LF 1/4" Outside Diameter x .035" Thick Wall Nylon Pneumatic Tubing.....	4.09	1.27
23 09 43 00-0015 LF 3/8" Outside Diameter x .050" Thick Wall Nylon Pneumatic Tubing.....	5.93	1.34
23 09 43 00-0016 LF 1/2" Outside Diameter x .062" Thick Wall Nylon Pneumatic Tubing.....	7.46	1.38
<b>23 09 43 00-0017 Flexible Vinyl Pneumatic Tubing (23 09 43 00-0001)</b>		
23 09 43 00-0018 LF 1/4" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	3.16	1.27
23 09 43 00-0019 LF 3/8" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	4.82	1.34
23 09 43 00-0020 LF 1/2" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	5.69	1.38
23 09 43 00-0021 LF 5/8" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	6.83	1.42
23 09 43 00-0022 LF 3/4" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	7.65	1.46
23 09 43 00-0023 LF 1" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	10.27	1.50
<b>23 09 43 00-0024 Braided Vinyl Pneumatic Tubing (23 09 43 00-0001)</b>		
23 09 43 00-0025 LF 5/8" Outside Diameter Braided Vinyl Pneumatic Tubing.....	4.16	1.42
23 09 43 00-0026 LF 3/4" Outside Diameter Braided Vinyl Pneumatic Tubing.....	4.75	1.46
23 09 43 00-0027 LF 1" Outside Diameter Braided Vinyl Pneumatic Tubing.....	5.80	1.50
<b>23 09 43 00-0028 Copper Pneumatic Tubing (23 09 43 00-0001)</b>		
23 09 43 00-0029 LF 1/4" Outside Diameter Copper Pneumatic Tubing.....	6.78	2.73
23 09 43 00-0030 LF 3/8" Outside Diameter Copper Pneumatic Tubing.....	8.21	3.14
23 09 43 00-0031 LF 1/2" Outside Diameter Copper Pneumatic Tubing.....	9.52	3.62
23 09 43 00-0032 LF 5/8" Outside Diameter Copper Pneumatic Tubing.....	11.67	4.16
23 09 43 00-0033 LF 3/4" Outside Diameter Copper Pneumatic Tubing.....	13.29	4.78
<b>23 09 43 00-0034 Brass Couplings (23 09 43 00-0001)</b>		
See CSI section 22 11 16 00-0368 for copper tubing.		
<b>23 09 43 00-0035 Straight Brass Couplings (23 09 43 00-0034)</b>		
Note: Barb x Barb		
23 09 43 00-0036 EA 1/4" x 1/4" Straight Brass Coupling.....	14.57	6.90
23 09 43 00-0037 EA 3/8" x 1/4" Straight Brass Coupling.....	14.70	6.90
23 09 43 00-0038 EA 3/8" x 3/8" Straight Brass Coupling.....	14.82	6.90
<b>23 09 43 00-0039 Elbow Brass Couplings (23 09 43 00-0034)</b>		
Note: Barb x Barb		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 43 00-0040 EA 1/4" x 1/4" Elbow Brass Coupling .....	15.28	6.90
23 09 43 00-0041 EA 3/8" x 3/8" Elbow Brass Coupling .....	15.72	6.90
<b>23 09 43 00-0042 Tee Brass Couplings (23 09 43 00-0034)</b>		
Note: Barb x Barb		
23 09 43 00-0043 EA 1/4" x 1/4" x 1/4" Tee Brass Coupling .....	23.43	10.72
23 09 43 00-0044 EA 3/8" x 3/8" x 1/4" Tee Brass Coupling .....	26.51	11.49
23 09 43 00-0045 EA 3/8" x 3/8" x 3/8" Tee Brass Coupling .....	26.05	11.49
<b>23 10 Facility Fuel Systems (23)</b>		
<b>23 11 Facility Fuel Piping (23 10)</b>		
<b>23 11 23 Facility Natural-Gas Piping (23 11)</b>		
See CSI section 23 21 13 23-0001 for threaded black steel pipe, 33 52 16 00-0000 for underground MDPE and HDPE pipe.		
23 11 23 00-0001	<b>Corrugated Stainless Steel Tubing (CSST), Flexible Gas Piping (23 11 23)</b>	
23 11 23 00-0002	<b>Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)</b>	
Note: Includes UV resistant polyethylene jacket. Excludes fittings and pipe hangers.		
23 11 23 00-0003 LF 3/8" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	7.15	2.69
23 11 23 00-0004 LF 1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	7.83	2.91
23 11 23 00-0005 LF 3/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	9.26	3.15
23 11 23 00-0006 LF 1" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	11.44	3.33
23 11 23 00-0007 LF 1-1/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	13.31	3.50
23 11 23 00-0008 LF 1-1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	19.57	3.64
23 11 23 00-0009 LF 2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	26.08	3.88
23 11 23 00-0010	<b>Fittings And Accessories For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)</b>	
23 11 23 00-0011	<b>Male Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>	
23 11 23 00-0012 EA 3/8" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	34.55	
23 11 23 00-0013 EA 3/8" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	34.55	
23 11 23 00-0014 EA 1/2" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	37.01	
23 11 23 00-0015 EA 1/2" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	37.01	
23 11 23 00-0016 EA 3/4" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	43.66	
23 11 23 00-0017 EA 1" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	58.09	
23 11 23 00-0018 EA 1" x 1", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	58.09	
23 11 23 00-0019 EA 1-1/4" x 1-1/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	94.37	
23 11 23 00-0020 EA 1-1/2" x 1-1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	167.21	
23 11 23 00-0021 EA 2" x 2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	266.49	
23 11 23 00-0022	<b>Female Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>	
23 11 23 00-0023 EA 3/8" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	33.63	
23 11 23 00-0024 EA 1/2" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	37.01	
23 11 23 00-0025 EA 1/2" x 3/8", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	37.01	
23 11 23 00-0026 EA 3/4" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	43.66	
23 11 23 00-0027 EA 3/4" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	43.66	
23 11 23 00-0028 EA 1" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	55.84	
23 11 23 00-0029 EA 1" x 1", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	55.84	
23 11 23 00-0030	<b>Reducing Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>	
23 11 23 00-0031 EA 3/4" x 1/2", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	44.21	
23 11 23 00-0032 EA 1" x 3/4", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	56.66	
23 11 23 00-0033	<b>Couplings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>	
23 11 23 00-0034 EA 3/8" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	44.52	
23 11 23 00-0035 EA 1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	49.16	
23 11 23 00-0036 EA 3/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	60.56	
23 11 23 00-0037 EA 1" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	84.46	
23 11 23 00-0038 EA 1-1/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe .....	152.65	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0039 EA 1-1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	291.61	
23 11 23 00-0040 EA 2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	479.67	
<b>23 11 23 00-0041 Tees For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11</b>		
<small>23 00-0010)</small>		
23 11 23 00-0042 EA 1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	62.01	
23 11 23 00-0043 EA 3/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	95.26	
23 11 23 00-0044 EA 1" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	146.32	
23 11 23 00-0045 EA 1-1/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	245.75	
23 11 23 00-0046 EA 1-1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	263.91	
23 11 23 00-0047 EA 2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	301.96	
<b>23 11 23 00-0048 Indoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST),</b>		
<b>Flexible Gas Pipe (23 11 23 00-0010)</b>		
23 11 23 00-0049 EA 3/8" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	40.53	
23 11 23 00-0050 EA 1/2" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	42.09	
23 11 23 00-0051 EA 3/4" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	45.63	
23 11 23 00-0052 EA 1" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	59.59	
23 11 23 00-0053 EA 1" x 1", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	60.36	
<b>23 11 23 00-0054 Outdoor Termination Fittings For Corrugated Stainless Steel Tubing</b>		
<b>(CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>		
23 11 23 00-0055 EA 3/8" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	44.11	
23 11 23 00-0056 EA 1/2" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	45.52	
23 11 23 00-0057 EA 3/4" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	52.90	
23 11 23 00-0058 EA 1" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	61.62	
23 11 23 00-0059 EA 1" x 1", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	61.62	
<b>23 11 23 00-0060 Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel</b>		
<b>Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>		
23 11 23 00-0061 EA 3/8" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	75.10	
23 11 23 00-0062 EA 1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	77.00	
23 11 23 00-0063 EA 3/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	80.40	
23 11 23 00-0064 EA 1" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	119.24	
23 11 23 00-0065 EA 1-1/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	123.56	
23 11 23 00-0066 EA 1-1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	171.56	
23 11 23 00-0067 EA 2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	209.77	
<b>23 11 23 00-0068 Outdoor Floor Flange Termination Assembly For Corrugated Stainless</b>		
<b>Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>		
23 11 23 00-0069 EA 3/8" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	78.56	
23 11 23 00-0070 EA 1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	80.40	
23 11 23 00-0071 EA 3/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	87.54	
23 11 23 00-0072 EA 1" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	146.52	
23 11 23 00-0073 EA 1-1/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	151.07	
23 11 23 00-0074 EA 1-1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	202.23	
23 11 23 00-0075 EA 2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	251.33	
<b>23 11 23 00-0076 Indoor Bracket Termination Assembly For Corrugated Stainless Steel</b>		
<b>Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)</b>		
23 11 23 00-0077 EA 1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	43.70	
23 11 23 00-0078 EA 3/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	47.02	
23 11 23 00-0079 EA 1" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	68.24	
23 11 23 00-0080 EA 1-1/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	101.46	
23 11 23 00-0081 EA 1-1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	190.25	
23 11 23 00-0082 EA 2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	298.52	





	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 11 23 00-0083</b>		<b>Stub-Outs For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>		
		Note: Includes mounting plate.		
	23 11 23 00-0084	EA 1/2" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	37.87	
	23 11 23 00-0085	EA 3/4" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	41.12	
	23 11 23 00-0086	EA 1/2" Fireplace Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	37.90	
	23 11 23 00-0087	EA 1/2" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	38.01	
	23 11 23 00-0088	EA 3/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	39.73	
	23 11 23 00-0089	EA 1" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	46.45	
	23 11 23 00-0090	EA 1-1/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	54.93	
<b>23 11 23 00-0091</b>		<b>Flush Mount Gas Valve Kits For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>		
		Note: Includes flush fitting plastic valve box and 90 degree brass shut-off valve.		
	23 11 23 00-0092	EA 1/2" x 1/2", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	105.12	28.20
	23 11 23 00-0093	EA 3/4" x 3/4", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	117.63	29.60
<b>23 11 23 00-0094</b>		<b>Shut-Off Valves For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>		
	23 11 23 00-0095	EA 3/8" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	77.63	24.67
	23 11 23 00-0096	EA 1/2" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	90.66	29.32
	23 11 23 00-0097	EA 3/4" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	110.84	35.25
	23 11 23 00-0098	EA 1" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	140.12	47.09
<b>23 11 23 00-0099</b>		<b>Manifolds For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>		
		Note: Includes mounting hardware.		
	23 11 23 00-0100	EA 1/2" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	94.88	29.32
	23 11 23 00-0101	EA 3/4" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	108.63	35.25
	23 11 23 00-0102	EA 1/2" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	100.59	29.32
	23 11 23 00-0103	EA 3/4" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	112.33	35.25
	23 11 23 00-0104	EA 2" x 1-1/2" Inlet, Four 1" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	224.64	88.11
<b>23 11 23 00-0105</b>		<b>Pressure Regulators For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe</b> <small>(23 11 23 00-0010)</small>		
	23 11 23 00-0106	EA 1/2" Port, 250 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	99.50	29.32
	23 11 23 00-0107	EA 1/2" Port, 355 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	99.50	29.32
	23 11 23 00-0108	EA 1/2" Port, 425 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	133.65	29.32
	23 11 23 00-0109	EA 3/4" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	145.39	35.25
	23 11 23 00-0110	EA 3/4" Port, 810 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	145.39	35.25
	23 11 23 00-0111	EA 1" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	168.89	47.09
	23 11 23 00-0112	EA 1-1/4" Port, 1,000 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	243.90	52.86
	23 11 23 00-0113	EA 1/2" Port, 200 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	127.61	29.32
	23 11 23 00-0114	EA 3/4" Port, 425 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	300.03	35.25
	23 11 23 00-0115	EA 1-1/4" Port, 900 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	713.25	52.86
<b>23 11 23 00-0116</b>		<b>Polymer Coated Stainless Steel, Flexible Gas Appliance Connectors (Brass Craft)</b> <small>(23 11 23)</small>		
<b>23 11 23 00-0117</b>		<b>3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0118	EA 12" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-12).....	57.61	21.15
	23 11 23 00-0119	EA 18" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-18).....	62.70	22.56
	23 11 23 00-0120	EA 24" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-24).....	67.59	22.56
	23 11 23 00-0121	EA 30" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-30).....	70.79	23.96
	23 11 23 00-0122	EA 36" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-36).....	74.76	23.96
	23 11 23 00-0123	EA 48" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-48).....	83.37	25.38
	23 11 23 00-0124	EA 60" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-60).....	91.21	25.38
	23 11 23 00-0125	EA 72" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-72).....	98.97	26.79

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0126		<b>3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b>		
23 11 23 00-0127	EA	12" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-12).....	57.61	21.15
23 11 23 00-0128	EA	18" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-18).....	62.70	22.56
23 11 23 00-0129	EA	24" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-24).....	67.59	22.56
23 11 23 00-0130	EA	30" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-30).....	70.79	23.96
23 11 23 00-0131	EA	36" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-36).....	74.76	23.96
23 11 23 00-0132	EA	48" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-48).....	83.37	25.38
23 11 23 00-0133	EA	60" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-60).....	91.21	25.38
23 11 23 00-0134	EA	72" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-72).....	98.97	26.79
23 11 23 00-0135		<b>3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b>		
23 11 23 00-0136	EA	12" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-12).....	57.61	21.15
23 11 23 00-0137	EA	18" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-18).....	62.70	22.56
23 11 23 00-0138	EA	24" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-24).....	67.59	22.56
23 11 23 00-0139	EA	30" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-30).....	70.79	23.96
23 11 23 00-0140	EA	36" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-36).....	74.76	23.96
23 11 23 00-0141	EA	48" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-48).....	83.37	25.38
23 11 23 00-0142	EA	60" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-60).....	91.21	25.38
23 11 23 00-0143	EA	72" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-72).....	98.97	26.79
23 11 23 00-0144		<b>3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b>		
23 11 23 00-0145	EA	12" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-12).....	57.61	21.15
23 11 23 00-0146	EA	18" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-18).....	62.70	22.56
23 11 23 00-0147	EA	24" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-24).....	79.23	22.56
23 11 23 00-0148	EA	30" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-30).....	70.79	23.96
23 11 23 00-0149	EA	36" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-36).....	74.76	23.96
23 11 23 00-0150	EA	48" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-48).....	83.37	25.38
23 11 23 00-0151	EA	60" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-60).....	91.21	25.38
23 11 23 00-0152	EA	72" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-72).....	98.97	26.79
23 11 23 00-0153		<b>3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)</b>		
23 11 23 00-0154	EA	12" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-12).....	62.10	21.15
23 11 23 00-0155	EA	18" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-18).....	68.28	22.56
23 11 23 00-0156	EA	24" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-24).....	67.59	22.56
23 11 23 00-0157	EA	30" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-30).....	77.90	23.96
23 11 23 00-0158	EA	36" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-36).....	74.76	23.96
23 11 23 00-0159	EA	48" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-48).....	83.37	25.38
23 11 23 00-0160	EA	60" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-60).....	91.21	25.38
23 11 23 00-0161	EA	72" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-72).....	98.97	26.79



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0162		<b>3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small>		
23 11 23 00-0163	EA	12" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-12).....	57.61	21.15
23 11 23 00-0164	EA	24" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-24).....	74.18	22.56
23 11 23 00-0165	EA	30" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-30).....	70.79	23.96
23 11 23 00-0166	EA	36" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-36).....	74.76	23.96
23 11 23 00-0167	EA	48" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-48).....	83.37	25.38
23 11 23 00-0168	EA	60" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-60).....	103.07	25.38
23 11 23 00-0169	EA	72" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-72).....	98.97	26.79
23 11 23 00-0170		<b>3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small>		
23 11 23 00-0171	EA	12" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-12).....	57.61	21.15
23 11 23 00-0172	EA	18" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-18).....	62.70	22.56
23 11 23 00-0173	EA	24" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-24).....	67.59	22.56
23 11 23 00-0174	EA	30" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-30).....	70.79	23.96
23 11 23 00-0175	EA	36" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-36).....	74.76	23.96
23 11 23 00-0176	EA	48" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-48).....	83.37	25.38
23 11 23 00-0177	EA	60" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-60).....	91.21	25.38
23 11 23 00-0178	EA	72" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-72).....	98.97	26.79
23 11 23 00-0179		<b>3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small>		
23 11 23 00-0180	EA	12" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-12).....	57.61	21.15
23 11 23 00-0181	EA	18" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-18).....	62.70	22.56
23 11 23 00-0182	EA	24" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-24).....	67.59	22.56
23 11 23 00-0183	EA	30" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-30).....	70.79	23.96
23 11 23 00-0184	EA	36" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-36).....	74.76	23.96
23 11 23 00-0185	EA	48" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-48).....	83.37	25.38
23 11 23 00-0186	EA	60" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-60).....	91.21	25.38
23 11 23 00-0187	EA	72" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-72).....	98.97	26.79
23 11 23 00-0188		<b>3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small>		
23 11 23 00-0189	EA	18" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-18).....	68.28	22.56
23 11 23 00-0190	EA	24" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-24).....	67.59	22.56
23 11 23 00-0191	EA	30" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-30).....	77.90	23.96
23 11 23 00-0192	EA	36" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-36).....	82.63	23.96
23 11 23 00-0193	EA	48" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-48).....	93.35	25.38
23 11 23 00-0194		<b>1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft)</b> <small>(23 11 23 00-0116)</small>		
23 11 23 00-0195	EA	12" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-12).....	57.61	21.15
23 11 23 00-0196	EA	18" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-18).....	62.70	22.56
23 11 23 00-0197	EA	24" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-24).....	62.94	22.56

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0198	EA	30" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-30).....	70.79	23.96
23 11 23 00-0199	EA	36" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-36).....	69.19	23.96
23 11 23 00-0200	EA	48" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-48).....	85.07	25.38
23 11 23 00-0201	EA	60" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-60).....	91.21	25.38
23 11 23 00-0202	EA	72" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-72).....	98.97	26.79
<b>23 11 23 00-0203</b>		<b>1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b>		
23 11 23 00-0204	EA	12" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-12).....	57.61	21.15
23 11 23 00-0205	EA	18" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-18).....	58.91	22.56
23 11 23 00-0206	EA	24" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-24).....	60.37	22.56
23 11 23 00-0207	EA	30" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-30).....	70.79	23.96
23 11 23 00-0208	EA	36" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-36).....	74.76	23.96
23 11 23 00-0209	EA	48" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-48).....	76.10	25.38
23 11 23 00-0210	EA	60" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-60).....	91.21	25.38
23 11 23 00-0211	EA	72" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-72).....	98.97	26.79
<b>23 11 23 00-0212</b>		<b>1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b>		
23 11 23 00-0213	EA	12" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-12).....	57.61	21.15
23 11 23 00-0214	EA	18" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-18).....	62.70	22.56
23 11 23 00-0215	EA	24" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-24).....	67.59	22.56
23 11 23 00-0216	EA	30" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-30).....	70.79	23.96
23 11 23 00-0217	EA	36" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-36).....	65.32	23.96
23 11 23 00-0218	EA	48" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-48).....	83.37	25.38
23 11 23 00-0219	EA	60" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-60).....	91.21	25.38
23 11 23 00-0220	EA	72" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-72).....	98.97	26.79
<b>23 11 23 00-0221</b>		<b>3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b>		
23 11 23 00-0222	EA	12" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-12).....	73.59	21.15
23 11 23 00-0223	EA	18" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-18).....	78.65	22.56
23 11 23 00-0224	EA	24" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-24).....	83.54	22.56
23 11 23 00-0225	EA	30" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-30).....	86.71	23.96
23 11 23 00-0226	EA	36" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-36).....	90.84	23.96
23 11 23 00-0227	EA	48" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-48).....	98.95	25.38
23 11 23 00-0228	EA	60" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-60).....	107.43	25.38
23 11 23 00-0229	EA	72" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-72).....	115.21	26.79
<b>23 11 23 00-0230</b>		<b>3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b>		
23 11 23 00-0231	EA	12" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-12).....	87.69	28.20
23 11 23 00-0232	EA	18" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-18).....	92.75	29.60
23 11 23 00-0233	EA	24" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-24).....	97.64	29.60
23 11 23 00-0234	EA	30" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-30).....	100.81	31.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0235 EA 36" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-36).....	104.93	31.01
23 11 23 00-0236 EA 48" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-48).....	113.05	32.43
23 11 23 00-0237 EA 60" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-60).....	121.53	32.43
23 11 23 00-0238 EA 72" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-72).....	129.31	33.84
<b>23 11 23 00-0239 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b>		
23 11 23 00-0240 EA 12" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....	87.69	28.20
23 11 23 00-0241 EA 18" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....	92.75	29.60
23 11 23 00-0242 EA 24" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....	97.64	29.60
23 11 23 00-0243 EA 30" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....	100.81	31.01
23 11 23 00-0244 EA 36" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....	104.93	31.01
23 11 23 00-0245 EA 48" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....	113.05	32.43
23 11 23 00-0246 EA 60" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....	121.53	32.43
23 11 23 00-0247 EA 72" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-72).....	129.31	33.84
<b>23 11 23 00-0248 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b>		
23 11 23 00-0249 EA 12" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....	100.68	28.20
23 11 23 00-0250 EA 18" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....	105.74	29.60
23 11 23 00-0251 EA 24" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....	110.63	29.60
23 11 23 00-0252 EA 30" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....	113.80	31.01
23 11 23 00-0253 EA 36" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....	117.94	31.01
23 11 23 00-0254 EA 48" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....	126.04	32.43
23 11 23 00-0255 EA 60" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....	134.53	32.43
<b>23 11 23 00-0256 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b>		
23 11 23 00-0257 EA 12" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-12).....	100.68	28.20
23 11 23 00-0258 EA 18" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-18).....	105.74	29.60
23 11 23 00-0259 EA 24" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-24).....	110.63	29.60
23 11 23 00-0260 EA 36" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-36).....	117.94	31.01
23 11 23 00-0261 EA 48" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-48).....	126.04	32.43
23 11 23 00-0262 EA 60" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-60).....	134.53	32.43
<b>23 11 23 00-0263 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small></b>		
23 11 23 00-0264 EA 12" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-12).....	100.68	28.20
23 11 23 00-0265 EA 18" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-18).....	105.74	29.60
23 11 23 00-0266 EA 24" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-24).....	110.63	29.60
23 11 23 00-0267 EA 30" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-30).....	113.80	31.01
23 11 23 00-0268 EA 36" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-36).....	117.94	31.01
23 11 23 00-0269 EA 48" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-48).....	126.04	32.43
23 11 23 00-0270 EA 60" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-60).....	134.53	32.43
23 11 23 00-0271 EA 72" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-72).....	142.30	33.84

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

23 11 23 00-0272		1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <sup>(23 11 23 00-0116)</sup>		
23 11 23 00-0273	EA	12" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-12).....	84.27	28.20
23 11 23 00-0274	EA	18" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-18).....	89.35	29.60
23 11 23 00-0275	EA	24" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-24).....	94.26	29.60
23 11 23 00-0276	EA	30" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-30).....	97.40	31.01
23 11 23 00-0277	EA	36" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-36).....	101.52	31.01
23 11 23 00-0278	EA	48" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-48).....	109.62	32.43
23 11 23 00-0279	EA	72" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-72).....	125.85	33.84
23 11 23 00-0280		1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <sup>(23 11 23 00-0116)</sup>		
23 11 23 00-0281	EA	18" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-18).....	98.59	29.60
23 11 23 00-0282	EA	24" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-24).....	104.52	29.60
23 11 23 00-0283		Quarter-Turn, Gas Ball Valve <sup>(23 11 23)</sup>		
23 11 23 00-0284	EA	3/8" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top™ T-3000 102-102).....	54.13	15.01
23 11 23 00-0285	EA	1/2" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-103).....	54.93	15.31
23 11 23 00-0286	EA	3/4" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-104).....	78.10	16.85
23 11 23 00-0287	EA	3/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-112).....	53.74	15.01
23 11 23 00-0288	EA	1/2" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-113).....	56.80	15.31
23 11 23 00-0289	EA	1/2" Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-118).....	62.30	15.31
23 11 23 00-0290	EA	5/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-121).....	68.50	16.08
23 11 23 00-0291	EA	5/8" (7/8" -14) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-114).....	71.30	16.08
23 11 23 00-0292	EA	5/8" (15/16" -16) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-115).....	71.30	16.08
23 11 23 00-0293	EA	3/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-312).....	55.83	15.01
23 11 23 00-0294	EA	1/2" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-313).....	58.89	15.31
23 11 23 00-0295	EA	5/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-314).....	72.77	16.08
23 11 23 00-0296	EA	1/2" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-413).....	59.17	15.31
23 11 23 00-0297	EA	3/4" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-414).....	79.68	16.85
23 11 23 00-0298	EA	3/8" (9/16" -24) Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-119).....	55.72	15.01
23 11 23 00-0299	EA	3/8" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-612).....	53.46	15.01
23 11 23 00-0300	EA	1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-613).....	54.92	15.31
23 11 23 00-0301	EA	3/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-614).....	75.08	16.85
23 11 23 00-0302	EA	1" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-615).....	100.20	19.14
23 11 23 00-0303	EA	1-1/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-616).....	140.79	19.90
23 11 23 00-0304	EA	1-1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-617).....	166.49	22.97
23 11 23 00-0305	EA	2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-618).....	204.25	27.56
23 11 23 00-0306	EA	1/2" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-713).....	56.13	15.31
23 11 23 00-0307	EA	3/4" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-714).....	74.71	16.85
23 11 23 00-0308		Gas Stops <sup>(23 11 23)</sup>		
23 11 23 00-0309		Brass/Bronze Gas Stops <sup>(23 11 23 00-0308)</sup>		
		Note: Flat or square head		
23 11 23 00-0310	EA	3/8" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	65.02	15.31
23 11 23 00-0311	EA	1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	65.59	15.31
23 11 23 00-0312	EA	3/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	86.44	16.85
23 11 23 00-0313	EA	1" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	118.86	19.14
23 11 23 00-0314	EA	1-1/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	157.07	20.37
23 11 23 00-0315	EA	1-1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	195.67	23.58
23 11 23 00-0316	EA	2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	266.40	27.87
23 11 23 00-0317		Iron Body Gas Stops <sup>(23 11 23 00-0308)</sup>		
23 11 23 00-0318	EA	1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	84.86	15.31
23 11 23 00-0319	EA	3/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	105.41	16.85
23 11 23 00-0320	EA	1" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	130.30	19.14
23 11 23 00-0321	EA	1-1/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	168.18	20.37
23 11 23 00-0322	EA	1-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	209.62	23.58
23 11 23 00-0323	EA	2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	269.57	27.87
23 11 23 00-0324	EA	2-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	506.07	37.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0325 EA 3" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	671.94	43.70
<b>23 11 23 00-0326 Bronze Body Solenoid Valves, 150 PSI Gas (23 11 23)</b>		
23 11 23 00-0327 EA 1/4" Solenoid Valve, Bronze, 150 PSI, Gas.....	200.45	15.31
23 11 23 00-0328 EA 1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....	233.17	15.31
23 11 23 00-0329 EA 3/4" Solenoid Valve, Bronze, 150 PSI, Gas.....	297.67	16.85
23 11 23 00-0330 EA 1" Solenoid Valve, Bronze, 150 PSI, Gas.....	442.57	19.14
23 11 23 00-0331 EA 1-1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....	786.04	23.58
23 11 23 00-0332 EA 2" Solenoid Valve, Bronze, 150 PSI, Gas.....	1,325.24	27.87
23 11 23 00-0333 EA 2-1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....	1,644.97	37.64
23 11 23 00-0334 EA 3" Solenoid Valve, Bronze, 150 PSI, Gas.....	2,465.02	43.70
<b>23 11 26 Facility Liquefied-Petroleum Gas Piping (23 11)</b>		
<b>23 11 26 00-0001 Fiberglass Reinforced Plastic Pipe And Fittings (23 11 26)</b>		
<b>23 11 26 00-0002 Fiberglass Reinforced Plastic Pipe (23 11 26 00-0001)</b>		
Note: For double containment fiberglass pipe, select both outer containment pipe size and inner containment pipe size (add modifier for use as inner pipe).		
23 11 26 00-0003 LF 2" Fiberglass Reinforced Plastic Pipe.....	24.88	10.15
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-11.37	
23 11 26 00-0004 LF 3" Fiberglass Reinforced Plastic Pipe.....	29.81	12.13
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-13.64	
23 11 26 00-0005 LF 4" Fiberglass Reinforced Plastic Pipe.....	40.15	17.91
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-20.09	
23 11 26 00-0006 LF 5" Fiberglass Reinforced Plastic Pipe.....	46.83	20.58
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-22.63	
23 11 26 00-0007 LF 6" Fiberglass Reinforced Plastic Pipe.....	54.47	22.98
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-25.89	
23 11 26 00-0008 LF 8" Fiberglass Reinforced Plastic Pipe.....	69.53	25.11
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-28.21	
23 11 26 00-0009 LF 10" Fiberglass Reinforced Plastic Pipe.....	91.42	29.85
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-33.63	
23 11 26 00-0010 LF 12" Fiberglass Reinforced Plastic Pipe.....	251.64	37.60
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-42.31	
<b>23 11 26 00-0011 Fiberglass Reinforced Plastic Fittings (23 11 26 00-0001)</b>		
<b>23 11 26 00-0012 Fiberglass Reinforced Plastic Flanged 90 Degree Elbows (23 11 26 00-0011)</b>		
23 11 26 00-0013 EA 2" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	199.91	101.08
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-113.69	
23 11 26 00-0014 EA 3" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	236.67	121.38
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-136.43	
23 11 26 00-0015 EA 4" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	281.76	140.98
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-158.50	
23 11 26 00-0016 EA 5" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	320.87	148.52
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-163.84	
23 11 26 00-0017 EA 6" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	384.21	166.63
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-187.37	
23 11 26 00-0018 EA 8" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	542.20	208.23
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-234.21	
23 11 26 00-0019 EA 10" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	692.17	250.83
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-282.06	
23 11 26 00-0020 EA 12" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow.....	1,858.86	311.04
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-349.76	
<b>23 11 26 00-0021 Fiberglass Reinforced Plastic Flanged 45 Degree Elbows (23 11 26 00-0011)</b>		
23 11 26 00-0022 EA 2" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	200.28	101.08
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-113.69	
23 11 26 00-0023 EA 3" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	236.78	121.38
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-136.43	
23 11 26 00-0024 EA 4" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	282.14	141.12
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-158.61	
23 11 26 00-0025 EA 5" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	349.16	167.63
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-185.03	
23 11 26 00-0026 EA 6" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	384.08	166.63
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-187.37	
23 11 26 00-0027 EA 8" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	542.20	208.23
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-234.21	
23 11 26 00-0028 EA 10" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	1,407.06	250.83
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-282.06	
23 11 26 00-0029 EA 12" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow.....	1,858.86	311.04
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-349.76	
<b>23 11 26 00-0030 Fiberglass Reinforced Plastic Flanged Tees (23 11 26 00-0011)</b>		
23 11 26 00-0031 EA 2" Fiberglass Reinforced Plastic Flanged Tee.....	441.71	151.69
For Use As Inner Pipe In Double Wall Pipe System, Deduct	-170.54	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0032 EA 3" Fiberglass Reinforced Plastic Flanged Tee .....	546.56	182.71
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-205.40	
23 11 26 00-0033 EA 4" Fiberglass Reinforced Plastic Flanged Tee .....	621.94	211.61
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-237.93	
23 11 26 00-0034 EA 5" Fiberglass Reinforced Plastic Flanged Tee .....	789.89	251.37
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-277.67	
23 11 26 00-0035 EA 6" Fiberglass Reinforced Plastic Flanged Tee .....	910.61	250.83
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-282.06	
23 11 26 00-0036 EA 8" Fiberglass Reinforced Plastic Flanged Tee .....	1,146.19	311.04
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-349.76	
23 11 26 00-0037 EA 10" Fiberglass Reinforced Plastic Flanged Tee .....	1,853.27	376.25
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-423.10	
23 11 26 00-0038 EA 12" Fiberglass Reinforced Plastic Flanged Tee .....	2,484.41	457.44
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-514.36	
<b>23 11 26 00-0039 Fiberglass Reinforced Plastic Flanged Wyes (23 11 26 00-0011)</b>		
23 11 26 00-0040 EA 2" Fiberglass Reinforced Plastic Flanged Wye .....	586.77	151.69
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-170.54	
23 11 26 00-0041 EA 3" Fiberglass Reinforced Plastic Flanged Wye .....	753.85	182.43
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-205.14	
23 11 26 00-0042 EA 4" Fiberglass Reinforced Plastic Flanged Wye .....	885.65	211.61
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-237.91	
23 11 26 00-0043 EA 5" Fiberglass Reinforced Plastic Flanged Wye .....	1,014.44	251.37
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-277.67	
23 11 26 00-0044 EA 6" Fiberglass Reinforced Plastic Flanged Wye .....	1,096.04	250.83
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-282.06	
23 11 26 00-0045 EA 8" Fiberglass Reinforced Plastic Flanged Wye .....	1,439.43	311.04
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-349.76	
23 11 26 00-0046 EA 10" Fiberglass Reinforced Plastic Flanged Wye .....	2,223.13	376.25
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-423.10	
23 11 26 00-0047 EA 12" Fiberglass Reinforced Plastic Flanged Wye .....	2,887.59	457.44
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-514.36	
<b>23 11 26 00-0048 Fiberglass Reinforced Plastic Flanged Concentric Reducers (23 11 26 00-0011)</b>		
23 11 26 00-0049 EA 2" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....	333.19	101.08
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-113.69	
23 11 26 00-0050 EA 3" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....	432.28	121.38
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-136.43	
23 11 26 00-0051 EA 4" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....	473.67	141.12
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-158.61	
23 11 26 00-0052 EA 5" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....	549.71	167.63
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-185.03	
23 11 26 00-0053 EA 6" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....	593.57	166.63
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-187.37	
23 11 26 00-0054 EA 8" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....	791.42	208.23
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-234.21	
23 11 26 00-0055 EA 10" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....	1,013.89	250.83
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-282.06	
23 11 26 00-0056 EA 12" Fiberglass Reinforced Plastic Flanged Concentric Reducer .....	1,390.35	311.04
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-349.76	
<b>23 11 26 00-0057 Fiberglass Reinforced Plastic Bell x Male Or Female Adapters (23 11 26 00-0011)</b>		
23 11 26 00-0058 EA 2" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....	268.36	101.08
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-113.69	
23 11 26 00-0059 EA 3" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....	308.47	121.38
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-136.43	
23 11 26 00-0060 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....	349.98	141.12
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-158.61	
23 11 26 00-0061 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....	428.55	167.63
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-185.03	
23 11 26 00-0062 EA 6" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....	475.01	166.63
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-187.37	
23 11 26 00-0063 EA 8" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....	464.75	208.23
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-234.21	
23 11 26 00-0064 EA 10" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....	595.17	250.83
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-282.06	
23 11 26 00-0065 EA 12" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter .....	942.74	311.04
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-349.76	
<b>23 11 26 00-0066 Fiberglass Reinforced Plastic Nipples (23 11 26 00-0011)</b>		
23 11 26 00-0067 EA 2" x 6" Fiberglass Reinforced Plastic Nipple .....	50.43	12.13
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-13.64	
23 11 26 00-0068 EA 2" x 12" Fiberglass Reinforced Plastic Nipple .....	100.76	24.24
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-27.22	
23 11 26 00-0069 EA 3" x 8" Fiberglass Reinforced Plastic Nipple .....	168.80	18.61
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-20.93	
23 11 26 00-0070 EA 3" x 12" Fiberglass Reinforced Plastic Nipple .....	192.62	23.36
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-26.27	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0071 EA 4" x 8" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	180.19 -18.74	16.61
23 11 26 00-0072 EA 4" x 12" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	216.56 -28.10	24.98
23 11 26 00-0073 EA 6" x 12" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	269.30 -30.92	27.98
23 11 26 00-0074 EA 6" x 12" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	322.01 -33.76	29.98
23 11 26 00-0075 EA 8" x 18" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	168.51 -39.35	34.98
23 11 26 00-0076 EA 8" x 24" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	229.63 -56.17	49.97
23 11 26 00-0077 EA 10" x 18" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	285.07 -39.99	35.60
23 11 26 00-0078 EA 10" x 24" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	427.90 -59.90	53.22
23 11 26 00-0079 EA 12" x 18" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	333.30 -41.24	36.73
23 11 26 00-0080 EA 12" x 24" Fiberglass Reinforced Plastic Nipple ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	435.55 -61.88	54.96
<b>23 11 26 00-0081 Fiberglass Reinforced Plastic Sleeve Couplings (23 11 26 00-0011)</b>		
23 11 26 00-0082 EA 2" Fiberglass Reinforced Plastic Sleeve Coupling ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	181.20 -113.69	101.08
23 11 26 00-0083 EA 3" Fiberglass Reinforced Plastic Sleeve Coupling ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	217.97 -136.43	121.38
23 11 26 00-0084 EA 4" Fiberglass Reinforced Plastic Sleeve Coupling ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	252.07 -158.61	141.12
23 11 26 00-0085 EA 5" Fiberglass Reinforced Plastic Sleeve Coupling ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	302.83 -185.03	167.63
23 11 26 00-0086 EA 6" Fiberglass Reinforced Plastic Sleeve Coupling ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	321.47 -187.37	166.63
23 11 26 00-0087 EA 8" Fiberglass Reinforced Plastic Sleeve Coupling ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	417.35 -234.21	208.23
23 11 26 00-0088 EA 10" Fiberglass Reinforced Plastic Sleeve Coupling ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	536.07 -282.06	250.83
23 11 26 00-0089 EA 12" Fiberglass Reinforced Plastic Sleeve Coupling ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	654.99 -349.76	311.04
<b>23 11 26 00-0090 Fiberglass Reinforced Plastic Flanges (23 11 26 00-0011)</b>		
23 11 26 00-0091 EA 2" Fiberglass Reinforced Plastic Flange ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	184.90 -113.69	101.08
23 11 26 00-0092 EA 3" Fiberglass Reinforced Plastic Flange ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	222.86 -136.43	121.38
23 11 26 00-0093 EA 4" Fiberglass Reinforced Plastic Flange ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	242.44 -140.28	124.79
23 11 26 00-0094 EA 5" Fiberglass Reinforced Plastic Flange ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	292.87 -163.95	148.52
23 11 26 00-0095 EA 6" Fiberglass Reinforced Plastic Flange ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	342.96 -187.37	166.63
23 11 26 00-0096 EA 8" Fiberglass Reinforced Plastic Flange ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	425.50 -224.21	199.36
23 11 26 00-0097 EA 10" Fiberglass Reinforced Plastic Flange ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	569.50 -282.06	250.83
23 11 26 00-0098 EA 12" Fiberglass Reinforced Plastic Flange ..... <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	788.72 -349.76	311.04
<b>23 11 26 00-0099 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing And Fittings (23 11 26)</b>		
<b>23 11 26 00-0100 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing (23 11 26 00-0099)</b>		
23 11 26 00-0101 LF 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....	158.01	43.56
23 11 26 00-0102 LF 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....	188.32	51.60
23 11 26 00-0103 LF 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....	241.73	76.13
23 11 26 00-0104 LF 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....	338.54	98.69
23 11 26 00-0105 LF 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....	465.95	107.42
23 11 26 00-0106 LF 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....	635.88	127.41
23 11 26 00-0107 LF 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing .....	812.52	160.76
<b>23 11 26 00-0108 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Fittings (23 11 26 00-0099)</b>		
<b>23 11 26 00-0109 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbows (23 11 26 00-0108)</b>		
23 11 26 00-0110 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	2,775.63	539.11

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0111 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	3,199.91	647.10
23 11 26 00-0112 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	3,995.18	751.99
23 11 26 00-0113 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	6,803.69	888.52
23 11 26 00-0114 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	11,027.28	1,110.86
23 11 26 00-0115 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	14,874.01	1,336.46
23 11 26 00-0116 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow.....	19,864.82	1,654.99
<b>23 11 26 00-0117 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbows (23 11 26 00-0108)</b>		
23 11 26 00-0118 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	2,779.91	539.11
23 11 26 00-0119 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	3,192.40	647.10
23 11 26 00-0120 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	3,989.28	751.99
23 11 26 00-0121 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	6,769.02	888.52
23 11 26 00-0122 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	10,977.07	1,110.86
23 11 26 00-0123 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	14,805.92	1,337.09
23 11 26 00-0124 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	19,777.25	1,658.75
<b>23 11 26 00-0125 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tees (23 11 26 00-0108)</b>		
23 11 26 00-0126 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	3,873.49	808.66
23 11 26 00-0127 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	4,847.25	974.60
23 11 26 00-0128 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	5,475.36	1,128.55
23 11 26 00-0129 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	8,642.63	1,337.71
23 11 26 00-0130 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	10,928.25	1,658.75
23 11 26 00-0131 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	19,011.60	2,004.25
23 11 26 00-0132 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	25,975.94	2,430.09
<b>23 11 26 00-0133 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wyes (23 11 26 00-0108)</b>		
23 11 26 00-0134 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	5,674.73	808.66
23 11 26 00-0135 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	7,423.50	973.47
23 11 26 00-0136 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	8,750.19	1,128.55
23 11 26 00-0137 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	10,944.95	1,337.71
23 11 26 00-0138 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	14,569.25	1,658.75
23 11 26 00-0139 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	23,604.08	2,004.25
23 11 26 00-0140 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	30,982.00	2,430.09
<b>23 11 26 00-0141 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducers (23 11 26 00-0108)</b>		
23 11 26 00-0142 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	3,063.06	539.11
23 11 26 00-0143 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	4,078.93	647.10
23 11 26 00-0144 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	4,383.04	751.99
23 11 26 00-0145 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	5,600.22	888.52
23 11 26 00-0146 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	7,614.78	1,110.86
23 11 26 00-0147 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	9,923.16	1,336.46
23 11 26 00-0148 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	13,954.28	1,654.99
<b>23 11 26 00-0149 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapters (23 11 26 00-0108)</b>		
23 11 26 00-0150 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	2,258.07	539.11
23 11 26 00-0151 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	2,541.58	647.10
23 11 26 00-0152 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	2,847.17	751.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0153 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	4,128.10	888.52
23 11 26 00-0154 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	3,558.68	1,110.86
23 11 26 00-0155 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	4,724.04	1,336.46
23 11 26 00-0156 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	8,396.42	1,654.99
<b>23 11 26 00-0157 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipples (23 11 26 00-0108)</b>		
23 11 26 00-0158 EA 2" x 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	497.29	64.71
23 11 26 00-0159 EA 2" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	994.08	129.14
23 11 26 00-0160 EA 3" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,898.23	99.25
23 11 26 00-0161 EA 3" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	2,143.61	124.54
23 11 26 00-0162 EA 4" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	2,060.49	88.82
23 11 26 00-0163 EA 4" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	2,423.57	133.29
23 11 26 00-0164 EA 6" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	3,679.46	160.14
23 11 26 00-0165 EA 8" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,720.81	186.63
23 11 26 00-0166 EA 8" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	2,320.76	266.45
23 11 26 00-0167 EA 10" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	3,161.89	189.62
23 11 26 00-0168 EA 10" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	4,747.25	284.05
23 11 26 00-0169 EA 12" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	3,748.92	195.62
23 11 26 00-0170 EA 12" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	4,823.72	293.43
<b>23 11 26 00-0171 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanges (23 11 26 00-0108)</b>		
23 11 26 00-0172 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,685.37	665.29
23 11 26 00-0173 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	2,488.46	888.52
23 11 26 00-0174 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	3,165.90	1,063.53
23 11 26 00-0175 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	4,405.33	1,336.46
23 11 26 00-0176 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	6,484.03	1,654.99
<b>23 12 Facility Fuel Pumps (23 10)</b>		
<b>23 12 13 Facility Fuel-Oil Pumps (23 12)</b>		
<b>23 12 13 00-0001 Cast Iron Internal Gear Rotary Pump (23 12 13)</b>		
Note: Heavy duty type with relief valve, 1150 RPM drip-proof motor, common base plate. For viscosity to 20 centipoise; diesel oil, and light oil.		
<b>23 12 13 00-0002 10 GPM 1" Discharge (23 12 13 00-0001)</b>		
23 12 13 00-0003 EA 10 GPM Cast Iron Rotary Pump, 20 PSI 1/2 HP With 1" Discharge.....	1,765.92	409.02
23 12 13 00-0004 EA 10 GPM Cast Iron Rotary Pump, 40 PSI 3/4 HP With 1" Discharge.....	1,865.89	495.05
23 12 13 00-0005 EA 10 GPM Cast Iron Rotary Pump, 60 PSI 1 HP With 1" Discharge.....	2,052.34	588.13
<b>23 12 13 00-0006 25 GPM 1-1/4" Discharge (23 12 13 00-0001)</b>		
23 12 13 00-0007 EA 25 GPM Cast Iron Rotary Pump, 20 PSI 1 HP With 1-1/4" Discharge.....	1,937.59	409.02
23 12 13 00-0008 EA 25 GPM Cast Iron Rotary Pump, 40 PSI 1.5 HP With 1-1/4" Discharge.....	2,045.82	495.05
23 12 13 00-0009 EA 25 GPM Cast Iron Rotary Pump, 60 PSI 2 HP With 1-1/4" Discharge.....	2,153.80	588.13
<b>23 12 13 00-0010 Pump, Fuel Oil, 2 Stage 3450 RPM 100 PSI (23 12 13)</b>		
23 12 13 00-0011 EA 1/4 HP Pump Fuel Oil/Diesel.....	1,341.90	229.18
23 12 13 00-0012 EA 1/3 HP Pump Fuel Oil/Diesel.....	1,572.27	256.69
23 12 13 00-0013 EA 1/2 HP Pump Fuel Oil/Diesel.....	1,722.05	287.72
23 12 13 00-0014 EA 3/4 HP Pump Fuel Oil/Diesel.....	1,883.13	324.39
23 12 13 00-0015 EA 1 HP Pump Fuel Oil/Diesel.....	2,608.37	361.06
23 12 13 00-0016 EA 1-1/2 HP Pump Fuel Oil/Diesel.....	3,174.28	404.08
23 12 13 00-0017 EA 2 HP Pump Fuel Oil/Diesel.....	3,519.84	452.74
23 12 13 00-0018 EA 3 HP Pump Fuel Oil/Diesel.....	4,272.29	506.33
23 12 13 00-0019 EA 5 HP Pump Fuel Oil/Diesel.....	5,023.66	567.68
23 12 13 00-0020 EA 7.5 HP Pump Fuel Oil/Diesel.....	5,625.18	636.79
23 12 13 00-0021 EA 10 HP Pump Fuel Oil/Diesel.....	6,306.68	713.80
<b>23 12 23 Facility Natural-Gas Pumps (23 12)</b>		
<b>23 12 23 00-0001 Natural Gas Booster Pump (23 12 23)</b>		
23 12 23 00-0002 EA Natural Gas Booster Pump, 3/4" Outlet Size.....	1,304.76	211.56
23 12 23 00-0003 EA Natural Gas Booster Pump, 1" Outlet Size.....	1,542.04	236.24
23 12 23 00-0004 EA Natural Gas Booster Pump, 1-1/4" Outlet Size.....	1,722.13	246.82
23 12 23 00-0005 EA Natural Gas Booster Pump, 1-1/2" Outlet Size.....	1,945.60	257.39
23 12 23 00-0006 EA Natural Gas Booster Pump, 2" Outlet Size.....	2,190.97	264.45

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**23 13 Facility Fuel-Storage Tanks** (23 10)**23 13 13 Facility Underground Fuel-Oil, Storage Tanks** (23 13)**23 13 13 13 Double-Wall Steel, Underground Fuel-Oil, Storage Tanks** (23 13 13)**23 13 13 13-0001 Coated Underground Double Wall Storage Tanks** (23 13 13 13)

Note: Includes setting in place with hold down bars and manway and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes excavation, pad, plastic lining, pumps and piping.

23 13 13 13-0002	EA	250 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	16,256.70	875.32
23 13 13 13-0003	EA	550 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	17,551.41	875.32
23 13 13 13-0004	EA	1,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	25,332.65	1,094.08
23 13 13 13-0005	EA	2,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	34,805.30	2,136.99
23 13 13 13-0006	EA	3,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	55,304.33	2,747.40
23 13 13 13-0007	EA	4,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	61,627.38	3,155.48
23 13 13 13-0008	EA	5,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	66,660.54	4,172.21
23 13 13 13-0009	EA	6,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	68,961.55	4,479.59
23 13 13 13-0010	EA	8,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	84,135.01	5,292.07
23 13 13 13-0011	EA	10,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	97,435.74	6,104.01
23 13 13 13-0012	EA	12,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	124,449.91	6,712.52
23 13 13 13-0013	EA	14,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	147,566.38	8,150.08
23 13 13 13-0014	EA	15,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	152,466.49	8,649.34
23 13 13 13-0015	EA	20,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	187,620.87	13,719.66
23 13 13 13-0016	EA	25,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	230,741.10	17,791.04
23 13 13 13-0017	EA	30,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	271,759.82	20,356.18
23 13 13 13-0018	EA	40,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	348,768.86	21,882.90
23 13 13 13-0019	EA	48,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars	471,229.70	22,444.05

**23 13 13 23 Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks** (23 13 13)**23 13 13 23-0001 Underground Fiberglass Storage Tanks** (23 13 13 23)**23 13 13 23-0002 Single Wall Fiberglass Underground Storage Tanks** (23 13 13 23-0001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-0003	EA	550 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	4,304.23	875.32
23 13 13 23-0004	EA	1,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	5,405.23	1,094.08
23 13 13 23-0005	EA	2,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	7,026.39	1,353.69
23 13 13 23-0006	EA	2,500 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	8,004.37	1,648.85
23 13 13 23-0007	EA	3,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	8,975.29	1,933.83
23 13 13 23-0008	EA	4,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	10,959.29	2,544.53
23 13 13 23-0009	EA	5,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	13,245.72	3,867.68
23 13 13 23-0010	EA	6,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	15,089.74	4,885.49
23 13 13 23-0011	EA	8,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	18,016.69	5,496.17
23 13 13 23-0012	EA	10,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	20,363.09	6,513.98
23 13 13 23-0013	EA	12,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	26,072.14	7,735.35
23 13 13 23-0014	EA	15,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	32,119.80	9,669.19
23 13 13 23-0015	EA	20,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	40,674.42	12,926.18
23 13 13 23-0016	EA	25,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	60,090.48	16,081.39
23 13 13 23-0017	EA	30,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	73,491.91	19,338.37
23 13 13 23-0018	EA	40,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	105,122.59	27,989.75
23 13 13 23-0019	EA	50,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps	148,721.50	35,623.32

**23 13 13 23-0020 Double Wall Fiberglass Underground Storage Tanks** (23 13 13 23-0001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-0021	EA	550 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	8,143.45	875.32
23 13 13 23-0022	EA	1,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	10,720.10	1,094.08
23 13 13 23-0023	EA	2,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	12,855.40	1,323.15
23 13 13 23-0024	EA	3,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	16,762.63	1,933.97
23 13 13 23-0025	EA	4,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	18,908.86	2,544.53
23 13 13 23-0026	EA	5,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	21,984.84	3,867.68
23 13 13 23-0027	EA	6,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	24,607.60	4,885.49
23 13 13 23-0028	EA	8,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	30,130.33	5,496.17
23 13 13 23-0029	EA	10,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	32,476.73	6,513.98
23 13 13 23-0030	EA	12,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	39,267.36	7,735.35
23 13 13 23-0031	EA	15,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	53,805.38	9,669.19
23 13 13 23-0032	EA	20,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	66,848.53	12,926.18
23 13 13 23-0033	EA	30,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps	103,127.06	19,338.37

**23 13 13 23-0034 Underground Storage Tank Pump Enclosures** (23 13 13 23)

23 13 13 23-0035	EA	Secondary Containment Collar	3,936.38	
23 13 13 23-0036	EA	Turbine Enclosure With Lid 4' Long x 42" Diameter	3,936.38	
23 13 13 23-0037	EA	Fitting Kit For Turbine Enclosure	787.28	
23 13 13 23-0038	EA	Grommet Kits For Plumbing And Electrical	1,574.55	
23 13 13 23-0039	EA	Turbine Electrical Coupling Kit	1,968.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**23 13 23 Facility Aboveground Fuel-Oil, Storage Tanks (23 13)**  
**23 13 23 13 Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)**

23 13 23 13-0001	Vertical Rectangular Double Wall Steel Fuel Day Tank (23 13 23 13)		
Note: Includes day tank with standard equipment, pump, pump control, level control, backup level control, level alarms, alarm outputs.			
23 13 23 13-0002	EA 10 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,254.38	183.82
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0003	EA 15 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,345.12	193.01
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0004	EA 25 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,458.96	206.79
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0005	EA 50 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,668.80	220.58
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0006	EA 60 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,853.84	229.77
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0007	EA 75 Gallon Double Wall Steel Day Tank (Tramont TRX).....	2,187.56	275.72
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0008	EA 100 Gallon Double Wall Steel Day Tank (Tramont TRX).....	2,922.45	321.67
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0009	EA 150 Gallon Double Wall Steel Day Tank (Tramont TRX).....	3,681.34	367.63
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0010	EA 200 Gallon Double Wall Steel Day Tank (Tramont TRX).....	4,697.38	413.58
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0011	EA 275 Gallon Double Wall Steel Day Tank (Tramont TRX).....	5,235.12	459.53
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0012	EA 300 Gallon Double Wall Steel Day Tank (Tramont TRX).....	6,002.03	551.44
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0013	EA 350 Gallon Double Wall Steel Day Tank (Tramont TRX).....	6,734.65	643.35
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0014	EA 400 Gallon Double Wall Steel Day Tank (Tramont TRX).....	7,487.83	735.25
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0015	EA 450 Gallon Double Wall Steel Day Tank (Tramont TRX).....	8,294.72	781.20
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0016	EA 500 Gallon Double Wall Steel Day Tank (Tramont TRX).....	9,106.75	827.17
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0017	EA 550 Gallon Double Wall Steel Day Tank (Tramont TRX).....	10,026.79	873.12
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0018	EA 600 Gallon Double Wall Steel Day Tank (Tramont TRX).....	10,833.68	919.07
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0019	EA 700 Gallon Double Wall Steel Day Tank (Tramont TRX).....	12,100.06	1,102.88
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0020	EA 800 Gallon Double Wall Steel Day Tank (Tramont TRX).....	13,053.83	1,194.79
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0021	EA 900 Gallon Double Wall Steel Day Tank (Tramont TRX).....	14,356.20	1,378.60
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0022	EA 1,000 Gallon Double Wall Steel Day Tank (Tramont TRX).....	15,663.72	1,562.42
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0023	EA 10 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	1,504.67	183.82
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0024	EA 15 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	1,597.12	193.01
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0025	EA 25 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	1,710.96	206.79
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0026	EA 50 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	1,919.09	220.58
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0027	EA 60 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	2,104.13	229.77
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0028	EA 75 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	2,439.57	275.72
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0029	EA 100 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	3,198.46	321.67
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0030	EA 150 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	3,957.35	367.63
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0031	EA 200 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	4,973.39	413.58
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0032	EA 275 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	5,511.13	459.53
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0033	EA 300 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	6,278.03	551.44
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0034	EA 350 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	7,010.65	643.35
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0035	EA 400 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	7,763.84	735.25
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0036	EA 450 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	8,570.73	781.20
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0037	EA 500 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	9,382.76	827.17
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0038	EA 550 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	10,304.51	873.12
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		
23 13 23 13-0039	EA 600 Gallon Double Wall Steel Day Tank (Tramont UTRX).....	11,111.40	919.07
	Note: Includes rust-inhibitor coated interior and gray painted exterior.		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0040 EA 700 Gallon Double Wall Steel Day Tank (Tramont UTRX) ..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	12,376.06	1,102.88
23 13 23 13-0041 EA 800 Gallon Double Wall Steel Day Tank (Tramont UTRX) ..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	13,329.83	1,194.79
23 13 23 13-0042 EA 900 Gallon Double Wall Steel Day Tank (Tramont UTRX) ..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	14,632.20	1,378.60
23 13 23 13-0043 EA 1,000 Gallon Double Wall Steel Day Tank (Tramont UTRX) ..... Note: Includes rust-inhibitor coated interior and gray painted exterior.	15,939.73	1,562.42
23 13 23 13-0044 EA 10 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,452.69	183.82
23 13 23 13-0045 EA 15 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,534.86	193.01
23 13 23 13-0046 EA 25 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,610.98	206.79
23 13 23 13-0047 EA 50 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,887.68	220.58
23 13 23 13-0048 EA 60 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,993.86	229.77
23 13 23 13-0049 EA 75 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,317.30	275.72
23 13 23 13-0050 EA 100 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,988.76	321.67
23 13 23 13-0051 EA 150 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,018.51	367.63
23 13 23 13-0052 EA 200 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,643.68	413.58
23 13 23 13-0053 EA 275 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,343.74	459.53
23 13 23 13-0054 EA 300 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,312.93	551.44
23 13 23 13-0055 EA 350 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,911.84	643.35
23 13 23 13-0056 EA 400 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,713.02	735.25
23 13 23 13-0057 EA 450 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,483.91	781.20
23 13 23 13-0058 EA 500 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,494.80	827.17
23 13 23 13-0059 EA 550 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,926.26	873.12
23 13 23 13-0060 EA 600 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,314.85	919.07
23 13 23 13-0061 EA 700 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	14,107.53	1,102.88
23 13 23 13-0062 EA 800 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	15,810.45	1,194.79
23 13 23 13-0063 EA 900 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	17,705.98	1,378.60
23 13 23 13-0064 EA 1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	19,630.66	1,562.42
23 13 23 13-0065 EA 10 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,584.14	183.82
23 13 23 13-0066 EA 15 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,666.31	193.01
23 13 23 13-0067 EA 25 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,742.43	206.79
23 13 23 13-0068 EA 50 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,019.13	220.58
23 13 23 13-0069 EA 60 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,125.31	229.77
23 13 23 13-0070 EA 75 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,448.75	275.72
23 13 23 13-0071 EA 100 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,120.21	321.67
23 13 23 13-0072 EA 150 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,149.96	367.63
23 13 23 13-0073 EA 200 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,850.57	413.58
23 13 23 13-0074 EA 275 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,080.89	459.53
23 13 23 13-0075 EA 300 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,050.09	551.44
23 13 23 13-0076 EA 350 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,650.71	643.35
23 13 23 13-0077 EA 400 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,450.18	735.25
23 13 23 13-0078 EA 450 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,222.78	781.20
23 13 23 13-0079 EA 500 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,231.96	827.17
23 13 23 13-0080 EA 550 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,663.41	873.12
23 13 23 13-0081 EA 600 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE) ..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	13,052.01	919.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0082 EA 700 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE)..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	14,844.69	1,102.88
23 13 23 13-0083 EA 800 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE)..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	16,549.33	1,194.79
23 13 23 13-0084 EA 900 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE)..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	18,443.14	1,378.60
23 13 23 13-0085 EA 1,000 Gallon Double Wall Steel Day Tank With Pump (Tramont UTRE)..... Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	20,367.81	1,562.42
23 13 23 13-0086 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,216.72	183.82
23 13 23 13-0087 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,307.46	193.01
23 13 23 13-0088 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,385.30	206.79
23 13 23 13-0089 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,670.57	220.58
23 13 23 13-0090 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,824.75	229.77
23 13 23 13-0091 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,120.77	275.72
23 13 23 13-0092 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,817.94	321.67
23 13 23 13-0093 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,895.69	367.63
23 13 23 13-0094 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,543.15	413.58
23 13 23 13-0095 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,308.35	459.53
23 13 23 13-0096 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,325.54	551.44
23 13 23 13-0097 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,871.30	643.35
23 13 23 13-0098 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,775.35	735.25
23 13 23 13-0099 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,703.95	781.20
23 13 23 13-0100 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,637.70	827.17
23 13 23 13-0101 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,118.87	873.12
23 13 23 13-0102 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,481.75	919.07
23 13 23 13-0103 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,351.57	1,102.88
23 13 23 13-0104 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	18,135.07	1,194.79
23 13 23 13-0105 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	20,111.17	1,378.60
23 13 23 13-0106 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont TRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	22,112.99	1,562.42
23 13 23 13-0107 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,348.18	183.82
23 13 23 13-0108 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,438.92	193.01
23 13 23 13-0109 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,516.75	206.79
23 13 23 13-0110 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,802.02	220.58
23 13 23 13-0111 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS)..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,956.20	229.77

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0112 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,248.79	275.72
23 13 23 13-0113 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,949.39	321.67
23 13 23 13-0114 EA 150 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,027.14	367.63
23 13 23 13-0115 EA 200 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,674.60	413.58
23 13 23 13-0116 EA 275 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,045.50	459.53
23 13 23 13-0117 EA 300 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,062.70	551.44
23 13 23 13-0118 EA 350 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,779.89	643.35
23 13 23 13-0119 EA 400 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,512.50	735.25
23 13 23 13-0120 EA 450 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,441.11	781.20
23 13 23 13-0121 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,374.86	827.17
23 13 23 13-0122 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,856.03	873.12
23 13 23 13-0123 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	15,220.63	919.07
23 13 23 13-0124 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	17,088.73	1,102.88
23 13 23 13-0125 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	18,872.23	1,194.79
23 13 23 13-0126 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	20,848.33	1,378.60
23 13 23 13-0127 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) ..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	22,850.15	1,562.42
23 13 23 13-0128 EA 150% Containment Double Wall Open Top Basin For 10 Gallon Tank.....	1,243.20	183.82
23 13 23 13-0129 EA 150% Containment Double Wall Open Top Basin For 15 Gallon Tank.....	1,344.50	193.01
23 13 23 13-0130 EA 150% Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,458.00	206.79
23 13 23 13-0131 EA 150% Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,659.75	220.58
23 13 23 13-0132 EA 150% Containment Double Wall Open Top Basin For 60 Gallon Tank.....	2,179.69	229.77
23 13 23 13-0133 EA 150% Containment Double Wall Open Top Basin For 75 Gallon Tank.....	2,256.27	275.72
23 13 23 13-0134 EA 150% Containment Double Wall Open Top Basin For 100 Gallon Tank.....	2,826.18	321.67
23 13 23 13-0135 EA 150% Containment Double Wall Open Top Basin For 150 Gallon Tank.....	3,484.33	367.63
23 13 23 13-0136 EA 150% Containment Double Wall Open Top Basin For 200 Gallon Tank.....	4,547.55	413.58
23 13 23 13-0137 EA 150% Containment Double Wall Open Top Basin For 275 Gallon Tank.....	5,687.70	459.53
23 13 23 13-0138 EA 150% Containment Double Wall Open Top Basin For 300 Gallon Tank.....	6,827.51	551.44
23 13 23 13-0139 EA 150% Containment Double Wall Open Top Basin For 350 Gallon Tank.....	7,358.59	643.35
23 13 23 13-0140 EA 150% Containment Double Wall Open Top Basin For 400 Gallon Tank.....	7,891.93	735.25
23 13 23 13-0141 EA 150% Containment Double Wall Open Top Basin For 450 Gallon Tank.....	8,654.18	781.20
23 13 23 13-0142 EA 150% Containment Double Wall Open Top Basin For 500 Gallon Tank.....	9,418.69	827.17
23 13 23 13-0143 EA 150% Containment Double Wall Open Top Basin For 550 Gallon Tank.....	10,085.92	873.12
23 13 23 13-0144 EA 150% Containment Double Wall Open Top Basin For 600 Gallon Tank.....	10,759.90	919.07
23 13 23 13-0145 EA 150% Containment Double Wall Open Top Basin For 700 Gallon Tank.....	12,202.23	1,102.88
23 13 23 13-0146 EA 150% Containment Double Wall Open Top Basin For 800 Gallon Tank.....	13,532.12	1,194.79
23 13 23 13-0147 EA 150% Containment Double Wall Open Top Basin For 900 Gallon Tank.....	15,051.39	1,378.60
23 13 23 13-0148 EA 150% Containment Double Wall Open Top Basin For 1,000 Gallon Tank.....	16,520.88	1,562.42
23 13 23 13-0149 EA 200% Containment Double Wall Open Top Basin For 10 Gallon Tank.....	1,310.56	193.01
23 13 23 13-0150 EA 200% Containment Double Wall Open Top Basin For 15 Gallon Tank.....	1,424.31	206.79
23 13 23 13-0151 EA 200% Containment Double Wall Open Top Basin For 25 Gallon Tank.....	1,542.83	220.58
23 13 23 13-0152 EA 200% Containment Double Wall Open Top Basin For 50 Gallon Tank.....	1,746.85	229.77
23 13 23 13-0153 EA 200% Containment Double Wall Open Top Basin For 60 Gallon Tank.....	2,356.09	275.72
23 13 23 13-0154 EA 200% Containment Double Wall Open Top Basin For 75 Gallon Tank.....	2,432.68	321.67
23 13 23 13-0155 EA 200% Containment Double Wall Open Top Basin For 100 Gallon Tank.....	3,029.99	367.63
23 13 23 13-0156 EA 200% Containment Double Wall Open Top Basin For 150 Gallon Tank.....	3,720.46	413.58
23 13 23 13-0157 EA 200% Containment Double Wall Open Top Basin For 200 Gallon Tank.....	4,838.49	459.53
23 13 23 13-0158 EA 200% Containment Double Wall Open Top Basin For 275 Gallon Tank.....	6,037.73	505.49
23 13 23 13-0159 EA 200% Containment Double Wall Open Top Basin For 300 Gallon Tank.....	7,232.34	597.40
23 13 23 13-0160 EA 200% Containment Double Wall Open Top Basin For 350 Gallon Tank.....	7,784.42	689.30
23 13 23 13-0161 EA 200% Containment Double Wall Open Top Basin For 400 Gallon Tank.....	8,338.88	781.20
23 13 23 13-0162 EA 200% Containment Double Wall Open Top Basin For 450 Gallon Tank.....	9,139.22	827.17
23 13 23 13-0163 EA 200% Containment Double Wall Open Top Basin For 500 Gallon Tank.....	9,941.95	873.12





Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows list various containment tank specifications and their costs.

23 13 23 16 Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)

23 13 23 16-0001

Single Wall Aboveground Storage Tanks (23 13 23 16)

Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each; all others 6 each. Excludes pumps, piping, pad, foundation excavation and backfill.

Table listing single wall storage tank specifications (e.g., 300 Gallon, Steel Storage Tank) and their associated costs.

23 13 23 16-0015

Double Wall Aboveground Storage Tanks (23 13 23 16)

Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each; all others 6 each. Excludes pumps, piping, pad, foundation excavation and backfill.

Table listing double wall storage tank specifications (e.g., 300 Gallon, Steel Storage Tank, Double Wall) and their associated costs.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 10 Facility Fuel Systems**

**23 13 Facility Fuel-Storage Tanks**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 16-0021 EA 3,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	30,625.03	3,218.04
23 13 23 16-0022 EA 5,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	44,650.88	3,964.30
23 13 23 16-0023 EA 8,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	61,534.56	4,558.97
23 13 23 16-0024 EA 10,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	73,437.89	4,973.43
23 13 23 16-0025 EA 12,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	85,311.69	5,470.66
23 13 23 16-0026 EA 15,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	94,435.86	6,078.63
23 13 23 16-0027 EA 20,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	117,912.16	7,815.28
23 13 23 16-0028 EA 30,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings.....	161,399.99	9,117.80
<b>23 13 23 16-0029 Horizontal Rectangular Double Wall Aboveground Fuel Day Tanks (23 13 23 16)</b>		
Note: Includes solenoid valve. Excludes piping and concrete pad.		
23 13 23 16-0030 EA 550 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....	15,645.69	1,508.50
23 13 23 16-0031 EA 750 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....	16,408.76	1,594.30
23 13 23 16-0032 EA 1,000 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....	18,473.67	1,932.48
23 13 23 16-0033 EA 1,500 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....	22,129.30	2,415.60
23 13 23 16-0034 EA 2,000 Gallon, Double Wall, Aboveground Horizontal Fuel Storage Tank.....	28,236.73	3,126.17
Note: Includes 2" solenoid valve.		
<b>23 13 23 19 Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)</b>		
<b>23 13 23 19-0001 Secondary Containment For Above Ground Tanks (23 13 23 19)</b>		
23 13 23 19-0002 EA Steel Dike For 550 Gallon Tank, Uncoated.....	6,120.25	
23 13 23 19-0003 EA Steel Dike For 1,000 Gallon Tank, Uncoated.....	7,395.96	
23 13 23 19-0004 EA Steel Dike For 2,000 Gallon Tank, Uncoated.....	16,133.13	
23 13 23 19-0005 EA Steel Dike For 3,000 Gallon Tank, Uncoated.....	17,667.02	
23 13 23 19-0006 EA Steel Dike For 5,000 Gallon Tank, Uncoated.....	25,096.02	
23 13 23 19-0007 EA Steel Dike For 6,000 Gallon Tank, Uncoated.....	28,115.96	
23 13 23 19-0008 EA Steel Dike For 8,000 Gallon Tank, Uncoated.....	37,111.32	
23 13 23 19-0009 EA Steel Dike For 10,000 Gallon Tank, Uncoated.....	43,554.86	
23 13 23 19-0010 EA Steel Dike For 12,000 Gallon Tank, Uncoated.....	49,481.80	
23 13 23 19-0011 EA Steel Dike For 15,000 Gallon Tank, Uncoated.....	60,253.36	
23 13 23 19-0012 EA Steel Dike For 20,000 Gallon Tank, Uncoated.....	77,129.92	
<b>23 13 23 26 Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)</b>		
<b>23 13 23 26-0001 Aboveground Concrete Vaulted Storage Tanks (23 13 23 26)</b>		
Note: Includes setting in place with stand, NPT openings for an emergency vent, regular vent, gauge, fill with an internal 5 gallon minimum overflow containment, supply and return and leak detection. All tanks that are 2000 gallon and larger shall have a ladder for access. Excludes excavation, pad, pumps and piping.		
23 13 23 26-0002 EA 500 Gallon Concrete Vaulted Storage Tank.....	33,975.42	1,892.99
For Low Profile Tanks, Add	12,533.62	
23 13 23 26-0003 EA 1,000 Gallon Concrete Vaulted Storage Tank.....	42,787.03	2,136.99
For Low Profile Tanks, Add	15,922.07	
23 13 23 26-0004 EA 2,000 Gallon Concrete Vaulted Storage Tank.....	75,897.23	2,544.53
For Low Profile Tanks, Add	28,938.69	
23 13 23 26-0005 EA 4,000 Gallon Concrete Vaulted Storage Tank.....	120,273.39	5,596.73
23 13 23 26-0006 EA 5,000 Gallon Concrete Vaulted Storage Tank.....	137,400.95	6,112.56
23 13 23 26-0007 EA 6,000 Gallon Concrete Vaulted Storage Tank.....	154,637.01	6,601.11
23 13 23 26-0008 EA 8,000 Gallon Concrete Vaulted Storage Tank.....	171,844.94	7,163.07
23 13 23 26-0009 EA 10,000 Gallon Concrete Vaulted Storage Tank.....	189,043.99	7,624.75
<b>23 13 33 Facility Fuel-Oil, Storage Tank Accessories (23 13)</b>		
<b>23 13 33 00-0001 EPA Requirements (23 13 33)</b>		
23 13 33 00-0002 EA Fill Pipe Spill Containment Manhole (5 Gallon).....	2,341.36	
23 13 33 00-0003 EA Over-Fill Prevention Valve.....	1,420.20	
23 13 33 00-0004 EA Tank Manway With Cover, Fiberglass.....	4,630.53	
23 13 33 00-0005 EA Tank Manway With Cover, Steel.....	6,256.98	
23 13 33 00-0006 EA Vent Fill Alarm (Whistle Vent).....	246.17	
23 13 33 00-0007 EA Reservoir Sensor, Liquid Level.....	756.75	
23 13 33 00-0008 EA Manhole Spill Containment.....	2,802.55	356.57
23 13 33 00-0009 EA Fill Adapter, 4".....	533.51	237.75
23 13 33 00-0010 EA Fill Cap, 4".....	370.94	89.14
23 13 33 00-0011 EA 2" Vent Cap.....	216.66	59.47
23 13 33 00-0012 EA 4" x 2" Extractor Fitting.....	851.77	89.14
23 13 33 00-0013 EA Float Vent Valve.....	496.81	178.28
23 13 33 00-0014 EA Vapor Hose Adapter.....	780.31	118.81
23 13 33 00-0015 EA Dust Cap.....	322.32	64.89
23 13 33 00-0016 EA 1" Double Poppet Foot Valve.....	517.14	101.83
23 13 33 00-0017 EA 10' Wood Gage Stick.....	44.83	
23 13 33 00-0018 EA 1-1/4" Tank Filled Breather, NPT.....	307.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 33 00-0019 EA 1-1/2" Tank Filled Breather, Bayonet.....	425.83	
23 13 33 00-0020 EA 2" Cast Iron Combination Fill Cap And Vent.....	104.79	
23 13 33 00-0021 EA 3" Cast Iron Combination Fill Cap And Vent.....	140.18	
23 13 33 00-0022 EA 4" Cast Iron Combination Fill Cap And Vent.....	217.91	
23 13 33 00-0023 EA Pressure And Vacuum Control Vent.....	1,996.62	
23 13 33 00-0024 EA 1/4 HP Fuel/Diesel Pump Set.....	1,985.69	
23 13 33 00-0025 EA 1/3 HP Fuel/Diesel Pump Set.....	2,344.86	
23 13 33 00-0026 EA 1/2 HP Fuel/Diesel Pump Set.....	2,557.98	
23 13 33 00-0027 EA 3/4 HP Fuel/Diesel Pump Set.....	2,805.72	
23 13 33 00-0028 EA 1 HP Fuel/Diesel Pump Set.....	3,985.62	
23 13 33 00-0029 EA 1-1/2 HP Fuel/Diesel Pump Set.....	4,910.89	
23 13 33 00-0030 EA 2 HP Fuel/Diesel Pump Set.....	5,438.51	
23 13 33 00-0031 EA 3 HP Fuel/Diesel Pump Set.....	6,670.03	
23 13 33 00-0032 EA 5 HP Fuel/Diesel Pump Set.....	7,887.00	
23 13 33 00-0033 EA 7.5 HP Fuel/Diesel Pump Set.....	8,828.85	
23 13 33 00-0034 EA 10 HP Fuel/Diesel Pump Set.....	10,191.18	
<b>23 13 33 00-0035 Tank Bulkhead Fittings (23 13 33)</b>		
<b>23 13 33 00-0036 Tank Bulkhead Fittings (23 13 33 00-0035)</b>		
<b>23 13 33 00-0037 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)</b>		
23 13 33 00-0038 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	79.83	
23 13 33 00-0039 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	89.40	
23 13 33 00-0040 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	98.35	
23 13 33 00-0041 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	120.92	
23 13 33 00-0042 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	123.98	
23 13 33 00-0043 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	167.78	
23 13 33 00-0044 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	276.23	
23 13 33 00-0045 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	499.23	
<b>23 13 33 00-0046 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)</b>		
23 13 33 00-0047 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	95.22	
23 13 33 00-0048 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	104.73	
23 13 33 00-0049 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	114.30	
23 13 33 00-0050 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	145.71	
23 13 33 00-0051 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	155.27	
23 13 33 00-0052 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	196.12	
23 13 33 00-0053 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	314.01	
23 13 33 00-0054 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread.....	552.91	
<b>23 13 33 00-0055 Chlorinated Polyvinyl Chloride (CPVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)</b>		
23 13 33 00-0056 EA 1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	98.72	
23 13 33 00-0057 EA 3/4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	114.80	
23 13 33 00-0058 EA 1" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	130.25	
23 13 33 00-0059 EA 1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	170.59	
23 13 33 00-0060 EA 2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	227.97	
23 13 33 00-0061 EA 3" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	365.38	
23 13 33 00-0062 EA 4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread.....	584.81	
<b>23 13 33 00-0063 Polypropylene Tank Bulkhead Fitting Thread x Threaded Connection (23 13 33 00-0036)</b>		
23 13 33 00-0064 EA 1/2" Polypropylene Bulkhead Fitting, Thread x Thread.....	118.24	
23 13 33 00-0065 EA 3/4" Polypropylene Bulkhead Fitting, Thread x Thread.....	140.77	
23 13 33 00-0066 EA 1" Polypropylene Bulkhead Fitting, Thread x Thread.....	175.67	
23 13 33 00-0067 EA 1-1/4" Polypropylene Bulkhead Fitting, Thread x Thread.....	216.53	
23 13 33 00-0068 EA 1-1/2" Polypropylene Bulkhead Fitting, Thread x Thread.....	219.58	
23 13 33 00-0069 EA 2" Polypropylene Bulkhead Fitting, Thread x Thread.....	321.81	
23 13 33 00-0070 EA 3" Polypropylene Bulkhead Fitting, Thread x Thread.....	591.98	
23 13 33 00-0071 EA 4" Polypropylene Bulkhead Fitting, Thread x Thread.....	1,074.67	
<b>23 13 33 00-0072 Polyethylene Tank Bulkhead Fittings Thread x Threaded Connection (23 13 33 00-0036)</b>		
23 13 33 00-0073 EA 3/4" Polyethylene Bulkhead Fitting, Thread x Thread.....	100.60	
23 13 33 00-0074 EA 1" Polyethylene Bulkhead Fitting, Thread x Thread.....	133.00	
23 13 33 00-0075 EA 1-1/4" Polyethylene Bulkhead Fitting, Thread x Thread.....	136.07	
23 13 33 00-0076 EA 1-1/2" Polyethylene Bulkhead Fitting, Thread x Thread.....	139.12	
23 13 33 00-0077 EA 2" Polyethylene Bulkhead Fitting, Thread x Thread.....	200.81	
23 13 33 00-0078 EA 3" Polyethylene Bulkhead Fitting, Thread x Thread.....	257.52	
<b>23 13 33 00-0079 TFE Teflon Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)</b>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 10 Facility Fuel Systems**

**23 13 Facility Fuel-Storage Tanks**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 33 00-0080	EA		1/8" TFE Teflon Bulkhead Fitting, Thread x Thread.....	491.68	
23 13 33 00-0081	EA		1/4" TFE Teflon Bulkhead Fitting, Thread x Thread.....	562.19	
23 13 33 00-0082	EA		3/8" TFE Teflon Bulkhead Fitting, Thread x Thread.....	693.47	
23 13 33 00-0083	EA		1/2" TFE Teflon Bulkhead Fitting, Thread x Thread.....	801.04	
23 13 33 00-0084	EA		3/4" TFE Teflon Bulkhead Fitting, Thread x Thread.....	923.67	
23 13 33 00-0085	EA		1" TFE Teflon Bulkhead Fitting, Thread x Thread.....	1,166.22	
23 13 33 00-0086	EA		1-1/2" TFE Teflon Bulkhead Fitting, Thread x Thread.....	1,517.18	
23 13 33 00-0087	EA		2" TFE Teflon Bulkhead Fitting, Thread x Thread.....	1,676.90	

**23 13 33 00-0088 Self-Aligning Bulkhead Fittings** (23 13 33 00-0035)

23 13 33 00-0089	EA		3/4" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	499.12	
23 13 33 00-0090	EA		1" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	498.24	
23 13 33 00-0091	EA		1-1/2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	732.27	
23 13 33 00-0092	EA		2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	746.42	
23 13 33 00-0093	EA		3" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting.....	1,013.31	

**23 20 HVAC Piping and Pumps** (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

**23 21 Hydronic Piping and Pumps** (23 20)

**23 21 13 Hydronic Piping** (23 21)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which exclude the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

**23 21 13 23 Aboveground Hydronic Piping** (23 21 13)

**23 21 13 23-0001 Threaded Black Steel Pipe** (23 21 13 23)

**23 21 13 23-0002 Threaded Black Steel Pipe Assemblies** (23 21 13 23-0001)

Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. Includes cutting and threading to length where necessary.

23 21 13 23-0003	LF		1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	27.25	5.64
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	6.70	
			<i>For Work In Restricted Working Space, Add</i>	5.83	
23 21 13 23-0004	LF		3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	30.01	6.06
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	7.56	
			<i>For Work In Restricted Working Space, Add</i>	6.09	
23 21 13 23-0005	LF		1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	33.56	6.63
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	8.65	
			<i>For Work In Restricted Working Space, Add</i>	6.43	
23 21 13 23-0006	LF		1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	40.39	6.91
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	10.84	
			<i>For Work In Restricted Working Space, Add</i>	6.93	
23 21 13 23-0007	LF		1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	43.30	8.18
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	11.84	
			<i>For Work In Restricted Working Space, Add</i>	7.03	
23 21 13 23-0008	LF		2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	52.23	9.86
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	14.58	
			<i>For Work In Restricted Working Space, Add</i>	7.92	
23 21 13 23-0009	LF		2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	77.07	11.70
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	22.51	
			<i>For Work In Restricted Working Space, Add</i>	9.82	
23 21 13 23-0010	LF		3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	98.11	15.65
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	28.90	
			<i>For Work In Restricted Working Space, Add</i>	12.03	
23 21 13 23-0011	LF		4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly.....	137.08	16.61
			Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	42.95	
			<i>For Work In Restricted Working Space, Add</i>	12.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0012 LF 5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... 221.57		21.23
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	72.14	
For Work In Restricted Working Space, Add	14.30	
23 21 13 23-0013 LF 6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... 266.47		25.11
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	87.29	
For Work In Restricted Working Space, Add	16.20	
<b>23 21 13 23-0014 Threaded Black Steel Pipe And Fittings</b> <small>(23 21 13 23-0001)</small>		
Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
<b>23 21 13 23-0015 Threaded And Coupled, Black Steel Piping</b> <small>(23 21 13 23-0014)</small>		
Note: ASTM A-53. Includes coupling. Includes cutting and threading to length where necessary.		
23 21 13 23-0016 LF 3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 10.25		3.52
For Schedule 80 Pipe, Add	2.12	
For Work In Restricted Working Space, Add	2.14	
23 21 13 23-0017 LF 1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 13.78		5.64
For Schedule 80 Pipe, Add	3.21	
For Work In Restricted Working Space, Add	2.57	
23 21 13 23-0018 LF 3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 15.88		6.06
For Schedule 80 Pipe, Add	3.96	
For Work In Restricted Working Space, Add	2.73	
23 21 13 23-0019 LF 1" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 18.89		6.63
For Schedule 80 Pipe, Add	5.05	
For Work In Restricted Working Space, Add	2.96	
23 21 13 23-0020 LF 1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe ..... 22.54		6.91
For Schedule 80 Pipe, Add	6.49	
For Work In Restricted Working Space, Add	3.14	
23 21 13 23-0021 LF 1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe ..... 26.72		8.18
For Schedule 80 Pipe, Add	7.73	
For Work In Restricted Working Space, Add	3.68	
23 21 13 23-0022 LF 2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 33.78		9.86
For Schedule 80 Pipe, Add	10.01	
For Work In Restricted Working Space, Add	4.45	
23 21 13 23-0023 LF 2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe ..... 47.54		11.70
For Schedule 80 Pipe, Add	15.23	
For Work In Restricted Working Space, Add	5.29	
23 21 13 23-0024 LF 3" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 62.69		15.65
For Schedule 80 Pipe, Add	19.99	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0025 LF 4" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 83.55		16.61
For Schedule 80 Pipe, Add	28.85	
For Work In Restricted Working Space, Add	7.49	
23 21 13 23-0026 LF 5" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 109.62		21.23
For Schedule 80 Pipe, Add	38.20	
For Work In Restricted Working Space, Add	9.54	
23 21 13 23-0027 LF 6" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 140.25		25.11
For Schedule 80 Pipe, Add	49.95	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0028 LF 8" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 197.68		30.35
For Schedule 80 Pipe, Add	73.06	
For Work In Restricted Working Space, Add	13.63	
23 21 13 23-0029 LF 10" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 271.00		36.98
For Schedule 80 Pipe, Add	102.52	
For Work In Restricted Working Space, Add	16.65	
23 21 13 23-0030 LF 12" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 362.60		48.59
For Schedule 80 Pipe, Add	137.67	
For Work In Restricted Working Space, Add	21.86	
<b>23 21 13 23-0031 Black Malleable Iron 90 Degree Elbows</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0032 EA 3/8", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 40.87		20.87
For 300 LB Rating, Add	24.78	
For Standard Weight Cast Iron Fittings, Add	0.15	
For Work In Restricted Working Space, Add	9.40	
23 21 13 23-0033 EA 1/2", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 44.22		25.10
For 300 LB Rating, Add	18.14	
For Standard Weight Cast Iron Fittings, Add	0.11	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0034 EA 3/4", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 50.06		28.06
For 300 LB Rating, Add	21.68	
For Standard Weight Cast Iron Fittings, Add	0.13	
For Work In Restricted Working Space, Add	12.62	
23 21 13 23-0035 EA 1", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 60.84		31.29
For 300 LB Rating, Add	36.06	
For Standard Weight Cast Iron Fittings, Add	0.22	
For Work In Restricted Working Space, Add	14.10	
23 21 13 23-0036 EA 1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 76.05		35.53
For 300 LB Rating, Add	58.01	
For Standard Weight Cast Iron Fittings, Add	0.37	
For Work In Restricted Working Space, Add	15.96	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0037	EA		1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.04 75.72 0.48 18.00	40.04
23 21 13 23-0038	EA		2", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.03 128.96 0.83 22.86	50.89
23 21 13 23-0039	EA		2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.24 283.85 1.85 33.84	75.29
23 21 13 23-0040	EA		3", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	317.34 414.36 2.70 44.52	98.97
23 21 13 23-0041	EA		4", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	508.61 879.66 5.81 43.72	97.18
23 21 13 23-0042	EA		5", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,212.45 2,554.04 16.97 45.62	101.43
23 21 13 23-0043	EA		6", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,383.87 2,949.27 19.60 47.69	106.05
<b>23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows (23 21 13 23-0014)</b>					
23 21 13 23-0045	EA		1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.04 32.28 0.20 10.34	22.98
23 21 13 23-0046	EA		3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.80 33.49 0.21 11.95	26.51
23 21 13 23-0047	EA		3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	54.82 45.67 0.29 11.01	24.53
23 21 13 23-0048	EA		1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	61.19 42.63 0.27 13.36	29.74
23 21 13 23-0049	EA		1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.25 45.64 0.29 12.69	28.20
23 21 13 23-0050	EA		1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.52 87.19 0.57 11.75	26.08
23 21 13 23-0051	EA		1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.06 70.13 0.45 15.03	33.42
23 21 13 23-0052	EA		1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.85 77.79 0.50 14.29	31.72
23 21 13 23-0053	EA		1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.86 90.25 0.58 13.62	30.31
23 21 13 23-0054	EA		1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.06 98.12 0.63 16.98	37.78
23 21 13 23-0055	EA		1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.96 97.94 0.63 16.05	35.67
23 21 13 23-0056	EA		1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.20 111.47 0.72 15.31	33.98
23 21 13 23-0057	EA		2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.28 141.32 0.91 20.43	45.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0058 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	129.69	43.14
<i>For 300 LB Rating, Add</i>	159.86	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.04	
<i>For Work In Restricted Working Space, Add</i>	19.41	
23 21 13 23-0059 EA 2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	126.58	41.03
<i>For 300 LB Rating, Add</i>	159.67	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.04	
<i>For Work In Restricted Working Space, Add</i>	18.48	
23 21 13 23-0060 EA 2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	128.04	39.48
<i>For 300 LB Rating, Add</i>	168.91	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.10	
<i>For Work In Restricted Working Space, Add</i>	17.74	
23 21 13 23-0061 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	251.43	63.02
<i>For 300 LB Rating, Add</i>	382.30	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.51	
<i>For Work In Restricted Working Space, Add</i>	28.35	
23 21 13 23-0062 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	252.56	57.66
<i>For 300 LB Rating, Add</i>	403.99	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.66	
<i>For Work In Restricted Working Space, Add</i>	25.92	
23 21 13 23-0063 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	424.28	87.12
<i>For 300 LB Rating, Add</i>	712.69	
<i>For Standard Weight Cast Iron Fittings, Add</i>	4.70	
<i>For Work In Restricted Working Space, Add</i>	39.18	
23 21 13 23-0064 EA 3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	366.00	74.87
<i>For 300 LB Rating, Add</i>	615.62	
<i>For Standard Weight Cast Iron Fittings, Add</i>	4.06	
<i>For Work In Restricted Working Space, Add</i>	33.69	
23 21 13 23-0065 EA 4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	640.53	92.43
<i>For 300 LB Rating, Add</i>	1,212.92	
<i>For Standard Weight Cast Iron Fittings, Add</i>	8.03	
<i>For Work In Restricted Working Space, Add</i>	41.58	
<b>23 21 13 23-0066 Black Malleable Iron 45 Degree Elbows (23 21 13 23-0014)</b>		
23 21 13 23-0067 EA 3/8", 150 LB, Black Malleable Iron 45 Degree Elbow .....	45.70	20.87
<i>For 300 LB Rating, Add</i>	36.37	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
<i>For Work In Restricted Working Space, Add</i>	9.40	
23 21 13 23-0068 EA 1/2", 150 LB, Black Malleable Iron 45 Degree Elbow .....	48.53	25.10
<i>For 300 LB Rating, Add</i>	28.49	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.17	
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-0069 EA 3/4", 150 LB, Black Malleable Iron 45 Degree Elbow .....	55.58	28.06
<i>For 300 LB Rating, Add</i>	34.92	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.22	
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 21 13 23-0070 EA 1", 150 LB, Black Malleable Iron 45 Degree Elbow .....	63.99	31.29
<i>For 300 LB Rating, Add</i>	43.62	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.27	
<i>For Work In Restricted Working Space, Add</i>	14.10	
23 21 13 23-0071 EA 1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow .....	83.29	35.53
<i>For 300 LB Rating, Add</i>	75.38	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.48	
<i>For Work In Restricted Working Space, Add</i>	15.96	
23 21 13 23-0072 EA 1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow .....	97.20	40.04
<i>For 300 LB Rating, Add</i>	92.90	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.60	
<i>For Work In Restricted Working Space, Add</i>	18.00	
23 21 13 23-0073 EA 2", 150 LB, Black Malleable Iron 45 Degree Elbow .....	132.46	50.89
<i>For 300 LB Rating, Add</i>	139.60	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.90	
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-0074 EA 2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow .....	275.59	75.29
<i>For 300 LB Rating, Add</i>	397.49	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.60	
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-0075 EA 3", 150 LB, Black Malleable Iron 45 Degree Elbow .....	359.86	98.97
<i>For 300 LB Rating, Add</i>	516.41	
<i>For Standard Weight Cast Iron Fittings, Add</i>	3.38	
<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13 23-0076 EA 4", 150 LB, Black Malleable Iron 45 Degree Elbow .....	560.39	97.18
<i>For 300 LB Rating, Add</i>	1,003.93	
<i>For Standard Weight Cast Iron Fittings, Add</i>	6.63	
<i>For Work In Restricted Working Space, Add</i>	43.72	
23 21 13 23-0077 EA 5", 150 LB, Black Malleable Iron 45 Degree Elbow .....	1,790.01	101.43
<i>For 300 LB Rating, Add</i>	3,940.18	
<i>For Standard Weight Cast Iron Fittings, Add</i>	26.21	
<i>For Work In Restricted Working Space, Add</i>	45.62	
23 21 13 23-0078 EA 6", 150 LB, Black Malleable Iron 45 Degree Elbow .....	1,834.77	106.05
<i>For 300 LB Rating, Add</i>	4,031.43	
<i>For Standard Weight Cast Iron Fittings, Add</i>	26.81	
<i>For Work In Restricted Working Space, Add</i>	47.69	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13	23-0079		<b>Black Malleable Iron Tees</b> <small>(23 21 13 23-0014)</small>		
23 21 13	23-0080	EA	3/8", 150 LB, Black Malleable Iron Tee.....	53.01	25.80
			<i>For 300 LB Rating, Add</i>	35.59	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.22	
			<i>For Work In Restricted Working Space, Add</i>	11.75	
23 21 13	23-0081	EA	1/2", 150 LB, Black Malleable Iron Tee.....	55.83	31.29
			<i>For 300 LB Rating, Add</i>	24.04	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
			<i>For Work In Restricted Working Space, Add</i>	14.10	
23 21 13	23-0082	EA	3/4", 150 LB, Black Malleable Iron Tee.....	66.90	36.23
			<i>For 300 LB Rating, Add</i>	33.69	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	16.27	
23 21 13	23-0083	EA	1", 150 LB, Black Malleable Iron Tee.....	85.82	42.72
			<i>For 300 LB Rating, Add</i>	56.00	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.35	
			<i>For Work In Restricted Working Space, Add</i>	19.23	
23 21 13	23-0084	EA	1-1/4", 150 LB, Black Malleable Iron Tee.....	111.38	50.89
			<i>For 300 LB Rating, Add</i>	89.00	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.56	
			<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13	23-0085	EA	1-1/2", 150 LB, Black Malleable Iron Tee.....	134.70	60.63
			<i>For 300 LB Rating, Add</i>	110.46	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.70	
			<i>For Work In Restricted Working Space, Add</i>	27.29	
23 21 13	23-0086	EA	2", 150 LB, Black Malleable Iron Tee.....	187.36	75.29
			<i>For 300 LB Rating, Add</i>	185.74	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.19	
			<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13	23-0087	EA	2-1/2", 150 LB, Black Malleable Iron Tee.....	309.17	98.97
			<i>For 300 LB Rating, Add</i>	394.75	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	2.57	
			<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13	23-0088	EA	3", 150 LB, Black Malleable Iron Tee.....	413.03	117.58
			<i>For 300 LB Rating, Add</i>	578.89	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	3.79	
			<i>For Work In Restricted Working Space, Add</i>	52.87	
23 21 13	23-0089	EA	4", 150 LB, Black Malleable Iron Tee.....	756.44	122.79
			<i>For 300 LB Rating, Add</i>	1,384.71	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	9.16	
			<i>For Work In Restricted Working Space, Add</i>	55.22	
23 21 13	23-0090	EA	5", 150 LB, Black Malleable Iron Tee.....	1,953.04	145.77
			<i>For 300 LB Rating, Add</i>	4,175.77	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	27.75	
			<i>For Work In Restricted Working Space, Add</i>	65.58	
23 21 13	23-0091	EA	6", 150 LB, Black Malleable Iron Tee.....	2,111.19	166.63
			<i>For 300 LB Rating, Add</i>	4,482.25	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	29.78	
			<i>For Work In Restricted Working Space, Add</i>	74.95	
23 21 13	23-0092		<b>Black Malleable Iron Reducing Tees</b> <small>(23 21 13 23-0014)</small>		
23 21 13	23-0093	EA	1/2", 150 LB, Black Malleable Iron Reducing Tee.....	62.03	31.29
			<i>For 300 LB Rating, Add</i>	38.92	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.24	
			<i>For Work In Restricted Working Space, Add</i>	14.10	
23 21 13	23-0094	EA	3/4", 150 LB, Black Malleable Iron Reducing Tee.....	73.84	36.23
			<i>For 300 LB Rating, Add</i>	50.34	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.31	
			<i>For Work In Restricted Working Space, Add</i>	16.27	
23 21 13	23-0095	EA	1", 150 LB, Black Malleable Iron Reducing Tee.....	88.84	42.72
			<i>For 300 LB Rating, Add</i>	63.25	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.40	
			<i>For Work In Restricted Working Space, Add</i>	19.23	
23 21 13	23-0096	EA	1-1/4", 150 LB, Black Malleable Iron Reducing Tee.....	124.86	50.89
			<i>For 300 LB Rating, Add</i>	121.36	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.78	
			<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13	23-0097	EA	1-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	144.86	60.63
			<i>For 300 LB Rating, Add</i>	134.84	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.86	
			<i>For Work In Restricted Working Space, Add</i>	27.29	
23 21 13	23-0098	EA	2", 150 LB, Black Malleable Iron Reducing Tee.....	191.05	75.29
			<i>For 300 LB Rating, Add</i>	194.59	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.25	
			<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13	23-0099	EA	2-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	392.26	98.97
			<i>For 300 LB Rating, Add</i>	594.17	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	3.90	
			<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13	23-0100	EA	3", 150 LB, Black Malleable Iron Reducing Tee.....	455.55	117.58
			<i>For 300 LB Rating, Add</i>	680.94	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	4.47	
			<i>For Work In Restricted Working Space, Add</i>	52.87	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0101 EA 4", 150 LB, Black Malleable Iron Reducing Tee.....	861.48	122.79
<i>For 300 LB Rating, Add</i>	1,636.80	
<i>For Standard Weight Cast Iron Fittings, Add</i>	10.84	
<i>For Work In Restricted Working Space, Add</i>	55.22	
23 21 13 23-0102 EA 5", 150 LB, Black Malleable Iron Reducing Tee.....	1,789.82	145.77
<i>For 300 LB Rating, Add</i>	3,784.04	
<i>For Standard Weight Cast Iron Fittings, Add</i>	25.14	
<i>For Work In Restricted Working Space, Add</i>	65.58	
23 21 13 23-0103 EA 6", 150 LB, Black Malleable Iron Reducing Tee.....	2,031.96	166.63
<i>For 300 LB Rating, Add</i>	4,292.10	
<i>For Standard Weight Cast Iron Fittings, Add</i>	28.51	
<i>For Work In Restricted Working Space, Add</i>	74.95	
<b>23 21 13 23-0104 Black Malleable Iron Couplings</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0105 EA 3/8", 150 LB, Black Malleable Iron Coupling.....	43.20	20.87
<i>For 300 LB Rating, Add</i>	30.37	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.19	
<i>For Work In Restricted Working Space, Add</i>	9.40	
23 21 13 23-0106 EA 1/2", 150 LB, Black Malleable Iron Coupling.....	46.74	25.10
<i>For 300 LB Rating, Add</i>	24.19	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.15	
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-0107 EA 3/4", 150 LB, Black Malleable Iron Coupling.....	52.78	28.06
<i>For 300 LB Rating, Add</i>	28.20	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.17	
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 21 13 23-0108 EA 1", 150 LB, Black Malleable Iron Coupling.....	63.02	31.29
<i>For 300 LB Rating, Add</i>	41.29	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.26	
<i>For Work In Restricted Working Space, Add</i>	14.10	
23 21 13 23-0109 EA 1-1/4", 150 LB, Black Malleable Iron Coupling.....	73.97	35.53
<i>For 300 LB Rating, Add</i>	53.02	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.33	
<i>For Work In Restricted Working Space, Add</i>	15.96	
23 21 13 23-0110 EA 1-1/2", 150 LB, Black Malleable Iron Coupling.....	88.04	40.04
<i>For 300 LB Rating, Add</i>	70.92	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.45	
<i>For Work In Restricted Working Space, Add</i>	18.00	
23 21 13 23-0111 EA 2", 150 LB, Black Malleable Iron Coupling.....	117.77	50.89
<i>For 300 LB Rating, Add</i>	104.34	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.67	
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-0112 EA 2-1/2", 150 LB, Black Malleable Iron Coupling.....	227.50	75.29
<i>For 300 LB Rating, Add</i>	282.07	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.84	
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-0113 EA 3", 150 LB, Black Malleable Iron Coupling.....	303.49	98.97
<i>For 300 LB Rating, Add</i>	381.12	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.48	
<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13 23-0114 EA 4", 150 LB, Black Malleable Iron Coupling.....	458.07	97.18
<i>For 300 LB Rating, Add</i>	758.36	
<i>For Standard Weight Cast Iron Fittings, Add</i>	5.00	
<i>For Work In Restricted Working Space, Add</i>	43.72	
23 21 13 23-0115 EA 5", 150 LB, Black Malleable Iron Coupling.....	1,031.56	101.43
<i>For 300 LB Rating, Add</i>	2,119.90	
<i>For Standard Weight Cast Iron Fittings, Add</i>	14.07	
<i>For Work In Restricted Working Space, Add</i>	45.62	
23 21 13 23-0116 EA 6", 150 LB, Black Malleable Iron Coupling.....	1,160.94	106.05
<i>For 300 LB Rating, Add</i>	2,414.24	
<i>For Standard Weight Cast Iron Fittings, Add</i>	16.03	
<i>For Work In Restricted Working Space, Add</i>	47.69	
<b>23 21 13 23-0117 Black Malleable Iron Reducing Couplings</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0118 EA 1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	48.95	25.10
<i>For 300 LB Rating, Add</i>	29.50	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.18	
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-0119 EA 3/4", 150 LB, Black Malleable Iron Reducing Coupling.....	54.10	28.06
<i>For 300 LB Rating, Add</i>	31.37	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.19	
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 21 13 23-0120 EA 1", 150 LB, Black Malleable Iron Reducing Coupling.....	65.70	31.29
<i>For 300 LB Rating, Add</i>	47.72	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.30	
<i>For Work In Restricted Working Space, Add</i>	14.10	
23 21 13 23-0121 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Coupling.....	77.27	35.53
<i>For 300 LB Rating, Add</i>	60.94	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.38	
<i>For Work In Restricted Working Space, Add</i>	15.96	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0122 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.39 76.56 0.49 18.00	40.04
23 21 13 23-0123 EA 2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.25 110.29 0.70 22.86	50.89
23 21 13 23-0124 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	242.98 319.22 2.08 33.84	75.29
23 21 13 23-0125 EA 3", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	306.66 388.73 2.53 44.52	98.97
23 21 13 23-0126 EA 4", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	462.95 770.07 5.08 43.72	97.18
23 21 13 23-0127 EA 5", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	865.08 1,720.35 11.41 45.62	101.43
23 21 13 23-0128 EA 6", 150 LB, Black Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,074.77 2,207.43 14.65 47.69	106.05
<b>23 21 13 23-0129 Black Malleable Iron Caps</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0130 EA 1/2", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.60 17.07 0.11 5.07	11.14
23 21 13 23-0131 EA 3/4", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.97 22.83 0.14 5.68	12.55
23 21 13 23-0132 EA 1", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.10 27.55 0.18 6.35	13.96
23 21 13 23-0133 EA 1-1/4", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.36 36.04 0.23 7.18	15.79
23 21 13 23-0134 EA 1-1/2", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.82 49.19 0.32 8.10	17.77
23 21 13 23-0135 EA 2", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.23 71.51 0.46 10.29	22.70
23 21 13 23-0136 EA 2-1/2", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.15 162.41 1.06 15.23	33.56
23 21 13 23-0137 EA 3", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.69 238.99 1.57 20.03	44.12
23 21 13 23-0138 EA 4", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.48 406.89 2.69 19.67	43.34
23 21 13 23-0139 EA 5", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	468.60 964.51 6.40 20.53	45.21
23 21 13 23-0140 EA 6", 150 LB, Black Malleable Iron Cap ..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	805.08 1,764.79 11.74 21.46	47.22
<b>23 21 13 23-0141 Black Malleable Iron Unions</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0142 EA 3/8", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	63.39 9.40	20.87
23 21 13 23-0143 EA 1/2", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	76.00 14.10	31.29
23 21 13 23-0144 EA 3/4", 150 LB, Black Malleable Iron Union..... <i>For Work In Restricted Working Space, Add</i>	87.57 16.27	36.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0145 EA 1", 150 LB, Black Malleable Iron Union.....	107.57	42.72
<i>For Work In Restricted Working Space, Add</i>	19.23	
23 21 13 23-0146 EA 1-1/4", 150 LB, Black Malleable Iron Union .....	138.56	50.89
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-0147 EA 1-1/2", 150 LB, Black Malleable Iron Union .....	168.69	60.63
<i>For Work In Restricted Working Space, Add</i>	27.29	
23 21 13 23-0148 EA 2", 150 LB, Black Malleable Iron Union.....	203.19	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-0149 EA 2-1/2", 150 LB, Black Malleable Iron Union .....	435.82	110.96
<i>For Work In Restricted Working Space, Add</i>	49.95	
23 21 13 23-0150 EA 3", 150 LB, Black Malleable Iron Union.....	543.30	145.92
<i>For Work In Restricted Working Space, Add</i>	65.72	
23 21 13 23-0151 EA 3/8", 250 LB, Black Malleable Iron Union.....	73.69	20.87
<i>For Work In Restricted Working Space, Add</i>	9.40	
23 21 13 23-0152 EA 1/2", 250 LB, Black Malleable Iron Union.....	95.60	31.29
<i>For Work In Restricted Working Space, Add</i>	14.10	
23 21 13 23-0153 EA 3/4", 250 LB, Black Malleable Iron Union.....	102.04	36.23
<i>For Work In Restricted Working Space, Add</i>	16.27	
23 21 13 23-0154 EA 1", 250 LB, Black Malleable Iron Union.....	122.75	42.72
<i>For Work In Restricted Working Space, Add</i>	19.22	
23 21 13 23-0155 EA 1-1/4", 250 LB, Black Malleable Iron Union .....	174.63	50.89
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-0156 EA 1-1/2", 250 LB, Black Malleable Iron Union .....	204.28	60.63
<i>For Work In Restricted Working Space, Add</i>	27.29	
23 21 13 23-0157 EA 2", 250 LB, Black Malleable Iron Union.....	258.17	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-0158 EA 2-1/2", 250 LB, Black Malleable Iron Union .....	622.19	110.96
<i>For Work In Restricted Working Space, Add</i>	49.95	
23 21 13 23-0159 EA 3", 250 LB, Black Malleable Iron Union.....	752.38	145.92
<i>For Work In Restricted Working Space, Add</i>	65.72	
23 21 13 23-0160 EA 4", 250 LB, Black Malleable Iron Union.....	1,160.43	143.41
<i>For Work In Restricted Working Space, Add</i>	64.54	
23 21 13 23-0161 EA 3/8", 300 LB, Black Malleable Iron Union.....	100.07	20.87
<i>For Work In Restricted Working Space, Add</i>	9.40	
23 21 13 23-0162 EA 1/2", 300 LB, Black Malleable Iron Union.....	102.61	31.29
<i>For Work In Restricted Working Space, Add</i>	14.10	
23 21 13 23-0163 EA 3/4", 300 LB, Black Malleable Iron Union.....	115.81	36.23
<i>For Work In Restricted Working Space, Add</i>	16.27	
23 21 13 23-0164 EA 1", 300 LB, Black Malleable Iron Union.....	144.50	42.72
<i>For Work In Restricted Working Space, Add</i>	19.22	
23 21 13 23-0165 EA 1-1/4", 300 LB, Black Malleable Iron Union .....	207.36	50.89
<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-0166 EA 1-1/2", 300 LB, Black Malleable Iron Union .....	228.31	60.63
<i>For Work In Restricted Working Space, Add</i>	27.29	
23 21 13 23-0167 EA 2", 300 LB, Black Malleable Iron Union.....	282.92	75.29
<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-0168 EA 2-1/2", 300 LB, Black Malleable Iron Union .....	715.02	110.96
<i>For Work In Restricted Working Space, Add</i>	49.95	
23 21 13 23-0169 EA 3", 300 LB, Black Malleable Iron Union.....	928.68	145.92
<i>For Work In Restricted Working Space, Add</i>	65.72	
23 21 13 23-0170 EA 4", 300 LB, Black Malleable Iron Union.....	2,467.37	143.41
<i>For Work In Restricted Working Space, Add</i>	64.54	
<b>23 21 13 23-0171 Black Steel Nipples</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0172 EA 3/8" x Close, Schedule 40 Black Steel Nipple.....	25.04	13.39
<i>For Schedule 80 Nipples, Add</i>	2.45	
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21 13 23-0173 EA 1/2" x Close, Schedule 40 Black Steel Nipple.....	24.27	13.39
<i>For Schedule 80 Nipples, Add</i>	2.07	
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21 13 23-0174 EA 3/4" x Close, Schedule 40 Black Steel Nipple.....	24.89	13.39
<i>For Schedule 80 Nipples, Add</i>	2.38	
<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21 13 23-0175 EA 1" x Close, Schedule 40 Black Steel Nipple.....	28.58	14.52
<i>For Schedule 80 Nipples, Add</i>	3.45	
<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21 13 23-0176 EA 1-1/4" x Close, Schedule 40 Black Steel Nipple .....	32.23	15.65
<i>For Schedule 80 Nipples, Add</i>	4.37	
<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21 13 23-0177 EA 1-1/2" x Close, Schedule 40 Black Steel Nipple .....	34.37	15.65
<i>For Schedule 80 Nipples, Add</i>	5.44	
<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21 13 23-0178 EA 2" x Close, Schedule 40 Black Steel Nipple.....	45.12	20.16
<i>For Schedule 80 Nipples, Add</i>	7.40	
<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-0179 EA 2-1/2" x Close, Schedule 40 Black Steel Nipple .....	83.94	25.10
<i>For Schedule 80 Nipples, Add</i>	23.17	
<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-0180 EA 3" x Close, Schedule 40 Black Steel Nipple.....	100.54	30.31
<i>For Schedule 80 Nipples, Add</i>	27.53	
<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21 13 23-0181 EA 4" x Close, Schedule 40 Black Steel Nipple.....	132.89	33.35
<i>For Schedule 80 Nipples, Add</i>	41.46	
<i>For Work In Restricted Working Space, Add</i>	14.99	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0182	EA	3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple .....	25.70	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.78	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0183	EA	1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple.....	24.27	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.07	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0184	EA	3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple.....	25.24	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.55	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0185	EA	3/8" x 2" Long, Schedule 40 Black Steel Nipple.....	25.70	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.78	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0186	EA	1/2" x 2" Long, Schedule 40 Black Steel Nipple.....	24.27	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.07	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0187	EA	3/4" x 2" Long, Schedule 40 Black Steel Nipple.....	25.24	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.55	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0188	EA	1" x 2" Long, Schedule 40 Black Steel Nipple.....	29.24	14.52
			<i>For Schedule 80 Nipples, Add</i>	3.78	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0189	EA	1-1/4" x 2" Long, Schedule 40 Black Steel Nipple .....	33.40	15.65
			<i>For Schedule 80 Nipples, Add</i>	4.95	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0190	EA	1-1/2" x 2" Long, Schedule 40 Black Steel Nipple .....	35.24	15.65
			<i>For Schedule 80 Nipples, Add</i>	5.87	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0191	EA	3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple .....	27.28	13.39
			<i>For Schedule 80 Nipples, Add</i>	3.57	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0192	EA	1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	25.04	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.45	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0193	EA	3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple.....	25.91	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.89	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0194	EA	1" x 2-1/2" Long, Schedule 40 Black Steel Nipple .....	29.70	14.52
			<i>For Schedule 80 Nipples, Add</i>	4.01	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0195	EA	1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple .....	34.01	15.65
			<i>For Schedule 80 Nipples, Add</i>	5.26	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0196	EA	1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple .....	36.61	15.65
			<i>For Schedule 80 Nipples, Add</i>	6.56	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0197	EA	2" x 2-1/2" Long, Schedule 40 Black Steel Nipple .....	47.31	20.16
			<i>For Schedule 80 Nipples, Add</i>	8.50	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0198	EA	3/8" x 3" Long, Schedule 40 Black Steel Nipple.....	27.28	13.39
			<i>For Schedule 80 Nipples, Add</i>	3.57	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0199	EA	1/2" x 3" Long, Schedule 40 Black Steel Nipple.....	25.04	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.45	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0200	EA	3/4" x 3" Long, Schedule 40 Black Steel Nipple.....	25.91	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.89	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0201	EA	1" x 3" Long, Schedule 40 Black Steel Nipple.....	29.70	14.52
			<i>For Schedule 80 Nipples, Add</i>	4.01	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0202	EA	1-1/4" x 3" Long, Schedule 40 Black Steel Nipple .....	34.01	15.65
			<i>For Schedule 80 Nipples, Add</i>	5.26	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0203	EA	1-1/2" x 3" Long, Schedule 40 Black Steel Nipple .....	36.61	15.65
			<i>For Schedule 80 Nipples, Add</i>	6.56	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0204	EA	2" x 3" Long, Schedule 40 Black Steel Nipple.....	47.31	20.16
			<i>For Schedule 80 Nipples, Add</i>	8.50	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0205	EA	2-1/2" x 3" Long, Schedule 40 Black Steel Nipple .....	85.16	25.10
			<i>For Schedule 80 Nipples, Add</i>	23.78	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21	13 23-0206	EA	3" x 3" Long, Schedule 40 Black Steel Nipple.....	105.34	30.31
			<i>For Schedule 80 Nipples, Add</i>	29.93	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0207	EA	3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	28.56	13.39
			<i>For Schedule 80 Nipples, Add</i>	4.21	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0208	EA	1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	26.01	13.39
			<i>For Schedule 80 Nipples, Add</i>	2.94	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0209	EA	3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple.....	27.28	13.39
			<i>For Schedule 80 Nipples, Add</i>	3.57	
			<i>For Work In Restricted Working Space, Add</i>	6.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0210 EA 1" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	31.59	14.52
For Schedule 80 Nipples, Add	4.95	
For Work In Restricted Working Space, Add	6.51	
23 21 13 23-0211 EA 1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	35.95	15.65
For Schedule 80 Nipples, Add	6.23	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0212 EA 1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	38.20	15.65
For Schedule 80 Nipples, Add	7.35	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0213 EA 2" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	50.89	20.16
For Schedule 80 Nipples, Add	10.29	
For Work In Restricted Working Space, Add	9.10	
23 21 13 23-0214 EA 2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	93.53	25.10
For Schedule 80 Nipples, Add	27.97	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0215 EA 3" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	116.36	30.31
For Schedule 80 Nipples, Add	35.44	
For Work In Restricted Working Space, Add	13.64	
23 21 13 23-0216 EA 3/8" x 4" Long, Schedule 40 Black Steel Nipple.....	28.56	13.39
For Schedule 80 Nipples, Add	4.21	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0217 EA 1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	26.01	13.39
For Schedule 80 Nipples, Add	2.94	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0218 EA 3/4" x 4" Long, Schedule 40 Black Steel Nipple.....	27.28	13.39
For Schedule 80 Nipples, Add	3.57	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0219 EA 1" x 4" Long, Schedule 40 Black Steel Nipple.....	31.59	14.52
For Schedule 80 Nipples, Add	4.95	
For Work In Restricted Working Space, Add	6.51	
23 21 13 23-0220 EA 1-1/4" x 4" Long, Schedule 40 Black Steel Nipple .....	35.95	15.65
For Schedule 80 Nipples, Add	6.23	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0221 EA 1-1/2" x 4" Long, Schedule 40 Black Steel Nipple .....	38.20	15.65
For Schedule 80 Nipples, Add	7.35	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0222 EA 2" x 4" Long, Schedule 40 Black Steel Nipple.....	50.89	20.16
For Schedule 80 Nipples, Add	10.29	
For Work In Restricted Working Space, Add	9.10	
23 21 13 23-0223 EA 2-1/2" x 4" Long, Schedule 40 Black Steel Nipple .....	93.53	25.10
For Schedule 80 Nipples, Add	27.97	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0224 EA 3" x 4" Long, Schedule 40 Black Steel Nipple.....	116.36	30.31
For Schedule 80 Nipples, Add	35.44	
For Work In Restricted Working Space, Add	13.64	
23 21 13 23-0225 EA 4" x 4" Long, Schedule 40 Black Steel Nipple.....	145.91	33.35
For Schedule 80 Nipples, Add	47.97	
For Work In Restricted Working Space, Add	14.99	
23 21 13 23-0226 EA 3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	32.29	13.39
For Schedule 80 Nipples, Add	6.08	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0227 EA 1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	27.03	13.39
For Schedule 80 Nipples, Add	3.45	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0228 EA 3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	29.12	13.39
For Schedule 80 Nipples, Add	4.49	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0229 EA 1" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	33.43	14.52
For Schedule 80 Nipples, Add	5.87	
For Work In Restricted Working Space, Add	6.51	
23 21 13 23-0230 EA 1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	38.40	15.65
For Schedule 80 Nipples, Add	7.45	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0231 EA 1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	41.46	15.65
For Schedule 80 Nipples, Add	8.98	
For Work In Restricted Working Space, Add	7.05	
23 21 13 23-0232 EA 2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	54.00	20.16
For Schedule 80 Nipples, Add	11.84	
For Work In Restricted Working Space, Add	9.10	
23 21 13 23-0233 EA 2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	99.04	25.10
For Schedule 80 Nipples, Add	30.72	
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-0234 EA 3" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	123.66	30.31
For Schedule 80 Nipples, Add	39.09	
For Work In Restricted Working Space, Add	13.64	
23 21 13 23-0235 EA 4" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	159.58	33.35
For Schedule 80 Nipples, Add	54.81	
For Work In Restricted Working Space, Add	14.99	
23 21 13 23-0236 EA 3/8" x 5" Long, Schedule 40 Black Steel Nipple.....	32.29	13.39
For Schedule 80 Nipples, Add	6.08	
For Work In Restricted Working Space, Add	6.04	
23 21 13 23-0237 EA 1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	27.03	13.39
For Schedule 80 Nipples, Add	3.45	
For Work In Restricted Working Space, Add	6.04	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0238	EA	3/4" x 5" Long, Schedule 40 Black Steel Nipple.....	29.12	13.39
			<i>For Schedule 80 Nipples, Add</i>	4.49	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0239	EA	1" x 5" Long, Schedule 40 Black Steel Nipple.....	33.43	14.52
			<i>For Schedule 80 Nipples, Add</i>	5.87	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0240	EA	1-1/4" x 5" Long, Schedule 40 Black Steel Nipple.....	38.40	15.65
			<i>For Schedule 80 Nipples, Add</i>	7.45	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0241	EA	1-1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	41.46	15.65
			<i>For Schedule 80 Nipples, Add</i>	8.98	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0242	EA	2" x 5" Long, Schedule 40 Black Steel Nipple.....	54.00	20.16
			<i>For Schedule 80 Nipples, Add</i>	11.84	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0243	EA	2-1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	99.04	25.10
			<i>For Schedule 80 Nipples, Add</i>	30.72	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21	13 23-0244	EA	3" x 5" Long, Schedule 40 Black Steel Nipple.....	123.66	30.31
			<i>For Schedule 80 Nipples, Add</i>	39.09	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0245	EA	4" x 5" Long, Schedule 40 Black Steel Nipple.....	159.58	33.35
			<i>For Schedule 80 Nipples, Add</i>	54.81	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
23 21	13 23-0246	EA	3/8" x 6" Long, Schedule 40 Black Steel Nipple.....	33.66	13.39
			<i>For Schedule 80 Nipples, Add</i>	6.76	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0247	EA	1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	27.85	13.39
			<i>For Schedule 80 Nipples, Add</i>	3.86	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0248	EA	3/4" x 6" Long, Schedule 40 Black Steel Nipple.....	30.35	13.39
			<i>For Schedule 80 Nipples, Add</i>	5.11	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0249	EA	1" x 6" Long, Schedule 40 Black Steel Nipple.....	35.57	14.52
			<i>For Schedule 80 Nipples, Add</i>	6.94	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0250	EA	1-1/4" x 6" Long, Schedule 40 Black Steel Nipple.....	41.16	15.65
			<i>For Schedule 80 Nipples, Add</i>	8.83	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0251	EA	1-1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	44.12	15.65
			<i>For Schedule 80 Nipples, Add</i>	10.31	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0252	EA	2" x 6" Long, Schedule 40 Black Steel Nipple.....	58.08	20.16
			<i>For Schedule 80 Nipples, Add</i>	13.88	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0253	EA	2-1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	101.64	25.10
			<i>For Schedule 80 Nipples, Add</i>	32.02	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21	13 23-0254	EA	3" x 6" Long, Schedule 40 Black Steel Nipple.....	130.45	30.31
			<i>For Schedule 80 Nipples, Add</i>	42.49	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0255	EA	4" x 6" Long, Schedule 40 Black Steel Nipple.....	167.14	33.35
			<i>For Schedule 80 Nipples, Add</i>	58.59	
			<i>For Work In Restricted Working Space, Add</i>	14.99	
23 21	13 23-0256	EA	3/8" x 8" Long, Schedule 40 Black Steel Nipple.....	43.87	13.39
			<i>For Schedule 80 Nipples, Add</i>	11.87	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0257	EA	1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	34.02	13.39
			<i>For Schedule 80 Nipples, Add</i>	6.94	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0258	EA	3/4" x 8" Long, Schedule 40 Black Steel Nipple.....	37.13	13.39
			<i>For Schedule 80 Nipples, Add</i>	8.50	
			<i>For Work In Restricted Working Space, Add</i>	6.04	
23 21	13 23-0259	EA	1" x 8" Long, Schedule 40 Black Steel Nipple.....	44.40	14.52
			<i>For Schedule 80 Nipples, Add</i>	11.36	
			<i>For Work In Restricted Working Space, Add</i>	6.51	
23 21	13 23-0260	EA	1-1/4" x 8" Long, Schedule 40 Black Steel Nipple.....	52.03	15.65
			<i>For Schedule 80 Nipples, Add</i>	14.27	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0261	EA	1-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	56.21	15.65
			<i>For Schedule 80 Nipples, Add</i>	16.36	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
23 21	13 23-0262	EA	2" x 8" Long, Schedule 40 Black Steel Nipple.....	76.86	20.16
			<i>For Schedule 80 Nipples, Add</i>	23.27	
			<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21	13 23-0263	EA	2-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	119.10	25.10
			<i>For Schedule 80 Nipples, Add</i>	40.75	
			<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21	13 23-0264	EA	3" x 8" Long, Schedule 40 Black Steel Nipple.....	160.09	30.31
			<i>For Schedule 80 Nipples, Add</i>	57.31	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0265	EA	4" x 8" Long, Schedule 40 Black Steel Nipple.....	185.20	33.35
			<i>For Schedule 80 Nipples, Add</i>	67.62	
			<i>For Work In Restricted Working Space, Add</i>	14.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0266 EA 3/8" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.78 13.32 6.04	13.39
23 21 13 23-0267 EA 1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.83 8.35 6.04	13.39
23 21 13 23-0268 EA 3/4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.89 9.88 6.04	13.39
23 21 13 23-0269 EA 1" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.23 13.27 6.51	14.52
23 21 13 23-0270 EA 1-1/4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.69 17.10 7.05	15.65
23 21 13 23-0271 EA 1-1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	61.77 19.14 7.05	15.65
23 21 13 23-0272 EA 2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.02 27.35 9.10	20.16
23 21 13 23-0273 EA 2-1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.15 45.78 11.28	25.10
23 21 13 23-0274 EA 3" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	174.23 64.38 13.64	30.31
23 21 13 23-0275 EA 4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	203.98 77.01 14.99	33.35
23 21 13 23-0276 EA 3/8" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.45 15.16 6.04	13.39
23 21 13 23-0277 EA 1/2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.94 9.90 6.04	13.39
23 21 13 23-0278 EA 3/4" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.08 10.97 6.04	13.39
23 21 13 23-0279 EA 1" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.16 15.24 6.51	14.52
23 21 13 23-0280 EA 1-1/4" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.28 19.39 7.05	15.65
23 21 13 23-0281 EA 1-1/2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.59 22.05 7.05	15.65
23 21 13 23-0282 EA 2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.29 31.49 9.10	20.16
23 21 13 23-0283 EA 2-1/2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	139.46 50.93 11.28	25.10
23 21 13 23-0284 EA 3" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	188.37 71.45 13.64	30.31
23 21 13 23-0285 EA 4" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.52 90.28 14.99	33.35
<b>23 21 13 23-0286 Black Malleable Iron Bushing (23 21 13 23-0014)</b>		
23 21 13 23-0287 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	44.61 10.34	22.98
23 21 13 23-0288 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	51.67 11.11	24.67
23 21 13 23-0289 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	54.48 11.95	26.51
23 21 13 23-0290 EA 1" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	59.67 11.84	26.37
23 21 13 23-0291 EA 1" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	57.38 12.69	28.20
23 21 13 23-0292 EA 1" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	59.63 13.36	29.74
23 21 13 23-0293 EA 1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	65.22 12.77	28.34
23 21 13 23-0294 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	67.02 13.62	30.31
23 21 13 23-0295 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	67.10 14.29	31.72
23 21 13 23-0296 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	69.56 15.03	33.42
23 21 13 23-0297 EA 1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	75.85 13.79	30.73

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0298 EA 1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	73.42	32.57
<i>For Work In Restricted Working Space, Add</i>	14.64	
23 21 13 23-0299 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	75.66	33.98
<i>For Work In Restricted Working Space, Add</i>	15.31	
23 21 13 23-0300 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....	75.12	35.67
<i>For Work In Restricted Working Space, Add</i>	16.05	
23 21 13 23-0301 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	81.29	37.78
<i>For Work In Restricted Working Space, Add</i>	16.98	
23 21 13 23-0302 EA 2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	96.27	36.09
<i>For Work In Restricted Working Space, Add</i>	16.22	
23 21 13 23-0303 EA 2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	94.09	37.92
<i>For Work In Restricted Working Space, Add</i>	17.07	
23 21 13 23-0304 EA 2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	90.60	39.48
<i>For Work In Restricted Working Space, Add</i>	17.74	
23 21 13 23-0305 EA 2" x 1", 150 LB, Black Malleable Iron Bushing.....	91.07	41.03
<i>For Work In Restricted Working Space, Add</i>	18.48	
23 21 13 23-0306 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	94.18	43.14
<i>For Work In Restricted Working Space, Add</i>	19.41	
23 21 13 23-0307 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	100.90	45.39
<i>For Work In Restricted Working Space, Add</i>	20.43	
23 21 13 23-0308 EA 2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	131.00	51.60
<i>For Work In Restricted Working Space, Add</i>	23.23	
23 21 13 23-0309 EA 2-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....	133.45	53.30
<i>For Work In Restricted Working Space, Add</i>	23.97	
23 21 13 23-0310 EA 2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	136.56	55.27
<i>For Work In Restricted Working Space, Add</i>	24.90	
23 21 13 23-0311 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	136.29	57.66
<i>For Work In Restricted Working Space, Add</i>	25.92	
23 21 13 23-0312 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Bushing.....	144.00	63.02
<i>For Work In Restricted Working Space, Add</i>	28.35	
23 21 13 23-0313 EA 3" x 3/4", 150 LB, Black Malleable Iron Bushing.....	169.33	63.44
<i>For Work In Restricted Working Space, Add</i>	28.58	
23 21 13 23-0314 EA 3" x 1", 150 LB, Black Malleable Iron Bushing.....	171.78	65.13
<i>For Work In Restricted Working Space, Add</i>	29.31	
23 21 13 23-0315 EA 3" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	174.88	67.25
<i>For Work In Restricted Working Space, Add</i>	30.24	
23 21 13 23-0316 EA 3" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	176.84	69.51
<i>For Work In Restricted Working Space, Add</i>	31.26	
23 21 13 23-0317 EA 3" x 2", 150 LB, Black Malleable Iron Bushing.....	180.18	74.87
<i>For Work In Restricted Working Space, Add</i>	33.69	
23 21 13 23-0318 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Bushing.....	199.49	87.12
<i>For Work In Restricted Working Space, Add</i>	39.18	
23 21 13 23-0319 EA 4" x 3/4", 150 LB, Black Malleable Iron Bushing.....	233.61	60.96
<i>For Work In Restricted Working Space, Add</i>	27.46	
23 21 13 23-0320 EA 4" x 1", 150 LB, Black Malleable Iron Bushing.....	235.77	62.46
<i>For Work In Restricted Working Space, Add</i>	28.10	
23 21 13 23-0321 EA 4" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	238.52	64.33
<i>For Work In Restricted Working Space, Add</i>	28.93	
23 21 13 23-0322 EA 4" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	241.53	66.33
<i>For Work In Restricted Working Space, Add</i>	29.83	
23 21 13 23-0323 EA 4" x 2", 150 LB, Black Malleable Iron Bushing.....	241.09	71.08
<i>For Work In Restricted Working Space, Add</i>	31.99	
23 21 13 23-0324 EA 4" x 2-1/2", 150 LB, Black Malleable Iron Bushing.....	257.29	81.94
<i>For Work In Restricted Working Space, Add</i>	36.85	
23 21 13 23-0325 EA 4" x 3", 150 LB, Black Malleable Iron Bushing.....	273.07	92.43
<i>For Work In Restricted Working Space, Add</i>	41.58	
<b>23 21 13 23-0326 Black Malleable Iron Square Head Plugs</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0327 EA 3/8", 150 LB, Black Malleable Iron Square Head Plug.....	20.28	8.32
<i>For Work In Restricted Working Space, Add</i>	3.76	
23 21 13 23-0328 EA 1/2", 150 LB, Black Malleable Iron Square Head Plug.....	23.31	10.01
<i>For Work In Restricted Working Space, Add</i>	4.51	
23 21 13 23-0329 EA 3/4", 150 LB, Black Malleable Iron Square Head Plug.....	25.10	11.28
<i>For Work In Restricted Working Space, Add</i>	5.05	
23 21 13 23-0330 EA 1", 150 LB, Black Malleable Iron Square Head Plug.....	29.20	12.55
<i>For Work In Restricted Working Space, Add</i>	5.64	
23 21 13 23-0331 EA 1-1/4", 150 LB, Black Malleable Iron Square Head Plug.....	34.39	14.24
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 21 13 23-0332 EA 1-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	42.27	15.93
<i>For Work In Restricted Working Space, Add</i>	7.20	
23 21 13 23-0333 EA 2", 150 LB, Black Malleable Iron Square Head Plug.....	56.47	20.30
<i>For Work In Restricted Working Space, Add</i>	9.14	
23 21 13 23-0334 EA 2-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	92.41	30.03
<i>For Work In Restricted Working Space, Add</i>	13.53	
23 21 13 23-0335 EA 3", 150 LB, Black Malleable Iron Square Head Plug.....	124.31	39.62
<i>For Work In Restricted Working Space, Add</i>	17.81	
23 21 13 23-0336 EA 4", 150 LB, Black Malleable Iron Square Head Plug.....	194.50	38.85
<i>For Work In Restricted Working Space, Add</i>	17.49	
23 21 13 23-0337 EA 5", 150 LB, Black Malleable Iron Square Head Plug.....	353.40	40.59
<i>For Work In Restricted Working Space, Add</i>	18.25	
23 21 13 23-0338 EA 6", 150 LB, Black Malleable Iron Square Head Plug.....	425.99	42.35
<i>For Work In Restricted Working Space, Add</i>	19.08	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0339				<b>125 LB Black Cast Iron Screwed Flanges</b> <small>(23 21 13 23-0014)</small> Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0340	EA			3/4", 125 LB, Black Cast Iron Flange.....	232.89	56.39
				<i>For Work In Restricted Working Space, Add</i>	25.38	
23 21 13 23-0341	EA			1", 125 LB, Black Cast Iron Flange.....	189.90	63.72
				<i>For Work In Restricted Working Space, Add</i>	28.67	
23 21 13 23-0342	EA			1-1/4", 125 LB, Black Cast Iron Flange.....	211.77	65.98
				<i>For Work In Restricted Working Space, Add</i>	29.68	
23 21 13 23-0343	EA			1-1/2", 125 LB, Black Cast Iron Flange.....	211.90	71.76
				<i>For Work In Restricted Working Space, Add</i>	32.29	
23 21 13 23-0344	EA			2", 125 LB, Black Cast Iron Flange.....	216.39	74.87
				<i>For Work In Restricted Working Space, Add</i>	33.70	
23 21 13 23-0345	EA			2-1/2", 125 LB, Black Cast Iron Flange.....	251.66	86.70
				<i>For Work In Restricted Working Space, Add</i>	38.97	
23 21 13 23-0346	EA			3", 125 LB, Black Cast Iron Flange.....	321.72	109.97
				<i>For Work In Restricted Working Space, Add</i>	49.47	
23 21 13 23-0347	EA			4", 125 LB, Black Cast Iron Flange.....	411.23	133.29
				<i>For Work In Restricted Working Space, Add</i>	59.96	
23 21 13 23-0348	EA			5", 125 LB, Black Cast Iron Flange.....	536.50	158.77
				<i>For Work In Restricted Working Space, Add</i>	71.38	
23 21 13 23-0349	EA			6", 125 LB, Black Cast Iron Flange.....	611.06	182.25
				<i>For Work In Restricted Working Space, Add</i>	81.98	
23 21 13 23-0350				<b>150 LB, Black Malleable Iron Flanges</b> <small>(23 21 13 23-0014)</small> Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0351	EA			1/2", 150 LB, Black Malleable Iron Flange.....	110.05	51.46
				<i>For Work In Restricted Working Space, Add</i>	23.18	
23 21 13 23-0352	EA			3/4", 150 LB, Black Malleable Iron Flange.....	119.94	56.39
				<i>For Work In Restricted Working Space, Add</i>	25.38	
23 21 13 23-0353	EA			1", 150 LB, Black Malleable Iron Flange.....	141.50	63.72
				<i>For Work In Restricted Working Space, Add</i>	28.67	
23 21 13 23-0354	EA			1-1/4", 150 LB, Black Malleable Iron Flange.....	148.02	65.98
				<i>For Work In Restricted Working Space, Add</i>	29.68	
23 21 13 23-0355	EA			1-1/2", 150 LB, Black Malleable Iron Flange.....	161.18	71.76
				<i>For Work In Restricted Working Space, Add</i>	32.29	
23 21 13 23-0356	EA			2", 150 LB, Black Malleable Iron Flange.....	182.18	74.87
				<i>For Work In Restricted Working Space, Add</i>	33.69	
23 21 13 23-0357	EA			2-1/2", 150 LB, Black Malleable Iron Flange.....	239.47	86.70
				<i>For Work In Restricted Working Space, Add</i>	38.97	
23 21 13 23-0358	EA			3", 150 LB, Black Malleable Iron Flange.....	303.32	109.97
				<i>For Work In Restricted Working Space, Add</i>	49.46	
23 21 13 23-0359	EA			4", 150 LB, Black Malleable Iron Flange.....	435.02	133.29
				<i>For Work In Restricted Working Space, Add</i>	59.95	
23 21 13 23-0360				<b>Cut And Thread Existing In-Place Black Steel Pipe</b> <small>(23 21 13 23-0014)</small> Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0361	EA			1/2", Cut And Thread Existing In Place Black Steel Pipe.....	45.94	
				<i>For Work In Restricted Working Space, Add</i>	13.78	
23 21 13 23-0362	EA			3/4", Cut And Thread Existing In Place Black Steel Pipe.....	50.53	
				<i>For Work In Restricted Working Space, Add</i>	15.16	
23 21 13 23-0363	EA			1", Cut And Thread Existing In Place Black Steel Pipe.....	55.13	
				<i>For Work In Restricted Working Space, Add</i>	16.54	
23 21 13 23-0364	EA			1-1/4", Cut And Thread Existing In Place Black Steel Pipe.....	59.72	
				<i>For Work In Restricted Working Space, Add</i>	17.92	
23 21 13 23-0365	EA			1-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	62.79	
				<i>For Work In Restricted Working Space, Add</i>	18.84	
23 21 13 23-0366	EA			2", Cut And Thread Existing In Place Black Steel Pipe.....	65.84	
				<i>For Work In Restricted Working Space, Add</i>	19.75	
23 21 13 23-0367	EA			2-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	68.91	
				<i>For Work In Restricted Working Space, Add</i>	20.67	
23 21 13 23-0368	EA			3", Cut And Thread Existing In Place Black Steel Pipe.....	71.97	
				<i>For Work In Restricted Working Space, Add</i>	21.59	
23 21 13 23-0369	EA			4", Cut And Thread Existing In Place Black Steel Pipe.....	75.03	
				<i>For Work In Restricted Working Space, Add</i>	22.51	
23 21 13 23-0370	EA			6", Cut And Thread Existing In Place Black Steel Pipe.....	81.16	
				<i>For Work In Restricted Working Space, Add</i>	24.35	
23 21 13 23-0371	EA			8", Cut And Thread Existing In Place Black Steel Pipe.....	87.28	
				<i>For Work In Restricted Working Space, Add</i>	26.18	
23 21 13 23-0372	EA			10", Cut And Thread Existing In Place Black Steel Pipe.....	94.94	
				<i>For Work In Restricted Working Space, Add</i>	28.48	
23 21 13 23-0373	EA			12", Cut And Thread Existing In Place Black Steel Pipe.....	101.06	
				<i>For Work In Restricted Working Space, Add</i>	30.32	
23 21 13 23-0374				<b>Welded Black Steel Pipe</b> <small>(23 21 13 23)</small>		
23 21 13 23-0375				<b>Welded Plain End Black Steel Pipe Assemblies</b> <small>(23 21 13 23-0374)</small> Note: ASTM A-53 pipe and A-234 WPB fittings. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0376 LF 3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	35.81	10.70
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	7.82	
23 21 13 23-0377 LF 1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	40.64	11.42
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	8.76	
23 21 13 23-0378 LF 1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	49.85	12.13
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	10.05	
23 21 13 23-0379 LF 1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	54.88	12.13
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	10.52	
23 21 13 23-0380 LF 2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	63.28	12.13
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	12.17	
23 21 13 23-0381 LF 2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	73.31	12.13
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	14.11	
23 21 13 23-0382 LF 3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	89.62	11.85
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	14.88	
23 21 13 23-0383 LF 4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	118.13	13.61
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	16.88	
23 21 13 23-0384 LF 6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	168.07	20.28
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	19.43	
23 21 13 23-0385 LF 8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	253.69	25.18
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	28.83	
23 21 13 23-0386 LF 10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	342.02	31.49
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	34.39	
23 21 13 23-0387 LF 12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	435.10	38.04
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	39.73	
23 21 13 23-0388 LF 14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	450.64	49.62
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	44.33	
23 21 13 23-0389 LF 16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	516.34	62.97
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	49.54	
23 21 13 23-0390 LF 18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	666.63	77.96
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	54.35	
23 21 13 23-0391 LF 20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	821.35	96.34
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	62.22	
23 21 13 23-0392 LF 24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	1,021.10	109.19
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	68.41	
23 21 13 23-0393 <b>Welded Black Steel Pipe And Fittings</b> (23 21 13 23-0374)		
Note: ASTM A-53 pipe and A-234 WPB fittings. Excludes hangers or fittings.		
23 21 13 23-0394 <b>Welded Plain End (A-53) Black Steel Piping</b> (23 21 13 23-0393)		
23 21 13 23-0395 LF 3/4" Schedule 40, Welded Plain End Black Steel Pipe .....	17.34	5.71
<i>For Schedule 80 Pipe, Add</i>	2.90	
<i>For Work In Restricted Working Space, Add</i>	3.43	
23 21 13 23-0396 LF 1" Schedule 40, Welded Plain End Black Steel Pipe .....	22.13	7.13
<i>For Schedule 80 Pipe, Add</i>	3.71	
<i>For Work In Restricted Working Space, Add</i>	4.28	
23 21 13 23-0397 LF 1-1/4" Schedule 40, Welded Plain End Black Steel Pipe .....	28.66	8.56
<i>For Schedule 80 Pipe, Add</i>	4.88	
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 21 13 23-0398 LF 1-1/2" Schedule 40, Welded Plain End Black Steel Pipe .....	35.30	9.98
<i>For Schedule 80 Pipe, Add</i>	6.06	
<i>For Work In Restricted Working Space, Add</i>	5.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0399 LF 2" Schedule 40, Welded Plain End Black Steel Pipe .....	42.01	11.85
<i>For Schedule 80 Pipe, Add</i>	7.22	
<i>For Work In Restricted Working Space, Add</i>	7.10	
23 21 13 23-0400 LF 2-1/2" Schedule 40, Welded Plain End Black Steel Pipe .....	48.21	13.41
<i>For Schedule 80 Pipe, Add</i>	12.18	
<i>For Work In Restricted Working Space, Add</i>	8.05	
23 21 13 23-0401 LF 3" Schedule 40, Welded Plain End Black Steel Pipe .....	62.77	14.41
<i>For Schedule 80 Pipe, Add</i>	16.93	
<i>For Work In Restricted Working Space, Add</i>	8.65	
23 21 13 23-0402 LF 4" Schedule 40, Welded Plain End Black Steel Pipe .....	90.08	17.83
<i>For Schedule 80 Pipe, Add</i>	25.29	
<i>For Work In Restricted Working Space, Add</i>	10.70	
23 21 13 23-0403 LF 6" Schedule 40, Welded Plain End Black Steel Pipe .....	135.43	28.89
<i>For Schedule 80 Pipe, Add</i>	39.66	
<i>For Work In Restricted Working Space, Add</i>	13.27	
23 21 13 23-0404 LF 8" Schedule 40, Welded Plain End Black Steel Pipe .....	191.66	27.08
<i>For Schedule 80 Pipe, Add</i>	57.60	
<i>For Schedule 30 Pipe, Deduct</i>	-32.92	
<i>For Work In Restricted Working Space, Add</i>	16.25	
23 21 13 23-0405 LF 10" Schedule 40, Welded Plain End Black Steel Pipe .....	259.86	32.61
<i>For Schedule 80 Pipe, Add</i>	79.53	
<i>For Schedule 30 Pipe, Deduct</i>	-45.45	
<i>For Work In Restricted Working Space, Add</i>	19.57	
23 21 13 23-0406 LF 12" Schedule 40, Welded Plain End Black Steel Pipe .....	336.21	39.42
<i>For Schedule 80 Pipe, Add</i>	103.88	
<i>For Schedule 30 Pipe, Deduct</i>	-59.36	
<i>For Work In Restricted Working Space, Add</i>	23.65	
23 21 13 23-0407 LF 14" Schedule 40, Welded Plain End Black Steel Pipe .....	317.81	41.56
<i>For Schedule 80 Pipe, Add</i>	96.69	
<i>For Schedule 30 Pipe, Deduct</i>	-55.25	
<i>For Schedule 20 Pipe, Deduct</i>	-98.77	
<i>For Work In Restricted Working Space, Add</i>	24.94	
23 21 13 23-0408 LF 16" Schedule 40, Welded Plain End Black Steel Pipe .....	351.75	44.71
<i>For Schedule 80 Pipe, Add</i>	107.46	
<i>For Schedule 30 Pipe, Deduct</i>	-61.41	
<i>For Schedule 20 Pipe, Deduct</i>	-109.70	
<i>For Work In Restricted Working Space, Add</i>	26.83	
23 21 13 23-0409 LF 18" Schedule 40, Welded Plain End Black Steel Pipe .....	460.29	48.36
<i>For Schedule 80 Pipe, Add</i>	144.18	
<i>For Schedule 30 Pipe, Deduct</i>	-82.39	
<i>For Schedule 20 Pipe, Deduct</i>	-146.59	
<i>For Work In Restricted Working Space, Add</i>	29.02	
23 21 13 23-0410 LF 20" Schedule 40, Welded Plain End Black Steel Pipe .....	542.76	57.93
<i>For Schedule 80 Pipe, Add</i>	169.69	
<i>For Work In Restricted Working Space, Add</i>	34.76	
23 21 13 23-0411 LF 24" Schedule 40, Welded Plain End Black Steel Pipe .....	684.72	66.63
<i>For Schedule 80 Pipe, Add</i>	216.34	
<i>For Work In Restricted Working Space, Add</i>	39.97	
<b>23 21 13 23-0412 Welded Plain End (A-106) Seamless Carbon Steel Piping (23 21 13 23-0393)</b>		
23 21 13 23-0413 LF 1/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	12.94	4.00
<i>For Work In Restricted Working Space, Add</i>	2.40	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	3.03	
23 21 13 23-0414 LF 1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	13.24	4.43
<i>For Work In Restricted Working Space, Add</i>	2.61	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	2.98	
23 21 13 23-0415 LF 3/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	16.83	5.71
<i>For Work In Restricted Working Space, Add</i>	3.43	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	3.71	
23 21 13 23-0416 LF 1" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	20.70	7.13
<i>For Work In Restricted Working Space, Add</i>	4.28	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	4.52	
23 21 13 23-0417 LF 1-1/4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	25.93	8.56
<i>For Work In Restricted Working Space, Add</i>	5.14	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	5.83	
23 21 13 23-0418 LF 1-1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	30.28	9.98
<i>For Work In Restricted Working Space, Add</i>	5.99	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	6.81	
23 21 13 23-0419 LF 2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	35.96	11.85
<i>For Work In Restricted Working Space, Add</i>	7.10	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	8.10	
23 21 13 23-0420 LF 2-1/2" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	46.47	13.41
<i>For Work In Restricted Working Space, Add</i>	8.05	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	15.02	
23 21 13 23-0421 LF 3" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	52.86	14.41
<i>For Work In Restricted Working Space, Add</i>	8.65	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	17.79	
23 21 13 23-0422 LF 4" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	65.67	17.83
<i>For Work In Restricted Working Space, Add</i>	10.70	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	22.15	
23 21 13 23-0423 LF 6" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe .....	100.11	28.96
<i>For Work In Restricted Working Space, Add</i>	13.27	
<i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	37.93	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0424	LF	8" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	138.26 16.25 55.22	27.08
23 21	13 23-0425	LF	10" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	185.18 19.57 76.95	32.61
23 21	13 23-0426	LF	12" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	225.68 23.65 94.06	39.42
23 21	13 23-0427	LF	14" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	263.72 24.94 113.60	41.56
23 21	13 23-0428	LF	16" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	303.75 26.83 133.44	44.71
23 21	13 23-0429	LF	18" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	367.12 29.02 165.93	48.36
23 21	13 23-0430	LF	20" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	442.33 34.76 200.20	57.93
23 21	13 23-0431	LF	24" Schedule 40, Welded Plain End (A-106) Seamless, Carbon Steel Pipe..... <i>For Work In Restricted Working Space, Add</i> <i>For Schedule 80 (A-106) Carbon Steel Pipe, Add</i>	556.19 39.97 256.84	66.63
<b>23 21</b>	<b>13 23-0432</b>		<b>Welded Plain End Black Steel 90 Degree Elbows</b> <small>(23 21 13 23-0393)</small>		
23 21	13 23-0433	EA	3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.57 29.61 35.89	79.85
23 21	13 23-0434	EA	1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.85 30.83 37.78	84.00
23 21	13 23-0435	EA	1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.48 34.27 43.07	95.71
23 21	13 23-0436	EA	1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	175.81 36.48 46.46	103.27
23 21	13 23-0437	EA	2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	222.40 45.57 60.44	134.38
23 21	13 23-0438	EA	2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	279.74 57.48 75.55	168.01
23 21	13 23-0439	EA	3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	322.46 66.38 86.73	192.91
23 21	13 23-0440	EA	4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	554.88 113.99 149.92	333.31
23 21	13 23-0441	EA	6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	960.37 201.51 247.43	550.05
23 21	13 23-0442	EA	8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,274.95 275.04 306.98	682.47
23 21	13 23-0443	EA	10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,631.55 366.67 350.83	780.07
23 21	13 23-0444	EA	12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,200.19 499.40 459.03	1,020.61
23 21	13 23-0445	EA	14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,715.63 624.78 542.60	1,206.37
23 21	13 23-0446	EA	16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,353.43 784.27 633.60	1,408.75
23 21	13 23-0447	EA	18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,952.81 938.57 706.51	1,570.84
23 21	13 23-0448	EA	20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,989.07 1,219.45 792.20	1,761.26
23 21	13 23-0449	EA	24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,797.81 1,452.83 818.60	1,820.07
<b>23 21</b>	<b>13 23-0450</b>		<b>Welded Plain End Black Steel Reducing 90 Degree Elbows</b> <small>(23 21 13 23-0393)</small>		
23 21	13 23-0451	EA	4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	727.54 165.69 150.20	333.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0452 EA 6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,259.15 292.13 244.60	543.77
23 21 13 23-0453 EA 6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,335.24 314.96 244.60	543.77
23 21 13 23-0454 EA 8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,959.45 480.39 306.98	682.47
23 21 13 23-0455 EA 8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,140.88 534.82 306.98	682.47
23 21 13 23-0456 EA 10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,665.86 676.97 350.83	780.07
23 21 13 23-0457 EA 10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,665.86 676.97 350.83	780.07
23 21 13 23-0458 EA 12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,337.59 1,137.56 467.78	1,040.01
23 21 13 23-0459 EA 12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,337.59 1,137.56 467.78	1,040.01
23 21 13 23-0460 EA 12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,831.10 1,285.61 467.78	1,040.01
<b>23 21 13 23-0461 Welded Plain End Black Steel 45 Degree Elbows</b> <small>(23 21 13 23-0393)</small>		
23 21 13 23-0462 EA 3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.89 28.63 36.38	80.90
23 21 13 23-0463 EA 1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	142.18 29.47 37.67	83.76
23 21 13 23-0464 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.72 33.08 43.23	96.16
23 21 13 23-0465 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.14 35.31 46.66	103.73
23 21 13 23-0466 EA 2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.80 44.22 60.36	134.13
23 21 13 23-0467 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.90 55.05 75.77	168.51
23 21 13 23-0468 EA 3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	313.42 63.67 86.72	192.77
23 21 13 23-0469 EA 4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	539.86 109.50 149.88	333.16
23 21 13 23-0470 EA 6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	922.82 190.35 247.14	549.48
23 21 13 23-0471 EA 8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,207.03 254.67 306.98	682.47
23 21 13 23-0472 EA 10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,506.85 329.26 350.83	780.07
23 21 13 23-0473 EA 12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,016.52 444.59 458.18	1,018.73
23 21 13 23-0474 EA 14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,473.29 551.82 543.32	1,208.01
23 21 13 23-0475 EA 16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,016.25 683.34 632.94	1,407.24
23 21 13 23-0476 EA 18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,518.94 808.69 705.70	1,568.95
23 21 13 23-0477 EA 20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,355.35 1,029.34 792.20	1,761.26
23 21 13 23-0478 EA 24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,969.60 1,204.37 818.60	1,820.07

23 21 13 23-0479 Welded Plain End Black Steel Tee (23 21 13 23-0393)

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0480 EA 3/4" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	278.47 59.57 68.49	152.24
23 21 13 23-0481 EA 1" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	278.39 59.55 68.47	152.24
23 21 13 23-0482 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	314.35 67.65 76.16	169.37
23 21 13 23-0483 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	345.84 73.79 85.61	190.34
23 21 13 23-0484 EA 2" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	434.46 90.34 114.29	254.11
23 21 13 23-0485 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	494.51 103.41 128.42	285.51
23 21 13 23-0486 EA 3" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	592.92 123.34 155.81	346.72
23 21 13 23-0487 EA 4" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	853.31 177.14 225.29	500.96
23 21 13 23-0488 EA 6" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,426.99 297.82 372.22	827.56
23 21 13 23-0489 EA 8" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,904.14 407.52 467.78	1,040.01
23 21 13 23-0490 EA 10" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,397.39 528.21 545.74	1,213.29
23 21 13 23-0491 EA 12" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,218.38 719.93 701.66	1,560.01
23 21 13 23-0492 EA 14" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,142.72 956.30 818.60	1,820.07
23 21 13 23-0493 EA 16" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,983.91 1,151.36 982.33	2,184.04
23 21 13 23-0494 EA 18" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,430.65 1,547.18 1,091.48	2,426.72
23 21 13 23-0495 EA 20" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,404.13 2,091.47 1,227.91	2,730.11
23 21 13 23-0496 EA 24" Standard Weight, Welded Plain End Black Steel Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,666.26 2,437.05 1,322.36	2,940.12
<b>23 21 13 23-0497 Welded Plain End Black Steel Reducing Tees (23 21 13 23-0393)</b>		
23 21 13 23-0498 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.33 58.18 66.35	147.54
23 21 13 23-0499 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	278.39 59.55 68.47	152.24
23 21 13 23-0500 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	311.15 66.69 76.16	169.37
23 21 13 23-0501 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	342.64 72.83 85.61	190.34
23 21 13 23-0502 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	441.71 92.50 114.33	254.11
23 21 13 23-0503 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	494.69 103.44 128.47	285.65
23 21 13 23-0504 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	593.26 123.45 155.81	346.72
23 21 13 23-0505 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	853.78 177.28 225.29	500.96
23 21 13 23-0506 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,427.80 298.06 372.22	827.56
23 21 13 23-0507 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,905.69 407.99 467.78	1,040.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0508 EA 10" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,400.03 529.00 545.74	1,213.29
23 21 13 23-0509 EA 12" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,222.37 721.13 701.66	1,560.01
23 21 13 23-0510 EA 14" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,149.15 958.23 818.60	1,820.07
23 21 13 23-0511 EA 16" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,991.69 1,153.69 982.33	2,184.04
23 21 13 23-0512 EA 18" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	6,443.37 1,550.99 1,091.48	2,426.72
23 21 13 23-0513 EA 20" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	8,527.71 2,128.54 1,227.91	2,730.11
23 21 13 23-0514 EA 24" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	10,218.24 2,602.64 1,322.36	2,940.12
 <b>23 21 13 23-0515 Welded Plain End Black Steel Eccentric Reducers (23 21 13 23-0393)</b>		
23 21 13 23-0516 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	227.07 53.52 41.73	92.79
23 21 13 23-0517 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	240.61 56.16 45.79	101.82
23 21 13 23-0518 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	237.06 55.46 44.73	99.45
23 21 13 23-0519 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	257.02 59.36 50.72	112.76
23 21 13 23-0520 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	247.03 57.41 47.72	106.10
23 21 13 23-0521 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	243.48 56.72 46.65	103.73
23 21 13 23-0522 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	255.16 55.35 60.56	134.63
23 21 13 23-0523 EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	281.75 64.00 58.63	130.36
23 21 13 23-0524 EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	271.77 62.06 55.64	123.70
23 21 13 23-0525 EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	318.61 68.62 77.04	171.28
23 21 13 23-0526 EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	302.85 66.66 69.12	153.67
23 21 13 23-0527 EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	355.05 83.00 67.19	149.39
23 21 13 23-0528 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	355.93 76.51 86.48	192.20
23 21 13 23-0529 EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	360.71 77.95 86.48	192.20
23 21 13 23-0530 EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	370.84 80.99 86.48	192.20
23 21 13 23-0531 EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	589.10 124.16 150.20	333.88
23 21 13 23-0532 EA 4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	593.89 125.60 150.20	333.88
23 21 13 23-0533 EA 4" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	608.29 129.92 150.20	333.88
23 21 13 23-0534 EA 6" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	997.57 213.66 244.60	543.77
23 21 13 23-0535 EA 6" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,100.94 244.67 244.60	543.77

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0536 EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,473.06 311.64 372.22	827.56
23 21 13 23-0537 EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,665.40 369.34 372.22	827.56
23 21 13 23-0538 EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,731.09 369.51 428.05	951.70
23 21 13 23-0539 EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,962.35 438.89 428.05	951.70
23 21 13 23-0540 EA 10" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,266.60 530.16 -268.72 428.05	951.70
23 21 13 23-0541 EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,031.04 445.90 466.88	1,037.99
23 21 13 23-0542 EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,301.19 526.95 466.88	1,037.99
23 21 13 23-0543 EA 12" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,757.84 663.94 -384.50 466.88	1,037.99
23 21 13 23-0544 EA 12" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,023.38 443.60 -149.47 466.88	1,037.99
23 21 13 23-0545 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,652.49 604.74 545.74	1,213.29
23 21 13 23-0546 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,794.75 647.42 545.74	1,213.29
23 21 13 23-0547 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,213.11 1,072.93 545.74	1,213.29
23 21 13 23-0548 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,321.06 781.43 613.96	1,365.06
23 21 13 23-0549 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,739.89 907.08 613.96	1,365.06
23 21 13 23-0550 EA 16" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3,902.93 955.99 -594.05 613.96	1,365.06
23 21 13 23-0551 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,739.64 1,507.01 613.96	1,365.06
23 21 13 23-0552 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,653.60 1,781.20 613.96	1,365.06
23 21 13 23-0553 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,634.87 1,144.88 701.66	1,560.01
23 21 13 23-0554 EA 18" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,750.58 579.59 -131.74 701.66	1,560.01
23 21 13 23-0555 EA 18" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,854.95 1,210.90 -805.14 701.66	1,560.01
23 21 13 23-0556 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,179.43 1,308.25 701.66	1,560.01
23 21 13 23-0557 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,922.74 2,131.24 701.66	1,560.01
23 21 13 23-0558 EA 20" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,524.39 1,380.05 -922.79 792.20	1,761.26
23 21 13 23-0559 EA 20" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,516.94 1,377.81 -920.41 792.20	1,761.26
23 21 13 23-0560 EA 20" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	9,146.12 2,466.57 -2,081.75 792.20	1,761.26





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0561 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,601.82 2,903.28 792.20	1,761.26
23 21 13 23-0562 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,785.44 3,558.36 792.20	1,761.26
23 21 13 23-0563 EA 24" x 20" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,509.72 1,666.40 -1,209.93 818.60	1,820.07
23 21 13 23-0564 EA 24" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,949.68 1,798.39 -1,350.72 818.60	1,820.07
23 21 13 23-0565 EA 24" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8,993.81 2,411.63 -2,004.84 818.60	1,820.07
23 21 13 23-0566 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,797.75 3,552.81 818.60	1,820.07
23 21 13 23-0567 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,650.01 4,408.49 818.60	1,820.07
<b>23 21 13 23-0568 Welded Plain End Black Steel Concentric Reducers</b> (23 21 13 23-0393)		
23 21 13 23-0569 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	204.04 46.61 41.73	92.79
23 21 13 23-0570 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.58 49.25 45.79	101.82
23 21 13 23-0571 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	214.03 48.55 44.73	99.45
23 21 13 23-0572 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.99 52.45 50.72	112.76
23 21 13 23-0573 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	224.00 50.50 47.72	106.10
23 21 13 23-0574 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	220.45 49.81 46.65	103.73
23 21 13 23-0575 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.43 51.83 60.56	134.63
23 21 13 23-0576 EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	237.00 50.58 58.63	130.36
23 21 13 23-0577 EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.01 53.43 55.64	123.70
23 21 13 23-0578 EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	310.08 66.06 77.04	171.28
23 21 13 23-0579 EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	298.07 65.23 69.12	153.67
23 21 13 23-0580 EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	314.55 70.85 67.19	149.39
23 21 13 23-0581 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	331.41 69.16 86.48	192.20
23 21 13 23-0582 EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	334.61 70.12 86.48	192.20
23 21 13 23-0583 EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	341.54 72.20 86.48	192.20
23 21 13 23-0584 EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	556.07 114.25 150.20	333.88
23 21 13 23-0585 EA 4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	568.33 117.93 150.20	333.88
23 21 13 23-0586 EA 4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	568.33 117.93 150.20	333.88
23 21 13 23-0587 EA 6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer ..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	931.52 193.85 244.60	543.77

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0588 EA 6" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	956.01 201.19 244.60	543.77
23 21 13 23-0589 EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,393.12 287.66 372.22	827.56
23 21 13 23-0590 EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,436.82 300.77 372.22	827.56
23 21 13 23-0591 EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,722.57 366.95 428.05	951.70
23 21 13 23-0592 EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,704.46 361.52 428.05	951.70
23 21 13 23-0593 EA 10" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,932.51 429.93 428.05	951.70
23 21 13 23-0594 EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,921.81 413.13 466.88	1,037.99
23 21 13 23-0595 EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,976.57 429.56 466.88	1,037.99
23 21 13 23-0596 EA 12" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,996.40 435.51 466.88	1,037.99
23 21 13 23-0597 EA 12" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,577.74 609.91 466.88	1,037.99
23 21 13 23-0598 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,369.01 519.70 545.74	1,213.29
23 21 13 23-0599 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,572.02 580.60 545.74	1,213.29
23 21 13 23-0600 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,748.39 633.51 545.74	1,213.29
23 21 13 23-0601 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,430.02 838.00 545.74	1,213.29
23 21 13 23-0602 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,008.82 687.76 613.96	1,365.06
23 21 13 23-0603 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,008.82 687.76 613.96	1,365.06
23 21 13 23-0604 EA 16" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,110.07 718.14 613.96	1,365.06
23 21 13 23-0605 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,446.28 819.00 613.96	1,365.06
23 21 13 23-0606 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,838.72 1,236.73 613.96	1,365.06
23 21 13 23-0607 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,390.16 771.47 701.66	1,560.01
23 21 13 23-0608 EA 18" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,649.66 849.32 701.66	1,560.01
23 21 13 23-0609 EA 18" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,758.36 881.93 701.66	1,560.01
23 21 13 23-0610 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,054.07 970.64 701.66	1,560.01
23 21 13 23-0611 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	7,452.42 1,990.14 701.66	1,560.01
23 21 13 23-0612 EA 20" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,444.85 1,056.19 792.20	1,761.26
23 21 13 23-0613 EA 20" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,444.85 1,056.19 792.20	1,761.26
23 21 13 23-0614 EA 20" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,518.92 1,078.41 792.20	1,761.26
23 21 13 23-0615 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,957.45 1,209.97 792.20	1,761.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0616 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,720.47 1,438.87 792.20	1,761.26
23 21 13 23-0617 EA 24" x 20" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,769.47 1,144.33 818.60	1,820.07
23 21 13 23-0618 EA 24" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,815.81 1,158.23 818.60	1,820.07
23 21 13 23-0619 EA 24" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,906.39 1,185.41 818.60	1,820.07
23 21 13 23-0620 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,003.65 1,814.58 818.60	1,820.07
23 21 13 23-0621 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,417.67 1,938.79 818.60	1,820.07
 <b>23 21 13 23-0622 Welded Plain End Black Steel Caps</b> <small>(23 21 13 23-0393)</small>		
23 21 13 23-0623 EA 1" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.97 15.67 21.40	47.66
23 21 13 23-0624 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.78 17.12 23.54	52.36
23 21 13 23-0625 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	93.29 17.82 24.40	54.22
23 21 13 23-0626 EA 2" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	116.73 22.00 31.25	69.49
23 21 13 23-0627 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.73 25.92 37.67	83.76
23 21 13 23-0628 EA 3" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.13 30.53 43.46	96.59
23 21 13 23-0629 EA 4" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	273.31 50.70 75.10	166.94
23 21 13 23-0630 EA 6" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	457.23 85.47 124.07	275.80
23 21 13 23-0631 EA 8" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	645.18 121.10 173.90	386.67
23 21 13 23-0632 EA 10" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	846.68 162.54 219.51	488.12
23 21 13 23-0633 EA 12" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	905.25 176.39 228.45	507.91
23 21 13 23-0634 EA 14" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,179.78 240.24 272.87	606.65
23 21 13 23-0635 EA 16" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,370.15 279.01 316.88	704.51
23 21 13 23-0636 EA 18" Standard Weight, Welded Plain End Black Steel Cap..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,530.43 312.95 350.83	780.07
 <b>23 21 13 23-0637 150 LB, Welded Plain End Black Steel Neck Flanges</b> <small>(23 21 13 23-0393)</small>		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0638 EA 2", 150 LB, Welded Plain End Black Steel Neck Flange..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	197.30 42.14 48.39	107.58
23 21 13 23-0639 EA 2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	237.26 46.33 60.38	134.27
23 21 13 23-0640 EA 3", 150 LB, Welded Plain End Black Steel Neck Flange..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	266.19 49.40 69.04	153.52
23 21 13 23-0641 EA 4", 150 LB, Welded Plain End Black Steel Neck Flange..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	349.51 64.02 91.08	202.47
23 21 13 23-0642 EA 6", 150 LB, Welded Plain End Black Steel Neck Flange..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	530.93 97.79 138.08	307.06
23 21 13 23-0643 EA 8", 150 LB, Welded Plain End Black Steel Neck Flange..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	553.15 123.92 132.75	295.20

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0644 EA 10", 150 LB, Welded Plain End Black Steel Neck Flange.....	716.68	370.14
For 300 LB Rating, Add	171.46	
For Work In Restricted Working Space, Add	166.50	
23 21 13 23-0645 EA 12", 150 LB, Welded Plain End Black Steel Neck Flange.....	865.45	420.01
For 300 LB Rating, Add	231.14	
For Work In Restricted Working Space, Add	188.91	
23 21 13 23-0646 EA 14", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,119.39	507.91
For 300 LB Rating, Add	330.48	
For Work In Restricted Working Space, Add	228.45	
23 21 13 23-0647 EA 16", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,444.14	590.27
For 300 LB Rating, Add	484.33	
For Work In Restricted Working Space, Add	265.49	
23 21 13 23-0648 EA 18", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,768.51	661.81
For 300 LB Rating, Add	647.57	
For Work In Restricted Working Space, Add	297.68	
23 21 13 23-0649 EA 20", 150 LB, Welded Plain End Black Steel Neck Flange.....	2,242.57	840.01
For 300 LB Rating, Add	820.46	
For Work In Restricted Working Space, Add	377.82	
23 21 13 23-0650 EA 24", 150 LB, Welded Plain End Black Steel Neck Flange.....	2,531.84	910.04
For 300 LB Rating, Add	960.51	
For Work In Restricted Working Space, Add	409.30	
<b>23 21 13 23-0651 150 LB, Welded Black Steel Slip-On Flanges</b> (23 21 13 23-0393)		
Note: Excludes bolt and gasket sets See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
23 21 13 23-0652 EA 2", 150 LB, Welded Black Steel Slip-On Flanges.....	150.39	107.58
For 300 LB Rating, Add	33.26	
For Work In Restricted Working Space, Add	38.53	
23 21 13 23-0653 EA 2-1/2", 150 LB, Welded Black Steel Slip-On Flange.....	185.16	134.27
For 300 LB Rating, Add	41.87	
For Work In Restricted Working Space, Add	47.09	
23 21 13 23-0654 EA 3", 150 LB, Welded Black Steel Slip-On Flange.....	218.69	153.52
For 300 LB Rating, Add	49.36	
For Work In Restricted Working Space, Add	55.65	
23 21 13 23-0655 EA 4", 150 LB, Welded Black Steel Slip-On Flange.....	287.86	202.47
For 300 LB Rating, Add	66.24	
For Work In Restricted Working Space, Add	72.77	
23 21 13 23-0656 EA 6", 150 LB, Welded Black Steel Slip-On Flange.....	426.42	307.06
For 300 LB Rating, Add	100.19	
For Work In Restricted Working Space, Add	107.01	
23 21 13 23-0657 EA 8", 150 LB, Welded Black Steel Slip-On Flange.....	509.06	295.20
For 300 LB Rating, Add	137.76	
For Work In Restricted Working Space, Add	120.90	
23 21 13 23-0658 EA 10", 150 LB, Welded Black Steel Slip-On Flange.....	686.84	370.14
For 300 LB Rating, Add	217.67	
For Work In Restricted Working Space, Add	151.13	
23 21 13 23-0659 EA 12", 150 LB, Welded Black Steel Slip-On Flange.....	893.38	420.01
For 300 LB Rating, Add	323.46	
For Work In Restricted Working Space, Add	181.35	
23 21 13 23-0660 EA 14", 150 LB, Welded Black Steel Slip-On Flange.....	1,127.30	507.91
For 300 LB Rating, Add	453.89	
For Work In Restricted Working Space, Add	211.58	
23 21 13 23-0661 EA 16", 150 LB, Welded Black Steel Slip-On Flange.....	1,349.07	590.27
For 300 LB Rating, Add	593.40	
For Work In Restricted Working Space, Add	234.25	
23 21 13 23-0662 EA 18", 150 LB, Welded Black Steel Slip-On Flange.....	1,493.52	661.81
For 300 LB Rating, Add	663.34	
For Work In Restricted Working Space, Add	256.92	
23 21 13 23-0663 EA 20", 150 LB, Welded Black Steel Slip-On Flange.....	1,656.16	840.01
For 300 LB Rating, Add	749.64	
For Work In Restricted Working Space, Add	279.59	
23 21 13 23-0664 EA 24", 150 LB, Welded Black Steel Slip-On Flange.....	1,896.78	910.04
For 300 LB Rating, Add	846.05	
For Work In Restricted Working Space, Add	324.92	
<b>23 21 13 23-0665 150 LB, Forged Steel Blind Flanges</b> (23 21 13 23-0393)		
23 21 13 23-0666 EA 2", 150 LB, Forged Steel Blind Flange.....	96.91	38.29
For 300 LB Rating, Add	24.30	
For 600 LB Rating, Add	60.26	
For Work In Restricted Working Space, Add	22.98	
23 21 13 23-0667 EA 2-1/2", 150 LB, Forged Steel Blind Flange.....	124.85	45.95
For 300 LB Rating, Add	36.01	
For 600 LB Rating, Add	92.87	
For Work In Restricted Working Space, Add	27.57	
23 21 13 23-0668 EA 3", 150 LB, Forged Steel Blind Flange.....	156.62	61.28
For 300 LB Rating, Add	40.13	
For 600 LB Rating, Add	100.17	
For Work In Restricted Working Space, Add	36.76	
23 21 13 23-0669 EA 4", 150 LB, Forged Steel Blind Flange.....	200.16	76.59
For 300 LB Rating, Add	53.67	
For 600 LB Rating, Add	135.73	
For Work In Restricted Working Space, Add	45.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0670 EA 6", 150 LB, Forged Steel Blind Flange.....	270.31	99.57
<i>For 300 LB Rating, Add</i>	77.85	
<i>For 600 LB Rating, Add</i>	200.70	
<i>For Work In Restricted Working Space, Add</i>	59.74	
23 21 13 23-0671 EA 8", 150 LB, Forged Steel Blind Flange.....	342.69	114.88
<i>For 300 LB Rating, Add</i>	114.46	
<i>For 600 LB Rating, Add</i>	305.47	
<i>For Work In Restricted Working Space, Add</i>	68.93	
23 21 13 23-0672 EA 10", 150 LB, Forged Steel Blind Flange.....	496.22	137.86
<i>For 300 LB Rating, Add</i>	205.35	
<i>For 600 LB Rating, Add</i>	570.56	
<i>For Work In Restricted Working Space, Add</i>	82.72	
23 21 13 23-0673 EA 12", 150 LB, Forged Steel Blind Flange.....	633.76	160.84
<i>For 300 LB Rating, Add</i>	283.45	
<i>For 600 LB Rating, Add</i>	797.27	
<i>For Work In Restricted Working Space, Add</i>	96.50	
23 21 13 23-0674 EA 14", 150 LB, Forged Steel Blind Flange.....	1,010.21	183.82
<i>For 300 LB Rating, Add</i>	552.67	
<i>For Work In Restricted Working Space, Add</i>	110.29	
23 21 13 23-0675 EA 16", 150 LB, Forged Steel Blind Flange.....	1,090.90	206.79
<i>For 300 LB Rating, Add</i>	585.28	
<i>For Work In Restricted Working Space, Add</i>	124.07	
23 21 13 23-0676 EA 18", 150 LB, Forged Steel Blind Flange.....	1,241.15	252.75
<i>For 300 LB Rating, Add</i>	641.60	
<i>For Work In Restricted Working Space, Add</i>	151.65	
23 21 13 23-0677 EA 20", 150 LB, Forged Steel Blind Flange.....	1,558.68	275.72
<i>For 300 LB Rating, Add</i>	863.69	
<i>For Work In Restricted Working Space, Add</i>	165.43	
23 21 13 23-0678 EA 24", 150 LB, Forged Steel Blind Flange.....	2,085.38	321.67
<i>For 300 LB Rating, Add</i>	1,221.18	
<i>For Work In Restricted Working Space, Add</i>	193.01	
<b>23 21 13 23-0679 3,000 LB, Forge Steel Thread-O-Lets (23 21 13 23-0393)</b>		
23 21 13 23-0680 EA 1/2", 3,000 LB, Forge Steel Thread-O-Let.....	96.34	
<i>For Work In Restricted Working Space, Add</i>	26.97	
23 21 13 23-0681 EA 3/4", 3,000 LB, Forge Steel Thread-O-Let.....	101.73	
<i>For Work In Restricted Working Space, Add</i>	28.25	
23 21 13 23-0682 EA 1", 3,000 LB, Forge Steel Thread-O-Let.....	108.36	
<i>For Work In Restricted Working Space, Add</i>	29.96	
23 21 13 23-0683 EA 1-1/4", 3,000 LB, Forge Steel Thread-O-Let.....	119.04	
<i>For Work In Restricted Working Space, Add</i>	32.10	
23 21 13 23-0684 EA 1-1/2", 3,000 LB, Forge Steel Thread-O-Let.....	133.91	
<i>For Work In Restricted Working Space, Add</i>	36.38	
23 21 13 23-0685 EA 2", 3,000 LB, Forge Steel Thread-O-Let.....	173.58	
<i>For Work In Restricted Working Space, Add</i>	47.56	
23 21 13 23-0686 EA 2-1/2", 3,000 LB, Forge Steel Thread-O-Let.....	258.41	
<i>For Work In Restricted Working Space, Add</i>	61.15	
23 21 13 23-0687 EA 3", 3,000 LB, Forge Steel Thread-O-Let.....	357.58	
<i>For Work In Restricted Working Space, Add</i>	85.61	
23 21 13 23-0688 EA 4", 3,000 LB, Forge Steel Thread-O-Let.....	469.56	
<i>For Work In Restricted Working Space, Add</i>	107.01	
<b>23 21 13 23-0689 3,000 LB, Forge Steel Weld-O-Lets (23 21 13 23-0393)</b>		
23 21 13 23-0690 EA 1/2", 3,000 LB, Forge Steel Weld-O-Let.....	118.01	
<i>For Work In Restricted Working Space, Add</i>	31.12	
23 21 13 23-0691 EA 3/4", 3,000 LB, Forge Steel Weld-O-Let.....	125.48	
<i>For Work In Restricted Working Space, Add</i>	32.62	
23 21 13 23-0692 EA 1", 3,000 LB, Forge Steel Weld-O-Let.....	132.95	
<i>For Work In Restricted Working Space, Add</i>	34.25	
23 21 13 23-0693 EA 1-1/4", 3,000 LB, Forge Steel Weld-O-Let.....	153.51	
<i>For Work In Restricted Working Space, Add</i>	38.06	
23 21 13 23-0694 EA 1-1/2", 3,000 LB, Forge Steel Weld-O-Let.....	170.67	
<i>For Work In Restricted Working Space, Add</i>	42.80	
23 21 13 23-0695 EA 2", 3,000 LB, Forge Steel Weld-O-Let.....	227.97	
<i>For Work In Restricted Working Space, Add</i>	57.06	
23 21 13 23-0696 EA 2-1/2", 3,000 LB, Forge Steel Weld-O-Let.....	349.27	
<i>For Work In Restricted Working Space, Add</i>	68.49	
23 21 13 23-0697 EA 3", 3,000 LB, Forge Steel Weld-O-Let.....	459.67	
<i>For Work In Restricted Working Space, Add</i>	89.89	
23 21 13 23-0698 EA 4", 3,000 LB, Forge Steel Weld-O-Let.....	630.65	
<i>For Work In Restricted Working Space, Add</i>	114.16	
23 21 13 23-0699 EA 6", 3,000 LB, Forge Steel Weld-O-Let.....	902.48	
<i>For Work In Restricted Working Space, Add</i>	171.22	
23 21 13 23-0700 EA 8", 3,000 LB, Forge Steel Weld-O-Let.....	1,388.64	
<i>For Work In Restricted Working Space, Add</i>	228.28	
23 21 13 23-0701 EA 10", 3,000 LB, Forge Steel Weld-O-Let.....	1,770.54	
<i>For Work In Restricted Working Space, Add</i>	263.42	
23 21 13 23-0702 EA 12", 3,000 LB, Forge Steel Weld-O-Let.....	2,732.89	
<i>For Work In Restricted Working Space, Add</i>	311.32	
<b>23 21 13 23-0703 3,000 LB, Forge Steel Sock-O-Lets (23 21 13 23-0393)</b>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0704 EA 1/2", 3,000 LB, Forge Steel Sock-O-Let.....	137.61	
For Work In Restricted Working Space, Add	37.20	
23 21 13 23-0705 EA 3/4", 3,000 LB, Forge Steel Sock-O-Let.....	145.97	
For Work In Restricted Working Space, Add	38.99	
23 21 13 23-0706 EA 1", 3,000 LB, Forge Steel Sock-O-Let.....	155.75	
For Work In Restricted Working Space, Add	41.35	
23 21 13 23-0707 EA 1-1/4", 3,000 LB, Forge Steel Sock-O-Let .....	173.10	
For Work In Restricted Working Space, Add	44.30	
23 21 13 23-0708 EA 1-1/2", 3,000 LB, Forge Steel Sock-O-Let .....	194.04	
For Work In Restricted Working Space, Add	50.21	
23 21 13 23-0709 EA 2", 3,000 LB, Forge Steel Sock-O-Let.....	252.06	
For Work In Restricted Working Space, Add	65.62	
23 21 13 23-0710 EA 2-1/2", 3,000 LB, Forge Steel Sock-O-Let .....	396.56	
For Work In Restricted Working Space, Add	84.37	
23 21 13 23-0711 EA 3", 3,000 LB, Forge Steel Sock-O-Let.....	546.39	
For Work In Restricted Working Space, Add	118.14	
23 21 13 23-0712 EA 4", 3,000 LB, Forge Steel Sock-O-Let.....	730.72	
For Work In Restricted Working Space, Add	147.68	
<b>23 21 13 23-0713 Class 150 Flange, Steel Bolt And Gasket Sets (23 21 13 23-0393)</b>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0714 EA 3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set .....	16.01	
Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	4.48	
For Hot Dip Galvanized, Add	6.40	
For Advanced Fluoropolymer (Blue Coating), Add	11.21	
23 21 13 23-0715 EA 2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	20.32	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	5.69	
For Hot Dip Galvanized, Add	8.13	
For Advanced Fluoropolymer (Blue Coating), Add	14.22	
23 21 13 23-0716 EA 2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	20.54	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	5.75	
For Hot Dip Galvanized, Add	8.22	
For Advanced Fluoropolymer (Blue Coating), Add	14.38	
23 21 13 23-0717 EA 3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	20.64	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	5.78	
For Hot Dip Galvanized, Add	8.26	
For Advanced Fluoropolymer (Blue Coating), Add	14.45	
23 21 13 23-0718 EA 4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	46.14	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	12.92	
For Hot Dip Galvanized, Add	18.46	
For Advanced Fluoropolymer (Blue Coating), Add	32.30	
23 21 13 23-0719 EA 5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	65.88	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	18.45	
For Hot Dip Galvanized, Add	26.35	
For Advanced Fluoropolymer (Blue Coating), Add	46.12	
23 21 13 23-0720 EA 6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	71.24	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.95	
For Hot Dip Galvanized, Add	28.50	
For Advanced Fluoropolymer (Blue Coating), Add	49.87	
23 21 13 23-0721 EA 8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	78.10	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	21.87	
For Hot Dip Galvanized, Add	31.24	
For Advanced Fluoropolymer (Blue Coating), Add	54.67	
23 21 13 23-0722 EA 10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	172.64	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	48.34	
For Hot Dip Galvanized, Add	69.06	
For Advanced Fluoropolymer (Blue Coating), Add	120.85	
23 21 13 23-0723 EA 12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	175.98	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	49.27	
For Hot Dip Galvanized, Add	70.39	
For Advanced Fluoropolymer (Blue Coating), Add	123.19	
23 21 13 23-0724 EA 14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	197.37	
Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	55.26	
For Hot Dip Galvanized, Add	78.95	
For Advanced Fluoropolymer (Blue Coating), Add	138.16	
23 21 13 23-0725 EA 16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	327.81	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	91.79	
For Hot Dip Galvanized, Add	131.12	
For Advanced Fluoropolymer (Blue Coating), Add	229.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0726 EA 18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	472.61	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	132.33	
For Hot Dip Galvanized, Add	189.04	
For Advanced Fluoropolymer (Blue Coating), Add	330.83	
23 21 13 23-0727 EA 20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	597.10	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	167.19	
For Hot Dip Galvanized, Add	238.84	
For Advanced Fluoropolymer (Blue Coating), Add	417.97	
23 21 13 23-0728 EA 24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	850.95	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	238.27	
For Hot Dip Galvanized, Add	340.38	
For Advanced Fluoropolymer (Blue Coating), Add	595.67	
23 21 13 23-0729 EA 30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,343.35	
Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	376.14	
For Hot Dip Galvanized, Add	537.34	
For Advanced Fluoropolymer (Blue Coating), Add	940.35	
23 21 13 23-0730 EA 36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,911.60	
Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	535.25	
For Hot Dip Galvanized, Add	764.64	
For Advanced Fluoropolymer (Blue Coating), Add	1,338.12	
<b>23 21 13 23-0731 Class 300 Flange, Steel Bolt And Gasket Sets</b> <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0732 EA 3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	25.69	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	7.19	
For Hot Dip Galvanized, Add	10.28	
For Advanced Fluoropolymer (Blue Coating), Add	17.98	
23 21 13 23-0733 EA 2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	47.10	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	13.19	
For Hot Dip Galvanized, Add	18.84	
For Advanced Fluoropolymer (Blue Coating), Add	32.97	
23 21 13 23-0734 EA 2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	73.28	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	20.52	
For Hot Dip Galvanized, Add	29.31	
For Advanced Fluoropolymer (Blue Coating), Add	51.30	
23 21 13 23-0735 EA 3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	79.62	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	22.29	
For Hot Dip Galvanized, Add	31.85	
For Advanced Fluoropolymer (Blue Coating), Add	55.73	
23 21 13 23-0736 EA 4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	81.28	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	22.76	
For Hot Dip Galvanized, Add	32.51	
For Advanced Fluoropolymer (Blue Coating), Add	56.90	
23 21 13 23-0737 EA 5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	87.54	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	24.51	
For Hot Dip Galvanized, Add	35.02	
For Advanced Fluoropolymer (Blue Coating), Add	61.28	
23 21 13 23-0738 EA 6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	125.89	
Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	35.25	
For Hot Dip Galvanized, Add	50.36	
For Advanced Fluoropolymer (Blue Coating), Add	88.12	
23 21 13 23-0739 EA 8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	195.26	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	54.67	
For Hot Dip Galvanized, Add	78.10	
For Advanced Fluoropolymer (Blue Coating), Add	136.68	
23 21 13 23-0740 EA 10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	356.94	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	99.94	
For Hot Dip Galvanized, Add	142.78	
For Advanced Fluoropolymer (Blue Coating), Add	249.86	
23 21 13 23-0741 EA 12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	514.80	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	144.14	
For Hot Dip Galvanized, Add	205.92	
For Advanced Fluoropolymer (Blue Coating), Add	360.36	
23 21 13 23-0742 EA 14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	704.38	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	197.23	
For Hot Dip Galvanized, Add	281.75	
For Advanced Fluoropolymer (Blue Coating), Add	493.07	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0743	EA	16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	972.13	
			Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	272.20	
			For Hot Dip Galvanized, Add	388.85	
			For Advanced Fluoropolymer (Blue Coating), Add	680.49	
23 21	13 23-0744	EA	18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,248.64	
			Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	349.62	
			For Hot Dip Galvanized, Add	499.46	
			For Advanced Fluoropolymer (Blue Coating), Add	874.05	
23 21	13 23-0745	EA	20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,325.34	
			Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	371.10	
			For Hot Dip Galvanized, Add	530.14	
			For Advanced Fluoropolymer (Blue Coating), Add	927.74	
23 21	13 23-0746	EA	24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,680.55	
			Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut.		
			For Zinc Plated, Add	470.55	
			For Hot Dip Galvanized, Add	672.22	
			For Advanced Fluoropolymer (Blue Coating), Add	1,176.39	
23 21	13 23-0747	EA	30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	2,639.97	
			Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut.		
			For Zinc Plated, Add	739.19	
			For Hot Dip Galvanized, Add	1,055.99	
			For Advanced Fluoropolymer (Blue Coating), Add	1,847.98	
23 21	13 23-0748	EA	36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	4,001.40	
			Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut.		
			For Zinc Plated, Add	1,120.39	
			For Hot Dip Galvanized, Add	1,600.56	
			For Advanced Fluoropolymer (Blue Coating), Add	2,800.98	
23 21	13 23-0749		<b>Class 150 Flange, Stainless Steel Bolt And Gasket Sets</b> <small>(23 21 13 23-0393)</small>		
			Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21	13 23-0750	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set.....	16.01	
			Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.		
23 21	13 23-0751	EA	2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	60.73	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0752	EA	2-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	60.83	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0753	EA	3" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	60.93	
			Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0754	EA	4" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	128.89	
			Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
23 21	13 23-0755	EA	5" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	163.57	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21	13 23-0756	EA	6" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	184.53	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21	13 23-0757	EA	8" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	185.53	
			Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
23 21	13 23-0758	EA	10" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	478.79	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21	13 23-0759	EA	12" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	480.66	
			Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
23 21	13 23-0760	EA	14" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	727.64	
			Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.		
23 21	13 23-0761	EA	16" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	969.38	
			Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
23 21	13 23-0762	EA	18" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	2,519.72	
			Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
23 21	13 23-0763	EA	20" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	2,919.24	
			Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
23 21	13 23-0764	EA	24" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set .....	3,370.42	
			Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
23 21	13 23-0765		<b>150 LB, Rubber Flange Gasket Replacement</b> <small>(23 21 13 23-0393)</small>		
			Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.		
23 21	13 23-0766	EA	1/2", 150 LB, Rubber Flange Gasket Replacement .....	42.92	
			For 300 LB Rating Gasket Set, Add	0.21	
			For 150 LB Rating Teflon Gasket Set, Add	4.72	
			For 300 LB Rating Teflon Gasket Set, Add	5.43	
			For Work In Restricted Working Space, Add	12.69	
23 21	13 23-0767	EA	3/4", 150 LB, Rubber Flange Gasket Replacement .....	45.94	
			For 300 LB Rating Gasket Set, Add	0.28	
			For 150 LB Rating Teflon Gasket Set, Add	6.26	
			For 300 LB Rating Teflon Gasket Set, Add	7.21	
			For Work In Restricted Working Space, Add	13.54	
23 21	13 23-0768	EA	1", 150 LB, Rubber Flange Gasket Replacement .....	50.78	
			For 300 LB Rating Gasket Set, Add	0.50	
			For 150 LB Rating Teflon Gasket Set, Add	10.98	
			For 300 LB Rating Teflon Gasket Set, Add	12.64	
			For Work In Restricted Working Space, Add	14.81	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0769 EA 1-1/4", 150 LB, Rubber Flange Gasket Replacement.....	55.22	
<i>For 300 LB Rating Gasket Set, Add</i>	0.57	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	12.52	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	14.42	
<i>For Work In Restricted Working Space, Add</i>	16.08	
23 21 13 23-0770 EA 1-1/2", 150 LB, Rubber Flange Gasket Replacement.....	61.26	
<i>For 300 LB Rating Gasket Set, Add</i>	0.71	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	15.69	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	18.07	
<i>For Work In Restricted Working Space, Add</i>	17.77	
23 21 13 23-0771 EA 2", 150 LB, Rubber Flange Gasket Replacement.....	67.72	
<i>For 300 LB Rating Gasket Set, Add</i>	0.99	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	21.95	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	25.28	
<i>For Work In Restricted Working Space, Add</i>	19.46	
23 21 13 23-0772 EA 2-1/2", 150 LB, Rubber Flange Gasket Replacement.....	80.01	
<i>For 300 LB Rating Gasket Set, Add</i>	1.35	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	29.76	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	34.27	
<i>For Work In Restricted Working Space, Add</i>	22.85	
23 21 13 23-0773 EA 3", 150 LB, Rubber Flange Gasket Replacement.....	84.85	
<i>For 300 LB Rating Gasket Set, Add</i>	1.56	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	34.48	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	39.69	
<i>For Work In Restricted Working Space, Add</i>	24.12	
23 21 13 23-0774 EA 4", 150 LB, Rubber Flange Gasket Replacement.....	113.08	
<i>For 300 LB Rating Gasket Set, Add</i>	2.56	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	56.43	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	64.97	
<i>For Work In Restricted Working Space, Add</i>	31.73	
23 21 13 23-0775 EA 5", 150 LB, Rubber Flange Gasket Replacement.....	130.82	
<i>For 300 LB Rating Gasket Set, Add</i>	2.84	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	62.69	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	72.18	
<i>For Work In Restricted Working Space, Add</i>	36.81	
23 21 13 23-0776 EA 6", 150 LB, Rubber Flange Gasket Replacement.....	150.17	
<i>For 300 LB Rating Gasket Set, Add</i>	3.69	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	81.47	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	93.81	
<i>For Work In Restricted Working Space, Add</i>	41.89	
23 21 13 23-0777 EA 8", 150 LB, Rubber Flange Gasket Replacement.....	184.65	
<i>For 300 LB Rating Gasket Set, Add</i>	5.39	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	119.04	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	137.06	
<i>For Work In Restricted Working Space, Add</i>	50.78	
23 21 13 23-0778 EA 10", 150 LB, Rubber Flange Gasket Replacement.....	202.43	
<i>For 300 LB Rating Gasket Set, Add</i>	7.66	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	169.21	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	194.82	
<i>For Work In Restricted Working Space, Add</i>	54.16	
23 21 13 23-0779 EA 12", 150 LB, Rubber Flange Gasket Replacement.....	232.47	
<i>For 300 LB Rating Gasket Set, Add</i>	9.79	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	216.13	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	248.84	
<i>For Work In Restricted Working Space, Add</i>	61.35	
23 21 13 23-0780 EA 14", 150 LB, Rubber Flange Gasket Replacement.....	245.01	
<i>For 300 LB Rating Gasket Set, Add</i>	11.70	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	258.49	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	297.62	
<i>For Work In Restricted Working Space, Add</i>	63.47	
23 21 13 23-0781 EA 16", 150 LB, Rubber Flange Gasket Replacement.....	319.37	
<i>For 300 LB Rating Gasket Set, Add</i>	13.05	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	288.25	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	331.88	
<i>For Work In Restricted Working Space, Add</i>	84.62	
23 21 13 23-0782 EA 18", 150 LB, Rubber Flange Gasket Replacement.....	347.77	
<i>For 300 LB Rating Gasket Set, Add</i>	13.62	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	300.77	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	346.30	
<i>For Work In Restricted Working Space, Add</i>	92.66	
23 21 13 23-0783 EA 20", 150 LB, Rubber Flange Gasket Replacement.....	418.28	
<i>For 300 LB Rating Gasket Set, Add</i>	14.61	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	322.65	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	371.49	
<i>For Work In Restricted Working Space, Add</i>	112.96	
<b>23 21 13 23-0784 Cut And Prepare For Welding Existing In-Place Black Steel Pipe (23 21 13 23-0393)</b>		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0785 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	30.63	
<i>For Work In Restricted Working Space, Add</i>	9.19	
23 21 13 23-0786 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	33.08	
<i>For Work In Restricted Working Space, Add</i>	9.92	
23 21 13 23-0787 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	37.21	
<i>For Work In Restricted Working Space, Add</i>	11.16	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0788 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	39.05	
<i>For Work In Restricted Working Space, Add</i>	11.72	
23 21 13 23-0789 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	41.34	
<i>For Work In Restricted Working Space, Add</i>	12.40	
23 21 13 23-0790 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	44.40	
<i>For Work In Restricted Working Space, Add</i>	13.32	
23 21 13 23-0791 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	47.48	
<i>For Work In Restricted Working Space, Add</i>	14.24	
23 21 13 23-0792 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	52.06	
<i>For Work In Restricted Working Space, Add</i>	15.62	
23 21 13 23-0793 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	56.65	
<i>For Work In Restricted Working Space, Add</i>	17.00	
23 21 13 23-0794 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	61.25	
<i>For Work In Restricted Working Space, Add</i>	18.38	
23 21 13 23-0795 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	65.84	
<i>For Work In Restricted Working Space, Add</i>	19.75	
23 21 13 23-0796 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	71.97	
<i>For Work In Restricted Working Space, Add</i>	21.59	
23 21 13 23-0797 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	78.10	
<i>For Work In Restricted Working Space, Add</i>	23.43	
23 21 13 23-0798 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	84.22	
<i>For Work In Restricted Working Space, Add</i>	25.27	
23 21 13 23-0799 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	90.35	
<i>For Work In Restricted Working Space, Add</i>	27.11	
23 21 13 23-0800 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	94.94	
<i>For Work In Restricted Working Space, Add</i>	28.48	
23 21 13 23-0801 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	99.54	
<i>For Work In Restricted Working Space, Add</i>	29.86	
23 21 13 23-0802 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	105.66	
<i>For Work In Restricted Working Space, Add</i>	31.70	
<b>23 21 13 23-0803 Welded Plain End Electric Resistance Black Steel Pipe</b> <small>(23 21 13 23-0393)</small>		
Note: ASTM A-135.		
23 21 13 23-0804 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....	38.15	15.69
<i>For Work In Restricted Working Space, Add</i>	7.71	
23 21 13 23-0805 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....	44.82	17.12
<i>For Work In Restricted Working Space, Add</i>	7.71	
23 21 13 23-0806 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....	48.76	16.83
<i>For Work In Restricted Working Space, Add</i>	7.55	
23 21 13 23-0807 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....	60.56	21.40
<i>For Work In Restricted Working Space, Add</i>	9.62	
23 21 13 23-0808 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....	102.65	31.67
<i>For Work In Restricted Working Space, Add</i>	14.24	
23 21 13 23-0809 LF 8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....	129.50	34.38
<i>For Work In Restricted Working Space, Add</i>	15.49	
23 21 13 23-0810 LF 10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....	179.91	42.82
<i>For Work In Restricted Working Space, Add</i>	19.27	
23 21 13 23-0811 LF 12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....	218.90	51.63
<i>For Work In Restricted Working Space, Add</i>	23.22	
23 21 13 23-0812 LF 14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings .....	278.02	67.00
<i>For Work In Restricted Working Space, Add</i>	30.14	
<b>23 21 13 23-0813 Flanged Steel Fittings</b> <small>(23 21 13 23)</small>		
See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0637 for welded neck flange ends.		
<b>23 21 13 23-0814 Flanged Steel Fittings, Standard Weight</b> <small>(23 21 13 23-0813)</small>		
Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0713 for Class 150 steel bolt and gasket set.		
<b>23 21 13 23-0815 Flanged Steel, 90 Degree Elbows</b> <small>(23 21 13 23-0814)</small>		
23 21 13 23-0816 EA 2" Standard Weight, Flanged Steel, 90 Degree Elbow .....	574.18	65.83
<i>For Galvanized Fittings, Add</i>	380.39	
<i>For Extra Heavy Weight Fittings, Add</i>	570.59	
23 21 13 23-0817 EA 2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow .....	640.41	73.31
<i>For Galvanized Fittings, Add</i>	424.35	
<i>For Extra Heavy Weight Fittings, Add</i>	636.53	
23 21 13 23-0818 EA 3" Standard Weight, Flanged Steel, 90 Degree Elbow .....	637.35	80.92
<i>For Galvanized Fittings, Add</i>	412.89	
<i>For Extra Heavy Weight Fittings, Add</i>	619.33	
23 21 13 23-0819 EA 4" Standard Weight, Flanged Steel, 90 Degree Elbow .....	807.62	94.03
<i>For Galvanized Fittings, Add</i>	533.31	
<i>For Extra Heavy Weight Fittings, Add</i>	799.97	
23 21 13 23-0820 EA 5" Standard Weight, Flanged Steel, 90 Degree Elbow .....	1,125.61	105.31
<i>For Galvanized Fittings, Add</i>	774.16	
<i>For Extra Heavy Weight Fittings, Add</i>	1,161.24	
23 21 13 23-0821 EA 6" Standard Weight, Flanged Steel, 90 Degree Elbow .....	1,191.60	122.23
<i>For Galvanized Fittings, Add</i>	806.66	
<i>For Extra Heavy Weight Fittings, Add</i>	1,209.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0822 EA 8" Standard Weight, Flanged Steel, 90 Degree Elbow .....	1,509.28	135.34
<i>For Galvanized Fittings, Add</i>	1,045.01	
<i>For Extra Heavy Weight Fittings, Add</i>	1,567.51	
<b>23 21 13 23-0823 Flanged Steel, Reducing 90 Degree Elbows (23 21 13 23-0814)</b>		
23 21 13 23-0824 EA 2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	1,064.86	69.65
<i>For Galvanized Fittings, Add</i>	768.42	
<i>For Extra Heavy Weight Fittings, Add</i>	1,152.64	
23 21 13 23-0825 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	1,109.58	77.12
<i>For Galvanized Fittings, Add</i>	795.18	
<i>For Extra Heavy Weight Fittings, Add</i>	1,192.78	
23 21 13 23-0826 EA 4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	1,380.76	87.40
<i>For Galvanized Fittings, Add</i>	999.72	
<i>For Extra Heavy Weight Fittings, Add</i>	1,499.58	
23 21 13 23-0827 EA 5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	1,707.00	93.05
<i>For Galvanized Fittings, Add</i>	1,253.95	
<i>For Extra Heavy Weight Fittings, Add</i>	1,880.93	
23 21 13 23-0828 EA 6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	1,944.61	108.13
<i>For Galvanized Fittings, Add</i>	1,425.98	
<i>For Extra Heavy Weight Fittings, Add</i>	2,138.98	
23 21 13 23-0829 EA 8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	2,709.16	128.85
<i>For Galvanized Fittings, Add</i>	2,012.82	
<i>For Extra Heavy Weight Fittings, Add</i>	3,019.22	
<b>23 21 13 23-0830 Flanged Steel, 45 Degree Elbows (23 21 13 23-0814)</b>		
23 21 13 23-0831 EA 2" Standard Weight, Flanged Steel, 45 Degree Elbow .....	746.21	65.83
<i>For Galvanized Fittings, Add</i>	518.02	
<i>For Extra Heavy Weight Fittings, Add</i>	777.02	
23 21 13 23-0832 EA 2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow .....	779.00	73.31
<i>For Galvanized Fittings, Add</i>	535.22	
<i>For Extra Heavy Weight Fittings, Add</i>	802.84	
23 21 13 23-0833 EA 3" Standard Weight, Flanged Steel, 45 Degree Elbow .....	809.38	80.92
<i>For Galvanized Fittings, Add</i>	550.51	
<i>For Extra Heavy Weight Fittings, Add</i>	825.77	
23 21 13 23-0834 EA 4" Standard Weight, Flanged Steel, 45 Degree Elbow .....	1,008.33	94.03
<i>For Galvanized Fittings, Add</i>	693.88	
<i>For Extra Heavy Weight Fittings, Add</i>	1,040.82	
23 21 13 23-0835 EA 5" Standard Weight, Flanged Steel, 45 Degree Elbow .....	1,450.57	105.31
<i>For Galvanized Fittings, Add</i>	1,034.13	
<i>For Extra Heavy Weight Fittings, Add</i>	1,551.19	
23 21 13 23-0836 EA 6" Standard Weight, Flanged Steel, 45 Degree Elbow .....	1,416.20	122.23
<i>For Galvanized Fittings, Add</i>	986.34	
<i>For Extra Heavy Weight Fittings, Add</i>	1,479.50	
23 21 13 23-0837 EA 8" Standard Weight, Flanged Steel, 45 Degree Elbow .....	1,669.23	135.34
<i>For Galvanized Fittings, Add</i>	1,172.97	
<i>For Extra Heavy Weight Fittings, Add</i>	1,759.45	
<b>23 21 13 23-0838 Flanged Steel, Tees (23 21 13 23-0814)</b>		
23 21 13 23-0839 EA 2" Standard Weight, Flanged Steel, Tee.....	738.21	98.69
<i>For Galvanized Fittings, Add</i>	472.14	
<i>For Extra Heavy Weight Fittings, Add</i>	708.22	
23 21 13 23-0840 EA 2-1/2" Standard Weight, Flanged Steel, Tee .....	951.05	109.97
<i>For Galvanized Fittings, Add</i>	628.89	
<i>For Extra Heavy Weight Fittings, Add</i>	943.33	
23 21 13 23-0841 EA 3" Standard Weight, Flanged Steel, Tee.....	870.03	121.24
<i>For Galvanized Fittings, Add</i>	550.53	
<i>For Extra Heavy Weight Fittings, Add</i>	825.79	
23 21 13 23-0842 EA 4" Standard Weight, Flanged Steel, Tee.....	1,238.87	141.12
<i>For Galvanized Fittings, Add</i>	821.93	
<i>For Extra Heavy Weight Fittings, Add</i>	1,232.89	
23 21 13 23-0843 EA 5" Standard Weight, Flanged Steel, Tee.....	1,833.83	158.04
<i>For Galvanized Fittings, Add</i>	1,277.59	
<i>For Extra Heavy Weight Fittings, Add</i>	1,916.39	
23 21 13 23-0844 EA 6" Standard Weight, Flanged Steel, Tee.....	2,236.90	183.42
<i>For Galvanized Fittings, Add</i>	1,569.60	
<i>For Extra Heavy Weight Fittings, Add</i>	2,354.40	
23 21 13 23-0845 EA 8" Standard Weight, Flanged Steel, Tee.....	2,477.94	212.46
<i>For Galvanized Fittings, Add</i>	1,727.46	
<i>For Extra Heavy Weight Fittings, Add</i>	2,591.18	
<b>23 21 13 23-0846 Flanged Steel, Reducing Tees (23 21 13 23-0814)</b>		
23 21 13 23-0847 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee .....	1,160.45	106.30
<i>For Galvanized Fittings, Add</i>	800.92	
<i>For Extra Heavy Weight Fittings, Add</i>	1,201.38	
23 21 13 23-0848 EA 3" Standard Weight, Flanged Steel, Reducing Tee .....	1,339.86	117.58
<i>For Galvanized Fittings, Add</i>	930.90	
<i>For Extra Heavy Weight Fittings, Add</i>	1,396.36	
23 21 13 23-0849 EA 4" Standard Weight, Flanged Steel, Reducing Tee .....	2,296.94	134.50
<i>For Galvanized Fittings, Add</i>	1,676.27	
<i>For Extra Heavy Weight Fittings, Add</i>	2,514.41	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0850 EA 5" Standard Weight, Flanged Steel, Reducing Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,483.68 1,804.23 2,706.35	152.40
23 21 13 23-0851 EA 6" Standard Weight, Flanged Steel, Reducing Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	3,119.99 2,286.22 3,429.32	174.96
23 21 13 23-0852 EA 8" Standard Weight, Flanged Steel, Reducing Tee..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	3,893.06 2,878.74 4,318.10	196.53
<b>23 21 13 23-0853 Flanged Steel, Concentric Reducers (23 21 13 23-0814)</b>		
23 21 13 23-0854 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,095.25 783.72 1,175.58	77.12
23 21 13 23-0855 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,244.56 890.76 1,336.14	87.40
23 21 13 23-0856 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,843.52 1,355.26 2,032.90	99.67
23 21 13 23-0857 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,033.02 1,496.71 2,245.07	108.13
23 21 13 23-0858 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,381.82 1,750.94 2,626.42	128.85
<b>23 21 13 23-0859 Flanged Steel, Eccentric Reducers (23 21 13 23-0814)</b>		
23 21 13 23-0860 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,184.35 842.59 1,263.89	87.40
23 21 13 23-0861 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,607.92 1,166.78 1,750.18	99.67
<b>23 21 13 23-0862 Plain End Couplings And Fittings (23 21 13 23)</b>		
Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
<b>23 21 13 23-0863 Plain End Piping System Couplings (23 21 13 23-0862)</b>		
<b>23 21 13 23-0864 Plainlock Plain End Piping System Couplings (23 21 13 23-0863)</b>		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0865 EA 1" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	175.31 32.52	8.46
23 21 13 23-0866 EA 1-1/2" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	180.23 32.52	11.70
23 21 13 23-0867 EA 2" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	185.95 32.52	15.51
23 21 13 23-0868 EA 2-1/2" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	190.82 32.52	18.75
23 21 13 23-0869 EA 3" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	225.75 38.38	22.56
23 21 13 23-0870 EA 4" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	311.01 53.18	30.03
23 21 13 23-0871 EA 6" Plainlock Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	522.31 89.80	48.92
<b>23 21 13 23-0872 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0863)</b>		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0873 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	211.82 48.55	11.70
23 21 13 23-0874 EA 2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	217.54 48.55	15.51
23 21 13 23-0875 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	222.42 48.55	18.89
23 21 13 23-0876 EA 3" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	321.49 71.92	22.56
23 21 13 23-0877 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	372.42 83.23	26.37
23 21 13 23-0878 EA 4" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	378.00 83.23	30.03
23 21 13 23-0879 EA 5" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	532.05 118.90	37.64
23 21 13 23-0880 EA 6" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	654.22 145.22	48.92
23 21 13 23-0881 EA 8" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,117.51 257.51	58.36
23 21 13 23-0882 EA 10" Roust-A-Bout Plain End Piping System Coupling..... <i>For Galvanized Fittings, Add</i>	1,443.70 335.01	69.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0883 EA 12" Roust-A-Bout Plain End Piping System Coupling.....	1,804.15	81.77
<i>For Galvanized Fittings, Add</i>	420.37	
23 21 13 23-0884 EA 14" Roust-A-Bout Plain End Piping System Coupling.....	2,523.28	90.37
<i>For Galvanized Fittings, Add</i>	596.93	
23 21 13 23-0885 EA 16" Roust-A-Bout Plain End Piping System Coupling.....	3,423.03	102.21
<i>For Galvanized Fittings, Add</i>	817.45	
<b>23 21 13 23-0886 Plain End Piping System Fittings</b> <small>(23 21 13 23-0862)</small>		
Note: Cast ductile iron bodies.		
<b>23 21 13 23-0887 Plain End Piping System, 90 Degree Elbows</b> <small>(23 21 13 23-0886)</small>		
23 21 13 23-0888 EA 1" Plain End Piping System, 90 Degree Elbow.....	176.55	15.37
<i>For Galvanized Fittings, Add</i>	30.70	
23 21 13 23-0889 EA 1-1/2" Plain End Piping System, 90 Degree Elbow.....	188.40	23.26
<i>For Galvanized Fittings, Add</i>	30.70	
23 21 13 23-0890 EA 2" Plain End Piping System, 90 Degree Elbow.....	199.59	30.73
<i>For Galvanized Fittings, Add</i>	30.70	
23 21 13 23-0891 EA 2-1/2" Plain End Piping System, 90 Degree Elbow.....	209.63	37.50
<i>For Galvanized Fittings, Add</i>	30.70	
23 21 13 23-0892 EA 3" Plain End Piping System, 90 Degree Elbow.....	252.42	45.39
<i>For Galvanized Fittings, Add</i>	36.88	
23 21 13 23-0893 EA 4" Plain End Piping System, 90 Degree Elbow.....	358.58	59.77
<i>For Galvanized Fittings, Add</i>	53.78	
23 21 13 23-0894 EA 5" Plain End Piping System, 90 Degree Elbow.....	1,042.97	74.87
<i>For Galvanized Fittings, Add</i>	186.15	
23 21 13 23-0895 EA 6" Plain End Piping System, 90 Degree Elbow.....	886.94	97.98
<i>For Galvanized Fittings, Add</i>	148.02	
23 21 13 23-0896 EA 8" Plain End Piping System, 90 Degree Elbow.....	1,737.60	116.30
<i>For Galvanized Fittings, Add</i>	312.62	
23 21 13 23-0897 EA 10" Plain End Piping System, 90 Degree Elbow.....	2,168.34	135.90
<i>For Galvanized Fittings, Add</i>	392.92	
23 21 13 23-0898 EA 12" Plain End Piping System, 90 Degree Elbow.....	2,746.15	163.26
<i>For Galvanized Fittings, Add</i>	500.28	
<b>23 21 13 23-0899 Plain End Piping System, 45 Degree Elbows</b> <small>(23 21 13 23-0886)</small>		
23 21 13 23-0900 EA 1" Plain End Piping System, 45 Degree Elbow.....	176.55	15.37
<i>For Galvanized Fittings, Add</i>	30.70	
23 21 13 23-0901 EA 1-1/2" Plain End Piping System, 45 Degree Elbow.....	188.40	23.26
<i>For Galvanized Fittings, Add</i>	30.70	
23 21 13 23-0902 EA 2" Plain End Piping System, 45 Degree Elbow.....	199.59	30.73
<i>For Galvanized Fittings, Add</i>	30.70	
23 21 13 23-0903 EA 2-1/2" Plain End Piping System, 45 Degree Elbow.....	209.63	37.50
<i>For Galvanized Fittings, Add</i>	30.70	
23 21 13 23-0904 EA 3" Plain End Piping System, 45 Degree Elbow.....	252.42	45.39
<i>For Galvanized Fittings, Add</i>	36.88	
23 21 13 23-0905 EA 4" Plain End Piping System, 45 Degree Elbow.....	358.58	59.77
<i>For Galvanized Fittings, Add</i>	53.78	
23 21 13 23-0906 EA 5" Plain End Piping System, 45 Degree Elbow.....	1,042.97	74.87
<i>For Galvanized Fittings, Add</i>	186.15	
23 21 13 23-0907 EA 6" Plain End Piping System, 45 Degree Elbow.....	889.78	97.98
<i>For Galvanized Fittings, Add</i>	148.59	
23 21 13 23-0908 EA 8" Plain End Piping System, 45 Degree Elbow.....	1,033.36	116.30
<i>For Galvanized Fittings, Add</i>	171.78	
23 21 13 23-0909 EA 10" Plain End Piping System, 45 Degree Elbow.....	1,402.35	135.90
<i>For Galvanized Fittings, Add</i>	239.72	
23 21 13 23-0910 EA 12" Plain End Piping System, 45 Degree Elbow.....	1,793.23	163.26
<i>For Galvanized Fittings, Add</i>	309.69	
<b>23 21 13 23-0911 Plain End Piping System, Tees</b> <small>(23 21 13 23-0886)</small>		
23 21 13 23-0912 EA 1" Plain End Piping System, Tee.....	241.61	23.26
<i>For Galvanized Fittings, Add</i>	41.34	
23 21 13 23-0913 EA 1-1/2" Plain End Piping System, Tee.....	259.09	34.96
<i>For Galvanized Fittings, Add</i>	41.34	
23 21 13 23-0914 EA 2" Plain End Piping System, Tee.....	274.50	45.25
<i>For Galvanized Fittings, Add</i>	41.34	
23 21 13 23-0915 EA 2-1/2" Plain End Piping System, Tee.....	289.84	55.41
<i>For Galvanized Fittings, Add</i>	41.34	
23 21 13 23-0916 EA 3" Plain End Piping System, Tee.....	399.65	68.10
<i>For Galvanized Fittings, Add</i>	59.50	
23 21 13 23-0917 EA 4" Plain End Piping System, Tee.....	545.72	88.11
<i>For Galvanized Fittings, Add</i>	82.74	
23 21 13 23-0918 EA 5" Plain End Piping System, Tee.....	1,081.59	115.18
<i>For Galvanized Fittings, Add</i>	181.76	
23 21 13 23-0919 EA 6" Plain End Piping System, Tee.....	1,337.89	144.22
<i>For Galvanized Fittings, Add</i>	224.33	
23 21 13 23-0920 EA 8" Plain End Piping System, Tee.....	1,817.19	175.38
<i>For Galvanized Fittings, Add</i>	310.83	
23 21 13 23-0921 EA 10" Plain End Piping System, Tee.....	2,679.83	204.42
<i>For Galvanized Fittings, Add</i>	474.67	
23 21 13 23-0922 EA 12" Plain End Piping System, Tee.....	3,577.75	244.89
<i>For Galvanized Fittings, Add</i>	642.12	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0923			<b>Plain End Piping System, Reducing Tees</b> (23 21 13 23-0886)		
23 21 13 23-0924	EA		1-1/2" Plain End Piping System, Reducing Tee.....	464.78	37.50
			<i>For Galvanized Fittings, Add</i>	81.72	
23 21 13 23-0925	EA		2" Plain End Piping System, Reducing Tee.....	476.38	45.25
			<i>For Galvanized Fittings, Add</i>	81.72	
23 21 13 23-0926	EA		2-1/2" Plain End Piping System, Reducing Tee.....	491.72	55.41
			<i>For Galvanized Fittings, Add</i>	81.72	
23 21 13 23-0927	EA		3" Plain End Piping System, Reducing Tee.....	510.76	68.10
			<i>For Galvanized Fittings, Add</i>	81.72	
23 21 13 23-0928	EA		4" Plain End Piping System, Reducing Tee.....	735.22	88.11
			<i>For Galvanized Fittings, Add</i>	120.64	
23 21 13 23-0929	EA		6" Plain End Piping System, Reducing Tee.....	1,240.57	144.22
			<i>For Galvanized Fittings, Add</i>	204.87	
23 21 13 23-0930	EA		8" Plain End Piping System, Reducing Tee.....	1,612.03	175.38
			<i>For Galvanized Fittings, Add</i>	269.80	
23 21 13 23-0931	EA		10" Plain End Piping System, Reducing Tee.....	2,386.18	204.42
			<i>For Galvanized Fittings, Add</i>	415.94	
23 21 13 23-0932	EA		12" Plain End Piping System, Reducing Tee.....	3,493.72	244.89
			<i>For Galvanized Fittings, Add</i>	625.32	
23 21 13 23-0933			<b>Plain End Piping System, Wyes</b> (23 21 13 23-0886)		
23 21 13 23-0934	EA		2" Plain End Piping System, Wye.....	673.28	45.25
			<i>For Galvanized Fittings, Add</i>	121.10	
23 21 13 23-0935	EA		2-1/2" Plain End Piping System, Wye.....	688.62	55.41
			<i>For Galvanized Fittings, Add</i>	121.10	
23 21 13 23-0936	EA		3" Plain End Piping System, Wye.....	782.78	68.10
			<i>For Galvanized Fittings, Add</i>	136.12	
23 21 13 23-0937	EA		4" Plain End Piping System, Wye.....	1,142.26	88.11
			<i>For Galvanized Fittings, Add</i>	202.05	
23 21 13 23-0938	EA		5" Plain End Piping System, Wye.....	1,402.13	115.18
			<i>For Galvanized Fittings, Add</i>	245.87	
23 21 13 23-0939	EA		6" Plain End Piping System, Wye.....	1,909.10	144.22
			<i>For Galvanized Fittings, Add</i>	338.57	
23 21 13 23-0940	EA		8" Plain End Piping System, Wye.....	2,455.41	175.38
			<i>For Galvanized Fittings, Add</i>	438.48	
23 21 13 23-0941	EA		10" Plain End Piping System, Wye.....	3,539.42	204.42
			<i>For Galvanized Fittings, Add</i>	646.59	
23 21 13 23-0942	EA		12" Plain End Piping System, Wye.....	5,351.00	244.89
			<i>For Galvanized Fittings, Add</i>	996.77	
23 21 13 23-0943			<b>Plain End Piping System, Laterals</b> (23 21 13 23-0886)		
23 21 13 23-0944	EA		2" Plain End Piping System, Lateral.....	716.10	45.25
			<i>For Galvanized Fittings, Add</i>	129.66	
23 21 13 23-0945	EA		2-1/2" Plain End Piping System, Lateral.....	731.44	55.41
			<i>For Galvanized Fittings, Add</i>	129.66	
23 21 13 23-0946	EA		3" Plain End Piping System, Lateral.....	825.32	68.10
			<i>For Galvanized Fittings, Add</i>	144.63	
23 21 13 23-0947	EA		4" Plain End Piping System, Lateral.....	1,223.50	88.11
			<i>For Galvanized Fittings, Add</i>	218.30	
23 21 13 23-0948	EA		5" Plain End Piping System, Lateral.....	1,595.61	115.18
			<i>For Galvanized Fittings, Add</i>	284.57	
23 21 13 23-0949	EA		6" Plain End Piping System, Lateral.....	2,033.59	144.22
			<i>For Galvanized Fittings, Add</i>	363.47	
23 21 13 23-0950	EA		8" Plain End Piping System, Lateral.....	2,912.67	175.38
			<i>For Galvanized Fittings, Add</i>	529.93	
23 21 13 23-0951	EA		10" Plain End Piping System, Lateral.....	4,046.76	204.42
			<i>For Galvanized Fittings, Add</i>	748.06	
23 21 13 23-0952	EA		12" Plain End Piping System, Lateral.....	5,426.40	244.89
			<i>For Galvanized Fittings, Add</i>	1,011.85	
23 21 13 23-0953			<b>Plain End Piping System, Crosses</b> (23 21 13 23-0886)		
23 21 13 23-0954	EA		2" Plain End Piping System, Cross.....	805.52	67.82
			<i>For Galvanized Fittings, Add</i>	87.99	
23 21 13 23-0955	EA		2-1/2" Plain End Piping System, Cross.....	828.49	83.04
			<i>For Galvanized Fittings, Add</i>	87.99	
23 21 13 23-0956	EA		3" Plain End Piping System, Cross.....	969.73	102.21
			<i>For Galvanized Fittings, Add</i>	102.06	
23 21 13 23-0957	EA		4" Plain End Piping System, Cross.....	1,319.67	132.10
			<i>For Galvanized Fittings, Add</i>	140.21	
23 21 13 23-0958	EA		5" Plain End Piping System, Cross.....	1,852.30	172.84
			<i>For Galvanized Fittings, Add</i>	199.14	
23 21 13 23-0959	EA		6" Plain End Piping System, Cross.....	2,426.95	215.70
			<i>For Galvanized Fittings, Add</i>	262.95	
23 21 13 23-0960	EA		8" Plain End Piping System, Cross.....	3,090.33	261.24
			<i>For Galvanized Fittings, Add</i>	337.34	
23 21 13 23-0961	EA		10" Plain End Piping System, Cross.....	4,395.34	305.36
			<i>For Galvanized Fittings, Add</i>	492.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0962 EA 12" Plain End Piping System, Cross..... <i>For Galvanized Fittings, Add</i>	6,228.41 709.71	367.40
<b>23 21 13 23-0963 Plain End Piping System, Adapter Nipples (23 21 13 23-0886)</b> Note: Plain to threaded, plain to beveled or plain to grooved.		
23 21 13 23-0964 EA 1" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	77.30 16.15	8.46
23 21 13 23-0965 EA 1-1/2" Plain End Piping System, Adapter Nipple ..... <i>For Galvanized Fittings, Add</i>	84.01 16.60	11.70
23 21 13 23-0966 EA 2" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	89.58 16.60	15.51
23 21 13 23-0967 EA 2-1/2" Plain End Piping System, Adapter Nipple ..... <i>For Galvanized Fittings, Add</i>	105.98 19.45	18.75
23 21 13 23-0968 EA 3" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	129.95 24.03	22.56
23 21 13 23-0969 EA 4" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	205.83 40.18	30.03
23 21 13 23-0970 EA 6" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	491.04 108.66	37.64
<b>23 21 13 23-0971 Plain End Piping System, Reducing (Swaged) Nipples (23 21 13 23-0886)</b>		
23 21 13 23-0972 EA 1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	247.46 54.29	20.16
23 21 13 23-0973 EA 2" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	253.12 54.29	23.96
23 21 13 23-0974 EA 2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	258.81 54.29	27.77
23 21 13 23-0975 EA 2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	257.43 54.29	26.93
23 21 13 23-0976 EA 2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple ..... <i>For Galvanized Fittings, Add</i>	262.98 54.29	30.59
23 21 13 23-0977 EA 2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	268.61 54.29	34.26
23 21 13 23-0978 EA 3" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	310.90 66.12	31.01
23 21 13 23-0979 EA 3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	315.92 66.12	34.26
23 21 13 23-0980 EA 3" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	260.53 50.85	38.06
23 21 13 23-0981 EA 3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	271.44 50.85	45.39
23 21 13 23-0982 EA 3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	316.50 60.81	48.92
23 21 13 23-0983 EA 4" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	429.67 92.97	38.48
23 21 13 23-0984 EA 4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	434.61 92.97	41.87
23 21 13 23-0985 EA 4" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	350.05 70.40	45.67
23 21 13 23-0986 EA 4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	354.89 70.40	48.92
23 21 13 23-0987 EA 4" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	360.64 70.40	52.72
23 21 13 23-0988 EA 4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	366.13 70.40	56.39
23 21 13 23-0989 EA 5" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,115.32 258.90	53.15
23 21 13 23-0990 EA 5" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	889.46 199.83	60.05
23 21 13 23-0991 EA 5" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	759.34 164.44	67.82
23 21 13 23-0992 EA 6" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	2,059.19 493.31	57.38
23 21 13 23-0993 EA 6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	2,064.05 493.31	60.63
23 21 13 23-0994 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,556.03 364.87	64.43
23 21 13 23-0995 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,561.03 364.87	67.82
23 21 13 23-0996 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,052.97 236.46	71.48
23 21 13 23-0997 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,058.09 236.46	74.87
23 21 13 23-0998 EA 6" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	835.61 179.33	78.95
23 21 13 23-0999 EA 6" x 5" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	952.04 205.62	86.42
23 21 13 23-1000 EA 8" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,261.81 285.17	80.78
23 21 13 23-1001 EA 8" x 4" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	1,273.19 285.17	88.39

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1002 EA 8" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....	1,441.54	96.01
For Galvanized Fittings, Add	324.42	
23 21 13 23-1003 EA 8" x 6" Plain End Piping System, Reducing (Swaged) Nipple.....	1,615.54	107.28
For Galvanized Fittings, Add	363.65	
<b>23 21 13 23-1004 Plain End Piping System, Bull Plugs (23 21 13 23-0886)</b>		
23 21 13 23-1005 EA 1" Plain End Piping System, Bull Plug.....	346.46	8.46
For Galvanized Fittings, Add	100.13	
23 21 13 23-1006 EA 1-1/2" Plain End Piping System, Bull Plug.....	351.39	11.70
For Galvanized Fittings, Add	100.13	
23 21 13 23-1007 EA 2" Plain End Piping System, Bull Plug.....	356.96	15.51
For Galvanized Fittings, Add	100.13	
23 21 13 23-1008 EA 2-1/2" Plain End Piping System, Bull Plug.....	361.97	18.75
For Galvanized Fittings, Add	100.13	
23 21 13 23-1009 EA 3" Plain End Piping System, Bull Plug.....	523.10	22.56
For Galvanized Fittings, Add	146.78	
23 21 13 23-1010 EA 4" Plain End Piping System, Bull Plug.....	677.07	30.03
For Galvanized Fittings, Add	189.59	
23 21 13 23-1011 EA 5" Plain End Piping System, Bull Plug.....	1,173.20	37.64
For Galvanized Fittings, Add	335.05	
23 21 13 23-1012 EA 6" Plain End Piping System, Bull Plug.....	1,562.87	48.92
For Galvanized Fittings, Add	446.87	
23 21 13 23-1013 EA 8" Plain End Piping System, Bull Plug.....	2,887.83	58.22
For Galvanized Fittings, Add	840.13	
23 21 13 23-1014 EA 10" Plain End Piping System, Bull Plug.....	5,185.89	68.10
For Galvanized Fittings, Add	1,525.12	
23 21 13 23-1015 EA 12" Plain End Piping System, Bull Plug.....	7,940.51	81.77
For Galvanized Fittings, Add	2,345.36	
<b>23 21 13 23-1016 Carbon Steel Piping Systems (23 21 13 23)</b>		
<b>23 21 13 23-1017 Class 3,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-1016)</b>		
Note: ASTM A105		
<b>23 21 13 23-1018 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b>		
23 21 13 23-1019 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	56.70	27.91
23 21 13 23-1020 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.82	31.15
23 21 13 23-1021 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	83.68	34.82
23 21 13 23-1022 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	117.76	39.48
23 21 13 23-1023 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	134.91	44.41
23 21 13 23-1024 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	184.91	56.53
23 21 13 23-1025 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	379.64	83.60
23 21 13 23-1026 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	544.52	109.97
23 21 13 23-1027 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	968.11	108.05
<b>23 21 13 23-1028 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b>		
23 21 13 23-1029 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	63.28	27.91
23 21 13 23-1030 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	73.77	31.15
23 21 13 23-1031 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	86.74	34.82
23 21 13 23-1032 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	121.64	39.48
23 21 13 23-1033 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	144.20	44.41
23 21 13 23-1034 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	184.72	56.53
23 21 13 23-1035 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	436.46	83.60
23 21 13 23-1036 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	592.59	109.97
23 21 13 23-1037 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	947.31	108.05
<b>23 21 13 23-1038 Straight Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b>		
23 21 13 23-1039 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	69.19	34.82
23 21 13 23-1040 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	84.74	40.18
23 21 13 23-1041 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	114.55	47.51
23 21 13 23-1042 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	155.35	56.53
23 21 13 23-1043 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	188.70	67.39
23 21 13 23-1044 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	252.53	83.60
23 21 13 23-1045 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	471.16	109.97
23 21 13 23-1046 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	655.69	130.54
23 21 13 23-1047 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	1,284.96	136.41
<b>23 21 13 23-1048 Reducing Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1017)</b>		
23 21 13 23-1049 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	70.99	34.82
23 21 13 23-1050 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	86.60	40.18
23 21 13 23-1051 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	116.78	47.51
23 21 13 23-1052 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	160.63	56.53
23 21 13 23-1053 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	194.89	67.39
23 21 13 23-1054 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	262.04	83.60
23 21 13 23-1055 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	493.75	109.97
23 21 13 23-1056 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	688.21	130.54
23 21 13 23-1057 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	1,169.23	136.41





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-1058 Straight Couplings, 3,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-1017)</small>						
	23 21	13	23-1059	EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	48.59	27.91
	23 21	13	23-1060	EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	54.84	31.15
	23 21	13	23-1061	EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	64.61	34.82
	23 21	13	23-1062	EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	74.73	39.48
	23 21	13	23-1063	EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	87.66	44.41
	23 21	13	23-1064	EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	115.37	56.53
	23 21	13	23-1065	EA 2-1/2" Coupling, Straight, Carbon Steel, Socket, Weld, 3,000 LB.....	202.49	83.60
	23 21	13	23-1066	EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	271.33	109.97
	23 21	13	23-1067	EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	374.28	108.05
<b>23 21 13 23-1068 Reducing Couplings, 3,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-1017)</small>						
	23 21	13	23-1069	EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	52.26	27.91
	23 21	13	23-1070	EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	58.87	31.15
	23 21	13	23-1071	EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	71.05	34.82
	23 21	13	23-1072	EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	82.51	39.48
	23 21	13	23-1073	EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	99.21	44.41
	23 21	13	23-1074	EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	127.71	56.53
	23 21	13	23-1075	EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	229.68	83.60
	23 21	13	23-1076	EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	326.02	109.97
	23 21	13	23-1077	EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	487.96	108.05
<b>23 21 13 23-1078 Caps, 3,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-1017)</small>						
	23 21	13	23-1079	EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	30.36	13.11
	23 21	13	23-1080	EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	35.02	13.96
	23 21	13	23-1081	EA 1" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	41.20	16.07
	23 21	13	23-1082	EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	48.41	17.48
	23 21	13	23-1083	EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	56.59	17.48
	23 21	13	23-1084	EA 2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	73.47	22.41
	23 21	13	23-1085	EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	135.45	27.91
	23 21	13	23-1086	EA 3" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	198.12	33.70
	23 21	13	23-1087	EA 4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	285.63	36.98
<b>23 21 13 23-1088 Black Cast Iron Square Head Plug</b> <small>(23 21 13 23-1017)</small>						
	23 21	13	23-1089	EA 1/2" Square Head Plug, Black, Cast Iron.....	18.96	11.14
	23 21	13	23-1090	EA 3/4" Square Head Plug, Black, Cast Iron.....	22.45	11.14
	23 21	13	23-1091	EA 1" Square Head Plug, Black, Cast Iron.....	31.76	16.91
	23 21	13	23-1092	EA 1-1/4" Square Head Plug, Black, Cast Iron.....	32.46	16.91
	23 21	13	23-1093	EA 1-1/2" Square Head Plug, Black, Cast Iron.....	35.36	16.91
	23 21	13	23-1094	EA 2" Square Head Plug, Black, Cast Iron.....	46.78	22.41
	23 21	13	23-1095	EA 2-1/2" Square Head Plug, Black, Cast Iron.....	60.75	27.91
	23 21	13	23-1096	EA 3" Square Head Plug, Black, Cast Iron.....	81.00	33.70
	23 21	13	23-1097	EA 4" Square Head Plug, Black, Cast Iron.....	91.28	36.98
<b>23 21 13 23-1098 Unions, 3,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-1017)</small>						
	23 21	13	23-1099	EA 1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	90.44	34.82
	23 21	13	23-1100	EA 3/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	99.46	40.18
	23 21	13	23-1101	EA 1" Union, Carbon Steel, Socket Weld, 3,000 LB.....	128.52	47.51
	23 21	13	23-1102	EA 1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	163.79	56.53
	23 21	13	23-1103	EA 1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	197.61	67.39
	23 21	13	23-1104	EA 2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	247.33	83.60
	23 21	13	23-1105	EA 2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	448.66	90.79
	23 21	13	23-1106	EA 3" Union, Carbon Steel, Socket Weld, 3,000 LB.....	607.73	109.97
<b>23 21 13 23-1107 Class 6,000 LB Carbon Steel Socket Weld Fittings</b> <small>(23 21 13 23-1016)</small>						
Note: ASTM A105						
<b>23 21 13 23-1108 90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-1107)</small>						
	23 21	13	23-1109	EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	64.63	27.91
	23 21	13	23-1110	EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	72.88	31.15
	23 21	13	23-1111	EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	100.39	34.82
	23 21	13	23-1112	EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	148.91	39.48
	23 21	13	23-1113	EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	171.16	44.41
	23 21	13	23-1114	EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	238.15	56.53
	23 21	13	23-1115	EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	514.72	83.60
	23 21	13	23-1116	EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	746.14	109.97
	23 21	13	23-1117	EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	1,396.28	108.05
<b>23 21 13 23-1118 45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-1107)</small>						
	23 21	13	23-1119	EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	75.46	27.91
	23 21	13	23-1120	EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	89.07	31.15
	23 21	13	23-1121	EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	106.28	34.82

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1122 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	157.05	39.48
23 21 13 23-1123 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	188.10	44.41
23 21 13 23-1124 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	241.37	56.53
23 21 13 23-1125 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	612.64	83.60
23 21 13 23-1126 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	834.76	109.97
23 21 13 23-1127 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	1,392.00	108.05
<b>23 21 13 23-1128 Straight Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>		
23 21 13 23-1129 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	84.90	34.82
23 21 13 23-1130 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	107.43	40.18
23 21 13 23-1131 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	154.70	47.51
23 21 13 23-1132 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	220.81	56.53
23 21 13 23-1133 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	269.87	67.39
23 21 13 23-1134 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	370.36	83.60
23 21 13 23-1135 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	754.83	109.97
23 21 13 23-1136 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	1,081.62	130.54
23 21 13 23-1137 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	2,285.65	136.41
<b>23 21 13 23-1138 Reducing Tees, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>		
23 21 13 23-1139 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	70.99	34.82
23 21 13 23-1140 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	86.60	40.18
23 21 13 23-1141 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	116.78	47.51
23 21 13 23-1142 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	160.63	56.53
23 21 13 23-1143 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	194.89	67.39
23 21 13 23-1144 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	262.04	83.60
23 21 13 23-1145 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	493.75	109.97
23 21 13 23-1146 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	688.21	130.54
23 21 13 23-1147 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	1,169.23	136.41
<b>23 21 13 23-1148 Straight Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>		
23 21 13 23-1149 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	51.89	27.91
23 21 13 23-1150 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	58.74	31.15
23 21 13 23-1151 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	70.59	34.82
23 21 13 23-1152 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	82.28	39.48
23 21 13 23-1153 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	97.82	44.41
23 21 13 23-1154 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	130.21	56.53
23 21 13 23-1155 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	239.82	83.60
23 21 13 23-1156 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	322.81	109.97
23 21 13 23-1157 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	476.97	108.05
<b>23 21 13 23-1158 Reducing Couplings, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>		
23 21 13 23-1159 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	57.30	27.91
23 21 13 23-1160 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	64.68	31.15
23 21 13 23-1161 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	80.09	34.82
23 21 13 23-1162 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	93.74	39.48
23 21 13 23-1163 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	114.83	44.41
23 21 13 23-1164 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	148.37	56.53
23 21 13 23-1165 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	279.78	83.60
23 21 13 23-1166 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	403.37	109.97
23 21 13 23-1167 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	644.45	108.05
<b>23 21 13 23-1168 Caps, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1107)</b>		
23 21 13 23-1169 EA 1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	37.59	13.11
23 21 13 23-1170 EA 3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	44.50	13.96
23 21 13 23-1171 EA 1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	52.68	16.07
23 21 13 23-1172 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	63.37	17.48
23 21 13 23-1173 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	77.04	17.48
23 21 13 23-1174 EA 2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	100.16	22.41
23 21 13 23-1175 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	198.32	27.91
23 21 13 23-1176 EA 3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	297.17	33.70
23 21 13 23-1177 EA 4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	440.06	36.98
<b>23 21 13 23-1178 Black Cast Iron Square Head Plug (23 21 13 23-1107)</b>		
23 21 13 23-1179 EA 1/2" Square Head Plug, Black Cast Iron.....	18.97	11.14
23 21 13 23-1180 EA 3/4" Square Head Plug, Black Cast Iron.....	22.48	11.14
23 21 13 23-1181 EA 1" Square Head Plug, Black Cast Iron.....	31.80	16.91
23 21 13 23-1182 EA 1-1/4" Square Head Plug, Black Cast Iron.....	32.50	16.91
23 21 13 23-1183 EA 1-1/2" Square Head Plug, Black Cast Iron.....	35.41	16.91
23 21 13 23-1184 EA 2" Square Head Plug, Black Cast Iron.....	46.84	22.41
23 21 13 23-1185 EA 2-1/2" Square Head Plug, Black Cast Iron.....	60.85	27.91
23 21 13 23-1186 EA 3" Square Head Plug, Black Cast Iron.....	81.15	33.70
23 21 13 23-1187 EA 4" Square Head Plug, Black Cast Iron.....	91.45	36.98



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1188				<b>Unions, 6,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-1107)</small>		
23 21 13 23-1189	EA			1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	113.81	34.82
23 21 13 23-1190	EA			3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	123.45	40.18
23 21 13 23-1191	EA			1" Union, Carbon Steel, Socket Weld, 6,000 LB.....	163.58	47.51
23 21 13 23-1192	EA			1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	212.17	56.53
23 21 13 23-1193	EA			1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	256.65	67.39
23 21 13 23-1194	EA			2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	321.95	83.60
23 21 13 23-1195	EA			2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	639.71	90.79
23 21 13 23-1196	EA			3" Union, Carbon Steel, Socket Weld, 6,000 LB.....	878.53	109.97
23 21 13 23-1197				<b>Carbon Steel, Seamless Piping System</b> <small>(23 21 13 23-1016)</small>		
Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.						
23 21 13 23-1198				<b>Schedule 40, Carbon Steel, Seamless Piping</b> <small>(23 21 13 23-1197)</small>		
Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.						
23 21 13 23-1199	LF			1/4" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	13.39	5.22
				<i>For Schedule 80, Add</i>	2.00	
23 21 13 23-1200	LF			1/2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	13.64	5.64
				<i>For Schedule 80, Add</i>	1.83	
				<i>For Schedule 160, Add</i>	7.64	
23 21 13 23-1201	LF			3/4" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	15.33	6.06
				<i>For Schedule 80, Add</i>	2.24	
				<i>For Schedule 160, Add</i>	9.35	
23 21 13 23-1202	LF			1" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	16.27	6.63
				<i>For Schedule 80, Add</i>	2.31	
				<i>For Schedule 160, Add</i>	9.63	
23 21 13 23-1203	LF			1-1/2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	22.66	8.18
				<i>For Schedule 80, Add</i>	3.74	
				<i>For Schedule 160, Add</i>	15.60	
23 21 13 23-1204	LF			2" Schedule 40, Threaded (A-106) Seamless, Carbon Steel Pipe.....	27.29	9.86
				<i>For Schedule 80, Add</i>	4.48	
				<i>For Schedule 160, Add</i>	18.68	
23 21 13 23-1205				<b>90 Degree Elbows, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>		
23 21 13 23-1206	EA			1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	41.57	21.43
23 21 13 23-1207	EA			1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	50.52	25.10
23 21 13 23-1208	EA			3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	56.42	28.06
23 21 13 23-1209	EA			1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	65.06	31.29
23 21 13 23-1210	EA			1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	106.65	40.04
23 21 13 23-1211	EA			2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	135.09	50.89
23 21 13 23-1212	EA			1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	44.57	21.43
23 21 13 23-1213	EA			1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	51.64	25.10
23 21 13 23-1214	EA			3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	60.13	28.06
23 21 13 23-1215	EA			1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	73.13	31.29
23 21 13 23-1216	EA			1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	125.92	40.04
23 21 13 23-1217	EA			2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	156.38	50.89
23 21 13 23-1218	EA			1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	62.13	25.10
23 21 13 23-1219	EA			3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	73.33	28.06
23 21 13 23-1220	EA			1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	87.00	31.29
23 21 13 23-1221	EA			1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	164.90	40.04
23 21 13 23-1222	EA			2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	259.77	50.89
23 21 13 23-1223				<b>45 Degree Elbows, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>		
23 21 13 23-1224	EA			1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	47.76	21.43
23 21 13 23-1225	EA			1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	52.94	25.10
23 21 13 23-1226	EA			3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	59.55	28.06
23 21 13 23-1227	EA			1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	67.44	31.29
23 21 13 23-1228	EA			1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	98.96	40.04
23 21 13 23-1229	EA			2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	146.96	50.89
23 21 13 23-1230	EA			1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	48.24	21.43
23 21 13 23-1231	EA			1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	55.69	25.10
23 21 13 23-1232	EA			3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	62.71	28.06
23 21 13 23-1233	EA			1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	75.68	31.29
23 21 13 23-1234	EA			1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	122.94	40.04
23 21 13 23-1235	EA			2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	163.02	50.89
23 21 13 23-1236	EA			1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	69.37	25.10
23 21 13 23-1237	EA			3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	86.40	28.06
23 21 13 23-1238	EA			1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	91.91	31.29
23 21 13 23-1239	EA			1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	192.71	40.04
23 21 13 23-1240	EA			2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	261.61	50.89
23 21 13 23-1241				<b>Straight Tees, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>		
23 21 13 23-1242	EA			1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	55.55	29.74
23 21 13 23-1243	EA			1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	63.73	31.29
23 21 13 23-1244	EA			3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	77.05	36.23
23 21 13 23-1245	EA			1" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	95.30	42.72
23 21 13 23-1246	EA			1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	156.60	60.63

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1247 EA 2" Tee, Straight, 2,000 LB, Screwed Carbon Steel.....	194.17	75.29
23 21 13 23-1248 EA 1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	58.11	29.74
23 21 13 23-1249 EA 1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	65.40	31.29
23 21 13 23-1250 EA 3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	82.62	36.23
23 21 13 23-1251 EA 1" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	100.08	42.72
23 21 13 23-1252 EA 1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	173.13	60.63
23 21 13 23-1253 EA 2" Tee, Straight, 3,000 LB, Screwed Carbon Steel.....	221.52	75.29
23 21 13 23-1254 EA 1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	77.98	31.29
23 21 13 23-1255 EA 3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	96.14	36.23
23 21 13 23-1256 EA 1" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	133.50	42.72
23 21 13 23-1257 EA 1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	211.10	60.63
23 21 13 23-1258 EA 2" Tee, Straight, 6,000 LB, Screwed Carbon Steel.....	342.57	75.29
<b>23 21 13 23-1259 Crosses, Screwed Carbon Steel</b> (23 21 13 23-1197)		
23 21 13 23-1260 EA 1/4" Cross, 2,000 LB, Screwed Carbon Steel.....	85.62	37.64
23 21 13 23-1261 EA 1/2" Cross, 2,000 LB, Screwed Carbon Steel.....	102.24	42.29
23 21 13 23-1262 EA 3/4" Cross, 2,000 LB, Screwed Carbon Steel.....	110.09	45.11
23 21 13 23-1263 EA 1" Cross, 2,000 LB, Screwed Carbon Steel.....	136.84	54.42
23 21 13 23-1264 EA 1-1/2" Cross, 2,000 LB, Screwed Carbon Steel.....	247.22	76.13
23 21 13 23-1265 EA 2" Cross, 2,000 LB, Screwed Carbon Steel.....	321.28	94.03
23 21 13 23-1266 EA 1/2" Cross, 3,000 LB, Screwed Carbon Steel.....	105.39	42.29
23 21 13 23-1267 EA 3/4" Cross, 3,000 LB, Screwed Carbon Steel.....	128.16	45.11
23 21 13 23-1268 EA 1" Cross, 3,000 LB, Screwed Carbon Steel.....	152.66	54.42
23 21 13 23-1269 EA 1-1/2" Cross, 3,000 LB, Screwed Carbon Steel.....	270.03	76.13
23 21 13 23-1270 EA 2" Cross, 3,000 LB, Screwed Carbon Steel.....	362.94	94.03
23 21 13 23-1271 EA 1/2" Cross, 6,000 LB, Screwed Carbon Steel.....	164.27	42.29
23 21 13 23-1272 EA 3/4" Cross, 6,000 LB, Screwed Carbon Steel.....	288.89	45.11
23 21 13 23-1273 EA 1" Cross, 6,000 LB, Screwed Carbon Steel.....	400.33	54.42
23 21 13 23-1274 EA 1-1/2" Cross, 6,000 LB, Screwed Carbon Steel.....	638.32	76.13
23 21 13 23-1275 EA 2" Cross, 6,000 LB, Screwed Carbon Steel.....	694.10	94.03
<b>23 21 13 23-1276 Straight Couplings, Screwed Carbon Steel</b> (23 21 13 23-1197)		
23 21 13 23-1277 EA 1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	37.64	21.43
23 21 13 23-1278 EA 1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	42.82	25.10
23 21 13 23-1279 EA 3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	49.27	28.06
23 21 13 23-1280 EA 1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	57.81	31.29
23 21 13 23-1281 EA 1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	87.22	40.04
23 21 13 23-1282 EA 2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel.....	110.67	50.89
23 21 13 23-1283 EA 1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	45.19	21.43
23 21 13 23-1284 EA 1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	47.60	25.10
23 21 13 23-1285 EA 3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	52.94	28.06
23 21 13 23-1286 EA 1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	62.70	31.29
23 21 13 23-1287 EA 1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	94.69	40.04
23 21 13 23-1288 EA 2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel.....	137.95	50.89
<b>23 21 13 23-1289 Reducing Couplings, Screwed Carbon Steel</b> (23 21 13 23-1197)		
23 21 13 23-1290 EA 1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	38.69	22.84
23 21 13 23-1291 EA 1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	45.30	25.10
23 21 13 23-1292 EA 3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	53.05	28.06
23 21 13 23-1293 EA 1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	63.06	31.29
23 21 13 23-1294 EA 1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	88.58	40.04
23 21 13 23-1295 EA 2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel.....	118.03	50.89
23 21 13 23-1296 EA 1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	141.95	25.10
23 21 13 23-1297 EA 3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	146.43	28.06
23 21 13 23-1298 EA 1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	171.90	31.29
23 21 13 23-1299 EA 1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	249.57	40.04
23 21 13 23-1300 EA 2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel.....	361.71	50.89
<b>23 21 13 23-1301 Caps, Screwed Carbon Steel</b> (23 21 13 23-1197)		
23 21 13 23-1302 EA 1/4" Cap, 3,000 LB, Screwed Carbon Steel.....	18.86	9.58
23 21 13 23-1303 EA 1/2" Cap, 3,000 LB, Screwed Carbon Steel.....	21.72	11.14
23 21 13 23-1304 EA 3/4" Cap, 3,000 LB, Screwed Carbon Steel.....	25.67	12.55
23 21 13 23-1305 EA 1" Cap, 3,000 LB, Screwed Carbon Steel.....	31.49	13.96
23 21 13 23-1306 EA 1-1/2" Cap, 3,000 LB, Screwed Carbon Steel.....	43.51	17.77
23 21 13 23-1307 EA 2" Cap, 3,000 LB, Screwed Carbon Steel.....	59.98	22.70
23 21 13 23-1308 EA 1/4" Cap, 6,000 LB, Screwed Carbon Steel.....	27.92	9.58
23 21 13 23-1309 EA 1/2" Cap, 6,000 LB, Screwed Carbon Steel.....	27.53	11.14
23 21 13 23-1310 EA 3/4" Cap, 6,000 LB, Screwed Carbon Steel.....	35.13	12.55
23 21 13 23-1311 EA 1" Cap, 6,000 LB, Screwed Carbon Steel.....	38.40	13.96
23 21 13 23-1312 EA 1-1/2" Cap, 6,000 LB, Screwed Carbon Steel.....	71.66	17.77
23 21 13 23-1313 EA 2" Cap, 6,000 LB, Screwed Carbon Steel.....	87.39	22.70
<b>23 21 13 23-1314 Nipples, Screwed Carbon Steel</b> (23 21 13 23-1197)		
23 21 13 23-1315 EA 1/4" Nipple, 2" Long, Screwed Carbon Steel.....	23.24	12.83
23 21 13 23-1316 EA 1/2" Nipple, 2" Long, Screwed Carbon Steel.....	23.58	13.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1317 EA 3/4" Nipple, 2" Long, Screwed Carbon Steel .....	23.35	13.39
23 21 13 23-1318 EA 1" Nipple, 2" Long, Screwed Carbon Steel .....	26.27	14.52
23 21 13 23-1319 EA 1-1/2" Nipple, 2" Long, Screwed Carbon Steel .....	30.42	15.65
23 21 13 23-1320 EA 2" Nipple, 2" Long, Screwed Carbon Steel .....	35.53	20.16
23 21 13 23-1321 EA 1/4" Nipple, 4" Long, Screwed Carbon Steel .....	24.97	12.83
23 21 13 23-1322 EA 1/2" Nipple, 4" Long, Screwed Carbon Steel .....	24.95	13.39
23 21 13 23-1323 EA 3/4" Nipple, 4" Long, Screwed Carbon Steel .....	24.90	13.39
23 21 13 23-1324 EA 1" Nipple, 4" Long, Screwed Carbon Steel .....	28.36	14.52
23 21 13 23-1325 EA 1-1/2" Nipple, 4" Long, Screwed Carbon Steel .....	34.15	15.65
23 21 13 23-1326 EA 2" Nipple, 4" Long, Screwed Carbon Steel .....	40.99	20.16
23 21 13 23-1327 EA 1/4" Nipple, 6" Long, Screwed Carbon Steel .....	29.11	12.83
23 21 13 23-1328 EA 1/2" Nipple, 6" Long, Screwed Carbon Steel .....	27.13	13.39
23 21 13 23-1329 EA 3/4" Nipple, 6" Long, Screwed Carbon Steel .....	27.33	13.39
23 21 13 23-1330 EA 1" Nipple, 6" Long, Screwed Carbon Steel .....	31.37	14.52
23 21 13 23-1331 EA 1-1/2" Nipple, 6" Long, Screwed Carbon Steel .....	39.25	15.65
23 21 13 23-1332 EA 2" Nipple, 6" Long, Screwed Carbon Steel .....	45.51	20.16
<b>23 21 13 23-1333 Unions, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>		
23 21 13 23-1334 EA 1/4" Union, 3,000 LB, Screwed Carbon Steel .....	48.41	31.15
23 21 13 23-1335 EA 1/2" Union, 3,000 LB, Screwed Carbon Steel .....	49.95	31.29
23 21 13 23-1336 EA 3/4" Union, 3,000 LB, Screwed Carbon Steel .....	57.26	36.23
23 21 13 23-1337 EA 1" Union, 3,000 LB, Screwed Carbon Steel .....	68.53	42.72
23 21 13 23-1338 EA 1-1/2" Union, 3,000 LB, Screwed Carbon Steel .....	98.42	60.63
23 21 13 23-1339 EA 2" Union, 3,000 LB, Screwed Carbon Steel .....	122.24	75.29
23 21 13 23-1340 EA 1/4" Union, 6,000 LB, Screwed Carbon Steel .....	88.50	31.15
23 21 13 23-1341 EA 1/2" Union, 6,000 LB, Screwed Carbon Steel .....	98.41	31.29
23 21 13 23-1342 EA 3/4" Union, 6,000 LB, Screwed Carbon Steel .....	115.95	36.23
23 21 13 23-1343 EA 1" Union, 6,000 LB, Screwed Carbon Steel .....	140.86	42.72
23 21 13 23-1344 EA 1-1/2" Union, 6,000 LB, Screwed Carbon Steel .....	246.32	60.63
23 21 13 23-1345 EA 2" Union, 6,000 LB, Screwed Carbon Steel .....	304.27	75.29
<b>23 21 13 23-1346 Weld Neck Flanges, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>		
23 21 13 23-1347 EA 1/2" Flange, 150 LB, Screwed Carbon Steel .....	108.68	58.22
23 21 13 23-1348 EA 3/4" Flange, 150 LB, Screwed Carbon Steel .....	113.60	61.05
23 21 13 23-1349 EA 1" Flange, 150 LB, Screwed Carbon Steel .....	117.57	63.72
23 21 13 23-1350 EA 1-1/2" Flange, 150 LB, Screwed Carbon Steel .....	130.38	71.76
23 21 13 23-1351 EA 2" Flange, 150 LB, Screwed Carbon Steel .....	135.07	74.87
23 21 13 23-1352 EA 1/2" Flange, 300 LB, Screwed Carbon Steel .....	110.04	58.22
For Ring Type Joint, Add	22.67	
For Blind Flange, Deduct	-39.48	
23 21 13 23-1353 EA 3/4" Flange, 300 LB, Screwed Carbon Steel .....	115.04	61.05
For Ring Type Joint, Add	23.44	
For Blind Flange, Deduct	-41.33	
23 21 13 23-1354 EA 1" Flange, 300 LB, Screwed Carbon Steel .....	119.75	63.72
For Ring Type Joint, Add	24.18	
For Blind Flange, Deduct	-43.06	
23 21 13 23-1355 EA 1-1/2" Flange, 300 LB, Screwed Carbon Steel .....	135.59	71.76
For Ring Type Joint, Add	27.97	
For Blind Flange, Deduct	-48.64	
23 21 13 23-1356 EA 2" Flange, 300 LB, Screwed Carbon Steel .....	140.28	74.87
For Ring Type Joint, Add	27.97	
For Blind Flange, Deduct	-50.52	
23 21 13 23-1357 EA 1/2" Flange, 600 LB, Screwed Carbon Steel .....	118.96	58.22
For Ring Type Joint, Add	31.59	
For Blind Flange, Deduct	-41.27	
23 21 13 23-1358 EA 3/4" Flange, 600 LB, Screwed Carbon Steel .....	123.19	61.05
For Ring Type Joint, Add	31.59	
For Blind Flange, Deduct	-42.96	
23 21 13 23-1359 EA 1" Flange, 600 LB, Screwed Carbon Steel .....	128.60	63.72
For Ring Type Joint, Add	33.03	
For Blind Flange, Deduct	-44.83	
23 21 13 23-1360 EA 1-1/2" Flange, 600 LB, Screwed Carbon Steel .....	146.56	71.76
For Ring Type Joint, Add	38.94	
For Blind Flange, Deduct	-50.84	
23 21 13 23-1361 EA 2" Flange, 600 LB, Screwed Carbon Steel .....	148.55	74.87
For Ring Type Joint, Add	36.24	
For Blind Flange, Deduct	-52.17	
<b>23 21 13 23-1362 Square Head Plugs, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>		
23 21 13 23-1363 EA 1/4" Square Head Plug, Screwed Carbon Steel .....	7.91	3.95
23 21 13 23-1364 EA 1/2" Square Head Plug, Screwed Carbon Steel .....	9.47	4.66
23 21 13 23-1365 EA 3/4" Square Head Plug, Screwed Carbon Steel .....	11.04	5.36
23 21 13 23-1366 EA 1" Square Head Plug, Screwed Carbon Steel .....	16.08	7.89
23 21 13 23-1367 EA 1-1/2" Square Head Plug, Screwed Carbon Steel .....	21.34	7.89
23 21 13 23-1368 EA 2" Square Head Plug, Screwed Carbon Steel .....	31.25	10.29
<b>23 21 13 23-1369 Hex Head Plugs, Screwed Carbon Steel</b> <small>(23 21 13 23-1197)</small>		
23 21 13 23-1370 EA 1/4" Hex Head Plug, Screwed Carbon Steel .....	7.39	3.95

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1371	EA	1/2" Hex Head Plug, Screwed Carbon Steel.....	8.98	4.66
23 21 13 23-1372	EA	3/4" Hex Head Plug, Screwed Carbon Steel.....	10.73	5.36
23 21 13 23-1373	EA	1" Hex Head Plug, Screwed Carbon Steel.....	15.79	7.89
23 21 13 23-1374	EA	1-1/2" Hex Head Plug, Screwed Carbon Steel.....	20.18	7.89
23 21 13 23-1375	EA	2" Hex Head Plug, Screwed Carbon Steel.....	32.08	10.29
<b>23 21 13 23-1376</b>		<b>Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1197)</b>		
23 21 13 23-1377	EA	1/4" Round Head Plug, Screwed Carbon Steel.....	9.09	3.95
23 21 13 23-1378	EA	1/2" Round Head Plug, Screwed Carbon Steel.....	9.54	4.66
23 21 13 23-1379	EA	3/4" Round Head Plug, Screwed Carbon Steel.....	10.82	5.36
23 21 13 23-1380	EA	1" Round Head Plug, Screwed Carbon Steel.....	16.26	7.89
23 21 13 23-1381	EA	1-1/2" Round Head Plug, Screwed Carbon Steel.....	22.80	7.89
23 21 13 23-1382	EA	2" Round Head Plug, Screwed Carbon Steel.....	31.76	10.29
<b>23 21 13 23-1383</b>		<b>Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1197)</b>		
23 21 13 23-1384	EA	1/4" Hex Bushing, Screwed Carbon Steel.....	7.78	3.95
23 21 13 23-1385	EA	1/2" Hex Bushing, Screwed Carbon Steel.....	8.96	4.66
23 21 13 23-1386	EA	3/4" Hex Bushing, Screwed Carbon Steel.....	10.59	5.36
23 21 13 23-1387	EA	1" Hex Bushing, Screwed Carbon Steel.....	16.17	7.89
23 21 13 23-1388	EA	1-1/2" Hex Bushing, Screwed Carbon Steel.....	20.08	7.89
23 21 13 23-1389	EA	2" Hex Bushing, Screwed Carbon Steel.....	30.86	10.29
<b>23 21 13 23-1390</b>		<b>90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1197)</b>		
23 21 13 23-1391	EA	1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	51.16	21.43
23 21 13 23-1392	EA	1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	58.05	25.10
23 21 13 23-1393	EA	3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	68.37	28.06
23 21 13 23-1394	EA	1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	80.62	31.29
23 21 13 23-1395	EA	1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	131.97	40.04
23 21 13 23-1396	EA	2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	179.00	50.89
23 21 13 23-1397	EA	1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	85.44	25.10
23 21 13 23-1398	EA	3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	124.07	28.06
23 21 13 23-1399	EA	1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	173.83	31.29
23 21 13 23-1400	EA	1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	388.38	40.04
<b>23 21 13 23-1401</b>		<b>Screwed Carbon Steel Laterals (23 21 13 23-1197)</b>		
23 21 13 23-1402	EA	1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	235.69	31.29
23 21 13 23-1403	EA	3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	283.95	36.23
23 21 13 23-1404	EA	1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	347.97	42.72
23 21 13 23-1405	EA	1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	445.40	60.63
23 21 13 23-1406	EA	2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	555.86	75.29
23 21 13 23-1407	EA	1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	299.69	31.29
23 21 13 23-1408	EA	3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	379.12	36.23
23 21 13 23-1409	EA	1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	449.73	42.72
23 21 13 23-1410	EA	1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	632.49	60.63
<b>23 21 13 23-1411</b>		<b>Grooved-Joint Pipe (23 21 13 23)</b>		
		Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.		
<b>23 21 13 23-1412</b>		<b>Schedule 10 Black Grooved Pipe (23 21 13 23-1411)</b>		
23 21 13 23-1413	LF	2" Black Schedule 10 Grooved Pipe.....	43.23	17.91
23 21 13 23-1414	LF	2-1/2" Black Schedule 10 Grooved Pipe.....	58.14	24.53
23 21 13 23-1415	LF	3" Black Schedule 10 Grooved Pipe.....	65.43	27.21
23 21 13 23-1416	LF	3-1/2" Black Schedule 10 Grooved Pipe.....	73.88	28.20
23 21 13 23-1417	LF	4" Black Schedule 10 Grooved Pipe.....	78.19	30.59
23 21 13 23-1418	LF	5" Black Schedule 10 Grooved Pipe.....	112.99	37.50
23 21 13 23-1419	LF	6" Black Schedule 10 Grooved Pipe.....	143.44	53.30
23 21 13 23-1420	LF	8" Black Schedule 10 Grooved Pipe.....	201.88	59.77
23 21 13 23-1421	LF	10" Black Schedule 10 Grooved Pipe.....	254.38	72.04
23 21 13 23-1422	LF	12" Black Schedule 10 Grooved Pipe.....	294.12	81.63
<b>23 21 13 23-1423</b>		<b>Schedule 40 Black Grooved Pipe (23 21 13 23-1411)</b>		
23 21 13 23-1424	LF	3/4" Black Schedule 40 Grooved Pipe.....	25.88	10.86
23 21 13 23-1425	LF	1" Black Schedule 40 Grooved Pipe.....	29.24	12.27
23 21 13 23-1426	LF	1-1/4" Black Schedule 40 Grooved Pipe.....	33.53	13.25
23 21 13 23-1427	LF	1-1/2" Black Schedule 40 Grooved Pipe.....	38.16	15.08
23 21 13 23-1428	LF	2" Black Schedule 40 Grooved Pipe.....	48.01	19.18
23 21 13 23-1429	LF	2-1/2" Black Schedule 40 Grooved Pipe.....	67.06	26.23
23 21 13 23-1430	LF	3" Black Schedule 40 Grooved Pipe.....	79.62	29.89
23 21 13 23-1431	LF	4" Black Schedule 40 Grooved Pipe.....	99.26	33.27
23 21 13 23-1432	LF	5" Black Schedule 40 Grooved Pipe.....	139.08	40.46
23 21 13 23-1433	LF	6" Black Schedule 40 Grooved Pipe.....	185.34	58.36
23 21 13 23-1434	LF	8" Black Schedule 40 Grooved Pipe.....	251.14	66.12
23 21 13 23-1435	LF	10" Black Schedule 40 Grooved Pipe.....	351.72	78.95
23 21 13 23-1436	LF	12" Black Schedule 40 Grooved Pipe.....	415.37	90.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1437 LF 14" Black Schedule 40 Grooved Pipe .....	547.06	122.51
23 21 13 23-1438 LF 16" Black Schedule 40 Grooved Pipe .....	633.72	144.08
23 21 13 23-1439 LF 18" Black Schedule 40 Grooved Pipe .....	788.49	174.96
23 21 13 23-1440 LF 20" Black Schedule 40 Grooved Pipe .....	908.16	204.00
23 21 13 23-1441 LF 24" Black Schedule 40 Grooved Pipe .....	1,197.21	244.89
<b>23 21 13 23-1442 Schedule 80 Black Grooved Pipe (23 21 13 23-1411)</b>		
23 21 13 23-1443 LF 3/4" Black Schedule 80 Grooved Pipe .....	28.37	11.85
23 21 13 23-1444 LF 1" Black Schedule 80 Grooved Pipe .....	31.74	12.55
23 21 13 23-1445 LF 1-1/4" Black Schedule 80 Grooved Pipe .....	37.64	13.96
23 21 13 23-1446 LF 1-1/2" Black Schedule 80 Grooved Pipe .....	42.95	15.65
23 21 13 23-1447 LF 2" Black Schedule 80 Grooved Pipe .....	55.59	20.16
23 21 13 23-1448 LF 2-1/2" Black Schedule 80 Grooved Pipe .....	78.63	27.77
23 21 13 23-1449 LF 3" Black Schedule 80 Grooved Pipe .....	94.63	31.15
23 21 13 23-1450 LF 4" Black Schedule 80 Grooved Pipe .....	121.21	33.98
23 21 13 23-1451 LF 5" Black Schedule 80 Grooved Pipe .....	189.30	42.72
23 21 13 23-1452 LF 6" Black Schedule 80 Grooved Pipe .....	243.95	61.19
23 21 13 23-1453 LF 8" Black Schedule 80 Grooved Pipe .....	374.85	69.93
23 21 13 23-1454 LF 10" Black Schedule 80 Grooved Pipe .....	467.73	84.45
23 21 13 23-1455 LF 12" Black Schedule 80 Grooved Pipe .....	486.75	102.07
<b>23 21 13 23-1456 Schedule 40 Galvanized Grooved Pipe (23 21 13 23-1411)</b>		
23 21 13 23-1457 LF 3/4" Galvanized Schedule 40 Grooved Pipe .....	23.36	10.86
23 21 13 23-1458 LF 1" Galvanized Schedule 40 Grooved Pipe .....	27.02	12.27
23 21 13 23-1459 LF 1-1/4" Galvanized Schedule 40 Grooved Pipe .....	30.07	13.25
23 21 13 23-1460 LF 1-1/2" Galvanized Schedule 40 Grooved Pipe .....	34.23	15.08
23 21 13 23-1461 LF 2" Galvanized Schedule 40 Grooved Pipe .....	43.31	19.18
23 21 13 23-1462 LF 2-1/2" Galvanized Schedule 40 Grooved Pipe .....	60.56	26.23
23 21 13 23-1463 LF 3" Galvanized Schedule 40 Grooved Pipe .....	71.70	29.89
23 21 13 23-1464 LF 4" Galvanized Schedule 40 Grooved Pipe .....	87.96	33.27
23 21 13 23-1465 LF 5" Galvanized Schedule 40 Grooved Pipe .....	122.65	40.46
23 21 13 23-1466 LF 6" Galvanized Schedule 40 Grooved Pipe .....	165.94	58.36
23 21 13 23-1467 LF 8" Galvanized Schedule 40 Grooved Pipe .....	218.73	66.12
23 21 13 23-1468 LF 10" Galvanized Schedule 40 Grooved Pipe .....	306.21	78.95
23 21 13 23-1469 LF 12" Galvanized Schedule 40 Grooved Pipe .....	361.31	90.65
<b>23 21 13 23-1470 Schedule 80 Galvanized Grooved Pipe (23 21 13 23-1411)</b>		
23 21 13 23-1471 LF 3/4" Galvanized Schedule 80 Grooved Pipe .....	25.12	11.85
23 21 13 23-1472 LF 1" Galvanized Schedule 80 Grooved Pipe .....	32.32	12.55
23 21 13 23-1473 LF 1-1/4" Galvanized Schedule 80 Grooved Pipe .....	32.87	13.96
23 21 13 23-1474 LF 1-1/2" Galvanized Schedule 80 Grooved Pipe .....	42.74	16.63
23 21 13 23-1475 LF 2" Galvanized Schedule 80 Grooved Pipe .....	48.54	20.16
23 21 13 23-1476 LF 2-1/2" Galvanized Schedule 80 Grooved Pipe .....	68.58	27.77
23 21 13 23-1477 LF 3" Galvanized Schedule 80 Grooved Pipe .....	82.17	31.15
23 21 13 23-1478 LF 4" Galvanized Schedule 80 Grooved Pipe .....	102.65	33.98
23 21 13 23-1479 LF 5" Galvanized Schedule 80 Grooved Pipe .....	153.30	42.72
23 21 13 23-1480 LF 6" Galvanized Schedule 80 Grooved Pipe .....	199.58	61.19
23 21 13 23-1481 LF 8" Galvanized Schedule 80 Grooved Pipe .....	295.19	69.93
23 21 13 23-1482 LF 10" Galvanized Schedule 80 Grooved Pipe .....	351.50	84.45
23 21 13 23-1483 LF 12" Galvanized Schedule 80 Grooved Pipe .....	387.20	102.07
<b>23 21 13 23-1484 Painted Grooved-Joint Pipe Fittings (23 21 13 23)</b>		
Note: Couplings are not included with fittings.		
<b>23 21 13 23-1485 Grooved Elbows (23 21 13 23-1484)</b>		
<b>23 21 13 23-1486 90 Degree Grooved Elbows (23 21 13 23-1485)</b>		
Note: Victaulic No. 10		
23 21 13 23-1487 EA 3/4", Ductile Iron, Grooved 90 Degree Elbow .....	97.37	15.37
For Galvanized Fittings, Add	24.53	
23 21 13 23-1488 EA 1", Ductile Iron, Grooved 90 Degree Elbow .....	97.37	15.37
For Galvanized Fittings, Add	24.53	
23 21 13 23-1489 EA 1-1/4", Ductile Iron, Grooved 90 Degree Elbow .....	103.13	19.18
For Galvanized Fittings, Add	24.53	
23 21 13 23-1490 EA 1-1/2", Ductile Iron, Grooved 90 Degree Elbow .....	109.23	23.26
For Galvanized Fittings, Add	24.53	
23 21 13 23-1491 EA 2", Ductile Iron, Grooved 90 Degree Elbow .....	120.41	30.73
For Galvanized Fittings, Add	24.53	
23 21 13 23-1492 EA 2-1/2", Ductile Iron, Grooved 90 Degree Elbow .....	130.45	37.50
For Galvanized Fittings, Add	24.53	
23 21 13 23-1493 EA 3", Ductile Iron, Grooved 90 Degree Elbow .....	200.07	45.39
For Galvanized Fittings, Add	43.57	
23 21 13 23-1494 EA 4", Ductile Iron, Grooved 90 Degree Elbow .....	233.62	59.91
For Galvanized Fittings, Add	47.46	
23 21 13 23-1495 EA 5", Ductile Iron, Grooved 90 Degree Elbow .....	462.32	74.87
For Galvanized Fittings, Add	115.53	
23 21 13 23-1496 EA 6", Ductile Iron, Grooved 90 Degree Elbow .....	553.70	97.98
For Galvanized Fittings, Add	134.26	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1497	EA	8", Ductile Iron, Grooved 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,031.11 282.57	116.59
23 21	13 23-1498	EA	10", Ductile Iron, Grooved 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,538.06 440.25	136.04
23 21	13 23-1499	EA	12", Ductile Iron, Grooved 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,383.10 705.65	163.26
23 21	13 23-1500	EA	14", Steel, Grooved 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	4,723.31 1,467.51	184.26
23 21	13 23-1501	EA	16", Steel, Grooved 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	6,124.86 1,920.25	204.00
23 21	13 23-1502	EA	18", Steel, Grooved 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	7,714.22 2,435.44	222.89
23 21	13 23-1503	EA	20", Steel, Grooved 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	10,045.81 3,200.41	231.77
23 21	13 23-1504	EA	24", Steel, Grooved 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	14,366.77 4,605.47	274.07
<b>23 21 13 23-1505 45 Degree Grooved Elbows (23 21 13 23-1485)</b>					
Note: Victaulic No. 11					
23 21	13 23-1506	EA	3/4", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	97.32 17.83	15.37
23 21	13 23-1507	EA	1", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	97.32 17.83	15.37
23 21	13 23-1508	EA	1-1/4", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	103.08 17.83	19.18
23 21	13 23-1509	EA	1-1/2", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	109.18 17.83	23.26
23 21	13 23-1510	EA	2", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	120.36 17.83	30.73
23 21	13 23-1511	EA	2-1/2", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	130.40 17.83	37.50
23 21	13 23-1512	EA	3", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	200.02 31.68	45.39
23 21	13 23-1513	EA	4", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	233.62 34.52	59.91
23 21	13 23-1514	EA	5", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	462.32 84.02	74.87
23 21	13 23-1515	EA	6", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	553.70 97.64	97.98
23 21	13 23-1516	EA	8", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,031.11 205.51	116.59
23 21	13 23-1517	EA	10", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,538.06 320.18	136.04
23 21	13 23-1518	EA	12", Ductile Iron, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,383.10 513.20	163.26
23 21	13 23-1519	EA	14", Steel, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	4,723.31 1,067.28	184.26
23 21	13 23-1520	EA	16", Steel, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	6,124.86 1,396.54	204.00
23 21	13 23-1521	EA	18", Steel, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	7,714.22 1,771.23	222.89
23 21	13 23-1522	EA	20", Steel, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	10,046.42 2,327.57	232.20
23 21	13 23-1523	EA	24", Steel, Grooved 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	14,366.77 3,349.44	274.07
<b>23 21 13 23-1524 22-1/2 Degree Grooved Elbows (23 21 13 23-1485)</b>					
Note: Victaulic No. 12					
23 21	13 23-1525	EA	1", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	102.21 19.00	15.37
23 21	13 23-1526	EA	1-1/4", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	107.97 19.00	19.18
23 21	13 23-1527	EA	1-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	114.07 19.00	23.26
23 21	13 23-1528	EA	2", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	125.25 19.00	30.73
23 21	13 23-1529	EA	2-1/2", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	135.29 19.00	37.50
23 21	13 23-1530	EA	3", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	183.82 27.79	45.39
23 21	13 23-1531	EA	4", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	245.06 37.26	59.91
23 21	13 23-1532	EA	5", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	593.71 115.55	74.87
23 21	13 23-1533	EA	6", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	586.69 105.56	97.98
23 21	13 23-1534	EA	8", Ductile Iron, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,095.12 220.87	116.59
23 21	13 23-1535	EA	10", Steel, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,467.42 303.23	136.04
23 21	13 23-1536	EA	12", Steel, Grooved 22-1/2 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,952.84 409.94	163.26





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1537 EA 14", Steel, Grooved 22-1/2 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	2,249.19 473.49	184.26
23 21 13 23-1538 EA 16", Steel, Grooved 22-1/2 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	2,672.12 567.89	204.00
23 21 13 23-1539 EA 18", Steel, Grooved 22-1/2 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	3,199.75 687.75	222.89
23 21 13 23-1540 EA 20", Steel, Grooved 22-1/2 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	3,735.54 813.11	231.77
23 21 13 23-1541 EA 24", Steel, Grooved 22-1/2 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	4,963.46 1,092.64	274.07
<b>23 21 13 23-1542 11-1/4 Degree Grooved Elbows</b> <small>(23 21 13 23-1485)</small> Note: Victaulic No. 13		
23 21 13 23-1543 EA 1", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	102.21 19.00	15.37
23 21 13 23-1544 EA 1-1/4", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	107.97 19.00	19.18
23 21 13 23-1545 EA 1-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	114.07 19.00	23.26
23 21 13 23-1546 EA 2", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	125.25 19.00	30.73
23 21 13 23-1547 EA 2-1/2", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	135.29 19.00	37.50
23 21 13 23-1548 EA 3", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	183.81 27.79	45.39
23 21 13 23-1549 EA 4", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	245.05 37.26	59.91
23 21 13 23-1550 EA 5", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	593.69 115.55	74.87
23 21 13 23-1551 EA 6", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	586.67 105.56	97.98
23 21 13 23-1552 EA 8", Ductile Iron, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	1,095.07 220.86	116.59
23 21 13 23-1553 EA 10", Steel, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	1,467.34 303.21	136.04
23 21 13 23-1554 EA 12", Steel, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	1,952.75 409.92	163.26
23 21 13 23-1555 EA 14", Steel, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	2,249.10 473.46	184.26
23 21 13 23-1556 EA 16", Steel, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	2,672.04 567.85	204.14
23 21 13 23-1557 EA 18", Steel, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	3,199.56 687.72	222.89
23 21 13 23-1558 EA 20", Steel, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	3,735.35 813.06	231.77
23 21 13 23-1559 EA 24", Steel, Grooved 11-1/4 Degree Elbow ..... <i>For Galvanized Fittings, Add</i>	4,963.21 1,092.58	274.07
<b>23 21 13 23-1560 90 Degree Grooved Long Radius Elbows</b> <small>(23 21 13 23-1485)</small> Note: Victaulic No. 100		
23 21 13 23-1561 EA 2", Ductile Iron, Grooved 90 Degree Long Radius Elbow ..... <i>For Galvanized Fittings, Add</i>	216.01 40.78	30.73
23 21 13 23-1562 EA 2-1/2", Ductile Iron, Grooved 90 Degree Long Radius Elbow ..... <i>For Galvanized Fittings, Add</i>	549.18 118.33	37.50
23 21 13 23-1563 EA 3", Ductile Iron, Grooved 90 Degree Long Radius Elbow ..... <i>For Galvanized Fittings, Add</i>	237.96 40.78	45.39
23 21 13 23-1564 EA 4", Ductile Iron, Grooved 90 Degree Long Radius Elbow ..... <i>For Galvanized Fittings, Add</i>	344.35 61.09	59.91
23 21 13 23-1565 EA 5", Ductile Iron, Grooved 90 Degree Long Radius Elbow ..... <i>For Galvanized Fittings, Add</i>	1,416.95 313.13	74.87
23 21 13 23-1566 EA 6", Ductile Iron, Grooved 90 Degree Long Radius Elbow ..... <i>For Galvanized Fittings, Add</i>	891.51 178.72	97.98
23 21 13 23-1567 EA 8", Ductile Iron, Grooved, 90 Degree Long Radius Elbow ..... <i>For Galvanized Fittings, Add</i>	1,961.01 428.68	116.59
23 21 13 23-1568 EA 10", Ductile Iron, Grooved 90 Degree Long Radius Elbow ..... <i>For Galvanized Fittings, Add</i>	3,907.46 888.84	136.04
23 21 13 23-1569 EA 12", Ductile Iron, Grooved 90 Degree Long Radius Elbow ..... <i>For Galvanized Fittings, Add</i>	4,661.18 1,059.94	163.26
<b>23 21 13 23-1570 Grooved Tees, Wyes And Crosses</b> <small>(23 21 13 23-1484)</small>		
<b>23 21 13 23-1571 Grooved Tees</b> <small>(23 21 13 23-1570)</small> Note: Victaulic No. 20		
23 21 13 23-1572 EA 3/4", Ductile Iron, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	143.89 34.07	20.16
23 21 13 23-1573 EA 1", Ductile Iron, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	148.48 34.07	23.26
23 21 13 23-1574 EA 1-1/4", Ductile Iron, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	156.24 34.07	28.48
23 21 13 23-1575 EA 1-1/2", Ductile Iron, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	165.93 34.07	34.96

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1576 EA 2", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	181.34 34.07	45.25
23 21 13 23-1577 EA 2-1/2", Ductile Iron, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	196.72 34.07	55.41
23 21 13 23-1578 EA 3", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	261.15 47.73	68.10
23 21 13 23-1579 EA 4", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	376.10 73.22	88.11
23 21 13 23-1580 EA 5", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	745.27 171.77	115.18
23 21 13 23-1581 EA 6", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	877.73 198.53	144.08
23 21 13 23-1582 EA 8", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	1,707.78 433.66	174.96
23 21 13 23-1583 EA 10", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	2,887.27 774.40	204.00
23 21 13 23-1584 EA 12", Ductile Iron, Grooved Tee..... <i>For Galvanized Fittings, Add</i>	3,980.99 1,084.16	244.89
23 21 13 23-1585 EA 14", Steel, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	4,350.31 1,182.71	272.09
23 21 13 23-1586 EA 16", Steel, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	5,432.09 1,506.55	273.65
23 21 13 23-1587 EA 18", Steel, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	6,741.53 1,886.71	301.84
23 21 13 23-1588 EA 20", Steel, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	9,470.79 2,703.35	306.63
23 21 13 23-1589 EA 24", Steel, Grooved Tee ..... <i>For Galvanized Fittings, Add</i>	14,410.08 4,153.58	376.70
<b>23 21 13 23-1590 Grooved Wyes (90 Degree True Wye) (23 21 13 23-1570)</b> Note: Victaulic No. 33		
23 21 13 23-1591 EA 1", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	514.12 76.68	23.26
23 21 13 23-1592 EA 1-1/4", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	521.88 76.68	28.48
23 21 13 23-1593 EA 1-1/2", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	531.57 76.68	34.96
23 21 13 23-1594 EA 2", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	546.98 76.68	45.25
23 21 13 23-1595 EA 2-1/2", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	562.36 76.68	55.41
23 21 13 23-1596 EA 3", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	674.88 91.65	68.10
23 21 13 23-1597 EA 4", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	882.35 120.05	88.11
23 21 13 23-1598 EA 5", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	1,248.15 172.07	115.18
23 21 13 23-1599 EA 6", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	1,546.62 212.90	144.08
23 21 13 23-1600 EA 8", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	2,178.74 306.64	174.96
23 21 13 23-1601 EA 10", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	3,613.79 529.25	204.00
23 21 13 23-1602 EA 12", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	4,021.53 584.70	244.89
23 21 13 23-1603 EA 14", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	4,580.84 667.67	272.09
23 21 13 23-1604 EA 16", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	5,829.91 867.21	273.37
23 21 13 23-1605 EA 18", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	6,652.94 991.99	302.13
23 21 13 23-1606 EA 20", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	9,450.92 1,438.72	306.07
23 21 13 23-1607 EA 24", Steel, Grooved Wye ..... <i>For Galvanized Fittings, Add</i>	14,544.87 2,236.81	376.70
<b>23 21 13 23-1608 Grooved Crosses (23 21 13 23-1570)</b> Note: Victaulic No. 35		
23 21 13 23-1609 EA 3/4", Steel, Grooved Cross ..... <i>For Galvanized Fittings, Add</i>	355.72 46.54	30.31
23 21 13 23-1610 EA 1", Steel, Grooved Cross ..... <i>For Galvanized Fittings, Add</i>	362.61 46.54	34.96
23 21 13 23-1611 EA 1-1/4", Steel, Grooved Cross ..... <i>For Galvanized Fittings, Add</i>	438.44 56.17	42.72
23 21 13 23-1612 EA 1-1/2", Steel, Grooved Cross ..... <i>For Galvanized Fittings, Add</i>	482.04 60.53	52.44
23 21 13 23-1613 EA 2", Steel, Grooved Cross ..... <i>For Galvanized Fittings, Add</i>	329.66 34.20	67.82
23 21 13 23-1614 EA 2-1/2", Steel, Grooved Cross ..... <i>For Galvanized Fittings, Add</i>	352.75 34.20	83.18
23 21 13 23-1615 EA 3", Steel, Grooved Cross ..... <i>For Galvanized Fittings, Add</i>	562.82 61.46	102.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1616 EA 4", Steel, Grooved Cross .....	880.18	132.10
For Galvanized Fittings, Add	102.31	
23 21 13 23-1617 EA 5", Steel, Grooved Cross .....	1,652.50	172.70
For Galvanized Fittings, Add	209.02	
23 21 13 23-1618 EA 6", Steel, Grooved Cross .....	2,116.79	216.13
For Galvanized Fittings, Add	268.93	
23 21 13 23-1619 EA 8", Steel, Grooved Cross .....	2,754.53	262.36
For Galvanized Fittings, Add	354.18	
23 21 13 23-1620 EA 10", Steel, Grooved Cross .....	4,486.03	306.07
For Galvanized Fittings, Add	604.07	
23 21 13 23-1621 EA 12", Steel, Grooved Cross .....	6,362.14	367.40
For Galvanized Fittings, Add	871.72	
23 21 13 23-1622 EA 14", Steel, Grooved Cross .....	6,632.84	408.14
For Galvanized Fittings, Add	903.14	
23 21 13 23-1623 EA 16", Steel, Grooved Cross .....	8,491.79	410.54
For Galvanized Fittings, Add	1,181.46	
23 21 13 23-1624 EA 18", Steel, Grooved Cross .....	10,333.27	452.69
For Galvanized Fittings, Add	1,448.19	
23 21 13 23-1625 EA 20", Steel, Grooved Cross .....	14,367.12	459.74
For Galvanized Fittings, Add	2,051.67	
23 21 13 23-1626 EA 24", Steel, Grooved Cross .....	21,962.74	565.05
For Galvanized Fittings, Add	3,167.33	
<b>23 21 13 23-1627 Grooved Reducing Tees</b> (23 21 13 23-1570)		
Note: Victaulic No. 25		
23 21 13 23-1628 EA 1", Steel, Grooved Reducing Tee .....	254.05	23.26
For Galvanized Fittings, Add	43.83	
23 21 13 23-1629 EA 1-1/4", Steel, Grooved Reducing Tee .....	268.69	28.48
For Galvanized Fittings, Add	45.21	
23 21 13 23-1630 EA 1-1/2", Steel, Grooved Reducing Tee .....	284.01	34.96
For Galvanized Fittings, Add	46.33	
23 21 13 23-1631 EA 2", Steel, Grooved Reducing Tee .....	338.97	45.25
For Galvanized Fittings, Add	54.24	
23 21 13 23-1632 EA 2-1/2", Steel, Grooved Reducing Tee .....	382.26	55.41
For Galvanized Fittings, Add	59.82	
23 21 13 23-1633 EA 3", Steel, Grooved Reducing Tee .....	429.46	68.10
For Galvanized Fittings, Add	65.48	
23 21 13 23-1634 EA 4", Steel, Grooved Reducing Tee .....	573.60	88.11
For Galvanized Fittings, Add	88.31	
23 21 13 23-1635 EA 5", Steel, Grooved Reducing Tee .....	755.72	115.18
For Galvanized Fittings, Add	116.61	
23 21 13 23-1636 EA 6", Steel, Grooved Reducing Tee .....	1,036.15	144.08
For Galvanized Fittings, Add	164.04	
23 21 13 23-1637 EA 8", Steel, Grooved Reducing Tee .....	1,615.54	174.96
For Galvanized Fittings, Add	270.66	
23 21 13 23-1638 EA 10", Steel, Grooved Reducing Tee .....	2,300.99	204.00
For Galvanized Fittings, Add	399.01	
23 21 13 23-1639 EA 12", Steel, Grooved Reducing Tee .....	3,310.16	244.89
For Galvanized Fittings, Add	588.60	
23 21 13 23-1640 EA 14", Steel, Grooved Reducing Tee .....	3,750.56	272.09
For Galvanized Fittings, Add	668.53	
23 21 13 23-1641 EA 16", Steel, Grooved Reducing Tee .....	4,752.30	273.65
For Galvanized Fittings, Add	868.40	
23 21 13 23-1642 EA 18", Steel, Grooved Reducing Tee .....	5,768.14	301.84
For Galvanized Fittings, Add	1,063.14	
23 21 13 23-1643 EA 20", Steel, Grooved Reducing Tee .....	8,061.93	306.49
For Galvanized Fittings, Add	1,520.48	
23 21 13 23-1644 EA 24", Steel, Grooved Reducing Tee .....	12,810.73	376.70
For Galvanized Fittings, Add	2,449.18	
<b>23 21 13 23-1645 Grooved 45 Degree Lateral Wyes</b> (23 21 13 23-1570)		
Note: Victaulic No. 30		
23 21 13 23-1646 EA 3/4", Steel, Grooved, 45 Degree Lateral Wye .....	484.13	20.16
For Galvanized Fittings, Add	81.69	
23 21 13 23-1647 EA 1", Steel, Grooved, 45 Degree Lateral Wye .....	488.72	23.26
For Galvanized Fittings, Add	81.69	
23 21 13 23-1648 EA 1-1/4", Steel, Grooved, 45 Degree Lateral Wye .....	496.48	28.48
For Galvanized Fittings, Add	81.69	
23 21 13 23-1649 EA 1-1/2", Steel, Grooved, 45 Degree Lateral Wye .....	506.17	34.96
For Galvanized Fittings, Add	81.69	
23 21 13 23-1650 EA 2", Steel, Grooved, 45 Degree Lateral Wye .....	521.58	45.25
For Galvanized Fittings, Add	81.69	
23 21 13 23-1651 EA 2-1/2", Steel, Grooved, 45 Degree Lateral Wye .....	536.96	55.41
For Galvanized Fittings, Add	81.69	
23 21 13 23-1652 EA 3", Steel, Grooved, 45 Degree Lateral Wye .....	494.11	68.10
For Galvanized Fittings, Add	70.57	
23 21 13 23-1653 EA 3-1/2", Steel, Grooved, 45 Degree Lateral Wye .....	781.88	78.53
For Galvanized Fittings, Add	119.56	
23 21 13 23-1654 EA 4", Steel, Grooved, 45 Degree Lateral Wye .....	905.26	88.11
For Galvanized Fittings, Add	139.18	
23 21 13 23-1655 EA 5", Steel, Grooved, 45 Degree Lateral Wye .....	1,302.70	115.18
For Galvanized Fittings, Add	203.40	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1656	EA	6", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	2,036.61 327.72	144.08
23 21	13 23-1657	EA	8", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	2,884.63 472.03	174.96
23 21	13 23-1658	EA	10", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	4,007.40 666.26	204.00
23 21	13 23-1659	EA	12", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	4,842.36 805.54	244.89
23 21	13 23-1660	EA	14", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	6,939.80 1,175.74	272.09
23 21	13 23-1661	EA	16", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	8,570.36 1,468.81	273.65
23 21	13 23-1662	EA	18", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	9,574.41 1,641.95	301.84
23 21	13 23-1663	EA	20", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	14,296.02 2,490.57	306.49
23 21	13 23-1664	EA	24", Steel, Grooved, 45 Degree Lateral Wye <i>For Galvanized Fittings, Add</i>	22,065.71 3,870.16	376.70
<b>23 21 13 23-1665 Grooved 45 Degree Lateral Reducing Wyes (23 21 13 23-1570)</b>					
Note: Victaulic No. 30R					
23 21	13 23-1666	EA	3", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	494.11 50.97	68.10
23 21	13 23-1667	EA	4", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	905.26 100.52	88.11
23 21	13 23-1668	EA	5", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	1,302.70 146.90	115.18
23 21	13 23-1669	EA	6", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	1,675.94 189.80	144.08
23 21	13 23-1670	EA	8", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	2,369.85 273.99	174.96
23 21	13 23-1671	EA	10", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	2,887.17 335.56	204.00
23 21	13 23-1672	EA	12", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	3,503.96 407.79	244.89
23 21	13 23-1673	EA	14", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	3,921.96 456.82	272.09
23 21	13 23-1674	EA	16", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	4,952.49 590.48	273.65
23 21	13 23-1675	EA	18", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	7,426.99 906.69	301.84
23 21	13 23-1676	EA	20", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	10,668.43 1,327.16	306.49
23 21	13 23-1677	EA	24", Steel, Grooved 45 Degree Lateral Reducing Wye <i>For Galvanized Fittings, Add</i>	17,093.44 2,148.72	376.70
<b>23 21 13 23-1678 Mechanical-T Outlet (23 21 13 23-1570)</b>					
Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.					
23 21	13 23-1679	EA	2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	176.97 18.72	50.75
23 21	13 23-1680	EA	2" x 1" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	176.97 18.72	50.75
23 21	13 23-1681	EA	2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	188.75 21.64	50.75
23 21	13 23-1682	EA	2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet	188.75	50.75
23 21	13 23-1683	EA	2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	189.66	57.10
23 21	13 23-1684	EA	2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet	189.66	57.10
23 21	13 23-1685	EA	2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	220.77	57.10
23 21	13 23-1686	EA	3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	213.79	63.44
23 21	13 23-1687	EA	3" x 1" Mechanical-T Outlet With Threaded Branch Outlet	213.79	63.44
23 21	13 23-1688	EA	3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	238.83	63.44
23 21	13 23-1689	EA	3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet	238.83	63.44
23 21	13 23-1690	EA	3" x 2" Mechanical-T Outlet With Threaded Branch Outlet	255.98	63.44
23 21	13 23-1691	EA	4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	279.99	84.59
23 21	13 23-1692	EA	4" x 1" Mechanical-T Outlet With Threaded Branch Outlet	279.99	84.59
23 21	13 23-1693	EA	4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	299.54	84.59
23 21	13 23-1694	EA	4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	305.03	84.59
23 21	13 23-1695	EA	4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet	305.03	84.59
23 21	13 23-1696	EA	4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	310.52	84.59
23 21	13 23-1697	EA	4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet	321.04	84.59
23 21	13 23-1698	EA	5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	399.46	116.30
23 21	13 23-1699	EA	5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet	399.46	116.30
23 21	13 23-1700	EA	5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	408.95	116.30
23 21	13 23-1701	EA	5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet	420.84	116.30
23 21	13 23-1702	EA	6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	466.79	148.03
23 21	13 23-1703	EA	6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet	466.79	148.03
23 21	13 23-1704	EA	6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	480.74	148.03
23 21	13 23-1705	EA	6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet	492.52	148.03
23 21	13 23-1706	EA	6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet	513.44	148.03
23 21	13 23-1707	EA	8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet	694.04	195.97
23 21	13 23-1708	EA	8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet	694.04	195.97



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1709 EA 8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	710.85	195.97
23 21 13 23-1710 EA 8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	720.80	195.97
<b>23 21 13 23-1711 Installation-Ready™ Grooved Fittings (23 21 13 23-1484)</b>		
<b>23 21 13 23-1712 Installation-Ready™ 90 Degree Grooved Elbows (23 21 13 23-1711)</b>		
Note: Victaulic No. 101		
23 21 13 23-1713 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	266.94	13.96
For Galvanized Fittings, Add	81.11	
For Galvanized Fittings, Add	62.92	
23 21 13 23-1714 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	278.40	16.75
For Galvanized Fittings, Add	83.50	
For Galvanized Fittings, Add	64.77	
23 21 13 23-1715 EA 2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	288.67	22.33
For Galvanized Fittings, Add	84.09	
For Galvanized Fittings, Add	65.24	
23 21 13 23-1716 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	349.53	27.91
For Galvanized Fittings, Add	101.39	
For Galvanized Fittings, Add	78.65	
<b>23 21 13 23-1717 Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1711)</b>		
Note: Victaulic No. 103		
23 21 13 23-1718 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	266.94	13.96
For Galvanized Fittings, Add	58.99	
For Galvanized Fittings, Add	62.92	
23 21 13 23-1719 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	278.40	16.75
For Galvanized Fittings, Add	60.72	
For Galvanized Fittings, Add	64.77	
23 21 13 23-1720 EA 2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	288.67	22.33
For Galvanized Fittings, Add	61.16	
For Galvanized Fittings, Add	65.24	
23 21 13 23-1721 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow.....	349.53	27.91
For Galvanized Fittings, Add	73.74	
For Galvanized Fittings, Add	78.65	
<b>23 21 13 23-1722 Installation-Ready™ Grooved Tees (23 21 13 23-1711)</b>		
Note: Victaulic No. 102		
23 21 13 23-1723 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee.....	407.73	18.61
For Galvanized Fittings, Add	113.86	
For Galvanized Fittings, Add	97.16	
23 21 13 23-1724 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	426.02	22.33
For Galvanized Fittings, Add	117.65	
For Galvanized Fittings, Add	100.40	
23 21 13 23-1725 EA 2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	442.71	29.78
For Galvanized Fittings, Add	119.28	
For Galvanized Fittings, Add	101.79	
23 21 13 23-1726 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	515.44	37.22
For Galvanized Fittings, Add	137.72	
For Galvanized Fittings, Add	117.52	
<b>23 21 13 23-1727 Grooved Fittings (23 21 13 23-1484)</b>		
<b>23 21 13 23-1728 Flanged Adapter Nipple, Grooved (23 21 13 23-1727)</b>		
Note: Victaulic No. 41 and 45		
23 21 13 23-1729 EA 1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	344.76	16.91
For Galvanized Fittings, Add	57.49	
For 300 LB Rating, Add	47.91	
23 21 13 23-1730 EA 1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	347.58	18.75
For Galvanized Fittings, Add	57.49	
For 300 LB Rating, Add	47.91	
23 21 13 23-1731 EA 1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	354.63	23.54
For Galvanized Fittings, Add	57.49	
For 300 LB Rating, Add	47.91	
23 21 13 23-1732 EA 2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	369.46	33.42
For Galvanized Fittings, Add	57.49	
For 300 LB Rating, Add	47.91	
23 21 13 23-1733 EA 2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	380.06	40.46
For Galvanized Fittings, Add	57.49	
For 300 LB Rating, Add	47.91	
23 21 13 23-1734 EA 3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	481.09	48.36
For Galvanized Fittings, Add	73.56	
For 300 LB Rating, Add	61.30	
23 21 13 23-1735 EA 4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	584.98	65.13
For Galvanized Fittings, Add	87.73	
For 300 LB Rating, Add	73.11	
23 21 13 23-1736 EA 5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	814.59	78.81
For Galvanized Fittings, Add	125.36	
For 300 LB Rating, Add	104.46	
23 21 13 23-1737 EA 6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	954.21	106.44
For Galvanized Fittings, Add	143.03	
For 300 LB Rating, Add	119.19	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1738	EA		8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	1,312.77	144.08
			<i>For Galvanized Fittings, Add</i>	197.42	
			<i>For 300 LB Rating, Add</i>	164.52	
23 21 13 23-1739	EA		10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,052.06	174.96
			<i>For Galvanized Fittings, Add</i>	322.17	
			<i>For 300 LB Rating, Add</i>	268.47	
23 21 13 23-1740	EA		12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	2,753.18	204.00
			<i>For Galvanized Fittings, Add</i>	440.50	
			<i>For 300 LB Rating, Add</i>	367.08	
23 21 13 23-1741	EA		14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	3,253.09	244.89
			<i>For Galvanized Fittings, Add</i>	519.47	
			<i>For 300 LB Rating, Add</i>	432.89	
23 21 13 23-1742	EA		16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	4,852.35	272.09
			<i>For Galvanized Fittings, Add</i>	800.00	
			<i>For 300 LB Rating, Add</i>	666.66	
23 21 13 23-1743	EA		18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	5,832.22	408.14
			<i>For Galvanized Fittings, Add</i>	939.66	
			<i>For 300 LB Rating, Add</i>	783.05	
23 21 13 23-1744	EA		20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	6,175.56	489.77
			<i>For Galvanized Fittings, Add</i>	979.43	
			<i>For 300 LB Rating, Add</i>	816.19	
23 21 13 23-1745	EA		24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	10,202.75	544.19
			<i>For Galvanized Fittings, Add</i>	1,689.64	
			<i>For 300 LB Rating, Add</i>	1,408.03	
<b>23 21 13 23-1746 Grooved Concentric Reducers (23 21 13 23-1727)</b>					
Note: Victaulic No. 50					
23 21 13 23-1747	EA		1-1/4" x 3/4", Grooved Concentric Reducer.....	366.03	16.91
			<i>For Galvanized Fittings, Add</i>	14.99	
23 21 13 23-1748	EA		1-1/4" x 1", Grooved Concentric Reducer.....	382.80	17.91
			<i>For Galvanized Fittings, Add</i>	15.66	
23 21 13 23-1749	EA		1-1/2" x 3/4", Grooved Concentric Reducer.....	430.97	19.32
			<i>For Galvanized Fittings, Add</i>	48.33	
23 21 13 23-1750	EA		1-1/2" x 1", Grooved Concentric Reducer.....	116.41	20.16
			<i>For Galvanized Fittings, Add</i>	10.35	
23 21 13 23-1751	EA		1-1/2" x 1-1/4", Grooved Concentric Reducer.....	364.99	21.15
			<i>For Galvanized Fittings, Add</i>	40.06	
23 21 13 23-1752	EA		2" x 3/4", Grooved Concentric Reducer.....	120.64	22.98
			<i>For Galvanized Fittings, Add</i>	10.35	
23 21 13 23-1753	EA		2" x 1", Grooved Concentric Reducer.....	122.05	23.96
			<i>For Galvanized Fittings, Add</i>	10.35	
23 21 13 23-1754	EA		2" x 1-1/4", Grooved Concentric Reducer.....	132.11	24.96
			<i>For Galvanized Fittings, Add</i>	11.39	
23 21 13 23-1755	EA		2" x 1-1/2", Grooved Concentric Reducer.....	127.77	27.77
			<i>For Galvanized Fittings, Add</i>	10.35	
23 21 13 23-1756	EA		2-1/2" x 3/4", Grooved Concentric Reducer.....	739.65	25.94
			<i>For Galvanized Fittings, Add</i>	84.23	
23 21 13 23-1757	EA		2-1/2" x 1", Grooved Concentric Reducer.....	589.99	26.93
			<i>For Galvanized Fittings, Add</i>	66.08	
23 21 13 23-1758	EA		2-1/2" x 1-1/4", Grooved Concentric Reducer.....	539.28	27.77
			<i>For Galvanized Fittings, Add</i>	59.81	
23 21 13 23-1759	EA		2-1/2" x 1-1/2", Grooved Concentric Reducer.....	131.91	30.59
			<i>For Galvanized Fittings, Add</i>	10.35	
23 21 13 23-1760	EA		2-1/2" x 2", Grooved Concentric Reducer.....	137.56	34.26
			<i>For Galvanized Fittings, Add</i>	10.35	
23 21 13 23-1761	EA		3" x 3/4", Grooved Concentric Reducer.....	750.47	30.17
			<i>For Galvanized Fittings, Add</i>	107.21	
23 21 13 23-1762	EA		3" x 1", Grooved Concentric Reducer.....	141.55	31.01
			<i>For Galvanized Fittings, Add</i>	14.45	
23 21 13 23-1763	EA		3" x 1-1/4", Grooved Concentric Reducer.....	594.18	32.01
			<i>For Galvanized Fittings, Add</i>	83.04	
23 21 13 23-1764	EA		3" x 1-1/2", Grooved Concentric Reducer.....	559.08	34.26
			<i>For Galvanized Fittings, Add</i>	77.16	
23 21 13 23-1765	EA		3" x 2", Grooved Concentric Reducer.....	132.62	38.06
			<i>For Galvanized Fittings, Add</i>	11.48	
23 21 13 23-1766	EA		3" x 2-1/2", Grooved Concentric Reducer.....	172.10	45.39
			<i>For Galvanized Fittings, Add</i>	15.82	
23 21 13 23-1767	EA		3-1/2" x 3", Grooved Concentric Reducer.....	184.21	48.92
			<i>For Galvanized Fittings, Add</i>	16.86	
23 21 13 23-1768	EA		4" x 1", Grooved Concentric Reducer.....	172.12	38.48
			<i>For Galvanized Fittings, Add</i>	19.60	
23 21 13 23-1769	EA		4" x 1-1/4", Grooved Concentric Reducer.....	962.89	39.48
			<i>For Galvanized Fittings, Add</i>	154.98	
23 21 13 23-1770	EA		4" x 1-1/2", Grooved Concentric Reducer.....	753.61	41.87
			<i>For Galvanized Fittings, Add</i>	118.48	
23 21 13 23-1771	EA		4" x 2", Grooved Concentric Reducer.....	168.93	45.67
			<i>For Galvanized Fittings, Add</i>	17.24	
23 21 13 23-1772	EA		4" x 2-1/2", Grooved Concentric Reducer.....	199.34	48.92
			<i>For Galvanized Fittings, Add</i>	21.61	
23 21 13 23-1773	EA		4" x 3", Grooved Concentric Reducer.....	204.98	52.72
			<i>For Galvanized Fittings, Add</i>	21.61	
23 21 13 23-1774	EA		4" x 3-1/2", Grooved Concentric Reducer.....	210.62	56.39
			<i>For Galvanized Fittings, Add</i>	21.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1775 EA 5" x 2", Grooved Concentric Reducer .....	1,351.40	53.15
For Galvanized Fittings, Add	218.10	
23 21 13 23-1776 EA 5" x 2-1/2", Grooved Concentric Reducer .....	1,071.30	56.39
For Galvanized Fittings, Add	169.22	
23 21 13 23-1777 EA 5" x 3", Grooved Concentric Reducer .....	237.75	60.19
For Galvanized Fittings, Add	25.30	
23 21 13 23-1778 EA 5" x 4", Grooved Concentric Reducer .....	277.69	67.68
For Galvanized Fittings, Add	30.21	
23 21 13 23-1779 EA 6" x 1", Grooved Concentric Reducer .....	320.31	57.38
For Galvanized Fittings, Add	43.72	
23 21 13 23-1780 EA 6" x 1-1/2", Grooved Concentric Reducer .....	1,428.06	60.63
For Galvanized Fittings, Add	249.51	
23 21 13 23-1781 EA 6" x 2", Grooved Concentric Reducer .....	330.87	64.43
For Galvanized Fittings, Add	43.72	
23 21 13 23-1782 EA 6" x 2-1/2", Grooved Concentric Reducer .....	1,446.26	67.68
For Galvanized Fittings, Add	250.93	
23 21 13 23-1783 EA 6" x 3", Grooved Concentric Reducer .....	341.46	71.48
For Galvanized Fittings, Add	43.72	
23 21 13 23-1784 EA 6" x 4", Grooved Concentric Reducer .....	322.48	78.95
For Galvanized Fittings, Add	38.08	
23 21 13 23-1785 EA 6" x 5", Grooved Concentric Reducer .....	431.59	86.56
For Galvanized Fittings, Add	56.33	
23 21 13 23-1786 EA 8" x 3", Grooved Concentric Reducer .....	539.92	80.92
For Galvanized Fittings, Add	78.13	
23 21 13 23-1787 EA 8" x 4", Grooved Concentric Reducer .....	551.18	88.39
For Galvanized Fittings, Add	78.13	
23 21 13 23-1788 EA 8" x 5", Grooved Concentric Reducer .....	562.48	95.87
For Galvanized Fittings, Add	78.13	
23 21 13 23-1789 EA 8" x 6", Grooved Concentric Reducer .....	694.62	107.14
For Galvanized Fittings, Add	99.63	
23 21 13 23-1790 EA 10" x 4", Grooved Concentric Reducer .....	1,144.17	98.26
For Galvanized Fittings, Add	186.01	
23 21 13 23-1791 EA 10" x 5", Grooved Concentric Reducer .....	2,355.97	105.74
For Galvanized Fittings, Add	410.03	
23 21 13 23-1792 EA 10" x 6", Grooved Concentric Reducer .....	1,265.61	117.02
For Galvanized Fittings, Add	203.41	
23 21 13 23-1793 EA 10" x 8", Grooved Concentric Reducer .....	1,279.68	126.46
For Galvanized Fittings, Add	203.41	
23 21 13 23-1794 EA 12" x 4", Grooved Concentric Reducer .....	3,467.58	111.94
For Galvanized Fittings, Add	494.97	
23 21 13 23-1795 EA 12" x 6", Grooved Concentric Reducer .....	1,496.08	130.68
For Galvanized Fittings, Add	195.02	
23 21 13 23-1796 EA 12" x 8", Grooved Concentric Reducer .....	2,163.07	140.14
For Galvanized Fittings, Add	292.95	
23 21 13 23-1797 EA 12" x 10", Grooved Concentric Reducer .....	2,177.95	150.00
For Galvanized Fittings, Add	292.95	
23 21 13 23-1798 EA 14" x 6", Grooved Concentric Reducer .....	6,837.79	140.84
For Galvanized Fittings, Add	203.44	
23 21 13 23-1799 EA 14" x 8", Grooved Concentric Reducer .....	4,114.92	150.28
For Galvanized Fittings, Add	119.41	
23 21 13 23-1800 EA 14" x 10", Grooved Concentric Reducer .....	3,524.23	160.16
For Galvanized Fittings, Add	100.82	
23 21 13 23-1801 EA 14" x 12", Grooved Concentric Reducer .....	3,544.63	173.69
For Galvanized Fittings, Add	100.82	
23 21 13 23-1802 EA 16" x 8", Grooved Concentric Reducer .....	6,233.27	160.30
For Galvanized Fittings, Add	183.98	
23 21 13 23-1803 EA 16" x 10", Grooved Concentric Reducer .....	5,795.96	170.16
For Galvanized Fittings, Add	170.10	
23 21 13 23-1804 EA 16" x 12", Grooved Concentric Reducer .....	5,373.18	183.84
For Galvanized Fittings, Add	156.50	
23 21 13 23-1805 EA 16" x 14", Grooved Concentric Reducer .....	5,388.41	193.99
For Galvanized Fittings, Add	156.50	
23 21 13 23-1806 EA 18" x 10", Grooved Concentric Reducer .....	8,093.21	179.61
For Galvanized Fittings, Add	240.20	
23 21 13 23-1807 EA 18" x 12", Grooved Concentric Reducer .....	7,344.12	193.14
For Galvanized Fittings, Add	216.57	
23 21 13 23-1808 EA 18" x 14", Grooved Concentric Reducer .....	6,691.29	203.30
For Galvanized Fittings, Add	196.06	
23 21 13 23-1809 EA 18" x 16", Grooved Concentric Reducer .....	6,706.51	213.58
For Galvanized Fittings, Add	196.06	
23 21 13 23-1810 EA 20" x 10", Grooved Concentric Reducer .....	8,900.79	184.26
For Galvanized Fittings, Add	264.77	
23 21 13 23-1811 EA 20" x 12", Grooved Concentric Reducer .....	7,649.75	197.94
For Galvanized Fittings, Add	225.74	
23 21 13 23-1812 EA 20" x 14", Grooved Concentric Reducer .....	7,664.99	208.08
For Galvanized Fittings, Add	225.74	
23 21 13 23-1813 EA 20" x 16", Grooved Concentric Reducer .....	6,850.41	218.10
For Galvanized Fittings, Add	200.27	
23 21 13 23-1814 EA 20" x 18", Grooved Concentric Reducer .....	7,297.66	227.54
For Galvanized Fittings, Add	213.56	
23 21 13 23-1815 EA 24" x 10", Grooved Concentric Reducer .....	19,525.96	204.99
For Galvanized Fittings, Add	590.01	
23 21 13 23-1816 EA 24" x 12", Grooved Concentric Reducer .....	19,082.37	218.66
For Galvanized Fittings, Add	575.76	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1817	EA	24" x 14", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	16,648.53 500.58	228.67
23 21	13 23-1818	EA	24" x 16", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	16,663.87 500.58	238.96
23 21	13 23-1819	EA	24" x 18", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	14,289.99 427.28	248.27
23 21	13 23-1820	EA	24" x 20", Grooved Concentric Reducer <i>For Galvanized Fittings, Add</i>	13,064.37 389.43	253.06
<b>23 21 13 23-1821 Grooved Eccentric Reducers (23 21 13 23-1727)</b>					
Note: Victaulic No. 51					
23 21	13 23-1822	EA	1-1/2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	444.85 50.00	19.32
23 21	13 23-1823	EA	1-1/2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	405.77 45.13	20.16
23 21	13 23-1824	EA	1-1/2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	399.00 44.15	21.15
23 21	13 23-1825	EA	2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	842.78 97.15	22.98
23 21	13 23-1826	EA	2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	450.53 49.83	23.96
23 21	13 23-1827	EA	2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	491.87 54.63	24.96
23 21	13 23-1828	EA	2" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	422.13 45.73	27.77
23 21	13 23-1829	EA	2-1/2" x 3/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,093.95 126.82	25.94
23 21	13 23-1830	EA	2-1/2" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,023.22 118.15	26.93
23 21	13 23-1831	EA	2-1/2" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	612.53 68.62	27.77
23 21	13 23-1832	EA	2-1/2" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	498.16 54.37	30.59
23 21	13 23-1833	EA	2-1/2" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	233.67 21.90	34.26
23 21	13 23-1834	EA	3" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,100.83 126.74	31.01
23 21	13 23-1835	EA	3" x 1-1/4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,002.40 114.73	32.01
23 21	13 23-1836	EA	3" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	574.66 62.89	34.26
23 21	13 23-1837	EA	3" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	266.50 25.17	38.06
23 21	13 23-1838	EA	3" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	277.43 25.17	45.39
23 21	13 23-1839	EA	3-1/2" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,231.75 139.24	48.92
23 21	13 23-1840	EA	4" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,194.99 366.53	38.48
23 21	13 23-1841	EA	4" x 1-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,355.29 221.67	41.87
23 21	13 23-1842	EA	4" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	324.41 43.91	45.67
23 21	13 23-1843	EA	4" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	329.35 43.91	48.92
23 21	13 23-1844	EA	4" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	334.99 43.91	52.72
23 21	13 23-1845	EA	5" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,504.95 244.44	53.15
23 21	13 23-1846	EA	5" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,298.89 208.25	56.39
23 21	13 23-1847	EA	5" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	1,263.12 201.15	60.19
23 21	13 23-1848	EA	5" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	450.24 59.81	67.68
23 21	13 23-1849	EA	6" x 1", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,301.67 413.44	57.38
23 21	13 23-1850	EA	6" x 2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,117.16 377.04	64.43
23 21	13 23-1851	EA	6" x 2-1/2", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,507.57 448.97	67.68
23 21	13 23-1852	EA	6" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	571.45 86.64	71.48
23 21	13 23-1853	EA	6" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	524.82 75.83	78.95
23 21	13 23-1854	EA	6" x 5", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	617.21 90.97	86.56
23 21	13 23-1855	EA	8" x 3", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,468.95 438.08	80.92
23 21	13 23-1856	EA	8" x 4", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,184.26 382.86	88.39
23 21	13 23-1857	EA	8" x 5", Grooved Eccentric Reducer <i>For Galvanized Fittings, Add</i>	2,054.07 356.46	95.87





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1858 EA 8" x 6", Grooved Eccentric Reducer .....	984.77	107.14
For Galvanized Fittings, Add	153.77	
23 21 13 23-1859 EA 10" x 4", Grooved Eccentric Reducer .....	3,912.38	98.26
For Galvanized Fittings, Add	702.55	
23 21 13 23-1860 EA 10" x 5", Grooved Eccentric Reducer .....	3,705.84	105.74
For Galvanized Fittings, Add	661.91	
23 21 13 23-1861 EA 10" x 6", Grooved Eccentric Reducer .....	2,850.46	117.02
For Galvanized Fittings, Add	499.14	
23 21 13 23-1862 EA 10" x 8", Grooved Eccentric Reducer .....	2,453.59	126.46
For Galvanized Fittings, Add	422.46	
23 21 13 23-1863 EA 12" x 4", Grooved Eccentric Reducer .....	3,996.13	111.94
For Galvanized Fittings, Add	577.70	
23 21 13 23-1864 EA 12" x 6", Grooved Eccentric Reducer .....	3,769.41	130.68
For Galvanized Fittings, Add	539.24	
23 21 13 23-1865 EA 12" x 8", Grooved Eccentric Reducer .....	3,692.08	140.14
For Galvanized Fittings, Add	525.44	
23 21 13 23-1866 EA 12" x 10", Grooved Eccentric Reducer .....	3,343.79	150.00
For Galvanized Fittings, Add	470.64	
23 21 13 23-1867 EA 14" x 6", Grooved Eccentric Reducer .....	9,227.70	140.84
For Galvanized Fittings, Add	276.81	
23 21 13 23-1868 EA 14" x 8", Grooved Eccentric Reducer .....	5,989.82	150.28
For Galvanized Fittings, Add	176.97	
23 21 13 23-1869 EA 14" x 10", Grooved Eccentric Reducer .....	5,727.49	160.16
For Galvanized Fittings, Add	168.46	
23 21 13 23-1870 EA 14" x 12", Grooved Eccentric Reducer .....	5,747.89	173.69
For Galvanized Fittings, Add	168.46	
23 21 13 23-1871 EA 16" x 8", Grooved Eccentric Reducer .....	10,198.02	160.30
For Galvanized Fittings, Add	305.70	
23 21 13 23-1872 EA 16" x 10", Grooved Eccentric Reducer .....	9,456.80	170.16
For Galvanized Fittings, Add	282.49	
23 21 13 23-1873 EA 16" x 12", Grooved Eccentric Reducer .....	8,921.76	183.84
For Galvanized Fittings, Add	265.44	
23 21 13 23-1874 EA 16" x 14", Grooved Eccentric Reducer .....	8,936.99	193.99
For Galvanized Fittings, Add	265.44	
23 21 13 23-1875 EA 18" x 10", Grooved Eccentric Reducer .....	12,784.31	179.61
For Galvanized Fittings, Add	384.21	
23 21 13 23-1876 EA 18" x 12", Grooved Eccentric Reducer .....	12,041.25	193.14
For Galvanized Fittings, Add	360.78	
23 21 13 23-1877 EA 18" x 14", Grooved Eccentric Reducer .....	10,981.80	203.30
For Galvanized Fittings, Add	327.78	
23 21 13 23-1878 EA 18" x 16", Grooved Eccentric Reducer .....	10,997.02	213.58
For Galvanized Fittings, Add	327.78	
23 21 13 23-1879 EA 20" x 10", Grooved Eccentric Reducer .....	16,768.09	184.26
For Galvanized Fittings, Add	506.30	
23 21 13 23-1880 EA 20" x 12", Grooved Eccentric Reducer .....	12,495.54	197.94
For Galvanized Fittings, Add	374.51	
23 21 13 23-1881 EA 20" x 14", Grooved Eccentric Reducer .....	11,748.15	208.08
For Galvanized Fittings, Add	351.09	
23 21 13 23-1882 EA 20" x 16", Grooved Eccentric Reducer .....	11,578.13	218.10
For Galvanized Fittings, Add	345.41	
23 21 13 23-1883 EA 20" x 18", Grooved Eccentric Reducer .....	11,161.30	227.54
For Galvanized Fittings, Add	332.18	
23 21 13 23-1884 EA 24" x 12", Grooved Eccentric Reducer .....	24,201.93	218.66
For Galvanized Fittings, Add	732.93	
23 21 13 23-1885 EA 24" x 14", Grooved Eccentric Reducer .....	20,690.41	228.67
For Galvanized Fittings, Add	624.67	
23 21 13 23-1886 EA 24" x 16", Grooved Eccentric Reducer .....	20,705.75	238.96
For Galvanized Fittings, Add	624.67	
23 21 13 23-1887 EA 24" x 18", Grooved Eccentric Reducer .....	19,564.69	248.27
For Galvanized Fittings, Add	589.21	
23 21 13 23-1888 EA 24" x 20", Grooved Eccentric Reducer .....	17,893.55	253.06
For Galvanized Fittings, Add	537.69	
23 21 13 23-1889 Grooved, Close Nipple <small>(23 21 13 23-1727)</small>		
Note: Victaulic No. 143		
23 21 13 23-1890 EA 1-1/4" Ductile Iron, Grooved, Close Nipple .....	68.56	18.61
For Galvanized Fittings, Add	7.26	
For 300 LB Rating, Add	6.05	
For Galvanized Fittings, Add	10.33	
23 21 13 23-1891 EA 1-1/2" Ductile Iron, Grooved, Close Nipple .....	79.23	23.26
For Galvanized Fittings, Add	7.92	
For 300 LB Rating, Add	6.60	
For Galvanized Fittings, Add	11.26	
23 21 13 23-1892 EA 2" Ductile Iron, Grooved, Close Nipple .....	99.54	30.71
For Galvanized Fittings, Add	9.54	
For 300 LB Rating, Add	7.95	
For Galvanized Fittings, Add	13.57	
23 21 13 23-1893 EA 2-1/2" Ductile Iron, Grooved, Close Nipple .....	119.04	37.22
For Galvanized Fittings, Add	11.28	
For 300 LB Rating, Add	9.40	
For Galvanized Fittings, Add	16.04	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-1894 Grooved Caps</b> <small>(23 21 13 23-1727)</small>		
Note: Victaulic No. 60		
23 21 13 23-1895 EA 1" Carbon Steel Grooved Cap .....	147.12	5.78
23 21 13 23-1896 EA 1-1/4" Carbon Steel Grooved Cap .....	149.94	7.19
23 21 13 23-1897 EA 1-1/2" Carbon Steel Grooved Cap .....	153.04	8.74
23 21 13 23-1898 EA 2" Carbon Steel Grooved Cap .....	158.54	11.56
23 21 13 23-1899 EA 2-1/2" Carbon Steel Grooved Cap .....	163.62	14.10
23 21 13 23-1900 EA 3" Carbon Steel Grooved Cap .....	169.54	17.05
23 21 13 23-1901 EA 4" Carbon Steel Grooved Cap .....	189.40	22.56
23 21 13 23-1902 EA 5" Carbon Steel Grooved Cap .....	388.02	28.06
23 21 13 23-1903 EA 6" Carbon Steel Grooved Cap .....	404.90	36.79
23 21 13 23-1904 EA 8" Carbon Steel Grooved Cap .....	717.65	43.70
23 21 13 23-1905 EA 10" Carbon Steel Grooved Cap .....	1,201.08	51.03
23 21 13 23-1906 EA 12" Carbon Steel Grooved Cap .....	2,044.17	61.19
<b>23 21 13 23-1907 Grooved Couplings</b> <small>(23 21 13 23-1484)</small>		
<b>23 21 13 23-1908 Flexible Grooved Coupling</b> <small>(23 21 13 23-1907)</small>		
Note: Victaulic Style 77		
23 21 13 23-1909 EA 3/4" Grooved Standard Coupling .....	32.48	7.61
For Galvanized Fittings, Add	5.87	
23 21 13 23-1910 EA 1" Grooved Standard Coupling .....	32.48	7.61
For Galvanized Fittings, Add	5.87	
23 21 13 23-1911 EA 1-1/4" Grooved Standard Coupling .....	42.30	9.58
For Galvanized Fittings, Add	7.81	
23 21 13 23-1912 EA 1-1/2" Grooved Standard Coupling .....	47.69	11.42
For Galvanized Fittings, Add	8.54	
23 21 13 23-1913 EA 2" Grooved Standard Coupling .....	55.26	15.37
For Galvanized Fittings, Add	9.02	
23 21 13 23-1914 EA 2-1/2" Grooved Standard Coupling .....	66.64	18.75
For Galvanized Fittings, Add	10.80	
23 21 13 23-1915 EA 3" Grooved Standard Coupling .....	72.08	22.41
For Galvanized Fittings, Add	10.80	
23 21 13 23-1916 EA 3-1/2" Grooved Standard Coupling .....	101.53	26.23
For Galvanized Fittings, Add	17.40	
23 21 13 23-1917 EA 4" Grooved Standard Coupling .....	107.04	29.89
For Galvanized Fittings, Add	17.40	
23 21 13 23-1918 EA 5" Grooved Standard Coupling .....	151.39	37.50
For Galvanized Fittings, Add	26.68	
23 21 13 23-1919 EA 6" Grooved Standard Coupling .....	186.05	48.92
For Galvanized Fittings, Add	31.53	
23 21 13 23-1920 EA 8" Grooved Standard Coupling .....	270.98	58.36
For Galvanized Fittings, Add	51.40	
23 21 13 23-1921 EA 10" Grooved Standard Coupling .....	409.98	69.93
For Galvanized Fittings, Add	85.43	
23 21 13 23-1922 EA 12" Grooved Standard Coupling .....	462.10	76.55
For Galvanized Fittings, Add	97.26	
23 21 13 23-1923 EA 14" Grooved Standard Coupling .....	574.97	102.07
For Galvanized Fittings, Add	118.16	
23 21 13 23-1924 EA 16" Grooved Standard Coupling .....	737.09	122.51
For Galvanized Fittings, Add	154.99	
23 21 13 23-1925 EA 18" Grooved Standard Coupling .....	852.22	136.04
For Galvanized Fittings, Add	181.51	
23 21 13 23-1926 EA 20" Grooved Standard Coupling .....	1,249.27	153.11
For Galvanized Fittings, Add	285.55	
23 21 13 23-1927 EA 24" Grooved Standard Coupling .....	1,400.80	188.35
For Galvanized Fittings, Add	313.15	
<b>23 21 13 23-1928 Zero-Flex® Rigid Coupling</b> <small>(23 21 13 23-1907)</small>		
Note: Victaulic Style 07		
23 21 13 23-1929 EA 1" Grooved Rigid Coupling .....	40.68	7.61
For Galvanized Fittings, Add	7.15	
23 21 13 23-1930 EA 1-1/4" Grooved Rigid Coupling .....	43.57	9.58
For Galvanized Fittings, Add	7.15	
23 21 13 23-1931 EA 1-1/2" Grooved Rigid Coupling .....	46.37	11.42
For Galvanized Fittings, Add	7.15	
23 21 13 23-1932 EA 2" Grooved Rigid Coupling .....	52.96	15.37
For Galvanized Fittings, Add	7.33	
23 21 13 23-1933 EA 2-1/2" Grooved Rigid Coupling .....	62.56	18.75
For Galvanized Fittings, Add	8.45	
23 21 13 23-1934 EA 3" Grooved Rigid Coupling .....	68.00	22.41
For Galvanized Fittings, Add	8.45	
23 21 13 23-1935 EA 3-1/2" Grooved Rigid Coupling .....	79.69	26.23
For Galvanized Fittings, Add	9.87	
23 21 13 23-1936 EA 4" Grooved Rigid Coupling .....	102.01	29.89
For Galvanized Fittings, Add	13.99	
23 21 13 23-1937 EA 5" Grooved Rigid Coupling .....	130.29	37.50
For Galvanized Fittings, Add	18.17	
23 21 13 23-1938 EA 6" Grooved Rigid Coupling .....	172.57	48.92
For Galvanized Fittings, Add	24.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1939 EA 8" Grooved Rigid Coupling .....	243.60	58.36
For Galvanized Fittings, Add	38.27	
23 21 13 23-1940 EA 10" Grooved Rigid Coupling .....	384.76	69.93
For Galvanized Fittings, Add	68.57	
23 21 13 23-1941 EA 12" Grooved Rigid Coupling .....	427.92	76.55
For Galvanized Fittings, Add	76.73	
23 21 13 23-1942 EA 14" Grooved Rigid Coupling .....	562.16	102.07
For Galvanized Fittings, Add	100.25	
23 21 13 23-1943 EA 16" Grooved Rigid Coupling .....	717.23	122.51
For Galvanized Fittings, Add	130.75	
23 21 13 23-1944 EA 18" Grooved Rigid Coupling .....	820.88	136.04
For Galvanized Fittings, Add	151.15	
23 21 13 23-1945 EA 20" Grooved Rigid Coupling .....	963.94	153.11
For Galvanized Fittings, Add	179.95	
23 21 13 23-1946 EA 24" Grooved Rigid Coupling .....	1,364.27	188.35
For Galvanized Fittings, Add	265.05	
<b>23 21 13 23-1947 Large Diameter Grooved Coupling</b> (23 21 13 23-1907)		
Note: Victaulic Style 770		
23 21 13 23-1948 EA 28" Grooved Coupling.....	1,354.30	37.50
For Galvanized Fittings, Add	181.75	
23 21 13 23-1949 EA 30" Grooved Coupling.....	1,568.04	48.92
For Galvanized Fittings, Add	209.25	
23 21 13 23-1950 EA 32" Grooved Coupling.....	2,325.69	58.36
For Galvanized Fittings, Add	313.36	
23 21 13 23-1951 EA 36" Grooved Coupling.....	3,086.82	69.93
For Galvanized Fittings, Add	417.47	
23 21 13 23-1952 EA 42" Grooved Coupling.....	6,145.41	76.55
For Galvanized Fittings, Add	844.30	
<b>23 21 13 23-1953 Flexible Coupling</b> (23 21 13 23-1907)		
Note: Victaulic Style 75		
23 21 13 23-1954 EA 1-1/2" Grooved Flexible Coupling .....	43.72	11.42
For Galvanized Fittings, Add	6.79	
23 21 13 23-1955 EA 2" Grooved Flexible Coupling .....	50.24	15.37
For Galvanized Fittings, Add	6.96	
23 21 13 23-1956 EA 2-1/2" Grooved Flexible Coupling .....	59.59	18.75
For Galvanized Fittings, Add	8.07	
23 21 13 23-1957 EA 3" Grooved Flexible Coupling .....	70.16	22.41
For Galvanized Fittings, Add	9.38	
23 21 13 23-1958 EA 3-1/2" Grooved Flexible Coupling .....	91.31	26.23
For Galvanized Fittings, Add	13.29	
23 21 13 23-1959 EA 4" Grooved Flexible Coupling .....	96.82	29.89
For Galvanized Fittings, Add	13.29	
23 21 13 23-1960 EA 5" Grooved Flexible Coupling .....	131.03	37.50
For Galvanized Fittings, Add	19.18	
23 21 13 23-1961 EA 6" Grooved Flexible Coupling .....	163.67	48.92
For Galvanized Fittings, Add	23.10	
23 21 13 23-1962 EA 8" Grooved Flexible Coupling .....	229.26	58.36
For Galvanized Fittings, Add	36.31	
<b>23 21 13 23-1963 Installation-Ready™ Coupling</b> (23 21 13 23-1907)		
Note: Victaulic Style 009N		
23 21 13 23-1964 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling .....	81.90	7.12
For Galvanized Fittings, Add	18.20	
23 21 13 23-1965 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling .....	85.47	8.52
For Galvanized Fittings, Add	18.88	
23 21 13 23-1966 EA 2" Ductile Iron, Installation-Ready™ Coupling .....	99.43	11.44
For Galvanized Fittings, Add	21.02	
23 21 13 23-1967 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling .....	115.57	13.87
For Galvanized Fittings, Add	24.21	
23 21 13 23-1968 EA 3" Ductile Iron, Installation-Ready™ Coupling .....	132.25	16.65
For Galvanized Fittings, Add	27.39	
23 21 13 23-1969 EA 4" Ductile Iron, Installation-Ready™ Coupling .....	183.97	22.24
For Galvanized Fittings, Add	38.47	
23 21 13 23-1970 EA 5" Ductile Iron, Installation-Ready™ Coupling .....	287.94	27.82
For Galvanized Fittings, Add	62.92	
23 21 13 23-1971 EA 6" Ductile Iron, Installation-Ready™ Coupling .....	348.81	36.38
For Galvanized Fittings, Add	75.18	
23 21 13 23-1972 EA 8" Ductile Iron, Installation-Ready™ Coupling .....	556.23	43.27
For Galvanized Fittings, Add	125.61	
<b>23 21 13 23-1973 Grooved Strainers And Suction Diffusers</b> (23 21 13 23-1484)		
<b>23 21 13 23-1974 Grooved Wye Strainers</b> (23 21 13 23-1973)		
Note: Victaulic Style 732		
23 21 13 23-1975 EA 2" Grooved Wye Strainer.....	2,531.02	31.01
23 21 13 23-1976 EA 2-1/2" Grooved Wye Strainer.....	2,666.32	37.64
23 21 13 23-1977 EA 3" Grooved Wye Strainer.....	2,999.72	45.11
23 21 13 23-1978 EA 4" Grooved Wye Strainer.....	3,408.28	60.19

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR		DESCRIPTION		TOTAL DIRECT	DEMOLITION
CSI	UOM			UNIT COST	UNIT COST
23 21 13 23-1979	EA	5" Grooved Wye Strainer .....		4,919.31	75.29
23 21 13 23-1980	EA	6" Grooved Wye Strainer .....		5,365.52	97.84
23 21 13 23-1981	EA	8" Grooved Wye Strainer .....		8,175.30	116.59
23 21 13 23-1982	EA	10" Grooved Wye Strainer .....		13,065.08	136.33
23 21 13 23-1983	EA	12" Grooved Wye Strainer .....		22,712.08	163.68
<b>23 21 13 23-1984 Grooved Tee Type Strainers (23 21 13 23-1973)</b>					
Note: Victaulic Style 730					
23 21 13 23-1985	EA	1-1/2" Grooved Tee Type Strainer .....		1,952.49	23.54
23 21 13 23-1986	EA	2" Grooved Tee Type Strainer .....		2,500.35	31.01
23 21 13 23-1987	EA	2-1/2" Grooved Tee Type Strainer .....		2,634.44	37.64
23 21 13 23-1988	EA	3" Grooved Tee Type Strainer .....		2,963.71	45.11
23 21 13 23-1989	EA	4" Grooved Tee Type Strainer .....		3,367.45	60.19
23 21 13 23-1990	EA	5" Grooved Tee Type Strainer .....		4,859.87	75.29
23 21 13 23-1991	EA	6" Grooved Tee Type Strainer .....		5,301.43	97.84
23 21 13 23-1992	EA	8" Grooved Tee Type Strainer .....		8,076.06	116.59
23 21 13 23-1993	EA	10" Grooved Tee Type Strainer .....		11,809.08	136.33
23 21 13 23-1994	EA	12" Grooved Tee Type Strainer .....		15,183.69	163.68
23 21 13 23-1995	EA	14" Grooved Tee Type Strainer .....		53,523.91	184.26
23 21 13 23-1996	EA	16" Grooved Tee Type Strainer .....		66,484.84	204.00
23 21 13 23-1997	EA	18" Grooved Tee Type Strainer .....		87,378.68	222.89
<b>23 21 13 23-1998 Grooved Suction Diffuser (23 21 13 23-1973)</b>					
Note: Victaulic Style 731					
23 21 13 23-1999	EA	2-1/2" Grooved x 2" Flanged Suction Diffuser .....		5,147.46	34.82
23 21 13 23-2000	EA	3" Grooved x 2" Flanged Suction Diffuser .....		5,464.94	38.48
23 21 13 23-2001	EA	3" Grooved x 2-1/2" Flanged Suction Diffuser .....		3,954.90	45.11
23 21 13 23-2002	EA	3" Grooved x 3" Flanged Suction Diffuser .....		4,011.86	48.92
23 21 13 23-2003	EA	4" Grooved x 2-1/2" Flanged Suction Diffuser .....		4,344.22	48.92
23 21 13 23-2004	EA	4" Grooved x 3" Flanged Suction Diffuser .....		4,686.86	52.72
23 21 13 23-2005	EA	4" Grooved x 4" Flanged Suction Diffuser .....		5,415.84	52.72
23 21 13 23-2006	EA	5" Grooved x 4" Flanged Suction Diffuser .....		6,050.00	67.68
23 21 13 23-2007	EA	5" Grooved x 5" Flanged Suction Diffuser .....		6,357.50	71.48
23 21 13 23-2008	EA	6" Grooved x 4" Flanged Suction Diffuser .....		6,460.77	78.95
23 21 13 23-2009	EA	6" Grooved x 5" Flanged Suction Diffuser .....		7,716.69	86.56
23 21 13 23-2010	EA	6" Grooved x 6" Flanged Suction Diffuser .....		8,015.79	92.20
23 21 13 23-2011	EA	8" Grooved x 5" Flanged Suction Diffuser .....		8,225.24	95.87
23 21 13 23-2012	EA	8" Grooved x 6" Flanged Suction Diffuser .....		8,682.54	107.14
23 21 13 23-2013	EA	8" Grooved x 8" Flanged Suction Diffuser .....		14,839.81	116.59
23 21 13 23-2014	EA	10" Grooved x 8" Flanged Suction Diffuser .....		16,737.20	126.04
23 21 13 23-2015	EA	10" Grooved x 10" Flanged Suction Diffuser .....		20,135.92	130.68
23 21 13 23-2016	EA	12" Grooved x 10" Flanged Suction Diffuser .....		23,827.64	150.42
23 21 13 23-2017	EA	12" Grooved x 12" Flanged Suction Diffuser .....		33,069.66	159.88
23 21 13 23-2018	EA	14" Grooved x 10" Flanged Suction Diffuser .....		30,793.85	159.88
23 21 13 23-2019	EA	14" Grooved x 12" Flanged Suction Diffuser .....		34,391.17	173.97
23 21 13 23-2020	EA	14" Grooved x 14" Flanged Suction Diffuser .....		41,722.90	184.26
23 21 13 23-2021	EA	16" Grooved x 14" Flanged Suction Diffuser .....		42,955.01	193.70
<b>23 21 13 23-2022 Grooved Steel Valves (23 21 13 23-1484)</b>					
<b>23 21 13 23-2023 Grooved Butterfly Valves With Standard Trim (23 21 13 23-2022)</b>					
23 21 13 23-2024	EA	1-1/2" Butterfly Valve, Grooved, With Standard Trim .....		295.25	15.37
23 21 13 23-2025	EA	2" Butterfly Valve, Grooved, With Standard Trim .....		302.52	20.16
23 21 13 23-2026	EA	3" Butterfly Valve, Grooved, With Standard Trim .....		495.34	29.89
23 21 13 23-2027	EA	4" Butterfly Valve, Grooved, With Standard Trim .....		665.07	39.34
23 21 13 23-2028	EA	6" Butterfly Valve, Grooved, With Standard Trim .....		1,444.70	64.43
23 21 13 23-2029	EA	8" Butterfly Valve, Grooved, With Standard Trim .....		2,002.54	90.65
23 21 13 23-2030	EA	10" Butterfly Valve, Grooved, With Standard Trim .....		3,002.87	122.51
<b>23 21 13 23-2031 Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-2022)</b>					
23 21 13 23-2032	EA	1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim .....		441.07	15.37
23 21 13 23-2033	EA	2" Butterfly Valve, Grooved, With Stainless Steel Trim .....		448.34	20.16
23 21 13 23-2034	EA	3" Butterfly Valve, Grooved, With Stainless Steel Trim .....		693.01	29.89
23 21 13 23-2035	EA	4" Butterfly Valve, Grooved, With Stainless Steel Trim .....		882.19	39.34
23 21 13 23-2036	EA	6" Butterfly Valve, Grooved, With Stainless Steel Trim .....		1,684.50	64.43
23 21 13 23-2037	EA	8" Butterfly Valve, Grooved, With Stainless Steel Trim .....		2,793.24	90.65
23 21 13 23-2038	EA	10" Butterfly Valve, Grooved, With Stainless Steel Trim .....		4,396.31	122.51
<b>23 21 13 23-2039 Grooved Ball Valves With Standard Trim And Handle (23 21 13 23-2022)</b>					
Note: Victaulic No. 721					
23 21 13 23-2040	EA	1-1/2" Ball Valve, Grooved, With Standard Trim .....		249.92	15.08
23 21 13 23-2041	EA	2" Ball Valve, Grooved, With Standard Trim .....		287.16	20.72
23 21 13 23-2042	EA	2-1/2" Ball Valve, Grooved, With Standard Trim .....		648.67	25.38
23 21 13 23-2043	EA	3" Ball Valve, Grooved, With Standard Trim .....		1,059.89	30.03
23 21 13 23-2044	EA	4" Ball Valve, Grooved, With Standard Trim .....		1,648.13	39.48
23 21 13 23-2045	EA	6" Ball Valve, Grooved, With Standard Trim .....		5,105.33	64.85



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2046				<b>Grooved Ball Valves With Stainless Steel Trim And Handle</b> <small>(23 21 13 23-2022)</small>		
				Note: Victaulic No. 721		
23 21 13 23-2047	EA			1-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	265.89	15.08
23 21 13 23-2048	EA			2" Ball Valve, Grooved, With Stainless Steel Trim.....	452.95	20.72
23 21 13 23-2049	EA			2-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	1,171.44	25.38
23 21 13 23-2050	EA			3" Ball Valve, Grooved, With Stainless Steel Trim.....	1,513.94	30.03
23 21 13 23-2051	EA			4" Ball Valve, Grooved, With Stainless Steel Trim.....	2,067.72	39.48
23 21 13 23-2052	EA			6" Ball Valve, Grooved, With Stainless Steel Trim.....	5,625.26	64.85
23 21 13 23-2053				<b>Grooved Check Valves</b> <small>(23 21 13 23-2022)</small>		
				Note: Victaulic No. 712		
23 21 13 23-2054	EA			2" Check Valve, Grooved.....	378.43	20.72
23 21 13 23-2055	EA			2-1/2" Check Valve, Grooved.....	611.81	25.38
23 21 13 23-2056	EA			3" Check Valve, Grooved.....	713.00	30.03
23 21 13 23-2057	EA			4" Check Valve, Grooved.....	1,009.64	39.48
23 21 13 23-2058				<b>Grooved Vic-Check Check Valves</b> <small>(23 21 13 23-2022)</small>		
				Note: Victaulic No. 716		
23 21 13 23-2059	EA			2-1/2" "Vic-Check" Check Valve, Grooved.....	490.57	25.38
23 21 13 23-2060	EA			3" "Vic-Check" Check Valve, Grooved.....	497.43	30.03
23 21 13 23-2061	EA			4" "Vic-Check" Check Valve, Grooved.....	624.00	39.48
23 21 13 23-2062	EA			6" "Vic-Check" Check Valve, Grooved.....	1,212.39	64.85
23 21 13 23-2063	EA			8" "Vic-Check" Check Valve, Grooved.....	1,659.42	90.23
23 21 13 23-2064	EA			10" "Vic-Check" Check Valve, Grooved.....	4,595.19	122.23
23 21 13 23-2065	EA			12" "Vic-Check" Check Valve, Grooved.....	5,440.32	141.12
23 21 13 23-2066				<b>Grooved Plug Valves With Lever Operator</b> <small>(23 21 13 23-2022)</small>		
				Note: Victaulic No. 377		
23 21 13 23-2067	EA			3" Balancing Plug Valve, Grooved, With Lever Handle.....	743.25	30.03
23 21 13 23-2068	EA			4" Balancing Plug Valve, Grooved, With Lever Handle.....	827.54	39.48
23 21 13 23-2069	EA			6" Balancing Plug Valve, Grooved, With Lever Handle.....	1,474.88	64.85
23 21 13 23-2070				<b>Grooved Plug Valve With Gear Operator</b> <small>(23 21 13 23-2022)</small>		
				Note: Victaulic No. 377		
23 21 13 23-2071	EA			3" Balancing Plug Valve, Grooved, With Gear Operator.....	1,306.46	30.03
23 21 13 23-2072	EA			4" Balancing Plug Valve, Grooved, With Gear Operator.....	1,390.80	39.48
23 21 13 23-2073	EA			6" Balancing Plug Valve, Grooved, With Gear Operator.....	2,038.14	64.85
23 21 13 23-2074	EA			8" Balancing Plug Valve, Grooved, With Gear Operator.....	2,727.88	90.23
23 21 13 23-2075	EA			10" Balancing Plug Valve, Grooved, With Gear Operator.....	4,271.91	122.23
23 21 13 23-2076	EA			12" Balancing Plug Valve, Grooved, With Gear Operator.....	6,167.24	141.12
23 21 13 23-2077				<b>Prepare Pipe For Groove</b> <small>(23 21 13 23-1484)</small>		
23 21 13 23-2078				<b>Cut Grooved Pipe</b> <small>(23 21 13 23-2077)</small>		
				Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2079	EA			Cut 3/4" Groove Pipe.....	14.77	
23 21 13 23-2080	EA			Cut 1" Groove Pipe.....	16.04	
23 21 13 23-2081	EA			Cut 1-1/4" Groove Pipe.....	18.10	
23 21 13 23-2082	EA			Cut 1-1/2" Groove Pipe.....	19.69	
23 21 13 23-2083	EA			Cut 2" Groove Pipe.....	21.59	
23 21 13 23-2084	EA			Cut 2-1/2" Groove Pipe.....	23.38	
23 21 13 23-2085	EA			Cut 3" Groove Pipe.....	25.51	
23 21 13 23-2086	EA			Cut 3-1/2" Groove Pipe.....	27.05	
23 21 13 23-2087	EA			Cut 4" Groove Pipe.....	28.78	
23 21 13 23-2088	EA			Cut 5" Groove Pipe.....	31.18	
23 21 13 23-2089	EA			Cut 6" Groove Pipe.....	32.07	
23 21 13 23-2090	EA			Cut 8" Groove Pipe.....	41.57	
23 21 13 23-2091	EA			Cut 10" Groove Pipe.....	59.08	
23 21 13 23-2092	EA			Cut 12" Groove Pipe.....	74.83	
23 21 13 23-2093	EA			Cut 14" Groove Pipe.....	112.24	
23 21 13 23-2094	EA			Cut 16" Groove Pipe.....	118.16	
23 21 13 23-2095	EA			Cut 18" Groove Pipe.....	124.72	
23 21 13 23-2096	EA			Cut 20" Groove Pipe.....	132.05	
23 21 13 23-2097	EA			Cut 24" Groove Pipe.....	149.66	
23 21 13 23-2098				<b>Roll Grooved Pipe</b> <small>(23 21 13 23-2077)</small>		
				Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
23 21 13 23-2099	EA			Roll 3/4" Groove.....	8.44	
23 21 13 23-2100	EA			Roll 1" Groove.....	9.84	
23 21 13 23-2101	EA			Roll 1-1/4" Groove.....	11.22	
23 21 13 23-2102	EA			Roll 1-1/2" Groove.....	12.61	
23 21 13 23-2103	EA			Roll 2" Groove.....	19.36	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2104	EA	Roll 2-1/2" Groove .....	20.41	
23 21	13 23-2105	EA	Roll 3" Groove.....	22.44	
23 21	13 23-2106	EA	Roll 3-1/2" Groove .....	23.88	
23 21	13 23-2107	EA	Roll 4" Groove.....	26.10	
23 21	13 23-2108	EA	Roll 5" Groove.....	26.73	
23 21	13 23-2109	EA	Roll 6" Groove.....	28.07	
23 21	13 23-2110	EA	Roll 8" Groove.....	34.02	
23 21	13 23-2111	EA	Roll 10" Groove .....	38.70	
23 21	13 23-2112	EA	Roll 12" Groove.....	48.80	
23 21	13 23-2113	EA	Roll 14" Groove.....	74.83	
23 21	13 23-2114	EA	Roll 16" Groove.....	80.17	
23 21	13 23-2115	EA	Roll 18" Groove.....	83.14	
23 21	13 23-2116	EA	Roll 20" Groove.....	89.80	
23 21	13 23-2117	EA	Roll 24" Groove.....	97.60	
<b>23 21 13 23-2118 Standard Gaskets <small>(23 21 13 23-2077)</small></b>					
Note: For use on replacement of existing gaskets.					
23 21	13 23-2119	EA	3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	21.00	
23 21	13 23-2120	EA	1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	22.18	
23 21	13 23-2121	EA	1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	23.39	
23 21	13 23-2122	EA	1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	25.73	
23 21	13 23-2123	EA	2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	26.57	
23 21	13 23-2124	EA	2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	30.65	
23 21	13 23-2125	EA	3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	33.74	
23 21	13 23-2126	EA	3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	40.91	
23 21	13 23-2127	EA	4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	41.59	
23 21	13 23-2128	EA	5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	50.71	
23 21	13 23-2129	EA	6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	54.40	
23 21	13 23-2130	EA	8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	73.26	
23 21	13 23-2131	EA	10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	90.93	
23 21	13 23-2132	EA	12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	108.07	
23 21	13 23-2133	EA	14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	151.68	
23 21	13 23-2134	EA	16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	198.80	
23 21	13 23-2135	EA	18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	233.21	
23 21	13 23-2136	EA	20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	339.04	
23 21	13 23-2137	EA	24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	460.36	
<b>23 21 13 23-2138 Copper Grooved-Joint Pipe Fittings <small>(23 21 13 23)</small></b>					
Note: Couplings are not included with fittings.					
<b>23 21 13 23-2139 Grooved Fittings <small>(23 21 13 23-2138)</small></b>					
<b>23 21 13 23-2140 Grooved 90 Degree Elbows <small>(23 21 13 23-2139)</small></b>					
23 21	13 23-2141	EA	2" Copper 90 Degree Elbow, Grooved.....	125.86	22.98
23 21	13 23-2142	EA	2-1/2" Copper 90 Degree Elbow, Grooved .....	142.46	28.06
23 21	13 23-2143	EA	3" Copper 90 Degree Elbow, Grooved.....	188.98	33.98
23 21	13 23-2144	EA	4" Copper 90 Degree Elbow, Grooved.....	367.41	44.83
23 21	13 23-2145	EA	5" Copper 90 Degree Elbow, Grooved.....	899.14	56.11
23 21	13 23-2146	EA	6" Copper 90 Degree Elbow, Grooved.....	1,402.62	73.45
23 21	13 23-2147	EA	8" Copper 90 Degree Elbow, Grooved.....	2,532.28	87.40
<b>23 21 13 23-2148 Grooved 45 Degree Elbows <small>(23 21 13 23-2139)</small></b>					
23 21	13 23-2149	EA	2" Copper 45 Degree Elbow, Grooved.....	125.86	22.98
23 21	13 23-2150	EA	2-1/2" Copper 45 Degree Elbow, Grooved .....	142.46	28.06
23 21	13 23-2151	EA	3" Copper 45 Degree Elbow, Grooved.....	188.98	33.98
23 21	13 23-2152	EA	4" Copper 45 Degree Elbow, Grooved.....	367.41	44.83
23 21	13 23-2153	EA	5" Copper 45 Degree Elbow, Grooved.....	899.14	56.11
23 21	13 23-2154	EA	6" Copper 45 Degree Elbow, Grooved.....	1,402.62	73.45
23 21	13 23-2155	EA	8" Copper 45 Degree Elbow, Grooved.....	2,532.28	87.40
<b>23 21 13 23-2156 Grooved Tees <small>(23 21 13 23-2139)</small></b>					
23 21	13 23-2157	EA	2" Copper Tee, Grooved.....	198.55	33.84
23 21	13 23-2158	EA	2-1/2" Copper Tee, Grooved.....	221.94	41.59
23 21	13 23-2159	EA	3" Copper Tee, Grooved.....	308.61	51.03
23 21	13 23-2160	EA	4" Copper Tee, Grooved.....	584.89	65.98
23 21	13 23-2161	EA	5" Copper Tee, Grooved.....	2,165.38	86.28
23 21	13 23-2162	EA	6" Copper Tee, Grooved.....	1,781.41	107.99
23 21	13 23-2163	EA	8" Copper Tee, Grooved.....	3,057.58	131.12
<b>23 21 13 23-2164 Grooved Reducing Tees <small>(23 21 13 23-2139)</small></b>					
23 21	13 23-2165	EA	2-1/2" Copper Tee, Reducing, Grooved.....	290.06	41.59
23 21	13 23-2166	EA	3" Copper Tee, Reducing, Grooved.....	453.25	51.03
23 21	13 23-2167	EA	4" Copper Tee, Reducing, Grooved.....	726.97	66.12
23 21	13 23-2168	EA	5" Copper Tee, Reducing, Grooved.....	1,988.41	86.42
23 21	13 23-2169	EA	6" Copper Tee, Reducing, Grooved.....	2,432.79	107.99



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-2170 Grooved X Cup Reducing Tees (23 21 13 23-2139)</b>						
			EA	2" Copper Tee, Reducing, Grooved X Cup.....	234.98	33.84
			EA	2-1/2" Copper Tee, Reducing, Grooved X Cup.....	290.80	41.59
			EA	3" Copper Tee, Reducing, Grooved X Cup.....	486.03	51.03
			EA	4" Copper Tee, Reducing, Grooved X Cup.....	726.97	65.98
<b>23 21 13 23-2175 Grooved Flanged Adapter Nipples (23 21 13 23-2139)</b>						
			EA	2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	394.28	24.96
			EA	2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	419.11	30.31
			EA	3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	447.92	36.23
			EA	4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	509.25	48.78
			EA	5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	671.51	59.07
			EA	6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	761.75	79.79
<b>23 21 13 23-2182 Grooved Concentric Reducers (23 21 13 23-2139)</b>						
			EA	2-1/2" x 2" Copper Concentric Reducer, Grooved.....	165.85	25.66
			EA	3" x 2" Copper Concentric Reducer, Grooved.....	171.49	28.62
			EA	3" x 2-1/2" Copper Concentric Reducer, Grooved.....	182.42	33.98
			EA	4" x 2" Copper Concentric Reducer, Grooved.....	302.28	34.26
			EA	4" x 2-1/2" Copper Concentric Reducer, Grooved.....	307.22	36.65
			EA	4" x 3" Copper Concentric Reducer, Grooved.....	312.86	39.48
			EA	5" x 3" Copper Concentric Reducer, Grooved.....	748.17	45.11
			EA	5" x 4" Copper Concentric Reducer, Grooved.....	759.45	50.75
			EA	6" x 3" Copper Concentric Reducer, Grooved.....	819.38	53.58
			EA	6" x 4" Copper Concentric Reducer, Grooved.....	830.65	59.21
			EA	6" x 5" Copper Concentric Reducer, Grooved.....	841.94	64.85
			EA	8" x 6" Copper Concentric Reducer, Grooved.....	1,410.67	80.36
<b>23 21 13 23-2195 Grooved X Cup Concentric Reducers (23 21 13 23-2139)</b>						
			EA	2" x 1" Copper Concentric Reducer, Grooved X Cup.....	130.68	18.05
			EA	2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	132.09	18.75
			EA	2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	136.40	20.87
			EA	2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup.....	156.14	20.16
			EA	2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	157.53	20.87
			EA	2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	161.67	22.98
			EA	2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup.....	167.32	25.66
			EA	3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	195.35	25.66
			EA	3" x 2" Copper Concentric Reducer, Grooved X Cup.....	200.99	28.62
			EA	4" x 2" Copper Concentric Reducer, Grooved X Cup.....	335.43	34.12
<b>23 21 13 23-2206 Grooved Standard Couplings (23 21 13 23-2139)</b>						
			EA	2" Copper Standard Coupling, Grooved.....	50.55	11.56
			EA	2-1/2" Copper Standard Coupling, Grooved.....	59.60	14.10
			EA	3" Copper Standard Coupling, Grooved.....	68.21	16.77
			EA	4" Copper Standard Coupling, Grooved.....	98.01	22.56
			EA	5" Copper Standard Coupling, Grooved.....	146.48	28.06
			EA	6" Copper Standard Coupling, Grooved.....	192.78	36.65
			EA	8" Copper Standard Coupling, Grooved.....	273.20	43.70
<b>23 21 13 23-2214 Grooved Caps (23 21 13 23-2139)</b>						
			EA	2" Copper Cap, Grooved.....	78.04	11.56
			EA	2-1/2" Copper Cap, Grooved.....	109.68	14.10
			EA	3" Copper Cap, Grooved.....	134.78	16.77
			EA	4" Copper Cap, Grooved.....	196.82	22.41
			EA	5" Copper Cap, Grooved.....	325.48	28.06
			EA	6" Copper Cap, Grooved.....	383.45	36.65
<b>23 21 13 23-2221 Grooved Valves (23 21 13 23-2138)</b>						
<b>23 21 13 23-2222 Grooved Butterfly Valves, Standard Trim, Without Operator (23 21 13 23-2221)</b>						
Note: Copper body.						
			EA	2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	485.81	15.08
				For Chain Wheel, Add.....	43.45	
				For Valve Bracket Insulation, Add.....	38.20	
			EA	3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	555.09	22.41
				For Chain Wheel, Add.....	43.45	
				For Valve Bracket Insulation, Add.....	38.20	
			EA	4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	733.70	29.46
				For Chain Wheel, Add.....	43.45	
				For Valve Bracket Insulation, Add.....	38.20	
			EA	6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	983.35	48.36
				For Chain Wheel, Add.....	43.45	
				For Valve Bracket Insulation, Add.....	38.20	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2227	EA	8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body .....	1,091.19	67.96
		<i>For Chain Wheel, Add</i>	43.45	
		<i>For Valve Bracket Insulation, Add</i>	38.20	
<b>23 21 13 23-2228</b>		<b>Grooved Butterfly Valves, Standard Trim, With Operator (23 21 13 23-2221)</b>		
		Note: Copper body.		
23 21 13 23-2229	EA	2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	591.87	15.08
		<i>For Chain Wheel, Add</i>	43.45	
		<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21 13 23-2230	EA	3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	661.22	22.41
		<i>For Chain Wheel, Add</i>	43.45	
		<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21 13 23-2231	EA	4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	839.83	29.46
		<i>For Chain Wheel, Add</i>	43.45	
		<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21 13 23-2232	EA	6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	1,089.55	48.36
		<i>For Chain Wheel, Add</i>	43.45	
		<i>For Valve Bracket Insulation, Add</i>	38.20	
23 21 13 23-2233	EA	8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	1,197.32	67.96
		<i>For Chain Wheel, Add</i>	43.45	
		<i>For Valve Bracket Insulation, Add</i>	38.20	
<b>23 21 13 23-2234</b>		<b>Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23)</b>		
		Note: Socket or back weld.		
<b>23 21 13 23-2235</b>		<b>Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2234)</b>		
		Note: ASTM D1785 with D2466 fittings.		
<b>23 21 13 23-2236</b>		<b>Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2235)</b>		
23 21 13 23-2237	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	6.93	4.03
		<i>For Work In Restricted Working Space, Add</i>	1.82	
23 21 13 23-2238	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	8.69	5.04
		<i>For Work In Restricted Working Space, Add</i>	2.27	
23 21 13 23-2239	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	9.68	5.37
		<i>For Work In Restricted Working Space, Add</i>	2.42	
23 21 13 23-2240	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	10.81	5.78
		<i>For Work In Restricted Working Space, Add</i>	2.60	
23 21 13 23-2241	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	11.25	5.88
		<i>For Work In Restricted Working Space, Add</i>	2.64	
23 21 13 23-2242	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	13.88	7.04
		<i>For Work In Restricted Working Space, Add</i>	3.17	
23 21 13 23-2243	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	17.79	8.36
		<i>For Work In Restricted Working Space, Add</i>	3.76	
23 21 13 23-2244	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	21.98	10.11
		<i>For Work In Restricted Working Space, Add</i>	4.55	
23 21 13 23-2245	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	32.56	15.15
		<i>For Work In Restricted Working Space, Add</i>	6.82	
23 21 13 23-2246	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	47.46	20.21
		<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-2247	LF	8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	62.18	24.09
		<i>For Work In Restricted Working Space, Add</i>	10.85	
23 21 13 23-2248	LF	10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	120.02	26.91
		<i>For Work In Restricted Working Space, Add</i>	12.10	
<b>23 21 13 23-2249</b>		<b>Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2235)</b>		
23 21 13 23-2250	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	23.57	15.22
		<i>For Work In Restricted Working Space, Add</i>	6.82	
23 21 13 23-2251	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	31.49	20.16
		<i>For Work In Restricted Working Space, Add</i>	9.10	
23 21 13 23-2252	EA	1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	39.68	25.10
		<i>For Work In Restricted Working Space, Add</i>	11.28	
23 21 13 23-2253	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	57.04	35.53
		<i>For Work In Restricted Working Space, Add</i>	15.96	
23 21 13 23-2254	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	64.07	40.04
		<i>For Work In Restricted Working Space, Add</i>	18.00	
23 21 13 23-2255	EA	2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	82.61	50.89
		<i>For Work In Restricted Working Space, Add</i>	22.86	
23 21 13 23-2256	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	132.27	75.29
		<i>For Work In Restricted Working Space, Add</i>	33.84	
23 21 13 23-2257	EA	3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	171.79	98.97
		<i>For Work In Restricted Working Space, Add</i>	44.52	
23 21 13 23-2258	EA	4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	218.02	117.58
		<i>For Work In Restricted Working Space, Add</i>	52.87	
23 21 13 23-2259	EA	6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	301.47	134.35
		<i>For Work In Restricted Working Space, Add</i>	60.42	
23 21 13 23-2260	EA	8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	492.63	156.77
		<i>For Work In Restricted Working Space, Add</i>	70.49	
23 21 13 23-2261	EA	10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	736.47	233.75
		<i>For Work In Restricted Working Space, Add</i>	105.11	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2262		<b>Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows</b> (23 21 13 23-2235)		
	23 21	13 23-2263	EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....23.99		15.22
			<i>For Work In Restricted Working Space, Add</i>	6.82	
	23 21	13 23-2264	EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....32.32		20.16
			<i>For Work In Restricted Working Space, Add</i>	9.10	
	23 21	13 23-2265	EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....40.85		25.10
			<i>For Work In Restricted Working Space, Add</i>	11.28	
	23 21	13 23-2266	EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....57.79		35.53
			<i>For Work In Restricted Working Space, Add</i>	15.96	
	23 21	13 23-2267	EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....65.73		40.04
			<i>For Work In Restricted Working Space, Add</i>	18.00	
	23 21	13 23-2268	EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....83.69		50.89
			<i>For Work In Restricted Working Space, Add</i>	22.86	
	23 21	13 23-2269	EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....132.27		75.29
			<i>For Work In Restricted Working Space, Add</i>	33.84	
	23 21	13 23-2270	EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....178.79		98.97
			<i>For Work In Restricted Working Space, Add</i>	44.52	
	23 21	13 23-2271	EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....230.76		117.58
			<i>For Work In Restricted Working Space, Add</i>	52.87	
	23 21	13 23-2272	EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....302.63		134.35
			<i>For Work In Restricted Working Space, Add</i>	60.42	
	23 21	13 23-2273	EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....478.56		156.77
			<i>For Work In Restricted Working Space, Add</i>	70.49	
	23 21	13 23-2274	EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....736.47		233.75
			<i>For Work In Restricted Working Space, Add</i>	105.11	
23 21	13 23-2275		<b>Schedule 40 Polyvinyl Chloride (PVC) Tees</b> (23 21 13 23-2235)		
	23 21	13 23-2276	EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees .....38.60		25.10
			<i>For Work In Restricted Working Space, Add</i>	11.28	
	23 21	13 23-2277	EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees .....46.56		30.31
			<i>For Work In Restricted Working Space, Add</i>	13.64	
	23 21	13 23-2278	EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees .....62.07		40.04
			<i>For Work In Restricted Working Space, Add</i>	18.00	
	23 21	13 23-2279	EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees .....79.53		50.89
			<i>For Work In Restricted Working Space, Add</i>	22.86	
	23 21	13 23-2280	EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees .....95.03		60.63
			<i>For Work In Restricted Working Space, Add</i>	27.29	
	23 21	13 23-2281	EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees .....118.70		75.29
			<i>For Work In Restricted Working Space, Add</i>	33.84	
	23 21	13 23-2282	EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees .....168.05		98.97
			<i>For Work In Restricted Working Space, Add</i>	44.52	
	23 21	13 23-2283	EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees .....201.95		117.58
			<i>For Work In Restricted Working Space, Add</i>	52.87	
	23 21	13 23-2284	EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees .....281.59		156.77
			<i>For Work In Restricted Working Space, Add</i>	70.49	
	23 21	13 23-2285	EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees .....460.36		202.17
			<i>For Work In Restricted Working Space, Add</i>	90.95	
	23 21	13 23-2286	EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees .....740.58		250.80
			<i>For Work In Restricted Working Space, Add</i>	112.78	
	23 21	13 23-2287	EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees .....1,988.69		374.73
			<i>For Work In Restricted Working Space, Add</i>	168.56	
23 21	13 23-2288		<b>Schedule 40 Polyvinyl Chloride (PVC) Crosses</b> (23 21 13 23-2235)		
	23 21	13 23-2289	EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....48.56		31.29
			<i>For Work In Restricted Working Space, Add</i>	14.10	
	23 21	13 23-2290	EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....58.55		37.92
			<i>For Work In Restricted Working Space, Add</i>	17.06	
	23 21	13 23-2291	EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....78.26		50.05
			<i>For Work In Restricted Working Space, Add</i>	22.50	
	23 21	13 23-2292	EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....100.48		63.58
			<i>For Work In Restricted Working Space, Add</i>	28.58	
	23 21	13 23-2293	EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....120.08		75.85
			<i>For Work In Restricted Working Space, Add</i>	34.11	
	23 21	13 23-2294	EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....150.25		94.03
			<i>For Work In Restricted Working Space, Add</i>	42.29	
	23 21	13 23-2295	EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....216.30		123.78
			<i>For Work In Restricted Working Space, Add</i>	55.65	
	23 21	13 23-2296	EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....260.60		146.90
			<i>For Work In Restricted Working Space, Add</i>	66.08	
	23 21	13 23-2297	EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....366.80		195.97
			<i>For Work In Restricted Working Space, Add</i>	88.11	
	23 21	13 23-2298	EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....625.21		252.64
			<i>For Work In Restricted Working Space, Add</i>	113.65	
	23 21	13 23-2299	EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....1,041.29		313.26
			<i>For Work In Restricted Working Space, Add</i>	140.90	
	23 21	13 23-2300	EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses .....2,939.37		468.62
			<i>For Work In Restricted Working Space, Add</i>	210.80	
23 21	13 23-2301		<b>Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts</b> (23 21 13 23-2235)		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2302 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	24.34 7.08	15.51
23 21 13 23-2303 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	31.77 9.06	19.88
23 21 13 23-2304 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	42.42 12.10	26.65
23 21 13 23-2305 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	52.46 15.09	33.13
23 21 13 23-2306 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	64.20 18.16	39.90
23 21 13 23-2307 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	89.83 25.20	55.41
23 21 13 23-2308 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	124.82 34.82	76.55
23 21 13 23-2309 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	164.01 43.28	95.16
23 21 13 23-2310 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	216.87 50.35	110.81
23 21 13 23-2311 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	475.88 58.19	128.01
23 21 13 23-2312 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	573.12 78.04	171.71
<b>23 21 13 23-2313 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2235)</b>		
23 21 13 23-2314 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	24.49 6.82	15.22
23 21 13 23-2315 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	32.07 9.10	20.16
23 21 13 23-2316 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	39.76 11.28	25.10
23 21 13 23-2317 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	56.54 15.96	35.53
23 21 13 23-2318 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	63.82 18.00	40.04
23 21 13 23-2319 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	81.44 22.86	50.89
23 21 13 23-2320 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	120.37 33.84	75.29
23 21 13 23-2321 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	157.14 44.52	98.97
23 21 13 23-2322 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	195.96 52.87	117.58
<b>23 21 13 23-2323 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters (23 21 13 23-2235)</b>		
23 21 13 23-2324 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	25.07 6.82	15.22
23 21 13 23-2325 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	32.65 9.10	20.16
23 21 13 23-2326 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	40.93 11.28	25.10
23 21 13 23-2327 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	57.21 15.96	35.53
23 21 13 23-2328 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	65.32 18.00	40.04
23 21 13 23-2329 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	82.78 22.86	50.89
23 21 13 23-2330 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	121.86 33.84	75.29
23 21 13 23-2331 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	161.72 44.52	98.97
23 21 13 23-2332 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	193.30 52.87	117.58
<b>23 21 13 23-2333 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters (23 21 13 23-2235)</b>		
23 21 13 23-2334 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	23.57 6.82	15.22
23 21 13 23-2335 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	31.40 9.10	20.16
23 21 13 23-2336 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	38.85 11.28	25.10
23 21 13 23-2337 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	55.21 15.96	35.53
23 21 13 23-2338 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	62.32 18.00	40.04
23 21 13 23-2339 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	79.36 22.86	50.89
23 21 13 23-2340 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	126.52 33.84	75.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2341 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	166.88 44.52	98.97
23 21 13 23-2342 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	206.78 52.87	117.58
<b>23 21 13 23-2343 Schedule 40 Polyvinyl Chloride (PVC) P-Traps (23 21 13 23-2235)</b>		
23 21 13 23-2344 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps..... <i>For Work In Restricted Working Space, Add</i>	37.09 9.30	20.72
<b>23 21 13 23-2345 Schedule 40 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2235)</b>		
23 21 13 23-2346 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	23.24 6.82	15.22
23 21 13 23-2347 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	30.99 9.10	20.16
23 21 13 23-2348 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	38.85 11.28	25.10
23 21 13 23-2349 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	54.88 15.96	35.53
23 21 13 23-2350 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	61.82 18.00	40.04
23 21 13 23-2351 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	79.03 22.86	50.89
23 21 13 23-2352 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	119.12 33.84	75.29
23 21 13 23-2353 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	158.31 44.52	98.97
23 21 13 23-2354 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	190.63 52.87	117.58
23 21 13 23-2355 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	247.02 60.42	134.35
23 21 13 23-2356 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	320.22 70.49	156.77
23 21 13 23-2357 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	643.13 75.56	168.05
<b>23 21 13 23-2358 Schedule 40 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2235)</b>		
23 21 13 23-2359 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	46.03 11.28	25.10
23 21 13 23-2360 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	59.55 13.64	30.31
23 21 13 23-2361 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	75.72 18.00	40.04
23 21 13 23-2362 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	114.50 22.86	50.89
23 21 13 23-2363 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	130.91 27.29	60.63
23 21 13 23-2364 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	166.65 33.84	75.29
23 21 13 23-2365 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	246.14 44.52	98.97
23 21 13 23-2366 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	279.79 52.87	117.58
23 21 13 23-2367 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	440.34 70.49	156.77
23 21 13 23-2368 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	578.35 90.92	202.17
23 21 13 23-2369 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	829.94 112.72	250.66
23 21 13 23-2370 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	1,215.23 139.97	311.15
<b>23 21 13 23-2371 Schedule 40 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2235)</b>		
23 21 13 23-2372 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	11.03 3.11	6.85
23 21 13 23-2373 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	14.48 4.10	9.02
23 21 13 23-2374 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	18.24 5.07	11.14
23 21 13 23-2375 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	26.05 7.27	15.97
23 21 13 23-2376 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	29.00 8.10	17.77
23 21 13 23-2377 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	36.70 10.29	22.70
23 21 13 23-2378 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	58.66 15.23	33.56
23 21 13 23-2379 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	75.35 20.03	44.12

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2380 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	98.95 23.79	52.30
23 21 13 23-2381 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	137.67 27.19	59.77
23 21 13 23-2382 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	263.08 31.72	69.79
23 21 13 23-2383 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	739.83 47.30	104.05
<b>23 21 13 23-2384 Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2385)</b>		
23 21 13 23-2385 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges <i>For Work In Restricted Working Space, Add</i>	54.33 11.28	25.10
23 21 13 23-2386 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	71.12 13.64	30.31
23 21 13 23-2387 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	88.54 18.00	40.04
23 21 13 23-2388 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	105.59 22.86	50.89
23 21 13 23-2389 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	121.00 27.29	60.63
23 21 13 23-2390 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	152.75 33.84	75.29
23 21 13 23-2391 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	210.09 44.52	98.97
23 21 13 23-2392 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	244.33 52.87	117.58
23 21 13 23-2393 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	321.22 70.49	156.77
23 21 13 23-2394 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	438.66 90.92	202.17
23 21 13 23-2395 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	681.68 112.72	250.66
23 21 13 23-2396 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	1,155.38 139.75	310.72
<b>23 21 13 23-2397 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings (23 21 13 23-2234)</b> Note: ASTM D1785 with D2467 fittings.		
<b>23 21 13 23-2398 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2397)</b>		
23 21 13 23-2399 LF 1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.18 1.82	4.09
23 21 13 23-2400 LF 3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.00 2.27	5.08
23 21 13 23-2401 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.20 2.72	6.06
23 21 13 23-2402 LF 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.48 3.18	7.05
23 21 13 23-2403 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	15.54 3.63	8.03
23 21 13 23-2404 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	20.16 4.55	10.15
23 21 13 23-2405 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	24.12 5.00	11.14
23 21 13 23-2406 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	28.07 5.46	12.13
23 21 13 23-2407 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	37.25 6.82	15.22
23 21 13 23-2408 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	57.91 9.10	20.16
23 21 13 23-2409 LF 8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	78.19 10.85	24.10
23 21 13 23-2410 LF 10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	168.43 11.68	25.94
<b>23 21 13 23-2411 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows (23 21 13 23-2397)</b>		
23 21 13 23-2412 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.74 6.82 3.41	15.22
23 21 13 23-2413 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	34.23 9.10 4.55	20.16
23 21 13 23-2414 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	43.93 11.28 5.64	25.10
23 21 13 23-2415 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	61.62 15.96 7.98	35.53
23 21 13 23-2416 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	68.98 18.00 9.00	40.04



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2417 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	87.11 22.86 11.43	50.89
23 21 13 23-2418 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	138.35 33.84 16.92	75.29
23 21 13 23-2419 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	177.12 44.52 22.26	98.97
23 21 13 23-2420 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	219.85 52.87 26.43	117.58
23 21 13 23-2421 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	358.99 60.42 30.21	134.35
23 21 13 23-2422 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	577.55 70.49 35.25	156.77
23 21 13 23-2423 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	736.47 105.11 52.55	233.75
<b>23 21 13 23-2424 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2397)</b>		
23 21 13 23-2425 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	28.48 6.82 3.41	15.22
23 21 13 23-2426 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.06 9.10 4.55	20.16
23 21 13 23-2427 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	50.75 11.28 5.64	25.10
23 21 13 23-2428 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	70.03 15.96 7.98	35.53
23 21 13 23-2429 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	79.80 18.00 9.00	40.04
23 21 13 23-2430 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	101.93 22.86 11.43	50.89
23 21 13 23-2431 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	166.91 33.84 16.92	75.29
23 21 13 23-2432 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	214.26 44.52 22.26	98.97
23 21 13 23-2433 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	294.87 52.87 26.43	117.58
23 21 13 23-2434 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	350.76 60.42 30.21	134.35
23 21 13 23-2435 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	558.84 70.49 35.25	156.77
23 21 13 23-2436 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	715.43 105.11 52.55	233.75
<b>23 21 13 23-2437 Schedule 80 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2397)</b>		
23 21 13 23-2438 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	44.27 10.71 5.35	23.82
23 21 13 23-2439 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	54.47 13.64 6.82	30.31
23 21 13 23-2440 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.23 18.00 9.00	40.04
23 21 13 23-2441 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	107.26 22.86 11.43	50.89
23 21 13 23-2442 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	122.01 27.29 13.64	60.63
23 21 13 23-2443 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	151.67 33.84 16.92	75.29
23 21 13 23-2444 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	190.69 44.52 22.26	98.97

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2445 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	229.01 52.87 26.43	117.58
23 21 13 23-2446 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	296.16 70.49 35.25	156.77
23 21 13 23-2447 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	512.24 90.95 45.48	202.17
23 21 13 23-2448 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	860.83 112.78 56.39	250.80
23 21 13 23-2449 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,988.79 168.56 84.28	374.73
<b>23 21 13 23-2450 Schedule 80 Polyvinyl Chloride (PVC) Crosses (23 21 13 23-2397)</b>		
23 21 13 23-2451 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	58.06 13.39 6.69	29.74
23 21 13 23-2452 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	70.94 17.06 8.53	37.92
23 21 13 23-2453 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	92.61 22.50 11.25	50.05
23 21 13 23-2454 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	143.94 28.58 14.29	63.58
23 21 13 23-2455 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	162.37 34.11 17.05	75.85
23 21 13 23-2456 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	201.93 42.29 21.15	94.03
23 21 13 23-2457 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	251.81 55.65 27.83	123.78
23 21 13 23-2458 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	303.03 66.08 33.04	146.90
23 21 13 23-2459 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	389.64 88.11 44.06	195.97
23 21 13 23-2460 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	706.54 113.65 56.82	252.64
23 21 13 23-2461 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,229.79 140.90 70.45	313.26
23 21 13 23-2462 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	2,939.52 210.80 105.40	468.62
<b>23 21 13 23-2463 Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2397)</b>		
23 21 13 23-2464 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	32.07 9.10	20.16
23 21 13 23-2465 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	42.68 11.28	25.10
23 21 13 23-2466 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	61.20 15.96	35.53
23 21 13 23-2467 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	70.89 18.00	40.04
23 21 13 23-2468 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	91.77 22.86	50.89
23 21 13 23-2469 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	139.76 33.84	75.29
23 21 13 23-2470 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	191.27 44.52	98.97
23 21 13 23-2471 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	235.67 52.87	117.58
23 21 13 23-2472 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	267.33 60.42	134.35
23 21 13 23-2473 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	381.32 70.49	156.77
23 21 13 23-2474 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	585.97 81.89	182.01
<b>23 21 13 23-2475 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2397)</b>		
23 21 13 23-2476 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	23.32 6.82	15.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2477 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	33.57 9.10	20.16
23 21 13 23-2478 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	42.68 11.28	25.10
23 21 13 23-2479 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	63.53 15.96	35.53
23 21 13 23-2480 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	72.98 18.00	40.04
23 21 13 23-2481 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	92.10 22.86	50.89
23 21 13 23-2482 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	146.42 33.84	75.29
23 21 13 23-2483 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	210.67 44.52	98.97
23 21 13 23-2484 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i>	271.97 52.87	117.58
<b>23 21 13 23-2485 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters</b> <small>(23 21 13 23-2397)</small>		
23 21 13 23-2486 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	29.82 6.82	15.22
23 21 13 23-2487 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	38.14 9.10	20.16
23 21 13 23-2488 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	51.25 11.28	25.10
23 21 13 23-2489 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	69.19 15.96	35.53
23 21 13 23-2490 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	82.97 18.00	40.04
23 21 13 23-2491 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	106.17 22.86	50.89
23 21 13 23-2492 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	146.92 33.84	75.29
23 21 13 23-2493 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	186.28 44.52	98.97
23 21 13 23-2494 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	243.58 52.87	117.58
<b>23 21 13 23-2495 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters</b> <small>(23 21 13 23-2397)</small>		
23 21 13 23-2496 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	27.90 6.82	15.22
23 21 13 23-2497 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	37.98 9.10	20.16
23 21 13 23-2498 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	48.92 11.28	25.10
23 21 13 23-2499 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	71.61 15.96	35.53
23 21 13 23-2500 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	82.55 18.00	40.04
23 21 13 23-2501 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	115.49 22.86	50.89
23 21 13 23-2502 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i>	174.89 33.84	75.29
23 21 13 23-2503 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	218.33 44.52	98.97
23 21 13 23-2504 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	296.44 52.87	117.58
<b>23 21 13 23-2505 Schedule 80 Polyvinyl Chloride (PVC) Couplings</b> <small>(23 21 13 23-2397)</small>		
23 21 13 23-2506 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	28.23 6.82 3.41	15.22
23 21 13 23-2507 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	37.73 9.10 4.55	20.16
23 21 13 23-2508 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	45.26 11.28 5.64	25.10
23 21 13 23-2509 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	64.95 15.96 7.98	35.53
23 21 13 23-2510 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	72.64 18.00 9.00	40.04
23 21 13 23-2511 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	89.69 22.86 11.43	50.89

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2512 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings .....	146.17	75.29
For Work In Restricted Working Space, Add	33.84	
For Threaded Fittings, Add	16.92	
23 21 13 23-2513 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....	186.78	98.97
For Work In Restricted Working Space, Add	44.52	
For Threaded Fittings, Add	22.26	
23 21 13 23-2514 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....	224.35	117.58
For Work In Restricted Working Space, Add	52.87	
For Threaded Fittings, Add	26.43	
23 21 13 23-2515 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....	304.88	134.35
For Work In Restricted Working Space, Add	60.42	
For Threaded Fittings, Add	30.21	
23 21 13 23-2516 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....	375.83	156.77
For Work In Restricted Working Space, Add	70.49	
For Threaded Fittings, Add	35.25	
23 21 13 23-2517 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Couplings.....	668.10	168.05
For Work In Restricted Working Space, Add	75.56	
For Threaded Fittings, Add	37.78	
<b>23 21 13 23-2518 Schedule 80 Polyvinyl Chloride (PVC) Unions</b> <small>(23 21 13 23-2397)</small>		
23 21 13 23-2519 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	49.92	25.10
For Work In Restricted Working Space, Add	11.28	
23 21 13 23-2520 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	59.72	30.31
For Work In Restricted Working Space, Add	13.64	
23 21 13 23-2521 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	76.22	40.04
For Work In Restricted Working Space, Add	18.00	
23 21 13 23-2522 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	116.83	50.89
For Work In Restricted Working Space, Add	22.86	
23 21 13 23-2523 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	143.23	60.63
For Work In Restricted Working Space, Add	27.29	
23 21 13 23-2524 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	183.64	75.29
For Work In Restricted Working Space, Add	33.84	
23 21 13 23-2525 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	280.31	98.97
For Work In Restricted Working Space, Add	44.52	
23 21 13 23-2526 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	346.26	117.58
For Work In Restricted Working Space, Add	52.87	
23 21 13 23-2527 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	440.84	156.77
For Work In Restricted Working Space, Add	70.49	
23 21 13 23-2528 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	578.35	202.17
For Work In Restricted Working Space, Add	90.92	
23 21 13 23-2529 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	829.94	250.66
For Work In Restricted Working Space, Add	112.72	
23 21 13 23-2530 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Unions .....	1,214.48	310.72
For Work In Restricted Working Space, Add	139.75	
<b>23 21 13 23-2531 Schedule 80 Polyvinyl Chloride (PVC) Threaded Unions</b> <small>(23 21 13 23-2397)</small>		
23 21 13 23-2532 EA 1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	54.41	31.32
23 21 13 23-2533 EA 3/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	64.65	36.23
23 21 13 23-2534 EA 1", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	78.03	42.72
23 21 13 23-2535 EA 1-1/4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	102.72	50.89
23 21 13 23-2536 EA 1-1/2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	123.64	60.63
23 21 13 23-2537 EA 2", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	162.70	75.29
23 21 13 23-2538 EA 3", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	345.26	145.92
23 21 13 23-2539 EA 4", Scheduler 80, Polyvinyl Chloride (PVC) Threaded Union.....	375.29	161.85
<b>23 21 13 23-2540 Schedule 80 Polyvinyl Chloride (PVC) Caps</b> <small>(23 21 13 23-2397)</small>		
23 21 13 23-2541 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps .....	17.98	6.77
For Work In Restricted Working Space, Add	3.07	
For Threaded Fittings, Add	1.54	
23 21 13 23-2542 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps .....	21.81	9.02
For Work In Restricted Working Space, Add	4.10	
For Threaded Fittings, Add	2.05	
23 21 13 23-2543 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Caps .....	31.39	11.14
For Work In Restricted Working Space, Add	5.07	
For Threaded Fittings, Add	2.54	
23 21 13 23-2544 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps .....	41.42	15.79
For Work In Restricted Working Space, Add	7.18	
For Threaded Fittings, Add	3.59	
23 21 13 23-2545 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps .....	44.48	17.77
For Work In Restricted Working Space, Add	8.10	
For Threaded Fittings, Add	4.05	
23 21 13 23-2546 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Caps .....	60.51	22.70
For Work In Restricted Working Space, Add	10.29	
For Threaded Fittings, Add	5.14	
23 21 13 23-2547 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps .....	104.61	33.56
For Work In Restricted Working Space, Add	15.23	
For Threaded Fittings, Add	7.61	
23 21 13 23-2548 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Caps .....	132.63	44.12
For Work In Restricted Working Space, Add	20.03	
For Threaded Fittings, Add	10.02	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2549 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	185.20 23.79 11.90	52.30
23 21 13 23-2550 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	353.70 27.19 13.59	59.77
23 21 13 23-2551 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	467.13 31.72 15.86	69.79
23 21 13 23-2552 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	823.08 47.30 23.65	104.05
<b>23 21 13 23-2553 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges</b> <small>(23 21 13 23-2397)</small>		
23 21 13 23-2554 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	61.49 11.28 5.64	25.10
23 21 13 23-2555 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.12 13.64 6.82	30.31
23 21 13 23-2556 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	88.55 18.00 9.00	40.04
23 21 13 23-2557 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	105.59 22.86 11.43	50.89
23 21 13 23-2558 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	121.00 27.29 13.64	60.63
23 21 13 23-2559 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	152.75 33.84 16.92	75.29
23 21 13 23-2560 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	210.09 44.52 22.26	98.97
23 21 13 23-2561 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	244.33 52.87 26.43	117.58
23 21 13 23-2562 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	321.22 70.49 35.25	156.77
23 21 13 23-2563 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	438.67 90.92 45.46	202.17
23 21 13 23-2564 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	681.68 112.72 56.36	250.66
23 21 13 23-2565 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,155.38 139.75 69.87	310.72
<b>23 21 13 23-2566 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe</b> <small>(23 21 13 23-2234)</small> Note: In place pipe.		
23 21 13 23-2567 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	7.66 2.30	
23 21 13 23-2568 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	8.27 2.48	
23 21 13 23-2569 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	9.30 2.79	
23 21 13 23-2570 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	9.76 2.93	
23 21 13 23-2571 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	10.33 3.10	
23 21 13 23-2572 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	11.37 3.41	
23 21 13 23-2573 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	12.25 3.68	
23 21 13 23-2574 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	14.48 4.34	
23 21 13 23-2575 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	19.52 5.86	
23 21 13 23-2576 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	27.90 8.37	
23 21 13 23-2577 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	37.21 11.16	
23 21 13 23-2578 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	45.49 13.65	
<b>23 21 13 23-2579 Polyethylene Pipe And Fittings</b> <small>(23 21 13 23)</small>		
<b>23 21 13 23-2580 Small Diameter Tubing</b> <small>(23 21 13 23-2579)</small>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2581			<b>Tubing</b> (23 21 13 23-2580)		
23 21 13 23-2582	LF		1/4" Polyethylene Tubing.....	4.53	
			<i>For Work In Restricted Working Space, Add</i>	1.28	
23 21 13 23-2583	LF		5/16" Polyethylene Tubing.....	4.86	
			<i>For Work In Restricted Working Space, Add</i>	1.30	
23 21 13 23-2584	LF		3/8" Polyethylene Tubing.....	5.10	
			<i>For Work In Restricted Working Space, Add</i>	1.33	
23 21 13 23-2585	LF		1/2" Polyethylene Tubing.....	5.29	
			<i>For Work In Restricted Working Space, Add</i>	1.44	
23 21 13 23-2586			<b>Chrome Plated Pipe</b> (23 21 13 23)		
23 21 13 23-2587			<b>Chrome Plated Nipples</b> (23 21 13 23-2586)		
23 21 13 23-2588			<b>Close</b> (23 21 13 23-2587)		
23 21 13 23-2589	EA		1/4" Diameter Chrome Plated Nipple, Close.....	25.29	12.25
23 21 13 23-2590	EA		3/8" Diameter Chrome Plated Nipple, Close.....	24.84	13.32
23 21 13 23-2591	EA		1/2" Diameter Chrome Plated Nipple, Close.....	30.38	15.31
23 21 13 23-2592	EA		3/4" Diameter Chrome Plated Nipple, Close.....	39.57	19.45
23 21 13 23-2593	EA		1" Diameter Chrome Plated Nipple, Close.....	52.80	25.57
23 21 13 23-2594	EA		1-1/4" Diameter Chrome Plated Nipple, Close.....	74.61	35.67
23 21 13 23-2595	EA		1-1/2" Diameter Chrome Plated Nipple, Close.....	90.31	41.81
23 21 13 23-2596	EA		2" Diameter Chrome Plated Nipple, Close.....	115.60	52.06
23 21 13 23-2597			<b>1-1/2" Nipples</b> (23 21 13 23-2587)		
23 21 13 23-2598	EA		1/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	26.87	12.71
23 21 13 23-2599	EA		3/8" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	26.13	13.78
23 21 13 23-2600	EA		1/2" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	31.19	15.77
23 21 13 23-2601	EA		3/4" Diameter, 1-1/2" Length, Chrome Plated Nipple.....	40.90	19.90
23 21 13 23-2602			<b>2" Nipples</b> (23 21 13 23-2587)		
23 21 13 23-2603	EA		1/4" Diameter, 2" Length, Chrome Plated Nipple.....	27.96	13.32
23 21 13 23-2604	EA		3/8" Diameter, 2" Length, Chrome Plated Nipple.....	27.05	14.24
23 21 13 23-2605	EA		1/2" Diameter, 2" Length, Chrome Plated Nipple.....	33.30	16.38
23 21 13 23-2606	EA		3/4" Diameter, 2" Length, Chrome Plated Nipple.....	42.73	20.37
23 21 13 23-2607	EA		1" Diameter, 2" Length, Chrome Plated Nipple.....	55.65	26.49
23 21 13 23-2608	EA		1-1/4" Diameter, 2" Length, Chrome Plated Nipple.....	79.00	36.75
23 21 13 23-2609	EA		1-1/2" Diameter, 2" Length, Chrome Plated Nipple.....	95.33	42.87
23 21 13 23-2610			<b>2-1/2" Nipples</b> (23 21 13 23-2587)		
23 21 13 23-2611	EA		1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	29.45	13.78
23 21 13 23-2612	EA		3/8" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	28.03	14.86
23 21 13 23-2613	EA		1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	34.65	16.85
23 21 13 23-2614	EA		3/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	43.76	20.98
23 21 13 23-2615	EA		1" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	57.13	27.10
23 21 13 23-2616	EA		1-1/4" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	83.05	37.21
23 21 13 23-2617	EA		1-1/2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	100.65	43.33
23 21 13 23-2618	EA		2" Diameter, 2-1/2" Length, Chrome Plated Nipple.....	127.37	53.60
23 21 13 23-2619			<b>3" Nipples</b> (23 21 13 23-2587)		
23 21 13 23-2620	EA		1/4" Diameter, 3" Length, Chrome Plated Nipple.....	30.66	14.24
23 21 13 23-2621	EA		3/8" Diameter, 3" Length, Chrome Plated Nipple.....	29.55	15.31
23 21 13 23-2622	EA		1/2" Diameter, 3" Length, Chrome Plated Nipple.....	34.09	16.38
23 21 13 23-2623	EA		3/4" Diameter, 3" Length, Chrome Plated Nipple.....	46.76	21.44
23 21 13 23-2624	EA		1" Diameter, 3" Length, Chrome Plated Nipple.....	63.04	27.56
23 21 13 23-2625	EA		1-1/4" Diameter, 3" Length, Chrome Plated Nipple.....	87.44	37.83
23 21 13 23-2626	EA		1-1/2" Diameter, 3" Length, Chrome Plated Nipple.....	112.91	43.95
23 21 13 23-2627	EA		2" Diameter, 3" Length, Chrome Plated Nipple.....	137.01	54.21
23 21 13 23-2628			<b>3-1/2" Nipples</b> (23 21 13 23-2587)		
23 21 13 23-2629	EA		1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	32.00	14.86
23 21 13 23-2630	EA		3/8" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	31.97	15.77
23 21 13 23-2631	EA		1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	37.50	17.91
23 21 13 23-2632	EA		3/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	51.11	21.89
23 21 13 23-2633	EA		1" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	65.45	28.03
23 21 13 23-2634	EA		1-1/4" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	95.85	38.28
23 21 13 23-2635	EA		1-1/2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	116.71	44.41
23 21 13 23-2636	EA		2" Diameter, 3-1/2" Length, Chrome Plated Nipple.....	144.73	54.66
23 21 13 23-2637			<b>4" Nipples</b> (23 21 13 23-2587)		
23 21 13 23-2638	EA		1/4" Diameter, 4" Length, Chrome Plated Nipple.....	33.33	15.31
23 21 13 23-2639	EA		3/8" Diameter, 4" Length, Chrome Plated Nipple.....	32.83	16.38
23 21 13 23-2640	EA		1/2" Diameter, 4" Length, Chrome Plated Nipple.....	37.57	17.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2641 EA 3/4" Diameter, 4" Length, Chrome Plated Nipple.....	52.94	22.51
23 21 13 23-2642 EA 1" Diameter, 4" Length, Chrome Plated Nipple.....	67.75	28.64
23 21 13 23-2643 EA 1-1/4" Diameter, 4" Length, Chrome Plated Nipple.....	102.32	38.74
23 21 13 23-2644 EA 1-1/2" Diameter, 4" Length, Chrome Plated Nipple.....	124.34	44.87
23 21 13 23-2645 EA 2" Diameter, 4" Length, Chrome Plated Nipple.....	154.11	55.13
<b>23 21 13 23-2646 4-1/2" Nipples (23 21 13 23-2587)</b>		
23 21 13 23-2647 EA 1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	34.54	15.77
23 21 13 23-2648 EA 3/8" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	35.26	16.85
23 21 13 23-2649 EA 1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	41.14	18.84
23 21 13 23-2650 EA 3/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	55.03	22.97
23 21 13 23-2651 EA 1" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	75.20	29.09
23 21 13 23-2652 EA 1-1/4" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	108.52	39.35
23 21 13 23-2653 EA 1-1/2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	127.84	45.48
23 21 13 23-2654 EA 2" Diameter, 4-1/2" Length, Chrome Plated Nipple.....	162.75	55.74
<b>23 21 13 23-2655 5" Nipples (23 21 13 23-2587)</b>		
23 21 13 23-2656 EA 1/4" Diameter, 5" Length, Chrome Plated Nipple.....	38.18	16.38
23 21 13 23-2657 EA 3/8" Diameter, 5" Length, Chrome Plated Nipple.....	36.86	17.30
23 21 13 23-2658 EA 1/2" Diameter, 5" Length, Chrome Plated Nipple.....	42.56	19.45
23 21 13 23-2659 EA 3/4" Diameter, 5" Length, Chrome Plated Nipple.....	57.03	23.43
23 21 13 23-2660 EA 1" Diameter, 5" Length, Chrome Plated Nipple.....	79.80	29.55
23 21 13 23-2661 EA 1-1/4" Diameter, 5" Length, Chrome Plated Nipple.....	114.18	39.82
23 21 13 23-2662 EA 1-1/2" Diameter, 5" Length, Chrome Plated Nipple.....	135.51	45.94
23 21 13 23-2663 EA 2" Diameter, 5" Length, Chrome Plated Nipple.....	168.40	56.20
<b>23 21 13 23-2664 5-1/2" Nipples (23 21 13 23-2587)</b>		
23 21 13 23-2665 EA 1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	39.40	16.85
23 21 13 23-2666 EA 3/8" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	38.16	17.91
23 21 13 23-2667 EA 1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	46.18	19.90
23 21 13 23-2668 EA 3/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	59.02	24.04
23 21 13 23-2669 EA 1" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	82.31	30.17
23 21 13 23-2670 EA 1-1/4" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	121.00	40.27
23 21 13 23-2671 EA 1-1/2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	141.64	46.40
23 21 13 23-2672 EA 2" Diameter, 5-1/2" Length, Chrome Plated Nipple.....	175.55	56.66
<b>23 21 13 23-2673 6" Nipples (23 21 13 23-2587)</b>		
23 21 13 23-2674 EA 1/4" Diameter, 6" Length, Chrome Plated Nipple.....	40.83	17.30
23 21 13 23-2675 EA 3/8" Diameter, 6" Length, Chrome Plated Nipple.....	38.97	18.38
23 21 13 23-2676 EA 1/2" Diameter, 6" Length, Chrome Plated Nipple.....	47.51	20.37
23 21 13 23-2677 EA 3/4" Diameter, 6" Length, Chrome Plated Nipple.....	60.69	24.50
23 21 13 23-2678 EA 1" Diameter, 6" Length, Chrome Plated Nipple.....	89.53	30.63
23 21 13 23-2679 EA 1-1/4" Diameter, 6" Length, Chrome Plated Nipple.....	125.26	40.88
23 21 13 23-2680 EA 1-1/2" Diameter, 6" Length, Chrome Plated Nipple.....	151.00	47.01
23 21 13 23-2681 EA 2" Diameter, 6" Length, Chrome Plated Nipple.....	182.11	57.27
<b>23 21 13 23-2682 8" Nipples (23 21 13 23-2587)</b>		
23 21 13 23-2683 EA 3/8" Diameter, 8" Length, Chrome Plated Nipple.....	45.61	19.45
23 21 13 23-2684 EA 1/2" Diameter, 8" Length, Chrome Plated Nipple.....	64.87	21.44
23 21 13 23-2685 EA 3/4" Diameter, 8" Length, Chrome Plated Nipple.....	78.68	25.57
23 21 13 23-2686 EA 1" Diameter, 8" Length, Chrome Plated Nipple.....	103.78	31.69
23 21 13 23-2687 EA 1-1/4" Diameter, 8" Length, Chrome Plated Nipple.....	147.64	41.81
23 21 13 23-2688 EA 1-1/2" Diameter, 8" Length, Chrome Plated Nipple.....	180.16	47.93
23 21 13 23-2689 EA 2" Diameter, 8" Length, Chrome Plated Nipple.....	221.65	58.19
<b>23 21 13 23-2690 10" Nipples (23 21 13 23-2587)</b>		
23 21 13 23-2691 EA 3/8" Diameter, 10" Length, Chrome Plated Nipple.....	51.57	19.45
23 21 13 23-2692 EA 1/2" Diameter, 10" Length, Chrome Plated Nipple.....	72.38	21.44
23 21 13 23-2693 EA 3/4" Diameter, 10" Length, Chrome Plated Nipple.....	87.38	25.57
23 21 13 23-2694 EA 1" Diameter, 10" Length, Chrome Plated Nipple.....	116.95	31.69
23 21 13 23-2695 EA 1-1/4" Diameter, 10" Length, Chrome Plated Nipple.....	175.84	41.81
23 21 13 23-2696 EA 1-1/2" Diameter, 10" Length, Chrome Plated Nipple.....	201.63	47.93
23 21 13 23-2697 EA 2" Diameter, 10" Length, Chrome Plated Nipple.....	255.97	58.19
<b>23 21 13 23-2698 12" Nipples (23 21 13 23-2587)</b>		
23 21 13 23-2699 EA 3/8" Diameter, 12" Length, Chrome Plated Nipple.....	57.48	21.44
23 21 13 23-2700 EA 1/2" Diameter, 12" Length, Chrome Plated Nipple.....	75.78	22.51
23 21 13 23-2701 EA 3/4" Diameter, 12" Length, Chrome Plated Nipple.....	95.94	26.49
23 21 13 23-2702 EA 1" Diameter, 12" Length, Chrome Plated Nipple.....	136.07	33.68
23 21 13 23-2703 EA 1-1/4" Diameter, 12" Length, Chrome Plated Nipple.....	196.21	43.95
23 21 13 23-2704 EA 2" Diameter, 12" Length, Chrome Plated Nipple.....	286.56	60.33

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR		DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
CSI	UOM			
23 21 13 23-2705		<b>18" Nipples</b> <small>(23 21 13 23-2587)</small>		
23 21 13 23-2706	EA	3/8" Diameter, 18" Length, Chrome Plated Nipple.....	71.58	22.51
23 21 13 23-2707		<b>24" Nipples</b> <small>(23 21 13 23-2587)</small>		
23 21 13 23-2708	EA	3/8" Diameter, 24" Length, Chrome Plated Nipple.....	85.11	23.43
23 21 13 23-2709		<b>30" Nipples</b> <small>(23 21 13 23-2587)</small>		
23 21 13 23-2710	EA	3/8" Diameter, 30" Length, Chrome Plated Nipple.....	93.87	24.50
23 21 13 23-2711		<b>36" Nipples</b> <small>(23 21 13 23-2587)</small>		
23 21 13 23-2712	EA	3/8" Diameter, 36" Length, Chrome Plated Nipple.....	102.64	25.57
23 21 13 23-2713		<b>Chrome Plated Fittings</b> <small>(23 21 13 23-2586)</small>		
23 21 13 23-2714		<b>Chrome Plated 90 Degree Elbows</b> <small>(23 21 13 23-2713)</small>		
23 21 13 23-2715	EA	1/4" 90 Degree Elbow, Chrome Plated.....	31.47	14.24
23 21 13 23-2716	EA	3/8" 90 Degree Elbow, Chrome Plated.....	32.36	15.31
23 21 13 23-2717	EA	1/2" 90 Degree Elbow, Chrome Plated.....	36.10	16.38
23 21 13 23-2718	EA	3/4" 90 Degree Elbow, Chrome Plated.....	46.28	21.44
23 21 13 23-2719	EA	1" 90 Degree Elbow, Chrome Plated.....	62.30	27.56
23 21 13 23-2720	EA	1-1/4" 90 Degree Elbow, Chrome Plated.....	94.23	37.83
23 21 13 23-2721	EA	1-1/2" 90 Degree Elbow, Chrome Plated.....	112.69	43.95
23 21 13 23-2722	EA	2" 90 Degree Elbow, Chrome Plated.....	152.21	54.21
23 21 13 23-2723		<b>Chrome Plated Street 90 Degree Elbows</b> <small>(23 21 13 23-2713)</small>		
23 21 13 23-2724	EA	1/4" Street 90 Degree Elbow, Chrome Plated.....	35.68	14.24
23 21 13 23-2725	EA	3/8" Street 90 Degree Elbow, Chrome Plated.....	36.97	15.31
23 21 13 23-2726	EA	1/2" Street 90 Degree Elbow, Chrome Plated.....	39.31	16.38
23 21 13 23-2727	EA	3/4" Street 90 Degree Elbow, Chrome Plated.....	51.01	21.44
23 21 13 23-2728	EA	1" Street 90 Degree Elbow, Chrome Plated.....	71.03	27.56
23 21 13 23-2729	EA	1-1/4" Street 90 Degree Elbow, Chrome Plated.....	103.18	37.83
23 21 13 23-2730	EA	1-1/2" Street 90 Degree Elbow, Chrome Plated.....	125.22	43.95
23 21 13 23-2731	EA	2" Street 90 Degree Elbow, Chrome Plated.....	181.68	54.21
23 21 13 23-2732		<b>Chrome Plated 45 Degree Elbows</b> <small>(23 21 13 23-2713)</small>		
23 21 13 23-2733	EA	1/4" 45 Degree Elbow, Chrome Plated.....	32.40	14.24
23 21 13 23-2734	EA	3/8" 45 Degree Elbow, Chrome Plated.....	33.69	15.31
23 21 13 23-2735	EA	1/2" 45 Degree Elbow, Chrome Plated.....	37.05	16.38
23 21 13 23-2736	EA	3/4" 45 Degree Elbow, Chrome Plated.....	49.89	21.44
23 21 13 23-2737	EA	1" 45 Degree Elbow, Chrome Plated.....	66.34	27.56
23 21 13 23-2738	EA	1-1/4" 45 Degree Elbow, Chrome Plated.....	99.09	37.83
23 21 13 23-2739	EA	1-1/2" 45 Degree Elbow, Chrome Plated.....	119.18	43.95
23 21 13 23-2740	EA	2" 45 Degree Elbow, Chrome Plated.....	170.04	54.21
23 21 13 23-2741		<b>Chrome Plated Street 45 Degree Elbows</b> <small>(23 21 13 23-2713)</small>		
23 21 13 23-2742	EA	1/2" Street 45 Degree Elbow, Chrome Plated.....	42.83	16.38
23 21 13 23-2743		<b>Chrome Plated Couplings</b> <small>(23 21 13 23-2713)</small>		
23 21 13 23-2744	EA	1/4" Coupling, Chrome Plated.....	30.90	14.24
23 21 13 23-2745	EA	3/8" Coupling, Chrome Plated.....	32.43	15.31
23 21 13 23-2746	EA	1/2" Coupling, Chrome Plated.....	36.34	16.38
23 21 13 23-2747	EA	3/4" Coupling, Chrome Plated.....	46.37	21.44
23 21 13 23-2748	EA	1" Coupling, Chrome Plated.....	60.31	27.56
23 21 13 23-2749	EA	1-1/4" Coupling, Chrome Plated.....	86.97	37.83
23 21 13 23-2750	EA	1-1/2" Coupling, Chrome Plated.....	106.60	43.95
23 21 13 23-2751	EA	2" Coupling, Chrome Plated.....	144.77	54.21
23 21 13 23-2752		<b>Chrome Plated Unions</b> <small>(23 21 13 23-2713)</small>		
23 21 13 23-2753	EA	1/4" Union, Chrome Plated.....	47.34	16.38
23 21 13 23-2754	EA	3/8" Union, Chrome Plated.....	48.90	17.30
23 21 13 23-2755	EA	1/2" Union, Chrome Plated.....	58.56	19.45
23 21 13 23-2756	EA	3/4" Union, Chrome Plated.....	73.13	25.57
23 21 13 23-2757	EA	1" Union, Chrome Plated.....	92.61	32.62
23 21 13 23-2758	EA	1-1/4" Union, Chrome Plated.....	147.07	43.95
23 21 13 23-2759	EA	1-1/2" Union, Chrome Plated.....	182.22	52.06
23 21 13 23-2760	EA	2" Union, Chrome Plated.....	236.20	63.40
23 21 13 23-2761		<b>Chrome Plated Caps</b> <small>(23 21 13 23-2713)</small>		
23 21 13 23-2762	EA	1/4" Cap, Chrome Plated.....	19.94	7.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2763 EA 3/8" Cap, Chrome Plated.....	20.70	7.66
23 21 13 23-2764 EA 1/2" Cap, Chrome Plated.....	23.45	8.11
23 21 13 23-2765 EA 3/4" Cap, Chrome Plated.....	29.43	10.72
23 21 13 23-2766 EA 1" Cap, Chrome Plated.....	35.33	13.78
23 21 13 23-2767 EA 1-1/4" Cap, Chrome Plated.....	51.66	18.84
23 21 13 23-2768 EA 1-1/2" Cap, Chrome Plated.....	67.05	21.89
23 21 13 23-2769 EA 2" Cap, Chrome Plated.....	96.86	28.64
<b>23 21 13 23-2770 Chrome Plated Plugs (23 21 13 23-2713)</b>		
23 21 13 23-2771 EA 1/4" Plug, Chrome Plated.....	16.73	7.20
23 21 13 23-2772 EA 3/8" Plug, Chrome Plated.....	17.49	7.66
23 21 13 23-2773 EA 1/2" Plug, Chrome Plated.....	20.07	8.11
23 21 13 23-2774 EA 3/4" Plug, Chrome Plated.....	27.03	10.72
23 21 13 23-2775 EA 1" Plug, Chrome Plated.....	33.51	13.78
23 21 13 23-2776 EA 1-1/4" Plug, Chrome Plated.....	45.33	18.84
23 21 13 23-2777 EA 1-1/2" Plug, Chrome Plated.....	55.48	21.89
23 21 13 23-2778 EA 2" Plug, Chrome Plated.....	76.72	28.64
<b>23 21 13 23-2779 Chrome Plated Tees (23 21 13 23-2713)</b>		
23 21 13 23-2780 EA 1/4" Chrome Plated Tee.....	44.26	21.44
23 21 13 23-2781 EA 3/8" Chrome Plated Tee.....	47.32	23.43
23 21 13 23-2782 EA 1/2" Chrome Plated Tee.....	52.52	25.57
23 21 13 23-2783 EA 3/4" Chrome Plated Tee.....	65.37	31.69
23 21 13 23-2784 EA 1" Chrome Plated Tee.....	91.53	40.88
23 21 13 23-2785 EA 1-1/4" Chrome Plated Tee.....	126.13	56.20
23 21 13 23-2786 EA 1-1/2" Chrome Plated Tee.....	159.26	65.39
23 21 13 23-2787 EA 2" Chrome Plated Tee.....	215.43	80.70
<b>23 21 13 23-2788 Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2713)</b>		
23 21 13 23-2789 EA 1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated.....	50.38	25.57
23 21 13 23-2790 EA 3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated.....	59.57	31.69
<b>23 21 13 23-2791 Chrome Plated Bell Reducers (23 21 13 23-2713)</b>		
23 21 13 23-2792 EA 1/2" x 3/8" Bell Reducer, Chrome Plated.....	54.25	25.57
23 21 13 23-2793 EA 3/4" x 1/2" Bell Reducer, Chrome Plated.....	66.25	31.69
23 21 13 23-2794 EA 1" x 1/2" Bell Reducer, Chrome Plated.....	84.39	40.88
<b>23 21 13 23-2795 Chrome Plated Reducing Tees (23 21 13 23-2713)</b>		
23 21 13 23-2796 EA 3/4" x 1/2" Reducing Tee, Chrome Plated.....	71.17	31.69
<b>23 21 13 23-2797 Chrome Plated Bushings (23 21 13 23-2713)</b>		
23 21 13 23-2798 EA 3/8" x 1/4" Bushing, Chrome Plated.....	16.64	7.20
23 21 13 23-2799 EA 1/2" x 1/4" Bushing, Chrome Plated.....	17.90	7.66
23 21 13 23-2800 EA 1/2" x 3/8" Bushing, Chrome Plated.....	18.67	8.11
23 21 13 23-2801 EA 3/4" x 1/2" Bushing, Chrome Plated.....	23.84	10.72
23 21 13 23-2802 EA 1" x 3/4" Bushing, Chrome Plated.....	34.12	13.78
23 21 13 23-2803 EA 1-1/4" x 1" Bushing, Chrome Plated.....	49.49	18.84
<b>23 21 13 23-2804 Aluminum Tubing Assemblies (23 21 13 23)</b>		
Note: ASTM B210 (Tubing), ASTM B26 (Fittings). Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2805 LF 1/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....	13.33	5.36
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2806 LF 3/16" Inside Diameter Aluminum Pipe/Tubing Assembly.....	15.19	6.12
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2807 LF 1/4" Inside Diameter Aluminum Pipe/Tubing Assembly.....	16.92	6.90
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2808 LF 5/16" Inside Diameter Aluminum Pipe/Tubing Assembly.....	18.52	7.66
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2809 LF 3/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....	20.52	8.42
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2810 LF 1/2" Inside Diameter Aluminum Pipe/Tubing Assembly.....	23.50	9.19
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2811 LF 5/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....	27.47	10.57
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2812 LF 3/4" Inside Diameter Aluminum Pipe/Tubing Assembly.....	33.66	11.99
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2813 LF 7/8" Inside Diameter Aluminum Pipe/Tubing Assembly.....	38.95	13.39
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2814 LF 1" Inside Diameter Aluminum Pipe/Tubing Assembly.....	46.40	14.10
<b>23 21 16 Hydronic Piping Specialties (23 21)</b>		
<b>23 21 16 00-0001 Vent Valves (23 21 16)</b>		
23 21 16 00-0002 EA 1/8", 1.5 PSIG Operating Pressure, Non-Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A).....	92.46	22.98
23 21 16 00-0003 EA 1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74).....	210.17	24.71
23 21 16 00-0004 EA 1/2" x 3/4", 3 PSIG Operating Pressure, Non-Vacuum Main Steam Air Vent Valve (Hoffman 75).....	200.84	24.71
23 21 16 00-0005 EA 1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H).....	207.37	24.71
23 21 16 00-0006 EA 3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78).....	264.49	24.71
23 21 16 00-0007 EA 1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79).....	198.28	24.71
<b>23 21 16 00-0008 Threaded Inlet, Drip-Pan Elbow (23 21 16)</b>		
<b>23 21 16 00-0009 Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)</b>		
23 21 16 00-0010 EA 2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	321.59	38.52
For Flanged Inlet, Add	114.91	
23 21 16 00-0011 EA 3" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	365.51	45.66
For Flanged Inlet, Add	123.35	
23 21 16 00-0012 EA 3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	457.69	52.79
For Flanged Inlet, Add	166.42	
23 21 16 00-0013 EA 4" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	672.43	59.92
For Flanged Inlet, Add	292.80	
23 21 16 00-0014 EA 5" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	761.36	71.34
For Flanged Inlet, Add	323.67	
23 21 16 00-0015 EA 6" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	1,052.31	89.90
For Flanged Inlet, Add	473.01	
23 21 16 00-0016 EA 8" Cast Iron, Threaded Inlet, Drip-Pan Elbow.....	2,326.59	118.43
For Flanged Inlet, Add	1,258.67	
<b>23 21 16 00-0017 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)</b>		
23 21 16 00-0018 EA 2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	1,296.20	38.52
For Flanged Inlet, Add	777.64	
23 21 16 00-0019 EA 3" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	1,569.83	45.66
For Flanged Inlet, Add	942.29	
23 21 16 00-0020 EA 3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	2,278.15	52.79
For Flanged Inlet, Add	1,404.33	
23 21 16 00-0021 EA 4" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	2,307.03	59.92
For Flanged Inlet, Add	1,404.33	
23 21 16 00-0022 EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	3,366.66	71.34
For Flanged Inlet, Add	2,095.28	
23 21 16 00-0023 EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	3,438.00	89.90
For Flanged Inlet, Add	2,095.28	
23 21 16 00-0024 EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow.....	5,766.94	118.43
For Flanged Inlet, Add	3,598.10	
<b>23 21 16 00-0025 Y-Type Strainers (23 21 16)</b>		
<b>23 21 16 00-0026 Screwed Ends, 250 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)</b>		
23 21 16 00-0027 EA 1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	92.55	17.15
For Galvanized Body, Add	21.77	
For Work In Restricted Working Space, Add	14.71	
23 21 16 00-0028 EA 1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	93.31	17.47
For Galvanized Body, Add	21.77	
For Work In Restricted Working Space, Add	14.93	
23 21 16 00-0029 EA 3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	119.36	23.59
For Galvanized Body, Add	25.98	
For Work In Restricted Working Space, Add	20.22	
23 21 16 00-0030 EA 1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	150.63	28.18
For Galvanized Body, Add	35.11	
For Work In Restricted Working Space, Add	24.13	
23 21 16 00-0031 EA 1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	195.76	34.85
For Galvanized Body, Add	48.10	
For Work In Restricted Working Space, Add	29.87	
23 21 16 00-0032 EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	223.08	37.53
For Galvanized Body, Add	57.93	
For Work In Restricted Working Space, Add	32.17	
23 21 16 00-0033 EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	300.88	42.89
For Galvanized Body, Add	89.17	
For Work In Restricted Working Space, Add	36.76	
23 21 16 00-0034 EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer.....	554.10	53.61
For Galvanized Body, Add	200.46	
For Work In Restricted Working Space, Add	45.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0035 EA 3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	715.27 261.90 57.44	67.09
<b>23 21 16 00-0036 Flanged, 125 LB, Iron Body , Y-Type Strainers</b> (23 21 16 00-0025)		
23 21 16 00-0037 EA 1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	382.28 90.37 60.47	160.84
23 21 16 00-0038 EA 2" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	450.88 97.79 76.59	204.19
23 21 16 00-0039 EA 3" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	792.15 233.12 97.77	260.40
23 21 16 00-0040 EA 4" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,076.15 264.55 164.12	436.55
23 21 16 00-0041 EA 5" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,140.70 295.97 164.63	439.69
23 21 16 00-0042 EA 6" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,348.03 367.58 183.86	488.55
23 21 16 00-0043 EA 8" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,223.36 723.94 232.64	624.26
23 21 16 00-0044 EA 10" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,177.02 1,613.53 284.99	759.97
23 21 16 00-0045 EA 12" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,712.51 1,677.72 407.12	678.55
<b>23 21 16 00-0046 Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers</b> (23 21 16 00-0025) Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0047 EA 1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	82.52 55.66 14.93	17.47
23 21 16 00-0048 EA 3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.96 72.35 20.22	23.59
23 21 16 00-0049 EA 1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.03 91.14 24.13	28.18
23 21 16 00-0050 EA 1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	166.69 114.10 29.87	34.85
23 21 16 00-0051 EA 1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	194.40 148.19 32.17	37.53
23 21 16 00-0052 EA 2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	264.14 240.72 36.76	42.89
23 21 16 00-0053 EA 2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	386.86 397.26 45.95	53.61
23 21 16 00-0054 EA 3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	675.97 823.65 57.44	67.09
23 21 16 00-0055 EA 4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,149.27 1,563.15 68.93	80.42
<b>23 21 16 00-0056 Flanged, 150 LB, Bronze Body, Y-Type Strainers</b> (23 21 16 00-0025) Note: With bolted cap.		
23 21 16 00-0057 EA 2" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	662.00 244.02 76.59	204.19
23 21 16 00-0058 EA 2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	692.88 248.62 83.55	222.11
23 21 16 00-0059 EA 3" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	800.40 284.69 97.77	260.40
23 21 16 00-0060 EA 4" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,699.99 691.76 164.12	436.55
23 21 16 00-0061 EA 6" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,360.53 1,048.59 183.86	488.55

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0062 EA 8" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,757.98 1,789.50 232.64	624.26
23 21 16 00-0063 EA 10" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	11,654.57 6,422.77 284.99	759.97
<b>23 21 16 00-0064 Cast Iron Body, Suction Diffusers</b> <sup>(23 21 16)</sup> Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		
23 21 16 00-0065 EA 2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	562.39 29.55	60.35
23 21 16 00-0066 EA 2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	591.86 32.82	66.94
23 21 16 00-0067 EA 2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	602.02 34.48	70.31
23 21 16 00-0068 EA 2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,150.63 83.55	222.11
23 21 16 00-0069 EA 3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	625.20 40.04	81.80
23 21 16 00-0070 EA 3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	704.06 40.04	81.80
23 21 16 00-0071 EA 3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,206.81 90.66	241.77
23 21 16 00-0072 EA 3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,235.15 97.77	260.40
23 21 16 00-0073 EA 4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,508.09 130.95	349.19
23 21 16 00-0074 EA 4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,781.02 164.12	436.55
23 21 16 00-0075 EA 6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,023.96 164.63	439.02
23 21 16 00-0076 EA 6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,435.99 183.86	488.55
23 21 16 00-0077 EA 8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,770.23 232.64	624.26
23 21 16 00-0078 EA 8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	4,203.67 232.64	624.26
23 21 16 00-0079 EA 10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	4,814.21 284.99	759.97
23 21 16 00-0080 EA 10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	5,598.20 284.99	759.97
<b>23 21 16 00-0081 Duplex Strainers</b> <sup>(23 21 16)</sup>		
<b>23 21 16 00-0082 Iron Body, Duplex Strainers</b> <sup>(23 21 16 00-0081)</sup>		
<b>23 21 16 00-0083 Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers</b> <sup>(23 21 16 00-0082)</sup> Note: With brass or stainless steel basket.		
23 21 16 00-0084 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	911.18 22.90	38.14
23 21 16 00-0085 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,017.89 26.21	43.66
23 21 16 00-0086 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,376.59 30.77	51.31
23 21 16 00-0087 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,729.34 33.55	55.91
23 21 16 00-0088 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,315.21 41.03	68.16
23 21 16 00-0089 EA 2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,913.93 52.37	87.31
<b>23 21 16 00-0090 Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers</b> <sup>(23 21 16 00-0082)</sup> Note: With brass or stainless steel basket.		
23 21 16 00-0091 EA 2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,168.58 76.59	204.19
23 21 16 00-0092 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,278.75 83.55	222.11
23 21 16 00-0093 EA 3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,195.79 97.77	260.40
23 21 16 00-0094 EA 4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	6,572.11 145.40	386.77
23 21 16 00-0095 EA 6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	12,787.77 183.86	488.55
23 21 16 00-0096 EA 8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	24,255.62 232.64	624.26
23 21 16 00-0097 EA 10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	33,474.31 284.99	759.97
23 21 16 00-0098 EA 12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	38,093.61 575.04	958.11
23 21 16 00-0099 EA 14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	45,186.68 407.12	1,085.67





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0100 EA 16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	56,453.73 447.84	1,194.23
<b>23 21 16 00-0101 Bronze Body, Duplex Strainers (23 21 16 00-0081)</b>		
<b>23 21 16 00-0102 Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers (23 21 16 00-0101)</b> <small>Note: With brass or stainless steel basket.</small>		
23 21 16 00-0103 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,685.15 22.90	38.29
23 21 16 00-0104 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,870.13 26.21	43.66
23 21 16 00-0105 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	2,733.22 30.77	51.31
23 21 16 00-0106 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	3,590.36 33.55	55.91
23 21 16 00-0107 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	4,637.13 41.03	68.16
23 21 16 00-0108 EA 2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	5,696.76 52.37	87.31
<b>23 21 16 00-0109 Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers (23 21 16 00-0101)</b> <small>Note: With brass or stainless steel basket.</small>		
23 21 16 00-0110 EA 2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	6,516.67 76.59	204.19
23 21 16 00-0111 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	6,713.81 83.55	222.11
23 21 16 00-0112 EA 3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	9,196.19 97.77	260.40
23 21 16 00-0113 EA 4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	14,485.79 145.40	386.77
23 21 16 00-0114 EA 6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	31,397.96 183.86	488.55
<b>23 21 16 00-0115 Cast Steel Body, Duplex Strainers (23 21 16 00-0081)</b>		
<b>23 21 16 00-0116 Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0115)</b> <small>Note: With brass or stainless steel basket.</small>		
23 21 16 00-0117 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	2,619.56 26.22	43.66
23 21 16 00-0118 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	3,225.56 30.77	51.31
23 21 16 00-0119 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	3,825.69 33.55	55.91
23 21 16 00-0120 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	6,467.20 41.03	68.16
<b>23 21 16 00-0121 Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0115)</b> <small>Note: With brass or stainless steel basket.</small>		
23 21 16 00-0122 EA 2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	6,627.93 76.59	204.19
23 21 16 00-0123 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	7,284.19 83.55	222.11
23 21 16 00-0124 EA 3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	9,568.34 97.77	260.40
23 21 16 00-0125 EA 4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	14,031.79 145.40	386.77
23 21 16 00-0126 EA 6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	23,908.87 183.86	488.55
23 21 16 00-0127 EA 8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	46,523.40 232.64	624.26
<b>23 21 16 00-0128 Stainless Steel Body, Duplex Strainers (23 21 16 00-0081)</b>		
<b>23 21 16 00-0129 Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0128)</b> <small>Note: With stainless steel basket.</small>		
23 21 16 00-0130 EA 1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	6,511.28 26.22	43.66
23 21 16 00-0131 EA 1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	8,227.58 30.77	51.31
23 21 16 00-0132 EA 1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	9,926.11 33.55	55.91
23 21 16 00-0133 EA 2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	15,899.09 41.03	68.16

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0134			<b>Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers</b> <small>(23 21 16 00-0128)</small> Note: With stainless steel basket.		
23 21 16 00-0135	EA		2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	16,671.90	204.19
			<i>For Work In Restricted Working Space, Add</i>	76.59	
23 21 16 00-0136	EA		2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	17,527.84	222.11
			<i>For Work In Restricted Working Space, Add</i>	83.55	
23 21 16 00-0137	EA		3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	27,448.99	260.40
			<i>For Work In Restricted Working Space, Add</i>	97.77	
23 21 16 00-0138	EA		4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	33,555.79	386.77
			<i>For Work In Restricted Working Space, Add</i>	145.40	
23 21 16 00-0139	EA		6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	58,903.71	488.55
			<i>For Work In Restricted Working Space, Add</i>	183.86	
23 21 16 00-0140	EA		8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer.....	108,791.95	624.26
			<i>For Work In Restricted Working Space, Add</i>	232.64	
23 21 16 00-0141			<b>Pressure Regulating Valve</b> <small>(23 21 16)</small>		
23 21 16 00-0142			<b>Screwed Ends, Iron Body, Water Pressure Reducing Valves</b> <small>(23 21 16 00-0141)</small> Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating		
23 21 16 00-0143	EA		1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....	246.49	19.14
			<i>For Work In Restricted Working Space, Add</i>	22.97	
23 21 16 00-0144	EA		3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....	301.64	21.44
			<i>For Work In Restricted Working Space, Add</i>	25.52	
23 21 16 00-0145	EA		1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....	392.02	22.97
			<i>For Work In Restricted Working Space, Add</i>	27.02	
23 21 16 00-0146	EA		1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....	660.21	25.72
			<i>For Work In Restricted Working Space, Add</i>	30.63	
23 21 16 00-0147	EA		1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....	892.41	30.63
			<i>For Work In Restricted Working Space, Add</i>	36.75	
23 21 16 00-0148	EA		2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....	1,281.67	46.95
			<i>For Work In Restricted Working Space, Add</i>	56.39	
23 21 16 00-0149	EA		2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....	1,395.81	52.86
			<i>For Work In Restricted Working Space, Add</i>	63.44	
23 21 16 00-0150	EA		3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve .....	1,534.30	152.97
			<i>For Work In Restricted Working Space, Add</i>	70.49	
23 21 16 00-0151			<b>Cast Iron Body, Steam Pressure Regulator And Reducer</b> <small>(23 21 16 00-0141)</small> Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0152			<b>Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer</b> <small>(23 21 16 00-0151)</small>		
23 21 16 00-0153	EA		1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	408.82	25.73
			<i>For Work In Restricted Working Space, Add</i>	30.84	
23 21 16 00-0154	EA		3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	516.08	36.46
			<i>For Work In Restricted Working Space, Add</i>	43.76	
23 21 16 00-0155	EA		1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	661.10	44.42
			<i>For Work In Restricted Working Space, Add</i>	53.44	
23 21 16 00-0156	EA		1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	877.00	53.92
			<i>For Work In Restricted Working Space, Add</i>	62.10	
23 21 16 00-0157	EA		1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	1,167.09	61.28
			<i>For Work In Restricted Working Space, Add</i>	70.70	
23 21 16 00-0158	EA		2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	1,366.90	85.61
			<i>For Work In Restricted Working Space, Add</i>	85.61	
23 21 16 00-0159			<b>Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer</b> <small>(23 21 16 00-0151)</small> Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0160	EA		2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	3,055.17	206.89
			<i>For Work In Restricted Working Space, Add</i>	77.83	
23 21 16 00-0161	EA		3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	3,794.33	242.56
			<i>For Work In Restricted Working Space, Add</i>	91.08	
23 21 16 00-0162	EA		4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	4,909.17	406.65
			<i>For Work In Restricted Working Space, Add</i>	152.87	
23 21 16 00-0163	EA		6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer.....	12,022.56	449.69
			<i>For Work In Restricted Working Space, Add</i>	169.24	
23 21 16 00-0164			<b>Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves</b> <small>(23 21 16 00-0141)</small>		
23 21 16 00-0165			<b>Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves</b> <small>(23 21 16 00-0164)</small>		
23 21 16 00-0166	EA		1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....	2,191.43	18.69
			<i>For Work In Restricted Working Space, Add</i>	28.03	
23 21 16 00-0167	EA		3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....	2,236.93	18.69
			<i>For Work In Restricted Working Space, Add</i>	28.03	
23 21 16 00-0168	EA		1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....	2,387.83	23.59
			<i>For Work In Restricted Working Space, Add</i>	35.39	
23 21 16 00-0169	EA		1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve .....	2,809.25	30.02
			<i>For Work In Restricted Working Space, Add</i>	45.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0170 EA 1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve ..... <i>For Work In Restricted Working Space, Add</i>	3,216.45 51.93	34.62
23 21 16 00-0171 EA 2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve ..... <i>For Work In Restricted Working Space, Add</i>	3,985.19 61.12	40.74
<b>23 21 16 00-0172 Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves (23 21 16 00-0164)</b>		
23 21 16 00-0173 EA 2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve ..... <i>For Work In Restricted Working Space, Add</i>	4,925.57 77.83	206.89
23 21 16 00-0174 EA 3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve ..... <i>For Work In Restricted Working Space, Add</i>	6,071.81 91.08	242.56
23 21 16 00-0175 EA 4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve ..... <i>For Work In Restricted Working Space, Add</i>	9,209.94 152.87	406.65
23 21 16 00-0176 EA 6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve ..... <i>For Work In Restricted Working Space, Add</i>	20,083.06 169.24	449.69
<b>23 21 16 00-0177 Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves (23 21 16 00-0141)</b>		
23 21 16 00-0178 EA 1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....	274.43	19.90
23 21 16 00-0179 EA 3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....	337.25	22.05
23 21 16 00-0180 EA 1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....	441.67	23.43
23 21 16 00-0181 EA 1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....	751.98	26.65
23 21 16 00-0182 EA 1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....	1,018.96	31.85
23 21 16 00-0183 EA 2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....	1,461.50	48.78
23 21 16 00-0184 EA 2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....	1,583.49	53.15
23 21 16 00-0185 EA 3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve .....	1,747.95	61.19
<b>23 21 16 00-0186 Screwed Ends, Bronze Body, Water Pressure Reducing Valves (23 21 16 00-0141)</b>		
Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0187 EA 1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....	221.44	19.14
23 21 16 00-0188 EA 3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....	243.53	21.44
23 21 16 00-0189 EA 1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....	299.53	23.73
23 21 16 00-0190 EA 1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....	687.88	25.72
23 21 16 00-0191 EA 1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....	747.90	30.63
23 21 16 00-0192 EA 2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve .....	1,174.32	46.95
<b>23 21 16 00-0193 Dual Unit Reducing And Relief Valve (23 21 16)</b>		
23 21 16 00-0194 EA 1/2" Dual Unit Reducing And Relief Valve .....	251.37	46.72
<b>23 21 16 00-0195 Safety Relief Valve (23 21 16)</b>		
Note: Used in water heater and hot water storage tank applications.		
<b>23 21 16 00-0196 Threaded Inlet, Bronze Body Safety Valves (23 21 16 00-0195)</b>		
Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.		
23 21 16 00-0197 EA 1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve .....	101.64	19.14
23 21 16 00-0198 EA 3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve .....	137.03	21.06
23 21 16 00-0199 EA 1" x 1" Threaded Inlet, Bronze Body Safety Valve .....	194.62	25.65
23 21 16 00-0200 EA 1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve .....	247.51	27.18
23 21 16 00-0201 EA 1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve .....	340.08	36.37
23 21 16 00-0202 EA 2" x 2" Threaded Inlet, Bronze Body Safety Valve .....	452.11	42.87
23 21 16 00-0203 EA 2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve .....	516.10	53.60
<b>23 21 16 00-0204 Threaded, Bronze Body, Temperature And Pressure Relief Valves (23 21 16)</b>		
23 21 16 00-0205 EA 1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....	110.21 58.01	39.05
<i>For Cast Iron Body, Add</i>		
23 21 16 00-0206 EA 3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....	141.23 80.83	46.86
<i>For Cast Iron Body, Add</i>		
23 21 16 00-0207 EA 1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....	205.07 128.73	62.47
<i>For Cast Iron Body, Add</i>		
23 21 16 00-0208 EA 1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....	328.24 273.58	66.92
<i>For Cast Iron Body, Add</i>		
23 21 16 00-0209 EA 1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....	541.13 523.34	75.04
<i>For Cast Iron Body, Add</i>		
23 21 16 00-0210 EA 2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve .....	632.13 569.88	107.85
<i>For Cast Iron Body, Add</i>		
<b>23 21 16 00-0211 Horizontal Steel Expansion Tanks (23 21 16)</b>		
Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.		
23 21 16 00-0212 EA 10 Gallon Horizontal Steel Expansion Tank .....	860.10	153.18
23 21 16 00-0213 EA 15 Gallon Horizontal Steel Expansion Tank .....	1,213.56	191.47
23 21 16 00-0214 EA 30 Gallon Horizontal Steel Expansion Tank .....	1,587.82	229.77
23 21 16 00-0215 EA 40 Gallon Horizontal Steel Expansion Tank .....	1,828.18	268.06
23 21 16 00-0216 EA 60 Gallon Horizontal Steel Expansion Tank .....	2,098.47	271.42



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0217			<b>Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks (23 21 16)</b>		
			Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.		
23 21 16 00-0218	EA		7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,646.35	114.88
23 21 16 00-0219	EA		10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,725.80	134.04
23 21 16 00-0220	EA		21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,551.09	153.18
23 21 16 00-0221	EA		33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,662.03	172.32
23 21 16 00-0222	EA		44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,589.02	191.47
23 21 16 00-0223	EA		55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,789.55	210.62
23 21 16 00-0224	EA		68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,496.17	229.77
23 21 16 00-0225	EA		77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,812.94	248.91
23 21 16 00-0226	EA		90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,301.63	268.06
23 21 16 00-0227	EA		110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,465.40	306.36
23 21 16 00-0228	EA		132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	6,837.49	344.65
23 21 16 00-0229	EA		158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	7,834.25	382.95
23 21 16 00-0230	EA		211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	9,101.32	459.53
23 21 16 00-0231			<b>Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (Armstrong AX) (23 21 16)</b>		
			Note: ASME. Precharged with working pressure 125 psi		
23 21 16 00-0232	EA		8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,869.13	114.88
23 21 16 00-0233	EA		11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,936.47	134.04
23 21 16 00-0234	EA		22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,754.50	153.18
23 21 16 00-0235	EA		34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,945.34	172.32
23 21 16 00-0236	EA		44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,731.88	191.47
23 21 16 00-0237	EA		56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,929.99	210.62
23 21 16 00-0238	EA		67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,779.49	229.77
23 21 16 00-0239	EA		77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,166.48	248.91
23 21 16 00-0240	EA		91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,710.87	268.06
23 21 16 00-0241	EA		111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,867.37	306.36
23 21 16 00-0242	EA		132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	7,203.14	344.65
23 21 16 00-0243	EA		158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	8,350.03	382.95
23 21 16 00-0244	EA		211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	9,626.78	459.53
23 21 16 00-0245			<b>Diaphragm Type (Residential Style) Steel Expansion Tanks (23 21 16)</b>		
23 21 16 00-0246	EA		2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1).....	109.77	14.10
23 21 16 00-0247	EA		4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1).....	154.73	14.10
23 21 16 00-0248			<b>Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks (23 21 16)</b>		
23 21 16 00-0249	EA		15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,418.44	459.69
23 21 16 00-0250	EA		20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,469.21	459.69
23 21 16 00-0251	EA		30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,519.98	459.69
23 21 16 00-0252	EA		40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,651.96	459.69
23 21 16 00-0253	EA		47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,003.45	612.56
23 21 16 00-0254	EA		60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,307.56	612.86
23 21 16 00-0255	EA		80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,367.87	612.86
23 21 16 00-0256	EA		87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,428.17	612.86
23 21 16 00-0257	EA		120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	3,083.15	765.89
23 21 16 00-0258	EA		187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	8,195.91	765.89
23 21 16 00-0259	EA		264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	10,398.42	918.76
23 21 16 00-0260			<b>ASME Construction Compression Tanks (23 21 16)</b>		
			Note: With gauge glass taps. 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height. See CSI section 22 12 00 00-0000 for other tanks.		
23 21 16 00-0261	EA		15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....	1,275.52	269.60
			For Galvanized Steel Tanks, Add	433.52	
23 21 16 00-0262	EA		24 Gallon, 13" x 51" ASME Construction Compression Tank.....	1,301.05	277.25
			For Galvanized Steel Tanks, Add	439.91	
23 21 16 00-0263	EA		30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....	1,416.85	286.44
			For Galvanized Steel Tanks, Add	490.91	
23 21 16 00-0264	EA		40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....	1,548.43	297.17
			For Galvanized Steel Tanks, Add	548.28	
23 21 16 00-0265	EA		60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....	1,800.91	314.01
			For Galvanized Steel Tanks, Add	663.03	
23 21 16 00-0266	EA		80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....	1,871.19	326.27
			For Galvanized Steel Tanks, Add	688.54	
23 21 16 00-0267	EA		100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank.....	2,309.83	355.37
			For Galvanized Steel Tanks, Add	886.18	
23 21 16 00-0268	EA		120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank.....	2,516.11	381.41
			For Galvanized Steel Tanks, Add	969.04	
23 21 16 00-0269	EA		144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank.....	3,124.33	430.43
			For Galvanized Steel Tanks, Add	1,236.26	
23 21 16 00-0270	EA		180 Gallon, 30" x 60" ASME Construction Compression Tank.....	3,960.37	493.23
			For Galvanized Steel Tanks, Add	1,606.58	
23 21 16 00-0271	EA		202 Gallon, 30" x 72" ASME Construction Compression Tank.....	4,737.65	546.85
			For Galvanized Steel Tanks, Add	1,954.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0272 EA 230 Gallon, 30" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	5,180.49 2,139.72	594.33
23 21 16 00-0273 EA 280 Gallon, 30" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	6,529.99 2,770.87	652.54
23 21 16 00-0274 EA 306 Gallon, 30" x 108" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	6,740.64 2,842.12	696.96
23 21 16 00-0275 EA 340 Gallon, 36" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	8,664.65 3,765.00	749.04
23 21 16 00-0276 EA 550 Gallon, 36" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	14,378.12 6,523.07	879.24
<b>23 21 16 00-0277 Compression Tank Air Fittings (23 21 16)</b>		
23 21 16 00-0278 EA 9" To 24" Diameter Compression Tank Air Fittings.....	449.62	42.89
23 21 16 00-0279 EA >100 Gallon Compression Tank Air Fittings .....	1,536.36	50.55
<b>23 21 16 00-0280 Thermostatic Radiator Valves (23 21 16)</b> Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0281 EA 1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015).....	96.88	24.71
23 21 16 00-0282 EA 3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020).....	119.89	33.30
23 21 16 00-0283 EA 1" Straight Thermostatic Radiator Valve (Danfoss 013G8025).....	157.15	40.32
23 21 16 00-0284 EA 1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032).....	236.77	51.07
23 21 16 00-0285 EA 1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014).....	96.88	24.71
23 21 16 00-0286 EA 3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019).....	119.89	33.30
23 21 16 00-0287 EA 1" Angle Thermostatic Radiator Valve (Danfoss 013G8024).....	157.15	40.32
23 21 16 00-0288 EA 1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031).....	236.77	51.07
23 21 16 00-0289 EA Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240).....	95.25	19.14
23 21 16 00-0290 EA Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922).....	156.94	26.81
<b>23 21 16 00-0291 Radiator Trap Repair Kits (23 21 16)</b> Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0292 EA 1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031) .....	159.64	
23 21 16 00-0293 EA 3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032) .....	199.06	
23 21 16 00-0294 EA 1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026).....	200.07	
23 21 16 00-0295 EA 3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027).....	227.96	
23 21 16 00-0296 EA 1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028).....	527.40	
<b>23 21 16 00-0297 Vortex Air Separators With Strainer (23 21 16)</b> Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.		
23 21 16 00-0298 EA 2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N) .....	1,919.11 213.75	326.27
23 21 16 00-0299 EA 2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N)..... <i>For 300 PSIG, Add</i>	2,371.76 270.66	373.75
23 21 16 00-0300 EA 3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N) .....	3,634.03 445.21	439.62
23 21 16 00-0301 EA 3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F) .....	3,884.03 476.82	465.43
23 21 16 00-0302 EA 4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F) .....	5,012.88 610.89	620.58
23 21 16 00-0303 EA 5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F) .....	6,320.09 780.37	738.26
23 21 16 00-0304 EA 6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F) .....	7,497.80 934.68	835.96
23 21 16 00-0305 EA 8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F) .....	10,778.18 1,388.74	1,002.89
23 21 16 00-0306 EA 10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F) .....	16,584.24 2,228.56	1,139.95
23 21 16 00-0307 EA 12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F) .....	22,369.58 3,020.16	1,475.15
23 21 16 00-0308 EA 14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F).....	46,580.95 6,580.02	1,791.35
23 21 16 00-0309 EA 16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	57,504.98 8,137.20	2,149.62
23 21 16 00-0310 EA 18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	75,024.83 10,683.75	2,507.89
23 21 16 00-0311 EA 20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F).....	87,780.84 12,515.72	2,866.17
<b>23 21 16 00-0312 Vortex Air Separators (23 21 16)</b> Note: Without system strainer.		
23 21 16 00-0313 EA 2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N).....	1,640.86 172.01	326.27
23 21 16 00-0314 EA 2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N)..... <i>For 300 PSIG, Add</i>	2,068.21 225.13	373.75
23 21 16 00-0315 EA 3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N).....	3,558.14 433.82	439.62
23 21 16 00-0316 EA 3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F)..... <i>For 300 PSIG, Add</i>	3,217.91 376.91	465.43

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0317 EA 4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F).....	4,313.03	620.58
For 300 PSIG, Add	505.92	
23 21 16 00-0318 EA 5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F).....	5,586.52	738.26
For 300 PSIG, Add	670.34	
23 21 16 00-0319 EA 6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F).....	6,502.83	835.96
For 300 PSIG, Add	785.43	
23 21 16 00-0320 EA 8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F).....	8,653.33	1,002.89
For 300 PSIG, Add	1,070.01	
23 21 16 00-0321 EA 10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F).....	12,039.44	1,139.95
For 300 PSIG, Add	1,546.84	
23 21 16 00-0322 EA 12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F).....	18,550.97	1,475.15
For 300 PSIG, Add	2,447.37	
23 21 16 00-0323 EA 14" Flanged, 6,100 GPM Vortex Air Separator (Rolairtrol RL-14F).....	31,574.71	1,791.35
For 300 PSIG, Add	4,329.08	
23 21 16 00-0324 EA 16" Flanged, 8,000 GPM Vortex Air Separator (Rolairtrol RL-16F).....	40,000.59	2,149.62
For 300 PSIG, Add	5,511.54	
23 21 16 00-0325 EA 18" Flanged, 9,700 GPM Vortex Air Separator (Rolairtrol RL-18F).....	53,478.30	2,507.89
For 300 PSIG, Add	7,451.77	
23 21 16 00-0326 EA 20" Flanged, 12,000 GPM Vortex Air Separator (Rolairtrol RL-20F).....	73,128.50	2,866.17
For 300 PSIG, Add	10,317.87	
23 21 16 00-0327 EA 22" Flanged, 15,000 GPM Vortex Air Separator (Rolairtrol RL-22F).....	89,550.18	3,224.44
For 300 PSIG, Add	12,699.70	
23 21 16 00-0328 EA 24" Flanged, 17,000 GPM Vortex Air Separator (Rolairtrol RL-24F).....	105,971.87	3,582.71
For 300 PSIG, Add	15,081.53	
<b>23 21 16 00-0329 Grooved, With Strainer, Vortex Air Separators (23 21 16)</b>		
23 21 16 00-0330 EA 3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G).....	3,405.72	372.35
23 21 16 00-0331 EA 4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G).....	4,824.36	496.15
23 21 16 00-0332 EA 5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G).....	6,096.54	590.06
23 21 16 00-0333 EA 6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G).....	7,244.38	668.77
23 21 16 00-0334 EA 8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G).....	10,457.32	802.52
23 21 16 00-0335 EA 10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G).....	16,896.46	911.97
23 21 16 00-0336 EA 12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G).....	25,721.85	1,180.25
<b>23 21 16 00-0337 Grooved Vortex Air Separators (23 21 16)</b>		
Note: Without system strainer.		
23 21 16 00-0338 EA 3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G).....	2,714.30	372.35
23 21 16 00-0339 EA 4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G).....	4,124.51	496.15
23 21 16 00-0340 EA 5" Grooved, 530 GPM Vortex Air Separator (Rolairtrol RL-5G).....	5,362.97	590.06
23 21 16 00-0341 EA 6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G).....	6,249.41	668.77
23 21 16 00-0342 EA 8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G).....	8,349.34	802.52
23 21 16 00-0343 EA 10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G).....	12,284.20	911.97
23 21 16 00-0344 EA 12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G).....	20,402.87	1,180.25
<b>23 21 16 00-0345 Removable Head, Air Eliminator And Dirt Separator (23 21 16)</b>		
Note: Spirovent VDN.		
23 21 16 00-0346 EA 2", 45 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	3,741.11	326.27
23 21 16 00-0347 EA 2-1/2", 70 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	4,060.58	373.75
23 21 16 00-0348 EA 3", 95 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	5,394.45	439.62
23 21 16 00-0349 EA 4", 170 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	6,243.47	673.99
23 21 16 00-0350 EA 5", 260 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	9,051.90	833.29
23 21 16 00-0351 EA 6", 375 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	11,591.48	943.57
23 21 16 00-0352 EA 8", 625 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	17,946.64	212.92
23 21 16 00-0353 EA 10", 950 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	26,324.11	1,286.70
23 21 16 00-0354 EA 12", 1,400 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	34,024.71	1,665.04
<b>23 21 16 00-0355 Swivel Joints (23 21 16)</b>		
<b>23 21 16 00-0356 Carbon Steel, Straight Through Swivel Joint (Dixon Style 20) (23 21 16 00-0355)</b>		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0357 EA 1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	379.12	40.28
23 21 16 00-0358 EA 1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	545.22	58.97
23 21 16 00-0359 EA 2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	758.29	68.93
23 21 16 00-0360 EA 3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,137.59	117.95
23 21 16 00-0361 EA 4" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,435.09	134.04
For Stainless Steel, Add	1,750.55	
23 21 16 00-0362 EA 2" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,070.91	204.19
For Stainless Steel, Add	1,223.42	
23 21 16 00-0363 EA 3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,442.69	162.90
23 21 16 00-0364 EA 4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,867.88	436.55
23 21 16 00-0365 EA 6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	3,390.79	551.44
<b>23 21 16 00-0366 Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30) (23 21 16 00-0355)</b>		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0367 EA 1" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	477.30	40.28
For Stainless Steel, Add	595.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0368 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	591.59	58.97
For Stainless Steel, Add	710.64	
23 21 16 00-0369 EA 2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	792.69	68.93
For Stainless Steel, Add	980.16	
23 21 16 00-0370 EA 3" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,276.71	117.95
For Stainless Steel, Add	1,561.58	
23 21 16 00-0371 EA 4" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,662.31	134.04
For Stainless Steel, Add	2,091.38	
23 21 16 00-0372 EA 2" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,102.35	204.19
For Stainless Steel, Add	1,270.58	
23 21 16 00-0373 EA 3" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	1,622.78	162.90
For Stainless Steel, Add	1,945.31	
23 21 16 00-0374 EA 4" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	2,075.78	436.55
For Stainless Steel, Add	2,293.08	
23 21 16 00-0375 EA 6" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30).....	3,534.36	551.44
For Stainless Steel, Add	4,263.89	
<b>23 21 16 00-0376 Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40) (23 21</b>		
<small>16 00-0355)</small>		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0377 EA 1" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	558.32	40.28
For Stainless Steel, Add	716.55	
23 21 16 00-0378 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	653.42	58.97
For Stainless Steel, Add	803.39	
23 21 16 00-0379 EA 2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	948.10	68.93
For Stainless Steel, Add	1,213.28	
23 21 16 00-0380 EA 3" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,463.74	117.95
For Stainless Steel, Add	1,842.12	
23 21 16 00-0381 EA 4" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,724.14	134.04
For Stainless Steel, Add	2,184.12	
23 21 16 00-0382 EA 2" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,256.93	204.19
For Stainless Steel, Add	1,502.45	
23 21 16 00-0383 EA 3" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	1,814.44	162.90
For Stainless Steel, Add	2,232.80	
23 21 16 00-0384 EA 4" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	2,273.63	436.55
For Stainless Steel, Add	2,589.86	
23 21 16 00-0385 EA 6" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40).....	3,959.43	551.44
For Stainless Steel, Add	4,901.49	
<b>23 21 16 00-0386 Basket Strainers (23 21 16)</b>		
<b>23 21 16 00-0387 Bronze Body Basket Strainers (23 21 16 00-0386)</b>		
<b>23 21 16 00-0388 Screwed Ends, Bronze Body Basket Strainers (23 21 16 00-0387)</b>		
23 21 16 00-0389 EA 1/2" Screwed Ends, Bronze Body Basket Strainer.....	326.89	30.64
For Work In Restricted Working Space, Add	18.23	
23 21 16 00-0390 EA 3/4" Screwed Ends, Bronze Body Basket Strainer.....	386.23	36.00
For Work In Restricted Working Space, Add	21.43	
23 21 16 00-0391 EA 1" Screwed Ends, Bronze Body Basket Strainer.....	448.61	42.89
For Work In Restricted Working Space, Add	25.53	
23 21 16 00-0392 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer.....	555.79	47.48
For Work In Restricted Working Space, Add	28.46	
23 21 16 00-0393 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer.....	654.99	53.61
For Work In Restricted Working Space, Add	32.14	
23 21 16 00-0394 EA 2" Screwed Ends, Bronze Body Basket Strainer.....	966.22	61.28
For Work In Restricted Working Space, Add	36.80	
23 21 16 00-0395 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer.....	1,364.41	81.95
For Work In Restricted Working Space, Add	49.29	
23 21 16 00-0396 EA 3" Screwed Ends, Bronze Body Basket Strainer.....	1,904.85	87.31
For Work In Restricted Working Space, Add	52.28	
<b>23 21 16 00-0397 Flanged, Bronze Body Basket Strainers (23 21 16 00-0387)</b>		
23 21 16 00-0398 EA 2" Flanged, Bronze Body Basket Strainer.....	1,533.66	204.19
For Work In Restricted Working Space, Add	76.59	
23 21 16 00-0399 EA 2-1/2" Flanged, Bronze Body Basket Strainer.....	2,278.67	222.11
For Work In Restricted Working Space, Add	83.55	
23 21 16 00-0400 EA 3" Flanged, Bronze Body Basket Strainer.....	2,586.96	260.40
For Work In Restricted Working Space, Add	97.77	
23 21 16 00-0401 EA 4" Flanged, Bronze Body Basket Strainer.....	4,373.45	436.55
For Work In Restricted Working Space, Add	164.12	
23 21 16 00-0402 EA 6" Flanged, Bronze Body Basket Strainer.....	8,178.70	488.55
For Work In Restricted Working Space, Add	183.86	
23 21 16 00-0403 EA 8" Flanged, Bronze Body Basket Strainer.....	14,820.09	624.26
For Work In Restricted Working Space, Add	232.64	
<b>23 21 16 00-0404 Iron Body Basket Strainers (23 21 16 00-0386)</b>		
<b>23 21 16 00-0405 Screwed Ends, Iron Body Basket Strainers (23 21 16 00-0404)</b>		
23 21 16 00-0406 EA 1/2" Screwed Ends, Iron Body Basket Strainer.....	386.05	30.64
For Work In Restricted Working Space, Add	18.23	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 21 Hydronic Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0407 EA 3/4" Screwed Ends, Iron Body Basket Strainer.....	435.48	36.00
<i>For Work In Restricted Working Space, Add</i>	21.43	
23 21 16 00-0408 EA 1" Screwed Ends, Iron Body Basket Strainer.....	514.81	42.89
<i>For Work In Restricted Working Space, Add</i>	25.53	
23 21 16 00-0409 EA 1-1/4" Screwed Ends, Iron Body Basket Strainer.....	670.81	47.48
<i>For Work In Restricted Working Space, Add</i>	28.46	
23 21 16 00-0410 EA 1-1/2" Screwed Ends, Iron Body Basket Strainer.....	736.76	53.61
<i>For Work In Restricted Working Space, Add</i>	32.14	
23 21 16 00-0411 EA 2" Screwed Ends, Iron Body Basket Strainer.....	874.66	61.28
<i>For Work In Restricted Working Space, Add</i>	36.80	
23 21 16 00-0412 EA 2-1/2" Screwed Ends, Iron Body Basket Strainer.....	1,238.58	81.95
<i>For Work In Restricted Working Space, Add</i>	49.29	
23 21 16 00-0413 EA 3" Screwed Ends, Iron Body Basket Strainer.....	1,397.76	87.31
<i>For Work In Restricted Working Space, Add</i>	52.28	
<b>23 21 16 00-0414 Flanged, Iron Body Basket Strainers (23 21 16 00-0404)</b>		
23 21 16 00-0415 EA 2" Flanged, Iron Body Basket Strainer.....	1,035.37	204.19
<i>For Work In Restricted Working Space, Add</i>	76.59	
23 21 16 00-0416 EA 2-1/2" Flanged, Iron Body Basket Strainer.....	1,329.91	222.11
<i>For Work In Restricted Working Space, Add</i>	83.55	
23 21 16 00-0417 EA 3" Flanged, Iron Body Basket Strainer.....	1,445.15	260.40
<i>For Work In Restricted Working Space, Add</i>	97.77	
23 21 16 00-0418 EA 4" Flanged, Iron Body Basket Strainer.....	2,231.57	436.55
<i>For Work In Restricted Working Space, Add</i>	164.12	
23 21 16 00-0419 EA 6" Flanged, Iron Body Basket Strainer.....	3,891.45	488.55
<i>For Work In Restricted Working Space, Add</i>	183.86	
23 21 16 00-0420 EA 8" Flanged, Iron Body Basket Strainer.....	6,823.88	624.26
<i>For Work In Restricted Working Space, Add</i>	232.64	
23 21 16 00-0421 EA 10" Flanged, Iron Body Basket Strainer.....	10,050.83	759.97
<i>For Work In Restricted Working Space, Add</i>	284.99	
23 21 16 00-0422 EA 12" Flanged, Iron Body Basket Strainer.....	12,712.69	958.11
<i>For Work In Restricted Working Space, Add</i>	574.80	
23 21 16 00-0423 EA 14" Flanged, Iron Body Basket Strainer.....	14,980.12	1,085.67
<i>For Work In Restricted Working Space, Add</i>	407.12	
23 21 16 00-0424 EA 16" Flanged, Iron Body Basket Strainer.....	15,737.64	1,194.23
<i>For Work In Restricted Working Space, Add</i>	447.84	
<b>23 21 16 00-0425 Cast Steel Body Basket Strainers (23 21 16 00-0386)</b>		
<b>23 21 16 00-0426 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0425)</b>		
23 21 16 00-0427 EA 1" Screwed Ends, Cast Steel Body Basket Strainer.....	1,870.34	42.89
<i>For Work In Restricted Working Space, Add</i>	25.53	
23 21 16 00-0428 EA 1-1/4" Screwed Ends, Cast Steel Body Basket Strainer.....	2,477.72	47.48
<i>For Work In Restricted Working Space, Add</i>	28.46	
23 21 16 00-0429 EA 1-1/2" Screwed Ends, Cast Steel Body Basket Strainer.....	2,792.51	53.61
<i>For Work In Restricted Working Space, Add</i>	32.13	
23 21 16 00-0430 EA 2" Screwed Ends, Cast Steel Body Basket Strainer.....	3,942.77	61.28
<i>For Work In Restricted Working Space, Add</i>	36.80	
23 21 16 00-0431 EA 2-1/2" Screwed Ends, Cast Steel Body Basket Strainer.....	5,535.13	81.95
<i>For Work In Restricted Working Space, Add</i>	49.28	
23 21 16 00-0432 EA 3" Screwed Ends, Cast Steel Body Basket Strainer.....	7,209.36	87.31
<i>For Work In Restricted Working Space, Add</i>	52.29	
<b>23 21 16 00-0433 Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0425)</b>		
23 21 16 00-0434 EA 2" Flanged, Cast Steel Body Basket Strainer.....	5,815.26	204.19
<i>For Work In Restricted Working Space, Add</i>	76.59	
23 21 16 00-0435 EA 2-1/2" Flanged, Cast Steel Body Basket Strainer.....	8,410.43	222.11
<i>For Work In Restricted Working Space, Add</i>	83.55	
23 21 16 00-0436 EA 3" Flanged, Cast Steel Body Basket Strainer.....	9,214.29	260.40
<i>For Work In Restricted Working Space, Add</i>	97.77	
23 21 16 00-0437 EA 4" Flanged, Cast Steel Body Basket Strainer.....	13,028.61	436.55
<i>For Work In Restricted Working Space, Add</i>	164.12	
23 21 16 00-0438 EA 6" Flanged, Cast Steel Body Basket Strainer.....	23,117.49	488.55
<i>For Work In Restricted Working Space, Add</i>	183.86	
23 21 16 00-0439 EA 8" Flanged, Cast Steel Body Basket Strainer.....	37,652.78	624.26
<i>For Work In Restricted Working Space, Add</i>	232.64	
<b>23 21 16 00-0440 Stainless Steel Body Basket Strainers (23 21 16 00-0386)</b>		
<b>23 21 16 00-0441 Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0440)</b>		
23 21 16 00-0442 EA 1" Screwed Ends, Stainless Steel Body Basket Strainer.....	584.32	42.89
<i>For Work In Restricted Working Space, Add</i>	25.53	
23 21 16 00-0443 EA 1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer.....	833.82	47.48
<i>For Work In Restricted Working Space, Add</i>	28.46	
23 21 16 00-0444 EA 1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer.....	863.33	53.61
<i>For Work In Restricted Working Space, Add</i>	32.13	
23 21 16 00-0445 EA 2" Screwed Ends, Stainless Steel Body Basket Strainer.....	1,266.91	61.28
<i>For Work In Restricted Working Space, Add</i>	36.80	
23 21 16 00-0446 EA 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer.....	1,787.98	81.95
<i>For Work In Restricted Working Space, Add</i>	49.28	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0447 EA 3" Screwed Ends, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	2,509.77 52.29	87.31
<b>23 21 16 00-0448 Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0440)</b>		
23 21 16 00-0449 EA 2" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,958.08 76.59	204.19
23 21 16 00-0450 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	2,930.31 83.55	222.11
23 21 16 00-0451 EA 3" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	3,321.23 97.77	260.40
23 21 16 00-0452 EA 4" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	5,613.40 164.12	436.55
23 21 16 00-0453 EA 6" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	8,521.31 183.86	488.55
23 21 16 00-0454 EA 8" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	14,714.09 232.64	624.26
<b>23 21 16 00-0455 Air Vents (23 21 16)</b>		
<b>23 21 16 00-0456 Screwed Ends, Cast Iron, Automatic Air Vents (23 21 16 00-0455)</b> Note: With guided free floating lever.		
23 21 16 00-0457 EA 1/2" NPT, Cast Iron, Automatic Air Vent .....	402.75	44.42
23 21 16 00-0458 EA 3/4" NPT, Cast Iron, Automatic Air Vent .....	493.49	58.97
23 21 16 00-0459 EA 1" NPT, Cast Iron, Automatic Air Vent .....	1,116.90	61.28
23 21 16 00-0460 EA 1-1/4" NPT, Cast Iron, Automatic Air Vent .....	1,656.57	94.66
23 21 16 00-0461 EA 1-1/2" NPT, Cast Iron, Automatic Air Vent .....	2,755.96	101.86
23 21 16 00-0462 EA 2" NPT, Cast Iron, Automatic Air Vent .....	3,166.41	134.34
<b>23 21 16 00-0463 Forged Steel, Stainless Steel Internals, Automatic Air Vents (23 21 16 00-0455)</b> Note: With guided free floating lever.		
23 21 16 00-0464 EA 1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	2,498.45	51.31
23 21 16 00-0465 EA 3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	3,130.61	58.97
23 21 16 00-0466 EA 1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	3,734.39	61.28
23 21 16 00-0467 EA 1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	6,126.49	94.97
23 21 16 00-0468 EA 1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	7,074.95	101.86
23 21 16 00-0469 EA 2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	10,399.23	134.04
<b>23 21 16 00-0470 Automatic Air Vent (23 21 16 00-0455)</b>		
23 21 16 00-0471 EA 3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	275.20	58.97
23 21 16 00-0472 EA 1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	299.88	61.28
23 21 16 00-0473 EA 1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	428.12	94.66
23 21 16 00-0474 EA 1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	522.53	101.86
23 21 16 00-0475 EA 2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	657.95	109.77
<b>23 21 16 00-0476 Manual Air Vent (23 21 16 00-0455)</b>		
23 21 16 00-0477 EA Manual Air Vent .....	101.39	55.29
<b>23 21 16 00-0478 Air Release Valves (23 21 16 00-0455)</b>		
<b>23 21 16 00-0479 Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) (23 21 16 00-0478)</b> Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0480 EA 1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) .....	208.95	22.98
23 21 16 00-0481 EA 3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) .....	215.08	26.04
23 21 16 00-0482 EA 1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) .....	227.33	32.17
<b>23 21 16 00-0483 Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) (23 21 16 00-0478)</b> Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0484 EA 1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A) .....	826.03	32.17
23 21 16 00-0485 EA 2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) .....	999.26	55.91
23 21 16 00-0486 EA 3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) .....	1,314.30	130.36
<b>23 21 16 00-0487 Cast Iron, Air/Vacuum Valves (23 21 16 00-0478)</b> Note: Up to 150 psi. Stainless steel float.		
23 21 16 00-0488 EA 1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141) .....	403.00	22.98
23 21 16 00-0489 EA 1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142) .....	499.00	32.17
23 21 16 00-0490 EA 2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144) .....	862.14	55.91
23 21 16 00-0491 EA 3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146) .....	1,252.20	130.36
23 21 16 00-0492 EA 4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152) .....	1,963.04	218.83
23 21 16 00-0493 EA 6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153) .....	2,972.00	276.71

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 21 16 00-0494	Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice <small>(23 21 16 00-0478)</small> Note: Up to 150 psi. Stainless Steel float.		
23 21 16 00-0495 EA	1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C)	716.33	32.17
23 21 16 00-0496 EA	2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C)	1,102.76	55.91
23 21 16 00-0497 EA	3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C)	2,015.46	130.36
23 21 16 00-0498 EA	4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C)	2,627.97	218.83

**23 21 23 Hydronic Pumps (23 21)**

**23 21 23 13 In-Line Centrifugal Hydronic Pumps (23 21 23)**

23 21 23 13-0001	Cast Iron Single Stage In-Line Centrifugal Pump <small>(23 21 23 13)</small> Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.		
23 21 23 13-0002 EA	3 HP, 50 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	6,479.41 420.24 945.54	409.02
23 21 23 13-0003 EA	5 HP, 75 GPM At 100' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	7,115.94 450.51 1,013.64	495.05
23 21 23 13-0004 EA	7-1/2 HP, 100 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	8,238.28 518.02 1,165.55	588.13
23 21 23 13-0005 EA	10 HP, 125 GPM At 150' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	9,333.05 558.59 1,256.83	784.18
23 21 23 13-0006 EA	15 HP, 150 GPM At 200' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	10,662.70 647.87 1,457.70	854.70
23 21 23 13-0007 EA	30 HP, 200 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	15,654.95 1,026.73 2,310.15	940.73
23 21 23 13-0008 EA	40 HP, 250 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	18,455.32 1,194.35 2,687.28	1,174.86
23 21 23 13-0009 EA	50 HP, 300 GPM At 300' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	25,427.46 1,711.82 3,851.60	1,342.70
23 21 23 13-0010 EA	75 HP, 400 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	32,088.22 2,229.29 5,015.91	1,407.30
23 21 23 13-0011 EA	100 HP, 600 GPM At 400' Head, Single Stage Cast Iron In-Line Circulating Pump <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	35,267.78 2,387.16 5,371.10	1,808.99

**23 21 23 13-0012 Cast Iron, Single Stage, Vertical In-Line, Close Coupled, Pump (23 21 23 13)**

Note: For general service, 125 LB flanged, 1,800 RPM TEFC motor.

23 21 23 13-0013 EA	1/2 HP, 1-1/2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	2,219.56	234.83
23 21 23 13-0014 EA	3/4 HP, 2" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	3,786.55	268.40
23 21 23 13-0015 EA	1 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,123.67	300.55
23 21 23 13-0016 EA	1-1/2 HP, 3" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	4,346.45	326.79
23 21 23 13-0017 EA	2 HP, 4" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,617.67	357.82
23 21 23 13-0018 EA	3 HP, 5" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	5,802.89	395.48
23 21 23 13-0019 EA	5 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	6,650.57	469.66
23 21 23 13-0020 EA	7-1/2 HP, 6" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	7,769.32	578.12
23 21 23 13-0021 EA	10 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	9,884.96	626.21
23 21 23 13-0022 EA	15 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	11,486.00	663.03
23 21 23 13-0023 EA	20 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	14,615.09	704.49
23 21 23 13-0024 EA	25 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	15,406.73	728.05
23 21 23 13-0025 EA	30 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	16,198.38	751.46
23 21 23 13-0026 EA	40 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	19,147.93	805.20
23 21 23 13-0027 EA	50 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	20,485.13	834.21
23 21 23 13-0028 EA	60 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	22,848.40	1,204.91
23 21 23 13-0029 EA	75 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	27,716.63	2,409.83
23 21 23 13-0030 EA	100 HP, 8" Suction And Discharge, Single Stage Cast Iron Vertical In-Line Pump	31,952.36	2,891.79

**23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps (23 21 23)**

See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

23 21 23 16-0001	Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small> Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.		
23 21 23 16-0002 EA	5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T)	7,575.19	447.09
23 21 23 16-0003 EA	7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T)	8,489.07	447.66
23 21 23 16-0004 EA	10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T)	11,183.93	588.13
23 21 23 16-0005 EA	15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T)	12,275.28	723.53
23 21 23 16-0006 EA	15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T)	13,718.91	723.53
23 21 23 16-0007 EA	20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T)	13,364.45	784.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0008 EA 20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T)	14,185.22	784.18
23 21 23 16-0009 EA 25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T)	15,495.54	822.26
23 21 23 16-0010 EA 30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T)	17,275.35	1,045.10
23 21 23 16-0011 EA 40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T)	18,299.73	1,174.86
23 21 23 16-0012 EA 60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T)	27,583.34	2,533.30
23 21 23 16-0013 EA 75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T)	39,975.62	3,039.42
23 21 23 16-0014 EA 100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS)	45,344.21	3,799.28

**23 21 23 16-0015 Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump** (23 21 23 16)

Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

23 21 23 16-0016 EA 1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	5,881.73	328.62
For 300 LB Flanges, Add	1,322.28	
23 21 23 16-0017 EA 2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	7,369.93	352.60
For 300 LB Flanges, Add	1,710.26	
23 21 23 16-0018 EA 3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	9,218.26	376.57
For 300 LB Flanges, Add	2,147.86	
23 21 23 16-0019 EA 5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	10,793.03	447.09
For 300 LB Flanges, Add	2,496.77	
23 21 23 16-0020 EA 7-1/2 HP, 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	11,342.84	447.66
For 300 LB Flanges, Add	2,624.15	
23 21 23 16-0021 EA 10 HP, 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	11,949.21	588.13
For 300 LB Flanges, Add	2,722.85	
23 21 23 16-0022 EA 10 HP, 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	12,203.03	588.13
For 300 LB Flanges, Add	2,786.31	
23 21 23 16-0023 EA 10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	12,765.26	588.13
For 300 LB Flanges, Add	2,926.87	
23 21 23 16-0024 EA 15 HP, 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	14,858.90	723.53
For 300 LB Flanges, Add	3,389.25	
23 21 23 16-0025 EA 17-1/2 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	15,106.84	722.97
For 300 LB Flanges, Add	3,438.11	
23 21 23 16-0026 EA 20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	15,914.83	784.18
For 300 LB Flanges, Add	3,626.11	
23 21 23 16-0027 EA 25 HP, 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	17,450.35	822.26
For 300 LB Flanges, Add	3,981.81	
23 21 23 16-0028 EA 30 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	19,393.73	1,045.10
For 300 LB Flanges, Add	4,378.30	
23 21 23 16-0029 EA 40 HP, 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	21,990.77	1,174.86
For 300 LB Flanges, Add	4,968.80	
23 21 23 16-0030 EA 60 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	34,528.45	2,533.30
For 300 LB Flanges, Add	7,410.92	
23 21 23 16-0031 EA 75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	41,087.95	3,039.42
For 300 LB Flanges, Add	8,806.55	
23 21 23 16-0032 EA 100 HP, 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case	50,184.67	3,799.28
For 300 LB Flanges, Add	10,714.37	

**23 21 23 16-0033 Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump** (23 21 23 16)

Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

23 21 23 16-0034 EA 1-1/2 HP, 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	5,663.68	328.62
For 300 LB Flanges, Add	1,267.77	
23 21 23 16-0035 EA 2 HP, 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	5,829.03	352.60
For 300 LB Flanges, Add	1,298.57	
23 21 23 16-0036 EA 3 HP, 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	5,994.56	376.57
For 300 LB Flanges, Add	1,329.39	
23 21 23 16-0037 EA 5 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	6,487.91	385.03
For 300 LB Flanges, Add	1,448.57	
23 21 23 16-0038 EA 7-1/2 HP, 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	10,399.86	447.09
For 300 LB Flanges, Add	2,398.48	
23 21 23 16-0039 EA 10 HP, 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	12,563.61	588.13
For 300 LB Flanges, Add	2,912.24	
23 21 23 16-0040 EA 15 HP, 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	14,143.87	634.68
For 300 LB Flanges, Add	3,271.52	
23 21 23 16-0041 EA 20 HP, 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	15,061.39	705.20
For 300 LB Flanges, Add	3,439.87	
23 21 23 16-0042 EA 25 HP, 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	16,669.72	704.32
For 300 LB Flanges, Add	3,850.78	
23 21 23 16-0043 EA 40 HP, 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	18,794.82	905.17
For 300 LB Flanges, Add	4,291.58	
23 21 23 16-0044 EA 50 HP, 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	23,572.62	1,013.59
For 300 LB Flanges, Add	5,404.68	
23 21 23 16-0045 EA 75 HP, 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	30,065.30	1,265.98
For 300 LB Flanges, Add	6,905.73	
23 21 23 16-0046 EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP	37,752.00	1,519.71
For 300 LB Flanges, Add	8,705.28	
23 21 23 16-0047 EA 150 HP, 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	44,651.92	1,687.97
For 300 LB Flanges, Add	10,348.85	
23 21 23 16-0048 EA 200 HP, 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case	51,570.29	2,171.01
For 300 LB Flanges, Add	11,845.83	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 21 Hydronic Piping and Pumps**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

23 21 23 16-0049	<b>Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump</b> <small>(23 21 23 16)</small>			
	Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.			
23 21 23 16-0050	EA	40 HP, 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	34,619.24	723.53
		<i>For 300 LB Flanges, Add</i>	8,329.34	
23 21 23 16-0051	EA	50 HP, 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	37,375.41	784.18
		<i>For 300 LB Flanges, Add</i>	8,991.26	
23 21 23 16-0052	EA	75 HP, 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	49,750.22	999.32
		<i>For 300 LB Flanges, Add</i>	11,979.97	
23 21 23 16-0053	EA	100 HP, 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	58,276.85	1,373.15
		<i>For 300 LB Flanges, Add</i>	13,940.04	
23 21 23 16-0054	EA	200 HP, 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case	80,792.88	1,830.86
		<i>For 300 LB Flanges, Add</i>	19,359.32	
23 21 23 16-0055	<b>Cast Iron Close Coupling Pumps</b> <small>(23 21 23 16)</small>			
23 21 23 16-0056	<b>Foot Mounted Cast Iron Close Coupled Pumps</b> <small>(23 21 23 16-0055)</small>			
23 21 23 16-0057	EA	3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM)	6,787.61	423.12
23 21 23 16-0058	EA	3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM)	7,378.04	423.12
23 21 23 16-0059	EA	5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM)	8,197.95	446.63
23 21 23 16-0060	EA	5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM)	8,720.25	446.63
23 21 23 16-0061	EA	7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM)	10,010.57	469.66
23 21 23 16-0062	EA	10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM)	11,866.69	565.46
23 21 23 16-0063	EA	15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP)	15,566.01	696.59
23 21 23 16-0064	EA	20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP)	16,665.77	753.94
23 21 23 16-0065	EA	25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP)	19,286.25	814.25
23 21 23 16-0066	<b>Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt</b> <small>(23 21 23 16)</small>			
23 21 23 16-0067	EA	1/3 HP, Centrifugal Pump, Polypropylene Body	1,721.82	218.59
23 21 23 16-0068	EA	1/2 HP, Centrifugal Pump, Polypropylene Body	1,836.52	231.76
23 21 23 16-0069	EA	3/4 HP, Centrifugal Pump, Polypropylene Body	2,136.31	246.77
23 21 23 23	<b>Vertical-Turbine Hydronic Pumps</b> <small>(23 21 23)</small>			
	See CSI section 26 29 23 00-0000 for variable frequency motor controllers.			
23 21 23 23-0001	<b>Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps</b> <small>(23 21 23 23)</small>			
	Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.			
23 21 23 23-0002	EA	2 HP, 50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage	11,867.71	1,045.10
		<i>For Each Extra Column Assembly &lt;60", Add</i>	1,012.10	
		<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	412.02	
		<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	293.35	
23 21 23 23-0003	EA	3 HP, 100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage	13,546.10	1,174.86
		<i>For Each Extra Column Assembly &lt;60", Add</i>	1,146.88	
		<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	478.65	
		<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	343.19	
23 21 23 23-0004	EA	15 HP, 250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage	15,986.17	1,013.59
		<i>For Each Extra Column Assembly &lt;60", Add</i>	1,351.58	
		<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	566.76	
		<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	406.89	
23 21 23 23-0005	EA	25 HP, 500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage	18,729.23	1,169.63
		<i>For Each Extra Column Assembly &lt;60", Add</i>	1,573.49	
		<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	674.02	
		<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	486.73	
23 21 23 23-0006	EA	50 HP, 1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage	22,941.27	1,265.98
		<i>For Each Extra Column Assembly &lt;60", Add</i>	1,916.71	
		<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	836.24	
		<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	606.82	
23 21 23 23-0007	EA	100 HP, 2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage	30,059.45	1,519.71
		<i>For Each Extra Column Assembly &lt;60", Add</i>	2,502.45	
		<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	1,104.68	
		<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	804.09	
23 21 23 23-0008	EA	150 HP, 3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage	36,038.09	1,899.63
		<i>For Each Extra Column Assembly &lt;60", Add</i>	3,005.17	
		<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	1,319.40	
		<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	959.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 23-0009 EA 200 HP, 4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage.....	57,069.57	2,171.01
<i>For Each Extra Column Assembly &lt;60", Add</i>	4,705.13	
<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	2,143.22	
<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	1,572.52	
23 21 23 23-0010 EA 250 HP, 6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage.....	74,598.50	2,533.30
<i>For Each Extra Column Assembly &lt;60", Add</i>	6,130.71	
<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	2,821.11	
<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	2,075.13	
23 21 23 23-0011 EA 300 HP, 10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage.....	104,056.27	3,039.42
<i>For Each Extra Column Assembly &lt;60", Add</i>	8,519.89	
<i>For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add</i>	3,966.86	
<i>For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add</i>	2,926.30	

**23 21 29 Automatic Condensate Pump Units (23 21)**

<b>23 21 29 00-0001 Automatic Shallow Pan Condensate Pump (23 21 29)</b>		
23 21 29 00-0002 EA 1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS).....	244.32	45.83
23 21 29 00-0003 EA 1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS).....	263.41	45.83
23 21 29 00-0004 EA 1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS).....	403.16	52.89

<b>23 21 29 00-0005 Automatic Condensate Pump With Tank (23 21 29)</b>		
23 21 29 00-0006 EA 1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL).....	138.12	35.26
23 21 29 00-0007 EA 1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20).....	146.27	35.26
23 21 29 00-0008 EA 1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS).....	238.07	45.83
23 21 29 00-0009 EA 1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS).....	258.42	52.89
23 21 29 00-0010 EA 1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS).....	461.69	59.94

**23 22 Steam and Condensate Piping and Pumps (23 20)**

**23 22 16 Steam and Condensate Heating Piping Specialties (23 22)**

<b>23 22 16 00-0001 Steam Temperature Regulator, Iron Body (23 22 16)</b>		
<b>23 22 16 00-0002 Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)</b>		
Note: Up to 150 PSI.		
23 22 16 00-0003 EA 1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,358.32	22.05
23 22 16 00-0004 EA 3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,432.54	29.70
23 22 16 00-0005 EA 1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,899.68	36.60
23 22 16 00-0006 EA 1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,100.52	46.25
23 22 16 00-0007 EA 1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,158.40	53.14
23 22 16 00-0008 EA 2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,547.88	57.80
23 22 16 00-0009 EA 2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,260.46	105.88
23 22 16 00-0010 EA 3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,010.13	115.46
23 22 16 00-0011 EA 4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,515.30	270.26
23 22 16 00-0012 EA 6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	7,373.70	317.21

<b>23 22 16 00-0013 Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)</b>		
23 22 16 00-0014 EA 1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,008.15	22.05
23 22 16 00-0015 EA 3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,083.37	29.70
23 22 16 00-0016 EA 1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,179.15	36.60
23 22 16 00-0017 EA 1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,609.69	46.25
23 22 16 00-0018 EA 1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,797.75	53.14
23 22 16 00-0019 EA 2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,175.71	57.80
23 22 16 00-0020 EA 2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,876.05	105.88
23 22 16 00-0021 EA 3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,121.14	115.46
23 22 16 00-0022 EA 4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	5,817.75	270.26
23 22 16 00-0023 EA 6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	9,274.10	317.21

<b>23 22 16 00-0024 Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0001)</b>		
23 22 16 00-0025 EA 1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,732.69	22.05
23 22 16 00-0026 EA 3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,776.29	29.70
23 22 16 00-0027 EA 1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,040.54	36.60
23 22 16 00-0028 EA 1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,314.13	46.25
23 22 16 00-0029 EA 1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,437.10	53.14
23 22 16 00-0030 EA 2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,876.34	57.80
23 22 16 00-0031 EA 2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	7,173.09	105.88
23 22 16 00-0032 EA 3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	5,786.19	115.46
23 22 16 00-0033 EA 4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	7,448.02	270.26
23 22 16 00-0034 EA 6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	10,382.20	317.21

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0035			<b>Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body</b> (23 22 16 00-0001)		
23 22 16 00-0036	EA		1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	3,498.38	22.05
23 22 16 00-0037	EA		3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	3,538.16	29.70
23 22 16 00-0038	EA		1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	3,844.50	36.60
23 22 16 00-0039	EA		1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	4,010.87	46.25
23 22 16 00-0040	EA		1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	4,168.31	53.14
23 22 16 00-0041	EA		2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	4,538.65	57.80
23 22 16 00-0042	EA		2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	7,555.93	105.88
23 22 16 00-0043	EA		3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	6,076.28	115.46
23 22 16 00-0044	EA		4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	7,738.10	270.26
23 22 16 00-0045	EA		6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	10,672.28	317.21
23 22 16 00-0046			<b>High Temperature Safety Relief Valve</b> (23 22 16)		
			Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.		
23 22 16 00-0047			<b>Cast Iron Body Safety Valve, Steam Or Water</b> (23 22 16 00-0046)		
			Note: Variable set points to 500 psig pressure, 400 Degree F temperature range.		
23 22 16 00-0048			<b>Threaded</b> (23 22 16 00-0047)		
23 22 16 00-0049	EA		3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	523.17	22.97
23 22 16 00-0050	EA		1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	550.54	27.18
23 22 16 00-0051	EA		1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	611.58	34.46
23 22 16 00-0052	EA		1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	750.30	38.28
23 22 16 00-0053	EA		2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	958.75	47.08
23 22 16 00-0054	EA		2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	1,468.96	53.60
23 22 16 00-0055	EA		3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	1,594.94	61.64
23 22 16 00-0056			<b>Flanged</b> (23 22 16 00-0047)		
23 22 16 00-0057	EA		1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	3,578.28	160.79
23 22 16 00-0058	EA		2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	4,181.79	241.69
23 22 16 00-0059	EA		2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	4,606.90	222.51
23 22 16 00-0060	EA		2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	5,610.59	321.38
23 22 16 00-0061	EA		3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	5,957.87	239.67
23 22 16 00-0062	EA		3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	7,011.61	321.38
23 22 16 00-0063	EA		4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	11,709.72	456.08
23 22 16 00-0064	EA		6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	23,175.03	509.35
23 22 16 00-0065			<b>Bronze Body Safety Valve, Threaded, Steam</b> (23 22 16 00-0046)		
			Note: Variable set points to 250 psig pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 psig pressure.		
23 22 16 00-0066	EA		3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam .....	565.58	21.06
23 22 16 00-0067	EA		3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam .....	580.64	22.97
23 22 16 00-0068	EA		1" x 1" Threaded Bronze Body Safety Relief Valve, Steam .....	678.11	25.27
23 22 16 00-0069	EA		1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam .....	748.16	27.18
23 22 16 00-0070	EA		1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam .....	864.87	30.63
23 22 16 00-0071	EA		1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam .....	872.60	34.46
23 22 16 00-0072	EA		1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam .....	979.26	36.37
23 22 16 00-0073	EA		1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam .....	1,065.93	38.28
23 22 16 00-0074	EA		2" x 2" Threaded Bronze Body Safety Relief Valve, Steam .....	1,470.57	42.87
23 22 16 00-0075	EA		2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam .....	1,607.38	47.08
23 22 16 00-0076	EA		2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam .....	1,915.52	53.60
23 22 16 00-0077			<b>Bronze Body Safety Valve, Threaded, Water</b> (23 22 16 00-0046)		
			Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.		
23 22 16 00-0078	EA		3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water .....	276.34	21.06
23 22 16 00-0079	EA		3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water .....	313.97	22.97
23 22 16 00-0080	EA		1" x 1" Threaded Bronze Body Safety Relief Valve, Water .....	428.96	25.27
23 22 16 00-0081	EA		1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water .....	471.73	27.18
23 22 16 00-0082	EA		1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water .....	674.45	30.63
23 22 16 00-0083	EA		1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water .....	905.33	36.37
23 22 16 00-0084	EA		2" x 2" Threaded Bronze Body Safety Relief Valve, Water .....	1,311.33	42.87
23 22 16 00-0085			<b>Steam Traps</b> (23 22 16)		
23 22 16 00-0086			<b>Inverted Bucket Steam Traps</b> (23 22 16 00-0085)		
23 22 16 00-0087	EA		1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	348.15	45.95
			For Work In Restricted Working Space, Add	27.57	
23 22 16 00-0088	EA		3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	351.98	47.87
			For Work In Restricted Working Space, Add	28.72	
23 22 16 00-0089	EA		1" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	514.62	51.01
			For Work In Restricted Working Space, Add	30.64	
23 22 16 00-0090	EA		1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	826.74	69.62
			For Work In Restricted Working Space, Add	41.78	
23 22 16 00-0091	EA		1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	1,222.69	85.78
			For Work In Restricted Working Space, Add	51.05	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
	23 22	16 00-0092	EA	2" 250 PSI Inverted Bucket Cast Iron Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,568.57 76.59	127.65	
<b>23 22</b>	<b>16 00-0093</b>	<b>Float And Thermostatic Steam Traps (23 22 16 00-0085)</b>					
	23 22	16 00-0094	EA	3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	367.70 28.72	47.87	
	23 22	16 00-0095	EA	1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	479.19 30.64	51.05	
	23 22	16 00-0096	EA	1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	595.49 41.78	69.62	
	23 22	16 00-0097	EA	1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	864.55 51.06	85.09	
	23 22	16 00-0098	EA	2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,453.19 76.59	127.60	
	23 22	16 00-0099	EA	3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	462.39 28.72	47.87	
	23 22	16 00-0100	EA	1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	502.11 30.64	51.01	
	23 22	16 00-0101	EA	1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	657.98 41.78	69.62	
	23 22	16 00-0102	EA	1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,015.79 51.06	85.02	
	23 22	16 00-0103	EA	2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,592.78 76.59	127.64	
	23 22	16 00-0104	EA	3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	593.64 28.72	47.87	
	23 22	16 00-0105	EA	1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	660.44 30.64	51.05	
	23 22	16 00-0106	EA	1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,001.74 41.78	69.62	
	23 22	16 00-0107	EA	1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,205.18 51.06	85.02	
	23 22	16 00-0108	EA	2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,986.51 76.59	127.65	
	23 22	16 00-0109	EA	3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	601.97 28.72	47.87	
	23 22	16 00-0110	EA	1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	660.44 30.64	51.05	
	23 22	16 00-0111	EA	1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,001.74 41.78	69.62	
	23 22	16 00-0112	EA	1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,205.18 51.06	85.02	
	23 22	16 00-0113	EA	2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	1,986.51 76.59	127.64	
<b>23 22</b>	<b>16 00-0114</b>	<b>Thermostatic Steam Traps (23 22 16 00-0085)</b>					
	23 22	16 00-0115	EA	1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	188.55 27.57	45.95	
	23 22	16 00-0116	EA	3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	301.96 28.72	47.87	
	23 22	16 00-0117	EA	1" 25 PSI Maximum Pressure Thermostatic Steam Trap <i>For Work In Restricted Working Space, Add</i>	369.25 30.64	51.01	
<b>23 22</b>	<b>16 00-0118</b>	<b>Thermodynamic Steam Traps (23 22 16 00-0085)</b>					
	23 22	16 00-0119	EA	3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap	390.14	41.36	
	23 22	16 00-0120	EA	1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap	546.07	45.95	
	23 22	16 00-0121	EA	3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap	672.79	47.87	
	23 22	16 00-0122	EA	1" 600 PSI Maximum Pressure Thermodynamic Steam Trap	895.85	51.01	
<b>23 22</b>	<b>16 00-0123</b>	<b>Steam Moisture Separator (23 22 16 00-0085)</b>					
	23 22	16 00-0124	EA	1/2" Steam Moisture Separator, Threaded (Spirax Sarco S1)	803.27	76.59	
	23 22	16 00-0125	EA	3/4" Steam Moisture Separator, Threaded (Spirax Sarco S1)	861.64	103.40	
	23 22	16 00-0126	EA	1" Steam Moisture Separator, Threaded (Spirax Sarco S1)	1,033.86	116.42	
	23 22	16 00-0127	EA	1-1/2" Steam Moisture Separator, Threaded (Spirax Sarco S2)	1,612.23	133.26	
	23 22	16 00-0128	EA	2" Steam Moisture Separator, Flanged (Spirax Sarco S3)	1,993.25	204.19	
	23 22	16 00-0129	EA	2-1/2" Steam Moisture Separator, Flanged (Spirax Sarco S3)	2,973.39	222.11	
	23 22	16 00-0130	EA	3" Steam Moisture Separator, Flanged (Spirax Sarco S3)	3,420.08	260.40	
	23 22	16 00-0131	EA	4" Steam Moisture Separator, Flanged (Spirax Sarco S3)	4,702.78	436.55	
	23 22	16 00-0132	EA	6" Steam Moisture Separator, Flanged (Spirax Sarco S3)	9,070.83	551.44	
<b>23 22</b>	<b>16 00-0133</b>	<b>Steam/Condensate Meter (23 22 16)</b>					
				Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.			
	23 22	16 00-0134	EA	1" Steam/Condensate Meter	6,793.89	126.88	
				<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00		
				<i>For Contactor Used For Dial Counter, Add</i>	567.00		
				<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00		
				<i>For Direct Reading Pressure Gauge, Add</i>	79.82		
				<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 20 HVAC Piping and Pumps**

**23 22 Steam and Condensate Piping and Pumps**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0135 EA 2" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	7,666.22 1,220.00 567.00 905.00 79.82 64.52	149.09
23 22 16 00-0136 EA 2-1/2" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	8,135.52 1,220.00 567.00 905.00 79.82 64.52	185.04
23 22 16 00-0137 EA 3" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	8,634.42 1,220.00 567.00 905.00 79.82 64.52	243.19
23 22 16 00-0138 EA 4" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	9,749.81 1,220.00 567.00 905.00 79.82 64.52	377.82
23 22 16 00-0139 EA 6" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	16,672.31 1,220.00 567.00 905.00 79.82 64.52	477.92
23 22 16 00-0140 EA 8" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	17,284.85 1,220.00 567.00 905.00 79.82 64.52	603.40
23 22 16 00-0141 EA 10" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	18,098.75 1,220.00 567.00 905.00 79.82 64.52	740.15
23 22 16 00-0142 EA 12" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	18,989.08 1,220.00 567.00 905.00 79.82 64.52	898.75
23 22 16 00-0143 EA 14" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	20,230.55 1,220.00 567.00 905.00 79.82 64.52	1,057.35
23 22 16 00-0144 EA 16" Steam/Condensate Meter..... <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	20,956.75 1,220.00 567.00 905.00 79.82 64.52	1,163.09

**23 22 23 Steam Condensate Pumps (23 22)**

**23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)**

23 22 23 13-0001 Simplex Condensate Pumps And Motors (23 22 23 13)  
Note: Cast iron receiver, float switch.

**23 22 23 13-0002 20 PSI Discharge Pressure (23 22 23 13-0001)**

23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	2,188.46	717.89
23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	2,712.26	737.63
23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	2,844.89	787.00
23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	3,094.64	795.46
23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	3,445.28	865.98
23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	4,846.55	865.98
23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	4,951.58	925.22
23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	5,953.31	967.53





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,031.24	1,009.84
<b>23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)</b>		
23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	2,481.36	767.25
23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,118.69	787.00
23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,249.68	839.18
23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,724.67	906.88
23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,951.58	926.63
23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,092.21	959.06
23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,258.82	1,009.84
23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	6,048.72	1,074.72
<b>23 22 23 13-0021 40 PSI Discharge Pressure (23 22 23 13-0001)</b>		
23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	2,778.61	880.08
23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	3,399.22	950.60
23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	3,920.95	939.32
23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,069.95	959.06
23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,189.07	999.97
23 22 23 13-0027 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	6,031.24	1,009.84
23 22 23 13-0028 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	6,143.33	1,074.72
<b>23 22 23 13-0029 50 PSI Discharge Pressure (23 22 23 13-0001)</b>		
23 22 23 13-0030 EA 3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,856.99	953.43
23 22 23 13-0031 EA 9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	3,670.11	973.17
23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,143.58	980.22
23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	5,300.04	1,066.25
23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	8,074.80	1,149.47
<b>23 22 23 13-0035 Duplex Condensate Pumps And Motors (23 22 23 13)</b>		
Note: Cast iron receiver, float switch, alternator assembly.		
<b>23 22 23 13-0036 20 PSI Discharge Pressure (23 22 23 13-0035)</b>		
23 22 23 13-0037 EA 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,490.97	963.30
23 22 23 13-0038 EA 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,719.13	1,057.79
23 22 23 13-0039 EA 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,015.64	1,066.25
23 22 23 13-0040 EA 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,471.43	1,162.16
23 22 23 13-0041 EA 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,984.00	1,162.16
23 22 23 13-0042 EA 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,135.27	1,252.43
23 22 23 13-0043 EA 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,172.63	1,307.44
23 22 23 13-0044 EA 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,368.18	1,372.31
<b>23 22 23 13-0045 30 PSI Discharge Pressure (23 22 23 13-0035)</b>		
23 22 23 13-0046 EA 9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,409.63	1,038.05
23 22 23 13-0047 EA 15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,643.12	1,133.95
23 22 23 13-0048 EA 22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,126.52	1,105.75

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 22 Steam and Condensate Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0049 EA 30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure .....	6,135.27	1,252.43
23 22 23 13-0050 EA 45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure .....	6,315.99	1,298.97
23 22 23 13-0051 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure .....	7,145.58	1,372.31
23 22 23 13-0052 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure .....	7,516.27	1,471.04
<b>23 22 23 13-0053 40 PSI Discharge Pressure</b> <small>(23 22 23 13-0035)</small>		
23 22 23 13-0054 EA 9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	4,838.91	1,224.22
23 22 23 13-0055 EA 22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	5,305.00	1,279.23
23 22 23 13-0056 EA 30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	6,329.35	1,298.97
23 22 23 13-0057 EA 45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	6,526.02	1,363.85
23 22 23 13-0058 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	7,369.30	1,372.31
23 22 23 13-0059 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	7,542.99	1,471.04
<b>23 22 23 13-0060 50 PSI Discharge Pressure</b> <small>(23 22 23 13-0035)</small>		
23 22 23 13-0061 EA 9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure .....	5,023.67	1,224.22
23 22 23 13-0062 EA 22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure .....	5,434.90	1,345.51
23 22 23 13-0063 EA 30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure .....	6,700.81	1,461.16
23 22 23 13-0064 EA 60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure .....	11,130.26	1,582.45
<b>23 23 Refrigerant Piping</b> <small>(23 20)</small>		
<b>23 23 13 Refrigerant Piping Valves</b> <small>(23 23)</small>		
23 23 13 00-0001 Ball Valves <small>(23 23 13)</small>		
23 23 13 00-0002 Refrigeration Ball Valves, Sweat, 1400 Series <small>(23 23 13 00-0001)</small>		
23 23 13 00-0003 EA 3/8" Refrigeration Ball Valve, Sweated .....	58.28	15.31
23 23 13 00-0004 EA 1/2" Refrigeration Ball Valve, Sweated .....	60.75	15.31
23 23 13 00-0005 EA 5/8" Refrigeration Ball Valve, Sweated .....	77.35	15.31
23 23 13 00-0006 EA 7/8" Refrigeration Ball Valve, Sweated .....	103.67	16.85
23 23 13 00-0007 EA 1-1/8" Refrigeration Ball Valve, Sweated .....	142.10	19.14
23 23 13 00-0008 EA 1-5/8" Refrigeration Ball Valve, Sweated .....	228.13	23.58
23 23 13 00-0009 Shut-Off Valves <small>(23 23 13)</small>		
23 23 13 00-0010 Packless <small>(23 23 13 00-0009)</small>		
23 23 13 00-0011 EA 1/2" Refrigeration Valve, Packless .....	70.15	15.93
23 23 13 00-0012 EA 5/8" Refrigeration Valve, Packless .....	86.44	17.47
23 23 13 00-0013 EA 7/8" Refrigeration Valve, Packless .....	171.44	23.89
23 23 13 00-0014 Packed <small>(23 23 13 00-0009)</small>		
23 23 13 00-0015 EA 1-1/8" Refrigeration Valve, Packed .....	300.79	34.77
23 23 13 00-0016 EA 1 3/8" Refrigeration Valve, Packed .....	400.17	42.58
23 23 13 00-0017 EA 1-5/8" Refrigeration Valve, Packed .....	485.52	47.94
23 23 13 00-0018 EA 2-1/8" Refrigeration Valve, Packed .....	686.98	54.68
23 23 13 00-0019 EA 2-5/8" Refrigeration Valve, Packed .....	1,170.60	153.18
23 23 13 00-0020 EA 3-1/8" Refrigeration Valve, Packed .....	1,531.39	191.47
23 23 13 00-0021 EA 4-1/8" Refrigeration Valve, Packed .....	2,169.29	255.35
23 23 13 00-0022 Check Valves <small>(23 23 13)</small>		
23 23 13 00-0023 EA 5/8" Check Valve, Refrigeration .....	90.89	15.31
23 23 13 00-0024 EA 7/8" Check Valve, Refrigeration .....	264.91	16.85
23 23 13 00-0025 EA 1-1/8" Check Valve, Refrigeration .....	308.07	19.14
23 23 13 00-0026 EA 1 3/8" Check Valve, Refrigeration .....	413.30	20.37
23 23 13 00-0027 EA 1-5/8" Check Valve, Refrigeration .....	540.03	23.59
23 23 13 00-0028 EA 2-1/8" Check Valve, Refrigeration .....	792.01	27.88
23 23 13 00-0029 EA 2-5/8" Check Valve, Refrigeration .....	1,109.58	40.89
23 23 13 00-0030 EA 3-1/8" Check Valve, Refrigeration .....	1,459.60	53.61
23 23 13 00-0031 Solenoid Valves <small>(23 23 13)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 23 13 00-0032 Solenoid Valve, 24 Volt Coil</b> <small>(23 23 13 00-0031)</small>		
23 23 13 00-0033 EA 1/2" Solenoid Valve, Refrigeration .....	231.32	15.31
23 23 13 00-0034 EA 5/8" Solenoid Valve, Refrigeration .....	236.61	15.31
23 23 13 00-0035 EA 3/4" Solenoid Valve, Refrigeration .....	293.81	16.85
23 23 13 00-0036 EA 7/8" Solenoid Valve, Refrigeration .....	293.81	16.85
23 23 13 00-0037 EA 1-1/8" Solenoid Valve, Refrigeration .....	408.44	19.14
23 23 13 00-0038 EA 1 3/8" Solenoid Valve, Refrigeration .....	649.36	20.37
23 23 13 00-0039 EA 1-5/8" Solenoid Valve, Refrigeration .....	1,179.25	23.59
23 23 13 00-0040 EA 2-1/8" Solenoid Valve, Refrigeration .....	1,200.67	27.88
<b>23 23 16 Refrigerant Piping Specialties</b> <small>(23 23)</small>		
<b>23 23 16 00-0001 Soft Refrigeration Copper Tubing</b> <small>(23 23 16)</small>		
<small>Note: Based on outside diameter. Nitrogenized. Lengths up to 100' See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).</small>		
23 23 16 00-0002 LF 1/8" Outside Diameter Soft Refrigeration Copper Tubing .....	6.34	3.65
23 23 16 00-0003 LF 3/16" Outside Diameter Soft Refrigeration Copper Tubing .....	6.64	3.74
23 23 16 00-0004 LF 1/4" Outside Diameter Soft Refrigeration Copper Tubing .....	6.94	3.84
23 23 16 00-0005 LF 5/16" Outside Diameter Soft Refrigeration Copper Tubing .....	7.41	3.90
23 23 16 00-0006 LF 3/8" Outside Diameter Soft Refrigeration Copper Tubing .....	7.63	3.97
23 23 16 00-0007 LF 1/2" Outside Diameter Soft Refrigeration Copper Tubing .....	8.56	4.16
23 23 16 00-0008 LF 5/8" Outside Diameter Soft Refrigeration Copper Tubing .....	9.38	4.21
23 23 16 00-0009 LF 3/4" Outside Diameter Soft Refrigeration Copper Tubing .....	10.24	4.36
23 23 16 00-0010 LF 7/8" Outside Diameter Soft Refrigeration Copper Tubing .....	13.16	5.12
23 23 16 00-0011 LF 1-1/8" Outside Diameter Soft Refrigeration Copper Tubing .....	16.68	5.86
23 23 16 00-0012 LF 1-3/8" Outside Diameter Soft Refrigeration Copper Tubing .....	23.97	6.94
23 23 16 00-0013 LF 1-5/8" Outside Diameter Soft Refrigeration Copper Tubing .....	28.84	7.76
<b>23 23 16 00-0014 Type L Drawn, ACR Copper Tubing</b> <small>(23 23 16)</small>		
<small>Note: Nitrogenized. Lengths up to 20'. See CSI section 22 07 19 00-0372 for flexible elastomeric insulation (insulation on suction line only).</small>		
23 23 16 00-0015 LF 3/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	8.44	4.29
<small>For Medical Applications "Oxygen Clean", Add</small>		
	0.75	
23 23 16 00-0016 LF 1/2" Outside Diameter Type L Drawn, ACR Copper Tubing .....	9.43	4.29
<small>For Medical Applications "Oxygen Clean", Add</small>		
	0.80	
23 23 16 00-0017 LF 5/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	10.06	4.29
<small>For Medical Applications "Oxygen Clean", Add</small>		
	0.83	
23 23 16 00-0018 LF 3/4" Outside Diameter Type L Drawn, ACR Copper Tubing .....	14.54	6.44
<small>For Medical Applications "Oxygen Clean", Add</small>		
	1.21	
23 23 16 00-0019 LF 7/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	15.88	6.90
<small>For Medical Applications "Oxygen Clean", Add</small>		
	1.31	
23 23 16 00-0020 LF 1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	18.37	6.90
<small>For Medical Applications "Oxygen Clean", Add</small>		
	1.44	
23 23 16 00-0021 LF 1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	22.82	7.96
<small>For Medical Applications "Oxygen Clean", Add</small>		
	1.74	
23 23 16 00-0022 LF 1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	27.57	9.19
<small>For Medical Applications "Oxygen Clean", Add</small>		
	2.07	
23 23 16 00-0023 LF 2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	38.88	11.49
<small>For Medical Applications "Oxygen Clean", Add</small>		
	2.80	
23 23 16 00-0024 LF 2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	58.33	17.30
<small>For Medical Applications "Oxygen Clean", Add</small>		
	4.22	
23 23 16 00-0025 LF 3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	75.37	21.45
<small>For Medical Applications "Oxygen Clean", Add</small>		
	5.38	
23 23 16 00-0026 LF 3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	94.70	25.42
<small>For Medical Applications "Oxygen Clean", Add</small>		
	6.65	
23 23 16 00-0027 LF 4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	116.98	30.64
<small>For Medical Applications "Oxygen Clean", Add</small>		
	8.15	
<b>23 23 16 00-0028 Refrigeration Fittings</b> <small>(23 23 16)</small>		
<b>23 23 16 00-0029 Brass Flare Fittings</b> <small>(23 23 16 00-0028)</small>		
<b>23 23 16 00-0030 Brass Flare Unions</b> <small>(23 23 16 00-0029)</small>		
23 23 16 00-0031 EA 3/8" Brass Flare Union .....	33.19	16.54
23 23 16 00-0032 EA 1/2" Brass Flare Union .....	33.19	16.54
23 23 16 00-0033 EA 5/8" Brass Flare Union .....	35.37	16.54
<b>23 23 16 00-0034 90 Degree Elbow Brass Flare Unions</b> <small>(23 23 16 00-0029)</small>		
23 23 16 00-0035 EA 3/8" 90 Degree Brass Flare Elbow Union .....	34.51	16.54
23 23 16 00-0036 EA 1/2" 90 Degree Brass Flare Elbow Union .....	34.51	16.54
23 23 16 00-0037 EA 5/8" 90 Degree Brass Flare Elbow Union .....	41.83	16.54
<b>23 23 16 00-0038 Brass Flare Tees</b> <small>(23 23 16 00-0029)</small>		
23 23 16 00-0039 EA 3/8" Brass Flare Tee .....	53.84	27.56
23 23 16 00-0040 EA 1/2" Brass Flare Tee .....	57.10	27.56
23 23 16 00-0041 EA 5/8" Brass Flare Tee .....	74.85	27.56

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 23 16 00-0042 Male Connector, Half Brass Flare Unions (23 23 16 00-0029)</b>		
23 23 16 00-0043 EA 3/8" Brass Flare Male Connector, Half Union .....	27.19	16.54
23 23 16 00-0044 EA 1/2" Brass Flare Male Connector, Half Union .....	29.37	16.54
23 23 16 00-0045 EA 5/8" Brass Flare Male Connector, Half Union .....	32.48	16.54
<b>23 23 16 00-0046 Female Connector, Half Brass Flare Unions (23 23 16 00-0029)</b>		
23 23 16 00-0047 EA 3/8" Brass Flare Female Connector, Half Union .....	30.00	16.54
23 23 16 00-0048 EA 1/2" Brass Flare Female Connector, Half Union .....	32.96	16.54
23 23 16 00-0049 EA 5/8" Brass Flare Female Connector, Half Union .....	32.96	16.54
<b>23 23 16 00-0050 Long Forged Nuts (23 23 16 00-0029)</b>		
23 23 16 00-0051 EA 3/8" Brass Long Forged Nut .....	28.52	16.54
23 23 16 00-0052 EA 1/2" Brass Long Forged Nut .....	29.37	16.54
23 23 16 00-0053 EA 5/8" Brass Long Forged Nut .....	38.86	16.54
<b>23 23 16 00-0054 Short Forged Nuts (23 23 16 00-0029)</b>		
23 23 16 00-0055 EA 3/8" Brass Short Forged Nut .....	27.28	16.54
23 23 16 00-0056 EA 1/2" Brass Short Forged Nut .....	29.25	16.54
23 23 16 00-0057 EA 5/8" Brass Short Forged Nut .....	29.66	16.54
<b>23 23 16 00-0058 ACR Wrought Copper Fittings (23 23 16 00-0028)</b>		
Note: Soldered.		
<b>23 23 16 00-0059 ACR Wrought Copper Coupling (23 23 16 00-0058)</b>		
Note: C x C		
23 23 16 00-0060 EA 1/4" ACR Wrought Copper Coupling .....	26.68	16.54
23 23 16 00-0061 EA 3/8" ACR Wrought Copper Coupling .....	26.33	16.54
23 23 16 00-0062 EA 1/2" ACR Wrought Copper Coupling .....	26.85	16.54
23 23 16 00-0063 EA 5/8" ACR Wrought Copper Coupling .....	27.77	17.30
23 23 16 00-0064 EA 3/4" ACR Wrought Copper Coupling .....	39.00	22.83
23 23 16 00-0065 EA 7/8" ACR Wrought Copper Coupling .....	38.66	23.44
23 23 16 00-0066 EA 1-1/8" ACR Wrought Copper Coupling .....	50.71	29.10
23 23 16 00-0067 EA 1-3/8" ACR Wrought Copper Coupling .....	72.24	39.83
23 23 16 00-0068 EA 1-5/8" ACR Wrought Copper Coupling .....	86.65	46.72
23 23 16 00-0069 EA 2-1/8" ACR Wrought Copper Coupling .....	112.51	56.68
23 23 16 00-0070 EA 2-5/8" ACR Wrought Copper Coupling .....	191.20	86.08
23 23 16 00-0071 EA 3-1/8" ACR Wrought Copper Coupling .....	254.48	113.20
23 23 16 00-0072 EA 4-1/8" ACR Wrought Copper Coupling .....	394.26	134.49
<b>23 23 16 00-0073 ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0058)</b>		
Note: C x C		
23 23 16 00-0074 EA 1/4" ACR Wrought Copper Short Radius 90 Degree Elbow .....	31.37	16.54
23 23 16 00-0075 EA 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	31.72	16.54
23 23 16 00-0076 EA 1/2" ACR Wrought Copper Short Radius 90 Degree Elbow .....	31.37	16.54
23 23 16 00-0077 EA 5/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	33.86	17.30
23 23 16 00-0078 EA 3/4" ACR Wrought Copper Short Radius 90 Degree Elbow .....	48.57	22.83
23 23 16 00-0079 EA 7/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	49.27	23.44
23 23 16 00-0080 EA 1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	62.55	29.10
23 23 16 00-0081 EA 1 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	79.07	39.83
23 23 16 00-0082 EA 1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	100.27	46.72
23 23 16 00-0083 EA 2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	139.85	56.68
23 23 16 00-0084 EA 2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	238.97	86.08
23 23 16 00-0085 EA 3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	307.92	113.20
23 23 16 00-0086 EA 4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow .....	555.26	134.49
<b>23 23 16 00-0087 ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0058)</b>		
Note: C x C		
23 23 16 00-0088 EA 1/4" ACR Wrought Copper Long Radius 90 Degree Elbow .....	37.23	16.54
23 23 16 00-0089 EA 3/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	34.13	16.54
23 23 16 00-0090 EA 1/2" ACR Wrought Copper Long Radius 90 Degree Elbow .....	36.59	16.54
23 23 16 00-0091 EA 5/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	36.68	17.30
23 23 16 00-0092 EA 3/4" ACR Wrought Copper Long Radius 90 Degree Elbow .....	45.12	22.83
23 23 16 00-0093 EA 7/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	48.90	23.44
23 23 16 00-0094 EA 1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	65.80	29.10
23 23 16 00-0095 EA 1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	95.78	39.83
23 23 16 00-0096 EA 1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	118.51	46.72
23 23 16 00-0097 EA 2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	212.23	56.68
23 23 16 00-0098 EA 2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	330.59	86.08
23 23 16 00-0099 EA 3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	436.67	113.20
23 23 16 00-0100 EA 4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	916.61	134.49



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0101				<b>ACR Wrought Copper 45 Degree Elbow</b> (23 23 16 00-0058) Note: C x C		
23 23 16 00-0102	EA			1/4" ACR Wrought Copper 45 Degree Elbow .....	41.49	16.54
23 23 16 00-0103	EA			3/8" ACR Wrought Copper 45 Degree Elbow .....	37.23	16.54
23 23 16 00-0104	EA			1/2" ACR Wrought Copper 45 Degree Elbow .....	35.42	16.54
23 23 16 00-0105	EA			5/8" ACR Wrought Copper 45 Degree Elbow .....	30.32	17.30
23 23 16 00-0106	EA			3/4" ACR Wrought Copper 45 Degree Elbow .....	53.10	22.83
23 23 16 00-0107	EA			7/8" ACR Wrought Copper 45 Degree Elbow .....	42.63	23.44
23 23 16 00-0108	EA			1-1/8" ACR Wrought Copper 45 Degree Elbow .....	62.51	29.10
23 23 16 00-0109	EA			1-3/8" ACR Wrought Copper 45 Degree Elbow .....	85.08	39.83
23 23 16 00-0110	EA			1-5/8" ACR Wrought Copper 45 Degree Elbow .....	100.65	46.72
23 23 16 00-0111	EA			2-1/8" ACR Wrought Copper 45 Degree Elbow .....	135.88	56.68
23 23 16 00-0112	EA			2-5/8" ACR Wrought Copper 45 Degree Elbow .....	237.64	86.08
23 23 16 00-0113	EA			3-1/8" ACR Wrought Copper 45 Degree Elbow .....	321.35	113.20
23 23 16 00-0114	EA			4-1/8" ACR Wrought Copper 45 Degree Elbow .....	524.58	134.49
23 23 16 00-0115				<b>ACR Wrought Copper Tee</b> (23 23 16 00-0058) Note: C x C x C		
23 23 16 00-0116	EA			1/4" ACR Wrought Copper Tee .....	54.67	27.56
23 23 16 00-0117	EA			3/8" ACR Wrought Copper Tee .....	55.42	27.56
23 23 16 00-0118	EA			1/2" ACR Wrought Copper Tee .....	52.64	27.56
23 23 16 00-0119	EA			5/8" ACR Wrought Copper Tee .....	56.02	34.77
23 23 16 00-0120	EA			3/4" ACR Wrought Copper Tee .....	77.82	34.77
23 23 16 00-0121	EA			7/8" ACR Wrought Copper Tee .....	62.48	35.23
23 23 16 00-0122	EA			1-1/8" ACR Wrought Copper Tee .....	99.97	46.72
23 23 16 00-0123	EA			1-3/8" ACR Wrought Copper Tee .....	125.29	56.68
23 23 16 00-0124	EA			1-5/8" ACR Wrought Copper Tee .....	163.08	67.25
23 23 16 00-0125	EA			2-1/8" ACR Wrought Copper Tee .....	231.53	89.61
23 23 16 00-0126	EA			2-5/8" ACR Wrought Copper Tee .....	489.22	195.61
23 23 16 00-0127	EA			3-1/8" ACR Wrought Copper Tee .....	603.73	215.06
23 23 16 00-0128	EA			4-1/8" ACR Wrought Copper Tee .....	1,039.00	238.96
23 23 16 00-0129				<b>ACR Wrought Copper Male Adapter</b> (23 23 16 00-0058) Note: C x M		
23 23 16 00-0130	EA			1/4" ACR Wrought Copper Male Adapter .....	45.72	16.54
23 23 16 00-0131	EA			3/8" ACR Wrought Copper Male Adapter .....	52.53	16.54
23 23 16 00-0132	EA			1/2" ACR Wrought Copper Male Adapter .....	41.22	16.54
23 23 16 00-0133				<b>ACR Wrought Copper Female Adapter</b> (23 23 16 00-0058) Note: C x F		
23 23 16 00-0134	EA			1/4" ACR Wrought Copper Female Adapter .....	43.05	16.54
23 23 16 00-0135	EA			3/8" ACR Wrought Copper Female Adapter .....	39.14	16.54
23 23 16 00-0136	EA			1/2" ACR Wrought Copper Female Adapter .....	40.62	16.54
23 23 16 00-0137				<b>ACR Wrought Copper Cap</b> (23 23 16 00-0058) Note: C		
23 23 16 00-0138	EA			1/4" ACR Wrought Copper Cap .....	19.75	11.03
23 23 16 00-0139	EA			3/8" ACR Wrought Copper Cap .....	18.52	11.03
23 23 16 00-0140	EA			1/2" ACR Wrought Copper Cap .....	19.72	11.03
23 23 16 00-0141				<b>ACR Wrought Copper P-Trap</b> (23 23 16 00-0058)		
23 23 16 00-0142	EA			5/8" ACR Wrought Copper P-Trap .....	122.99	14.10
23 23 16 00-0143	EA			3/4" ACR Wrought Copper P-Trap .....	166.79	15.51
23 23 16 00-0144	EA			7/8" ACR Wrought Copper P-Trap .....	145.88	15.51
23 23 16 00-0145	EA			1-1/8" ACR Wrought Copper P-Trap .....	197.98	16.92
23 23 16 00-0146	EA			1-3/8" ACR Wrought Copper P-Trap .....	343.51	16.92
23 23 16 00-0147	EA			1-5/8" ACR Wrought Copper P-Trap .....	483.59	18.34
23 23 16 00-0148	EA			2-1/8" ACR Wrought Copper P-Trap .....	870.65	19.75
23 23 16 00-0149				<b>Sight Glass With Moisture And Liquid Indicator, Solder Connection</b> (23 23 16)		
23 23 16 00-0150	EA			1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	70.30	21.16
23 23 16 00-0151	EA			3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	85.05	25.39
23 23 16 00-0152	EA			1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	102.37	31.02
23 23 16 00-0153	EA			5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	113.21	35.26
23 23 16 00-0154	EA			7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	151.20	45.13
23 23 16 00-0155	EA			1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	176.29	55.01
23 23 16 00-0156	EA			1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	263.68	64.88
23 23 16 00-0157	EA			1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	329.05	88.86
23 23 16 00-0158	EA			2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	404.81	110.02
23 23 16 00-0159				<b>Filter Driers, Solder Connections</b> (23 23 16)		
23 23 16 00-0160				<b>Replaceable Core Type Filter Driers, Solder Connections</b> (23 23 16 00-0159)		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 20 HVAC Piping and Pumps****23 23 Refrigerant Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0161	EA		5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	572.38	12.70
23 23 16 00-0162	EA		7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	586.32	15.51
23 23 16 00-0163	EA		1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	751.25	15.51
23 23 16 00-0164	EA		1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	759.17	16.92
23 23 16 00-0165	EA		1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	854.38	18.34
23 23 16 00-0166	EA		2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	978.08	19.75
23 23 16 00-0167	EA		2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	1,146.17	21.16
23 23 16 00-0168	EA		3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	1,431.12	21.16
<b>23 23 16 00-0169</b>			<b>Sealed In-Line Filter Driers, Solder Connections</b> (23 23 16 00-0159)		
23 23 16 00-0170	EA		1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections.....	107.99	12.70
23 23 16 00-0171	EA		3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections.....	138.03	12.70
23 23 16 00-0172	EA		1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections.....	175.50	14.10
23 23 16 00-0173	EA		1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections .....	201.66	14.10
23 23 16 00-0174	EA		5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections.....	222.69	14.10
23 23 16 00-0175	EA		5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections.....	250.88	14.10
23 23 16 00-0176	EA		7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections.....	283.05	15.51
23 23 16 00-0177	EA		7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections .....	394.76	15.51
23 23 16 00-0178	EA		1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections .....	433.29	15.51
<b>23 23 16 00-0179</b>			<b>Bi-Flow Filter Driers, Solder Connections</b> (23 23 16 00-0159)		
23 23 16 00-0180	EA		1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	142.97	12.70
23 23 16 00-0181	EA		3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	162.93	12.70
23 23 16 00-0182	EA		1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	195.87	14.10
23 23 16 00-0183	EA		3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	172.80	12.70
23 23 16 00-0184	EA		1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	216.23	14.10
23 23 16 00-0185	EA		5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	254.37	14.10
<b>23 23 16 00-0186</b>			<b>Refrigerant Compressor Discharge Mufflers</b> (23 23 16)		
23 23 16 00-0187	EA		3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler .....	133.29	12.70
23 23 16 00-0188	EA		1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler .....	147.33	12.70
23 23 16 00-0189	EA		5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler .....	177.00	12.70
23 23 16 00-0190	EA		7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler .....	238.31	15.51
23 23 16 00-0191	EA		1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler .....	312.14	15.51
23 23 16 00-0192	EA		1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler .....	371.51	16.92
23 23 16 00-0193	EA		1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler .....	469.66	18.34
23 23 16 00-0194	EA		2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler .....	823.45	19.75
23 23 16 00-0195	EA		2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler .....	929.47	21.16
23 23 16 00-0196	EA		3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler .....	1,151.94	21.16
<b>23 23 16 00-0197</b>			<b>Expansion Valves And Vibration Absorbers</b> (23 23 16)		
<b>23 23 16 00-0198</b>			<b>Thermostatic Expansion Valves</b> (23 23 16 00-0197)		
			Note: Outside diameter pipe sizes. Sporlan TP-S.		
23 23 16 00-0199	EA		3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve .....	266.36	12.70
23 23 16 00-0200	EA		1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve .....	370.41	14.10
23 23 16 00-0201	EA		5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve .....	615.57	14.10
23 23 16 00-0202	EA		7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve .....	730.47	15.51
23 23 16 00-0203	EA		7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve .....	800.99	15.51
<b>23 23 16 00-0204</b>			<b>Electric Expansion Valves</b> (23 23 16 00-0197)		
			Note: Sporlan SEI or SEH.		
23 23 16 00-0205	EA		1/2 To 11 Ton Electric Expansion Valve .....	632.78	17.62
			Note: Sporlan SEI.		
23 23 16 00-0206	EA		25 Ton Electric Expansion Valve .....	729.36	18.34
			Note: Sporlan SEI.		
23 23 16 00-0207	EA		50 Ton Electric Expansion Valve .....	826.46	19.04
			Note: Sporlan SEI.		
23 23 16 00-0208	EA		100 Ton Electric Expansion Valve .....	977.54	19.04
			Note: Sporlan SEH.		
23 23 16 00-0209	EA		175 Ton Electric Expansion Valve .....	1,098.78	19.75
			Note: Sporlan SEH.		
<b>23 23 16 00-0210</b>			<b>Braided Stainless Steel Over Copper Vibration Absorber</b> (23 23 16 00-0197)		
23 23 16 00-0211	EA		1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	70.95	18.34
23 23 16 00-0212	EA		3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber .....	73.39	21.16
23 23 16 00-0213	EA		1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	94.46	26.80
23 23 16 00-0214	EA		5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	103.10	32.44
23 23 16 00-0215	EA		3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber .....	122.08	39.50
23 23 16 00-0216	EA		7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	140.70	45.13
23 23 16 00-0217	EA		1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	200.52	16.92
23 23 16 00-0218	EA		1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	277.16	18.34
23 23 16 00-0219	EA		1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	342.43	18.34
23 23 16 00-0220	EA		2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	459.57	19.75
23 23 16 00-0221	EA		2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	769.56	21.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0222 EA 3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber .....	1,004.66	21.16
<b>23 23 16 00-0223 Accumulator, Refrigerant Suction Line</b> <small>(23 23 16)</small>		
23 23 16 00-0224 EA 3/4" Accumulator, Refrigeration Suction Line .....	229.55	64.17
23 23 16 00-0225 EA 7/8" Accumulator, Refrigeration Suction Line .....	311.65	88.14
23 23 16 00-0226 EA 1-1/8" Accumulator, Refrigeration Suction Line .....	376.74	117.49
23 23 16 00-0227 EA 1 3/8" Accumulator, Refrigeration Suction Line .....	520.77	141.04
23 23 16 00-0228 EA 1-5/8" Accumulator, Refrigeration Suction Line .....	710.34	176.30
23 23 16 00-0229 EA 2-1/8" Accumulator, Refrigeration Suction Line .....	1,066.71	235.11
<b>23 23 16 00-0230 Special Chemicals/Component</b> <small>(23 23 16)</small>		
23 23 16 00-0231 GAL Special Chemical, Inhibited Propylene Glycol, 100% .....	41.86	
23 23 16 00-0232 GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol.....	10.94	
23 23 16 00-0233 GAL Special Chemical, Inhibited Ethylene Glycol, 100% .....	28.72	
23 23 16 00-0234 EA Internal Coil/Refrigerant Piping Flush .....	379.59	
Note: Up to 10 ton AC system.		
<b>23 23 23 Refrigerants</b> <small>(23 23)</small>		
<b>23 23 23 00-0001 Refrigerant</b> <small>(23 23 23)</small>		
23 23 23 00-0002 LB R-113 Refrigerant .....	42.98	
23 23 23 00-0003 LB R-123 Refrigerant .....	31.53	
23 23 23 00-0004 LB R-134A Refrigerant .....	11.24	
23 23 23 00-0005 LB R-404A Refrigerant .....	20.11	
23 23 23 00-0006 LB R-407C Refrigerant .....	19.89	
23 23 23 00-0007 LB R-408A Refrigerant .....	45.35	
23 23 23 00-0008 LB R-410A Refrigerant .....	19.49	
23 23 23 00-0009 LB R-500 Refrigerant .....	38.53	
23 23 23 00-0010 LB R-507 Refrigerant .....	12.40	
<b>23 25 HVAC Water Treatment</b> <small>(23 20)</small>		
<b>23 25 13 Water Treatment for Closed-Loop Hydronic Systems</b> <small>(23 25)</small>		
<b>23 25 13 00-0001 Polyethylene Chemical Storage Tanks</b> <small>(23 25 13)</small>		
23 25 13 00-0002 EA 15 Gallon Chemical Storage Tank, Polyethylene.....	566.45	117.80
<b>23 25 13 00-0003 Gas Chlorinator</b> <small>(23 25 13)</small>		
23 25 13 00-0004 EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,422.05	535.96
<i>For Booster Pump, Add</i>		
	<i>584.92</i>	
23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,624.90	612.52
<i>For Booster Pump, Add</i>		
	<i>668.64</i>	
23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	2,165.22	463.98
<i>For Booster Pump, Add</i>		
	<i>804.29</i>	
<b>23 25 13 00-0007 Bypass Shot Feeders</b> <small>(23 25 13)</small>		
Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.		
<b>23 25 13 00-0008 In Line Mount, 125 PSIG</b> <small>(23 25 13 00-0007)</small>		
23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG .....	1,355.47	399.14
<b>23 25 13 00-0010 Floor Mount, 175 PSIG</b> <small>(23 25 13 00-0007)</small>		
23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	2,003.76	600.83
23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	2,644.86	795.46
<b>23 25 13 00-0013 Floor Mount, 150 LB ASME Code</b> <small>(23 25 13 00-0007)</small>		
23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code.....	2,003.76	600.83
23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code .....	2,644.86	795.46
<b>23 25 13 00-0016 Floor Mount, 300 LB ASME Code</b> <small>(23 25 13 00-0007)</small>		
23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code .....	2,388.47	600.83
23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code .....	3,044.33	795.46

**23 30 HVAC Air Distribution** (23)

**23 31 HVAC Ducts and Casings** (23 30)

Note: Excludes angle iron, threaded rod, anchor bolts or other external supporting devices other than normal sheet metal straps. See

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

CSI section 23 05 29 00-0001 for threaded rod.

**23 31 13 Metal Ducts** (23 31)

**23 31 13 13 Rectangular Metal Ducts** (23 31 13)

**23 31 13 13-0001 Steel Sheet Metal Duct** (23 31 13 13)

Note: Includes all fittings, transitions, collars, straps, support straps, fabrication, installation and sealing the joints by tape, mastic, or spray on sealer. Duct Sealing: Class-C requires sealing transverse joints; Class-B requires sealing all transverse joint and longitudinal seams; Class-A requires sealing all transverse joints longitudinal seams and duct wall penetrations.

**23 31 13 13-0002 Galvanized Steel Sheet Metal Ductwork And Sealant** (23 31 13 13-0001)

Note: SMACNA weight for galvanized steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.906 LB/SF; 24 gauge - 1.156 LB/SF; 22 gauge - 1.406 LB/SF; 20 gauge - 1.656 LB/SF; 18 gauge - 2.156 LB/SF; 16 gauge - 2.656 LB/SF

23 31 13 13-0003	LB Seal Class C, Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....	13.86	3.76
	For Polyvinyl Chloride (PVC) Coated, Add	0.46	
	For Up To 200, Add	4.85	
	For >200 To 500, Add	3.07	
	For >500 To 1,000, Add	2.10	
	For >1,000 To 2,000, Add	1.18	
	For >2,000 To 5,000, Add	0.53	
	For Work In Restricted Working Space, Add	3.47	
	For Elevated Installation >10' To 15', Add	0.69	
	For Elevated Installation >15' To 20', Add	1.39	
	For Elevated Installation >20' To 25', Add	1.74	
	For Elevated Installation >25' To 30', Add	2.43	
	For Elevated Installation >30' To 35', Add	2.78	
	For Elevated Installation >35' To 40', Add	3.47	
	For Elevated Installation >40', Add	3.82	
23 31 13 13-0004	LB Seal Class B, Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....	15.84	3.76
	For Polyvinyl Chloride (PVC) Coated, Add	0.51	
	For Up To 200, Add	5.51	
	For >200 To 500, Add	3.48	
	For >500 To 1,000, Add	2.39	
	For >1,000 To 2,000, Add	1.34	
	For >2,000 To 5,000, Add	0.61	
	For Work In Restricted Working Space, Add	3.99	
	For Elevated Installation >10' To 15', Add	0.80	
	For Elevated Installation >15' To 20', Add	1.60	
	For Elevated Installation >20' To 25', Add	2.00	
	For Elevated Installation >25' To 30', Add	2.80	
	For Elevated Installation >30' To 35', Add	3.19	
	For Elevated Installation >35' To 40', Add	3.99	
	For Elevated Installation >40', Add	4.39	
23 31 13 13-0005	LB Seal Class A, Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork.....	18.97	3.76
	For Polyvinyl Chloride (PVC) Coated, Add	0.55	
	For Up To 200, Add	6.52	
	For >200 To 500, Add	4.11	
	For >500 To 1,000, Add	2.85	
	For >1,000 To 2,000, Add	1.60	
	For >2,000 To 5,000, Add	0.73	
	For Work In Restricted Working Space, Add	4.86	
	For Elevated Installation >10' To 15', Add	0.97	
	For Elevated Installation >15' To 20', Add	1.94	
	For Elevated Installation >20' To 25', Add	2.43	
	For Elevated Installation >25' To 30', Add	3.40	
	For Elevated Installation >30' To 35', Add	3.89	
	For Elevated Installation >35' To 40', Add	4.86	
	For Elevated Installation >40', Add	5.35	

**23 31 13 13-0006 Alloy 3003-H14, Aluminum Sheet Metal Ductwork** (23 31 13 13-0001)

Note: SMACNA weight for aluminum ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.224 LB/SF; 24 gauge - 0.282 LB/SF; 22 gauge - 0.352 LB/SF; 20 gauge - 0.451 LB/SF; 18 gauge - 0.563 LB/SF; 16 gauge - 0.718 LB/SF; 14 gauge - 0.901 LB/SF; 12 gauge - 0.141 LB/SF

23 31 13 13-0007	LB Seal Class C, Alloy 3003-H14, Aluminum Sheet Metal Ductwork.....	27.00	3.76
	For Work In Restricted Working Space, Add	6.86	
	For Up To 200, Add	9.34	
	For >200 To 500, Add	5.89	
	For >500 To 1,000, Add	4.07	
	For >1,000 To 2,000, Add	2.28	
	For >2,000 To 5,000, Add	1.04	
	For Elevated Installation >10' To 15', Add	1.37	
	For Elevated Installation >15' To 20', Add	2.74	
	For Elevated Installation >20' To 25', Add	3.43	
	For Elevated Installation >25' To 30', Add	4.80	
	For Elevated Installation >30' To 35', Add	5.49	
	For Elevated Installation >35' To 40', Add	6.86	
	For Elevated Installation >40', Add	7.55	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0008 LB Seal Class B, Alloy 3003-H14, Aluminum Sheet Metal Ductwork.....	30.67	3.76
For Work In Restricted Working Space, Add	7.89	
For Up To 200, Add	10.51	
For >200 To 500, Add	6.61	
For >500 To 1,000, Add	4.60	
For >1,000 To 2,000, Add	2.58	
For >2,000 To 5,000, Add	1.18	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.16	
For Elevated Installation >20' To 25', Add	3.95	
For Elevated Installation >25' To 30', Add	5.52	
For Elevated Installation >30' To 35', Add	6.31	
For Elevated Installation >35' To 40', Add	7.89	
For Elevated Installation >40', Add	8.68	
23 31 13 13-0009 LB Seal Class A, Alloy 3003-H14, Aluminum Sheet Metal Ductwork.....	36.62	3.76
For Work In Restricted Working Space, Add	9.60	
For Up To 200, Add	12.37	
For >200 To 500, Add	7.74	
For >500 To 1,000, Add	5.45	
For >1,000 To 2,000, Add	3.07	
For >2,000 To 5,000, Add	1.42	
For Elevated Installation >10' To 15', Add	1.92	
For Elevated Installation >15' To 20', Add	3.84	
For Elevated Installation >20' To 25', Add	4.80	
For Elevated Installation >25' To 30', Add	6.72	
For Elevated Installation >30' To 35', Add	7.68	
For Elevated Installation >35' To 40', Add	9.60	
For Elevated Installation >40', Add	10.56	
<b>23 31 13 13-0010 Type 304, Stainless Steel Sheet Metal Ductwork</b> <small>(23 31 13 13-0001)</small>		
Note: SMACNA weight for stainless steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.748 LB/SF; 24 gauge - 0.987 LB/SF; 22 gauge - 1.231 LB/SF; 20 gauge - 1.491 LB/SF; 18 gauge - 2.016 LB/SF; 16 gauge - 2.499 LB/SF; 14 gauge - 3.154 LB/SF; 12 gauge - 4.427 LB/SF		
23 31 13 13-0011 LB Seal Class C, Type 304, Stainless Steel Sheet Metal Ductwork.....	19.54	5.00
For Work In Restricted Working Space, Add	4.22	
For Welded Seams, Add	7.30	
For Up To 200, Add	7.51	
For >200 To 500, Add	4.89	
For >500 To 1,000, Add	3.12	
For >1,000 To 2,000, Add	1.73	
For >2,000 To 5,000, Add	0.73	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.69	
For Elevated Installation >20' To 25', Add	2.11	
For Elevated Installation >25' To 30', Add	2.95	
For Elevated Installation >30' To 35', Add	3.37	
For Elevated Installation >35' To 40', Add	4.22	
For Elevated Installation >40', Add	4.64	
23 31 13 13-0012 LB Seal Class B, Type 304, Stainless Steel Sheet Metal Ductwork.....	22.68	5.00
For Work In Restricted Working Space, Add	5.09	
For Welded Seams, Add	8.76	
For Up To 200, Add	8.52	
For >200 To 500, Add	5.51	
For >500 To 1,000, Add	3.58	
For >1,000 To 2,000, Add	1.99	
For >2,000 To 5,000, Add	0.85	
For Elevated Installation >10' To 15', Add	1.02	
For Elevated Installation >15' To 20', Add	2.03	
For Elevated Installation >20' To 25', Add	2.54	
For Elevated Installation >25' To 30', Add	3.56	
For Elevated Installation >30' To 35', Add	4.07	
For Elevated Installation >35' To 40', Add	5.09	
For Elevated Installation >40', Add	5.59	
23 31 13 13-0013 LB Seal Class A, Type 304, Stainless Steel Sheet Metal Ductwork.....	25.64	5.00
For Work In Restricted Working Space, Add	5.90	
For Welded Seams, Add	10.13	
For Up To 200, Add	9.48	
For >200 To 500, Add	6.11	
For >500 To 1,000, Add	4.01	
For >1,000 To 2,000, Add	2.23	
For >2,000 To 5,000, Add	0.97	
For Elevated Installation >10' To 15', Add	1.18	
For Elevated Installation >15' To 20', Add	2.36	
For Elevated Installation >20' To 25', Add	2.95	
For Elevated Installation >25' To 30', Add	4.13	
For Elevated Installation >30' To 35', Add	4.72	
For Elevated Installation >35' To 40', Add	5.90	
For Elevated Installation >40', Add	6.49	

**23 31 13 13-0014 Galvanized Steel Sheet Metal Ductwork By LF** (23 31 13 13-0001)

Note: Ductwork includes collars, straps, support straps, etc. Shop fabricated ductwork is designed and fabricated in shop with machines, delivered to site and installed. For fittings add the following equivalent lengths: 0.75' for duct end cap; 1.5' for tap-in; 2.5' for 45 degree elbows; 3' for 90 degree elbows, transition, taper, register box; 4' for 45 degree reducing elbow, offset, turning vanes installed in elbows; 5' for 90 degree reducing elbow, 135 degree angle gooseneck, boots; and 6' for transition/reducer.

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0015		<b>30 Gauge Galvanized Steel Metal Ductwork</b> <small>(23 31 13 13-0014)</small>		
23 31 13 13-0016	LF	4" x 4", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	14.74	7.72
		<i>For Seal Class B, Add</i>	1.93	
		<i>For Seal Class A, Add</i>	4.12	
		<i>For Work In Restricted Working Space, Add</i>	3.87	
23 31 13 13-0017	LF	4" x 6", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	18.40	9.66
		<i>For Seal Class B, Add</i>	2.42	
		<i>For Seal Class A, Add</i>	5.15	
		<i>For Work In Restricted Working Space, Add</i>	4.83	
23 31 13 13-0018	LF	4" x 8", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	22.10	11.60
		<i>For Seal Class B, Add</i>	2.90	
		<i>For Seal Class A, Add</i>	6.18	
		<i>For Work In Restricted Working Space, Add</i>	5.80	
23 31 13 13-0019	LF	4" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	25.77	13.52
		<i>For Seal Class B, Add</i>	3.38	
		<i>For Seal Class A, Add</i>	7.21	
		<i>For Work In Restricted Working Space, Add</i>	6.76	
23 31 13 13-0020	LF	4" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	29.46	15.46
		<i>For Seal Class B, Add</i>	3.86	
		<i>For Seal Class A, Add</i>	8.24	
		<i>For Work In Restricted Working Space, Add</i>	7.73	
23 31 13 13-0021	LF	4" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	33.14	17.39
		<i>For Seal Class B, Add</i>	4.35	
		<i>For Seal Class A, Add</i>	9.27	
		<i>For Work In Restricted Working Space, Add</i>	8.69	
23 31 13 13-0022	LF	4" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	36.82	19.32
		<i>For Seal Class B, Add</i>	4.83	
		<i>For Seal Class A, Add</i>	10.31	
		<i>For Work In Restricted Working Space, Add</i>	9.66	
23 31 13 13-0023	LF	6" x 6", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	22.10	11.60
		<i>For Seal Class B, Add</i>	2.90	
		<i>For Seal Class A, Add</i>	6.18	
		<i>For Work In Restricted Working Space, Add</i>	5.80	
23 31 13 13-0024	LF	6" x 8", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	25.77	13.52
		<i>For Seal Class B, Add</i>	3.38	
		<i>For Seal Class A, Add</i>	7.21	
		<i>For Work In Restricted Working Space, Add</i>	6.76	
23 31 13 13-0025	LF	6" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	29.46	15.46
		<i>For Seal Class B, Add</i>	3.86	
		<i>For Seal Class A, Add</i>	8.24	
		<i>For Work In Restricted Working Space, Add</i>	7.73	
23 31 13 13-0026	LF	6" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	33.14	17.39
		<i>For Seal Class B, Add</i>	4.35	
		<i>For Seal Class A, Add</i>	9.27	
		<i>For Work In Restricted Working Space, Add</i>	8.69	
23 31 13 13-0027	LF	6" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	36.82	19.32
		<i>For Seal Class B, Add</i>	4.83	
		<i>For Seal Class A, Add</i>	10.31	
		<i>For Work In Restricted Working Space, Add</i>	9.66	
23 31 13 13-0028	LF	6" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	40.50	21.25
		<i>For Seal Class B, Add</i>	5.31	
		<i>For Seal Class A, Add</i>	11.33	
		<i>For Work In Restricted Working Space, Add</i>	10.63	
23 31 13 13-0029	LF	8" x 8", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	29.46	15.46
		<i>For Seal Class B, Add</i>	3.86	
		<i>For Seal Class A, Add</i>	8.24	
		<i>For Work In Restricted Working Space, Add</i>	7.73	
23 31 13 13-0030	LF	8" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	33.14	17.39
		<i>For Seal Class B, Add</i>	4.35	
		<i>For Seal Class A, Add</i>	9.27	
		<i>For Work In Restricted Working Space, Add</i>	8.69	
23 31 13 13-0031	LF	8" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	36.82	19.32
		<i>For Seal Class B, Add</i>	4.83	
		<i>For Seal Class A, Add</i>	10.31	
		<i>For Work In Restricted Working Space, Add</i>	9.66	
23 31 13 13-0032	LF	8" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	40.50	21.25
		<i>For Seal Class B, Add</i>	5.31	
		<i>For Seal Class A, Add</i>	11.33	
		<i>For Work In Restricted Working Space, Add</i>	10.63	
23 31 13 13-0033	LF	8" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	44.17	23.18
		<i>For Seal Class B, Add</i>	5.80	
		<i>For Seal Class A, Add</i>	12.36	
		<i>For Work In Restricted Working Space, Add</i>	11.59	
23 31 13 13-0034	LF	8" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	47.88	25.12
		<i>For Seal Class B, Add</i>	6.28	
		<i>For Seal Class A, Add</i>	13.40	
		<i>For Work In Restricted Working Space, Add</i>	12.56	
23 31 13 13-0035	LF	8" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	51.54	27.05
		<i>For Seal Class B, Add</i>	6.76	
		<i>For Seal Class A, Add</i>	14.43	
		<i>For Work In Restricted Working Space, Add</i>	13.52	
23 31 13 13-0036	LF	8" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.23	28.98
		<i>For Seal Class B, Add</i>	7.25	
		<i>For Seal Class A, Add</i>	15.46	
		<i>For Work In Restricted Working Space, Add</i>	14.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0037 LF 8" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	58.89	30.92
For Seal Class B, Add	7.73	
For Seal Class A, Add	16.48	
For Work In Restricted Working Space, Add	15.45	
23 31 13 13-0038 LF 10" x 10", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	36.82	19.32
For Seal Class B, Add	4.83	
For Seal Class A, Add	10.31	
For Work In Restricted Working Space, Add	9.66	
23 31 13 13-0039 LF 10" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	40.50	21.25
For Seal Class B, Add	5.31	
For Seal Class A, Add	11.33	
For Work In Restricted Working Space, Add	10.63	
23 31 13 13-0040 LF 10" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	44.17	23.18
For Seal Class B, Add	5.80	
For Seal Class A, Add	12.36	
For Work In Restricted Working Space, Add	11.59	
23 31 13 13-0041 LF 10" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	47.88	25.12
For Seal Class B, Add	6.28	
For Seal Class A, Add	13.40	
For Work In Restricted Working Space, Add	12.56	
23 31 13 13-0042 LF 10" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	51.54	27.05
For Seal Class B, Add	6.76	
For Seal Class A, Add	14.43	
For Work In Restricted Working Space, Add	13.52	
23 31 13 13-0043 LF 10" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.23	28.98
For Seal Class B, Add	7.25	
For Seal Class A, Add	15.46	
For Work In Restricted Working Space, Add	14.49	
23 31 13 13-0044 LF 10" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	58.89	30.92
For Seal Class B, Add	7.73	
For Seal Class A, Add	16.48	
For Work In Restricted Working Space, Add	15.45	
23 31 13 13-0045 LF 10" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	62.61	32.85
For Seal Class B, Add	8.21	
For Seal Class A, Add	17.52	
For Work In Restricted Working Space, Add	16.43	
23 31 13 13-0046 LF 12" x 12", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	44.17	23.18
For Seal Class B, Add	5.80	
For Seal Class A, Add	12.36	
For Work In Restricted Working Space, Add	11.59	
23 31 13 13-0047 LF 12" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	47.88	25.12
For Seal Class B, Add	6.28	
For Seal Class A, Add	13.40	
For Work In Restricted Working Space, Add	12.56	
23 31 13 13-0048 LF 12" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	51.54	27.05
For Seal Class B, Add	6.76	
For Seal Class A, Add	14.43	
For Work In Restricted Working Space, Add	13.52	
23 31 13 13-0049 LF 12" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.23	28.98
For Seal Class B, Add	7.25	
For Seal Class A, Add	15.46	
For Work In Restricted Working Space, Add	14.49	
23 31 13 13-0050 LF 12" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	58.89	30.92
For Seal Class B, Add	7.73	
For Seal Class A, Add	16.48	
For Work In Restricted Working Space, Add	15.45	
23 31 13 13-0051 LF 12" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	62.61	32.85
For Seal Class B, Add	8.21	
For Seal Class A, Add	17.52	
For Work In Restricted Working Space, Add	16.43	
23 31 13 13-0052 LF 12" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	66.28	34.78
For Seal Class B, Add	8.70	
For Seal Class A, Add	18.55	
For Work In Restricted Working Space, Add	17.39	
23 31 13 13-0053 LF 14" x 14", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	51.54	27.05
For Seal Class B, Add	6.76	
For Seal Class A, Add	14.43	
For Work In Restricted Working Space, Add	13.52	
23 31 13 13-0054 LF 14" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.23	28.98
For Seal Class B, Add	7.25	
For Seal Class A, Add	15.46	
For Work In Restricted Working Space, Add	14.49	
23 31 13 13-0055 LF 14" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	58.89	30.92
For Seal Class B, Add	7.73	
For Seal Class A, Add	16.48	
For Work In Restricted Working Space, Add	15.45	
23 31 13 13-0056 LF 14" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	62.61	32.85
For Seal Class B, Add	8.21	
For Seal Class A, Add	17.52	
For Work In Restricted Working Space, Add	16.43	
23 31 13 13-0057 LF 14" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	66.28	34.78
For Seal Class B, Add	8.70	
For Seal Class A, Add	18.55	
For Work In Restricted Working Space, Add	17.39	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0058 LF 14" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	69.97	36.71
For Seal Class B, Add	9.18	
For Seal Class A, Add	19.58	
For Work In Restricted Working Space, Add	18.36	
23 31 13 13-0059 LF 16" x 16", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	58.89	30.92
For Seal Class B, Add	7.73	
For Seal Class A, Add	16.48	
For Work In Restricted Working Space, Add	15.45	
23 31 13 13-0060 LF 16" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	62.61	32.85
For Seal Class B, Add	8.21	
For Seal Class A, Add	17.52	
For Work In Restricted Working Space, Add	16.43	
23 31 13 13-0061 LF 16" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	66.28	34.78
For Seal Class B, Add	8.70	
For Seal Class A, Add	18.55	
For Work In Restricted Working Space, Add	17.39	
23 31 13 13-0062 LF 16" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	69.97	36.71
For Seal Class B, Add	9.18	
For Seal Class A, Add	19.58	
For Work In Restricted Working Space, Add	18.36	
23 31 13 13-0063 LF 16" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	73.64	38.64
For Seal Class B, Add	9.66	
For Seal Class A, Add	20.61	
For Work In Restricted Working Space, Add	19.32	
23 31 13 13-0064 LF 18" x 18", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	66.28	34.78
For Seal Class B, Add	8.70	
For Seal Class A, Add	18.55	
For Work In Restricted Working Space, Add	17.39	
23 31 13 13-0065 LF 18" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	69.97	36.71
For Seal Class B, Add	9.18	
For Seal Class A, Add	19.58	
For Work In Restricted Working Space, Add	18.36	
23 31 13 13-0066 LF 18" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	73.64	38.64
For Seal Class B, Add	9.66	
For Seal Class A, Add	20.61	
For Work In Restricted Working Space, Add	19.32	
23 31 13 13-0067 LF 18" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	77.31	40.57
For Seal Class B, Add	10.14	
For Seal Class A, Add	21.64	
For Work In Restricted Working Space, Add	20.29	
23 31 13 13-0068 LF 20" x 20", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	73.64	38.64
For Seal Class B, Add	9.66	
For Seal Class A, Add	20.61	
For Work In Restricted Working Space, Add	19.32	
23 31 13 13-0069 LF 20" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	77.31	40.57
For Seal Class B, Add	10.14	
For Seal Class A, Add	21.64	
For Work In Restricted Working Space, Add	20.29	
23 31 13 13-0070 LF 20" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	81.00	42.50
For Seal Class B, Add	10.63	
For Seal Class A, Add	22.67	
For Work In Restricted Working Space, Add	21.25	
23 31 13 13-0071 LF 22" x 22", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	81.00	42.50
For Seal Class B, Add	10.63	
For Seal Class A, Add	22.67	
For Work In Restricted Working Space, Add	21.25	
23 31 13 13-0072 LF 22" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	84.67	44.44
For Seal Class B, Add	11.11	
For Seal Class A, Add	23.70	
For Work In Restricted Working Space, Add	22.22	
23 31 13 13-0073 LF 24" x 24", 30 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	88.38	46.37
For Seal Class B, Add	11.59	
For Seal Class A, Add	24.73	
For Work In Restricted Working Space, Add	23.19	
<b>23 31 13 13-0074 28 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)</b>		
23 31 13 13-0075 LF 4" x 4", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	17.53	9.20
For Seal Class B, Add	2.30	
For Seal Class A, Add	4.91	
For Work In Restricted Working Space, Add	4.60	
23 31 13 13-0076 LF 4" x 6", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	21.93	11.50
For Seal Class B, Add	2.88	
For Seal Class A, Add	6.13	
For Work In Restricted Working Space, Add	5.75	
23 31 13 13-0077 LF 4" x 8", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	26.31	13.80
For Seal Class B, Add	3.45	
For Seal Class A, Add	7.36	
For Work In Restricted Working Space, Add	6.90	
23 31 13 13-0078 LF 4" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	30.67	16.10
For Seal Class B, Add	4.02	
For Seal Class A, Add	8.59	
For Work In Restricted Working Space, Add	8.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0079 LF 4" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	35.07	18.41
<i>For Seal Class B, Add</i>	4.60	
<i>For Seal Class A, Add</i>	9.81	
<i>For Work In Restricted Working Space, Add</i>	9.20	
23 31 13 13-0080 LF 4" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	39.45	20.70
<i>For Seal Class B, Add</i>	5.18	
<i>For Seal Class A, Add</i>	11.04	
<i>For Work In Restricted Working Space, Add</i>	10.35	
23 31 13 13-0081 LF 4" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	43.83	23.01
<i>For Seal Class B, Add</i>	5.75	
<i>For Seal Class A, Add</i>	12.27	
<i>For Work In Restricted Working Space, Add</i>	11.50	
23 31 13 13-0082 LF 6" x 6", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	26.31	13.80
<i>For Seal Class B, Add</i>	3.45	
<i>For Seal Class A, Add</i>	7.36	
<i>For Work In Restricted Working Space, Add</i>	6.90	
23 31 13 13-0083 LF 6" x 8", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	30.67	16.10
<i>For Seal Class B, Add</i>	4.02	
<i>For Seal Class A, Add</i>	8.59	
<i>For Work In Restricted Working Space, Add</i>	8.05	
23 31 13 13-0084 LF 6" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	35.07	18.41
<i>For Seal Class B, Add</i>	4.60	
<i>For Seal Class A, Add</i>	9.81	
<i>For Work In Restricted Working Space, Add</i>	9.20	
23 31 13 13-0085 LF 6" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	39.45	20.70
<i>For Seal Class B, Add</i>	5.18	
<i>For Seal Class A, Add</i>	11.04	
<i>For Work In Restricted Working Space, Add</i>	10.35	
23 31 13 13-0086 LF 6" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	43.83	23.01
<i>For Seal Class B, Add</i>	5.75	
<i>For Seal Class A, Add</i>	12.27	
<i>For Work In Restricted Working Space, Add</i>	11.50	
23 31 13 13-0087 LF 6" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	48.23	25.30
<i>For Seal Class B, Add</i>	6.33	
<i>For Seal Class A, Add</i>	13.50	
<i>For Work In Restricted Working Space, Add</i>	12.65	
23 31 13 13-0088 LF 8" x 8", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	35.07	18.41
<i>For Seal Class B, Add</i>	4.60	
<i>For Seal Class A, Add</i>	9.81	
<i>For Work In Restricted Working Space, Add</i>	9.20	
23 31 13 13-0089 LF 8" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	39.45	20.70
<i>For Seal Class B, Add</i>	5.18	
<i>For Seal Class A, Add</i>	11.04	
<i>For Work In Restricted Working Space, Add</i>	10.35	
23 31 13 13-0090 LF 8" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	43.83	23.01
<i>For Seal Class B, Add</i>	5.75	
<i>For Seal Class A, Add</i>	12.27	
<i>For Work In Restricted Working Space, Add</i>	11.50	
23 31 13 13-0091 LF 8" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	48.23	25.30
<i>For Seal Class B, Add</i>	6.33	
<i>For Seal Class A, Add</i>	13.50	
<i>For Work In Restricted Working Space, Add</i>	12.65	
23 31 13 13-0092 LF 8" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	52.60	27.60
<i>For Seal Class B, Add</i>	6.90	
<i>For Seal Class A, Add</i>	14.72	
<i>For Work In Restricted Working Space, Add</i>	13.80	
23 31 13 13-0093 LF 8" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	56.98	29.90
<i>For Seal Class B, Add</i>	7.48	
<i>For Seal Class A, Add</i>	15.95	
<i>For Work In Restricted Working Space, Add</i>	14.95	
23 31 13 13-0094 LF 8" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	61.37	32.21
<i>For Seal Class B, Add</i>	8.05	
<i>For Seal Class A, Add</i>	17.17	
<i>For Work In Restricted Working Space, Add</i>	16.10	
23 31 13 13-0095 LF 8" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	65.74	34.50
<i>For Seal Class B, Add</i>	8.63	
<i>For Seal Class A, Add</i>	18.40	
<i>For Work In Restricted Working Space, Add</i>	17.25	
23 31 13 13-0096 LF 8" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	70.14	36.80
<i>For Seal Class B, Add</i>	9.20	
<i>For Seal Class A, Add</i>	19.63	
<i>For Work In Restricted Working Space, Add</i>	18.40	
23 31 13 13-0097 LF 10" x 10", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	43.83	23.01
<i>For Seal Class B, Add</i>	5.75	
<i>For Seal Class A, Add</i>	12.27	
<i>For Work In Restricted Working Space, Add</i>	11.50	
23 31 13 13-0098 LF 10" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	48.23	25.30
<i>For Seal Class B, Add</i>	6.33	
<i>For Seal Class A, Add</i>	13.50	
<i>For Work In Restricted Working Space, Add</i>	12.65	
23 31 13 13-0099 LF 10" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	52.60	27.60
<i>For Seal Class B, Add</i>	6.90	
<i>For Seal Class A, Add</i>	14.72	
<i>For Work In Restricted Working Space, Add</i>	13.80	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0100	LF	10" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	56.98	29.90
			<i>For Seal Class B, Add</i>	7.48	
			<i>For Seal Class A, Add</i>	15.95	
			<i>For Work In Restricted Working Space, Add</i>	14.95	
23 31 13	13-0101	LF	10" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	61.37	32.21
			<i>For Seal Class B, Add</i>	8.05	
			<i>For Seal Class A, Add</i>	17.17	
			<i>For Work In Restricted Working Space, Add</i>	16.10	
23 31 13	13-0102	LF	10" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	65.74	34.50
			<i>For Seal Class B, Add</i>	8.63	
			<i>For Seal Class A, Add</i>	18.40	
			<i>For Work In Restricted Working Space, Add</i>	17.25	
23 31 13	13-0103	LF	10" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	70.14	36.80
			<i>For Seal Class B, Add</i>	9.20	
			<i>For Seal Class A, Add</i>	19.63	
			<i>For Work In Restricted Working Space, Add</i>	18.40	
23 31 13	13-0104	LF	10" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	74.53	39.11
			<i>For Seal Class B, Add</i>	9.78	
			<i>For Seal Class A, Add</i>	20.86	
			<i>For Work In Restricted Working Space, Add</i>	19.55	
23 31 13	13-0105	LF	12" x 12", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	52.60	27.60
			<i>For Seal Class B, Add</i>	6.90	
			<i>For Seal Class A, Add</i>	14.72	
			<i>For Work In Restricted Working Space, Add</i>	13.80	
23 31 13	13-0106	LF	12" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	56.98	29.90
			<i>For Seal Class B, Add</i>	7.48	
			<i>For Seal Class A, Add</i>	15.95	
			<i>For Work In Restricted Working Space, Add</i>	14.95	
23 31 13	13-0107	LF	12" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	61.37	32.21
			<i>For Seal Class B, Add</i>	8.05	
			<i>For Seal Class A, Add</i>	17.17	
			<i>For Work In Restricted Working Space, Add</i>	16.10	
23 31 13	13-0108	LF	12" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	65.74	34.50
			<i>For Seal Class B, Add</i>	8.63	
			<i>For Seal Class A, Add</i>	18.40	
			<i>For Work In Restricted Working Space, Add</i>	17.25	
23 31 13	13-0109	LF	12" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	70.14	36.80
			<i>For Seal Class B, Add</i>	9.20	
			<i>For Seal Class A, Add</i>	19.63	
			<i>For Work In Restricted Working Space, Add</i>	18.40	
23 31 13	13-0110	LF	12" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	74.53	39.11
			<i>For Seal Class B, Add</i>	9.78	
			<i>For Seal Class A, Add</i>	20.86	
			<i>For Work In Restricted Working Space, Add</i>	19.55	
23 31 13	13-0111	LF	12" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	78.90	41.40
			<i>For Seal Class B, Add</i>	10.35	
			<i>For Seal Class A, Add</i>	22.08	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
23 31 13	13-0112	LF	14" x 14", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	61.37	32.21
			<i>For Seal Class B, Add</i>	8.05	
			<i>For Seal Class A, Add</i>	17.17	
			<i>For Work In Restricted Working Space, Add</i>	16.10	
23 31 13	13-0113	LF	14" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	65.74	34.50
			<i>For Seal Class B, Add</i>	8.63	
			<i>For Seal Class A, Add</i>	18.40	
			<i>For Work In Restricted Working Space, Add</i>	17.25	
23 31 13	13-0114	LF	14" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	70.14	36.80
			<i>For Seal Class B, Add</i>	9.20	
			<i>For Seal Class A, Add</i>	19.63	
			<i>For Work In Restricted Working Space, Add</i>	18.40	
23 31 13	13-0115	LF	14" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	74.53	39.11
			<i>For Seal Class B, Add</i>	9.78	
			<i>For Seal Class A, Add</i>	20.86	
			<i>For Work In Restricted Working Space, Add</i>	19.55	
23 31 13	13-0116	LF	14" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	78.90	41.40
			<i>For Seal Class B, Add</i>	10.35	
			<i>For Seal Class A, Add</i>	22.08	
			<i>For Work In Restricted Working Space, Add</i>	20.70	
23 31 13	13-0117	LF	14" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	83.30	43.70
			<i>For Seal Class B, Add</i>	10.93	
			<i>For Seal Class A, Add</i>	23.31	
			<i>For Work In Restricted Working Space, Add</i>	21.85	
23 31 13	13-0118	LF	16" x 16", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	70.14	36.80
			<i>For Seal Class B, Add</i>	9.20	
			<i>For Seal Class A, Add</i>	19.63	
			<i>For Work In Restricted Working Space, Add</i>	18.40	
23 31 13	13-0119	LF	16" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	74.53	39.11
			<i>For Seal Class B, Add</i>	9.78	
			<i>For Seal Class A, Add</i>	20.86	
			<i>For Work In Restricted Working Space, Add</i>	19.55	
23 31 13	13-0120	LF	16" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	78.90	41.40
			<i>For Seal Class B, Add</i>	10.35	
			<i>For Seal Class A, Add</i>	22.08	
			<i>For Work In Restricted Working Space, Add</i>	20.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0121 LF 16" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	83.30	43.70
For Seal Class B, Add	10.93	
For Seal Class A, Add	23.31	
For Work In Restricted Working Space, Add	21.85	
23 31 13 13-0122 LF 16" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	87.68	46.01
For Seal Class B, Add	11.50	
For Seal Class A, Add	24.54	
For Work In Restricted Working Space, Add	23.00	
23 31 13 13-0123 LF 18" x 18", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	78.90	41.40
For Seal Class B, Add	10.35	
For Seal Class A, Add	22.08	
For Work In Restricted Working Space, Add	20.70	
23 31 13 13-0124 LF 18" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	83.30	43.70
For Seal Class B, Add	10.93	
For Seal Class A, Add	23.31	
For Work In Restricted Working Space, Add	21.85	
23 31 13 13-0125 LF 18" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	87.68	46.01
For Seal Class B, Add	11.50	
For Seal Class A, Add	24.54	
For Work In Restricted Working Space, Add	23.00	
23 31 13 13-0126 LF 18" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	92.05	48.31
For Seal Class B, Add	12.08	
For Seal Class A, Add	25.76	
For Work In Restricted Working Space, Add	24.15	
23 31 13 13-0127 LF 20" x 20", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	87.68	46.01
For Seal Class B, Add	11.50	
For Seal Class A, Add	24.54	
For Work In Restricted Working Space, Add	23.00	
23 31 13 13-0128 LF 20" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	92.05	48.31
For Seal Class B, Add	12.08	
For Seal Class A, Add	25.76	
For Work In Restricted Working Space, Add	24.15	
23 31 13 13-0129 LF 20" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	96.44	50.61
For Seal Class B, Add	12.65	
For Seal Class A, Add	26.99	
For Work In Restricted Working Space, Add	25.30	
23 31 13 13-0130 LF 22" x 22", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	96.44	50.61
For Seal Class B, Add	12.65	
For Seal Class A, Add	26.99	
For Work In Restricted Working Space, Add	25.30	
23 31 13 13-0131 LF 22" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	100.82	52.90
For Seal Class B, Add	13.23	
For Seal Class A, Add	28.21	
For Work In Restricted Working Space, Add	26.45	
23 31 13 13-0132 LF 24" x 24", 28 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	105.20	55.21
For Seal Class B, Add	13.80	
For Seal Class A, Add	29.44	
For Work In Restricted Working Space, Add	27.60	
<b>23 31 13 13-0133 26 Gauge Galvanized Steel Metal Ductwork</b> <small>(23 31 13 13-0014)</small>		
23 31 13 13-0134 LF 4" x 4", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	20.34	10.67
For Seal Class B, Add	2.67	
For Seal Class A, Add	5.69	
For Work In Restricted Working Space, Add	5.34	
23 31 13 13-0135 LF 4" x 6", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	25.43	13.33
For Seal Class B, Add	3.34	
For Seal Class A, Add	7.12	
For Work In Restricted Working Space, Add	6.67	
23 31 13 13-0136 LF 4" x 8", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	30.51	16.02
For Seal Class B, Add	4.00	
For Seal Class A, Add	8.54	
For Work In Restricted Working Space, Add	8.00	
23 31 13 13-0137 LF 4" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	35.59	18.69
For Seal Class B, Add	4.67	
For Seal Class A, Add	9.96	
For Work In Restricted Working Space, Add	9.34	
23 31 13 13-0138 LF 4" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	40.67	21.35
For Seal Class B, Add	5.34	
For Seal Class A, Add	11.38	
For Work In Restricted Working Space, Add	10.67	
23 31 13 13-0139 LF 4" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	45.76	24.01
For Seal Class B, Add	6.00	
For Seal Class A, Add	12.81	
For Work In Restricted Working Space, Add	12.01	
23 31 13 13-0140 LF 4" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	50.84	26.68
For Seal Class B, Add	6.67	
For Seal Class A, Add	14.23	
For Work In Restricted Working Space, Add	13.34	
23 31 13 13-0141 LF 6" x 6", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	30.51	16.02
For Seal Class B, Add	4.00	
For Seal Class A, Add	8.54	
For Work In Restricted Working Space, Add	8.00	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0142 LF 6" x 8", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	35.59	18.69
For Seal Class B, Add	4.67	
For Seal Class A, Add	9.96	
For Work In Restricted Working Space, Add	9.34	
23 31 13 13-0143 LF 6" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	40.67	21.35
For Seal Class B, Add	5.34	
For Seal Class A, Add	11.38	
For Work In Restricted Working Space, Add	10.67	
23 31 13 13-0144 LF 6" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	45.76	24.01
For Seal Class B, Add	6.00	
For Seal Class A, Add	12.81	
For Work In Restricted Working Space, Add	12.01	
23 31 13 13-0145 LF 6" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	50.84	26.68
For Seal Class B, Add	6.67	
For Seal Class A, Add	14.23	
For Work In Restricted Working Space, Add	13.34	
23 31 13 13-0146 LF 6" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.95	29.35
For Seal Class B, Add	7.34	
For Seal Class A, Add	15.66	
For Work In Restricted Working Space, Add	14.68	
23 31 13 13-0147 LF 8" x 8", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	40.67	21.35
For Seal Class B, Add	5.34	
For Seal Class A, Add	11.38	
For Work In Restricted Working Space, Add	10.67	
23 31 13 13-0148 LF 8" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	45.76	24.01
For Seal Class B, Add	6.00	
For Seal Class A, Add	12.81	
For Work In Restricted Working Space, Add	12.01	
23 31 13 13-0149 LF 8" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	50.85	26.68
For Seal Class B, Add	6.67	
For Seal Class A, Add	14.23	
For Work In Restricted Working Space, Add	13.34	
23 31 13 13-0150 LF 8" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.95	29.35
For Seal Class B, Add	7.34	
For Seal Class A, Add	15.66	
For Work In Restricted Working Space, Add	14.68	
23 31 13 13-0151 LF 8" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	61.03	32.02
For Seal Class B, Add	8.01	
For Seal Class A, Add	17.08	
For Work In Restricted Working Space, Add	16.01	
23 31 13 13-0152 LF 8" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	66.11	34.69
For Seal Class B, Add	8.67	
For Seal Class A, Add	18.50	
For Work In Restricted Working Space, Add	17.35	
23 31 13 13-0153 LF 8" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	71.19	37.36
For Seal Class B, Add	9.34	
For Seal Class A, Add	19.93	
For Work In Restricted Working Space, Add	18.68	
23 31 13 13-0154 LF 8" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	76.29	40.02
For Seal Class B, Add	10.01	
For Seal Class A, Add	21.35	
For Work In Restricted Working Space, Add	20.01	
23 31 13 13-0155 LF 8" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	81.36	42.69
For Seal Class B, Add	10.67	
For Seal Class A, Add	22.77	
For Work In Restricted Working Space, Add	21.35	
23 31 13 13-0156 LF 10" x 10", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	50.85	26.68
For Seal Class B, Add	6.67	
For Seal Class A, Add	14.23	
For Work In Restricted Working Space, Add	13.34	
23 31 13 13-0157 LF 10" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.95	29.35
For Seal Class B, Add	7.34	
For Seal Class A, Add	15.66	
For Work In Restricted Working Space, Add	14.68	
23 31 13 13-0158 LF 10" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	61.03	32.02
For Seal Class B, Add	8.01	
For Seal Class A, Add	17.08	
For Work In Restricted Working Space, Add	16.01	
23 31 13 13-0159 LF 10" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	66.11	34.69
For Seal Class B, Add	8.67	
For Seal Class A, Add	18.50	
For Work In Restricted Working Space, Add	17.35	
23 31 13 13-0160 LF 10" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	71.19	37.36
For Seal Class B, Add	9.34	
For Seal Class A, Add	19.93	
For Work In Restricted Working Space, Add	18.68	
23 31 13 13-0161 LF 10" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	76.29	40.02
For Seal Class B, Add	10.01	
For Seal Class A, Add	21.35	
For Work In Restricted Working Space, Add	20.01	
23 31 13 13-0162 LF 10" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	81.36	42.69
For Seal Class B, Add	10.67	
For Seal Class A, Add	22.77	
For Work In Restricted Working Space, Add	21.35	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0163 LF 10" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	86.45	45.37
For Seal Class B, Add	11.34	
For Seal Class A, Add	24.20	
For Work In Restricted Working Space, Add	22.68	
23 31 13 13-0164 LF 12" x 12", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	61.02	32.02
For Seal Class B, Add	8.01	
For Seal Class A, Add	17.08	
For Work In Restricted Working Space, Add	16.01	
23 31 13 13-0165 LF 12" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	66.11	34.69
For Seal Class B, Add	8.67	
For Seal Class A, Add	18.50	
For Work In Restricted Working Space, Add	17.35	
23 31 13 13-0166 LF 12" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	71.19	37.36
For Seal Class B, Add	9.34	
For Seal Class A, Add	19.93	
For Work In Restricted Working Space, Add	18.68	
23 31 13 13-0167 LF 12" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	76.29	40.02
For Seal Class B, Add	10.01	
For Seal Class A, Add	21.35	
For Work In Restricted Working Space, Add	20.01	
23 31 13 13-0168 LF 12" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	81.36	42.69
For Seal Class B, Add	10.67	
For Seal Class A, Add	22.77	
For Work In Restricted Working Space, Add	21.35	
23 31 13 13-0169 LF 12" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	86.45	45.37
For Seal Class B, Add	11.34	
For Seal Class A, Add	24.20	
For Work In Restricted Working Space, Add	22.68	
23 31 13 13-0170 LF 12" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	91.53	48.04
For Seal Class B, Add	12.01	
For Seal Class A, Add	25.62	
For Work In Restricted Working Space, Add	24.02	
23 31 13 13-0171 LF 14" x 14", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	71.19	37.36
For Seal Class B, Add	9.34	
For Seal Class A, Add	19.93	
For Work In Restricted Working Space, Add	18.68	
23 31 13 13-0172 LF 14" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	76.29	40.02
For Seal Class B, Add	10.01	
For Seal Class A, Add	21.35	
For Work In Restricted Working Space, Add	20.01	
23 31 13 13-0173 LF 14" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	81.36	42.69
For Seal Class B, Add	10.67	
For Seal Class A, Add	22.77	
For Work In Restricted Working Space, Add	21.35	
23 31 13 13-0174 LF 14" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	86.45	45.37
For Seal Class B, Add	11.34	
For Seal Class A, Add	24.20	
For Work In Restricted Working Space, Add	22.68	
23 31 13 13-0175 LF 14" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	91.53	48.04
For Seal Class B, Add	12.01	
For Seal Class A, Add	25.62	
For Work In Restricted Working Space, Add	24.02	
23 31 13 13-0176 LF 14" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	96.63	50.71
For Seal Class B, Add	12.68	
For Seal Class A, Add	27.04	
For Work In Restricted Working Space, Add	25.35	
23 31 13 13-0177 LF 16" x 16", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	81.36	42.69
For Seal Class B, Add	10.67	
For Seal Class A, Add	22.77	
For Work In Restricted Working Space, Add	21.35	
23 31 13 13-0178 LF 16" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	86.45	45.37
For Seal Class B, Add	11.34	
For Seal Class A, Add	24.20	
For Work In Restricted Working Space, Add	22.68	
23 31 13 13-0179 LF 16" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	91.53	48.04
For Seal Class B, Add	12.01	
For Seal Class A, Add	25.62	
For Work In Restricted Working Space, Add	24.02	
23 31 13 13-0180 LF 16" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	96.63	50.71
For Seal Class B, Add	12.68	
For Seal Class A, Add	27.04	
For Work In Restricted Working Space, Add	25.35	
23 31 13 13-0181 LF 16" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	101.71	53.37
For Seal Class B, Add	13.34	
For Seal Class A, Add	28.46	
For Work In Restricted Working Space, Add	26.69	
23 31 13 13-0182 LF 18" x 18", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	91.53	48.04
For Seal Class B, Add	12.01	
For Seal Class A, Add	25.62	
For Work In Restricted Working Space, Add	24.02	
23 31 13 13-0183 LF 18" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	96.63	50.71
For Seal Class B, Add	12.68	
For Seal Class A, Add	27.04	
For Work In Restricted Working Space, Add	25.35	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0184	LF	18" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	101.71	53.37
			<i>For Seal Class B, Add</i>	13.34	
			<i>For Seal Class A, Add</i>	28.46	
			<i>For Work In Restricted Working Space, Add</i>	26.69	
23 31 13	13-0185	LF	18" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	106.78	56.03
			<i>For Seal Class B, Add</i>	14.01	
			<i>For Seal Class A, Add</i>	29.88	
			<i>For Work In Restricted Working Space, Add</i>	28.02	
23 31 13	13-0186	LF	20" x 20", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	101.71	53.37
			<i>For Seal Class B, Add</i>	13.34	
			<i>For Seal Class A, Add</i>	28.46	
			<i>For Work In Restricted Working Space, Add</i>	26.69	
23 31 13	13-0187	LF	20" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	106.78	56.03
			<i>For Seal Class B, Add</i>	14.01	
			<i>For Seal Class A, Add</i>	29.88	
			<i>For Work In Restricted Working Space, Add</i>	28.02	
23 31 13	13-0188	LF	20" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	111.86	58.70
			<i>For Seal Class B, Add</i>	14.68	
			<i>For Seal Class A, Add</i>	31.31	
			<i>For Work In Restricted Working Space, Add</i>	29.35	
23 31 13	13-0189	LF	22" x 22", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	111.86	58.70
			<i>For Seal Class B, Add</i>	14.68	
			<i>For Seal Class A, Add</i>	31.31	
			<i>For Work In Restricted Working Space, Add</i>	29.35	
23 31 13	13-0190	LF	22" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	116.96	61.37
			<i>For Seal Class B, Add</i>	15.34	
			<i>For Seal Class A, Add</i>	32.73	
			<i>For Work In Restricted Working Space, Add</i>	30.68	
23 31 13	13-0191	LF	24" x 24", 26 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	122.05	64.04
			<i>For Seal Class B, Add</i>	16.01	
			<i>For Seal Class A, Add</i>	34.16	
			<i>For Work In Restricted Working Space, Add</i>	32.02	
<b>23 31 13</b>	<b>13-0192</b>		<b>24 Gauge Galvanized Steel Metal Ductwork</b> <small>(23 31 13 13-0014)</small>		
23 31 13	13-0193	LF	4" x 4", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	30.86	16.56
			<i>For Seal Class B, Add</i>	4.14	
			<i>For Seal Class A, Add</i>	8.84	
			<i>For Work In Restricted Working Space, Add</i>	8.28	
23 31 13	13-0194	LF	4" x 6", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	38.59	20.70
			<i>For Seal Class B, Add</i>	5.18	
			<i>For Seal Class A, Add</i>	11.05	
			<i>For Work In Restricted Working Space, Add</i>	10.36	
23 31 13	13-0195	LF	4" x 8", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	46.29	24.84
			<i>For Seal Class B, Add</i>	6.21	
			<i>For Seal Class A, Add</i>	13.25	
			<i>For Work In Restricted Working Space, Add</i>	12.42	
23 31 13	13-0196	LF	4" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	54.01	28.99
			<i>For Seal Class B, Add</i>	7.25	
			<i>For Seal Class A, Add</i>	15.46	
			<i>For Work In Restricted Working Space, Add</i>	14.49	
23 31 13	13-0197	LF	4" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	61.72	33.14
			<i>For Seal Class B, Add</i>	8.28	
			<i>For Seal Class A, Add</i>	17.67	
			<i>For Work In Restricted Working Space, Add</i>	16.56	
23 31 13	13-0198	LF	4" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	69.44	37.27
			<i>For Seal Class B, Add</i>	9.32	
			<i>For Seal Class A, Add</i>	19.88	
			<i>For Work In Restricted Working Space, Add</i>	18.64	
23 31 13	13-0199	LF	4" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	77.16	41.41
			<i>For Seal Class B, Add</i>	10.35	
			<i>For Seal Class A, Add</i>	22.09	
			<i>For Work In Restricted Working Space, Add</i>	20.71	
23 31 13	13-0200	LF	6" x 6", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	46.29	24.84
			<i>For Seal Class B, Add</i>	6.21	
			<i>For Seal Class A, Add</i>	13.25	
			<i>For Work In Restricted Working Space, Add</i>	12.42	
23 31 13	13-0201	LF	6" x 8", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	54.01	28.99
			<i>For Seal Class B, Add</i>	7.25	
			<i>For Seal Class A, Add</i>	15.46	
			<i>For Work In Restricted Working Space, Add</i>	14.49	
23 31 13	13-0202	LF	6" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	61.72	33.14
			<i>For Seal Class B, Add</i>	8.28	
			<i>For Seal Class A, Add</i>	17.67	
			<i>For Work In Restricted Working Space, Add</i>	16.56	
23 31 13	13-0203	LF	6" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	69.44	37.27
			<i>For Seal Class B, Add</i>	9.32	
			<i>For Seal Class A, Add</i>	19.88	
			<i>For Work In Restricted Working Space, Add</i>	18.64	
23 31 13	13-0204	LF	6" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	77.16	41.41
			<i>For Seal Class B, Add</i>	10.35	
			<i>For Seal Class A, Add</i>	22.09	
			<i>For Work In Restricted Working Space, Add</i>	20.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0205 LF 6" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	84.87	45.55
<i>For Seal Class B, Add</i>	11.39	
<i>For Seal Class A, Add</i>	24.29	
<i>For Work In Restricted Working Space, Add</i>	22.78	
23 31 13 13-0206 LF 8" x 8", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	61.72	33.14
<i>For Seal Class B, Add</i>	8.28	
<i>For Seal Class A, Add</i>	17.67	
<i>For Work In Restricted Working Space, Add</i>	16.56	
23 31 13 13-0207 LF 8" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	69.44	37.27
<i>For Seal Class B, Add</i>	9.32	
<i>For Seal Class A, Add</i>	19.88	
<i>For Work In Restricted Working Space, Add</i>	18.64	
23 31 13 13-0208 LF 8" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	77.16	41.41
<i>For Seal Class B, Add</i>	10.35	
<i>For Seal Class A, Add</i>	22.09	
<i>For Work In Restricted Working Space, Add</i>	20.71	
23 31 13 13-0209 LF 8" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	84.87	45.55
<i>For Seal Class B, Add</i>	11.39	
<i>For Seal Class A, Add</i>	24.29	
<i>For Work In Restricted Working Space, Add</i>	22.78	
23 31 13 13-0210 LF 8" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	92.59	49.69
<i>For Seal Class B, Add</i>	12.42	
<i>For Seal Class A, Add</i>	26.51	
<i>For Work In Restricted Working Space, Add</i>	24.85	
23 31 13 13-0211 LF 8" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	100.31	53.84
<i>For Seal Class B, Add</i>	13.46	
<i>For Seal Class A, Add</i>	28.71	
<i>For Work In Restricted Working Space, Add</i>	26.92	
23 31 13 13-0212 LF 8" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	108.01	57.98
<i>For Seal Class B, Add</i>	14.49	
<i>For Seal Class A, Add</i>	30.92	
<i>For Work In Restricted Working Space, Add</i>	28.99	
23 31 13 13-0213 LF 8" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	115.73	62.12
<i>For Seal Class B, Add</i>	15.53	
<i>For Seal Class A, Add</i>	33.13	
<i>For Work In Restricted Working Space, Add</i>	31.06	
23 31 13 13-0214 LF 8" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	123.45	66.25
<i>For Seal Class B, Add</i>	16.56	
<i>For Seal Class A, Add</i>	35.34	
<i>For Work In Restricted Working Space, Add</i>	33.13	
23 31 13 13-0215 LF 10" x 10", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	77.16	41.41
<i>For Seal Class B, Add</i>	10.35	
<i>For Seal Class A, Add</i>	22.09	
<i>For Work In Restricted Working Space, Add</i>	20.71	
23 31 13 13-0216 LF 10" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	84.87	45.55
<i>For Seal Class B, Add</i>	11.39	
<i>For Seal Class A, Add</i>	24.29	
<i>For Work In Restricted Working Space, Add</i>	22.78	
23 31 13 13-0217 LF 10" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	92.59	49.69
<i>For Seal Class B, Add</i>	12.42	
<i>For Seal Class A, Add</i>	26.51	
<i>For Work In Restricted Working Space, Add</i>	24.85	
23 31 13 13-0218 LF 10" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	100.31	53.84
<i>For Seal Class B, Add</i>	13.46	
<i>For Seal Class A, Add</i>	28.71	
<i>For Work In Restricted Working Space, Add</i>	26.92	
23 31 13 13-0219 LF 10" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	108.01	57.98
<i>For Seal Class B, Add</i>	14.49	
<i>For Seal Class A, Add</i>	30.92	
<i>For Work In Restricted Working Space, Add</i>	28.99	
23 31 13 13-0220 LF 10" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	115.73	62.12
<i>For Seal Class B, Add</i>	15.53	
<i>For Seal Class A, Add</i>	33.13	
<i>For Work In Restricted Working Space, Add</i>	31.06	
23 31 13 13-0221 LF 10" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	123.45	66.25
<i>For Seal Class B, Add</i>	16.56	
<i>For Seal Class A, Add</i>	35.34	
<i>For Work In Restricted Working Space, Add</i>	33.13	
23 31 13 13-0222 LF 10" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	131.16	70.40
<i>For Seal Class B, Add</i>	17.60	
<i>For Seal Class A, Add</i>	37.55	
<i>For Work In Restricted Working Space, Add</i>	35.20	
23 31 13 13-0223 LF 10" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	138.88	74.53
<i>For Seal Class B, Add</i>	18.63	
<i>For Seal Class A, Add</i>	39.75	
<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13 13-0224 LF 10" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	146.60	78.68
<i>For Seal Class B, Add</i>	19.67	
<i>For Seal Class A, Add</i>	41.96	
<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13 13-0225 LF 10" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	154.31	82.83
<i>For Seal Class B, Add</i>	20.71	
<i>For Seal Class A, Add</i>	44.17	
<i>For Work In Restricted Working Space, Add</i>	41.41	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0226	LF	12" x 12", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	92.59	49.69
			<i>For Seal Class B, Add</i>	12.42	
			<i>For Seal Class A, Add</i>	26.51	
			<i>For Work In Restricted Working Space, Add</i>	24.85	
23 31 13	13-0227	LF	12" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	100.31	53.84
			<i>For Seal Class B, Add</i>	13.46	
			<i>For Seal Class A, Add</i>	28.71	
			<i>For Work In Restricted Working Space, Add</i>	26.92	
23 31 13	13-0228	LF	12" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	108.01	57.98
			<i>For Seal Class B, Add</i>	14.49	
			<i>For Seal Class A, Add</i>	30.92	
			<i>For Work In Restricted Working Space, Add</i>	28.99	
23 31 13	13-0229	LF	12" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	115.73	62.12
			<i>For Seal Class B, Add</i>	15.53	
			<i>For Seal Class A, Add</i>	33.13	
			<i>For Work In Restricted Working Space, Add</i>	31.06	
23 31 13	13-0230	LF	12" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	123.45	66.25
			<i>For Seal Class B, Add</i>	16.56	
			<i>For Seal Class A, Add</i>	35.34	
			<i>For Work In Restricted Working Space, Add</i>	33.13	
23 31 13	13-0231	LF	12" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	131.16	70.40
			<i>For Seal Class B, Add</i>	17.60	
			<i>For Seal Class A, Add</i>	37.55	
			<i>For Work In Restricted Working Space, Add</i>	35.20	
23 31 13	13-0232	LF	12" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	138.88	74.53
			<i>For Seal Class B, Add</i>	18.63	
			<i>For Seal Class A, Add</i>	39.75	
			<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13	13-0233	LF	12" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	146.60	78.68
			<i>For Seal Class B, Add</i>	19.67	
			<i>For Seal Class A, Add</i>	41.96	
			<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13	13-0234	LF	12" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	154.31	82.83
			<i>For Seal Class B, Add</i>	20.71	
			<i>For Seal Class A, Add</i>	44.17	
			<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13	13-0235	LF	12" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	162.02	86.97
			<i>For Seal Class B, Add</i>	21.74	
			<i>For Seal Class A, Add</i>	46.38	
			<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13	13-0236	LF	14" x 14", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	108.01	57.98
			<i>For Seal Class B, Add</i>	14.49	
			<i>For Seal Class A, Add</i>	30.92	
			<i>For Work In Restricted Working Space, Add</i>	28.99	
23 31 13	13-0237	LF	14" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	115.73	62.12
			<i>For Seal Class B, Add</i>	15.53	
			<i>For Seal Class A, Add</i>	33.13	
			<i>For Work In Restricted Working Space, Add</i>	31.06	
23 31 13	13-0238	LF	14" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	123.45	66.25
			<i>For Seal Class B, Add</i>	16.56	
			<i>For Seal Class A, Add</i>	35.34	
			<i>For Work In Restricted Working Space, Add</i>	33.13	
23 31 13	13-0239	LF	14" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	131.16	70.40
			<i>For Seal Class B, Add</i>	17.60	
			<i>For Seal Class A, Add</i>	37.55	
			<i>For Work In Restricted Working Space, Add</i>	35.20	
23 31 13	13-0240	LF	14" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	138.88	74.53
			<i>For Seal Class B, Add</i>	18.63	
			<i>For Seal Class A, Add</i>	39.75	
			<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13	13-0241	LF	14" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	146.60	78.68
			<i>For Seal Class B, Add</i>	19.67	
			<i>For Seal Class A, Add</i>	41.96	
			<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13	13-0242	LF	14" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	154.31	82.83
			<i>For Seal Class B, Add</i>	20.71	
			<i>For Seal Class A, Add</i>	44.17	
			<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13	13-0243	LF	14" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	162.02	86.97
			<i>For Seal Class B, Add</i>	21.74	
			<i>For Seal Class A, Add</i>	46.38	
			<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13	13-0244	LF	14" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	169.73	91.10
			<i>For Seal Class B, Add</i>	22.77	
			<i>For Seal Class A, Add</i>	48.59	
			<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13	13-0245	LF	16" x 16", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	123.45	66.25
			<i>For Seal Class B, Add</i>	16.56	
			<i>For Seal Class A, Add</i>	35.34	
			<i>For Work In Restricted Working Space, Add</i>	33.13	
23 31 13	13-0246	LF	16" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	131.16	70.40
			<i>For Seal Class B, Add</i>	17.60	
			<i>For Seal Class A, Add</i>	37.55	
			<i>For Work In Restricted Working Space, Add</i>	35.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0247 LF 16" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	138.88	74.53
<i>For Seal Class B, Add</i>	18.63	
<i>For Seal Class A, Add</i>	39.75	
<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13 13-0248 LF 16" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	146.60	78.68
<i>For Seal Class B, Add</i>	19.67	
<i>For Seal Class A, Add</i>	41.96	
<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13 13-0249 LF 16" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	154.31	82.83
<i>For Seal Class B, Add</i>	20.71	
<i>For Seal Class A, Add</i>	44.17	
<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13 13-0250 LF 16" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	162.02	86.97
<i>For Seal Class B, Add</i>	21.74	
<i>For Seal Class A, Add</i>	46.38	
<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13 13-0251 LF 16" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	169.73	91.10
<i>For Seal Class B, Add</i>	22.77	
<i>For Seal Class A, Add</i>	48.59	
<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13 13-0252 LF 16" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	177.46	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.62	
23 31 13 13-0253 LF 18" x 18", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	138.88	74.53
<i>For Seal Class B, Add</i>	18.63	
<i>For Seal Class A, Add</i>	39.75	
<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13 13-0254 LF 18" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	146.60	78.68
<i>For Seal Class B, Add</i>	19.67	
<i>For Seal Class A, Add</i>	41.96	
<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13 13-0255 LF 18" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	154.31	82.83
<i>For Seal Class B, Add</i>	20.71	
<i>For Seal Class A, Add</i>	44.17	
<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13 13-0256 LF 18" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	162.02	86.97
<i>For Seal Class B, Add</i>	21.74	
<i>For Seal Class A, Add</i>	46.38	
<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13 13-0257 LF 18" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	169.73	91.10
<i>For Seal Class B, Add</i>	22.77	
<i>For Seal Class A, Add</i>	48.59	
<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13 13-0258 LF 18" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	177.46	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.62	
23 31 13 13-0259 LF 18" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.18	99.39
<i>For Seal Class B, Add</i>	24.85	
<i>For Seal Class A, Add</i>	53.01	
<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13 13-0260 LF 20" x 20", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	154.31	82.83
<i>For Seal Class B, Add</i>	20.71	
<i>For Seal Class A, Add</i>	44.17	
<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13 13-0261 LF 20" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	162.02	86.97
<i>For Seal Class B, Add</i>	21.74	
<i>For Seal Class A, Add</i>	46.38	
<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13 13-0262 LF 20" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	169.73	91.10
<i>For Seal Class B, Add</i>	22.77	
<i>For Seal Class A, Add</i>	48.59	
<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13 13-0263 LF 20" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	177.46	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.62	
23 31 13 13-0264 LF 20" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.18	99.39
<i>For Seal Class B, Add</i>	24.85	
<i>For Seal Class A, Add</i>	53.01	
<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13 13-0265 LF 20" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	192.88	103.52
<i>For Seal Class B, Add</i>	25.88	
<i>For Seal Class A, Add</i>	55.21	
<i>For Work In Restricted Working Space, Add</i>	51.76	
23 31 13 13-0266 LF 22" x 22", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	169.73	91.10
<i>For Seal Class B, Add</i>	22.77	
<i>For Seal Class A, Add</i>	48.59	
<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13 13-0267 LF 22" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	177.46	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.62	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0268	LF	22" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.18	99.39
		<i>For Seal Class B, Add</i>	24.85	
		<i>For Seal Class A, Add</i>	53.01	
		<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13 13-0269	LF	22" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	192.88	103.52
		<i>For Seal Class B, Add</i>	25.88	
		<i>For Seal Class A, Add</i>	55.21	
		<i>For Work In Restricted Working Space, Add</i>	51.76	
23 31 13 13-0270	LF	22" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	200.61	107.67
		<i>For Seal Class B, Add</i>	26.92	
		<i>For Seal Class A, Add</i>	57.42	
		<i>For Work In Restricted Working Space, Add</i>	53.84	
23 31 13 13-0271	LF	24" x 24", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.18	99.39
		<i>For Seal Class B, Add</i>	24.85	
		<i>For Seal Class A, Add</i>	53.01	
		<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13 13-0272	LF	24" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	192.88	103.52
		<i>For Seal Class B, Add</i>	25.88	
		<i>For Seal Class A, Add</i>	55.21	
		<i>For Work In Restricted Working Space, Add</i>	51.76	
23 31 13 13-0273	LF	24" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	200.61	107.67
		<i>For Seal Class B, Add</i>	26.92	
		<i>For Seal Class A, Add</i>	57.42	
		<i>For Work In Restricted Working Space, Add</i>	53.84	
23 31 13 13-0274	LF	24" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	208.32	111.82
		<i>For Seal Class B, Add</i>	27.95	
		<i>For Seal Class A, Add</i>	59.63	
		<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13 13-0275	LF	26" x 26", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	200.61	107.67
		<i>For Seal Class B, Add</i>	26.92	
		<i>For Seal Class A, Add</i>	57.42	
		<i>For Work In Restricted Working Space, Add</i>	53.84	
23 31 13 13-0276	LF	26" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	208.32	111.82
		<i>For Seal Class B, Add</i>	27.95	
		<i>For Seal Class A, Add</i>	59.63	
		<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13 13-0277	LF	26" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	216.02	115.94
		<i>For Seal Class B, Add</i>	28.99	
		<i>For Seal Class A, Add</i>	61.84	
		<i>For Work In Restricted Working Space, Add</i>	57.97	
23 31 13 13-0278	LF	28" x 28", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	216.02	115.94
		<i>For Seal Class B, Add</i>	28.99	
		<i>For Seal Class A, Add</i>	61.84	
		<i>For Work In Restricted Working Space, Add</i>	57.97	
23 31 13 13-0279	LF	28" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	223.74	120.09
		<i>For Seal Class B, Add</i>	30.02	
		<i>For Seal Class A, Add</i>	64.04	
		<i>For Work In Restricted Working Space, Add</i>	60.04	
23 31 13 13-0280	LF	30" x 30", 24 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	231.47	124.23
		<i>For Seal Class B, Add</i>	31.06	
		<i>For Seal Class A, Add</i>	66.26	
		<i>For Work In Restricted Working Space, Add</i>	62.12	
<b>23 31 13 13-0281</b>		<b>22 Gauge Galvanized Steel Metal Ductwork</b> (23 31 13 13-0014)		
23 31 13 13-0282	LF	4" x 4", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	31.57	16.56
		<i>For Seal Class B, Add</i>	4.14	
		<i>For Seal Class A, Add</i>	8.84	
		<i>For Work In Restricted Working Space, Add</i>	8.28	
23 31 13 13-0283	LF	4" x 6", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	39.47	20.70
		<i>For Seal Class B, Add</i>	5.18	
		<i>For Seal Class A, Add</i>	11.05	
		<i>For Work In Restricted Working Space, Add</i>	10.36	
23 31 13 13-0284	LF	4" x 8", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	47.35	24.84
		<i>For Seal Class B, Add</i>	6.21	
		<i>For Seal Class A, Add</i>	13.25	
		<i>For Work In Restricted Working Space, Add</i>	12.42	
23 31 13 13-0285	LF	4" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.24	28.99
		<i>For Seal Class B, Add</i>	7.25	
		<i>For Seal Class A, Add</i>	15.46	
		<i>For Work In Restricted Working Space, Add</i>	14.49	
23 31 13 13-0286	LF	4" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	63.13	33.14
		<i>For Seal Class B, Add</i>	8.28	
		<i>For Seal Class A, Add</i>	17.67	
		<i>For Work In Restricted Working Space, Add</i>	16.56	
23 31 13 13-0287	LF	4" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	71.03	37.27
		<i>For Seal Class B, Add</i>	9.32	
		<i>For Seal Class A, Add</i>	19.88	
		<i>For Work In Restricted Working Space, Add</i>	18.64	
23 31 13 13-0288	LF	4" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	78.92	41.41
		<i>For Seal Class B, Add</i>	10.35	
		<i>For Seal Class A, Add</i>	22.09	
		<i>For Work In Restricted Working Space, Add</i>	20.71	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0289 LF 6" x 6", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	47.35	24.84
For Seal Class B, Add	6.21	
For Seal Class A, Add	13.25	
For Work In Restricted Working Space, Add	12.42	
23 31 13 13-0290 LF 6" x 8", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.24	28.99
For Seal Class B, Add	7.25	
For Seal Class A, Add	15.46	
For Work In Restricted Working Space, Add	14.49	
23 31 13 13-0291 LF 6" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	63.13	33.14
For Seal Class B, Add	8.28	
For Seal Class A, Add	17.67	
For Work In Restricted Working Space, Add	16.56	
23 31 13 13-0292 LF 6" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	71.03	37.27
For Seal Class B, Add	9.32	
For Seal Class A, Add	19.88	
For Work In Restricted Working Space, Add	18.64	
23 31 13 13-0293 LF 6" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	78.92	41.41
For Seal Class B, Add	10.35	
For Seal Class A, Add	22.09	
For Work In Restricted Working Space, Add	20.71	
23 31 13 13-0294 LF 6" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	86.81	45.55
For Seal Class B, Add	11.39	
For Seal Class A, Add	24.29	
For Work In Restricted Working Space, Add	22.78	
23 31 13 13-0295 LF 8" x 8", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	63.13	33.14
For Seal Class B, Add	8.28	
For Seal Class A, Add	17.67	
For Work In Restricted Working Space, Add	16.56	
23 31 13 13-0296 LF 8" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	71.03	37.27
For Seal Class B, Add	9.32	
For Seal Class A, Add	19.88	
For Work In Restricted Working Space, Add	18.64	
23 31 13 13-0297 LF 8" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	78.92	41.41
For Seal Class B, Add	10.35	
For Seal Class A, Add	22.09	
For Work In Restricted Working Space, Add	20.71	
23 31 13 13-0298 LF 8" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	86.81	45.55
For Seal Class B, Add	11.39	
For Seal Class A, Add	24.29	
For Work In Restricted Working Space, Add	22.78	
23 31 13 13-0299 LF 8" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	94.71	49.69
For Seal Class B, Add	12.42	
For Seal Class A, Add	26.51	
For Work In Restricted Working Space, Add	24.85	
23 31 13 13-0300 LF 8" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	102.60	53.84
For Seal Class B, Add	13.46	
For Seal Class A, Add	28.71	
For Work In Restricted Working Space, Add	26.92	
23 31 13 13-0301 LF 8" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	110.48	57.98
For Seal Class B, Add	14.49	
For Seal Class A, Add	30.92	
For Work In Restricted Working Space, Add	28.99	
23 31 13 13-0302 LF 8" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	118.37	62.12
For Seal Class B, Add	15.53	
For Seal Class A, Add	33.13	
For Work In Restricted Working Space, Add	31.06	
23 31 13 13-0303 LF 8" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	126.27	66.25
For Seal Class B, Add	16.56	
For Seal Class A, Add	35.34	
For Work In Restricted Working Space, Add	33.13	
23 31 13 13-0304 LF 10" x 10", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	78.92	41.41
For Seal Class B, Add	10.35	
For Seal Class A, Add	22.09	
For Work In Restricted Working Space, Add	20.71	
23 31 13 13-0305 LF 10" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	86.81	45.55
For Seal Class B, Add	11.39	
For Seal Class A, Add	24.29	
For Work In Restricted Working Space, Add	22.78	
23 31 13 13-0306 LF 10" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	94.71	49.69
For Seal Class B, Add	12.42	
For Seal Class A, Add	26.51	
For Work In Restricted Working Space, Add	24.85	
23 31 13 13-0307 LF 10" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	102.60	53.84
For Seal Class B, Add	13.46	
For Seal Class A, Add	28.71	
For Work In Restricted Working Space, Add	26.92	
23 31 13 13-0308 LF 10" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	110.48	57.98
For Seal Class B, Add	14.49	
For Seal Class A, Add	30.92	
For Work In Restricted Working Space, Add	28.99	
23 31 13 13-0309 LF 10" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	118.37	62.12
For Seal Class B, Add	15.53	
For Seal Class A, Add	33.13	
For Work In Restricted Working Space, Add	31.06	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0310	LF	10" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	126.27	66.25
			<i>For Seal Class B, Add</i>	16.56	
			<i>For Seal Class A, Add</i>	35.34	
			<i>For Work In Restricted Working Space, Add</i>	33.13	
23 31 13	13-0311	LF	10" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	134.15	70.40
			<i>For Seal Class B, Add</i>	17.60	
			<i>For Seal Class A, Add</i>	37.55	
			<i>For Work In Restricted Working Space, Add</i>	35.20	
23 31 13	13-0312	LF	10" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	142.04	74.53
			<i>For Seal Class B, Add</i>	18.63	
			<i>For Seal Class A, Add</i>	39.75	
			<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13	13-0313	LF	10" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	149.94	78.68
			<i>For Seal Class B, Add</i>	19.67	
			<i>For Seal Class A, Add</i>	41.96	
			<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13	13-0314	LF	10" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	157.83	82.83
			<i>For Seal Class B, Add</i>	20.71	
			<i>For Seal Class A, Add</i>	44.17	
			<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13	13-0315	LF	10" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	165.71	86.97
			<i>For Seal Class B, Add</i>	21.74	
			<i>For Seal Class A, Add</i>	46.38	
			<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13	13-0316	LF	12" x 12", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	94.71	49.69
			<i>For Seal Class B, Add</i>	12.42	
			<i>For Seal Class A, Add</i>	26.51	
			<i>For Work In Restricted Working Space, Add</i>	24.85	
23 31 13	13-0317	LF	12" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	102.60	53.84
			<i>For Seal Class B, Add</i>	13.46	
			<i>For Seal Class A, Add</i>	28.71	
			<i>For Work In Restricted Working Space, Add</i>	26.92	
23 31 13	13-0318	LF	12" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	110.48	57.98
			<i>For Seal Class B, Add</i>	14.49	
			<i>For Seal Class A, Add</i>	30.92	
			<i>For Work In Restricted Working Space, Add</i>	28.99	
23 31 13	13-0319	LF	12" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	118.37	62.12
			<i>For Seal Class B, Add</i>	15.53	
			<i>For Seal Class A, Add</i>	33.13	
			<i>For Work In Restricted Working Space, Add</i>	31.06	
23 31 13	13-0320	LF	12" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	126.27	66.25
			<i>For Seal Class B, Add</i>	16.56	
			<i>For Seal Class A, Add</i>	35.34	
			<i>For Work In Restricted Working Space, Add</i>	33.13	
23 31 13	13-0321	LF	12" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	134.15	70.40
			<i>For Seal Class B, Add</i>	17.60	
			<i>For Seal Class A, Add</i>	37.55	
			<i>For Work In Restricted Working Space, Add</i>	35.20	
23 31 13	13-0322	LF	12" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	142.04	74.53
			<i>For Seal Class B, Add</i>	18.63	
			<i>For Seal Class A, Add</i>	39.75	
			<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13	13-0323	LF	12" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	149.94	78.68
			<i>For Seal Class B, Add</i>	19.67	
			<i>For Seal Class A, Add</i>	41.96	
			<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13	13-0324	LF	12" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	157.83	82.83
			<i>For Seal Class B, Add</i>	20.71	
			<i>For Seal Class A, Add</i>	44.17	
			<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13	13-0325	LF	12" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	165.71	86.97
			<i>For Seal Class B, Add</i>	21.74	
			<i>For Seal Class A, Add</i>	46.38	
			<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13	13-0326	LF	12" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	173.60	91.10
			<i>For Seal Class B, Add</i>	22.77	
			<i>For Seal Class A, Add</i>	48.59	
			<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13	13-0327	LF	12" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.50	95.24
			<i>For Seal Class B, Add</i>	23.81	
			<i>For Seal Class A, Add</i>	50.80	
			<i>For Work In Restricted Working Space, Add</i>	47.62	
23 31 13	13-0328	LF	12" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	189.40	99.39
			<i>For Seal Class B, Add</i>	24.85	
			<i>For Seal Class A, Add</i>	53.01	
			<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13	13-0329	LF	14" x 14", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	110.48	57.98
			<i>For Seal Class B, Add</i>	14.49	
			<i>For Seal Class A, Add</i>	30.92	
			<i>For Work In Restricted Working Space, Add</i>	28.99	
23 31 13	13-0330	LF	14" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	118.37	62.12
			<i>For Seal Class B, Add</i>	15.53	
			<i>For Seal Class A, Add</i>	33.13	
			<i>For Work In Restricted Working Space, Add</i>	31.06	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0331 LF 14" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	126.27	66.25
<i>For Seal Class B, Add</i>	16.56	
<i>For Seal Class A, Add</i>	35.34	
<i>For Work In Restricted Working Space, Add</i>	33.13	
23 31 13 13-0332 LF 14" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	134.15	70.40
<i>For Seal Class B, Add</i>	17.60	
<i>For Seal Class A, Add</i>	37.55	
<i>For Work In Restricted Working Space, Add</i>	35.20	
23 31 13 13-0333 LF 14" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	142.04	74.53
<i>For Seal Class B, Add</i>	18.63	
<i>For Seal Class A, Add</i>	39.75	
<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13 13-0334 LF 14" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	149.94	78.68
<i>For Seal Class B, Add</i>	19.67	
<i>For Seal Class A, Add</i>	41.96	
<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13 13-0335 LF 14" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	157.83	82.83
<i>For Seal Class B, Add</i>	20.71	
<i>For Seal Class A, Add</i>	44.17	
<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13 13-0336 LF 14" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	165.71	86.97
<i>For Seal Class B, Add</i>	21.74	
<i>For Seal Class A, Add</i>	46.38	
<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13 13-0337 LF 14" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	173.60	91.10
<i>For Seal Class B, Add</i>	22.77	
<i>For Seal Class A, Add</i>	48.59	
<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13 13-0338 LF 14" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.50	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.62	
23 31 13 13-0339 LF 14" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	189.40	99.39
<i>For Seal Class B, Add</i>	24.85	
<i>For Seal Class A, Add</i>	53.01	
<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13 13-0340 LF 14" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	197.28	103.52
<i>For Seal Class B, Add</i>	25.88	
<i>For Seal Class A, Add</i>	55.21	
<i>For Work In Restricted Working Space, Add</i>	51.76	
23 31 13 13-0341 LF 16" x 16", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	126.27	66.25
<i>For Seal Class B, Add</i>	16.56	
<i>For Seal Class A, Add</i>	35.34	
<i>For Work In Restricted Working Space, Add</i>	33.13	
23 31 13 13-0342 LF 16" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	134.15	70.40
<i>For Seal Class B, Add</i>	17.60	
<i>For Seal Class A, Add</i>	37.55	
<i>For Work In Restricted Working Space, Add</i>	35.20	
23 31 13 13-0343 LF 16" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	142.04	74.53
<i>For Seal Class B, Add</i>	18.63	
<i>For Seal Class A, Add</i>	39.75	
<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13 13-0344 LF 16" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	149.94	78.68
<i>For Seal Class B, Add</i>	19.67	
<i>For Seal Class A, Add</i>	41.96	
<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13 13-0345 LF 16" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	157.83	82.83
<i>For Seal Class B, Add</i>	20.71	
<i>For Seal Class A, Add</i>	44.17	
<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13 13-0346 LF 16" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	165.71	86.97
<i>For Seal Class B, Add</i>	21.74	
<i>For Seal Class A, Add</i>	46.38	
<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13 13-0347 LF 16" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	173.60	91.10
<i>For Seal Class B, Add</i>	22.77	
<i>For Seal Class A, Add</i>	48.59	
<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13 13-0348 LF 16" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.50	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.62	
23 31 13 13-0349 LF 16" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	189.40	99.39
<i>For Seal Class B, Add</i>	24.85	
<i>For Seal Class A, Add</i>	53.01	
<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13 13-0350 LF 16" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	197.28	103.52
<i>For Seal Class B, Add</i>	25.88	
<i>For Seal Class A, Add</i>	55.21	
<i>For Work In Restricted Working Space, Add</i>	51.76	
23 31 13 13-0351 LF 16" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.18	107.67
<i>For Seal Class B, Add</i>	26.92	
<i>For Seal Class A, Add</i>	57.42	
<i>For Work In Restricted Working Space, Add</i>	53.84	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0352	LF	16" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.07	111.82
			<i>For Seal Class B, Add</i>	27.95	
			<i>For Seal Class A, Add</i>	59.63	
			<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13	13-0353	LF	16" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	220.95	115.94
			<i>For Seal Class B, Add</i>	28.99	
			<i>For Seal Class A, Add</i>	61.84	
			<i>For Work In Restricted Working Space, Add</i>	57.97	
23 31 13	13-0354	LF	16" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	228.84	120.09
			<i>For Seal Class B, Add</i>	30.02	
			<i>For Seal Class A, Add</i>	64.04	
			<i>For Work In Restricted Working Space, Add</i>	60.04	
23 31 13	13-0355	LF	16" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	236.75	124.23
			<i>For Seal Class B, Add</i>	31.06	
			<i>For Seal Class A, Add</i>	66.26	
			<i>For Work In Restricted Working Space, Add</i>	62.12	
23 31 13	13-0356	LF	18" x 18", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	142.04	74.53
			<i>For Seal Class B, Add</i>	18.63	
			<i>For Seal Class A, Add</i>	39.75	
			<i>For Work In Restricted Working Space, Add</i>	37.27	
23 31 13	13-0357	LF	18" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	149.94	78.68
			<i>For Seal Class B, Add</i>	19.67	
			<i>For Seal Class A, Add</i>	41.96	
			<i>For Work In Restricted Working Space, Add</i>	39.34	
23 31 13	13-0358	LF	18" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	157.83	82.83
			<i>For Seal Class B, Add</i>	20.71	
			<i>For Seal Class A, Add</i>	44.17	
			<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13	13-0359	LF	18" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	165.71	86.97
			<i>For Seal Class B, Add</i>	21.74	
			<i>For Seal Class A, Add</i>	46.38	
			<i>For Work In Restricted Working Space, Add</i>	43.48	
23 31 13	13-0360	LF	18" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	173.60	91.10
			<i>For Seal Class B, Add</i>	22.77	
			<i>For Seal Class A, Add</i>	48.59	
			<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13	13-0361	LF	18" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.50	95.24
			<i>For Seal Class B, Add</i>	23.81	
			<i>For Seal Class A, Add</i>	50.80	
			<i>For Work In Restricted Working Space, Add</i>	47.62	
23 31 13	13-0362	LF	18" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	189.40	99.39
			<i>For Seal Class B, Add</i>	24.85	
			<i>For Seal Class A, Add</i>	53.01	
			<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13	13-0363	LF	18" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	197.28	103.52
			<i>For Seal Class B, Add</i>	25.88	
			<i>For Seal Class A, Add</i>	55.21	
			<i>For Work In Restricted Working Space, Add</i>	51.76	
23 31 13	13-0364	LF	18" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.18	107.67
			<i>For Seal Class B, Add</i>	26.92	
			<i>For Seal Class A, Add</i>	57.42	
			<i>For Work In Restricted Working Space, Add</i>	53.84	
23 31 13	13-0365	LF	18" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.07	111.82
			<i>For Seal Class B, Add</i>	27.95	
			<i>For Seal Class A, Add</i>	59.63	
			<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13	13-0366	LF	18" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	220.95	115.94
			<i>For Seal Class B, Add</i>	28.99	
			<i>For Seal Class A, Add</i>	61.84	
			<i>For Work In Restricted Working Space, Add</i>	57.97	
23 31 13	13-0367	LF	18" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	228.84	120.09
			<i>For Seal Class B, Add</i>	30.02	
			<i>For Seal Class A, Add</i>	64.04	
			<i>For Work In Restricted Working Space, Add</i>	60.04	
23 31 13	13-0368	LF	18" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	236.75	124.23
			<i>For Seal Class B, Add</i>	31.06	
			<i>For Seal Class A, Add</i>	66.26	
			<i>For Work In Restricted Working Space, Add</i>	62.12	
23 31 13	13-0369	LF	18" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	244.64	128.37
			<i>For Seal Class B, Add</i>	32.09	
			<i>For Seal Class A, Add</i>	68.47	
			<i>For Work In Restricted Working Space, Add</i>	64.19	
23 31 13	13-0370	LF	18" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	252.52	132.51
			<i>For Seal Class B, Add</i>	33.13	
			<i>For Seal Class A, Add</i>	70.67	
			<i>For Work In Restricted Working Space, Add</i>	66.26	
23 31 13	13-0371	LF	20" x 20", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	157.83	82.83
			<i>For Seal Class B, Add</i>	20.71	
			<i>For Seal Class A, Add</i>	44.17	
			<i>For Work In Restricted Working Space, Add</i>	41.41	
23 31 13	13-0372	LF	20" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	165.71	86.97
			<i>For Seal Class B, Add</i>	21.74	
			<i>For Seal Class A, Add</i>	46.38	
			<i>For Work In Restricted Working Space, Add</i>	43.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0373 LF 20" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	173.60	91.10
<i>For Seal Class B, Add</i>	22.77	
<i>For Seal Class A, Add</i>	48.59	
<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13 13-0374 LF 20" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.50	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.62	
23 31 13 13-0375 LF 20" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	189.40	99.39
<i>For Seal Class B, Add</i>	24.85	
<i>For Seal Class A, Add</i>	53.01	
<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13 13-0376 LF 20" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	197.28	103.52
<i>For Seal Class B, Add</i>	25.88	
<i>For Seal Class A, Add</i>	55.21	
<i>For Work In Restricted Working Space, Add</i>	51.76	
23 31 13 13-0377 LF 20" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.18	107.67
<i>For Seal Class B, Add</i>	26.92	
<i>For Seal Class A, Add</i>	57.42	
<i>For Work In Restricted Working Space, Add</i>	53.84	
23 31 13 13-0378 LF 20" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.07	111.82
<i>For Seal Class B, Add</i>	27.95	
<i>For Seal Class A, Add</i>	59.63	
<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13 13-0379 LF 20" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	220.95	115.94
<i>For Seal Class B, Add</i>	28.99	
<i>For Seal Class A, Add</i>	61.84	
<i>For Work In Restricted Working Space, Add</i>	57.97	
23 31 13 13-0380 LF 20" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	228.84	120.09
<i>For Seal Class B, Add</i>	30.02	
<i>For Seal Class A, Add</i>	64.04	
<i>For Work In Restricted Working Space, Add</i>	60.04	
23 31 13 13-0381 LF 20" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	236.75	124.23
<i>For Seal Class B, Add</i>	31.06	
<i>For Seal Class A, Add</i>	66.26	
<i>For Work In Restricted Working Space, Add</i>	62.12	
23 31 13 13-0382 LF 20" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	244.64	128.37
<i>For Seal Class B, Add</i>	32.09	
<i>For Seal Class A, Add</i>	68.47	
<i>For Work In Restricted Working Space, Add</i>	64.19	
23 31 13 13-0383 LF 20" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	252.52	132.51
<i>For Seal Class B, Add</i>	33.13	
<i>For Seal Class A, Add</i>	70.67	
<i>For Work In Restricted Working Space, Add</i>	66.26	
23 31 13 13-0384 LF 20" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.42	136.66
<i>For Seal Class B, Add</i>	34.16	
<i>For Seal Class A, Add</i>	72.88	
<i>For Work In Restricted Working Space, Add</i>	68.33	
23 31 13 13-0385 LF 20" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	268.31	140.81
<i>For Seal Class B, Add</i>	35.20	
<i>For Seal Class A, Add</i>	75.09	
<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31 13 13-0386 LF 22" x 22", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	173.60	91.10
<i>For Seal Class B, Add</i>	22.77	
<i>For Seal Class A, Add</i>	48.59	
<i>For Work In Restricted Working Space, Add</i>	45.55	
23 31 13 13-0387 LF 22" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.50	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.62	
23 31 13 13-0388 LF 22" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	189.40	99.39
<i>For Seal Class B, Add</i>	24.85	
<i>For Seal Class A, Add</i>	53.01	
<i>For Work In Restricted Working Space, Add</i>	49.70	
23 31 13 13-0389 LF 22" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	197.28	103.52
<i>For Seal Class B, Add</i>	25.88	
<i>For Seal Class A, Add</i>	55.21	
<i>For Work In Restricted Working Space, Add</i>	51.76	
23 31 13 13-0390 LF 22" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.18	107.67
<i>For Seal Class B, Add</i>	26.92	
<i>For Seal Class A, Add</i>	57.42	
<i>For Work In Restricted Working Space, Add</i>	53.84	
23 31 13 13-0391 LF 22" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.07	111.82
<i>For Seal Class B, Add</i>	27.95	
<i>For Seal Class A, Add</i>	59.63	
<i>For Work In Restricted Working Space, Add</i>	55.91	
23 31 13 13-0392 LF 22" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	220.95	115.94
<i>For Seal Class B, Add</i>	28.99	
<i>For Seal Class A, Add</i>	61.84	
<i>For Work In Restricted Working Space, Add</i>	57.97	
23 31 13 13-0393 LF 22" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	228.84	120.09
<i>For Seal Class B, Add</i>	30.02	
<i>For Seal Class A, Add</i>	64.04	
<i>For Work In Restricted Working Space, Add</i>	60.04	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0394 LF 22" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	236.75	124.23
For Seal Class B, Add	31.06	
For Seal Class A, Add	66.26	
For Work In Restricted Working Space, Add	62.12	
23 31 13 13-0395 LF 22" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	244.64	128.37
For Seal Class B, Add	32.09	
For Seal Class A, Add	68.47	
For Work In Restricted Working Space, Add	64.19	
23 31 13 13-0396 LF 22" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	252.52	132.51
For Seal Class B, Add	33.13	
For Seal Class A, Add	70.67	
For Work In Restricted Working Space, Add	66.26	
23 31 13 13-0397 LF 22" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.42	136.66
For Seal Class B, Add	34.16	
For Seal Class A, Add	72.88	
For Work In Restricted Working Space, Add	68.33	
23 31 13 13-0398 LF 22" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	268.31	140.81
For Seal Class B, Add	35.20	
For Seal Class A, Add	75.09	
For Work In Restricted Working Space, Add	70.40	
23 31 13 13-0399 LF 22" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	276.20	144.93
For Seal Class B, Add	36.23	
For Seal Class A, Add	77.30	
For Work In Restricted Working Space, Add	72.47	
23 31 13 13-0400 LF 24" x 24", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	189.40	99.39
For Seal Class B, Add	24.85	
For Seal Class A, Add	53.01	
For Work In Restricted Working Space, Add	49.70	
23 31 13 13-0401 LF 24" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	197.28	103.52
For Seal Class B, Add	25.88	
For Seal Class A, Add	55.21	
For Work In Restricted Working Space, Add	51.76	
23 31 13 13-0402 LF 24" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.18	107.67
For Seal Class B, Add	26.92	
For Seal Class A, Add	57.42	
For Work In Restricted Working Space, Add	53.84	
23 31 13 13-0403 LF 24" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.07	111.82
For Seal Class B, Add	27.95	
For Seal Class A, Add	59.63	
For Work In Restricted Working Space, Add	55.91	
23 31 13 13-0404 LF 24" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	220.95	115.94
For Seal Class B, Add	28.99	
For Seal Class A, Add	61.84	
For Work In Restricted Working Space, Add	57.97	
23 31 13 13-0405 LF 24" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	228.84	120.09
For Seal Class B, Add	30.02	
For Seal Class A, Add	64.04	
For Work In Restricted Working Space, Add	60.04	
23 31 13 13-0406 LF 24" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	236.75	124.23
For Seal Class B, Add	31.06	
For Seal Class A, Add	66.26	
For Work In Restricted Working Space, Add	62.12	
23 31 13 13-0407 LF 24" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	244.64	128.37
For Seal Class B, Add	32.09	
For Seal Class A, Add	68.47	
For Work In Restricted Working Space, Add	64.19	
23 31 13 13-0408 LF 24" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	252.52	132.51
For Seal Class B, Add	33.13	
For Seal Class A, Add	70.67	
For Work In Restricted Working Space, Add	66.26	
23 31 13 13-0409 LF 24" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.42	136.66
For Seal Class B, Add	34.16	
For Seal Class A, Add	72.88	
For Work In Restricted Working Space, Add	68.33	
23 31 13 13-0410 LF 24" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	268.31	140.81
For Seal Class B, Add	35.20	
For Seal Class A, Add	75.09	
For Work In Restricted Working Space, Add	70.40	
23 31 13 13-0411 LF 24" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	276.20	144.93
For Seal Class B, Add	36.23	
For Seal Class A, Add	77.30	
For Work In Restricted Working Space, Add	72.47	
23 31 13 13-0412 LF 24" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	284.09	149.08
For Seal Class B, Add	37.27	
For Seal Class A, Add	79.51	
For Work In Restricted Working Space, Add	74.54	
23 31 13 13-0413 LF 26" x 26", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.18	107.67
For Seal Class B, Add	26.92	
For Seal Class A, Add	57.42	
For Work In Restricted Working Space, Add	53.84	
23 31 13 13-0414 LF 26" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.07	111.82
For Seal Class B, Add	27.95	
For Seal Class A, Add	59.63	
For Work In Restricted Working Space, Add	55.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0415 LF 26" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	220.95	115.94
<i>For Seal Class B, Add</i>	28.99	
<i>For Seal Class A, Add</i>	61.84	
<i>For Work In Restricted Working Space, Add</i>	57.97	
23 31 13 13-0416 LF 26" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	228.84	120.09
<i>For Seal Class B, Add</i>	30.02	
<i>For Seal Class A, Add</i>	64.04	
<i>For Work In Restricted Working Space, Add</i>	60.04	
23 31 13 13-0417 LF 26" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	236.75	124.23
<i>For Seal Class B, Add</i>	31.06	
<i>For Seal Class A, Add</i>	66.26	
<i>For Work In Restricted Working Space, Add</i>	62.12	
23 31 13 13-0418 LF 26" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	244.64	128.37
<i>For Seal Class B, Add</i>	32.09	
<i>For Seal Class A, Add</i>	68.47	
<i>For Work In Restricted Working Space, Add</i>	64.19	
23 31 13 13-0419 LF 26" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	252.52	132.51
<i>For Seal Class B, Add</i>	33.13	
<i>For Seal Class A, Add</i>	70.67	
<i>For Work In Restricted Working Space, Add</i>	66.26	
23 31 13 13-0420 LF 26" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.42	136.66
<i>For Seal Class B, Add</i>	34.16	
<i>For Seal Class A, Add</i>	72.88	
<i>For Work In Restricted Working Space, Add</i>	68.33	
23 31 13 13-0421 LF 26" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	268.31	140.81
<i>For Seal Class B, Add</i>	35.20	
<i>For Seal Class A, Add</i>	75.09	
<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31 13 13-0422 LF 26" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	276.20	144.93
<i>For Seal Class B, Add</i>	36.23	
<i>For Seal Class A, Add</i>	77.30	
<i>For Work In Restricted Working Space, Add</i>	72.47	
23 31 13 13-0423 LF 26" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	284.09	149.08
<i>For Seal Class B, Add</i>	37.27	
<i>For Seal Class A, Add</i>	79.51	
<i>For Work In Restricted Working Space, Add</i>	74.54	
23 31 13 13-0424 LF 26" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	291.99	153.22
<i>For Seal Class B, Add</i>	38.31	
<i>For Seal Class A, Add</i>	81.72	
<i>For Work In Restricted Working Space, Add</i>	76.61	
23 31 13 13-0425 LF 28" x 28", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	220.95	115.94
<i>For Seal Class B, Add</i>	28.99	
<i>For Seal Class A, Add</i>	61.84	
<i>For Work In Restricted Working Space, Add</i>	57.97	
23 31 13 13-0426 LF 28" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	228.84	120.09
<i>For Seal Class B, Add</i>	30.02	
<i>For Seal Class A, Add</i>	64.04	
<i>For Work In Restricted Working Space, Add</i>	60.04	
23 31 13 13-0427 LF 28" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	236.75	124.23
<i>For Seal Class B, Add</i>	31.06	
<i>For Seal Class A, Add</i>	66.26	
<i>For Work In Restricted Working Space, Add</i>	62.12	
23 31 13 13-0428 LF 28" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	244.64	128.37
<i>For Seal Class B, Add</i>	32.09	
<i>For Seal Class A, Add</i>	68.47	
<i>For Work In Restricted Working Space, Add</i>	64.19	
23 31 13 13-0429 LF 28" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	252.52	132.51
<i>For Seal Class B, Add</i>	33.13	
<i>For Seal Class A, Add</i>	70.67	
<i>For Work In Restricted Working Space, Add</i>	66.26	
23 31 13 13-0430 LF 28" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.42	136.66
<i>For Seal Class B, Add</i>	34.16	
<i>For Seal Class A, Add</i>	72.88	
<i>For Work In Restricted Working Space, Add</i>	68.33	
23 31 13 13-0431 LF 28" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	268.31	140.81
<i>For Seal Class B, Add</i>	35.20	
<i>For Seal Class A, Add</i>	75.09	
<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31 13 13-0432 LF 28" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	276.20	144.93
<i>For Seal Class B, Add</i>	36.23	
<i>For Seal Class A, Add</i>	77.30	
<i>For Work In Restricted Working Space, Add</i>	72.47	
23 31 13 13-0433 LF 28" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	284.09	149.08
<i>For Seal Class B, Add</i>	37.27	
<i>For Seal Class A, Add</i>	79.51	
<i>For Work In Restricted Working Space, Add</i>	74.54	
23 31 13 13-0434 LF 28" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	291.99	153.22
<i>For Seal Class B, Add</i>	38.31	
<i>For Seal Class A, Add</i>	81.72	
<i>For Work In Restricted Working Space, Add</i>	76.61	
23 31 13 13-0435 LF 28" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	299.88	157.36
<i>For Seal Class B, Add</i>	39.34	
<i>For Seal Class A, Add</i>	83.93	
<i>For Work In Restricted Working Space, Add</i>	78.68	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0436	LF	30" x 30", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	236.75	124.23
			<i>For Seal Class B, Add</i>	31.06	
			<i>For Seal Class A, Add</i>	66.26	
			<i>For Work In Restricted Working Space, Add</i>	62.12	
23 31 13	13-0437	LF	30" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	244.64	128.37
			<i>For Seal Class B, Add</i>	32.09	
			<i>For Seal Class A, Add</i>	68.47	
			<i>For Work In Restricted Working Space, Add</i>	64.19	
23 31 13	13-0438	LF	30" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	252.52	132.51
			<i>For Seal Class B, Add</i>	33.13	
			<i>For Seal Class A, Add</i>	70.67	
			<i>For Work In Restricted Working Space, Add</i>	66.26	
23 31 13	13-0439	LF	30" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.42	136.66
			<i>For Seal Class B, Add</i>	34.16	
			<i>For Seal Class A, Add</i>	72.88	
			<i>For Work In Restricted Working Space, Add</i>	68.33	
23 31 13	13-0440	LF	30" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	268.31	140.81
			<i>For Seal Class B, Add</i>	35.20	
			<i>For Seal Class A, Add</i>	75.09	
			<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31 13	13-0441	LF	30" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	276.20	144.93
			<i>For Seal Class B, Add</i>	36.23	
			<i>For Seal Class A, Add</i>	77.30	
			<i>For Work In Restricted Working Space, Add</i>	72.47	
23 31 13	13-0442	LF	30" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	284.09	149.08
			<i>For Seal Class B, Add</i>	37.27	
			<i>For Seal Class A, Add</i>	79.51	
			<i>For Work In Restricted Working Space, Add</i>	74.54	
23 31 13	13-0443	LF	30" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	291.99	153.22
			<i>For Seal Class B, Add</i>	38.31	
			<i>For Seal Class A, Add</i>	81.72	
			<i>For Work In Restricted Working Space, Add</i>	76.61	
23 31 13	13-0444	LF	30" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	299.88	157.36
			<i>For Seal Class B, Add</i>	39.34	
			<i>For Seal Class A, Add</i>	83.93	
			<i>For Work In Restricted Working Space, Add</i>	78.68	
23 31 13	13-0445	LF	30" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	307.77	161.51
			<i>For Seal Class B, Add</i>	40.38	
			<i>For Seal Class A, Add</i>	86.13	
			<i>For Work In Restricted Working Space, Add</i>	80.75	
23 31 13	13-0446	LF	32" x 32", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	252.52	132.51
			<i>For Seal Class B, Add</i>	33.13	
			<i>For Seal Class A, Add</i>	70.67	
			<i>For Work In Restricted Working Space, Add</i>	66.26	
23 31 13	13-0447	LF	32" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.42	136.66
			<i>For Seal Class B, Add</i>	34.16	
			<i>For Seal Class A, Add</i>	72.88	
			<i>For Work In Restricted Working Space, Add</i>	68.33	
23 31 13	13-0448	LF	32" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	268.31	140.81
			<i>For Seal Class B, Add</i>	35.20	
			<i>For Seal Class A, Add</i>	75.09	
			<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31 13	13-0449	LF	32" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	276.20	144.93
			<i>For Seal Class B, Add</i>	36.23	
			<i>For Seal Class A, Add</i>	77.30	
			<i>For Work In Restricted Working Space, Add</i>	72.47	
23 31 13	13-0450	LF	32" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	284.09	149.08
			<i>For Seal Class B, Add</i>	37.27	
			<i>For Seal Class A, Add</i>	79.51	
			<i>For Work In Restricted Working Space, Add</i>	74.54	
23 31 13	13-0451	LF	32" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	291.99	153.22
			<i>For Seal Class B, Add</i>	38.31	
			<i>For Seal Class A, Add</i>	81.72	
			<i>For Work In Restricted Working Space, Add</i>	76.61	
23 31 13	13-0452	LF	32" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	299.88	157.36
			<i>For Seal Class B, Add</i>	39.34	
			<i>For Seal Class A, Add</i>	83.93	
			<i>For Work In Restricted Working Space, Add</i>	78.68	
23 31 13	13-0453	LF	32" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	307.77	161.51
			<i>For Seal Class B, Add</i>	40.38	
			<i>For Seal Class A, Add</i>	86.13	
			<i>For Work In Restricted Working Space, Add</i>	80.75	
23 31 13	13-0454	LF	32" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	315.66	165.65
			<i>For Seal Class B, Add</i>	41.41	
			<i>For Seal Class A, Add</i>	88.34	
			<i>For Work In Restricted Working Space, Add</i>	82.82	
23 31 13	13-0455	LF	34" x 34", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	268.31	140.81
			<i>For Seal Class B, Add</i>	35.20	
			<i>For Seal Class A, Add</i>	75.09	
			<i>For Work In Restricted Working Space, Add</i>	70.40	
23 31 13	13-0456	LF	34" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	276.20	144.93
			<i>For Seal Class B, Add</i>	36.23	
			<i>For Seal Class A, Add</i>	77.30	
			<i>For Work In Restricted Working Space, Add</i>	72.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0457 LF 34" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	284.09	149.08
<i>For Seal Class B, Add</i>	37.27	
<i>For Seal Class A, Add</i>	79.51	
<i>For Work In Restricted Working Space, Add</i>	74.54	
23 31 13 13-0458 LF 34" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	291.99	153.22
<i>For Seal Class B, Add</i>	38.31	
<i>For Seal Class A, Add</i>	81.72	
<i>For Work In Restricted Working Space, Add</i>	76.61	
23 31 13 13-0459 LF 34" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	299.88	157.36
<i>For Seal Class B, Add</i>	39.34	
<i>For Seal Class A, Add</i>	83.93	
<i>For Work In Restricted Working Space, Add</i>	78.68	
23 31 13 13-0460 LF 34" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	307.77	161.51
<i>For Seal Class B, Add</i>	40.38	
<i>For Seal Class A, Add</i>	86.13	
<i>For Work In Restricted Working Space, Add</i>	80.75	
23 31 13 13-0461 LF 34" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	315.66	165.65
<i>For Seal Class B, Add</i>	41.41	
<i>For Seal Class A, Add</i>	88.34	
<i>For Work In Restricted Working Space, Add</i>	82.82	
23 31 13 13-0462 LF 34" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	323.55	169.78
<i>For Seal Class B, Add</i>	42.45	
<i>For Seal Class A, Add</i>	90.55	
<i>For Work In Restricted Working Space, Add</i>	84.89	
23 31 13 13-0463 LF 36" x 36", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	284.09	149.08
<i>For Seal Class B, Add</i>	37.27	
<i>For Seal Class A, Add</i>	79.51	
<i>For Work In Restricted Working Space, Add</i>	74.54	
23 31 13 13-0464 LF 36" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	291.99	153.22
<i>For Seal Class B, Add</i>	38.31	
<i>For Seal Class A, Add</i>	81.72	
<i>For Work In Restricted Working Space, Add</i>	76.61	
23 31 13 13-0465 LF 36" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	299.88	157.36
<i>For Seal Class B, Add</i>	39.34	
<i>For Seal Class A, Add</i>	83.93	
<i>For Work In Restricted Working Space, Add</i>	78.68	
23 31 13 13-0466 LF 36" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	307.77	161.51
<i>For Seal Class B, Add</i>	40.38	
<i>For Seal Class A, Add</i>	86.13	
<i>For Work In Restricted Working Space, Add</i>	80.75	
23 31 13 13-0467 LF 36" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	315.66	165.65
<i>For Seal Class B, Add</i>	41.41	
<i>For Seal Class A, Add</i>	88.34	
<i>For Work In Restricted Working Space, Add</i>	82.82	
23 31 13 13-0468 LF 36" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	323.55	169.78
<i>For Seal Class B, Add</i>	42.45	
<i>For Seal Class A, Add</i>	90.55	
<i>For Work In Restricted Working Space, Add</i>	84.89	
23 31 13 13-0469 LF 36" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	331.44	173.92
<i>For Seal Class B, Add</i>	43.48	
<i>For Seal Class A, Add</i>	92.76	
<i>For Work In Restricted Working Space, Add</i>	86.96	
23 31 13 13-0470 LF 38" x 38", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	299.88	157.36
<i>For Seal Class B, Add</i>	39.34	
<i>For Seal Class A, Add</i>	83.93	
<i>For Work In Restricted Working Space, Add</i>	78.68	
23 31 13 13-0471 LF 38" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	307.77	161.51
<i>For Seal Class B, Add</i>	40.38	
<i>For Seal Class A, Add</i>	86.13	
<i>For Work In Restricted Working Space, Add</i>	80.75	
23 31 13 13-0472 LF 38" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	315.66	165.65
<i>For Seal Class B, Add</i>	41.41	
<i>For Seal Class A, Add</i>	88.34	
<i>For Work In Restricted Working Space, Add</i>	82.82	
23 31 13 13-0473 LF 38" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	323.55	169.78
<i>For Seal Class B, Add</i>	42.45	
<i>For Seal Class A, Add</i>	90.55	
<i>For Work In Restricted Working Space, Add</i>	84.89	
23 31 13 13-0474 LF 38" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	331.44	173.92
<i>For Seal Class B, Add</i>	43.48	
<i>For Seal Class A, Add</i>	92.76	
<i>For Work In Restricted Working Space, Add</i>	86.96	
23 31 13 13-0475 LF 38" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	339.34	178.07
<i>For Seal Class B, Add</i>	44.52	
<i>For Seal Class A, Add</i>	94.97	
<i>For Work In Restricted Working Space, Add</i>	89.03	
23 31 13 13-0476 LF 38" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	347.23	182.20
<i>For Seal Class B, Add</i>	45.55	
<i>For Seal Class A, Add</i>	97.18	
<i>For Work In Restricted Working Space, Add</i>	91.10	
23 31 13 13-0477 LF 40" x 40", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	315.66	165.65
<i>For Seal Class B, Add</i>	41.41	
<i>For Seal Class A, Add</i>	88.34	
<i>For Work In Restricted Working Space, Add</i>	82.82	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0478	LF	40" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	323.55	169.78
			<i>For Seal Class B, Add</i>	42.45	
			<i>For Seal Class A, Add</i>	90.55	
			<i>For Work In Restricted Working Space, Add</i>	84.89	
23 31 13	13-0479	LF	40" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	331.44	173.92
			<i>For Seal Class B, Add</i>	43.48	
			<i>For Seal Class A, Add</i>	92.76	
			<i>For Work In Restricted Working Space, Add</i>	86.96	
23 31 13	13-0480	LF	40" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	339.34	178.07
			<i>For Seal Class B, Add</i>	44.52	
			<i>For Seal Class A, Add</i>	94.97	
			<i>For Work In Restricted Working Space, Add</i>	89.03	
23 31 13	13-0481	LF	40" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	347.23	182.20
			<i>For Seal Class B, Add</i>	45.55	
			<i>For Seal Class A, Add</i>	97.18	
			<i>For Work In Restricted Working Space, Add</i>	91.10	
23 31 13	13-0482	LF	40" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	355.12	186.35
			<i>For Seal Class B, Add</i>	46.59	
			<i>For Seal Class A, Add</i>	99.39	
			<i>For Work In Restricted Working Space, Add</i>	93.17	
23 31 13	13-0483	LF	40" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	363.02	190.50
			<i>For Seal Class B, Add</i>	47.62	
			<i>For Seal Class A, Add</i>	101.60	
			<i>For Work In Restricted Working Space, Add</i>	95.25	
23 31 13	13-0484	LF	40" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	370.90	194.62
			<i>For Seal Class B, Add</i>	48.66	
			<i>For Seal Class A, Add</i>	103.80	
			<i>For Work In Restricted Working Space, Add</i>	97.31	
23 31 13	13-0485	LF	42" x 42", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	331.44	173.92
			<i>For Seal Class B, Add</i>	43.48	
			<i>For Seal Class A, Add</i>	92.76	
			<i>For Work In Restricted Working Space, Add</i>	86.96	
23 31 13	13-0486	LF	42" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	339.34	178.07
			<i>For Seal Class B, Add</i>	44.52	
			<i>For Seal Class A, Add</i>	94.97	
			<i>For Work In Restricted Working Space, Add</i>	89.03	
23 31 13	13-0487	LF	42" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	347.23	182.20
			<i>For Seal Class B, Add</i>	45.55	
			<i>For Seal Class A, Add</i>	97.18	
			<i>For Work In Restricted Working Space, Add</i>	91.10	
23 31 13	13-0488	LF	42" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	355.12	186.35
			<i>For Seal Class B, Add</i>	46.59	
			<i>For Seal Class A, Add</i>	99.39	
			<i>For Work In Restricted Working Space, Add</i>	93.17	
23 31 13	13-0489	LF	42" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	363.02	190.50
			<i>For Seal Class B, Add</i>	47.62	
			<i>For Seal Class A, Add</i>	101.60	
			<i>For Work In Restricted Working Space, Add</i>	95.25	
23 31 13	13-0490	LF	42" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	370.90	194.62
			<i>For Seal Class B, Add</i>	48.66	
			<i>For Seal Class A, Add</i>	103.80	
			<i>For Work In Restricted Working Space, Add</i>	97.31	
23 31 13	13-0491	LF	42" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	378.79	198.77
			<i>For Seal Class B, Add</i>	49.69	
			<i>For Seal Class A, Add</i>	106.01	
			<i>For Work In Restricted Working Space, Add</i>	99.38	
23 31 13	13-0492	LF	44" x 44", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	347.23	182.20
			<i>For Seal Class B, Add</i>	45.55	
			<i>For Seal Class A, Add</i>	97.18	
			<i>For Work In Restricted Working Space, Add</i>	91.10	
23 31 13	13-0493	LF	44" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	355.12	186.35
			<i>For Seal Class B, Add</i>	46.59	
			<i>For Seal Class A, Add</i>	99.39	
			<i>For Work In Restricted Working Space, Add</i>	93.17	
23 31 13	13-0494	LF	44" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	363.02	190.50
			<i>For Seal Class B, Add</i>	47.62	
			<i>For Seal Class A, Add</i>	101.60	
			<i>For Work In Restricted Working Space, Add</i>	95.25	
23 31 13	13-0495	LF	44" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	370.90	194.62
			<i>For Seal Class B, Add</i>	48.66	
			<i>For Seal Class A, Add</i>	103.80	
			<i>For Work In Restricted Working Space, Add</i>	97.31	
23 31 13	13-0496	LF	44" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	378.79	198.77
			<i>For Seal Class B, Add</i>	49.69	
			<i>For Seal Class A, Add</i>	106.01	
			<i>For Work In Restricted Working Space, Add</i>	99.38	
23 31 13	13-0497	LF	44" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	386.68	202.91
			<i>For Seal Class B, Add</i>	50.73	
			<i>For Seal Class A, Add</i>	108.22	
			<i>For Work In Restricted Working Space, Add</i>	101.45	
23 31 13	13-0498	LF	46" x 46", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	363.02	190.50
			<i>For Seal Class B, Add</i>	47.62	
			<i>For Seal Class A, Add</i>	101.60	
			<i>For Work In Restricted Working Space, Add</i>	95.25	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0499 LF 46" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	370.90	194.62
<i>For Seal Class B, Add</i>	48.66	
<i>For Seal Class A, Add</i>	103.80	
<i>For Work In Restricted Working Space, Add</i>	97.31	
23 31 13 13-0500 LF 46" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	378.79	198.77
<i>For Seal Class B, Add</i>	49.69	
<i>For Seal Class A, Add</i>	106.01	
<i>For Work In Restricted Working Space, Add</i>	99.38	
23 31 13 13-0501 LF 46" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	386.68	202.91
<i>For Seal Class B, Add</i>	50.73	
<i>For Seal Class A, Add</i>	108.22	
<i>For Work In Restricted Working Space, Add</i>	101.45	
23 31 13 13-0502 LF 46" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	394.59	207.06
<i>For Seal Class B, Add</i>	51.77	
<i>For Seal Class A, Add</i>	110.43	
<i>For Work In Restricted Working Space, Add</i>	103.53	
23 31 13 13-0503 LF 48" x 48", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	378.79	198.77
<i>For Seal Class B, Add</i>	49.69	
<i>For Seal Class A, Add</i>	106.01	
<i>For Work In Restricted Working Space, Add</i>	99.38	
23 31 13 13-0504 LF 48" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	386.68	202.91
<i>For Seal Class B, Add</i>	50.73	
<i>For Seal Class A, Add</i>	108.22	
<i>For Work In Restricted Working Space, Add</i>	101.45	
23 31 13 13-0505 LF 48" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	394.59	207.06
<i>For Seal Class B, Add</i>	51.77	
<i>For Seal Class A, Add</i>	110.43	
<i>For Work In Restricted Working Space, Add</i>	103.53	
23 31 13 13-0506 LF 48" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	402.47	211.19
<i>For Seal Class B, Add</i>	52.80	
<i>For Seal Class A, Add</i>	112.64	
<i>For Work In Restricted Working Space, Add</i>	105.60	
23 31 13 13-0507 LF 50" x 50", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	394.59	207.06
<i>For Seal Class B, Add</i>	51.77	
<i>For Seal Class A, Add</i>	110.43	
<i>For Work In Restricted Working Space, Add</i>	103.53	
23 31 13 13-0508 LF 50" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	402.47	211.19
<i>For Seal Class B, Add</i>	52.80	
<i>For Seal Class A, Add</i>	112.64	
<i>For Work In Restricted Working Space, Add</i>	105.60	
23 31 13 13-0509 LF 50" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	410.36	215.34
<i>For Seal Class B, Add</i>	53.83	
<i>For Seal Class A, Add</i>	114.84	
<i>For Work In Restricted Working Space, Add</i>	107.67	
23 31 13 13-0510 LF 52" x 52", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	410.36	215.34
<i>For Seal Class B, Add</i>	53.83	
<i>For Seal Class A, Add</i>	114.84	
<i>For Work In Restricted Working Space, Add</i>	107.67	
23 31 13 13-0511 LF 52" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	418.25	219.48
<i>For Seal Class B, Add</i>	54.87	
<i>For Seal Class A, Add</i>	117.06	
<i>For Work In Restricted Working Space, Add</i>	109.74	
23 31 13 13-0512 LF 54" x 54", 22 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	426.13	223.61
<i>For Seal Class B, Add</i>	55.90	
<i>For Seal Class A, Add</i>	119.26	
<i>For Work In Restricted Working Space, Add</i>	111.81	
<b>23 31 13 13-0513 20 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small></b>		
23 31 13 13-0514 LF 4" x 4", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	37.17	19.51
<i>For Seal Class B, Add</i>	4.88	
<i>For Seal Class A, Add</i>	10.41	
<i>For Work In Restricted Working Space, Add</i>	9.76	
23 31 13 13-0515 LF 4" x 6", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	46.48	24.38
<i>For Seal Class B, Add</i>	6.10	
<i>For Seal Class A, Add</i>	13.01	
<i>For Work In Restricted Working Space, Add</i>	12.20	
23 31 13 13-0516 LF 4" x 8", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	55.77	29.26
<i>For Seal Class B, Add</i>	7.32	
<i>For Seal Class A, Add</i>	15.61	
<i>For Work In Restricted Working Space, Add</i>	14.63	
23 31 13 13-0517 LF 4" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	65.05	34.13
<i>For Seal Class B, Add</i>	8.54	
<i>For Seal Class A, Add</i>	18.21	
<i>For Work In Restricted Working Space, Add</i>	17.07	
23 31 13 13-0518 LF 4" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	74.36	39.02
<i>For Seal Class B, Add</i>	9.75	
<i>For Seal Class A, Add</i>	20.81	
<i>For Work In Restricted Working Space, Add</i>	19.51	
23 31 13 13-0519 LF 4" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	83.65	43.89
<i>For Seal Class B, Add</i>	10.97	
<i>For Seal Class A, Add</i>	23.41	
<i>For Work In Restricted Working Space, Add</i>	21.95	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0520	LF	4" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	92.95	48.77
			<i>For Seal Class B, Add</i>	12.20	
			<i>For Seal Class A, Add</i>	26.02	
			<i>For Work In Restricted Working Space, Add</i>	24.39	
23 31 13	13-0521	LF	6" x 6", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	55.77	29.26
			<i>For Seal Class B, Add</i>	7.32	
			<i>For Seal Class A, Add</i>	15.61	
			<i>For Work In Restricted Working Space, Add</i>	14.63	
23 31 13	13-0522	LF	6" x 8", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	65.05	34.13
			<i>For Seal Class B, Add</i>	8.54	
			<i>For Seal Class A, Add</i>	18.21	
			<i>For Work In Restricted Working Space, Add</i>	17.07	
23 31 13	13-0523	LF	6" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	74.36	39.02
			<i>For Seal Class B, Add</i>	9.75	
			<i>For Seal Class A, Add</i>	20.81	
			<i>For Work In Restricted Working Space, Add</i>	19.51	
23 31 13	13-0524	LF	6" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	83.65	43.89
			<i>For Seal Class B, Add</i>	10.97	
			<i>For Seal Class A, Add</i>	23.41	
			<i>For Work In Restricted Working Space, Add</i>	21.95	
23 31 13	13-0525	LF	6" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	92.95	48.77
			<i>For Seal Class B, Add</i>	12.20	
			<i>For Seal Class A, Add</i>	26.02	
			<i>For Work In Restricted Working Space, Add</i>	24.39	
23 31 13	13-0526	LF	6" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	102.25	53.65
			<i>For Seal Class B, Add</i>	13.41	
			<i>For Seal Class A, Add</i>	28.61	
			<i>For Work In Restricted Working Space, Add</i>	26.83	
23 31 13	13-0527	LF	8" x 8", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	74.36	39.02
			<i>For Seal Class B, Add</i>	9.75	
			<i>For Seal Class A, Add</i>	20.81	
			<i>For Work In Restricted Working Space, Add</i>	19.51	
23 31 13	13-0528	LF	8" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	83.65	43.89
			<i>For Seal Class B, Add</i>	10.97	
			<i>For Seal Class A, Add</i>	23.41	
			<i>For Work In Restricted Working Space, Add</i>	21.95	
23 31 13	13-0529	LF	8" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	92.95	48.77
			<i>For Seal Class B, Add</i>	12.20	
			<i>For Seal Class A, Add</i>	26.02	
			<i>For Work In Restricted Working Space, Add</i>	24.39	
23 31 13	13-0530	LF	8" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	102.25	53.65
			<i>For Seal Class B, Add</i>	13.41	
			<i>For Seal Class A, Add</i>	28.61	
			<i>For Work In Restricted Working Space, Add</i>	26.83	
23 31 13	13-0531	LF	8" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	111.53	58.53
			<i>For Seal Class B, Add</i>	14.63	
			<i>For Seal Class A, Add</i>	31.22	
			<i>For Work In Restricted Working Space, Add</i>	29.27	
23 31 13	13-0532	LF	8" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	120.82	63.40
			<i>For Seal Class B, Add</i>	15.85	
			<i>For Seal Class A, Add</i>	33.81	
			<i>For Work In Restricted Working Space, Add</i>	31.70	
23 31 13	13-0533	LF	8" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	130.13	68.29
			<i>For Seal Class B, Add</i>	17.07	
			<i>For Seal Class A, Add</i>	36.42	
			<i>For Work In Restricted Working Space, Add</i>	34.14	
23 31 13	13-0534	LF	8" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	139.42	73.15
			<i>For Seal Class B, Add</i>	18.29	
			<i>For Seal Class A, Add</i>	39.02	
			<i>For Work In Restricted Working Space, Add</i>	36.58	
23 31 13	13-0535	LF	8" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	148.71	78.04
			<i>For Seal Class B, Add</i>	19.51	
			<i>For Seal Class A, Add</i>	41.62	
			<i>For Work In Restricted Working Space, Add</i>	39.02	
23 31 13	13-0536	LF	10" x 10", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	92.95	48.77
			<i>For Seal Class B, Add</i>	12.20	
			<i>For Seal Class A, Add</i>	26.02	
			<i>For Work In Restricted Working Space, Add</i>	24.39	
23 31 13	13-0537	LF	10" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	102.25	53.65
			<i>For Seal Class B, Add</i>	13.41	
			<i>For Seal Class A, Add</i>	28.61	
			<i>For Work In Restricted Working Space, Add</i>	26.83	
23 31 13	13-0538	LF	10" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	111.53	58.53
			<i>For Seal Class B, Add</i>	14.63	
			<i>For Seal Class A, Add</i>	31.22	
			<i>For Work In Restricted Working Space, Add</i>	29.27	
23 31 13	13-0539	LF	10" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	120.82	63.40
			<i>For Seal Class B, Add</i>	15.85	
			<i>For Seal Class A, Add</i>	33.81	
			<i>For Work In Restricted Working Space, Add</i>	31.70	
23 31 13	13-0540	LF	10" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	130.13	68.29
			<i>For Seal Class B, Add</i>	17.07	
			<i>For Seal Class A, Add</i>	36.42	
			<i>For Work In Restricted Working Space, Add</i>	34.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0541 LF 10" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	139.42	73.15
<i>For Seal Class B, Add</i>	18.29	
<i>For Seal Class A, Add</i>	39.02	
<i>For Work In Restricted Working Space, Add</i>	36.58	
23 31 13 13-0542 LF 10" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	148.71	78.04
<i>For Seal Class B, Add</i>	19.51	
<i>For Seal Class A, Add</i>	41.62	
<i>For Work In Restricted Working Space, Add</i>	39.02	
23 31 13 13-0543 LF 10" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	158.03	82.91
<i>For Seal Class B, Add</i>	20.73	
<i>For Seal Class A, Add</i>	44.22	
<i>For Work In Restricted Working Space, Add</i>	41.46	
23 31 13 13-0544 LF 10" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	167.30	87.79
<i>For Seal Class B, Add</i>	21.95	
<i>For Seal Class A, Add</i>	46.82	
<i>For Work In Restricted Working Space, Add</i>	43.90	
23 31 13 13-0545 LF 10" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	176.60	92.67
<i>For Seal Class B, Add</i>	23.17	
<i>For Seal Class A, Add</i>	49.42	
<i>For Work In Restricted Working Space, Add</i>	46.34	
23 31 13 13-0546 LF 10" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.88	97.55
<i>For Seal Class B, Add</i>	24.39	
<i>For Seal Class A, Add</i>	52.02	
<i>For Work In Restricted Working Space, Add</i>	48.77	
23 31 13 13-0547 LF 10" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	195.19	102.42
<i>For Seal Class B, Add</i>	25.61	
<i>For Seal Class A, Add</i>	54.63	
<i>For Work In Restricted Working Space, Add</i>	51.21	
23 31 13 13-0548 LF 12" x 12", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	111.53	58.53
<i>For Seal Class B, Add</i>	14.63	
<i>For Seal Class A, Add</i>	31.22	
<i>For Work In Restricted Working Space, Add</i>	29.27	
23 31 13 13-0549 LF 12" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	120.82	63.40
<i>For Seal Class B, Add</i>	15.85	
<i>For Seal Class A, Add</i>	33.81	
<i>For Work In Restricted Working Space, Add</i>	31.70	
23 31 13 13-0550 LF 12" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	130.13	68.29
<i>For Seal Class B, Add</i>	17.07	
<i>For Seal Class A, Add</i>	36.42	
<i>For Work In Restricted Working Space, Add</i>	34.14	
23 31 13 13-0551 LF 12" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	139.42	73.15
<i>For Seal Class B, Add</i>	18.29	
<i>For Seal Class A, Add</i>	39.02	
<i>For Work In Restricted Working Space, Add</i>	36.58	
23 31 13 13-0552 LF 12" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	148.71	78.04
<i>For Seal Class B, Add</i>	19.51	
<i>For Seal Class A, Add</i>	41.62	
<i>For Work In Restricted Working Space, Add</i>	39.02	
23 31 13 13-0553 LF 12" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	158.03	82.91
<i>For Seal Class B, Add</i>	20.73	
<i>For Seal Class A, Add</i>	44.22	
<i>For Work In Restricted Working Space, Add</i>	41.46	
23 31 13 13-0554 LF 12" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	167.30	87.79
<i>For Seal Class B, Add</i>	21.95	
<i>For Seal Class A, Add</i>	46.82	
<i>For Work In Restricted Working Space, Add</i>	43.90	
23 31 13 13-0555 LF 12" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	176.60	92.67
<i>For Seal Class B, Add</i>	23.17	
<i>For Seal Class A, Add</i>	49.42	
<i>For Work In Restricted Working Space, Add</i>	46.34	
23 31 13 13-0556 LF 12" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.88	97.55
<i>For Seal Class B, Add</i>	24.39	
<i>For Seal Class A, Add</i>	52.02	
<i>For Work In Restricted Working Space, Add</i>	48.77	
23 31 13 13-0557 LF 12" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	195.19	102.42
<i>For Seal Class B, Add</i>	25.61	
<i>For Seal Class A, Add</i>	54.63	
<i>For Work In Restricted Working Space, Add</i>	51.21	
23 31 13 13-0558 LF 12" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	204.49	107.31
<i>For Seal Class B, Add</i>	26.83	
<i>For Seal Class A, Add</i>	57.23	
<i>For Work In Restricted Working Space, Add</i>	53.65	
23 31 13 13-0559 LF 12" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.77	112.18
<i>For Seal Class B, Add</i>	28.04	
<i>For Seal Class A, Add</i>	59.83	
<i>For Work In Restricted Working Space, Add</i>	56.09	
23 31 13 13-0560 LF 12" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	223.08	117.06
<i>For Seal Class B, Add</i>	29.27	
<i>For Seal Class A, Add</i>	62.43	
<i>For Work In Restricted Working Space, Add</i>	58.53	
23 31 13 13-0561 LF 14" x 14", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	130.13	68.29
<i>For Seal Class B, Add</i>	17.07	
<i>For Seal Class A, Add</i>	36.42	
<i>For Work In Restricted Working Space, Add</i>	34.14	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0562	LF	14" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	139.42	73.15
			<i>For Seal Class B, Add</i>	18.29	
			<i>For Seal Class A, Add</i>	39.02	
			<i>For Work In Restricted Working Space, Add</i>	36.58	
23 31 13	13-0563	LF	14" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	148.71	78.04
			<i>For Seal Class B, Add</i>	19.51	
			<i>For Seal Class A, Add</i>	41.62	
			<i>For Work In Restricted Working Space, Add</i>	39.02	
23 31 13	13-0564	LF	14" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	158.03	82.91
			<i>For Seal Class B, Add</i>	20.73	
			<i>For Seal Class A, Add</i>	44.22	
			<i>For Work In Restricted Working Space, Add</i>	41.46	
23 31 13	13-0565	LF	14" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	167.30	87.79
			<i>For Seal Class B, Add</i>	21.95	
			<i>For Seal Class A, Add</i>	46.82	
			<i>For Work In Restricted Working Space, Add</i>	43.90	
23 31 13	13-0566	LF	14" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	176.60	92.67
			<i>For Seal Class B, Add</i>	23.17	
			<i>For Seal Class A, Add</i>	49.42	
			<i>For Work In Restricted Working Space, Add</i>	46.34	
23 31 13	13-0567	LF	14" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.88	97.55
			<i>For Seal Class B, Add</i>	24.39	
			<i>For Seal Class A, Add</i>	52.02	
			<i>For Work In Restricted Working Space, Add</i>	48.77	
23 31 13	13-0568	LF	14" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	195.19	102.42
			<i>For Seal Class B, Add</i>	25.61	
			<i>For Seal Class A, Add</i>	54.63	
			<i>For Work In Restricted Working Space, Add</i>	51.21	
23 31 13	13-0569	LF	14" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	204.49	107.31
			<i>For Seal Class B, Add</i>	26.83	
			<i>For Seal Class A, Add</i>	57.23	
			<i>For Work In Restricted Working Space, Add</i>	53.65	
23 31 13	13-0570	LF	14" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.77	112.18
			<i>For Seal Class B, Add</i>	28.04	
			<i>For Seal Class A, Add</i>	59.83	
			<i>For Work In Restricted Working Space, Add</i>	56.09	
23 31 13	13-0571	LF	14" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	223.08	117.06
			<i>For Seal Class B, Add</i>	29.27	
			<i>For Seal Class A, Add</i>	62.43	
			<i>For Work In Restricted Working Space, Add</i>	58.53	
23 31 13	13-0572	LF	14" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	232.35	121.94
			<i>For Seal Class B, Add</i>	30.48	
			<i>For Seal Class A, Add</i>	65.03	
			<i>For Work In Restricted Working Space, Add</i>	60.97	
23 31 13	13-0573	LF	16" x 16", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	148.71	78.04
			<i>For Seal Class B, Add</i>	19.51	
			<i>For Seal Class A, Add</i>	41.62	
			<i>For Work In Restricted Working Space, Add</i>	39.02	
23 31 13	13-0574	LF	16" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	158.03	82.91
			<i>For Seal Class B, Add</i>	20.73	
			<i>For Seal Class A, Add</i>	44.22	
			<i>For Work In Restricted Working Space, Add</i>	41.46	
23 31 13	13-0575	LF	16" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	167.30	87.79
			<i>For Seal Class B, Add</i>	21.95	
			<i>For Seal Class A, Add</i>	46.82	
			<i>For Work In Restricted Working Space, Add</i>	43.90	
23 31 13	13-0576	LF	16" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	176.60	92.67
			<i>For Seal Class B, Add</i>	23.17	
			<i>For Seal Class A, Add</i>	49.42	
			<i>For Work In Restricted Working Space, Add</i>	46.34	
23 31 13	13-0577	LF	16" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.88	97.55
			<i>For Seal Class B, Add</i>	24.39	
			<i>For Seal Class A, Add</i>	52.02	
			<i>For Work In Restricted Working Space, Add</i>	48.77	
23 31 13	13-0578	LF	16" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	195.19	102.42
			<i>For Seal Class B, Add</i>	25.61	
			<i>For Seal Class A, Add</i>	54.63	
			<i>For Work In Restricted Working Space, Add</i>	51.21	
23 31 13	13-0579	LF	16" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	204.49	107.31
			<i>For Seal Class B, Add</i>	26.83	
			<i>For Seal Class A, Add</i>	57.23	
			<i>For Work In Restricted Working Space, Add</i>	53.65	
23 31 13	13-0580	LF	16" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.77	112.18
			<i>For Seal Class B, Add</i>	28.04	
			<i>For Seal Class A, Add</i>	59.83	
			<i>For Work In Restricted Working Space, Add</i>	56.09	
23 31 13	13-0581	LF	16" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	223.08	117.06
			<i>For Seal Class B, Add</i>	29.27	
			<i>For Seal Class A, Add</i>	62.43	
			<i>For Work In Restricted Working Space, Add</i>	58.53	
23 31 13	13-0582	LF	16" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	232.35	121.94
			<i>For Seal Class B, Add</i>	30.48	
			<i>For Seal Class A, Add</i>	65.03	
			<i>For Work In Restricted Working Space, Add</i>	60.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0583 LF 16" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	241.67	126.82
<i>For Seal Class B, Add</i>	31.70	
<i>For Seal Class A, Add</i>	67.64	
<i>For Work In Restricted Working Space, Add</i>	63.41	
23 31 13 13-0584 LF 16" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	250.96	131.68
<i>For Seal Class B, Add</i>	32.92	
<i>For Seal Class A, Add</i>	70.23	
<i>For Work In Restricted Working Space, Add</i>	65.84	
23 31 13 13-0585 LF 16" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.24	136.57
<i>For Seal Class B, Add</i>	34.14	
<i>For Seal Class A, Add</i>	72.84	
<i>For Work In Restricted Working Space, Add</i>	68.28	
23 31 13 13-0586 LF 16" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	269.55	141.44
<i>For Seal Class B, Add</i>	35.36	
<i>For Seal Class A, Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	70.72	
23 31 13 13-0587 LF 16" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.85	146.32
<i>For Seal Class B, Add</i>	36.58	
<i>For Seal Class A, Add</i>	78.04	
<i>For Work In Restricted Working Space, Add</i>	73.16	
23 31 13 13-0588 LF 18" x 18", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	167.30	87.79
<i>For Seal Class B, Add</i>	21.95	
<i>For Seal Class A, Add</i>	46.82	
<i>For Work In Restricted Working Space, Add</i>	43.90	
23 31 13 13-0589 LF 18" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	176.60	92.67
<i>For Seal Class B, Add</i>	23.17	
<i>For Seal Class A, Add</i>	49.42	
<i>For Work In Restricted Working Space, Add</i>	46.34	
23 31 13 13-0590 LF 18" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.88	97.55
<i>For Seal Class B, Add</i>	24.39	
<i>For Seal Class A, Add</i>	52.02	
<i>For Work In Restricted Working Space, Add</i>	48.77	
23 31 13 13-0591 LF 18" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	195.19	102.42
<i>For Seal Class B, Add</i>	25.61	
<i>For Seal Class A, Add</i>	54.63	
<i>For Work In Restricted Working Space, Add</i>	51.21	
23 31 13 13-0592 LF 18" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	204.49	107.31
<i>For Seal Class B, Add</i>	26.83	
<i>For Seal Class A, Add</i>	57.23	
<i>For Work In Restricted Working Space, Add</i>	53.65	
23 31 13 13-0593 LF 18" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	213.77	112.18
<i>For Seal Class B, Add</i>	28.04	
<i>For Seal Class A, Add</i>	59.83	
<i>For Work In Restricted Working Space, Add</i>	56.09	
23 31 13 13-0594 LF 18" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	223.08	117.06
<i>For Seal Class B, Add</i>	29.27	
<i>For Seal Class A, Add</i>	62.43	
<i>For Work In Restricted Working Space, Add</i>	58.53	
23 31 13 13-0595 LF 18" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	232.35	121.94
<i>For Seal Class B, Add</i>	30.48	
<i>For Seal Class A, Add</i>	65.03	
<i>For Work In Restricted Working Space, Add</i>	60.97	
23 31 13 13-0596 LF 18" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	241.67	126.82
<i>For Seal Class B, Add</i>	31.70	
<i>For Seal Class A, Add</i>	67.64	
<i>For Work In Restricted Working Space, Add</i>	63.41	
23 31 13 13-0597 LF 18" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	250.96	131.68
<i>For Seal Class B, Add</i>	32.92	
<i>For Seal Class A, Add</i>	70.23	
<i>For Work In Restricted Working Space, Add</i>	65.84	
23 31 13 13-0598 LF 18" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.24	136.57
<i>For Seal Class B, Add</i>	34.14	
<i>For Seal Class A, Add</i>	72.84	
<i>For Work In Restricted Working Space, Add</i>	68.28	
23 31 13 13-0599 LF 18" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	269.55	141.44
<i>For Seal Class B, Add</i>	35.36	
<i>For Seal Class A, Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	70.72	
23 31 13 13-0600 LF 18" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.85	146.32
<i>For Seal Class B, Add</i>	36.58	
<i>For Seal Class A, Add</i>	78.04	
<i>For Work In Restricted Working Space, Add</i>	73.16	
23 31 13 13-0601 LF 18" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	288.13	151.20
<i>For Seal Class B, Add</i>	37.80	
<i>For Seal Class A, Add</i>	80.64	
<i>For Work In Restricted Working Space, Add</i>	75.60	
23 31 13 13-0602 LF 18" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	297.44	156.08
<i>For Seal Class B, Add</i>	39.02	
<i>For Seal Class A, Add</i>	83.24	
<i>For Work In Restricted Working Space, Add</i>	78.04	
23 31 13 13-0603 LF 20" x 20", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	185.88	97.55
<i>For Seal Class B, Add</i>	24.39	
<i>For Seal Class A, Add</i>	52.02	
<i>For Work In Restricted Working Space, Add</i>	48.77	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0604	LF	20" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	195.19	102.42
			<i>For Seal Class B, Add</i>	25.61	
			<i>For Seal Class A, Add</i>	54.63	
			<i>For Work In Restricted Working Space, Add</i>	51.21	
23 31 13	13-0605	LF	20" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	204.49	107.31
			<i>For Seal Class B, Add</i>	26.83	
			<i>For Seal Class A, Add</i>	57.23	
			<i>For Work In Restricted Working Space, Add</i>	53.65	
23 31 13	13-0606	LF	20" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	213.77	112.18
			<i>For Seal Class B, Add</i>	28.04	
			<i>For Seal Class A, Add</i>	59.83	
			<i>For Work In Restricted Working Space, Add</i>	56.09	
23 31 13	13-0607	LF	20" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	223.08	117.06
			<i>For Seal Class B, Add</i>	29.27	
			<i>For Seal Class A, Add</i>	62.43	
			<i>For Work In Restricted Working Space, Add</i>	58.53	
23 31 13	13-0608	LF	20" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	232.35	121.94
			<i>For Seal Class B, Add</i>	30.48	
			<i>For Seal Class A, Add</i>	65.03	
			<i>For Work In Restricted Working Space, Add</i>	60.97	
23 31 13	13-0609	LF	20" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	241.67	126.82
			<i>For Seal Class B, Add</i>	31.70	
			<i>For Seal Class A, Add</i>	67.64	
			<i>For Work In Restricted Working Space, Add</i>	63.41	
23 31 13	13-0610	LF	20" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	250.96	131.68
			<i>For Seal Class B, Add</i>	32.92	
			<i>For Seal Class A, Add</i>	70.23	
			<i>For Work In Restricted Working Space, Add</i>	65.84	
23 31 13	13-0611	LF	20" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	260.24	136.57
			<i>For Seal Class B, Add</i>	34.14	
			<i>For Seal Class A, Add</i>	72.84	
			<i>For Work In Restricted Working Space, Add</i>	68.28	
23 31 13	13-0612	LF	20" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	269.55	141.44
			<i>For Seal Class B, Add</i>	35.36	
			<i>For Seal Class A, Add</i>	75.44	
			<i>For Work In Restricted Working Space, Add</i>	70.72	
23 31 13	13-0613	LF	20" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	278.85	146.32
			<i>For Seal Class B, Add</i>	36.58	
			<i>For Seal Class A, Add</i>	78.04	
			<i>For Work In Restricted Working Space, Add</i>	73.16	
23 31 13	13-0614	LF	20" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	288.13	151.20
			<i>For Seal Class B, Add</i>	37.80	
			<i>For Seal Class A, Add</i>	80.64	
			<i>For Work In Restricted Working Space, Add</i>	75.60	
23 31 13	13-0615	LF	20" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	297.44	156.08
			<i>For Seal Class B, Add</i>	39.02	
			<i>For Seal Class A, Add</i>	83.24	
			<i>For Work In Restricted Working Space, Add</i>	78.04	
23 31 13	13-0616	LF	20" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	306.72	160.95
			<i>For Seal Class B, Add</i>	40.24	
			<i>For Seal Class A, Add</i>	85.84	
			<i>For Work In Restricted Working Space, Add</i>	80.48	
23 31 13	13-0617	LF	20" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	316.01	165.84
			<i>For Seal Class B, Add</i>	41.46	
			<i>For Seal Class A, Add</i>	88.44	
			<i>For Work In Restricted Working Space, Add</i>	82.91	
23 31 13	13-0618	LF	22" x 22", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	204.49	107.31
			<i>For Seal Class B, Add</i>	26.83	
			<i>For Seal Class A, Add</i>	57.23	
			<i>For Work In Restricted Working Space, Add</i>	53.65	
23 31 13	13-0619	LF	22" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	213.77	112.18
			<i>For Seal Class B, Add</i>	28.04	
			<i>For Seal Class A, Add</i>	59.83	
			<i>For Work In Restricted Working Space, Add</i>	56.09	
23 31 13	13-0620	LF	22" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	223.08	117.06
			<i>For Seal Class B, Add</i>	29.27	
			<i>For Seal Class A, Add</i>	62.43	
			<i>For Work In Restricted Working Space, Add</i>	58.53	
23 31 13	13-0621	LF	22" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	232.35	121.94
			<i>For Seal Class B, Add</i>	30.48	
			<i>For Seal Class A, Add</i>	65.03	
			<i>For Work In Restricted Working Space, Add</i>	60.97	
23 31 13	13-0622	LF	22" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	241.67	126.82
			<i>For Seal Class B, Add</i>	31.70	
			<i>For Seal Class A, Add</i>	67.64	
			<i>For Work In Restricted Working Space, Add</i>	63.41	
23 31 13	13-0623	LF	22" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	250.96	131.68
			<i>For Seal Class B, Add</i>	32.92	
			<i>For Seal Class A, Add</i>	70.23	
			<i>For Work In Restricted Working Space, Add</i>	65.84	
23 31 13	13-0624	LF	22" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	260.24	136.57
			<i>For Seal Class B, Add</i>	34.14	
			<i>For Seal Class A, Add</i>	72.84	
			<i>For Work In Restricted Working Space, Add</i>	68.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0625 LF 22" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	269.55	141.44
<i>For Seal Class B, Add</i>	35.36	
<i>For Seal Class A, Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	70.72	
23 31 13 13-0626 LF 22" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.85	146.32
<i>For Seal Class B, Add</i>	36.58	
<i>For Seal Class A, Add</i>	78.04	
<i>For Work In Restricted Working Space, Add</i>	73.16	
23 31 13 13-0627 LF 22" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	288.13	151.20
<i>For Seal Class B, Add</i>	37.80	
<i>For Seal Class A, Add</i>	80.64	
<i>For Work In Restricted Working Space, Add</i>	75.60	
23 31 13 13-0628 LF 22" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	297.44	156.08
<i>For Seal Class B, Add</i>	39.02	
<i>For Seal Class A, Add</i>	83.24	
<i>For Work In Restricted Working Space, Add</i>	78.04	
23 31 13 13-0629 LF 22" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	306.72	160.95
<i>For Seal Class B, Add</i>	40.24	
<i>For Seal Class A, Add</i>	85.84	
<i>For Work In Restricted Working Space, Add</i>	80.48	
23 31 13 13-0630 LF 22" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	316.01	165.84
<i>For Seal Class B, Add</i>	41.46	
<i>For Seal Class A, Add</i>	88.44	
<i>For Work In Restricted Working Space, Add</i>	82.91	
23 31 13 13-0631 LF 22" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	325.32	170.71
<i>For Seal Class B, Add</i>	42.68	
<i>For Seal Class A, Add</i>	91.04	
<i>For Work In Restricted Working Space, Add</i>	85.35	
23 31 13 13-0632 LF 24" x 24", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	223.08	117.06
<i>For Seal Class B, Add</i>	29.27	
<i>For Seal Class A, Add</i>	62.43	
<i>For Work In Restricted Working Space, Add</i>	58.53	
23 31 13 13-0633 LF 24" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	232.35	121.94
<i>For Seal Class B, Add</i>	30.48	
<i>For Seal Class A, Add</i>	65.03	
<i>For Work In Restricted Working Space, Add</i>	60.97	
23 31 13 13-0634 LF 24" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	241.67	126.82
<i>For Seal Class B, Add</i>	31.70	
<i>For Seal Class A, Add</i>	67.64	
<i>For Work In Restricted Working Space, Add</i>	63.41	
23 31 13 13-0635 LF 24" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	250.96	131.68
<i>For Seal Class B, Add</i>	32.92	
<i>For Seal Class A, Add</i>	70.23	
<i>For Work In Restricted Working Space, Add</i>	65.84	
23 31 13 13-0636 LF 24" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.24	136.57
<i>For Seal Class B, Add</i>	34.14	
<i>For Seal Class A, Add</i>	72.84	
<i>For Work In Restricted Working Space, Add</i>	68.28	
23 31 13 13-0637 LF 24" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	269.55	141.44
<i>For Seal Class B, Add</i>	35.36	
<i>For Seal Class A, Add</i>	75.44	
<i>For Work In Restricted Working Space, Add</i>	70.72	
23 31 13 13-0638 LF 24" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.85	146.32
<i>For Seal Class B, Add</i>	36.58	
<i>For Seal Class A, Add</i>	78.04	
<i>For Work In Restricted Working Space, Add</i>	73.16	
23 31 13 13-0639 LF 24" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	288.13	151.20
<i>For Seal Class B, Add</i>	37.80	
<i>For Seal Class A, Add</i>	80.64	
<i>For Work In Restricted Working Space, Add</i>	75.60	
23 31 13 13-0640 LF 24" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	297.44	156.08
<i>For Seal Class B, Add</i>	39.02	
<i>For Seal Class A, Add</i>	83.24	
<i>For Work In Restricted Working Space, Add</i>	78.04	
23 31 13 13-0641 LF 24" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	306.72	160.95
<i>For Seal Class B, Add</i>	40.24	
<i>For Seal Class A, Add</i>	85.84	
<i>For Work In Restricted Working Space, Add</i>	80.48	
23 31 13 13-0642 LF 24" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	316.01	165.84
<i>For Seal Class B, Add</i>	41.46	
<i>For Seal Class A, Add</i>	88.44	
<i>For Work In Restricted Working Space, Add</i>	82.91	
23 31 13 13-0643 LF 24" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	325.32	170.71
<i>For Seal Class B, Add</i>	42.68	
<i>For Seal Class A, Add</i>	91.04	
<i>For Work In Restricted Working Space, Add</i>	85.35	
23 31 13 13-0644 LF 24" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	334.60	175.59
<i>For Seal Class B, Add</i>	43.90	
<i>For Seal Class A, Add</i>	93.64	
<i>For Work In Restricted Working Space, Add</i>	87.79	
23 31 13 13-0645 LF 26" x 26", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	241.67	126.82
<i>For Seal Class B, Add</i>	31.70	
<i>For Seal Class A, Add</i>	67.64	
<i>For Work In Restricted Working Space, Add</i>	63.41	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0646 LF 26" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	250.96	131.68
For Seal Class B, Add	32.92	
For Seal Class A, Add	70.23	
For Work In Restricted Working Space, Add	65.84	
23 31 13 13-0647 LF 26" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.24	136.57
For Seal Class B, Add	34.14	
For Seal Class A, Add	72.84	
For Work In Restricted Working Space, Add	68.28	
23 31 13 13-0648 LF 26" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	269.55	141.44
For Seal Class B, Add	35.36	
For Seal Class A, Add	75.44	
For Work In Restricted Working Space, Add	70.72	
23 31 13 13-0649 LF 26" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.85	146.32
For Seal Class B, Add	36.58	
For Seal Class A, Add	78.04	
For Work In Restricted Working Space, Add	73.16	
23 31 13 13-0650 LF 26" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	288.13	151.20
For Seal Class B, Add	37.80	
For Seal Class A, Add	80.64	
For Work In Restricted Working Space, Add	75.60	
23 31 13 13-0651 LF 26" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	297.44	156.08
For Seal Class B, Add	39.02	
For Seal Class A, Add	83.24	
For Work In Restricted Working Space, Add	78.04	
23 31 13 13-0652 LF 26" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	306.72	160.95
For Seal Class B, Add	40.24	
For Seal Class A, Add	85.84	
For Work In Restricted Working Space, Add	80.48	
23 31 13 13-0653 LF 26" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	316.01	165.84
For Seal Class B, Add	41.46	
For Seal Class A, Add	88.44	
For Work In Restricted Working Space, Add	82.91	
23 31 13 13-0654 LF 26" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	325.32	170.71
For Seal Class B, Add	42.68	
For Seal Class A, Add	91.04	
For Work In Restricted Working Space, Add	85.35	
23 31 13 13-0655 LF 26" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	334.60	175.59
For Seal Class B, Add	43.90	
For Seal Class A, Add	93.64	
For Work In Restricted Working Space, Add	87.79	
23 31 13 13-0656 LF 26" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	343.91	180.46
For Seal Class B, Add	45.12	
For Seal Class A, Add	96.25	
For Work In Restricted Working Space, Add	90.23	
23 31 13 13-0657 LF 28" x 28", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	260.24	136.57
For Seal Class B, Add	34.14	
For Seal Class A, Add	72.84	
For Work In Restricted Working Space, Add	68.28	
23 31 13 13-0658 LF 28" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	269.55	141.44
For Seal Class B, Add	35.36	
For Seal Class A, Add	75.44	
For Work In Restricted Working Space, Add	70.72	
23 31 13 13-0659 LF 28" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.85	146.32
For Seal Class B, Add	36.58	
For Seal Class A, Add	78.04	
For Work In Restricted Working Space, Add	73.16	
23 31 13 13-0660 LF 28" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	288.13	151.20
For Seal Class B, Add	37.80	
For Seal Class A, Add	80.64	
For Work In Restricted Working Space, Add	75.60	
23 31 13 13-0661 LF 28" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	297.44	156.08
For Seal Class B, Add	39.02	
For Seal Class A, Add	83.24	
For Work In Restricted Working Space, Add	78.04	
23 31 13 13-0662 LF 28" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	306.72	160.95
For Seal Class B, Add	40.24	
For Seal Class A, Add	85.84	
For Work In Restricted Working Space, Add	80.48	
23 31 13 13-0663 LF 28" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	316.01	165.84
For Seal Class B, Add	41.46	
For Seal Class A, Add	88.44	
For Work In Restricted Working Space, Add	82.91	
23 31 13 13-0664 LF 28" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	325.32	170.71
For Seal Class B, Add	42.68	
For Seal Class A, Add	91.04	
For Work In Restricted Working Space, Add	85.35	
23 31 13 13-0665 LF 28" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	334.60	175.59
For Seal Class B, Add	43.90	
For Seal Class A, Add	93.64	
For Work In Restricted Working Space, Add	87.79	
23 31 13 13-0666 LF 28" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	343.91	180.46
For Seal Class B, Add	45.12	
For Seal Class A, Add	96.25	
For Work In Restricted Working Space, Add	90.23	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0667 LF 28" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	353.20	185.34
<i>For Seal Class B, Add</i>	46.34	
<i>For Seal Class A, Add</i>	98.85	
<i>For Work In Restricted Working Space, Add</i>	92.67	
23 31 13 13-0668 LF 30" x 30", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.85	146.32
<i>For Seal Class B, Add</i>	36.58	
<i>For Seal Class A, Add</i>	78.04	
<i>For Work In Restricted Working Space, Add</i>	73.16	
23 31 13 13-0669 LF 30" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	288.13	151.20
<i>For Seal Class B, Add</i>	37.80	
<i>For Seal Class A, Add</i>	80.64	
<i>For Work In Restricted Working Space, Add</i>	75.60	
23 31 13 13-0670 LF 30" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	297.44	156.08
<i>For Seal Class B, Add</i>	39.02	
<i>For Seal Class A, Add</i>	83.24	
<i>For Work In Restricted Working Space, Add</i>	78.04	
23 31 13 13-0671 LF 30" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	306.72	160.95
<i>For Seal Class B, Add</i>	40.24	
<i>For Seal Class A, Add</i>	85.84	
<i>For Work In Restricted Working Space, Add</i>	80.48	
23 31 13 13-0672 LF 30" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	316.01	165.84
<i>For Seal Class B, Add</i>	41.46	
<i>For Seal Class A, Add</i>	88.44	
<i>For Work In Restricted Working Space, Add</i>	82.91	
23 31 13 13-0673 LF 30" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	325.32	170.71
<i>For Seal Class B, Add</i>	42.68	
<i>For Seal Class A, Add</i>	91.04	
<i>For Work In Restricted Working Space, Add</i>	85.35	
23 31 13 13-0674 LF 30" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	334.60	175.59
<i>For Seal Class B, Add</i>	43.90	
<i>For Seal Class A, Add</i>	93.64	
<i>For Work In Restricted Working Space, Add</i>	87.79	
23 31 13 13-0675 LF 30" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	343.91	180.46
<i>For Seal Class B, Add</i>	45.12	
<i>For Seal Class A, Add</i>	96.25	
<i>For Work In Restricted Working Space, Add</i>	90.23	
23 31 13 13-0676 LF 30" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	353.20	185.34
<i>For Seal Class B, Add</i>	46.34	
<i>For Seal Class A, Add</i>	98.85	
<i>For Work In Restricted Working Space, Add</i>	92.67	
23 31 13 13-0677 LF 30" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	362.49	190.21
<i>For Seal Class B, Add</i>	47.55	
<i>For Seal Class A, Add</i>	101.45	
<i>For Work In Restricted Working Space, Add</i>	95.11	
23 31 13 13-0678 LF 32" x 32", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	297.44	156.08
<i>For Seal Class B, Add</i>	39.02	
<i>For Seal Class A, Add</i>	83.24	
<i>For Work In Restricted Working Space, Add</i>	78.04	
23 31 13 13-0679 LF 32" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	306.72	160.95
<i>For Seal Class B, Add</i>	40.24	
<i>For Seal Class A, Add</i>	85.84	
<i>For Work In Restricted Working Space, Add</i>	80.48	
23 31 13 13-0680 LF 32" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	316.01	165.84
<i>For Seal Class B, Add</i>	41.46	
<i>For Seal Class A, Add</i>	88.44	
<i>For Work In Restricted Working Space, Add</i>	82.91	
23 31 13 13-0681 LF 32" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	325.32	170.71
<i>For Seal Class B, Add</i>	42.68	
<i>For Seal Class A, Add</i>	91.04	
<i>For Work In Restricted Working Space, Add</i>	85.35	
23 31 13 13-0682 LF 32" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	334.60	175.59
<i>For Seal Class B, Add</i>	43.90	
<i>For Seal Class A, Add</i>	93.64	
<i>For Work In Restricted Working Space, Add</i>	87.79	
23 31 13 13-0683 LF 32" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	343.91	180.46
<i>For Seal Class B, Add</i>	45.12	
<i>For Seal Class A, Add</i>	96.25	
<i>For Work In Restricted Working Space, Add</i>	90.23	
23 31 13 13-0684 LF 32" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	353.20	185.34
<i>For Seal Class B, Add</i>	46.34	
<i>For Seal Class A, Add</i>	98.85	
<i>For Work In Restricted Working Space, Add</i>	92.67	
23 31 13 13-0685 LF 32" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	362.49	190.21
<i>For Seal Class B, Add</i>	47.55	
<i>For Seal Class A, Add</i>	101.45	
<i>For Work In Restricted Working Space, Add</i>	95.11	
23 31 13 13-0686 LF 32" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	371.79	195.10
<i>For Seal Class B, Add</i>	48.77	
<i>For Seal Class A, Add</i>	104.05	
<i>For Work In Restricted Working Space, Add</i>	97.55	
23 31 13 13-0687 LF 34" x 34", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	316.01	165.84
<i>For Seal Class B, Add</i>	41.46	
<i>For Seal Class A, Add</i>	88.44	
<i>For Work In Restricted Working Space, Add</i>	82.91	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0688 LF 34" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	325.32	170.71
For Seal Class B, Add	42.68	
For Seal Class A, Add	91.04	
For Work In Restricted Working Space, Add	85.35	
23 31 13 13-0689 LF 34" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	334.60	175.59
For Seal Class B, Add	43.90	
For Seal Class A, Add	93.64	
For Work In Restricted Working Space, Add	87.79	
23 31 13 13-0690 LF 34" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	343.91	180.46
For Seal Class B, Add	45.12	
For Seal Class A, Add	96.25	
For Work In Restricted Working Space, Add	90.23	
23 31 13 13-0691 LF 34" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	353.20	185.34
For Seal Class B, Add	46.34	
For Seal Class A, Add	98.85	
For Work In Restricted Working Space, Add	92.67	
23 31 13 13-0692 LF 34" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	362.49	190.21
For Seal Class B, Add	47.55	
For Seal Class A, Add	101.45	
For Work In Restricted Working Space, Add	95.11	
23 31 13 13-0693 LF 34" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	371.79	195.10
For Seal Class B, Add	48.77	
For Seal Class A, Add	104.05	
For Work In Restricted Working Space, Add	97.55	
23 31 13 13-0694 LF 34" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	381.07	199.97
For Seal Class B, Add	49.99	
For Seal Class A, Add	106.65	
For Work In Restricted Working Space, Add	99.98	
23 31 13 13-0695 LF 36" x 36", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	334.60	175.59
For Seal Class B, Add	43.90	
For Seal Class A, Add	93.64	
For Work In Restricted Working Space, Add	87.79	
23 31 13 13-0696 LF 36" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	343.91	180.46
For Seal Class B, Add	45.12	
For Seal Class A, Add	96.25	
For Work In Restricted Working Space, Add	90.23	
23 31 13 13-0697 LF 36" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	353.20	185.34
For Seal Class B, Add	46.34	
For Seal Class A, Add	98.85	
For Work In Restricted Working Space, Add	92.67	
23 31 13 13-0698 LF 36" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	362.49	190.21
For Seal Class B, Add	47.55	
For Seal Class A, Add	101.45	
For Work In Restricted Working Space, Add	95.11	
23 31 13 13-0699 LF 36" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	371.79	195.10
For Seal Class B, Add	48.77	
For Seal Class A, Add	104.05	
For Work In Restricted Working Space, Add	97.55	
23 31 13 13-0700 LF 36" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	381.07	199.97
For Seal Class B, Add	49.99	
For Seal Class A, Add	106.65	
For Work In Restricted Working Space, Add	99.98	
23 31 13 13-0701 LF 36" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	390.37	204.85
For Seal Class B, Add	51.21	
For Seal Class A, Add	109.25	
For Work In Restricted Working Space, Add	102.42	
23 31 13 13-0702 LF 38" x 38", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	353.20	185.34
For Seal Class B, Add	46.34	
For Seal Class A, Add	98.85	
For Work In Restricted Working Space, Add	92.67	
23 31 13 13-0703 LF 38" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	362.49	190.21
For Seal Class B, Add	47.55	
For Seal Class A, Add	101.45	
For Work In Restricted Working Space, Add	95.11	
23 31 13 13-0704 LF 38" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	371.79	195.10
For Seal Class B, Add	48.77	
For Seal Class A, Add	104.05	
For Work In Restricted Working Space, Add	97.55	
23 31 13 13-0705 LF 38" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	381.07	199.97
For Seal Class B, Add	49.99	
For Seal Class A, Add	106.65	
For Work In Restricted Working Space, Add	99.98	
23 31 13 13-0706 LF 38" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	390.37	204.85
For Seal Class B, Add	51.21	
For Seal Class A, Add	109.25	
For Work In Restricted Working Space, Add	102.42	
23 31 13 13-0707 LF 38" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	399.69	209.73
For Seal Class B, Add	52.43	
For Seal Class A, Add	111.86	
For Work In Restricted Working Space, Add	104.87	
23 31 13 13-0708 LF 38" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	408.97	214.61
For Seal Class B, Add	53.65	
For Seal Class A, Add	114.46	
For Work In Restricted Working Space, Add	107.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0709 LF 40" x 40", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	371.79	195.10
<i>For Seal Class B, Add</i>	48.77	
<i>For Seal Class A, Add</i>	104.05	
<i>For Work In Restricted Working Space, Add</i>	97.55	
23 31 13 13-0710 LF 40" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	381.07	199.97
<i>For Seal Class B, Add</i>	49.99	
<i>For Seal Class A, Add</i>	106.65	
<i>For Work In Restricted Working Space, Add</i>	99.98	
23 31 13 13-0711 LF 40" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	390.37	204.85
<i>For Seal Class B, Add</i>	51.21	
<i>For Seal Class A, Add</i>	109.25	
<i>For Work In Restricted Working Space, Add</i>	102.42	
23 31 13 13-0712 LF 40" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	399.69	209.73
<i>For Seal Class B, Add</i>	52.43	
<i>For Seal Class A, Add</i>	111.86	
<i>For Work In Restricted Working Space, Add</i>	104.87	
23 31 13 13-0713 LF 40" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	408.97	214.61
<i>For Seal Class B, Add</i>	53.65	
<i>For Seal Class A, Add</i>	114.46	
<i>For Work In Restricted Working Space, Add</i>	107.30	
23 31 13 13-0714 LF 40" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	418.27	219.48
<i>For Seal Class B, Add</i>	54.87	
<i>For Seal Class A, Add</i>	117.06	
<i>For Work In Restricted Working Space, Add</i>	109.74	
23 31 13 13-0715 LF 40" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	427.54	224.37
<i>For Seal Class B, Add</i>	56.09	
<i>For Seal Class A, Add</i>	119.66	
<i>For Work In Restricted Working Space, Add</i>	112.18	
23 31 13 13-0716 LF 40" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	436.85	229.24
<i>For Seal Class B, Add</i>	57.31	
<i>For Seal Class A, Add</i>	122.26	
<i>For Work In Restricted Working Space, Add</i>	114.62	
23 31 13 13-0717 LF 40" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	446.14	234.12
<i>For Seal Class B, Add</i>	58.53	
<i>For Seal Class A, Add</i>	124.86	
<i>For Work In Restricted Working Space, Add</i>	117.05	
23 31 13 13-0718 LF 42" x 42", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	390.37	204.85
<i>For Seal Class B, Add</i>	51.21	
<i>For Seal Class A, Add</i>	109.25	
<i>For Work In Restricted Working Space, Add</i>	102.42	
23 31 13 13-0719 LF 42" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	399.69	209.73
<i>For Seal Class B, Add</i>	52.43	
<i>For Seal Class A, Add</i>	111.86	
<i>For Work In Restricted Working Space, Add</i>	104.87	
23 31 13 13-0720 LF 42" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	408.97	214.61
<i>For Seal Class B, Add</i>	53.65	
<i>For Seal Class A, Add</i>	114.46	
<i>For Work In Restricted Working Space, Add</i>	107.30	
23 31 13 13-0721 LF 42" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	418.27	219.48
<i>For Seal Class B, Add</i>	54.87	
<i>For Seal Class A, Add</i>	117.06	
<i>For Work In Restricted Working Space, Add</i>	109.74	
23 31 13 13-0722 LF 42" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	427.54	224.37
<i>For Seal Class B, Add</i>	56.09	
<i>For Seal Class A, Add</i>	119.66	
<i>For Work In Restricted Working Space, Add</i>	112.18	
23 31 13 13-0723 LF 42" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	436.85	229.24
<i>For Seal Class B, Add</i>	57.31	
<i>For Seal Class A, Add</i>	122.26	
<i>For Work In Restricted Working Space, Add</i>	114.62	
23 31 13 13-0724 LF 42" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	446.14	234.12
<i>For Seal Class B, Add</i>	58.53	
<i>For Seal Class A, Add</i>	124.86	
<i>For Work In Restricted Working Space, Add</i>	117.05	
23 31 13 13-0725 LF 42" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	455.42	238.99
<i>For Seal Class B, Add</i>	59.75	
<i>For Seal Class A, Add</i>	127.46	
<i>For Work In Restricted Working Space, Add</i>	119.49	
23 31 13 13-0726 LF 44" x 44", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	408.97	214.61
<i>For Seal Class B, Add</i>	53.65	
<i>For Seal Class A, Add</i>	114.46	
<i>For Work In Restricted Working Space, Add</i>	107.30	
23 31 13 13-0727 LF 44" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	418.27	219.48
<i>For Seal Class B, Add</i>	54.87	
<i>For Seal Class A, Add</i>	117.06	
<i>For Work In Restricted Working Space, Add</i>	109.74	
23 31 13 13-0728 LF 44" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	427.54	224.37
<i>For Seal Class B, Add</i>	56.09	
<i>For Seal Class A, Add</i>	119.66	
<i>For Work In Restricted Working Space, Add</i>	112.18	
23 31 13 13-0729 LF 44" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	436.85	229.24
<i>For Seal Class B, Add</i>	57.31	
<i>For Seal Class A, Add</i>	122.26	
<i>For Work In Restricted Working Space, Add</i>	114.62	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0730 LF 44" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	446.14	234.12
For Seal Class B, Add	58.53	
For Seal Class A, Add	124.86	
For Work In Restricted Working Space, Add	117.05	
23 31 13 13-0731 LF 44" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	455.42	238.99
For Seal Class B, Add	59.75	
For Seal Class A, Add	127.46	
For Work In Restricted Working Space, Add	119.49	
23 31 13 13-0732 LF 44" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	464.75	243.87
For Seal Class B, Add	60.97	
For Seal Class A, Add	130.07	
For Work In Restricted Working Space, Add	121.94	
23 31 13 13-0733 LF 46" x 46", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	427.54	224.37
For Seal Class B, Add	56.09	
For Seal Class A, Add	119.66	
For Work In Restricted Working Space, Add	112.18	
23 31 13 13-0734 LF 46" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	436.85	229.24
For Seal Class B, Add	57.31	
For Seal Class A, Add	122.26	
For Work In Restricted Working Space, Add	114.62	
23 31 13 13-0735 LF 46" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	446.14	234.12
For Seal Class B, Add	58.53	
For Seal Class A, Add	124.86	
For Work In Restricted Working Space, Add	117.05	
23 31 13 13-0736 LF 46" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	455.42	238.99
For Seal Class B, Add	59.75	
For Seal Class A, Add	127.46	
For Work In Restricted Working Space, Add	119.49	
23 31 13 13-0737 LF 46" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	464.75	243.87
For Seal Class B, Add	60.97	
For Seal Class A, Add	130.07	
For Work In Restricted Working Space, Add	121.94	
23 31 13 13-0738 LF 46" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	482.17	253.63
For Seal Class B, Add	63.41	
For Seal Class A, Add	135.27	
For Work In Restricted Working Space, Add	126.81	
23 31 13 13-0739 LF 46" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	491.44	258.50
For Seal Class B, Add	64.62	
For Seal Class A, Add	137.87	
For Work In Restricted Working Space, Add	129.25	
23 31 13 13-0740 LF 48" x 48", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	446.14	234.12
For Seal Class B, Add	58.53	
For Seal Class A, Add	124.86	
For Work In Restricted Working Space, Add	117.05	
23 31 13 13-0741 LF 48" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	455.42	238.99
For Seal Class B, Add	59.75	
For Seal Class A, Add	127.46	
For Work In Restricted Working Space, Add	119.49	
23 31 13 13-0742 LF 48" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	464.75	243.87
For Seal Class B, Add	60.97	
For Seal Class A, Add	130.07	
For Work In Restricted Working Space, Add	121.94	
23 31 13 13-0743 LF 48" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	474.04	248.74
For Seal Class B, Add	62.19	
For Seal Class A, Add	132.67	
For Work In Restricted Working Space, Add	124.37	
23 31 13 13-0744 LF 48" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	483.32	253.63
For Seal Class B, Add	63.41	
For Seal Class A, Add	135.27	
For Work In Restricted Working Space, Add	126.81	
23 31 13 13-0745 LF 48" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	492.62	258.50
For Seal Class B, Add	64.62	
For Seal Class A, Add	137.87	
For Work In Restricted Working Space, Add	129.25	
23 31 13 13-0746 LF 48" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	501.90	263.39
For Seal Class B, Add	65.84	
For Seal Class A, Add	140.47	
For Work In Restricted Working Space, Add	131.69	
23 31 13 13-0747 LF 50" x 50", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	464.75	243.87
For Seal Class B, Add	60.97	
For Seal Class A, Add	130.07	
For Work In Restricted Working Space, Add	121.94	
23 31 13 13-0748 LF 50" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	474.04	248.74
For Seal Class B, Add	62.19	
For Seal Class A, Add	132.67	
For Work In Restricted Working Space, Add	124.37	
23 31 13 13-0749 LF 50" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	483.32	253.63
For Seal Class B, Add	63.41	
For Seal Class A, Add	135.27	
For Work In Restricted Working Space, Add	126.81	
23 31 13 13-0750 LF 50" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	492.62	258.50
For Seal Class B, Add	64.62	
For Seal Class A, Add	137.87	
For Work In Restricted Working Space, Add	129.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0751 LF 50" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	501.90	263.39
<i>For Seal Class B, Add</i>	65.84	
<i>For Seal Class A, Add</i>	140.47	
<i>For Work In Restricted Working Space, Add</i>	131.69	
23 31 13 13-0752 LF 50" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	511.20	268.26
<i>For Seal Class B, Add</i>	67.06	
<i>For Seal Class A, Add</i>	143.07	
<i>For Work In Restricted Working Space, Add</i>	134.13	
23 31 13 13-0753 LF 52" x 52", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	483.32	253.63
<i>For Seal Class B, Add</i>	63.41	
<i>For Seal Class A, Add</i>	135.27	
<i>For Work In Restricted Working Space, Add</i>	126.81	
23 31 13 13-0754 LF 52" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	492.62	258.50
<i>For Seal Class B, Add</i>	64.62	
<i>For Seal Class A, Add</i>	137.87	
<i>For Work In Restricted Working Space, Add</i>	129.25	
23 31 13 13-0755 LF 52" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	501.90	263.39
<i>For Seal Class B, Add</i>	65.84	
<i>For Seal Class A, Add</i>	140.47	
<i>For Work In Restricted Working Space, Add</i>	131.69	
23 31 13 13-0756 LF 52" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	511.20	268.26
<i>For Seal Class B, Add</i>	67.06	
<i>For Seal Class A, Add</i>	143.07	
<i>For Work In Restricted Working Space, Add</i>	134.13	
23 31 13 13-0757 LF 52" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	520.52	273.14
<i>For Seal Class B, Add</i>	68.28	
<i>For Seal Class A, Add</i>	145.67	
<i>For Work In Restricted Working Space, Add</i>	136.57	
23 31 13 13-0758 LF 54" x 54", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	501.90	263.39
<i>For Seal Class B, Add</i>	65.84	
<i>For Seal Class A, Add</i>	140.47	
<i>For Work In Restricted Working Space, Add</i>	131.69	
23 31 13 13-0759 LF 54" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	511.20	268.26
<i>For Seal Class B, Add</i>	67.06	
<i>For Seal Class A, Add</i>	143.07	
<i>For Work In Restricted Working Space, Add</i>	134.13	
23 31 13 13-0760 LF 54" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	520.52	273.14
<i>For Seal Class B, Add</i>	68.28	
<i>For Seal Class A, Add</i>	145.67	
<i>For Work In Restricted Working Space, Add</i>	136.57	
23 31 13 13-0761 LF 54" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	529.80	278.02
<i>For Seal Class B, Add</i>	69.50	
<i>For Seal Class A, Add</i>	148.28	
<i>For Work In Restricted Working Space, Add</i>	139.01	
23 31 13 13-0762 LF 54" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	539.09	282.88
<i>For Seal Class B, Add</i>	70.72	
<i>For Seal Class A, Add</i>	150.87	
<i>For Work In Restricted Working Space, Add</i>	141.44	
23 31 13 13-0763 LF 54" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	548.38	287.76
<i>For Seal Class B, Add</i>	71.94	
<i>For Seal Class A, Add</i>	153.48	
<i>For Work In Restricted Working Space, Add</i>	143.88	
23 31 13 13-0764 LF 56" x 56", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	520.52	273.14
<i>For Seal Class B, Add</i>	68.28	
<i>For Seal Class A, Add</i>	145.67	
<i>For Work In Restricted Working Space, Add</i>	136.57	
23 31 13 13-0765 LF 56" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	529.80	278.02
<i>For Seal Class B, Add</i>	69.50	
<i>For Seal Class A, Add</i>	148.28	
<i>For Work In Restricted Working Space, Add</i>	139.01	
23 31 13 13-0766 LF 56" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	539.09	282.88
<i>For Seal Class B, Add</i>	70.72	
<i>For Seal Class A, Add</i>	150.87	
<i>For Work In Restricted Working Space, Add</i>	141.44	
23 31 13 13-0767 LF 56" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	548.38	287.76
<i>For Seal Class B, Add</i>	71.94	
<i>For Seal Class A, Add</i>	153.48	
<i>For Work In Restricted Working Space, Add</i>	143.88	
23 31 13 13-0768 LF 56" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	557.67	292.64
<i>For Seal Class B, Add</i>	73.16	
<i>For Seal Class A, Add</i>	156.07	
<i>For Work In Restricted Working Space, Add</i>	146.32	
23 31 13 13-0769 LF 58" x 58", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	539.09	282.88
<i>For Seal Class B, Add</i>	70.72	
<i>For Seal Class A, Add</i>	150.87	
<i>For Work In Restricted Working Space, Add</i>	141.44	
23 31 13 13-0770 LF 58" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	548.38	287.76
<i>For Seal Class B, Add</i>	71.94	
<i>For Seal Class A, Add</i>	153.48	
<i>For Work In Restricted Working Space, Add</i>	143.88	
23 31 13 13-0771 LF 58" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	557.67	292.64
<i>For Seal Class B, Add</i>	73.16	
<i>For Seal Class A, Add</i>	156.07	
<i>For Work In Restricted Working Space, Add</i>	146.32	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0772 LF 58" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	566.98	297.52
For Seal Class B, Add	74.38	
For Seal Class A, Add	158.68	
For Work In Restricted Working Space, Add	148.76	
23 31 13 13-0773 LF 58" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	576.26	302.39
For Seal Class B, Add	75.60	
For Seal Class A, Add	161.28	
For Work In Restricted Working Space, Add	151.20	
23 31 13 13-0774 LF 60" x 60", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	557.67	292.64
For Seal Class B, Add	73.16	
For Seal Class A, Add	156.07	
For Work In Restricted Working Space, Add	146.32	
23 31 13 13-0775 LF 60" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	566.98	297.52
For Seal Class B, Add	74.38	
For Seal Class A, Add	158.68	
For Work In Restricted Working Space, Add	148.76	
23 31 13 13-0776 LF 60" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	576.26	302.39
For Seal Class B, Add	75.60	
For Seal Class A, Add	161.28	
For Work In Restricted Working Space, Add	151.20	
23 31 13 13-0777 LF 60" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	585.57	307.28
For Seal Class B, Add	76.82	
For Seal Class A, Add	163.88	
For Work In Restricted Working Space, Add	153.64	
23 31 13 13-0778 LF 60" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	594.87	312.15
For Seal Class B, Add	78.04	
For Seal Class A, Add	166.48	
For Work In Restricted Working Space, Add	156.08	
23 31 13 13-0779 LF 62" x 62", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	576.26	302.39
For Seal Class B, Add	75.60	
For Seal Class A, Add	161.28	
For Work In Restricted Working Space, Add	151.20	
23 31 13 13-0780 LF 62" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	585.57	307.28
For Seal Class B, Add	76.82	
For Seal Class A, Add	163.88	
For Work In Restricted Working Space, Add	153.64	
23 31 13 13-0781 LF 62" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	594.87	312.15
For Seal Class B, Add	78.04	
For Seal Class A, Add	166.48	
For Work In Restricted Working Space, Add	156.08	
23 31 13 13-0782 LF 62" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	604.15	317.03
For Seal Class B, Add	79.26	
For Seal Class A, Add	169.08	
For Work In Restricted Working Space, Add	158.51	
23 31 13 13-0783 LF 62" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	613.46	321.91
For Seal Class B, Add	80.48	
For Seal Class A, Add	171.69	
For Work In Restricted Working Space, Add	160.96	
23 31 13 13-0784 LF 64" x 64", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	594.87	312.15
For Seal Class B, Add	78.04	
For Seal Class A, Add	166.48	
For Work In Restricted Working Space, Add	156.08	
23 31 13 13-0785 LF 64" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	604.15	317.03
For Seal Class B, Add	79.26	
For Seal Class A, Add	169.08	
For Work In Restricted Working Space, Add	158.51	
23 31 13 13-0786 LF 64" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	613.46	321.91
For Seal Class B, Add	80.48	
For Seal Class A, Add	171.69	
For Work In Restricted Working Space, Add	160.96	
23 31 13 13-0787 LF 64" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	622.73	326.79
For Seal Class B, Add	81.70	
For Seal Class A, Add	174.28	
For Work In Restricted Working Space, Add	163.39	
23 31 13 13-0788 LF 66" x 66", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	613.46	321.91
For Seal Class B, Add	80.48	
For Seal Class A, Add	171.69	
For Work In Restricted Working Space, Add	160.96	
23 31 13 13-0789 LF 66" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	622.73	326.79
For Seal Class B, Add	81.70	
For Seal Class A, Add	174.28	
For Work In Restricted Working Space, Add	163.39	
23 31 13 13-0790 LF 66" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	632.04	331.65
For Seal Class B, Add	82.92	
For Seal Class A, Add	176.89	
For Work In Restricted Working Space, Add	165.83	
23 31 13 13-0791 LF 66" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	641.33	336.54
For Seal Class B, Add	84.13	
For Seal Class A, Add	179.48	
For Work In Restricted Working Space, Add	168.27	
23 31 13 13-0792 LF 68" x 68", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	632.04	331.65
For Seal Class B, Add	82.92	
For Seal Class A, Add	176.89	
For Work In Restricted Working Space, Add	165.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0793 LF 68" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	641.33	336.54
For Seal Class B, Add	84.13	
For Seal Class A, Add	179.48	
For Work In Restricted Working Space, Add	168.27	
23 31 13 13-0794 LF 68" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	650.62	341.41
For Seal Class B, Add	85.35	
For Seal Class A, Add	182.09	
For Work In Restricted Working Space, Add	170.71	
23 31 13 13-0795 LF 68" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	659.93	346.29
For Seal Class B, Add	86.57	
For Seal Class A, Add	184.69	
For Work In Restricted Working Space, Add	173.15	
23 31 13 13-0796 LF 70" x 70", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	650.62	341.41
For Seal Class B, Add	85.35	
For Seal Class A, Add	182.09	
For Work In Restricted Working Space, Add	170.71	
23 31 13 13-0797 LF 70" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	659.93	346.29
For Seal Class B, Add	86.57	
For Seal Class A, Add	184.69	
For Work In Restricted Working Space, Add	173.15	
23 31 13 13-0798 LF 70" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	669.23	351.17
For Seal Class B, Add	87.79	
For Seal Class A, Add	187.29	
For Work In Restricted Working Space, Add	175.59	
23 31 13 13-0799 LF 70" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	678.51	356.05
For Seal Class B, Add	89.01	
For Seal Class A, Add	189.89	
For Work In Restricted Working Space, Add	178.03	
23 31 13 13-0800 LF 70" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	687.81	360.92
For Seal Class B, Add	90.23	
For Seal Class A, Add	192.49	
For Work In Restricted Working Space, Add	180.46	
23 31 13 13-0801 LF 70" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	697.09	365.81
For Seal Class B, Add	91.45	
For Seal Class A, Add	195.09	
For Work In Restricted Working Space, Add	182.90	
23 31 13 13-0802 LF 70" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	706.39	370.68
For Seal Class B, Add	92.67	
For Seal Class A, Add	197.70	
For Work In Restricted Working Space, Add	185.34	
23 31 13 13-0803 LF 70" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	715.71	375.56
For Seal Class B, Add	93.89	
For Seal Class A, Add	200.30	
For Work In Restricted Working Space, Add	187.78	
23 31 13 13-0804 LF 72" x 72", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	669.23	351.17
For Seal Class B, Add	87.79	
For Seal Class A, Add	187.29	
For Work In Restricted Working Space, Add	175.59	
23 31 13 13-0805 LF 72" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	678.51	356.05
For Seal Class B, Add	89.01	
For Seal Class A, Add	189.89	
For Work In Restricted Working Space, Add	178.03	
23 31 13 13-0806 LF 72" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	687.81	360.92
For Seal Class B, Add	90.23	
For Seal Class A, Add	192.49	
For Work In Restricted Working Space, Add	180.46	
23 31 13 13-0807 LF 72" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	697.09	365.81
For Seal Class B, Add	91.45	
For Seal Class A, Add	195.09	
For Work In Restricted Working Space, Add	182.90	
23 31 13 13-0808 LF 72" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	706.39	370.68
For Seal Class B, Add	92.67	
For Seal Class A, Add	197.70	
For Work In Restricted Working Space, Add	185.34	
23 31 13 13-0809 LF 72" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	715.71	375.56
For Seal Class B, Add	93.89	
For Seal Class A, Add	200.30	
For Work In Restricted Working Space, Add	187.78	
23 31 13 13-0810 LF 72" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	724.99	380.44
For Seal Class B, Add	95.11	
For Seal Class A, Add	202.90	
For Work In Restricted Working Space, Add	190.22	
23 31 13 13-0811 LF 74" x 74", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	687.81	360.92
For Seal Class B, Add	90.23	
For Seal Class A, Add	192.49	
For Work In Restricted Working Space, Add	180.46	
23 31 13 13-0812 LF 74" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	697.09	365.81
For Seal Class B, Add	91.45	
For Seal Class A, Add	195.09	
For Work In Restricted Working Space, Add	182.90	
23 31 13 13-0813 LF 74" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	706.39	370.68
For Seal Class B, Add	92.67	
For Seal Class A, Add	197.70	
For Work In Restricted Working Space, Add	185.34	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0814 LF 74" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	715.71	375.56
For Seal Class B, Add	93.89	
For Seal Class A, Add	200.30	
For Work In Restricted Working Space, Add	187.78	
23 31 13 13-0815 LF 74" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	724.99	380.44
For Seal Class B, Add	95.11	
For Seal Class A, Add	202.90	
For Work In Restricted Working Space, Add	190.22	
23 31 13 13-0816 LF 74" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	734.28	385.32
For Seal Class B, Add	96.33	
For Seal Class A, Add	205.50	
For Work In Restricted Working Space, Add	192.66	
23 31 13 13-0817 LF 76" x 76", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	706.39	370.68
For Seal Class B, Add	92.67	
For Seal Class A, Add	197.70	
For Work In Restricted Working Space, Add	185.34	
23 31 13 13-0818 LF 76" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	715.71	375.56
For Seal Class B, Add	93.89	
For Seal Class A, Add	200.30	
For Work In Restricted Working Space, Add	187.78	
23 31 13 13-0819 LF 76" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	724.99	380.44
For Seal Class B, Add	95.11	
For Seal Class A, Add	202.90	
For Work In Restricted Working Space, Add	190.22	
23 31 13 13-0820 LF 76" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	734.28	385.32
For Seal Class B, Add	96.33	
For Seal Class A, Add	205.50	
For Work In Restricted Working Space, Add	192.66	
23 31 13 13-0821 LF 76" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	743.57	390.18
For Seal Class B, Add	97.55	
For Seal Class A, Add	208.10	
For Work In Restricted Working Space, Add	195.10	
23 31 13 13-0822 LF 78" x 78", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	724.99	380.44
For Seal Class B, Add	95.11	
For Seal Class A, Add	202.90	
For Work In Restricted Working Space, Add	190.22	
23 31 13 13-0823 LF 78" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	734.28	385.32
For Seal Class B, Add	96.33	
For Seal Class A, Add	205.50	
For Work In Restricted Working Space, Add	192.66	
23 31 13 13-0824 LF 78" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	743.57	390.18
For Seal Class B, Add	97.55	
For Seal Class A, Add	208.10	
For Work In Restricted Working Space, Add	195.10	
23 31 13 13-0825 LF 78" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	752.86	395.07
For Seal Class B, Add	98.77	
For Seal Class A, Add	210.70	
For Work In Restricted Working Space, Add	197.53	
23 31 13 13-0826 LF 80" x 80", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	743.57	390.18
For Seal Class B, Add	97.55	
For Seal Class A, Add	208.10	
For Work In Restricted Working Space, Add	195.10	
23 31 13 13-0827 LF 80" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	752.86	395.07
For Seal Class B, Add	98.77	
For Seal Class A, Add	210.70	
For Work In Restricted Working Space, Add	197.53	
23 31 13 13-0828 LF 80" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	762.16	399.94
For Seal Class B, Add	99.99	
For Seal Class A, Add	213.30	
For Work In Restricted Working Space, Add	199.97	
23 31 13 13-0829 LF 82" x 82", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	762.16	399.94
For Seal Class B, Add	99.99	
For Seal Class A, Add	213.30	
For Work In Restricted Working Space, Add	199.97	
23 31 13 13-0830 LF 82" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	771.46	404.82
For Seal Class B, Add	101.21	
For Seal Class A, Add	215.91	
For Work In Restricted Working Space, Add	202.41	
23 31 13 13-0831 LF 84" x 84", 20 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	780.76	409.70
For Seal Class B, Add	102.43	
For Seal Class A, Add	218.51	
For Work In Restricted Working Space, Add	204.85	
<b>23 31 13 13-0832 18 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)</b>		
23 31 13 13-0833 LF 4" x 4", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	48.41	25.39
For Seal Class B, Add	6.35	
For Seal Class A, Add	13.55	
For Work In Restricted Working Space, Add	12.70	
23 31 13 13-0834 LF 4" x 6", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	60.51	31.75
For Seal Class B, Add	7.94	
For Seal Class A, Add	16.93	
For Work In Restricted Working Space, Add	15.88	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0835 LF 4" x 8", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	72.61	38.10
<i>For Seal Class B, Add</i>	9.53	
<i>For Seal Class A, Add</i>	20.32	
<i>For Work In Restricted Working Space, Add</i>	19.05	
23 31 13 13-0836 LF 4" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	84.70	44.45
<i>For Seal Class B, Add</i>	11.11	
<i>For Seal Class A, Add</i>	23.71	
<i>For Work In Restricted Working Space, Add</i>	22.23	
23 31 13 13-0837 LF 4" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	96.81	50.81
<i>For Seal Class B, Add</i>	12.70	
<i>For Seal Class A, Add</i>	27.09	
<i>For Work In Restricted Working Space, Add</i>	25.40	
23 31 13 13-0838 LF 4" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	108.90	57.15
<i>For Seal Class B, Add</i>	14.29	
<i>For Seal Class A, Add</i>	30.48	
<i>For Work In Restricted Working Space, Add</i>	28.57	
23 31 13 13-0839 LF 4" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	121.02	63.51
<i>For Seal Class B, Add</i>	15.88	
<i>For Seal Class A, Add</i>	33.87	
<i>For Work In Restricted Working Space, Add</i>	31.75	
23 31 13 13-0840 LF 6" x 6", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	72.61	38.10
<i>For Seal Class B, Add</i>	9.53	
<i>For Seal Class A, Add</i>	20.32	
<i>For Work In Restricted Working Space, Add</i>	19.05	
23 31 13 13-0841 LF 6" x 8", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	84.70	44.45
<i>For Seal Class B, Add</i>	11.11	
<i>For Seal Class A, Add</i>	23.71	
<i>For Work In Restricted Working Space, Add</i>	22.23	
23 31 13 13-0842 LF 6" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	96.81	50.81
<i>For Seal Class B, Add</i>	12.70	
<i>For Seal Class A, Add</i>	27.09	
<i>For Work In Restricted Working Space, Add</i>	25.40	
23 31 13 13-0843 LF 6" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	108.90	57.15
<i>For Seal Class B, Add</i>	14.29	
<i>For Seal Class A, Add</i>	30.48	
<i>For Work In Restricted Working Space, Add</i>	28.57	
23 31 13 13-0844 LF 6" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	121.02	63.51
<i>For Seal Class B, Add</i>	15.88	
<i>For Seal Class A, Add</i>	33.87	
<i>For Work In Restricted Working Space, Add</i>	31.75	
23 31 13 13-0845 LF 6" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	133.11	69.85
<i>For Seal Class B, Add</i>	17.46	
<i>For Seal Class A, Add</i>	37.25	
<i>For Work In Restricted Working Space, Add</i>	34.93	
23 31 13 13-0846 LF 8" x 8", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	96.81	50.81
<i>For Seal Class B, Add</i>	12.70	
<i>For Seal Class A, Add</i>	27.09	
<i>For Work In Restricted Working Space, Add</i>	25.40	
23 31 13 13-0847 LF 8" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	108.90	57.15
<i>For Seal Class B, Add</i>	14.29	
<i>For Seal Class A, Add</i>	30.48	
<i>For Work In Restricted Working Space, Add</i>	28.57	
23 31 13 13-0848 LF 8" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	121.02	63.51
<i>For Seal Class B, Add</i>	15.88	
<i>For Seal Class A, Add</i>	33.87	
<i>For Work In Restricted Working Space, Add</i>	31.75	
23 31 13 13-0849 LF 8" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	133.11	69.85
<i>For Seal Class B, Add</i>	17.46	
<i>For Seal Class A, Add</i>	37.25	
<i>For Work In Restricted Working Space, Add</i>	34.93	
23 31 13 13-0850 LF 8" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	145.20	76.20
<i>For Seal Class B, Add</i>	19.05	
<i>For Seal Class A, Add</i>	40.64	
<i>For Work In Restricted Working Space, Add</i>	38.10	
23 31 13 13-0851 LF 8" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	157.32	82.55
<i>For Seal Class B, Add</i>	20.64	
<i>For Seal Class A, Add</i>	44.03	
<i>For Work In Restricted Working Space, Add</i>	41.27	
23 31 13 13-0852 LF 8" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	169.42	88.90
<i>For Seal Class B, Add</i>	22.23	
<i>For Seal Class A, Add</i>	47.41	
<i>For Work In Restricted Working Space, Add</i>	44.45	
23 31 13 13-0853 LF 8" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.51	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.63	
23 31 13 13-0854 LF 8" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	193.61	101.60
<i>For Seal Class B, Add</i>	25.40	
<i>For Seal Class A, Add</i>	54.19	
<i>For Work In Restricted Working Space, Add</i>	50.80	
23 31 13 13-0855 LF 10" x 10", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	121.02	63.51
<i>For Seal Class B, Add</i>	15.88	
<i>For Seal Class A, Add</i>	33.87	
<i>For Work In Restricted Working Space, Add</i>	31.75	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0856	LF	10" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	133.11	69.85
			<i>For Seal Class B, Add</i>	17.46	
			<i>For Seal Class A, Add</i>	37.25	
			<i>For Work In Restricted Working Space, Add</i>	34.93	
23 31 13	13-0857	LF	10" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	145.20	76.20
			<i>For Seal Class B, Add</i>	19.05	
			<i>For Seal Class A, Add</i>	40.64	
			<i>For Work In Restricted Working Space, Add</i>	38.10	
23 31 13	13-0858	LF	10" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	157.32	82.55
			<i>For Seal Class B, Add</i>	20.64	
			<i>For Seal Class A, Add</i>	44.03	
			<i>For Work In Restricted Working Space, Add</i>	41.27	
23 31 13	13-0859	LF	10" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	169.42	88.90
			<i>For Seal Class B, Add</i>	22.23	
			<i>For Seal Class A, Add</i>	47.41	
			<i>For Work In Restricted Working Space, Add</i>	44.45	
23 31 13	13-0860	LF	10" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.51	95.24
			<i>For Seal Class B, Add</i>	23.81	
			<i>For Seal Class A, Add</i>	50.80	
			<i>For Work In Restricted Working Space, Add</i>	47.63	
23 31 13	13-0861	LF	10" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	193.61	101.60
			<i>For Seal Class B, Add</i>	25.40	
			<i>For Seal Class A, Add</i>	54.19	
			<i>For Work In Restricted Working Space, Add</i>	50.80	
23 31 13	13-0862	LF	10" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.71	107.96
			<i>For Seal Class B, Add</i>	26.99	
			<i>For Seal Class A, Add</i>	57.57	
			<i>For Work In Restricted Working Space, Add</i>	53.98	
23 31 13	13-0863	LF	10" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	217.84	114.30
			<i>For Seal Class B, Add</i>	28.58	
			<i>For Seal Class A, Add</i>	60.96	
			<i>For Work In Restricted Working Space, Add</i>	57.15	
23 31 13	13-0864	LF	10" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	229.93	120.66
			<i>For Seal Class B, Add</i>	30.16	
			<i>For Seal Class A, Add</i>	64.35	
			<i>For Work In Restricted Working Space, Add</i>	60.33	
23 31 13	13-0865	LF	10" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	242.02	127.00
			<i>For Seal Class B, Add</i>	31.75	
			<i>For Seal Class A, Add</i>	67.73	
			<i>For Work In Restricted Working Space, Add</i>	63.50	
23 31 13	13-0866	LF	10" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	254.11	133.35
			<i>For Seal Class B, Add</i>	33.34	
			<i>For Seal Class A, Add</i>	71.12	
			<i>For Work In Restricted Working Space, Add</i>	66.68	
23 31 13	13-0867	LF	12" x 12", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	145.20	76.20
			<i>For Seal Class B, Add</i>	19.05	
			<i>For Seal Class A, Add</i>	40.64	
			<i>For Work In Restricted Working Space, Add</i>	38.10	
23 31 13	13-0868	LF	12" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	157.32	82.55
			<i>For Seal Class B, Add</i>	20.64	
			<i>For Seal Class A, Add</i>	44.03	
			<i>For Work In Restricted Working Space, Add</i>	41.27	
23 31 13	13-0869	LF	12" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	169.42	88.90
			<i>For Seal Class B, Add</i>	22.23	
			<i>For Seal Class A, Add</i>	47.41	
			<i>For Work In Restricted Working Space, Add</i>	44.45	
23 31 13	13-0870	LF	12" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.51	95.24
			<i>For Seal Class B, Add</i>	23.81	
			<i>For Seal Class A, Add</i>	50.80	
			<i>For Work In Restricted Working Space, Add</i>	47.63	
23 31 13	13-0871	LF	12" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	193.61	101.60
			<i>For Seal Class B, Add</i>	25.40	
			<i>For Seal Class A, Add</i>	54.19	
			<i>For Work In Restricted Working Space, Add</i>	50.80	
23 31 13	13-0872	LF	12" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.71	107.96
			<i>For Seal Class B, Add</i>	26.99	
			<i>For Seal Class A, Add</i>	57.57	
			<i>For Work In Restricted Working Space, Add</i>	53.98	
23 31 13	13-0873	LF	12" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	217.84	114.30
			<i>For Seal Class B, Add</i>	28.58	
			<i>For Seal Class A, Add</i>	60.96	
			<i>For Work In Restricted Working Space, Add</i>	57.15	
23 31 13	13-0874	LF	12" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	229.93	120.66
			<i>For Seal Class B, Add</i>	30.16	
			<i>For Seal Class A, Add</i>	64.35	
			<i>For Work In Restricted Working Space, Add</i>	60.33	
23 31 13	13-0875	LF	12" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	242.02	127.00
			<i>For Seal Class B, Add</i>	31.75	
			<i>For Seal Class A, Add</i>	67.73	
			<i>For Work In Restricted Working Space, Add</i>	63.50	
23 31 13	13-0876	LF	12" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	254.11	133.35
			<i>For Seal Class B, Add</i>	33.34	
			<i>For Seal Class A, Add</i>	71.12	
			<i>For Work In Restricted Working Space, Add</i>	66.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0877 LF 12" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	266.21	139.70
<i>For Seal Class B, Add</i>	34.92	
<i>For Seal Class A, Add</i>	74.51	
<i>For Work In Restricted Working Space, Add</i>	69.85	
23 31 13 13-0878 LF 12" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.32	146.05
<i>For Seal Class B, Add</i>	36.51	
<i>For Seal Class A, Add</i>	77.89	
<i>For Work In Restricted Working Space, Add</i>	73.02	
23 31 13 13-0879 LF 12" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	290.43	152.39
<i>For Seal Class B, Add</i>	38.10	
<i>For Seal Class A, Add</i>	81.28	
<i>For Work In Restricted Working Space, Add</i>	76.20	
23 31 13 13-0880 LF 14" x 14", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	169.42	88.90
<i>For Seal Class B, Add</i>	22.23	
<i>For Seal Class A, Add</i>	47.41	
<i>For Work In Restricted Working Space, Add</i>	44.45	
23 31 13 13-0881 LF 14" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	181.51	95.24
<i>For Seal Class B, Add</i>	23.81	
<i>For Seal Class A, Add</i>	50.80	
<i>For Work In Restricted Working Space, Add</i>	47.63	
23 31 13 13-0882 LF 14" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	193.61	101.60
<i>For Seal Class B, Add</i>	25.40	
<i>For Seal Class A, Add</i>	54.19	
<i>For Work In Restricted Working Space, Add</i>	50.80	
23 31 13 13-0883 LF 14" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.71	107.96
<i>For Seal Class B, Add</i>	26.99	
<i>For Seal Class A, Add</i>	57.57	
<i>For Work In Restricted Working Space, Add</i>	53.98	
23 31 13 13-0884 LF 14" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	217.84	114.30
<i>For Seal Class B, Add</i>	28.58	
<i>For Seal Class A, Add</i>	60.96	
<i>For Work In Restricted Working Space, Add</i>	57.15	
23 31 13 13-0885 LF 14" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	229.93	120.66
<i>For Seal Class B, Add</i>	30.16	
<i>For Seal Class A, Add</i>	64.35	
<i>For Work In Restricted Working Space, Add</i>	60.33	
23 31 13 13-0886 LF 14" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	242.02	127.00
<i>For Seal Class B, Add</i>	31.75	
<i>For Seal Class A, Add</i>	67.73	
<i>For Work In Restricted Working Space, Add</i>	63.50	
23 31 13 13-0887 LF 14" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	254.11	133.35
<i>For Seal Class B, Add</i>	33.34	
<i>For Seal Class A, Add</i>	71.12	
<i>For Work In Restricted Working Space, Add</i>	66.68	
23 31 13 13-0888 LF 14" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	266.21	139.70
<i>For Seal Class B, Add</i>	34.92	
<i>For Seal Class A, Add</i>	74.51	
<i>For Work In Restricted Working Space, Add</i>	69.85	
23 31 13 13-0889 LF 14" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.32	146.05
<i>For Seal Class B, Add</i>	36.51	
<i>For Seal Class A, Add</i>	77.89	
<i>For Work In Restricted Working Space, Add</i>	73.02	
23 31 13 13-0890 LF 14" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	290.43	152.39
<i>For Seal Class B, Add</i>	38.10	
<i>For Seal Class A, Add</i>	81.28	
<i>For Work In Restricted Working Space, Add</i>	76.20	
23 31 13 13-0891 LF 14" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	302.52	158.75
<i>For Seal Class B, Add</i>	39.69	
<i>For Seal Class A, Add</i>	84.67	
<i>For Work In Restricted Working Space, Add</i>	79.37	
23 31 13 13-0892 LF 16" x 16", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	193.61	101.60
<i>For Seal Class B, Add</i>	25.40	
<i>For Seal Class A, Add</i>	54.19	
<i>For Work In Restricted Working Space, Add</i>	50.80	
23 31 13 13-0893 LF 16" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	205.71	107.96
<i>For Seal Class B, Add</i>	26.99	
<i>For Seal Class A, Add</i>	57.57	
<i>For Work In Restricted Working Space, Add</i>	53.98	
23 31 13 13-0894 LF 16" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	217.84	114.30
<i>For Seal Class B, Add</i>	28.58	
<i>For Seal Class A, Add</i>	60.96	
<i>For Work In Restricted Working Space, Add</i>	57.15	
23 31 13 13-0895 LF 16" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	229.93	120.66
<i>For Seal Class B, Add</i>	30.16	
<i>For Seal Class A, Add</i>	64.35	
<i>For Work In Restricted Working Space, Add</i>	60.33	
23 31 13 13-0896 LF 16" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	242.02	127.00
<i>For Seal Class B, Add</i>	31.75	
<i>For Seal Class A, Add</i>	67.73	
<i>For Work In Restricted Working Space, Add</i>	63.50	
23 31 13 13-0897 LF 16" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	254.11	133.35
<i>For Seal Class B, Add</i>	33.34	
<i>For Seal Class A, Add</i>	71.12	
<i>For Work In Restricted Working Space, Add</i>	66.68	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0898	LF	16" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	266.21	139.70
			<i>For Seal Class B, Add</i>	34.92	
			<i>For Seal Class A, Add</i>	74.51	
			<i>For Work In Restricted Working Space, Add</i>	69.85	
23 31 13	13-0899	LF	16" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.32	146.05
			<i>For Seal Class B, Add</i>	36.51	
			<i>For Seal Class A, Add</i>	77.89	
			<i>For Work In Restricted Working Space, Add</i>	73.02	
23 31 13	13-0900	LF	16" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	290.43	152.39
			<i>For Seal Class B, Add</i>	38.10	
			<i>For Seal Class A, Add</i>	81.28	
			<i>For Work In Restricted Working Space, Add</i>	76.20	
23 31 13	13-0901	LF	16" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	302.52	158.75
			<i>For Seal Class B, Add</i>	39.69	
			<i>For Seal Class A, Add</i>	84.67	
			<i>For Work In Restricted Working Space, Add</i>	79.37	
23 31 13	13-0902	LF	16" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	314.62	165.09
			<i>For Seal Class B, Add</i>	41.28	
			<i>For Seal Class A, Add</i>	88.05	
			<i>For Work In Restricted Working Space, Add</i>	82.55	
23 31 13	13-0903	LF	16" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	326.72	171.45
			<i>For Seal Class B, Add</i>	42.86	
			<i>For Seal Class A, Add</i>	91.44	
			<i>For Work In Restricted Working Space, Add</i>	85.73	
23 31 13	13-0904	LF	16" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	338.83	177.81
			<i>For Seal Class B, Add</i>	44.45	
			<i>For Seal Class A, Add</i>	94.83	
			<i>For Work In Restricted Working Space, Add</i>	88.90	
23 31 13	13-0905	LF	16" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	350.92	184.15
			<i>For Seal Class B, Add</i>	46.04	
			<i>For Seal Class A, Add</i>	98.21	
			<i>For Work In Restricted Working Space, Add</i>	92.07	
23 31 13	13-0906	LF	16" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	363.04	190.51
			<i>For Seal Class B, Add</i>	47.63	
			<i>For Seal Class A, Add</i>	101.60	
			<i>For Work In Restricted Working Space, Add</i>	95.25	
23 31 13	13-0907	LF	18" x 18", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	217.84	114.30
			<i>For Seal Class B, Add</i>	28.58	
			<i>For Seal Class A, Add</i>	60.96	
			<i>For Work In Restricted Working Space, Add</i>	57.15	
23 31 13	13-0908	LF	18" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	229.93	120.66
			<i>For Seal Class B, Add</i>	30.16	
			<i>For Seal Class A, Add</i>	64.35	
			<i>For Work In Restricted Working Space, Add</i>	60.33	
23 31 13	13-0909	LF	18" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	242.02	127.00
			<i>For Seal Class B, Add</i>	31.75	
			<i>For Seal Class A, Add</i>	67.73	
			<i>For Work In Restricted Working Space, Add</i>	63.50	
23 31 13	13-0910	LF	18" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	254.11	133.35
			<i>For Seal Class B, Add</i>	33.34	
			<i>For Seal Class A, Add</i>	71.12	
			<i>For Work In Restricted Working Space, Add</i>	66.68	
23 31 13	13-0911	LF	18" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	266.21	139.70
			<i>For Seal Class B, Add</i>	34.92	
			<i>For Seal Class A, Add</i>	74.51	
			<i>For Work In Restricted Working Space, Add</i>	69.85	
23 31 13	13-0912	LF	18" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.32	146.05
			<i>For Seal Class B, Add</i>	36.51	
			<i>For Seal Class A, Add</i>	77.89	
			<i>For Work In Restricted Working Space, Add</i>	73.02	
23 31 13	13-0913	LF	18" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	290.43	152.39
			<i>For Seal Class B, Add</i>	38.10	
			<i>For Seal Class A, Add</i>	81.28	
			<i>For Work In Restricted Working Space, Add</i>	76.20	
23 31 13	13-0914	LF	18" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	302.52	158.75
			<i>For Seal Class B, Add</i>	39.69	
			<i>For Seal Class A, Add</i>	84.67	
			<i>For Work In Restricted Working Space, Add</i>	79.37	
23 31 13	13-0915	LF	18" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	314.62	165.09
			<i>For Seal Class B, Add</i>	41.28	
			<i>For Seal Class A, Add</i>	88.05	
			<i>For Work In Restricted Working Space, Add</i>	82.55	
23 31 13	13-0916	LF	18" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	326.72	171.45
			<i>For Seal Class B, Add</i>	42.86	
			<i>For Seal Class A, Add</i>	91.44	
			<i>For Work In Restricted Working Space, Add</i>	85.73	
23 31 13	13-0917	LF	18" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	338.83	177.81
			<i>For Seal Class B, Add</i>	44.45	
			<i>For Seal Class A, Add</i>	94.83	
			<i>For Work In Restricted Working Space, Add</i>	88.90	
23 31 13	13-0918	LF	18" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	350.92	184.15
			<i>For Seal Class B, Add</i>	46.04	
			<i>For Seal Class A, Add</i>	98.21	
			<i>For Work In Restricted Working Space, Add</i>	92.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0919 LF 18" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	363.04	190.51
For Seal Class B, Add	47.63	
For Seal Class A, Add	101.60	
For Work In Restricted Working Space, Add	95.25	
23 31 13 13-0920 LF 18" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	375.13	196.85
For Seal Class B, Add	49.21	
For Seal Class A, Add	104.99	
For Work In Restricted Working Space, Add	98.43	
23 31 13 13-0921 LF 18" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	387.25	203.20
For Seal Class B, Add	50.80	
For Seal Class A, Add	108.37	
For Work In Restricted Working Space, Add	101.60	
23 31 13 13-0922 LF 20" x 20", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	242.02	127.00
For Seal Class B, Add	31.75	
For Seal Class A, Add	67.73	
For Work In Restricted Working Space, Add	63.50	
23 31 13 13-0923 LF 20" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	254.11	133.35
For Seal Class B, Add	33.34	
For Seal Class A, Add	71.12	
For Work In Restricted Working Space, Add	66.68	
23 31 13 13-0924 LF 20" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	266.21	139.70
For Seal Class B, Add	34.92	
For Seal Class A, Add	74.51	
For Work In Restricted Working Space, Add	69.85	
23 31 13 13-0925 LF 20" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.32	146.05
For Seal Class B, Add	36.51	
For Seal Class A, Add	77.89	
For Work In Restricted Working Space, Add	73.02	
23 31 13 13-0926 LF 20" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	290.43	152.39
For Seal Class B, Add	38.10	
For Seal Class A, Add	81.28	
For Work In Restricted Working Space, Add	76.20	
23 31 13 13-0927 LF 20" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	302.52	158.75
For Seal Class B, Add	39.69	
For Seal Class A, Add	84.67	
For Work In Restricted Working Space, Add	79.37	
23 31 13 13-0928 LF 20" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	314.62	165.09
For Seal Class B, Add	41.28	
For Seal Class A, Add	88.05	
For Work In Restricted Working Space, Add	82.55	
23 31 13 13-0929 LF 20" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	326.72	171.45
For Seal Class B, Add	42.86	
For Seal Class A, Add	91.44	
For Work In Restricted Working Space, Add	85.73	
23 31 13 13-0930 LF 20" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	338.83	177.81
For Seal Class B, Add	44.45	
For Seal Class A, Add	94.83	
For Work In Restricted Working Space, Add	88.90	
23 31 13 13-0931 LF 20" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	350.92	184.15
For Seal Class B, Add	46.04	
For Seal Class A, Add	98.21	
For Work In Restricted Working Space, Add	92.07	
23 31 13 13-0932 LF 20" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	363.04	190.51
For Seal Class B, Add	47.63	
For Seal Class A, Add	101.60	
For Work In Restricted Working Space, Add	95.25	
23 31 13 13-0933 LF 20" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	375.13	196.85
For Seal Class B, Add	49.21	
For Seal Class A, Add	104.99	
For Work In Restricted Working Space, Add	98.43	
23 31 13 13-0934 LF 20" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	387.25	203.20
For Seal Class B, Add	50.80	
For Seal Class A, Add	108.37	
For Work In Restricted Working Space, Add	101.60	
23 31 13 13-0935 LF 20" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	399.34	209.55
For Seal Class B, Add	52.39	
For Seal Class A, Add	111.76	
For Work In Restricted Working Space, Add	104.78	
23 31 13 13-0936 LF 20" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	411.44	215.90
For Seal Class B, Add	53.98	
For Seal Class A, Add	115.15	
For Work In Restricted Working Space, Add	107.95	
23 31 13 13-0937 LF 22" x 22", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	266.21	139.70
For Seal Class B, Add	34.92	
For Seal Class A, Add	74.51	
For Work In Restricted Working Space, Add	69.85	
23 31 13 13-0938 LF 22" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	278.32	146.05
For Seal Class B, Add	36.51	
For Seal Class A, Add	77.89	
For Work In Restricted Working Space, Add	73.02	
23 31 13 13-0939 LF 22" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	290.43	152.39
For Seal Class B, Add	38.10	
For Seal Class A, Add	81.28	
For Work In Restricted Working Space, Add	76.20	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0940	LF	22" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	302.52	158.75
			<i>For Seal Class B, Add</i>	39.69	
			<i>For Seal Class A, Add</i>	84.67	
			<i>For Work In Restricted Working Space, Add</i>	79.37	
23 31 13	13-0941	LF	22" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	314.62	165.09
			<i>For Seal Class B, Add</i>	41.28	
			<i>For Seal Class A, Add</i>	88.05	
			<i>For Work In Restricted Working Space, Add</i>	82.55	
23 31 13	13-0942	LF	22" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	326.72	171.45
			<i>For Seal Class B, Add</i>	42.86	
			<i>For Seal Class A, Add</i>	91.44	
			<i>For Work In Restricted Working Space, Add</i>	85.73	
23 31 13	13-0943	LF	22" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	338.83	177.81
			<i>For Seal Class B, Add</i>	44.45	
			<i>For Seal Class A, Add</i>	94.83	
			<i>For Work In Restricted Working Space, Add</i>	88.90	
23 31 13	13-0944	LF	22" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.92	184.15
			<i>For Seal Class B, Add</i>	46.04	
			<i>For Seal Class A, Add</i>	98.21	
			<i>For Work In Restricted Working Space, Add</i>	92.07	
23 31 13	13-0945	LF	22" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	363.04	190.51
			<i>For Seal Class B, Add</i>	47.63	
			<i>For Seal Class A, Add</i>	101.60	
			<i>For Work In Restricted Working Space, Add</i>	95.25	
23 31 13	13-0946	LF	22" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	375.13	196.85
			<i>For Seal Class B, Add</i>	49.21	
			<i>For Seal Class A, Add</i>	104.99	
			<i>For Work In Restricted Working Space, Add</i>	98.43	
23 31 13	13-0947	LF	22" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	387.25	203.20
			<i>For Seal Class B, Add</i>	50.80	
			<i>For Seal Class A, Add</i>	108.37	
			<i>For Work In Restricted Working Space, Add</i>	101.60	
23 31 13	13-0948	LF	22" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	399.34	209.55
			<i>For Seal Class B, Add</i>	52.39	
			<i>For Seal Class A, Add</i>	111.76	
			<i>For Work In Restricted Working Space, Add</i>	104.78	
23 31 13	13-0949	LF	22" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	411.44	215.90
			<i>For Seal Class B, Add</i>	53.98	
			<i>For Seal Class A, Add</i>	115.15	
			<i>For Work In Restricted Working Space, Add</i>	107.95	
23 31 13	13-0950	LF	22" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	423.54	222.25
			<i>For Seal Class B, Add</i>	55.56	
			<i>For Seal Class A, Add</i>	118.53	
			<i>For Work In Restricted Working Space, Add</i>	111.13	
23 31 13	13-0951	LF	24" x 24", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	290.43	152.39
			<i>For Seal Class B, Add</i>	38.10	
			<i>For Seal Class A, Add</i>	81.28	
			<i>For Work In Restricted Working Space, Add</i>	76.20	
23 31 13	13-0952	LF	24" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	302.52	158.75
			<i>For Seal Class B, Add</i>	39.69	
			<i>For Seal Class A, Add</i>	84.67	
			<i>For Work In Restricted Working Space, Add</i>	79.37	
23 31 13	13-0953	LF	24" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	314.62	165.09
			<i>For Seal Class B, Add</i>	41.28	
			<i>For Seal Class A, Add</i>	88.05	
			<i>For Work In Restricted Working Space, Add</i>	82.55	
23 31 13	13-0954	LF	24" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	326.72	171.45
			<i>For Seal Class B, Add</i>	42.86	
			<i>For Seal Class A, Add</i>	91.44	
			<i>For Work In Restricted Working Space, Add</i>	85.73	
23 31 13	13-0955	LF	24" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	338.83	177.81
			<i>For Seal Class B, Add</i>	44.45	
			<i>For Seal Class A, Add</i>	94.83	
			<i>For Work In Restricted Working Space, Add</i>	88.90	
23 31 13	13-0956	LF	24" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	350.92	184.15
			<i>For Seal Class B, Add</i>	46.04	
			<i>For Seal Class A, Add</i>	98.21	
			<i>For Work In Restricted Working Space, Add</i>	92.07	
23 31 13	13-0957	LF	24" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	363.04	190.51
			<i>For Seal Class B, Add</i>	47.63	
			<i>For Seal Class A, Add</i>	101.60	
			<i>For Work In Restricted Working Space, Add</i>	95.25	
23 31 13	13-0958	LF	24" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	375.13	196.85
			<i>For Seal Class B, Add</i>	49.21	
			<i>For Seal Class A, Add</i>	104.99	
			<i>For Work In Restricted Working Space, Add</i>	98.43	
23 31 13	13-0959	LF	24" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	387.25	203.20
			<i>For Seal Class B, Add</i>	50.80	
			<i>For Seal Class A, Add</i>	108.37	
			<i>For Work In Restricted Working Space, Add</i>	101.60	
23 31 13	13-0960	LF	24" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork	399.34	209.55
			<i>For Seal Class B, Add</i>	52.39	
			<i>For Seal Class A, Add</i>	111.76	
			<i>For Work In Restricted Working Space, Add</i>	104.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0961 LF 24" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	411.44	215.90
<i>For Seal Class B, Add</i>	53.98	
<i>For Seal Class A, Add</i>	115.15	
<i>For Work In Restricted Working Space, Add</i>	107.95	
23 31 13 13-0962 LF 24" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	423.54	222.25
<i>For Seal Class B, Add</i>	55.56	
<i>For Seal Class A, Add</i>	118.53	
<i>For Work In Restricted Working Space, Add</i>	111.13	
23 31 13 13-0963 LF 24" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	435.62	228.60
<i>For Seal Class B, Add</i>	57.15	
<i>For Seal Class A, Add</i>	121.92	
<i>For Work In Restricted Working Space, Add</i>	114.30	
23 31 13 13-0964 LF 26" x 26", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	314.62	165.09
<i>For Seal Class B, Add</i>	41.28	
<i>For Seal Class A, Add</i>	88.05	
<i>For Work In Restricted Working Space, Add</i>	82.55	
23 31 13 13-0965 LF 26" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	326.72	171.45
<i>For Seal Class B, Add</i>	42.86	
<i>For Seal Class A, Add</i>	91.44	
<i>For Work In Restricted Working Space, Add</i>	85.73	
23 31 13 13-0966 LF 26" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	338.83	177.81
<i>For Seal Class B, Add</i>	44.45	
<i>For Seal Class A, Add</i>	94.83	
<i>For Work In Restricted Working Space, Add</i>	88.90	
23 31 13 13-0967 LF 26" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	350.92	184.15
<i>For Seal Class B, Add</i>	46.04	
<i>For Seal Class A, Add</i>	98.21	
<i>For Work In Restricted Working Space, Add</i>	92.07	
23 31 13 13-0968 LF 26" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	363.04	190.51
<i>For Seal Class B, Add</i>	47.63	
<i>For Seal Class A, Add</i>	101.60	
<i>For Work In Restricted Working Space, Add</i>	95.25	
23 31 13 13-0969 LF 26" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	375.13	196.85
<i>For Seal Class B, Add</i>	49.21	
<i>For Seal Class A, Add</i>	104.99	
<i>For Work In Restricted Working Space, Add</i>	98.43	
23 31 13 13-0970 LF 26" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	387.25	203.20
<i>For Seal Class B, Add</i>	50.80	
<i>For Seal Class A, Add</i>	108.37	
<i>For Work In Restricted Working Space, Add</i>	101.60	
23 31 13 13-0971 LF 26" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	399.34	209.55
<i>For Seal Class B, Add</i>	52.39	
<i>For Seal Class A, Add</i>	111.76	
<i>For Work In Restricted Working Space, Add</i>	104.78	
23 31 13 13-0972 LF 26" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	411.44	215.90
<i>For Seal Class B, Add</i>	53.98	
<i>For Seal Class A, Add</i>	115.15	
<i>For Work In Restricted Working Space, Add</i>	107.95	
23 31 13 13-0973 LF 26" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	423.54	222.25
<i>For Seal Class B, Add</i>	55.56	
<i>For Seal Class A, Add</i>	118.53	
<i>For Work In Restricted Working Space, Add</i>	111.13	
23 31 13 13-0974 LF 26" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	435.62	228.60
<i>For Seal Class B, Add</i>	57.15	
<i>For Seal Class A, Add</i>	121.92	
<i>For Work In Restricted Working Space, Add</i>	114.30	
23 31 13 13-0975 LF 26" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	447.75	234.95
<i>For Seal Class B, Add</i>	58.74	
<i>For Seal Class A, Add</i>	125.31	
<i>For Work In Restricted Working Space, Add</i>	117.48	
23 31 13 13-0976 LF 28" x 28", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	338.83	177.81
<i>For Seal Class B, Add</i>	44.45	
<i>For Seal Class A, Add</i>	94.83	
<i>For Work In Restricted Working Space, Add</i>	88.90	
23 31 13 13-0977 LF 28" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	350.92	184.15
<i>For Seal Class B, Add</i>	46.04	
<i>For Seal Class A, Add</i>	98.21	
<i>For Work In Restricted Working Space, Add</i>	92.07	
23 31 13 13-0978 LF 28" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	363.04	190.51
<i>For Seal Class B, Add</i>	47.63	
<i>For Seal Class A, Add</i>	101.60	
<i>For Work In Restricted Working Space, Add</i>	95.25	
23 31 13 13-0979 LF 28" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	375.13	196.85
<i>For Seal Class B, Add</i>	49.21	
<i>For Seal Class A, Add</i>	104.99	
<i>For Work In Restricted Working Space, Add</i>	98.43	
23 31 13 13-0980 LF 28" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	387.25	203.20
<i>For Seal Class B, Add</i>	50.80	
<i>For Seal Class A, Add</i>	108.37	
<i>For Work In Restricted Working Space, Add</i>	101.60	
23 31 13 13-0981 LF 28" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	399.34	209.55
<i>For Seal Class B, Add</i>	52.39	
<i>For Seal Class A, Add</i>	111.76	
<i>For Work In Restricted Working Space, Add</i>	104.78	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0982 LF 28" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	411.44	215.90
For Seal Class B, Add	53.98	
For Seal Class A, Add	115.15	
For Work In Restricted Working Space, Add	107.95	
23 31 13 13-0983 LF 28" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	423.54	222.25
For Seal Class B, Add	55.56	
For Seal Class A, Add	118.53	
For Work In Restricted Working Space, Add	111.13	
23 31 13 13-0984 LF 28" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	435.62	228.60
For Seal Class B, Add	57.15	
For Seal Class A, Add	121.92	
For Work In Restricted Working Space, Add	114.30	
23 31 13 13-0985 LF 28" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	447.75	234.95
For Seal Class B, Add	58.74	
For Seal Class A, Add	125.31	
For Work In Restricted Working Space, Add	117.48	
23 31 13 13-0986 LF 28" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	459.86	241.29
For Seal Class B, Add	60.33	
For Seal Class A, Add	128.70	
For Work In Restricted Working Space, Add	120.65	
23 31 13 13-0987 LF 30" x 30", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	363.04	190.51
For Seal Class B, Add	47.63	
For Seal Class A, Add	101.60	
For Work In Restricted Working Space, Add	95.25	
23 31 13 13-0988 LF 30" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	375.13	196.85
For Seal Class B, Add	49.21	
For Seal Class A, Add	104.99	
For Work In Restricted Working Space, Add	98.43	
23 31 13 13-0989 LF 30" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	387.25	203.20
For Seal Class B, Add	50.80	
For Seal Class A, Add	108.37	
For Work In Restricted Working Space, Add	101.60	
23 31 13 13-0990 LF 30" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	399.34	209.55
For Seal Class B, Add	52.39	
For Seal Class A, Add	111.76	
For Work In Restricted Working Space, Add	104.78	
23 31 13 13-0991 LF 30" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	411.44	215.90
For Seal Class B, Add	53.98	
For Seal Class A, Add	115.15	
For Work In Restricted Working Space, Add	107.95	
23 31 13 13-0992 LF 30" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	423.54	222.25
For Seal Class B, Add	55.56	
For Seal Class A, Add	118.53	
For Work In Restricted Working Space, Add	111.13	
23 31 13 13-0993 LF 30" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	435.62	228.60
For Seal Class B, Add	57.15	
For Seal Class A, Add	121.92	
For Work In Restricted Working Space, Add	114.30	
23 31 13 13-0994 LF 30" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	447.75	234.95
For Seal Class B, Add	58.74	
For Seal Class A, Add	125.31	
For Work In Restricted Working Space, Add	117.48	
23 31 13 13-0995 LF 30" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	459.86	241.29
For Seal Class B, Add	60.33	
For Seal Class A, Add	128.70	
For Work In Restricted Working Space, Add	120.65	
23 31 13 13-0996 LF 30" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	471.94	247.66
For Seal Class B, Add	61.91	
For Seal Class A, Add	132.08	
For Work In Restricted Working Space, Add	123.83	
23 31 13 13-0997 LF 32" x 32", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	387.25	203.20
For Seal Class B, Add	50.80	
For Seal Class A, Add	108.37	
For Work In Restricted Working Space, Add	101.60	
23 31 13 13-0998 LF 32" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	399.34	209.55
For Seal Class B, Add	52.39	
For Seal Class A, Add	111.76	
For Work In Restricted Working Space, Add	104.78	
23 31 13 13-0999 LF 32" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	411.44	215.90
For Seal Class B, Add	53.98	
For Seal Class A, Add	115.15	
For Work In Restricted Working Space, Add	107.95	
23 31 13 13-1000 LF 32" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	423.54	222.25
For Seal Class B, Add	55.56	
For Seal Class A, Add	118.53	
For Work In Restricted Working Space, Add	111.13	
23 31 13 13-1001 LF 32" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	435.62	228.60
For Seal Class B, Add	57.15	
For Seal Class A, Add	121.92	
For Work In Restricted Working Space, Add	114.30	
23 31 13 13-1002 LF 32" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	447.75	234.95
For Seal Class B, Add	58.74	
For Seal Class A, Add	125.31	
For Work In Restricted Working Space, Add	117.48	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1003 LF 32" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	459.86	241.29
<i>For Seal Class B, Add</i>	60.33	
<i>For Seal Class A, Add</i>	128.70	
<i>For Work In Restricted Working Space, Add</i>	120.65	
23 31 13 13-1004 LF 32" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	471.94	247.66
<i>For Seal Class B, Add</i>	61.91	
<i>For Seal Class A, Add</i>	132.08	
<i>For Work In Restricted Working Space, Add</i>	123.83	
23 31 13 13-1005 LF 32" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	484.03	254.00
<i>For Seal Class B, Add</i>	63.50	
<i>For Seal Class A, Add</i>	135.47	
<i>For Work In Restricted Working Space, Add</i>	127.00	
23 31 13 13-1006 LF 34" x 34", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	411.44	215.90
<i>For Seal Class B, Add</i>	53.98	
<i>For Seal Class A, Add</i>	115.15	
<i>For Work In Restricted Working Space, Add</i>	107.95	
23 31 13 13-1007 LF 34" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	423.54	222.25
<i>For Seal Class B, Add</i>	55.56	
<i>For Seal Class A, Add</i>	118.53	
<i>For Work In Restricted Working Space, Add</i>	111.13	
23 31 13 13-1008 LF 34" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	435.62	228.60
<i>For Seal Class B, Add</i>	57.15	
<i>For Seal Class A, Add</i>	121.92	
<i>For Work In Restricted Working Space, Add</i>	114.30	
23 31 13 13-1009 LF 34" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	447.75	234.95
<i>For Seal Class B, Add</i>	58.74	
<i>For Seal Class A, Add</i>	125.31	
<i>For Work In Restricted Working Space, Add</i>	117.48	
23 31 13 13-1010 LF 34" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	459.86	241.29
<i>For Seal Class B, Add</i>	60.33	
<i>For Seal Class A, Add</i>	128.70	
<i>For Work In Restricted Working Space, Add</i>	120.65	
23 31 13 13-1011 LF 34" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	471.94	247.66
<i>For Seal Class B, Add</i>	61.91	
<i>For Seal Class A, Add</i>	132.08	
<i>For Work In Restricted Working Space, Add</i>	123.83	
23 31 13 13-1012 LF 34" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	484.03	254.00
<i>For Seal Class B, Add</i>	63.50	
<i>For Seal Class A, Add</i>	135.47	
<i>For Work In Restricted Working Space, Add</i>	127.00	
23 31 13 13-1013 LF 34" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	496.13	260.35
<i>For Seal Class B, Add</i>	65.09	
<i>For Seal Class A, Add</i>	138.85	
<i>For Work In Restricted Working Space, Add</i>	130.17	
23 31 13 13-1014 LF 36" x 36", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	435.62	228.60
<i>For Seal Class B, Add</i>	57.15	
<i>For Seal Class A, Add</i>	121.92	
<i>For Work In Restricted Working Space, Add</i>	114.30	
23 31 13 13-1015 LF 36" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	447.75	234.95
<i>For Seal Class B, Add</i>	58.74	
<i>For Seal Class A, Add</i>	125.31	
<i>For Work In Restricted Working Space, Add</i>	117.48	
23 31 13 13-1016 LF 36" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	459.86	241.29
<i>For Seal Class B, Add</i>	60.33	
<i>For Seal Class A, Add</i>	128.70	
<i>For Work In Restricted Working Space, Add</i>	120.65	
23 31 13 13-1017 LF 36" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	471.94	247.66
<i>For Seal Class B, Add</i>	61.91	
<i>For Seal Class A, Add</i>	132.08	
<i>For Work In Restricted Working Space, Add</i>	123.83	
23 31 13 13-1018 LF 36" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	484.03	254.00
<i>For Seal Class B, Add</i>	63.50	
<i>For Seal Class A, Add</i>	135.47	
<i>For Work In Restricted Working Space, Add</i>	127.00	
23 31 13 13-1019 LF 36" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	496.13	260.35
<i>For Seal Class B, Add</i>	65.09	
<i>For Seal Class A, Add</i>	138.85	
<i>For Work In Restricted Working Space, Add</i>	130.17	
23 31 13 13-1020 LF 36" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	508.25	266.71
<i>For Seal Class B, Add</i>	66.68	
<i>For Seal Class A, Add</i>	142.24	
<i>For Work In Restricted Working Space, Add</i>	133.35	
23 31 13 13-1021 LF 38" x 38", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	459.86	241.29
<i>For Seal Class B, Add</i>	60.33	
<i>For Seal Class A, Add</i>	128.70	
<i>For Work In Restricted Working Space, Add</i>	120.65	
23 31 13 13-1022 LF 38" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	471.94	247.66
<i>For Seal Class B, Add</i>	61.91	
<i>For Seal Class A, Add</i>	132.08	
<i>For Work In Restricted Working Space, Add</i>	123.83	
23 31 13 13-1023 LF 38" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	484.03	254.00
<i>For Seal Class B, Add</i>	63.50	
<i>For Seal Class A, Add</i>	135.47	
<i>For Work In Restricted Working Space, Add</i>	127.00	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1024 LF 38" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	496.13	260.35
For Seal Class B, Add	65.09	
For Seal Class A, Add	138.85	
For Work In Restricted Working Space, Add	130.17	
23 31 13 13-1025 LF 38" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	508.25	266.71
For Seal Class B, Add	66.68	
For Seal Class A, Add	142.24	
For Work In Restricted Working Space, Add	133.35	
23 31 13 13-1026 LF 38" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	520.35	273.05
For Seal Class B, Add	68.26	
For Seal Class A, Add	145.63	
For Work In Restricted Working Space, Add	136.53	
23 31 13 13-1027 LF 38" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	532.45	279.41
For Seal Class B, Add	69.85	
For Seal Class A, Add	149.01	
For Work In Restricted Working Space, Add	139.70	
23 31 13 13-1028 LF 40" x 40", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	484.03	254.00
For Seal Class B, Add	63.50	
For Seal Class A, Add	135.47	
For Work In Restricted Working Space, Add	127.00	
23 31 13 13-1029 LF 40" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	496.13	260.35
For Seal Class B, Add	65.09	
For Seal Class A, Add	138.85	
For Work In Restricted Working Space, Add	130.17	
23 31 13 13-1030 LF 40" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	508.25	266.71
For Seal Class B, Add	66.68	
For Seal Class A, Add	142.24	
For Work In Restricted Working Space, Add	133.35	
23 31 13 13-1031 LF 40" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	520.35	273.05
For Seal Class B, Add	68.26	
For Seal Class A, Add	145.63	
For Work In Restricted Working Space, Add	136.53	
23 31 13 13-1032 LF 40" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	532.45	279.41
For Seal Class B, Add	69.85	
For Seal Class A, Add	149.01	
For Work In Restricted Working Space, Add	139.70	
23 31 13 13-1033 LF 40" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	544.54	285.75
For Seal Class B, Add	71.44	
For Seal Class A, Add	152.40	
For Work In Restricted Working Space, Add	142.88	
23 31 13 13-1034 LF 40" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	556.64	292.10
For Seal Class B, Add	73.03	
For Seal Class A, Add	155.79	
For Work In Restricted Working Space, Add	146.05	
23 31 13 13-1035 LF 40" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	568.76	298.45
For Seal Class B, Add	74.61	
For Seal Class A, Add	159.17	
For Work In Restricted Working Space, Add	149.23	
23 31 13 13-1036 LF 40" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	580.85	304.80
For Seal Class B, Add	76.20	
For Seal Class A, Add	162.56	
For Work In Restricted Working Space, Add	152.40	
23 31 13 13-1037 LF 42" x 42", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	508.25	266.71
For Seal Class B, Add	66.68	
For Seal Class A, Add	142.24	
For Work In Restricted Working Space, Add	133.35	
23 31 13 13-1038 LF 42" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	520.35	273.05
For Seal Class B, Add	68.26	
For Seal Class A, Add	145.63	
For Work In Restricted Working Space, Add	136.53	
23 31 13 13-1039 LF 42" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	532.45	279.41
For Seal Class B, Add	69.85	
For Seal Class A, Add	149.01	
For Work In Restricted Working Space, Add	139.70	
23 31 13 13-1040 LF 42" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	544.54	285.75
For Seal Class B, Add	71.44	
For Seal Class A, Add	152.40	
For Work In Restricted Working Space, Add	142.88	
23 31 13 13-1041 LF 42" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	556.64	292.10
For Seal Class B, Add	73.03	
For Seal Class A, Add	155.79	
For Work In Restricted Working Space, Add	146.05	
23 31 13 13-1042 LF 42" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	568.76	298.45
For Seal Class B, Add	74.61	
For Seal Class A, Add	159.17	
For Work In Restricted Working Space, Add	149.23	
23 31 13 13-1043 LF 42" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	580.85	304.80
For Seal Class B, Add	76.20	
For Seal Class A, Add	162.56	
For Work In Restricted Working Space, Add	152.40	
23 31 13 13-1044 LF 42" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	592.95	311.14
For Seal Class B, Add	77.79	
For Seal Class A, Add	165.95	
For Work In Restricted Working Space, Add	155.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1045 LF 44" x 44", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	532.45	279.41
For Seal Class B, Add	69.85	
For Seal Class A, Add	149.01	
For Work In Restricted Working Space, Add	139.70	
23 31 13 13-1046 LF 44" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	544.54	285.75
For Seal Class B, Add	71.44	
For Seal Class A, Add	152.40	
For Work In Restricted Working Space, Add	142.88	
23 31 13 13-1047 LF 44" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	556.64	292.10
For Seal Class B, Add	73.03	
For Seal Class A, Add	155.79	
For Work In Restricted Working Space, Add	146.05	
23 31 13 13-1048 LF 44" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	568.76	298.45
For Seal Class B, Add	74.61	
For Seal Class A, Add	159.17	
For Work In Restricted Working Space, Add	149.23	
23 31 13 13-1049 LF 44" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	580.85	304.80
For Seal Class B, Add	76.20	
For Seal Class A, Add	162.56	
For Work In Restricted Working Space, Add	152.40	
23 31 13 13-1050 LF 44" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	592.95	311.14
For Seal Class B, Add	77.79	
For Seal Class A, Add	165.95	
For Work In Restricted Working Space, Add	155.57	
23 31 13 13-1051 LF 44" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	605.06	317.51
For Seal Class B, Add	79.38	
For Seal Class A, Add	169.34	
For Work In Restricted Working Space, Add	158.75	
23 31 13 13-1052 LF 46" x 46", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	556.64	292.10
For Seal Class B, Add	73.03	
For Seal Class A, Add	155.79	
For Work In Restricted Working Space, Add	146.05	
23 31 13 13-1053 LF 46" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	568.76	298.45
For Seal Class B, Add	74.61	
For Seal Class A, Add	159.17	
For Work In Restricted Working Space, Add	149.23	
23 31 13 13-1054 LF 46" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	580.85	304.80
For Seal Class B, Add	76.20	
For Seal Class A, Add	162.56	
For Work In Restricted Working Space, Add	152.40	
23 31 13 13-1055 LF 46" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	592.95	311.14
For Seal Class B, Add	77.79	
For Seal Class A, Add	165.95	
For Work In Restricted Working Space, Add	155.57	
23 31 13 13-1056 LF 46" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	605.06	317.51
For Seal Class B, Add	79.38	
For Seal Class A, Add	169.34	
For Work In Restricted Working Space, Add	158.75	
23 31 13 13-1057 LF 46" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	627.73	330.20
For Seal Class B, Add	82.55	
For Seal Class A, Add	176.11	
For Work In Restricted Working Space, Add	165.10	
23 31 13 13-1058 LF 46" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	639.84	336.56
For Seal Class B, Add	84.14	
For Seal Class A, Add	179.49	
For Work In Restricted Working Space, Add	168.27	
23 31 13 13-1059 LF 48" x 48", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	580.85	304.80
For Seal Class B, Add	76.20	
For Seal Class A, Add	162.56	
For Work In Restricted Working Space, Add	152.40	
23 31 13 13-1060 LF 48" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	592.95	311.14
For Seal Class B, Add	77.79	
For Seal Class A, Add	165.95	
For Work In Restricted Working Space, Add	155.57	
23 31 13 13-1061 LF 48" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	605.06	317.51
For Seal Class B, Add	79.38	
For Seal Class A, Add	169.34	
For Work In Restricted Working Space, Add	158.75	
23 31 13 13-1062 LF 48" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	617.15	323.86
For Seal Class B, Add	80.96	
For Seal Class A, Add	172.72	
For Work In Restricted Working Space, Add	161.93	
23 31 13 13-1063 LF 48" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	629.27	330.20
For Seal Class B, Add	82.55	
For Seal Class A, Add	176.11	
For Work In Restricted Working Space, Add	165.10	
23 31 13 13-1064 LF 48" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	641.35	336.56
For Seal Class B, Add	84.14	
For Seal Class A, Add	179.49	
For Work In Restricted Working Space, Add	168.27	
23 31 13 13-1065 LF 48" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	653.45	342.90
For Seal Class B, Add	85.73	
For Seal Class A, Add	182.88	
For Work In Restricted Working Space, Add	171.45	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1066 LF 50" x 50", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	605.06	317.51
For Seal Class B, Add	79.38	
For Seal Class A, Add	169.34	
For Work In Restricted Working Space, Add	158.75	
23 31 13 13-1067 LF 50" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	617.15	323.86
For Seal Class B, Add	80.96	
For Seal Class A, Add	172.72	
For Work In Restricted Working Space, Add	161.93	
23 31 13 13-1068 LF 50" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	629.27	330.20
For Seal Class B, Add	82.55	
For Seal Class A, Add	176.11	
For Work In Restricted Working Space, Add	165.10	
23 31 13 13-1069 LF 50" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	641.35	336.56
For Seal Class B, Add	84.14	
For Seal Class A, Add	179.49	
For Work In Restricted Working Space, Add	168.27	
23 31 13 13-1070 LF 50" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	653.45	342.90
For Seal Class B, Add	85.73	
For Seal Class A, Add	182.88	
For Work In Restricted Working Space, Add	171.45	
23 31 13 13-1071 LF 50" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	665.55	349.25
For Seal Class B, Add	87.31	
For Seal Class A, Add	186.27	
For Work In Restricted Working Space, Add	174.62	
23 31 13 13-1072 LF 52" x 52", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	629.27	330.20
For Seal Class B, Add	82.55	
For Seal Class A, Add	176.11	
For Work In Restricted Working Space, Add	165.10	
23 31 13 13-1073 LF 52" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	641.35	336.56
For Seal Class B, Add	84.14	
For Seal Class A, Add	179.49	
For Work In Restricted Working Space, Add	168.27	
23 31 13 13-1074 LF 52" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	653.45	342.90
For Seal Class B, Add	85.73	
For Seal Class A, Add	182.88	
For Work In Restricted Working Space, Add	171.45	
23 31 13 13-1075 LF 52" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	665.55	349.25
For Seal Class B, Add	87.31	
For Seal Class A, Add	186.27	
For Work In Restricted Working Space, Add	174.62	
23 31 13 13-1076 LF 52" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	677.65	355.60
For Seal Class B, Add	88.90	
For Seal Class A, Add	189.65	
For Work In Restricted Working Space, Add	177.80	
23 31 13 13-1077 LF 54" x 54", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	653.45	342.90
For Seal Class B, Add	85.73	
For Seal Class A, Add	182.88	
For Work In Restricted Working Space, Add	171.45	
23 31 13 13-1078 LF 54" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	665.55	349.25
For Seal Class B, Add	87.31	
For Seal Class A, Add	186.27	
For Work In Restricted Working Space, Add	174.62	
23 31 13 13-1079 LF 54" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	677.65	355.60
For Seal Class B, Add	88.90	
For Seal Class A, Add	189.65	
For Work In Restricted Working Space, Add	177.80	
23 31 13 13-1080 LF 54" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	689.77	361.95
For Seal Class B, Add	90.49	
For Seal Class A, Add	193.04	
For Work In Restricted Working Space, Add	180.98	
23 31 13 13-1081 LF 54" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	701.87	368.29
For Seal Class B, Add	92.08	
For Seal Class A, Add	196.43	
For Work In Restricted Working Space, Add	184.15	
23 31 13 13-1082 LF 54" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	713.96	374.65
For Seal Class B, Add	93.66	
For Seal Class A, Add	199.81	
For Work In Restricted Working Space, Add	187.33	
23 31 13 13-1083 LF 56" x 56", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	677.65	355.60
For Seal Class B, Add	88.90	
For Seal Class A, Add	189.65	
For Work In Restricted Working Space, Add	177.80	
23 31 13 13-1084 LF 56" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	689.77	361.95
For Seal Class B, Add	90.49	
For Seal Class A, Add	193.04	
For Work In Restricted Working Space, Add	180.98	
23 31 13 13-1085 LF 56" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	701.87	368.29
For Seal Class B, Add	92.08	
For Seal Class A, Add	196.43	
For Work In Restricted Working Space, Add	184.15	
23 31 13 13-1086 LF 56" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	713.96	374.65
For Seal Class B, Add	93.66	
For Seal Class A, Add	199.81	
For Work In Restricted Working Space, Add	187.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1087 LF 56" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	726.05	380.99
<i>For Seal Class B, Add</i>	95.25	
<i>For Seal Class A, Add</i>	203.20	
<i>For Work In Restricted Working Space, Add</i>	190.50	
23 31 13 13-1088 LF 58" x 58", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	701.87	368.29
<i>For Seal Class B, Add</i>	92.08	
<i>For Seal Class A, Add</i>	196.43	
<i>For Work In Restricted Working Space, Add</i>	184.15	
23 31 13 13-1089 LF 58" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	713.96	374.65
<i>For Seal Class B, Add</i>	93.66	
<i>For Seal Class A, Add</i>	199.81	
<i>For Work In Restricted Working Space, Add</i>	187.33	
23 31 13 13-1090 LF 58" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	726.05	380.99
<i>For Seal Class B, Add</i>	95.25	
<i>For Seal Class A, Add</i>	203.20	
<i>For Work In Restricted Working Space, Add</i>	190.50	
23 31 13 13-1091 LF 58" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	738.15	387.36
<i>For Seal Class B, Add</i>	96.84	
<i>For Seal Class A, Add</i>	206.59	
<i>For Work In Restricted Working Space, Add</i>	193.67	
23 31 13 13-1092 LF 58" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	750.27	393.71
<i>For Seal Class B, Add</i>	98.43	
<i>For Seal Class A, Add</i>	209.97	
<i>For Work In Restricted Working Space, Add</i>	196.85	
23 31 13 13-1093 LF 60" x 60", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	726.05	380.99
<i>For Seal Class B, Add</i>	95.25	
<i>For Seal Class A, Add</i>	203.20	
<i>For Work In Restricted Working Space, Add</i>	190.50	
23 31 13 13-1094 LF 60" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	738.15	387.36
<i>For Seal Class B, Add</i>	96.84	
<i>For Seal Class A, Add</i>	206.59	
<i>For Work In Restricted Working Space, Add</i>	193.67	
23 31 13 13-1095 LF 60" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	750.27	393.71
<i>For Seal Class B, Add</i>	98.43	
<i>For Seal Class A, Add</i>	209.97	
<i>For Work In Restricted Working Space, Add</i>	196.85	
23 31 13 13-1096 LF 60" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	762.38	400.05
<i>For Seal Class B, Add</i>	100.01	
<i>For Seal Class A, Add</i>	213.36	
<i>For Work In Restricted Working Space, Add</i>	200.03	
23 31 13 13-1097 LF 60" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	774.47	406.41
<i>For Seal Class B, Add</i>	101.60	
<i>For Seal Class A, Add</i>	216.75	
<i>For Work In Restricted Working Space, Add</i>	203.20	
23 31 13 13-1098 LF 62" x 62", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	750.27	393.71
<i>For Seal Class B, Add</i>	98.43	
<i>For Seal Class A, Add</i>	209.97	
<i>For Work In Restricted Working Space, Add</i>	196.85	
23 31 13 13-1099 LF 62" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	762.38	400.05
<i>For Seal Class B, Add</i>	100.01	
<i>For Seal Class A, Add</i>	213.36	
<i>For Work In Restricted Working Space, Add</i>	200.03	
23 31 13 13-1100 LF 62" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	774.47	406.41
<i>For Seal Class B, Add</i>	101.60	
<i>For Seal Class A, Add</i>	216.75	
<i>For Work In Restricted Working Space, Add</i>	203.20	
23 31 13 13-1101 LF 62" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	786.57	412.75
<i>For Seal Class B, Add</i>	103.19	
<i>For Seal Class A, Add</i>	220.14	
<i>For Work In Restricted Working Space, Add</i>	206.38	
23 31 13 13-1102 LF 62" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	798.67	419.10
<i>For Seal Class B, Add</i>	104.78	
<i>For Seal Class A, Add</i>	223.52	
<i>For Work In Restricted Working Space, Add</i>	209.55	
23 31 13 13-1103 LF 64" x 64", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	774.47	406.41
<i>For Seal Class B, Add</i>	101.60	
<i>For Seal Class A, Add</i>	216.75	
<i>For Work In Restricted Working Space, Add</i>	203.20	
23 31 13 13-1104 LF 64" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	786.57	412.75
<i>For Seal Class B, Add</i>	103.19	
<i>For Seal Class A, Add</i>	220.14	
<i>For Work In Restricted Working Space, Add</i>	206.38	
23 31 13 13-1105 LF 64" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	798.67	419.10
<i>For Seal Class B, Add</i>	104.78	
<i>For Seal Class A, Add</i>	223.52	
<i>For Work In Restricted Working Space, Add</i>	209.55	
23 31 13 13-1106 LF 64" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	810.77	425.45
<i>For Seal Class B, Add</i>	106.36	
<i>For Seal Class A, Add</i>	226.91	
<i>For Work In Restricted Working Space, Add</i>	212.72	
23 31 13 13-1107 LF 66" x 66", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	798.67	419.10
<i>For Seal Class B, Add</i>	104.78	
<i>For Seal Class A, Add</i>	223.52	
<i>For Work In Restricted Working Space, Add</i>	209.55	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1108 LF 66" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	810.77	425.45
For Seal Class B, Add	106.36	
For Seal Class A, Add	226.91	
For Work In Restricted Working Space, Add	212.72	
23 31 13 13-1109 LF 66" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	822.86	431.80
For Seal Class B, Add	107.95	
For Seal Class A, Add	230.29	
For Work In Restricted Working Space, Add	215.90	
23 31 13 13-1110 LF 66" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	834.97	438.15
For Seal Class B, Add	109.54	
For Seal Class A, Add	233.68	
For Work In Restricted Working Space, Add	219.08	
23 31 13 13-1111 LF 68" x 68", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	822.86	431.80
For Seal Class B, Add	107.95	
For Seal Class A, Add	230.29	
For Work In Restricted Working Space, Add	215.90	
23 31 13 13-1112 LF 68" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	834.97	438.15
For Seal Class B, Add	109.54	
For Seal Class A, Add	233.68	
For Work In Restricted Working Space, Add	219.08	
23 31 13 13-1113 LF 68" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	847.07	444.50
For Seal Class B, Add	111.13	
For Seal Class A, Add	237.07	
For Work In Restricted Working Space, Add	222.25	
23 31 13 13-1114 LF 68" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	859.16	450.85
For Seal Class B, Add	112.71	
For Seal Class A, Add	240.45	
For Work In Restricted Working Space, Add	225.43	
23 31 13 13-1115 LF 70" x 70", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	847.07	444.50
For Seal Class B, Add	111.13	
For Seal Class A, Add	237.07	
For Work In Restricted Working Space, Add	222.25	
23 31 13 13-1116 LF 70" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	859.16	450.85
For Seal Class B, Add	112.71	
For Seal Class A, Add	240.45	
For Work In Restricted Working Space, Add	225.43	
23 31 13 13-1117 LF 70" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	871.28	457.20
For Seal Class B, Add	114.30	
For Seal Class A, Add	243.84	
For Work In Restricted Working Space, Add	228.60	
23 31 13 13-1118 LF 70" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	883.38	463.56
For Seal Class B, Add	115.89	
For Seal Class A, Add	247.23	
For Work In Restricted Working Space, Add	231.78	
23 31 13 13-1119 LF 70" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	895.48	469.90
For Seal Class B, Add	117.48	
For Seal Class A, Add	250.61	
For Work In Restricted Working Space, Add	234.95	
23 31 13 13-1120 LF 70" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	907.57	476.25
For Seal Class B, Add	119.06	
For Seal Class A, Add	254.00	
For Work In Restricted Working Space, Add	238.13	
23 31 13 13-1121 LF 70" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	919.67	482.61
For Seal Class B, Add	120.65	
For Seal Class A, Add	257.39	
For Work In Restricted Working Space, Add	241.30	
23 31 13 13-1122 LF 70" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	931.80	488.95
For Seal Class B, Add	122.24	
For Seal Class A, Add	260.78	
For Work In Restricted Working Space, Add	244.48	
23 31 13 13-1123 LF 70" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	943.89	495.30
For Seal Class B, Add	123.83	
For Seal Class A, Add	264.16	
For Work In Restricted Working Space, Add	247.65	
23 31 13 13-1124 LF 72" x 72", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	871.28	457.20
For Seal Class B, Add	114.30	
For Seal Class A, Add	243.84	
For Work In Restricted Working Space, Add	228.60	
23 31 13 13-1125 LF 72" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	883.38	463.56
For Seal Class B, Add	115.89	
For Seal Class A, Add	247.23	
For Work In Restricted Working Space, Add	231.78	
23 31 13 13-1126 LF 72" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	895.48	469.90
For Seal Class B, Add	117.48	
For Seal Class A, Add	250.61	
For Work In Restricted Working Space, Add	234.95	
23 31 13 13-1127 LF 72" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	907.57	476.25
For Seal Class B, Add	119.06	
For Seal Class A, Add	254.00	
For Work In Restricted Working Space, Add	238.13	
23 31 13 13-1128 LF 72" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	919.67	482.61
For Seal Class B, Add	120.65	
For Seal Class A, Add	257.39	
For Work In Restricted Working Space, Add	241.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1129 LF 72" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	931.80	488.95
<i>For Seal Class B, Add</i>	122.24	
<i>For Seal Class A, Add</i>	260.78	
<i>For Work In Restricted Working Space, Add</i>	244.48	
23 31 13 13-1130 LF 72" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	943.89	495.30
<i>For Seal Class B, Add</i>	123.83	
<i>For Seal Class A, Add</i>	264.16	
<i>For Work In Restricted Working Space, Add</i>	247.65	
23 31 13 13-1131 LF 72" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	955.98	501.65
<i>For Seal Class B, Add</i>	125.41	
<i>For Seal Class A, Add</i>	267.55	
<i>For Work In Restricted Working Space, Add</i>	250.83	
23 31 13 13-1132 LF 74" x 74", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	895.48	469.90
<i>For Seal Class B, Add</i>	117.48	
<i>For Seal Class A, Add</i>	250.61	
<i>For Work In Restricted Working Space, Add</i>	234.95	
23 31 13 13-1133 LF 74" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	907.57	476.25
<i>For Seal Class B, Add</i>	119.06	
<i>For Seal Class A, Add</i>	254.00	
<i>For Work In Restricted Working Space, Add</i>	238.13	
23 31 13 13-1134 LF 74" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	919.67	482.61
<i>For Seal Class B, Add</i>	120.65	
<i>For Seal Class A, Add</i>	257.39	
<i>For Work In Restricted Working Space, Add</i>	241.30	
23 31 13 13-1135 LF 74" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	931.80	488.95
<i>For Seal Class B, Add</i>	122.24	
<i>For Seal Class A, Add</i>	260.78	
<i>For Work In Restricted Working Space, Add</i>	244.48	
23 31 13 13-1136 LF 74" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	943.89	495.30
<i>For Seal Class B, Add</i>	123.83	
<i>For Seal Class A, Add</i>	264.16	
<i>For Work In Restricted Working Space, Add</i>	247.65	
23 31 13 13-1137 LF 74" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	955.98	501.65
<i>For Seal Class B, Add</i>	125.41	
<i>For Seal Class A, Add</i>	267.55	
<i>For Work In Restricted Working Space, Add</i>	250.83	
23 31 13 13-1138 LF 74" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	968.08	508.00
<i>For Seal Class B, Add</i>	127.00	
<i>For Seal Class A, Add</i>	270.93	
<i>For Work In Restricted Working Space, Add</i>	254.00	
23 31 13 13-1139 LF 76" x 76", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	919.67	482.61
<i>For Seal Class B, Add</i>	120.65	
<i>For Seal Class A, Add</i>	257.39	
<i>For Work In Restricted Working Space, Add</i>	241.30	
23 31 13 13-1140 LF 76" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	931.80	488.95
<i>For Seal Class B, Add</i>	122.24	
<i>For Seal Class A, Add</i>	260.78	
<i>For Work In Restricted Working Space, Add</i>	244.48	
23 31 13 13-1141 LF 76" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	943.89	495.30
<i>For Seal Class B, Add</i>	123.83	
<i>For Seal Class A, Add</i>	264.16	
<i>For Work In Restricted Working Space, Add</i>	247.65	
23 31 13 13-1142 LF 76" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	955.98	501.65
<i>For Seal Class B, Add</i>	125.41	
<i>For Seal Class A, Add</i>	267.55	
<i>For Work In Restricted Working Space, Add</i>	250.83	
23 31 13 13-1143 LF 76" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	968.08	508.00
<i>For Seal Class B, Add</i>	127.00	
<i>For Seal Class A, Add</i>	270.93	
<i>For Work In Restricted Working Space, Add</i>	254.00	
23 31 13 13-1144 LF 76" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	980.18	514.35
<i>For Seal Class B, Add</i>	128.59	
<i>For Seal Class A, Add</i>	274.32	
<i>For Work In Restricted Working Space, Add</i>	257.18	
23 31 13 13-1145 LF 78" x 78", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	943.89	495.30
<i>For Seal Class B, Add</i>	123.83	
<i>For Seal Class A, Add</i>	264.16	
<i>For Work In Restricted Working Space, Add</i>	247.65	
23 31 13 13-1146 LF 78" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	955.98	501.65
<i>For Seal Class B, Add</i>	125.41	
<i>For Seal Class A, Add</i>	267.55	
<i>For Work In Restricted Working Space, Add</i>	250.83	
23 31 13 13-1147 LF 78" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	968.08	508.00
<i>For Seal Class B, Add</i>	127.00	
<i>For Seal Class A, Add</i>	270.93	
<i>For Work In Restricted Working Space, Add</i>	254.00	
23 31 13 13-1148 LF 78" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	980.18	514.35
<i>For Seal Class B, Add</i>	128.59	
<i>For Seal Class A, Add</i>	274.32	
<i>For Work In Restricted Working Space, Add</i>	257.18	
23 31 13 13-1149 LF 78" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	992.28	520.70
<i>For Seal Class B, Add</i>	130.17	
<i>For Seal Class A, Add</i>	277.71	
<i>For Work In Restricted Working Space, Add</i>	260.35	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-1150	LF	80" x 80", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	968.08	508.00
			<i>For Seal Class B, Add</i>	127.00	
			<i>For Seal Class A, Add</i>	270.93	
			<i>For Work In Restricted Working Space, Add</i>	254.00	
23 31 13	13-1151	LF	80" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	980.18	514.35
			<i>For Seal Class B, Add</i>	128.59	
			<i>For Seal Class A, Add</i>	274.32	
			<i>For Work In Restricted Working Space, Add</i>	257.18	
23 31 13	13-1152	LF	80" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	992.28	520.70
			<i>For Seal Class B, Add</i>	130.17	
			<i>For Seal Class A, Add</i>	277.71	
			<i>For Work In Restricted Working Space, Add</i>	260.35	
23 31 13	13-1153	LF	80" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	1,014.97	533.41
			<i>For Seal Class B, Add</i>	133.35	
			<i>For Seal Class A, Add</i>	284.48	
			<i>For Work In Restricted Working Space, Add</i>	266.70	
23 31 13	13-1154	LF	82" x 82", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	992.28	520.70
			<i>For Seal Class B, Add</i>	130.17	
			<i>For Seal Class A, Add</i>	277.71	
			<i>For Work In Restricted Working Space, Add</i>	260.35	
23 31 13	13-1155	LF	82" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	1,004.40	527.06
			<i>For Seal Class B, Add</i>	131.76	
			<i>For Seal Class A, Add</i>	281.10	
			<i>For Work In Restricted Working Space, Add</i>	263.53	
23 31 13	13-1156	LF	82" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	1,016.48	533.41
			<i>For Seal Class B, Add</i>	133.35	
			<i>For Seal Class A, Add</i>	284.48	
			<i>For Work In Restricted Working Space, Add</i>	266.70	
23 31 13	13-1157	LF	84" x 84", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	1,016.48	533.41
			<i>For Seal Class B, Add</i>	133.35	
			<i>For Seal Class A, Add</i>	284.48	
			<i>For Work In Restricted Working Space, Add</i>	266.70	
23 31 13	13-1158	LF	84" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	1,028.58	539.76
			<i>For Seal Class B, Add</i>	134.94	
			<i>For Seal Class A, Add</i>	287.87	
			<i>For Work In Restricted Working Space, Add</i>	269.88	
23 31 13	13-1159	LF	86" x 86", 18 Gauge, Seal Class C, Galvanized Steel Sheet Metal Ductwork .....	1,040.68	546.10
			<i>For Seal Class B, Add</i>	136.53	
			<i>For Seal Class A, Add</i>	291.25	
			<i>For Work In Restricted Working Space, Add</i>	273.05	

**23 31 13 16 Round and Flat-Oval Spiral Ducts (23 31 13)**

**23 31 13 16-001 Low Pressure Round And Flat-Oval Duct (23 31 13 16)**  
 Note: 7" diameter round = 4" x 11.85" flat oval. 8" diameter round = 4" x 15" flat oval. 10" diameter round = 4" x 25.99" or 6" x 15.42" or 8" x 11.14" flat oval. 12" diameter round = 6" x 23.28" or 8" x 15.85" flat oval. 14" diameter round = 6" x 32.70" or 8" x 22.14" or 10" x 17.85" or 12" x 15.14" flat oval. 16" diameter round = 6" x 43.70" or 8" x 29.99" or 10" x 24.14" or 12" x 19.85" or 14" x 17.14" flat oval. 18" diameter round = 6" x 59.41" or 8" x 39.42" or 10" x 30.42" or 12" x 24.57" or 14" x 21.85" or 16" x 19.14" flat oval. 20" diameter round = 8" x 51.98" or 10" x 38.27" or 12" x 30.85" or 14" x 26.57" or 16" x 23.85" or 18" x 21.14" flat oval. Includes sealing the joints by tape, mastic, or spray on sealer.

**23 31 13 16-002 Galvanized Sheet Metal Round And Flat-Oval Ducts (23 31 13 16-001)**

Note: Includes straps and supports.

23 31 13	16-0003	LF	4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct .....	9.03	3.38
			<i>For Seal Class B, Add</i>	1.04	
			<i>For Seal Class A, Add</i>	2.76	
			<i>For Up To 20', Add</i>	0.64	
			<i>For &gt;20' To 50', Add</i>	0.25	
			<i>For &gt;200' To 500', Deduct</i>	-0.16	
			<i>For &gt;500', Deduct</i>	-0.27	
			<i>For 28 Gauge, Deduct</i>	-0.29	
			<i>For 24 Gauge, Add</i>	0.29	
			<i>For 22 Gauge, Add</i>	0.58	
			<i>For 20 Gauge, Add</i>	0.88	
			<i>For 18 Gauge, Add</i>	1.17	
			<i>For 16 Gauge, Add</i>	1.43	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	1.57	
			<i>For Work In Restricted Working Space, Add</i>	2.07	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.69	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.38	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.73	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	2.42	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	2.76	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	3.46	
			<i>For Elevated Installation &gt;40', Add</i>	3.80	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0004 LF 5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	10.35	3.83
For Seal Class B, Add	1.15	
For Seal Class A, Add	3.07	
For Up To 20', Add	0.80	
For >20' To 50', Add	0.32	
For >200' To 500', Deduct	-0.20	
For >500', Deduct	-0.34	
For 28 Gauge, Deduct	-0.37	
For 24 Gauge, Add	0.37	
For 22 Gauge, Add	0.74	
For 20 Gauge, Add	1.11	
For 18 Gauge, Add	1.47	
For 16 Gauge, Add	1.81	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.98	
For Work In Restricted Working Space, Add	2.30	
For Elevated Installation >10' To 15', Add	0.77	
For Elevated Installation >15' To 20', Add	1.53	
For Elevated Installation >20' To 25', Add	1.92	
For Elevated Installation >25' To 30', Add	2.68	
For Elevated Installation >30' To 35', Add	3.07	
For Elevated Installation >35' To 40', Add	3.84	
For Elevated Installation >40', Add	4.22	
23 31 13 16-0005 LF 6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	11.72	4.60
For Seal Class B, Add	1.29	
For Seal Class A, Add	3.45	
For Up To 20', Add	0.93	
For >20' To 50', Add	0.37	
For >200' To 500', Deduct	-0.23	
For >500', Deduct	-0.39	
For 28 Gauge, Deduct	-0.43	
For 24 Gauge, Add	0.43	
For 22 Gauge, Add	0.85	
For 20 Gauge, Add	1.28	
For 18 Gauge, Add	1.70	
For 16 Gauge, Add	2.09	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.29	
For Work In Restricted Working Space, Add	2.59	
For Elevated Installation >10' To 15', Add	0.86	
For Elevated Installation >15' To 20', Add	1.73	
For Elevated Installation >20' To 25', Add	2.16	
For Elevated Installation >25' To 30', Add	3.02	
For Elevated Installation >30' To 35', Add	3.45	
For Elevated Installation >35' To 40', Add	4.32	
For Elevated Installation >40', Add	4.75	
23 31 13 16-0006 LF 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	13.20	5.37
For Seal Class B, Add	1.48	
For Seal Class A, Add	3.94	
For Up To 20', Add	1.00	
For >20' To 50', Add	0.40	
For >200' To 500', Deduct	-0.25	
For >500', Deduct	-0.42	
For 28 Gauge, Deduct	-0.46	
For 24 Gauge, Add	0.46	
For 22 Gauge, Add	0.92	
For 20 Gauge, Add	1.38	
For 18 Gauge, Add	1.84	
For 16 Gauge, Add	2.25	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.47	
For Work In Restricted Working Space, Add	2.96	
For Elevated Installation >10' To 15', Add	0.99	
For Elevated Installation >15' To 20', Add	1.97	
For Elevated Installation >20' To 25', Add	2.47	
For Elevated Installation >25' To 30', Add	3.45	
For Elevated Installation >30' To 35', Add	3.94	
For Elevated Installation >35' To 40', Add	4.93	
For Elevated Installation >40', Add	5.42	
23 31 13 16-0007 LF 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	15.08	6.13
For Seal Class B, Add	1.73	
For Seal Class A, Add	4.60	
For Up To 20', Add	1.07	
For >20' To 50', Add	0.43	
For >200' To 500', Deduct	-0.27	
For >500', Deduct	-0.45	
For 28 Gauge, Deduct	-0.50	
For 24 Gauge, Add	0.49	
For 22 Gauge, Add	0.99	
For 20 Gauge, Add	1.48	
For 18 Gauge, Add	1.97	
For 16 Gauge, Add	2.42	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.65	
For Work In Restricted Working Space, Add	3.45	
For Elevated Installation >10' To 15', Add	1.15	
For Elevated Installation >15' To 20', Add	2.30	
For Elevated Installation >20' To 25', Add	2.88	
For Elevated Installation >25' To 30', Add	4.03	
For Elevated Installation >30' To 35', Add	4.60	
For Elevated Installation >35' To 40', Add	5.75	
For Elevated Installation >40', Add	6.33	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0008	LF		10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct .....	19.01	7.67
			<i>For Seal Class B, Add</i>	2.07	
			<i>For Seal Class A, Add</i>	5.52	
			<i>For Up To 20', Add</i>	1.56	
			<i>For &gt;20' To 50', Add</i>	0.63	
			<i>For &gt;200' To 500', Deduct</i>	-0.39	
			<i>For &gt;500', Deduct</i>	-0.65	
			<i>For 28 Gauge, Deduct</i>	-0.72	
			<i>For 24 Gauge, Add</i>	0.72	
			<i>For 22 Gauge, Add</i>	1.44	
			<i>For 20 Gauge, Add</i>	2.16	
			<i>For 18 Gauge, Add</i>	2.87	
			<i>For 16 Gauge, Add</i>	3.52	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.86	
			<i>For Work In Restricted Working Space, Add</i>	4.14	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	2.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	3.45	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	4.83	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	5.52	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	6.90	
			<i>For Elevated Installation &gt;40', Add</i>	7.59	
23 31 13 16-0009	LF		12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct .....	23.34	10.28
			<i>For Seal Class B, Add</i>	2.59	
			<i>For Seal Class A, Add</i>	6.90	
			<i>For Up To 20', Add</i>	1.83	
			<i>For &gt;20' To 50', Add</i>	0.73	
			<i>For &gt;200' To 500', Deduct</i>	-0.46	
			<i>For &gt;500', Deduct</i>	-0.76	
			<i>For 28 Gauge, Deduct</i>	-0.84	
			<i>For 24 Gauge, Add</i>	0.84	
			<i>For 22 Gauge, Add</i>	1.68	
			<i>For 20 Gauge, Add</i>	2.52	
			<i>For 18 Gauge, Add</i>	3.35	
			<i>For 16 Gauge, Add</i>	4.11	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.51	
			<i>For Work In Restricted Working Space, Add</i>	5.18	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.73	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.45	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.31	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.04	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.90	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.63	
			<i>For Elevated Installation &gt;40', Add</i>	9.49	
23 31 13 16-0010	LF		14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct .....	28.50	15.34
			<i>For Seal Class B, Add</i>	3.24	
			<i>For Seal Class A, Add</i>	8.63	
			<i>For Up To 20', Add</i>	2.08	
			<i>For &gt;20' To 50', Add</i>	0.83	
			<i>For &gt;200' To 500', Deduct</i>	-0.52	
			<i>For &gt;500', Deduct</i>	-0.87	
			<i>For 28 Gauge, Deduct</i>	-0.96	
			<i>For 24 Gauge, Add</i>	0.95	
			<i>For 22 Gauge, Add</i>	1.91	
			<i>For 20 Gauge, Add</i>	2.86	
			<i>For 18 Gauge, Add</i>	3.81	
			<i>For 16 Gauge, Add</i>	4.67	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	5.12	
			<i>For Work In Restricted Working Space, Add</i>	6.47	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.16	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.32	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.40	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.55	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.79	
			<i>For Elevated Installation &gt;40', Add</i>	11.87	
23 31 13 16-0011	LF		16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct .....	38.28	20.55
			<i>For Seal Class B, Add</i>	4.32	
			<i>For Seal Class A, Add</i>	11.51	
			<i>For Up To 20', Add</i>	2.85	
			<i>For &gt;20' To 50', Add</i>	1.14	
			<i>For &gt;200' To 500', Deduct</i>	-0.71	
			<i>For &gt;500', Deduct</i>	-1.19	
			<i>For 28 Gauge, Deduct</i>	-1.32	
			<i>For 24 Gauge, Add</i>	1.31	
			<i>For 22 Gauge, Add</i>	2.62	
			<i>For 20 Gauge, Add</i>	3.94	
			<i>For 18 Gauge, Add</i>	5.23	
			<i>For 16 Gauge, Add</i>	6.42	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	7.04	
			<i>For Work In Restricted Working Space, Add</i>	8.63	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.88	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.19	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.51	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	14.39	
			<i>For Elevated Installation &gt;40', Add</i>	15.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0012 LF 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	52.89	24.69
For Up To 20', Add	5.51	
For >20' To 50', Add	2.20	
For >200' To 500', Deduct	-1.38	
For >500', Deduct	-2.30	
For 28 Gauge, Deduct	-2.54	
For 24 Gauge, Add	2.54	
For 22 Gauge, Add	5.06	
For 20 Gauge, Add	7.61	
For 18 Gauge, Add	10.10	
For 16 Gauge, Add	12.40	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.59	
For Work In Restricted Working Space, Add	10.36	
For Elevated Installation >10' To 15', Add	3.45	
For Elevated Installation >15' To 20', Add	6.90	
For Elevated Installation >20' To 25', Add	8.63	
For Elevated Installation >25' To 30', Add	12.08	
For Elevated Installation >30' To 35', Add	13.81	
For Elevated Installation >35' To 40', Add	17.26	
For Elevated Installation >40', Add	18.99	
23 31 13 16-0013 LF 20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Duct.....	60.40	28.53
For Up To 20', Add	6.15	
For >20' To 50', Add	2.46	
For >200' To 500', Deduct	-1.54	
For >500', Deduct	-2.56	
For 28 Gauge, Deduct	-2.84	
For 24 Gauge, Add	2.83	
For 22 Gauge, Add	5.65	
For 20 Gauge, Add	8.49	
For 18 Gauge, Add	11.28	
For 16 Gauge, Add	13.84	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.18	
For Work In Restricted Working Space, Add	11.97	
For Elevated Installation >10' To 15', Add	3.99	
For Elevated Installation >15' To 20', Add	7.98	
For Elevated Installation >20' To 25', Add	9.97	
For Elevated Installation >25' To 30', Add	13.96	
For Elevated Installation >30' To 35', Add	15.96	
For Elevated Installation >35' To 40', Add	19.95	
For Elevated Installation >40', Add	21.94	
<b>23 31 13 16-0014 Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbows (23 31 13 16-0001)</b>		
Note: Up to 90 degree.		
23 31 13 16-0015 EA 4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	47.01	20.48
For Seal Class B, Add	6.14	
For Seal Class A, Add	16.38	
For 28 Gauge, Deduct	-0.84	
For 24 Gauge, Add	0.83	
For 22 Gauge, Add	1.67	
For 20 Gauge, Add	2.50	
For 18 Gauge, Add	3.33	
For 16 Gauge, Add	4.08	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.48	
For Work In Restricted Working Space, Add	12.29	
For Elevated Installation >10' To 15', Add	4.10	
For Elevated Installation >15' To 20', Add	8.19	
For Elevated Installation >20' To 25', Add	10.24	
For Elevated Installation >25' To 30', Add	14.34	
For Elevated Installation >30' To 35', Add	16.38	
For Elevated Installation >35' To 40', Add	20.48	
For Elevated Installation >40', Add	22.53	
23 31 13 16-0016 EA 5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	53.84	23.63
For Seal Class B, Add	7.09	
For Seal Class A, Add	18.90	
For 28 Gauge, Deduct	-0.91	
For 24 Gauge, Add	0.91	
For 22 Gauge, Add	1.82	
For 20 Gauge, Add	2.73	
For 18 Gauge, Add	3.62	
For 16 Gauge, Add	4.45	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.88	
For Work In Restricted Working Space, Add	14.18	
For Elevated Installation >10' To 15', Add	4.73	
For Elevated Installation >15' To 20', Add	9.45	
For Elevated Installation >20' To 25', Add	11.81	
For Elevated Installation >25' To 30', Add	16.54	
For Elevated Installation >30' To 35', Add	18.90	
For Elevated Installation >35' To 40', Add	23.63	
For Elevated Installation >40', Add	25.99	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0017	EA		6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....	63.25	27.92
			<i>For Seal Class B, Add</i>	8.38	
			<i>For Seal Class A, Add</i>	22.34	
			<i>For 28 Gauge, Deduct</i>	-1.03	
			<i>For 24 Gauge, Add</i>	1.02	
			<i>For 22 Gauge, Add</i>	2.04	
			<i>For 20 Gauge, Add</i>	3.07	
			<i>For 18 Gauge, Add</i>	4.08	
			<i>For 16 Gauge, Add</i>	5.00	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	5.48	
			<i>For Work In Restricted Working Space, Add</i>	16.75	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.17	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.96	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.54	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.34	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	27.92	
			<i>For Elevated Installation &gt;40', Add</i>	30.71	
23 31 13 16-0018	EA		7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....	80.90	35.89
			<i>For Seal Class B, Add</i>	10.77	
			<i>For Seal Class A, Add</i>	28.72	
			<i>For 28 Gauge, Deduct</i>	-1.26	
			<i>For 24 Gauge, Add</i>	1.26	
			<i>For 22 Gauge, Add</i>	2.51	
			<i>For 20 Gauge, Add</i>	3.77	
			<i>For 18 Gauge, Add</i>	5.01	
			<i>For 16 Gauge, Add</i>	6.15	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.74	
			<i>For Work In Restricted Working Space, Add</i>	21.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.36	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	25.13	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	28.72	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	35.90	
			<i>For Elevated Installation &gt;40', Add</i>	39.48	
23 31 13 16-0019	EA		8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....	97.28	43.72
			<i>For Seal Class B, Add</i>	13.12	
			<i>For Seal Class A, Add</i>	34.98	
			<i>For 28 Gauge, Deduct</i>	-1.36	
			<i>For 24 Gauge, Add</i>	1.36	
			<i>For 22 Gauge, Add</i>	2.71	
			<i>For 20 Gauge, Add</i>	4.07	
			<i>For 18 Gauge, Add</i>	5.41	
			<i>For 16 Gauge, Add</i>	6.64	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	7.28	
			<i>For Work In Restricted Working Space, Add</i>	26.23	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.86	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.60	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	34.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	43.72	
			<i>For Elevated Installation &gt;40', Add</i>	48.09	
23 31 13 16-0020	EA		10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....	149.51	68.26
			<i>For Seal Class B, Add</i>	20.48	
			<i>For Seal Class A, Add</i>	54.61	
			<i>For 28 Gauge, Deduct</i>	-1.80	
			<i>For 24 Gauge, Add</i>	1.79	
			<i>For 22 Gauge, Add</i>	3.58	
			<i>For 20 Gauge, Add</i>	5.37	
			<i>For 18 Gauge, Add</i>	7.14	
			<i>For 16 Gauge, Add</i>	8.76	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	9.61	
			<i>For Work In Restricted Working Space, Add</i>	40.96	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	27.31	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	34.13	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	47.79	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	54.61	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	68.27	
			<i>For Elevated Installation &gt;40', Add</i>	75.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0021 EA 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....	206.27	94.34
For Seal Class B, Add	28.30	
For Seal Class A, Add	75.47	
For 28 Gauge, Deduct	-2.44	
For 24 Gauge, Add	2.43	
For 22 Gauge, Add	4.85	
For 20 Gauge, Add	7.28	
For 18 Gauge, Add	9.67	
For 16 Gauge, Add	11.87	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.02	
For Work In Restricted Working Space, Add	56.60	
For Elevated Installation >10' To 15', Add	18.87	
For Elevated Installation >15' To 20', Add	37.74	
For Elevated Installation >20' To 25', Add	47.17	
For Elevated Installation >25' To 30', Add	66.04	
For Elevated Installation >30' To 35', Add	75.47	
For Elevated Installation >35' To 40', Add	94.34	
For Elevated Installation >40', Add	103.77	
23 31 13 16-0022 EA 14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....	250.16	111.60
For Seal Class B, Add	33.48	
For Seal Class A, Add	89.28	
For 28 Gauge, Deduct	-3.73	
For 24 Gauge, Add	3.72	
For 22 Gauge, Add	7.43	
For 20 Gauge, Add	11.16	
For 18 Gauge, Add	14.83	
For 16 Gauge, Add	18.20	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.95	
For Work In Restricted Working Space, Add	66.96	
For Elevated Installation >10' To 15', Add	22.32	
For Elevated Installation >15' To 20', Add	44.64	
For Elevated Installation >20' To 25', Add	55.80	
For Elevated Installation >25' To 30', Add	78.12	
For Elevated Installation >30' To 35', Add	89.28	
For Elevated Installation >35' To 40', Add	111.60	
For Elevated Installation >40', Add	122.76	
23 31 13 16-0023 EA 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....	284.08	122.72
For Seal Class B, Add	36.82	
For Seal Class A, Add	98.18	
For 28 Gauge, Deduct	-5.35	
For 24 Gauge, Add	5.33	
For 22 Gauge, Add	10.65	
For 20 Gauge, Add	16.00	
For 18 Gauge, Add	21.25	
For 16 Gauge, Add	26.08	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	28.59	
For Work In Restricted Working Space, Add	73.63	
For Elevated Installation >10' To 15', Add	24.54	
For Elevated Installation >15' To 20', Add	49.09	
For Elevated Installation >20' To 25', Add	61.36	
For Elevated Installation >25' To 30', Add	85.90	
For Elevated Installation >30' To 35', Add	98.18	
For Elevated Installation >35' To 40', Add	122.72	
For Elevated Installation >40', Add	134.99	
23 31 13 16-0024 EA 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....	313.26	127.71
For Seal Class B, Add	38.31	
For Seal Class A, Add	102.16	
For 28 Gauge, Deduct	-8.01	
For 24 Gauge, Add	7.98	
For 22 Gauge, Add	15.94	
For 20 Gauge, Add	23.95	
For 18 Gauge, Add	31.82	
For 16 Gauge, Add	39.05	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	42.81	
For Work In Restricted Working Space, Add	76.62	
For Elevated Installation >10' To 15', Add	25.54	
For Elevated Installation >15' To 20', Add	51.08	
For Elevated Installation >20' To 25', Add	63.85	
For Elevated Installation >25' To 30', Add	89.39	
For Elevated Installation >30' To 35', Add	102.16	
For Elevated Installation >35' To 40', Add	127.71	
For Elevated Installation >40', Add	140.48	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0025	EA		20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow .....	340.98	131.92
			<i>For Seal Class B, Add</i>	39.58	
			<i>For Seal Class A, Add</i>	105.54	
			<i>For 28 Gauge, Deduct</i>	-10.68	
			<i>For 24 Gauge, Add</i>	10.64	
			<i>For 22 Gauge, Add</i>	21.25	
			<i>For 20 Gauge, Add</i>	31.93	
			<i>For 18 Gauge, Add</i>	42.42	
			<i>For 16 Gauge, Add</i>	52.06	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	57.08	
			<i>For Work In Restricted Working Space, Add</i>	79.16	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	26.39	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	52.77	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	65.96	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	92.35	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	105.54	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	131.93	
			<i>For Elevated Installation &gt;40', Add</i>	145.12	
23 31 13 16-0026			<b>Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbows</b> <small>(23 31 13 16-0001)</small>		
23 31 13 16-0027	EA		4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow .....	39.61	13.80
			<i>For Seal Class B, Add</i>	5.18	
			<i>For Seal Class A, Add</i>	13.81	
			<i>For 28 Gauge, Deduct</i>	-0.70	
			<i>For 24 Gauge, Add</i>	0.70	
			<i>For 22 Gauge, Add</i>	1.40	
			<i>For 20 Gauge, Add</i>	2.11	
			<i>For 18 Gauge, Add</i>	2.80	
			<i>For 16 Gauge, Add</i>	3.44	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.77	
			<i>For Work In Restricted Working Space, Add</i>	10.36	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.45	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.90	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.63	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.08	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.81	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.26	
			<i>For Elevated Installation &gt;40', Add</i>	18.99	
23 31 13 16-0028	EA		5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow .....	45.24	15.80
			<i>For Seal Class B, Add</i>	5.92	
			<i>For Seal Class A, Add</i>	15.78	
			<i>For 28 Gauge, Deduct</i>	-0.80	
			<i>For 24 Gauge, Add</i>	0.80	
			<i>For 22 Gauge, Add</i>	1.60	
			<i>For 20 Gauge, Add</i>	2.40	
			<i>For 18 Gauge, Add</i>	3.19	
			<i>For 16 Gauge, Add</i>	3.92	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.29	
			<i>For Work In Restricted Working Space, Add</i>	11.83	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.89	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.86	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.80	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	15.78	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	19.72	
			<i>For Elevated Installation &gt;40', Add</i>	21.69	
23 31 13 16-0029	EA		6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow .....	52.63	18.41
			<i>For Seal Class B, Add</i>	6.90	
			<i>For Seal Class A, Add</i>	18.41	
			<i>For 28 Gauge, Deduct</i>	-0.92	
			<i>For 24 Gauge, Add</i>	0.91	
			<i>For 22 Gauge, Add</i>	1.82	
			<i>For 20 Gauge, Add</i>	2.74	
			<i>For 18 Gauge, Add</i>	3.64	
			<i>For 16 Gauge, Add</i>	4.46	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.89	
			<i>For Work In Restricted Working Space, Add</i>	13.81	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.60	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.20	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.51	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.41	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.01	
			<i>For Elevated Installation &gt;40', Add</i>	25.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0030 EA 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	62.23	22.09
For Seal Class B, Add	8.28	
For Seal Class A, Add	22.09	
For 28 Gauge, Deduct	-0.97	
For 24 Gauge, Add	0.97	
For 22 Gauge, Add	1.93	
For 20 Gauge, Add	2.90	
For 18 Gauge, Add	3.85	
For 16 Gauge, Add	4.73	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.18	
For Work In Restricted Working Space, Add	16.57	
For Elevated Installation >10' To 15', Add	5.52	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.33	
For Elevated Installation >30' To 35', Add	22.09	
For Elevated Installation >35' To 40', Add	27.62	
For Elevated Installation >40', Add	30.38	
23 31 13 16-0031 EA 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	77.15	27.61
For Seal Class B, Add	10.35	
For Seal Class A, Add	27.61	
For 28 Gauge, Deduct	-1.12	
For 24 Gauge, Add	1.12	
For 22 Gauge, Add	2.24	
For 20 Gauge, Add	3.36	
For 18 Gauge, Add	4.47	
For 16 Gauge, Add	5.48	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.01	
For Work In Restricted Working Space, Add	20.71	
For Elevated Installation >10' To 15', Add	6.90	
For Elevated Installation >15' To 20', Add	13.81	
For Elevated Installation >20' To 25', Add	17.26	
For Elevated Installation >25' To 30', Add	24.16	
For Elevated Installation >30' To 35', Add	27.61	
For Elevated Installation >35' To 40', Add	34.52	
For Elevated Installation >40', Add	37.97	
23 31 13 16-0032 EA 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	103.65	36.82
For Seal Class B, Add	13.81	
For Seal Class A, Add	36.82	
For 28 Gauge, Deduct	-1.61	
For 24 Gauge, Add	1.60	
For 22 Gauge, Add	3.20	
For 20 Gauge, Add	4.81	
For 18 Gauge, Add	6.39	
For 16 Gauge, Add	7.84	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.59	
For Work In Restricted Working Space, Add	27.61	
For Elevated Installation >10' To 15', Add	9.20	
For Elevated Installation >15' To 20', Add	18.41	
For Elevated Installation >20' To 25', Add	23.01	
For Elevated Installation >25' To 30', Add	32.21	
For Elevated Installation >30' To 35', Add	36.82	
For Elevated Installation >35' To 40', Add	46.02	
For Elevated Installation >40', Add	50.62	
23 31 13 16-0033 EA 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	153.42	55.23
For Seal Class B, Add	20.71	
For Seal Class A, Add	55.22	
For 28 Gauge, Deduct	-2.13	
For 24 Gauge, Add	2.12	
For 22 Gauge, Add	4.23	
For 20 Gauge, Add	6.36	
For 18 Gauge, Add	8.45	
For 16 Gauge, Add	10.37	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.37	
For Work In Restricted Working Space, Add	41.42	
For Elevated Installation >10' To 15', Add	13.81	
For Elevated Installation >15' To 20', Add	27.61	
For Elevated Installation >20' To 25', Add	34.52	
For Elevated Installation >25' To 30', Add	48.32	
For Elevated Installation >30' To 35', Add	55.22	
For Elevated Installation >35' To 40', Add	69.03	
For Elevated Installation >40', Add	75.93	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0034	EA		14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow .....	205.16	70.56
			<i>For Seal Class B, Add</i>	26.46	
			<i>For Seal Class A, Add</i>	70.56	
			<i>For 28 Gauge, Deduct</i>	-3.98	
			<i>For 24 Gauge, Add</i>	3.97	
			<i>For 22 Gauge, Add</i>	7.92	
			<i>For 20 Gauge, Add</i>	11.90	
			<i>For 18 Gauge, Add</i>	15.81	
			<i>For 16 Gauge, Add</i>	19.41	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	21.28	
			<i>For Work In Restricted Working Space, Add</i>	52.92	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	35.28	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	44.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	61.74	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	70.56	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	88.21	
			<i>For Elevated Installation &gt;40', Add</i>	97.03	
23 31 13 16-0035	EA		16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow .....	257.60	88.97
			<i>For Seal Class B, Add</i>	33.36	
			<i>For Seal Class A, Add</i>	88.97	
			<i>For 28 Gauge, Deduct</i>	-4.87	
			<i>For 24 Gauge, Add</i>	4.85	
			<i>For 22 Gauge, Add</i>	9.69	
			<i>For 20 Gauge, Add</i>	14.56	
			<i>For 18 Gauge, Add</i>	19.34	
			<i>For 16 Gauge, Add</i>	23.74	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	26.03	
			<i>For Work In Restricted Working Space, Add</i>	66.73	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	22.24	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	44.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	55.61	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	77.85	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	88.97	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	111.22	
			<i>For Elevated Installation &gt;40', Add</i>	122.34	
23 31 13 16-0036	EA		18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow .....	286.27	92.81
			<i>For Seal Class B, Add</i>	34.74	
			<i>For Seal Class A, Add</i>	92.65	
			<i>For 28 Gauge, Deduct</i>	-7.57	
			<i>For 24 Gauge, Add</i>	7.54	
			<i>For 22 Gauge, Add</i>	15.05	
			<i>For 20 Gauge, Add</i>	22.62	
			<i>For 18 Gauge, Add</i>	30.05	
			<i>For 16 Gauge, Add</i>	36.88	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	40.43	
			<i>For Work In Restricted Working Space, Add</i>	69.49	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	23.16	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	46.33	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	57.91	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	81.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	92.65	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	115.82	
			<i>For Elevated Installation &gt;40', Add</i>	127.40	
23 31 13 16-0037	EA		20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow .....	310.63	95.10
			<i>For Seal Class B, Add</i>	35.67	
			<i>For Seal Class A, Add</i>	95.11	
			<i>For 28 Gauge, Deduct</i>	-10.09	
			<i>For 24 Gauge, Add</i>	10.05	
			<i>For 22 Gauge, Add</i>	20.07	
			<i>For 20 Gauge, Add</i>	30.16	
			<i>For 18 Gauge, Add</i>	40.07	
			<i>For 16 Gauge, Add</i>	49.17	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	53.91	
			<i>For Work In Restricted Working Space, Add</i>	71.33	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	23.78	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	47.56	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	59.45	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	83.22	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	95.11	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	118.89	
			<i>For Elevated Installation &gt;40', Add</i>	130.78	

23 31 13 16-0038 Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbows (23 31 13 16-0001)





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0039 EA 4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	37.72	13.80
For Seal Class B, Add	5.18	
For Seal Class A, Add	13.81	
For 28 Gauge, Deduct	-0.44	
For 24 Gauge, Add	0.44	
For 22 Gauge, Add	0.88	
For 20 Gauge, Add	1.32	
For 18 Gauge, Add	1.76	
For 16 Gauge, Add	2.16	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.37	
For Work In Restricted Working Space, Add	10.36	
For Elevated Installation >10' To 15', Add	3.45	
For Elevated Installation >15' To 20', Add	6.90	
For Elevated Installation >20' To 25', Add	8.63	
For Elevated Installation >25' To 30', Add	12.08	
For Elevated Installation >30' To 35', Add	13.81	
For Elevated Installation >35' To 40', Add	17.26	
For Elevated Installation >40', Add	18.99	
23 31 13 16-0040 EA 5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	43.55	15.80
For Seal Class B, Add	5.92	
For Seal Class A, Add	15.78	
For 28 Gauge, Deduct	-0.57	
For 24 Gauge, Add	0.57	
For 22 Gauge, Add	1.13	
For 20 Gauge, Add	1.70	
For 18 Gauge, Add	2.26	
For 16 Gauge, Add	2.77	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.04	
For Work In Restricted Working Space, Add	11.83	
For Elevated Installation >10' To 15', Add	3.94	
For Elevated Installation >15' To 20', Add	7.89	
For Elevated Installation >20' To 25', Add	9.86	
For Elevated Installation >25' To 30', Add	13.80	
For Elevated Installation >30' To 35', Add	15.78	
For Elevated Installation >35' To 40', Add	19.72	
For Elevated Installation >40', Add	21.69	
23 31 13 16-0041 EA 6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	50.50	18.41
For Seal Class B, Add	6.90	
For Seal Class A, Add	18.41	
For 28 Gauge, Deduct	-0.62	
For 24 Gauge, Add	0.62	
For 22 Gauge, Add	1.23	
For 20 Gauge, Add	1.85	
For 18 Gauge, Add	2.46	
For 16 Gauge, Add	3.02	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.32	
For Work In Restricted Working Space, Add	13.81	
For Elevated Installation >10' To 15', Add	4.60	
For Elevated Installation >15' To 20', Add	9.20	
For Elevated Installation >20' To 25', Add	11.51	
For Elevated Installation >25' To 30', Add	16.11	
For Elevated Installation >30' To 35', Add	18.41	
For Elevated Installation >35' To 40', Add	23.01	
For Elevated Installation >40', Add	25.31	
23 31 13 16-0042 EA 7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	60.43	22.09
For Seal Class B, Add	8.28	
For Seal Class A, Add	22.09	
For 28 Gauge, Deduct	-0.72	
For 24 Gauge, Add	0.72	
For 22 Gauge, Add	1.43	
For 20 Gauge, Add	2.15	
For 18 Gauge, Add	2.86	
For 16 Gauge, Add	3.51	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.85	
For Work In Restricted Working Space, Add	16.57	
For Elevated Installation >10' To 15', Add	5.52	
For Elevated Installation >15' To 20', Add	11.05	
For Elevated Installation >20' To 25', Add	13.81	
For Elevated Installation >25' To 30', Add	19.33	
For Elevated Installation >30' To 35', Add	22.09	
For Elevated Installation >35' To 40', Add	27.62	
For Elevated Installation >40', Add	30.38	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0043	EA		8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow .....	74.94	27.61
			<i>For Seal Class B, Add</i>	10.35	
			<i>For Seal Class A, Add</i>	27.61	
			<i>For 28 Gauge, Deduct</i>	-0.82	
			<i>For 24 Gauge, Add</i>	0.82	
			<i>For 22 Gauge, Add</i>	1.63	
			<i>For 20 Gauge, Add</i>	2.45	
			<i>For 18 Gauge, Add</i>	3.25	
			<i>For 16 Gauge, Add</i>	3.99	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.37	
			<i>For Work In Restricted Working Space, Add</i>	20.71	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.90	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.81	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.26	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.16	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.61	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	34.52	
			<i>For Elevated Installation &gt;40', Add</i>	37.97	
23 31 13 16-0044	EA		10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow .....	101.06	36.82
			<i>For Seal Class B, Add</i>	13.81	
			<i>For Seal Class A, Add</i>	36.82	
			<i>For 28 Gauge, Deduct</i>	-1.25	
			<i>For 24 Gauge, Add</i>	1.24	
			<i>For 22 Gauge, Add</i>	2.49	
			<i>For 20 Gauge, Add</i>	3.73	
			<i>For 18 Gauge, Add</i>	4.96	
			<i>For 16 Gauge, Add</i>	6.09	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.67	
			<i>For Work In Restricted Working Space, Add</i>	27.61	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.20	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.41	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	23.01	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	32.21	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	36.82	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	46.02	
			<i>For Elevated Installation &gt;40', Add</i>	50.62	
23 31 13 16-0045	EA		12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow .....	149.67	55.23
			<i>For Seal Class B, Add</i>	20.71	
			<i>For Seal Class A, Add</i>	55.22	
			<i>For 28 Gauge, Deduct</i>	-1.61	
			<i>For 24 Gauge, Add</i>	1.60	
			<i>For 22 Gauge, Add</i>	3.20	
			<i>For 20 Gauge, Add</i>	4.81	
			<i>For 18 Gauge, Add</i>	6.39	
			<i>For 16 Gauge, Add</i>	7.84	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	8.59	
			<i>For Work In Restricted Working Space, Add</i>	41.42	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	27.61	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	34.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	48.32	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	55.22	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	69.03	
			<i>For Elevated Installation &gt;40', Add</i>	75.93	
23 31 13 16-0046	EA		14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow .....	196.50	70.56
			<i>For Seal Class B, Add</i>	26.46	
			<i>For Seal Class A, Add</i>	70.56	
			<i>For 28 Gauge, Deduct</i>	-2.78	
			<i>For 24 Gauge, Add</i>	2.77	
			<i>For 22 Gauge, Add</i>	5.53	
			<i>For 20 Gauge, Add</i>	8.32	
			<i>For 18 Gauge, Add</i>	11.05	
			<i>For 16 Gauge, Add</i>	13.56	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	14.87	
			<i>For Work In Restricted Working Space, Add</i>	52.92	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.64	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	35.28	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	44.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	61.74	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	70.56	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	88.21	
			<i>For Elevated Installation &gt;40', Add</i>	97.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0047 EA 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow .....	255.37	88.97
For Seal Class B, Add	33.36	
For Seal Class A, Add	88.97	
For 28 Gauge, Deduct	-4.56	
For 24 Gauge, Add	4.55	
For 22 Gauge, Add	9.07	
For 20 Gauge, Add	13.64	
For 18 Gauge, Add	18.12	
For 16 Gauge, Add	22.23	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.38	
For Work In Restricted Working Space, Add	66.73	
For Elevated Installation >10' To 15', Add	22.24	
For Elevated Installation >15' To 20', Add	44.49	
For Elevated Installation >20' To 25', Add	55.61	
For Elevated Installation >25' To 30', Add	77.85	
For Elevated Installation >30' To 35', Add	88.97	
For Elevated Installation >35' To 40', Add	111.22	
For Elevated Installation >40', Add	122.34	
23 31 13 16-0048 EA 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow .....	271.45	92.81
For Seal Class B, Add	34.74	
For Seal Class A, Add	92.65	
For 28 Gauge, Deduct	-5.52	
For 24 Gauge, Add	5.50	
For 22 Gauge, Add	10.97	
For 20 Gauge, Add	16.49	
For 18 Gauge, Add	21.90	
For 16 Gauge, Add	26.88	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	29.47	
For Work In Restricted Working Space, Add	69.49	
For Elevated Installation >10' To 15', Add	23.16	
For Elevated Installation >15' To 20', Add	46.33	
For Elevated Installation >20' To 25', Add	57.91	
For Elevated Installation >25' To 30', Add	81.07	
For Elevated Installation >30' To 35', Add	92.65	
For Elevated Installation >35' To 40', Add	115.82	
For Elevated Installation >40', Add	127.40	
23 31 13 16-0049 EA 20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow .....	288.79	95.10
For Seal Class B, Add	35.67	
For Seal Class A, Add	95.11	
For 28 Gauge, Deduct	-7.06	
For 24 Gauge, Add	7.04	
For 22 Gauge, Add	14.05	
For 20 Gauge, Add	21.12	
For 18 Gauge, Add	28.06	
For 16 Gauge, Add	34.43	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	37.75	
For Work In Restricted Working Space, Add	71.33	
For Elevated Installation >10' To 15', Add	23.78	
For Elevated Installation >15' To 20', Add	47.56	
For Elevated Installation >20' To 25', Add	59.45	
For Elevated Installation >25' To 30', Add	83.22	
For Elevated Installation >30' To 35', Add	95.11	
For Elevated Installation >35' To 40', Add	118.89	
For Elevated Installation >40', Add	130.78	
<b>23 31 13 16-0050 Galvanized Sheet Metal Round And Flat-Oval Tees (23 31 13 16-0001)</b>		
23 31 13 16-0051 EA 4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	58.89	20.71
For Seal Class B, Add	7.77	
For Seal Class A, Add	20.71	
For 28 Gauge, Deduct	-0.99	
For 24 Gauge, Add	0.98	
For 22 Gauge, Add	1.96	
For 20 Gauge, Add	2.95	
For 18 Gauge, Add	3.92	
For 16 Gauge, Add	4.81	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.27	
For Work In Restricted Working Space, Add	15.53	
For Elevated Installation >10' To 15', Add	5.18	
For Elevated Installation >15' To 20', Add	10.35	
For Elevated Installation >20' To 25', Add	12.94	
For Elevated Installation >25' To 30', Add	18.12	
For Elevated Installation >30' To 35', Add	20.71	
For Elevated Installation >35' To 40', Add	25.89	
For Elevated Installation >40', Add	28.47	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0052	EA		5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	68.63	23.63
			<i>For Seal Class B, Add</i>	8.88	
			<i>For Seal Class A, Add</i>	23.67	
			<i>For 28 Gauge, Deduct</i>	-1.31	
			<i>For 24 Gauge, Add</i>	1.31	
			<i>For 22 Gauge, Add</i>	2.61	
			<i>For 20 Gauge, Add</i>	3.92	
			<i>For 18 Gauge, Add</i>	5.20	
			<i>For 16 Gauge, Add</i>	6.39	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	7.00	
			<i>For Work In Restricted Working Space, Add</i>	17.75	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.83	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	20.71	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	23.67	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	29.59	
			<i>For Elevated Installation &gt;40', Add</i>	32.54	
23 31 13 16-0053	EA		6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	79.30	27.61
			<i>For Seal Class B, Add</i>	10.35	
			<i>For Seal Class A, Add</i>	27.61	
			<i>For 28 Gauge, Deduct</i>	-1.42	
			<i>For 24 Gauge, Add</i>	1.42	
			<i>For 22 Gauge, Add</i>	2.83	
			<i>For 20 Gauge, Add</i>	4.25	
			<i>For 18 Gauge, Add</i>	5.65	
			<i>For 16 Gauge, Add</i>	6.93	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	7.60	
			<i>For Work In Restricted Working Space, Add</i>	20.71	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.90	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.81	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.26	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.16	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.61	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	34.52	
			<i>For Elevated Installation &gt;40', Add</i>	37.97	
23 31 13 16-0054	EA		7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	94.65	33.14
			<i>For Seal Class B, Add</i>	12.42	
			<i>For Seal Class A, Add</i>	33.13	
			<i>For 28 Gauge, Deduct</i>	-1.64	
			<i>For 24 Gauge, Add</i>	1.63	
			<i>For 22 Gauge, Add</i>	3.26	
			<i>For 20 Gauge, Add</i>	4.89	
			<i>For 18 Gauge, Add</i>	6.50	
			<i>For 16 Gauge, Add</i>	7.98	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	8.75	
			<i>For Work In Restricted Working Space, Add</i>	24.85	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.28	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.57	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.71	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	28.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.13	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.42	
			<i>For Elevated Installation &gt;40', Add</i>	45.56	
23 31 13 16-0055	EA		8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	122.66	41.41
			<i>For Seal Class B, Add</i>	15.53	
			<i>For Seal Class A, Add</i>	41.42	
			<i>For 28 Gauge, Deduct</i>	-2.65	
			<i>For 24 Gauge, Add</i>	2.64	
			<i>For 22 Gauge, Add</i>	5.26	
			<i>For 20 Gauge, Add</i>	7.91	
			<i>For 18 Gauge, Add</i>	10.51	
			<i>For 16 Gauge, Add</i>	12.89	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	14.13	
			<i>For Work In Restricted Working Space, Add</i>	31.07	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.36	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.89	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	36.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	41.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	51.78	
			<i>For Elevated Installation &gt;40', Add</i>	56.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0056 EA 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	162.43	55.23
For Seal Class B, Add	20.71	
For Seal Class A, Add	55.22	
For 28 Gauge, Deduct	-3.38	
For 24 Gauge, Add	3.36	
For 22 Gauge, Add	6.71	
For 20 Gauge, Add	10.09	
For 18 Gauge, Add	13.40	
For 16 Gauge, Add	16.45	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	18.03	
For Work In Restricted Working Space, Add	41.42	
For Elevated Installation >10' To 15', Add	13.81	
For Elevated Installation >15' To 20', Add	27.61	
For Elevated Installation >20' To 25', Add	34.52	
For Elevated Installation >25' To 30', Add	48.32	
For Elevated Installation >30' To 35', Add	55.22	
For Elevated Installation >35' To 40', Add	69.03	
For Elevated Installation >40', Add	75.93	
23 31 13 16-0057 EA 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	231.42	82.84
For Seal Class B, Add	31.06	
For Seal Class A, Add	82.82	
For 28 Gauge, Deduct	-3.38	
For 24 Gauge, Add	3.36	
For 22 Gauge, Add	6.71	
For 20 Gauge, Add	10.09	
For 18 Gauge, Add	13.40	
For 16 Gauge, Add	16.45	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	18.03	
For Work In Restricted Working Space, Add	62.12	
For Elevated Installation >10' To 15', Add	20.71	
For Elevated Installation >15' To 20', Add	41.41	
For Elevated Installation >20' To 25', Add	51.76	
For Elevated Installation >25' To 30', Add	72.47	
For Elevated Installation >30' To 35', Add	82.82	
For Elevated Installation >35' To 40', Add	103.53	
For Elevated Installation >40', Add	113.88	
23 31 13 16-0058 EA 14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	310.90	105.54
For Seal Class B, Add	39.67	
For Seal Class A, Add	105.79	
For 28 Gauge, Deduct	-6.43	
For 24 Gauge, Add	6.41	
For 22 Gauge, Add	12.79	
For 20 Gauge, Add	19.22	
For 18 Gauge, Add	25.53	
For 16 Gauge, Add	31.33	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	34.35	
For Work In Restricted Working Space, Add	79.34	
For Elevated Installation >10' To 15', Add	26.45	
For Elevated Installation >15' To 20', Add	52.90	
For Elevated Installation >20' To 25', Add	66.12	
For Elevated Installation >25' To 30', Add	92.57	
For Elevated Installation >30' To 35', Add	105.79	
For Elevated Installation >35' To 40', Add	132.24	
For Elevated Installation >40', Add	145.46	
23 31 13 16-0059 EA 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	398.65	133.76
For Seal Class B, Add	50.02	
For Seal Class A, Add	133.39	
For 28 Gauge, Deduct	-9.03	
For 24 Gauge, Add	8.99	
For 22 Gauge, Add	17.95	
For 20 Gauge, Add	26.98	
For 18 Gauge, Add	35.84	
For 16 Gauge, Add	43.99	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	48.23	
For Work In Restricted Working Space, Add	100.04	
For Elevated Installation >10' To 15', Add	33.35	
For Elevated Installation >15' To 20', Add	66.70	
For Elevated Installation >20' To 25', Add	83.37	
For Elevated Installation >25' To 30', Add	116.72	
For Elevated Installation >30' To 35', Add	133.39	
For Elevated Installation >35' To 40', Add	166.74	
For Elevated Installation >40', Add	183.41	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0060	EA		18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	455.80	148.79
			<i>For Seal Class B, Add</i>	55.92	
			<i>For Seal Class A, Add</i>	149.11	
			<i>For 28 Gauge, Deduct</i>	-11.50	
			<i>For 24 Gauge, Add</i>	11.46	
			<i>For 22 Gauge, Add</i>	22.87	
			<i>For 20 Gauge, Add</i>	34.37	
			<i>For 18 Gauge, Add</i>	45.67	
			<i>For 16 Gauge, Add</i>	56.05	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	61.44	
			<i>For Work In Restricted Working Space, Add</i>	111.83	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	37.28	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	74.55	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	93.19	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	130.47	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	149.11	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	186.39	
			<i>For Elevated Installation &gt;40', Add</i>	205.02	
23 31 13 16-0061	EA		20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Tee .....	477.16	154.16
			<i>For Seal Class B, Add</i>	57.75	
			<i>For Seal Class A, Add</i>	154.01	
			<i>For 28 Gauge, Deduct</i>	-12.76	
			<i>For 24 Gauge, Add</i>	12.71	
			<i>For 22 Gauge, Add</i>	25.38	
			<i>For 20 Gauge, Add</i>	38.14	
			<i>For 18 Gauge, Add</i>	50.67	
			<i>For 16 Gauge, Add</i>	62.19	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	68.18	
			<i>For Work In Restricted Working Space, Add</i>	115.51	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	38.50	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	77.01	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	96.26	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	134.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	154.01	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	192.52	
			<i>For Elevated Installation &gt;40', Add</i>	211.77	
<b>23 31 13 16-0062</b>			<b>Galvanized Sheet Metal Round And Flat-Oval Connectors (23 31 13 16-0001)</b>		
23 31 13 16-0063	EA		4" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector .....	26.93	
			<i>For Seal Class B, Add</i>	3.68	
			<i>For Seal Class A, Add</i>	9.82	
			<i>For Work In Restricted Working Space, Add</i>	7.36	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.45	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.91	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.14	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.82	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	12.27	
			<i>For Elevated Installation &gt;40', Add</i>	13.50	
23 31 13 16-0064	EA		5" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector .....	28.36	
			<i>For Seal Class B, Add</i>	3.87	
			<i>For Seal Class A, Add</i>	10.32	
			<i>For Work In Restricted Working Space, Add</i>	7.74	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.16	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.45	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.03	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.32	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	12.90	
			<i>For Elevated Installation &gt;40', Add</i>	14.18	
23 31 13 16-0065	EA		6" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector .....	30.38	
			<i>For Seal Class B, Add</i>	4.14	
			<i>For Seal Class A, Add</i>	11.04	
			<i>For Work In Restricted Working Space, Add</i>	8.28	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.76	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.52	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.90	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.66	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.81	
			<i>For Elevated Installation &gt;40', Add</i>	15.19	
23 31 13 16-0066	EA		7" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector .....	32.31	
			<i>For Seal Class B, Add</i>	4.37	
			<i>For Seal Class A, Add</i>	11.66	
			<i>For Work In Restricted Working Space, Add</i>	8.75	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.83	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.29	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.20	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.66	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	14.58	
			<i>For Elevated Installation &gt;40', Add</i>	16.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0067 EA 8" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....	35.02	
For Seal Class B, Add	4.72	
For Seal Class A, Add	12.58	
For Work In Restricted Working Space, Add	9.44	
For Elevated Installation >10' To 15', Add	3.15	
For Elevated Installation >15' To 20', Add	6.29	
For Elevated Installation >20' To 25', Add	7.86	
For Elevated Installation >25' To 30', Add	11.01	
For Elevated Installation >30' To 35', Add	12.58	
For Elevated Installation >35' To 40', Add	15.73	
For Elevated Installation >40', Add	17.30	
23 31 13 16-0068 EA 10" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....	40.75	
For Seal Class B, Add	5.27	
For Seal Class A, Add	14.05	
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.78	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.05	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.32	
23 31 13 16-0069 EA 12" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....	55.87	
For Seal Class B, Add	7.36	
For Seal Class A, Add	19.64	
For Work In Restricted Working Space, Add	14.73	
For Elevated Installation >10' To 15', Add	4.91	
For Elevated Installation >15' To 20', Add	9.82	
For Elevated Installation >20' To 25', Add	12.27	
For Elevated Installation >25' To 30', Add	17.18	
For Elevated Installation >30' To 35', Add	19.64	
For Elevated Installation >35' To 40', Add	24.55	
For Elevated Installation >40', Add	27.00	
23 31 13 16-0070 EA 14" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....	63.75	
For Seal Class B, Add	8.38	
For Seal Class A, Add	22.34	
For Work In Restricted Working Space, Add	16.76	
For Elevated Installation >10' To 15', Add	5.59	
For Elevated Installation >15' To 20', Add	11.17	
For Elevated Installation >20' To 25', Add	13.97	
For Elevated Installation >25' To 30', Add	19.55	
For Elevated Installation >30' To 35', Add	22.34	
For Elevated Installation >35' To 40', Add	27.93	
For Elevated Installation >40', Add	30.72	
23 31 13 16-0071 EA 16" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....	70.06	
For Seal Class B, Add	9.18	
For Seal Class A, Add	24.49	
For Work In Restricted Working Space, Add	18.37	
For Elevated Installation >10' To 15', Add	6.12	
For Elevated Installation >15' To 20', Add	12.24	
For Elevated Installation >20' To 25', Add	15.31	
For Elevated Installation >25' To 30', Add	21.43	
For Elevated Installation >30' To 35', Add	24.49	
For Elevated Installation >35' To 40', Add	30.61	
For Elevated Installation >40', Add	33.67	
23 31 13 16-0072 EA 18" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....	76.14	
For Seal Class B, Add	9.94	
For Seal Class A, Add	26.51	
For Work In Restricted Working Space, Add	19.88	
For Elevated Installation >10' To 15', Add	6.63	
For Elevated Installation >15' To 20', Add	13.25	
For Elevated Installation >20' To 25', Add	16.57	
For Elevated Installation >25' To 30', Add	23.19	
For Elevated Installation >30' To 35', Add	26.51	
For Elevated Installation >35' To 40', Add	33.14	
For Elevated Installation >40', Add	36.45	
23 31 13 16-0073 EA 20" Diameter, 26 Gauge, Seal Class C, Galvanized Sheet Metal Round And Flat-Oval Connector.....	82.96	
For Seal Class B, Add	10.84	
For Seal Class A, Add	28.90	
For Work In Restricted Working Space, Add	21.68	
For Elevated Installation >10' To 15', Add	7.23	
For Elevated Installation >15' To 20', Add	14.45	
For Elevated Installation >20' To 25', Add	18.06	
For Elevated Installation >25' To 30', Add	25.29	
For Elevated Installation >30' To 35', Add	28.90	
For Elevated Installation >35' To 40', Add	36.13	
For Elevated Installation >40', Add	39.74	

23 31 13 16-0074 Slip Joint, Galvanized, Spiral Duct And Fittings (23 31 13 16)

23 31 13 16-0075 Slip Joint, Galvanized, Spiral Duct (23 31 13 16-0074)

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0076	LF		4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	12.46	1.42
			<i>For Seal Class B, Add</i>	1.14	
			<i>For Seal Class A, Add</i>	3.03	
			<i>For Up To 20', Add</i>	1.46	
			<i>For &gt;20' To 50', Add</i>	0.59	
			<i>For &gt;200' To 500', Deduct</i>	-0.37	
			<i>For &gt;500', Deduct</i>	-0.61	
			<i>For 24 Gauge, Add</i>	0.98	
			<i>For 22 Gauge, Add</i>	2.24	
			<i>For 20 Gauge, Add</i>	3.66	
			<i>For 18 Gauge, Add</i>	5.61	
			<i>For 16 Gauge, Add</i>	6.83	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.61	
			<i>For Work In Restricted Working Space, Add</i>	2.27	
23 31 13 16-0077	LF		6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	16.15	2.83
			<i>For Seal Class B, Add</i>	1.36	
			<i>For Seal Class A, Add</i>	3.64	
			<i>For Up To 20', Add</i>	2.12	
			<i>For &gt;20' To 50', Add</i>	0.85	
			<i>For &gt;200' To 500', Deduct</i>	-0.53	
			<i>For &gt;500', Deduct</i>	-0.88	
			<i>For 24 Gauge, Add</i>	1.41	
			<i>For 22 Gauge, Add</i>	3.25	
			<i>For 20 Gauge, Add</i>	5.30	
			<i>For 18 Gauge, Add</i>	8.12	
			<i>For 16 Gauge, Add</i>	9.88	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	5.22	
			<i>For Work In Restricted Working Space, Add</i>	2.73	
23 31 13 16-0078	LF		8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	20.57	2.83
			<i>For Seal Class B, Add</i>	1.69	
			<i>For Seal Class A, Add</i>	4.51	
			<i>For Up To 20', Add</i>	2.79	
			<i>For &gt;20' To 50', Add</i>	1.11	
			<i>For &gt;200' To 500', Deduct</i>	-0.70	
			<i>For &gt;500', Deduct</i>	-1.16	
			<i>For 24 Gauge, Add</i>	1.86	
			<i>For 22 Gauge, Add</i>	4.27	
			<i>For 20 Gauge, Add</i>	6.97	
			<i>For 18 Gauge, Add</i>	10.68	
			<i>For 16 Gauge, Add</i>	13.01	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.87	
			<i>For Work In Restricted Working Space, Add</i>	3.38	
23 31 13 16-0079	LF		10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	25.02	2.83
			<i>For Seal Class B, Add</i>	2.03	
			<i>For Seal Class A, Add</i>	5.42	
			<i>For Up To 20', Add</i>	3.44	
			<i>For &gt;20' To 50', Add</i>	1.38	
			<i>For &gt;200' To 500', Deduct</i>	-0.86	
			<i>For &gt;500', Deduct</i>	-1.43	
			<i>For 24 Gauge, Add</i>	2.29	
			<i>For 22 Gauge, Add</i>	5.28	
			<i>For 20 Gauge, Add</i>	8.60	
			<i>For 18 Gauge, Add</i>	13.19	
			<i>For 16 Gauge, Add</i>	16.06	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	8.49	
			<i>For Work In Restricted Working Space, Add</i>	4.07	
23 31 13 16-0080	LF		12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	31.08	4.24
			<i>For Seal Class B, Add</i>	2.55	
			<i>For Seal Class A, Add</i>	6.79	
			<i>For Up To 20', Add</i>	4.23	
			<i>For &gt;20' To 50', Add</i>	1.69	
			<i>For &gt;200' To 500', Deduct</i>	-1.06	
			<i>For &gt;500', Deduct</i>	-1.76	
			<i>For 24 Gauge, Add</i>	2.82	
			<i>For 22 Gauge, Add</i>	6.49	
			<i>For 20 Gauge, Add</i>	10.58	
			<i>For 18 Gauge, Add</i>	16.23	
			<i>For 16 Gauge, Add</i>	19.75	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	10.44	
			<i>For Work In Restricted Working Space, Add</i>	5.09	
23 31 13 16-0081	LF		14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	37.56	4.24
			<i>For Seal Class B, Add</i>	3.18	
			<i>For Seal Class A, Add</i>	8.48	
			<i>For Up To 20', Add</i>	4.91	
			<i>For &gt;20' To 50', Add</i>	1.96	
			<i>For &gt;200' To 500', Deduct</i>	-1.23	
			<i>For &gt;500', Deduct</i>	-2.04	
			<i>For 24 Gauge, Add</i>	3.27	
			<i>For 22 Gauge, Add</i>	7.52	
			<i>For 20 Gauge, Add</i>	12.26	
			<i>For 18 Gauge, Add</i>	18.80	
			<i>For 16 Gauge, Add</i>	22.89	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	12.10	
			<i>For Work In Restricted Working Space, Add</i>	6.36	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0082 LF 16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	52.00	4.24
For Seal Class B, Add	4.24	
For Seal Class A, Add	11.30	
For Up To 20', Add	7.13	
For >20' To 50', Add	2.85	
For >200' To 500', Deduct	-1.78	
For >500', Deduct	-2.97	
For 24 Gauge, Add	4.75	
For 22 Gauge, Add	10.93	
For 20 Gauge, Add	17.81	
For 18 Gauge, Add	27.31	
For 16 Gauge, Add	33.25	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	17.58	
For Work In Restricted Working Space, Add	8.48	
23 31 13 16-0083 LF 18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	59.26	5.65
For Seal Class B, Add	4.94	
For Seal Class A, Add	13.17	
For Up To 20', Add	7.90	
For >20' To 50', Add	3.16	
For >200' To 500', Deduct	-1.97	
For >500', Deduct	-3.29	
For 24 Gauge, Add	5.27	
For 22 Gauge, Add	12.11	
For 20 Gauge, Add	19.75	
For 18 Gauge, Add	30.28	
For 16 Gauge, Add	36.86	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.48	
For Work In Restricted Working Space, Add	9.88	
23 31 13 16-0084 LF 20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	66.76	5.65
For Seal Class B, Add	5.61	
For Seal Class A, Add	14.96	
For Up To 20', Add	8.81	
For >20' To 50', Add	3.52	
For >200' To 500', Deduct	-2.20	
For >500', Deduct	-3.67	
For 24 Gauge, Add	5.87	
For 22 Gauge, Add	13.51	
For 20 Gauge, Add	22.03	
For 18 Gauge, Add	33.78	
For 16 Gauge, Add	41.12	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	21.73	
For Work In Restricted Working Space, Add	11.22	
23 31 13 16-0085 LF 22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	74.58	7.07
For Seal Class B, Add	6.32	
For Seal Class A, Add	16.84	
For Up To 20', Add	9.74	
For >20' To 50', Add	3.90	
For >200' To 500', Deduct	-2.44	
For >500', Deduct	-4.06	
For 24 Gauge, Add	6.49	
For 22 Gauge, Add	14.94	
For 20 Gauge, Add	24.35	
For 18 Gauge, Add	37.34	
For 16 Gauge, Add	45.46	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.03	
For Work In Restricted Working Space, Add	12.63	
23 31 13 16-0086 LF 24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct.....	82.41	8.49
For Seal Class B, Add	7.07	
For Seal Class A, Add	18.85	
For Up To 20', Add	10.58	
For >20' To 50', Add	4.23	
For >200' To 500', Deduct	-2.65	
For >500', Deduct	-4.41	
For 24 Gauge, Add	7.06	
For 22 Gauge, Add	16.23	
For 20 Gauge, Add	26.46	
For 18 Gauge, Add	40.57	
For 16 Gauge, Add	49.39	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	26.11	
For Work In Restricted Working Space, Add	14.14	
<b>23 31 13 16-0087 Slip Joint, Galvanized, Spiral 90 Degree Elbows</b> <small>(23 31 13 16-0074)</small>		
23 31 13 16-0088 EA 4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow .....	89.47	19.80
For Seal Class B, Add	11.47	
For Seal Class A, Add	30.58	
For 24 Gauge, Add	2.60	
For 22 Gauge, Add	5.99	
For 20 Gauge, Add	9.77	
For 18 Gauge, Add	14.97	
For 16 Gauge, Add	18.23	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.63	
For Work In Restricted Working Space, Add	22.94	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0089	EA		6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	131.62	28.28
			<i>For Seal Class B, Add</i>	16.97	
			<i>For Seal Class A, Add</i>	45.25	
			<i>For 24 Gauge, Add</i>	3.70	
			<i>For 22 Gauge, Add</i>	8.51	
			<i>For 20 Gauge, Add</i>	13.87	
			<i>For 18 Gauge, Add</i>	21.26	
			<i>For 16 Gauge, Add</i>	25.89	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	13.68	
			<i>For Work In Restricted Working Space, Add</i>	33.94	
23 31 13 16-0090	EA		8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	184.12	36.77
			<i>For Seal Class B, Add</i>	22.33	
			<i>For Seal Class A, Add</i>	59.54	
			<i>For 24 Gauge, Add</i>	7.05	
			<i>For 22 Gauge, Add</i>	16.22	
			<i>For 20 Gauge, Add</i>	26.45	
			<i>For 18 Gauge, Add</i>	40.55	
			<i>For 16 Gauge, Add</i>	49.36	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	26.09	
			<i>For Work In Restricted Working Space, Add</i>	44.66	
23 31 13 16-0091	EA		10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	230.06	46.67
			<i>For Seal Class B, Add</i>	28.28	
			<i>For Seal Class A, Add</i>	75.42	
			<i>For 24 Gauge, Add</i>	8.30	
			<i>For 22 Gauge, Add</i>	19.09	
			<i>For 20 Gauge, Add</i>	31.13	
			<i>For 18 Gauge, Add</i>	47.74	
			<i>For 16 Gauge, Add</i>	58.11	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	30.72	
			<i>For Work In Restricted Working Space, Add</i>	56.57	
23 31 13 16-0092	EA		12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	284.43	59.40
			<i>For Seal Class B, Add</i>	35.35	
			<i>For Seal Class A, Add</i>	94.28	
			<i>For 24 Gauge, Add</i>	9.75	
			<i>For 22 Gauge, Add</i>	22.42	
			<i>For 20 Gauge, Add</i>	36.56	
			<i>For 18 Gauge, Add</i>	56.05	
			<i>For 16 Gauge, Add</i>	68.24	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	36.07	
			<i>For Work In Restricted Working Space, Add</i>	70.71	
23 31 13 16-0093	EA		14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	311.37	65.05
			<i>For Seal Class B, Add</i>	38.57	
			<i>For Seal Class A, Add</i>	102.84	
			<i>For 24 Gauge, Add</i>	10.85	
			<i>For 22 Gauge, Add</i>	24.96	
			<i>For 20 Gauge, Add</i>	40.70	
			<i>For 18 Gauge, Add</i>	62.40	
			<i>For 16 Gauge, Add</i>	75.96	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	40.15	
			<i>For Work In Restricted Working Space, Add</i>	77.13	
23 31 13 16-0094	EA		16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	367.62	76.36
			<i>For Seal Class B, Add</i>	45.62	
			<i>For Seal Class A, Add</i>	121.65	
			<i>For 24 Gauge, Add</i>	12.70	
			<i>For 22 Gauge, Add</i>	29.21	
			<i>For 20 Gauge, Add</i>	47.63	
			<i>For 18 Gauge, Add</i>	73.03	
			<i>For 16 Gauge, Add</i>	88.90	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	46.99	
			<i>For Work In Restricted Working Space, Add</i>	91.24	
23 31 13 16-0095	EA		18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	450.18	94.75
			<i>For Seal Class B, Add</i>	56.57	
			<i>For Seal Class A, Add</i>	150.84	
			<i>For 24 Gauge, Add</i>	14.61	
			<i>For 22 Gauge, Add</i>	33.61	
			<i>For 20 Gauge, Add</i>	54.80	
			<i>For 18 Gauge, Add</i>	84.03	
			<i>For 16 Gauge, Add</i>	102.30	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	54.07	
			<i>For Work In Restricted Working Space, Add</i>	113.13	
23 31 13 16-0096	EA		20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow.....	542.43	114.54
			<i>For Seal Class B, Add</i>	68.43	
			<i>For Seal Class A, Add</i>	182.47	
			<i>For 24 Gauge, Add</i>	17.25	
			<i>For 22 Gauge, Add</i>	39.68	
			<i>For 20 Gauge, Add</i>	64.69	
			<i>For 18 Gauge, Add</i>	99.19	
			<i>For 16 Gauge, Add</i>	120.75	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	63.83	
			<i>For Work In Restricted Working Space, Add</i>	136.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0097 EA 22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow .....	631.53	132.93
For Seal Class B, Add	80.05	
For Seal Class A, Add	213.46	
For 24 Gauge, Add	19.58	
For 22 Gauge, Add	45.03	
For 20 Gauge, Add	73.42	
For 18 Gauge, Add	112.57	
For 16 Gauge, Add	137.05	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	72.44	
For Work In Restricted Working Space, Add	160.09	
23 31 13 16-0098 EA 24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow .....	722.58	151.31
For Seal Class B, Add	90.27	
For Seal Class A, Add	240.71	
For 24 Gauge, Add	24.16	
For 22 Gauge, Add	55.57	
For 20 Gauge, Add	90.61	
For 18 Gauge, Add	138.93	
For 16 Gauge, Add	169.13	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	89.40	
For Work In Restricted Working Space, Add	180.53	
<b>23 31 13 16-0099 Slip Joint, Galvanized, Spiral Duct 45 Degree Elbows</b> <small>(23 31 13 16-0074)</small>		
23 31 13 16-0100 EA 4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow .....	90.08	19.80
For Seal Class B, Add	11.47	
For Seal Class A, Add	30.58	
For 24 Gauge, Add	2.73	
For 22 Gauge, Add	6.27	
For 20 Gauge, Add	10.22	
For 18 Gauge, Add	15.67	
For 16 Gauge, Add	19.08	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.09	
For Work In Restricted Working Space, Add	22.94	
23 31 13 16-0101 EA 6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow .....	128.45	28.28
For Seal Class B, Add	16.97	
For Seal Class A, Add	45.25	
For 24 Gauge, Add	3.06	
For 22 Gauge, Add	7.05	
For 20 Gauge, Add	11.49	
For 18 Gauge, Add	17.62	
For 16 Gauge, Add	21.45	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.34	
For Work In Restricted Working Space, Add	33.94	
23 31 13 16-0102 EA 8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow .....	169.40	36.77
For Seal Class B, Add	22.33	
For Seal Class A, Add	59.54	
For 24 Gauge, Add	4.11	
For 22 Gauge, Add	9.45	
For 20 Gauge, Add	15.41	
For 18 Gauge, Add	23.62	
For 16 Gauge, Add	28.76	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.20	
For Work In Restricted Working Space, Add	44.66	
23 31 13 16-0103 EA 10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow .....	214.22	46.67
For Seal Class B, Add	28.28	
For Seal Class A, Add	75.42	
For 24 Gauge, Add	5.13	
For 22 Gauge, Add	11.81	
For 20 Gauge, Add	19.25	
For 18 Gauge, Add	29.52	
For 16 Gauge, Add	35.94	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.00	
For Work In Restricted Working Space, Add	56.57	
23 31 13 16-0104 EA 12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow .....	265.52	59.40
For Seal Class B, Add	35.35	
For Seal Class A, Add	94.28	
For 24 Gauge, Add	5.97	
For 22 Gauge, Add	13.72	
For 20 Gauge, Add	22.37	
For 18 Gauge, Add	34.30	
For 16 Gauge, Add	41.76	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	22.07	
For Work In Restricted Working Space, Add	70.71	
23 31 13 16-0105 EA 14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow .....	290.27	65.05
For Seal Class B, Add	38.57	
For Seal Class A, Add	102.84	
For 24 Gauge, Add	6.63	
For 22 Gauge, Add	15.25	
For 20 Gauge, Add	24.87	
For 18 Gauge, Add	38.13	
For 16 Gauge, Add	46.42	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.54	
For Work In Restricted Working Space, Add	77.13	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0106	EA		16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	358.49	76.36
			<i>For Seal Class B, Add</i>	45.62	
			<i>For Seal Class A, Add</i>	121.65	
			<i>For 24 Gauge, Add</i>	10.87	
			<i>For 22 Gauge, Add</i>	25.01	
			<i>For 20 Gauge, Add</i>	40.78	
			<i>For 18 Gauge, Add</i>	62.53	
			<i>For 16 Gauge, Add</i>	76.12	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	40.23	
			<i>For Work In Restricted Working Space, Add</i>	91.24	
23 31 13 16-0107	EA		18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	443.71	94.75
			<i>For Seal Class B, Add</i>	56.57	
			<i>For Seal Class A, Add</i>	150.84	
			<i>For 24 Gauge, Add</i>	13.32	
			<i>For 22 Gauge, Add</i>	30.64	
			<i>For 20 Gauge, Add</i>	49.95	
			<i>For 18 Gauge, Add</i>	76.59	
			<i>For 16 Gauge, Add</i>	93.24	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	49.28	
			<i>For Work In Restricted Working Space, Add</i>	113.13	
23 31 13 16-0108	EA		20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	540.45	114.54
			<i>For Seal Class B, Add</i>	68.43	
			<i>For Seal Class A, Add</i>	182.47	
			<i>For 24 Gauge, Add</i>	16.85	
			<i>For 22 Gauge, Add</i>	38.76	
			<i>For 20 Gauge, Add</i>	63.20	
			<i>For 18 Gauge, Add</i>	96.91	
			<i>For 16 Gauge, Add</i>	117.98	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	62.36	
			<i>For Work In Restricted Working Space, Add</i>	136.85	
23 31 13 16-0109	EA		22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	609.08	132.93
			<i>For Seal Class B, Add</i>	80.05	
			<i>For Seal Class A, Add</i>	213.46	
			<i>For 24 Gauge, Add</i>	15.09	
			<i>For 22 Gauge, Add</i>	34.70	
			<i>For 20 Gauge, Add</i>	56.58	
			<i>For 18 Gauge, Add</i>	86.76	
			<i>For 16 Gauge, Add</i>	105.62	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	55.83	
			<i>For Work In Restricted Working Space, Add</i>	160.09	
23 31 13 16-0110	EA		24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow.....	714.58	151.31
			<i>For Seal Class B, Add</i>	90.27	
			<i>For Seal Class A, Add</i>	240.71	
			<i>For 24 Gauge, Add</i>	22.56	
			<i>For 22 Gauge, Add</i>	51.89	
			<i>For 20 Gauge, Add</i>	84.61	
			<i>For 18 Gauge, Add</i>	129.73	
			<i>For 16 Gauge, Add</i>	157.93	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	83.48	
			<i>For Work In Restricted Working Space, Add</i>	180.53	
<b>23 31 13 16-0111</b>			<b>Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Laterals (23 31 13 16-0074)</b>		
23 31 13 16-0112	EA		6" x 6" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	178.16	36.77
			<i>For Seal Class B, Add</i>	22.33	
			<i>For Seal Class A, Add</i>	59.54	
			<i>For 24 Gauge, Add</i>	5.86	
			<i>For 22 Gauge, Add</i>	13.48	
			<i>For 20 Gauge, Add</i>	21.98	
			<i>For 18 Gauge, Add</i>	33.70	
			<i>For 16 Gauge, Add</i>	41.02	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	21.68	
			<i>For Work In Restricted Working Space, Add</i>	44.66	
23 31 13 16-0113	EA		8" x 8" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	266.41	59.40
			<i>For Seal Class B, Add</i>	35.35	
			<i>For Seal Class A, Add</i>	94.28	
			<i>For 24 Gauge, Add</i>	6.14	
			<i>For 22 Gauge, Add</i>	14.13	
			<i>For 20 Gauge, Add</i>	23.04	
			<i>For 18 Gauge, Add</i>	35.33	
			<i>For 16 Gauge, Add</i>	43.01	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	22.73	
			<i>For Work In Restricted Working Space, Add</i>	70.71	
23 31 13 16-0114	EA		10" x 10" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	337.85	76.36
			<i>For Seal Class B, Add</i>	45.62	
			<i>For Seal Class A, Add</i>	121.65	
			<i>For 24 Gauge, Add</i>	6.75	
			<i>For 22 Gauge, Add</i>	15.52	
			<i>For 20 Gauge, Add</i>	25.30	
			<i>For 18 Gauge, Add</i>	38.79	
			<i>For 16 Gauge, Add</i>	47.22	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	24.96	
			<i>For Work In Restricted Working Space, Add</i>	91.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0115 EA 12" x 12" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	412.34	94.75
For Seal Class B, Add	56.57	
For Seal Class A, Add	150.84	
For 24 Gauge, Add	7.05	
For 22 Gauge, Add	16.21	
For 20 Gauge, Add	26.42	
For 18 Gauge, Add	40.51	
For 16 Gauge, Add	49.32	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	26.07	
For Work In Restricted Working Space, Add	113.13	
23 31 13 16-0116 EA 14" x 14" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	492.57	114.54
For Seal Class B, Add	68.43	
For Seal Class A, Add	182.47	
For 24 Gauge, Add	7.28	
For 22 Gauge, Add	16.74	
For 20 Gauge, Add	27.29	
For 18 Gauge, Add	41.85	
For 16 Gauge, Add	50.95	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	26.93	
For Work In Restricted Working Space, Add	136.85	
23 31 13 16-0117 EA 16" x 16" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	573.21	132.93
For Seal Class B, Add	80.05	
For Seal Class A, Add	213.46	
For 24 Gauge, Add	7.91	
For 22 Gauge, Add	18.20	
For 20 Gauge, Add	29.68	
For 18 Gauge, Add	45.51	
For 16 Gauge, Add	55.40	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	29.28	
For Work In Restricted Working Space, Add	160.09	
23 31 13 16-0118 EA 18" x 18" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	642.94	151.31
For Seal Class B, Add	90.27	
For Seal Class A, Add	240.71	
For 24 Gauge, Add	8.23	
For 22 Gauge, Add	18.94	
For 20 Gauge, Add	30.88	
For 18 Gauge, Add	47.35	
For 16 Gauge, Add	57.64	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	30.47	
For Work In Restricted Working Space, Add	180.53	
23 31 13 16-0119 EA 20" x 20" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	732.50	172.52
For Seal Class B, Add	103.47	
For Seal Class A, Add	275.93	
For 24 Gauge, Add	8.53	
For 22 Gauge, Add	19.63	
For 20 Gauge, Add	32.00	
For 18 Gauge, Add	49.07	
For 16 Gauge, Add	59.74	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	31.58	
For Work In Restricted Working Space, Add	206.95	
23 31 13 16-0120 EA 22" x 22" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	815.75	190.91
For Seal Class B, Add	114.66	
For Seal Class A, Add	305.76	
For 24 Gauge, Add	10.27	
For 22 Gauge, Add	23.62	
For 20 Gauge, Add	38.51	
For 18 Gauge, Add	59.05	
For 16 Gauge, Add	71.89	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	38.00	
For Work In Restricted Working Space, Add	229.32	
23 31 13 16-0121 EA 24" x 24" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	884.89	207.88
For Seal Class B, Add	124.78	
For Seal Class A, Add	332.74	
For 24 Gauge, Add	10.61	
For 22 Gauge, Add	24.39	
For 20 Gauge, Add	39.77	
For 18 Gauge, Add	60.98	
For 16 Gauge, Add	74.24	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	39.24	
For Work In Restricted Working Space, Add	249.56	
23 31 13 16-0122 EA 8" x 8" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	282.18	64.06
For Seal Class B, Add	38.46	
For Seal Class A, Add	102.55	
For 24 Gauge, Add	5.16	
For 22 Gauge, Add	11.87	
For 20 Gauge, Add	19.36	
For 18 Gauge, Add	29.68	
For 16 Gauge, Add	36.13	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.10	
For Work In Restricted Working Space, Add	76.91	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0123	EA		10" x 10" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	340.81	77.07
			<i>For Seal Class B, Add</i>	46.23	
			<i>For Seal Class A, Add</i>	123.29	
			<i>For 24 Gauge, Add</i>	6.52	
			<i>For 22 Gauge, Add</i>	14.99	
			<i>For 20 Gauge, Add</i>	24.44	
			<i>For 18 Gauge, Add</i>	37.48	
			<i>For 16 Gauge, Add</i>	45.63	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	24.12	
			<i>For Work In Restricted Working Space, Add</i>	92.47	
23 31 13 16-0124	EA		12" x 12" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	414.07	93.61
			<i>For Seal Class B, Add</i>	56.18	
			<i>For Seal Class A, Add</i>	149.80	
			<i>For 24 Gauge, Add</i>	7.91	
			<i>For 22 Gauge, Add</i>	18.20	
			<i>For 20 Gauge, Add</i>	29.67	
			<i>For 18 Gauge, Add</i>	45.49	
			<i>For 16 Gauge, Add</i>	55.38	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	29.27	
			<i>For Work In Restricted Working Space, Add</i>	112.35	
23 31 13 16-0125	EA		14" x 14" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	492.92	111.29
			<i>For Seal Class B, Add</i>	66.87	
			<i>For Seal Class A, Add</i>	178.33	
			<i>For 24 Gauge, Add</i>	9.42	
			<i>For 22 Gauge, Add</i>	21.67	
			<i>For 20 Gauge, Add</i>	35.33	
			<i>For 18 Gauge, Add</i>	54.17	
			<i>For 16 Gauge, Add</i>	65.94	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	34.85	
			<i>For Work In Restricted Working Space, Add</i>	133.75	
23 31 13 16-0126	EA		16" x 16" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	626.67	143.11
			<i>For Seal Class B, Add</i>	85.81	
			<i>For Seal Class A, Add</i>	228.83	
			<i>For 24 Gauge, Add</i>	10.92	
			<i>For 22 Gauge, Add</i>	25.12	
			<i>For 20 Gauge, Add</i>	40.95	
			<i>For 18 Gauge, Add</i>	62.79	
			<i>For 16 Gauge, Add</i>	76.44	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	40.40	
			<i>For Work In Restricted Working Space, Add</i>	171.62	
23 31 13 16-0127	EA		18" x 18" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	695.89	158.80
			<i>For Seal Class B, Add</i>	95.21	
			<i>For Seal Class A, Add</i>	253.88	
			<i>For 24 Gauge, Add</i>	12.24	
			<i>For 22 Gauge, Add</i>	28.14	
			<i>For 20 Gauge, Add</i>	45.89	
			<i>For 18 Gauge, Add</i>	70.36	
			<i>For 16 Gauge, Add</i>	85.65	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	45.27	
			<i>For Work In Restricted Working Space, Add</i>	190.41	
23 31 13 16-0128	EA		20" x 20" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	791.15	180.73
			<i>For Seal Class B, Add</i>	108.23	
			<i>For Seal Class A, Add</i>	288.60	
			<i>For 24 Gauge, Add</i>	13.93	
			<i>For 22 Gauge, Add</i>	32.03	
			<i>For 20 Gauge, Add</i>	52.23	
			<i>For 18 Gauge, Add</i>	80.09	
			<i>For 16 Gauge, Add</i>	97.50	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	51.53	
			<i>For Work In Restricted Working Space, Add</i>	216.45	
23 31 13 16-0129	EA		22" x 22" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	847.85	192.75
			<i>For Seal Class B, Add</i>	115.53	
			<i>For Seal Class A, Add</i>	308.09	
			<i>For 24 Gauge, Add</i>	15.52	
			<i>For 22 Gauge, Add</i>	35.71	
			<i>For 20 Gauge, Add</i>	58.22	
			<i>For 18 Gauge, Add</i>	89.26	
			<i>For 16 Gauge, Add</i>	108.67	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	57.44	
			<i>For Work In Restricted Working Space, Add</i>	231.07	
23 31 13 16-0130	EA		24" x 24" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	919.90	209.01
			<i>For Seal Class B, Add</i>	125.37	
			<i>For Seal Class A, Add</i>	334.32	
			<i>For 24 Gauge, Add</i>	16.82	
			<i>For 22 Gauge, Add</i>	38.69	
			<i>For 20 Gauge, Add</i>	63.08	
			<i>For 18 Gauge, Add</i>	96.73	
			<i>For 16 Gauge, Add</i>	117.75	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	62.24	
			<i>For Work In Restricted Working Space, Add</i>	250.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0131 EA 10" x 10" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	373.28	84.85
For Seal Class B, Add	50.84	
For Seal Class A, Add	135.58	
For 24 Gauge, Add	6.86	
For 22 Gauge, Add	15.79	
For 20 Gauge, Add	25.74	
For 18 Gauge, Add	39.47	
For 16 Gauge, Add	48.05	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	25.40	
For Work In Restricted Working Space, Add	101.69	
23 31 13 16-0132 EA 12" x 12" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	453.67	103.24
For Seal Class B, Add	61.81	
For Seal Class A, Add	164.82	
For 24 Gauge, Add	8.32	
For 22 Gauge, Add	19.15	
For 20 Gauge, Add	31.22	
For 18 Gauge, Add	47.86	
For 16 Gauge, Add	58.27	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	30.80	
For Work In Restricted Working Space, Add	123.62	
23 31 13 16-0133 EA 14" x 14" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	539.94	122.33
For Seal Class B, Add	73.55	
For Seal Class A, Add	196.14	
For 24 Gauge, Add	9.92	
For 22 Gauge, Add	22.82	
For 20 Gauge, Add	37.20	
For 18 Gauge, Add	57.04	
For 16 Gauge, Add	69.44	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	36.70	
For Work In Restricted Working Space, Add	147.10	
23 31 13 16-0134 EA 16" x 16" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	626.78	142.54
For Seal Class B, Add	85.40	
For Seal Class A, Add	227.72	
For 24 Gauge, Add	11.50	
For 22 Gauge, Add	26.44	
For 20 Gauge, Add	43.11	
For 18 Gauge, Add	66.10	
For 16 Gauge, Add	80.47	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	42.54	
For Work In Restricted Working Space, Add	170.79	
23 31 13 16-0135 EA 18" x 18" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	701.42	159.38
For Seal Class B, Add	95.55	
For Seal Class A, Add	254.80	
For 24 Gauge, Add	12.88	
For 22 Gauge, Add	29.63	
For 20 Gauge, Add	48.31	
For 18 Gauge, Add	74.07	
For 16 Gauge, Add	90.17	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	47.66	
For Work In Restricted Working Space, Add	191.10	
23 31 13 16-0136 EA 20" x 20" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	797.76	181.29
For Seal Class B, Add	108.67	
For Seal Class A, Add	289.78	
For 24 Gauge, Add	14.66	
For 22 Gauge, Add	33.72	
For 20 Gauge, Add	54.98	
For 18 Gauge, Add	84.30	
For 16 Gauge, Add	102.62	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	54.24	
For Work In Restricted Working Space, Add	217.34	
23 31 13 16-0137 EA 22" x 22" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	890.72	202.22
For Seal Class B, Add	121.35	
For Seal Class A, Add	323.60	
For 24 Gauge, Add	16.34	
For 22 Gauge, Add	37.59	
For 20 Gauge, Add	61.28	
For 18 Gauge, Add	93.97	
For 16 Gauge, Add	114.39	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	60.47	
For Work In Restricted Working Space, Add	242.70	
23 31 13 16-0138 EA 24" x 24" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	965.79	219.48
For Seal Class B, Add	131.59	
For Seal Class A, Add	350.90	
For 24 Gauge, Add	17.71	
For 22 Gauge, Add	40.72	
For 20 Gauge, Add	66.40	
For 18 Gauge, Add	101.81	
For 16 Gauge, Add	123.94	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	65.51	
For Work In Restricted Working Space, Add	263.18	

23 31 13 16-0139 Slip Joint, Galvanized, Spiral Duct Reducers (23 31 13 16-0074)

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0140 EA 6" x 4", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	123.66	28.28
For Seal Class B, Add	16.97	
For Seal Class A, Add	45.25	
For 24 Gauge, Add	2.11	
For 22 Gauge, Add	4.84	
For 20 Gauge, Add	7.90	
For 18 Gauge, Add	12.11	
For 16 Gauge, Add	14.74	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.79	
For Work In Restricted Working Space, Add	33.94	
23 31 13 16-0141 EA 8" x 6", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	160.46	36.77
For Seal Class B, Add	22.33	
For Seal Class A, Add	59.54	
For 24 Gauge, Add	2.32	
For 22 Gauge, Add	5.34	
For 20 Gauge, Add	8.70	
For 18 Gauge, Add	13.34	
For 16 Gauge, Add	16.24	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.58	
For Work In Restricted Working Space, Add	44.66	
23 31 13 16-0142 EA 10" x 8", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	201.39	46.67
For Seal Class B, Add	28.28	
For Seal Class A, Add	75.42	
For 24 Gauge, Add	2.57	
For 22 Gauge, Add	5.91	
For 20 Gauge, Add	9.63	
For 18 Gauge, Add	14.77	
For 16 Gauge, Add	17.98	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	9.50	
For Work In Restricted Working Space, Add	56.57	
23 31 13 16-0143 EA 12" x 10", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	249.77	59.40
For Seal Class B, Add	35.35	
For Seal Class A, Add	94.28	
For 24 Gauge, Add	2.82	
For 22 Gauge, Add	6.48	
For 20 Gauge, Add	10.56	
For 18 Gauge, Add	16.19	
For 16 Gauge, Add	19.71	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.42	
For Work In Restricted Working Space, Add	70.71	
23 31 13 16-0144 EA 14" x 12", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	272.78	65.05
For Seal Class B, Add	38.57	
For Seal Class A, Add	102.84	
For 24 Gauge, Add	3.13	
For 22 Gauge, Add	7.21	
For 20 Gauge, Add	11.75	
For 18 Gauge, Add	18.02	
For 16 Gauge, Add	21.94	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.60	
For Work In Restricted Working Space, Add	77.13	
23 31 13 16-0145 EA 16" x 14", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	331.21	76.36
For Seal Class B, Add	45.62	
For Seal Class A, Add	121.65	
For 24 Gauge, Add	5.42	
For 22 Gauge, Add	12.46	
For 20 Gauge, Add	20.32	
For 18 Gauge, Add	31.15	
For 16 Gauge, Add	37.93	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.05	
For Work In Restricted Working Space, Add	91.24	
23 31 13 16-0146 EA 18" x 16", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	406.06	94.75
For Seal Class B, Add	56.57	
For Seal Class A, Add	150.84	
For 24 Gauge, Add	5.79	
For 22 Gauge, Add	13.32	
For 20 Gauge, Add	21.71	
For 18 Gauge, Add	33.29	
For 16 Gauge, Add	40.53	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	21.42	
For Work In Restricted Working Space, Add	113.13	
23 31 13 16-0147 EA 20" x 18", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	487.08	114.54
For Seal Class B, Add	68.43	
For Seal Class A, Add	182.47	
For 24 Gauge, Add	6.18	
For 22 Gauge, Add	14.21	
For 20 Gauge, Add	23.18	
For 18 Gauge, Add	35.54	
For 16 Gauge, Add	43.26	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	22.87	
For Work In Restricted Working Space, Add	136.85	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0148 EA 22" x 20", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	566.48	132.93
For Seal Class B, Add	80.05	
For Seal Class A, Add	213.46	
For 24 Gauge, Add	6.57	
For 22 Gauge, Add	15.11	
For 20 Gauge, Add	24.63	
For 18 Gauge, Add	37.77	
For 16 Gauge, Add	45.98	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.30	
For Work In Restricted Working Space, Add	160.09	
23 31 13 16-0149 EA 24" x 22", 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Reducer.....	636.38	151.31
For Seal Class B, Add	90.27	
For Seal Class A, Add	240.71	
For 24 Gauge, Add	6.92	
For 22 Gauge, Add	15.92	
For 20 Gauge, Add	25.96	
For 18 Gauge, Add	39.80	
For 16 Gauge, Add	48.45	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	25.61	
For Work In Restricted Working Space, Add	180.53	
<b>23 31 13 16-0150 Slip Joint, Galvanized, Spiral Duct Couplings</b> <small>(23 31 13 16-0074)</small>		
23 31 13 16-0151 EA 4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	81.43	19.80
For Seal Class B, Add	11.47	
For Seal Class A, Add	30.58	
For 24 Gauge, Add	1.00	
For 22 Gauge, Add	2.29	
For 20 Gauge, Add	3.74	
For 18 Gauge, Add	5.73	
For 16 Gauge, Add	6.97	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.69	
For Work In Restricted Working Space, Add	22.94	
23 31 13 16-0152 EA 6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	118.80	28.28
For Seal Class B, Add	16.97	
For Seal Class A, Add	45.25	
For 24 Gauge, Add	1.13	
For 22 Gauge, Add	2.61	
For 20 Gauge, Add	4.25	
For 18 Gauge, Add	6.52	
For 16 Gauge, Add	7.94	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.20	
For Work In Restricted Working Space, Add	33.94	
23 31 13 16-0153 EA 8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	154.97	36.77
For Seal Class B, Add	22.33	
For Seal Class A, Add	59.54	
For 24 Gauge, Add	1.22	
For 22 Gauge, Add	2.81	
For 20 Gauge, Add	4.58	
For 18 Gauge, Add	7.03	
For 16 Gauge, Add	8.55	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.52	
For Work In Restricted Working Space, Add	44.66	
23 31 13 16-0154 EA 10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	195.10	46.67
For Seal Class B, Add	28.28	
For Seal Class A, Add	75.42	
For 24 Gauge, Add	1.31	
For 22 Gauge, Add	3.01	
For 20 Gauge, Add	4.91	
For 18 Gauge, Add	7.53	
For 16 Gauge, Add	9.17	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.85	
For Work In Restricted Working Space, Add	56.57	
23 31 13 16-0155 EA 12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	242.68	59.40
For Seal Class B, Add	35.35	
For Seal Class A, Add	94.28	
For 24 Gauge, Add	1.40	
For 22 Gauge, Add	3.22	
For 20 Gauge, Add	5.24	
For 18 Gauge, Add	8.04	
For 16 Gauge, Add	9.79	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.17	
For Work In Restricted Working Space, Add	70.71	
23 31 13 16-0156 EA 14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	264.55	65.05
For Seal Class B, Add	38.57	
For Seal Class A, Add	102.84	
For 24 Gauge, Add	1.49	
For 22 Gauge, Add	3.42	
For 20 Gauge, Add	5.58	
For 18 Gauge, Add	8.56	
For 16 Gauge, Add	10.42	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.51	
For Work In Restricted Working Space, Add	77.13	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 31 HVAC Ducts and Casings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0157	EA		16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	312.35	76.36
			<i>For Seal Class B, Add</i>	45.62	
			<i>For Seal Class A, Add</i>	121.65	
			<i>For 24 Gauge, Add</i>	1.65	
			<i>For 22 Gauge, Add</i>	3.79	
			<i>For 20 Gauge, Add</i>	6.17	
			<i>For 18 Gauge, Add</i>	9.46	
			<i>For 16 Gauge, Add</i>	11.52	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.09	
			<i>For Work In Restricted Working Space, Add</i>	91.24	
23 31 13 16-0158	EA		18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	385.79	94.75
			<i>For Seal Class B, Add</i>	56.57	
			<i>For Seal Class A, Add</i>	150.84	
			<i>For 24 Gauge, Add</i>	1.74	
			<i>For 22 Gauge, Add</i>	3.99	
			<i>For 20 Gauge, Add</i>	6.51	
			<i>For 18 Gauge, Add</i>	9.98	
			<i>For 16 Gauge, Add</i>	12.15	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.42	
			<i>For Work In Restricted Working Space, Add</i>	113.13	
23 31 13 16-0159	EA		20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	465.39	114.54
			<i>For Seal Class B, Add</i>	68.43	
			<i>For Seal Class A, Add</i>	182.47	
			<i>For 24 Gauge, Add</i>	1.84	
			<i>For 22 Gauge, Add</i>	4.24	
			<i>For 20 Gauge, Add</i>	6.91	
			<i>For 18 Gauge, Add</i>	10.59	
			<i>For 16 Gauge, Add</i>	12.89	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.82	
			<i>For Work In Restricted Working Space, Add</i>	136.85	
23 31 13 16-0160	EA		22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	543.20	267.27
			<i>For Seal Class B, Add</i>	80.05	
			<i>For Seal Class A, Add</i>	213.46	
			<i>For 24 Gauge, Add</i>	1.91	
			<i>For 22 Gauge, Add</i>	4.40	
			<i>For 20 Gauge, Add</i>	7.17	
			<i>For 18 Gauge, Add</i>	10.99	
			<i>For 16 Gauge, Add</i>	13.38	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	7.07	
			<i>For Work In Restricted Working Space, Add</i>	160.09	
23 31 13 16-0161	EA		24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Coupling.....	611.86	301.21
			<i>For Seal Class B, Add</i>	90.27	
			<i>For Seal Class A, Add</i>	240.71	
			<i>For 24 Gauge, Add</i>	2.02	
			<i>For 22 Gauge, Add</i>	4.64	
			<i>For 20 Gauge, Add</i>	7.57	
			<i>For 18 Gauge, Add</i>	11.60	
			<i>For 16 Gauge, Add</i>	14.13	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	7.47	
			<i>For Work In Restricted Working Space, Add</i>	180.53	
<b>23 31 13 16-0162</b>			<b>Slip Joint, Galvanized, Spiral Duct Caps (23 31 13 16-0074)</b>		
23 31 13 16-0163	EA		4" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap.....	44.06	19.80
			<i>For Seal Class B, Add</i>	5.73	
			<i>For Seal Class A, Add</i>	15.29	
			<i>For 24 Gauge, Add</i>	1.17	
			<i>For 22 Gauge, Add</i>	2.69	
			<i>For 20 Gauge, Add</i>	4.38	
			<i>For 18 Gauge, Add</i>	6.72	
			<i>For 16 Gauge, Add</i>	8.18	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.32	
			<i>For Work In Restricted Working Space, Add</i>	11.47	
23 31 13 16-0164	EA		6" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap.....	63.11	28.28
			<i>For Seal Class B, Add</i>	8.48	
			<i>For Seal Class A, Add</i>	22.62	
			<i>For 24 Gauge, Add</i>	1.31	
			<i>For 22 Gauge, Add</i>	3.01	
			<i>For 20 Gauge, Add</i>	4.91	
			<i>For 18 Gauge, Add</i>	7.53	
			<i>For 16 Gauge, Add</i>	9.17	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.85	
			<i>For Work In Restricted Working Space, Add</i>	16.97	
23 31 13 16-0165	EA		8" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap.....	81.60	38.18
			<i>For Seal Class B, Add</i>	11.16	
			<i>For Seal Class A, Add</i>	29.77	
			<i>For 24 Gauge, Add</i>	1.43	
			<i>For 22 Gauge, Add</i>	3.30	
			<i>For 20 Gauge, Add</i>	5.38	
			<i>For 18 Gauge, Add</i>	8.25	
			<i>For 16 Gauge, Add</i>	10.04	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	5.31	
			<i>For Work In Restricted Working Space, Add</i>	22.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0166 EA 10" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....	102.25	48.08
For Seal Class B, Add	14.14	
For Seal Class A, Add	37.71	
For 24 Gauge, Add	1.59	
For 22 Gauge, Add	3.67	
For 20 Gauge, Add	5.98	
For 18 Gauge, Add	9.17	
For 16 Gauge, Add	11.16	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.90	
For Work In Restricted Working Space, Add	28.28	
23 31 13 16-0167 EA 12" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....	126.69	59.40
For Seal Class B, Add	17.68	
For Seal Class A, Add	47.14	
For 24 Gauge, Add	1.77	
For 22 Gauge, Add	4.07	
For 20 Gauge, Add	6.64	
For 18 Gauge, Add	10.18	
For 16 Gauge, Add	12.39	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.55	
For Work In Restricted Working Space, Add	35.35	
23 31 13 16-0168 EA 14" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....	138.30	65.05
For Seal Class B, Add	19.28	
For Seal Class A, Add	51.42	
For 24 Gauge, Add	1.95	
For 22 Gauge, Add	4.48	
For 20 Gauge, Add	7.31	
For 18 Gauge, Add	11.20	
For 16 Gauge, Add	13.64	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.21	
For Work In Restricted Working Space, Add	38.57	
23 31 13 16-0169 EA 16" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....	160.10	74.95
For Seal Class B, Add	22.33	
For Seal Class A, Add	59.54	
For 24 Gauge, Add	2.25	
For 22 Gauge, Add	5.17	
For 20 Gauge, Add	8.43	
For 18 Gauge, Add	12.93	
For 16 Gauge, Add	15.74	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.32	
For Work In Restricted Working Space, Add	44.66	
23 31 13 16-0170 EA 18" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....	226.44	94.75
For Seal Class B, Add	28.28	
For Seal Class A, Add	75.42	
For 24 Gauge, Add	7.58	
For 22 Gauge, Add	17.43	
For 20 Gauge, Add	28.42	
For 18 Gauge, Add	43.57	
For 16 Gauge, Add	53.05	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	28.04	
For Work In Restricted Working Space, Add	56.57	
23 31 13 16-0171 EA 20" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....	276.77	117.38
For Seal Class B, Add	35.35	
For Seal Class A, Add	94.28	
For 24 Gauge, Add	8.22	
For 22 Gauge, Add	18.90	
For 20 Gauge, Add	30.81	
For 18 Gauge, Add	47.24	
For 16 Gauge, Add	57.51	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	30.40	
For Work In Restricted Working Space, Add	70.71	
23 31 13 16-0172 EA 22" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....	301.37	128.68
For Seal Class B, Add	38.57	
For Seal Class A, Add	102.84	
For 24 Gauge, Add	8.85	
For 22 Gauge, Add	20.36	
For 20 Gauge, Add	33.20	
For 18 Gauge, Add	50.90	
For 16 Gauge, Add	61.96	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	32.75	
For Work In Restricted Working Space, Add	77.13	
23 31 13 16-0173 EA 24" Diameter, 26 Gauge, Seal Class C, Slip Joint, Galvanized, Spiral Duct Cap .....	348.42	149.90
For Seal Class B, Add	45.13	
For Seal Class A, Add	120.35	
For 24 Gauge, Add	9.51	
For 22 Gauge, Add	21.87	
For 20 Gauge, Add	35.66	
For 18 Gauge, Add	54.67	
For 16 Gauge, Add	66.56	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	35.18	
For Work In Restricted Working Space, Add	90.26	

**23 31 13 19 Metal Duct Fittings** (23 31 13)  
 23 31 13 19-0001 Sheet Metal Baffles (23 31 13 19)

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 19-0002 LF Sheet Metal Baffles Under Raised Floor.....	49.71	40.07
For Work In Restricted Working Space, Add	14.65	
For Elevated Installation >10' To 15', Add	4.88	
For Elevated Installation >15' To 20', Add	9.77	
For Elevated Installation >20' To 25', Add	12.21	
For Elevated Installation >25' To 30', Add	17.09	
For Elevated Installation >30' To 35', Add	19.53	
For Elevated Installation >35' To 40', Add	24.42	
For Elevated Installation >40', Add	26.86	
<b>23 31 13 19-0003 Duct Register Boots (23 31 13 19)</b>		
23 31 13 19-0004 EA 10" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	46.79	19.17
For Stainless Steel, Add	10.97	
23 31 13 19-0005 EA 10" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	46.79	19.17
For Stainless Steel, Add	10.97	
23 31 13 19-0006 EA 12" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	50.03	20.71
For Stainless Steel, Add	11.21	
23 31 13 19-0007 EA 12" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	50.03	20.71
For Stainless Steel, Add	11.21	
23 31 13 19-0008 EA 12" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	52.11	20.71
For Stainless Steel, Add	13.91	
23 31 13 19-0009 EA 14" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	54.15	22.24
For Stainless Steel, Add	12.56	
23 31 13 19-0010 EA 14" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	54.15	22.24
For Stainless Steel, Add	12.56	
23 31 13 19-0011 EA 14" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	55.44	22.24
For Stainless Steel, Add	14.24	
23 31 13 19-0012 EA 10" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	55.15	23.78
For Stainless Steel, Add	9.87	
23 31 13 19-0013 EA 12" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	58.44	25.31
For Stainless Steel, Add	10.17	
23 31 13 19-0014 EA 12" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	63.74	25.31
For Stainless Steel, Add	17.06	
23 31 13 19-0015 EA 14" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	61.98	26.85
For Stainless Steel, Add	10.78	
23 31 13 19-0016 EA 14" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	67.17	26.85
For Stainless Steel, Add	17.52	
23 31 13 19-0017 EA 12" x 2-1/4" x 5" Register Boot, Center, Galvanized Steel.....	48.78	20.71
For Stainless Steel, Add	9.58	
23 31 13 19-0018 EA 12" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel.....	48.78	20.71
For Stainless Steel, Add	9.58	
23 31 13 19-0019 EA 14" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel.....	52.70	22.24
For Stainless Steel, Add	10.67	
23 31 13 19-0020 EA 14" x 2-1/4" x 7" Register Boot, Center, Galvanized Steel.....	53.94	22.24
For Stainless Steel, Add	12.29	
23 31 13 19-0021 EA 10" x 4" x 6" Register Boot, Center, Galvanized Steel.....	55.32	23.78
For Stainless Steel, Add	10.09	
23 31 13 19-0022 EA 12" x 4" x 6" Register Boot, Center, Galvanized Steel.....	58.59	25.31
For Stainless Steel, Add	10.36	
23 31 13 19-0023 EA 12" x 2-1/4" x 6" Register Boot, End, Galvanized Steel.....	49.62	20.71
For Stainless Steel, Add	10.67	
23 31 13 19-0024 EA 14" x 2-1/4" x 6" Register Boot, End, Galvanized Steel.....	53.21	22.24
For Stainless Steel, Add	11.34	
23 31 13 19-0025 EA 10" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	46.79	19.17
For Stainless Steel, Add	10.97	
23 31 13 19-0026 EA 12" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	50.03	20.71
For Stainless Steel, Add	11.21	
23 31 13 19-0027 EA 14" x 2-1/4" x 5" Register Boot, Universal, Galvanized Steel.....	54.15	22.24
For Stainless Steel, Add	12.56	
23 31 13 19-0028 EA 14" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	54.15	22.24
For Stainless Steel, Add	12.56	
23 31 13 19-0029 EA 10" x 4" x 6" Register Boot, Universal, Galvanized Steel.....	55.15	23.78
For Stainless Steel, Add	9.87	
23 31 13 19-0030 EA 12" x 4" x 6" Register Boot, Universal, Galvanized Steel.....	58.44	25.31
For Stainless Steel, Add	10.17	
23 31 13 19-0031 EA 12" x 4" x 7" Register Boot, Universal, Galvanized Steel.....	63.74	25.31
For Stainless Steel, Add	17.06	
23 31 13 19-0032 EA 14" x 4" x 7" Register Boot, Universal, Galvanized Steel.....	66.81	26.85
For Stainless Steel, Add	17.06	
<b>23 31 13 23 Galvanized Steel Welded Duct (23 31 13)</b>		
Note: All field fabricated duct is assembled from flat duct sheets on site to fit to exact field conditions. Ductwork which is fabricated off site or snap-fitting duct is considered as shop fabricated.		
<b>23 31 13 23-0001 Welded Steel Ductwork (23 31 13 23)</b>		
Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc.		
<b>23 31 13 23-0002 Galvanized Steel Welded Duct, For Kitchen (23 31 13 23-0001)</b>		
Note: Also includes special exhaust systems and waste.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 23-0003 LB Galvanized Steel Welded Duct.....	27.93	12.14
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	2.65	
<i>For Work In Restricted Working Space, Add</i>	7.31	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.44	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.87	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.09	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.52	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	12.18	
<i>For Elevated Installation &gt;40', Add</i>	13.39	
<b>23 31 13 23-0004 Black Steel Ductwork</b> (23 31 13 23-0001)		
23 31 13 23-0005 LB Black Steel Ductwork.....	25.84	12.53
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	0.59	
<i>For Work In Restricted Working Space, Add</i>	7.51	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.50	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.01	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.26	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	10.02	
<i>For Elevated Installation &gt;35' To 40', Add</i>	12.52	
<i>For Elevated Installation &gt;40', Add</i>	13.77	
<b>23 31 16 Non-metal Ducts</b> (23 31)		
<b>23 31 16 13 Fibrous-Glass Ducts</b> (23 31 16)		
<b>23 31 16 13-0001 Glass Fiber Duct Board</b> (23 31 16 13)		
Note: Rigid, rectangular boards faced on one side with a fire-resistant foil-scrim-kraft (FSK) vapor retarder and a lightweight fiber glass mat on the airstream surface.		
23 31 16 13-0002 SF 1" Glass Fiber Duct Board (EI-475) .....	12.30	2.51
23 31 16 13-0003 SF 1-1/2" Glass Fiber Duct Board (EI-800) .....	14.44	2.76
23 31 16 13-0004 SF 2" Glass Fiber Duct Board (EI-800) .....	16.68	3.03
<b>23 31 16 16 Thermoset Fiberglass-Reinforced Plastic Ducts</b> (23 31 16)		
<b>23 31 16 16-0001 Fiber Reinforced Round Plastic Duct</b> (23 31 16 16)		
<b>23 31 16 16-0002 Fiber Reinforced Round Plastic Duct</b> (23 31 16 16-0001)		
23 31 16 16-0003 LF 2" Fiber Reinforced Plastic Duct.....	21.17	7.47
23 31 16 16-0004 LF 3" Fiber Reinforced Plastic Duct.....	26.35	8.74
23 31 16 16-0005 LF 4" Fiber Reinforced Plastic Duct.....	36.03	12.83
23 31 16 16-0006 LF 6" Fiber Reinforced Plastic Duct.....	47.51	16.21
23 31 16 16-0007 LF 8" Fiber Reinforced Plastic Duct.....	60.12	20.30
23 31 16 16-0008 LF 10" Fiber Reinforced Plastic Duct.....	72.47	24.39
23 31 16 16-0009 LF 12" Fiber Reinforced Plastic Duct.....	81.88	28.48
23 31 16 16-0010 LF 14" Fiber Reinforced Plastic Duct.....	93.03	31.15
23 31 16 16-0011 LF 16" Fiber Reinforced Plastic Duct.....	100.40	33.13
23 31 16 16-0012 LF 18" Fiber Reinforced Plastic Duct.....	123.62	37.22
23 31 16 16-0013 LF 20" Fiber Reinforced Plastic Duct.....	130.25	39.90
23 31 16 16-0014 LF 24" Fiber Reinforced Plastic Duct.....	158.66	42.58
23 31 16 16-0015 LF 30" Fiber Reinforced Plastic Duct.....	181.89	49.34
23 31 16 16-0016 LF 36" Fiber Reinforced Plastic Duct.....	210.75	59.49
23 31 16 16-0017 LF 42" Fiber Reinforced Plastic Duct.....	277.78	66.26
23 31 16 16-0018 LF 48" Fiber Reinforced Plastic Duct.....	311.23	74.44
23 31 16 16-0019 LF 54" Fiber Reinforced Plastic Duct.....	346.53	85.29
23 31 16 16-0020 LF 60" Fiber Reinforced Plastic Duct.....	394.10	99.53
23 31 16 16-0021 LF 66" Fiber Reinforced Plastic Duct.....	427.35	121.81
23 31 16 16-0022 LF 72" Fiber Reinforced Plastic Duct.....	521.56	148.88
<b>23 31 16 16-0023 Fiber Reinforced Plastic Bell</b> (23 31 16 16-0001)		
23 31 16 16-0024 EA 2" Fiber Reinforced Plastic Bell .....	77.08	30.31
23 31 16 16-0025 EA 3" Fiber Reinforced Plastic Bell .....	92.46	35.95
23 31 16 16-0026 EA 4" Fiber Reinforced Plastic Bell .....	107.21	42.29
23 31 16 16-0027 EA 6" Fiber Reinforced Plastic Bell .....	141.58	56.39
23 31 16 16-0028 EA 8" Fiber Reinforced Plastic Bell .....	173.88	70.49
23 31 16 16-0029 EA 10" Fiber Reinforced Plastic Bell .....	204.13	84.59
23 31 16 16-0030 EA 12" Fiber Reinforced Plastic Bell .....	253.23	105.03
23 31 16 16-0031 EA 14" Fiber Reinforced Plastic Bell .....	270.04	112.79
23 31 16 16-0032 EA 16" Fiber Reinforced Plastic Bell .....	292.48	120.54
23 31 16 16-0033 EA 18" Fiber Reinforced Plastic Bell .....	314.93	129.70
23 31 16 16-0034 EA 20" Fiber Reinforced Plastic Bell .....	343.64	140.98
23 31 16 16-0035 EA 24" Fiber Reinforced Plastic Bell .....	392.40	155.08
23 31 16 16-0036 EA 30" Fiber Reinforced Plastic Bell .....	447.33	169.18
23 31 16 16-0037 EA 36" Fiber Reinforced Plastic Bell .....	506.08	190.33
23 31 16 16-0038 EA 42" Fiber Reinforced Plastic Bell .....	564.82	211.47
23 31 16 16-0039 EA 48" Fiber Reinforced Plastic Bell .....	623.54	232.62
23 31 16 16-0040 EA 54" Fiber Reinforced Plastic Bell .....	769.54	281.96
23 31 16 16-0041 EA 60" Fiber Reinforced Plastic Bell .....	931.09	352.45

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0042 EA 66" Fiber Reinforced Plastic Bell.....	1,117.23	422.94
23 31 16 16-0043 EA 72" Fiber Reinforced Plastic Bell.....	1,275.45	479.34
<b>23 31 16 16-0044 Fiber Reinforced Plastic Flange (23 31 16 16-0001)</b>		
23 31 16 16-0045 EA 2" Fiber Reinforced Plastic Flange.....	109.98	30.31
23 31 16 16-0046 EA 3" Fiber Reinforced Plastic Flange.....	127.42	35.95
23 31 16 16-0047 EA 4" Fiber Reinforced Plastic Flange.....	146.27	42.29
23 31 16 16-0048 EA 6" Fiber Reinforced Plastic Flange.....	190.92	56.39
23 31 16 16-0049 EA 8" Fiber Reinforced Plastic Flange.....	233.51	70.49
23 31 16 16-0050 EA 10" Fiber Reinforced Plastic Flange.....	276.10	84.59
23 31 16 16-0051 EA 12" Fiber Reinforced Plastic Flange.....	329.31	105.03
23 31 16 16-0052 EA 14" Fiber Reinforced Plastic Flange.....	362.57	112.79
23 31 16 16-0053 EA 16" Fiber Reinforced Plastic Flange.....	395.29	120.54
23 31 16 16-0054 EA 18" Fiber Reinforced Plastic Flange.....	421.85	129.70
23 31 16 16-0055 EA 20" Fiber Reinforced Plastic Flange.....	446.45	140.98
23 31 16 16-0056 EA 24" Fiber Reinforced Plastic Flange.....	515.76	155.08
23 31 16 16-0057 EA 30" Fiber Reinforced Plastic Flange.....	566.58	169.18
23 31 16 16-0058 EA 36" Fiber Reinforced Plastic Flange.....	684.97	190.33
23 31 16 16-0059 EA 42" Fiber Reinforced Plastic Flange.....	762.21	211.47
23 31 16 16-0060 EA 48" Fiber Reinforced Plastic Flange.....	860.00	232.62
23 31 16 16-0061 EA 54" Fiber Reinforced Plastic Flange.....	1,016.28	281.96
23 31 16 16-0062 EA 60" Fiber Reinforced Plastic Flange.....	1,225.11	352.45
23 31 16 16-0063 EA 66" Fiber Reinforced Plastic Flange.....	1,433.88	422.94
23 31 16 16-0064 EA 72" Fiber Reinforced Plastic Flange.....	1,637.33	479.34
<b>23 31 16 16-0065 Fiber Reinforced Plastic 90 Degree Elbow (23 31 16 16-0001)</b>		
23 31 16 16-0066 EA 2" Fiber Reinforced Plastic 90 Degree Elbow.....	189.66	73.02
23 31 16 16-0067 EA 3" Fiber Reinforced Plastic 90 Degree Elbow.....	223.62	87.26
23 31 16 16-0068 EA 4" Fiber Reinforced Plastic 90 Degree Elbow.....	259.64	101.50
23 31 16 16-0069 EA 6" Fiber Reinforced Plastic 90 Degree Elbow.....	338.66	135.34
23 31 16 16-0070 EA 8" Fiber Reinforced Plastic 90 Degree Elbow.....	417.67	169.18
23 31 16 16-0071 EA 10" Fiber Reinforced Plastic 90 Degree Elbow.....	496.70	203.02
23 31 16 16-0072 EA 12" Fiber Reinforced Plastic 90 Degree Elbow.....	611.95	252.50
23 31 16 16-0073 EA 14" Fiber Reinforced Plastic 90 Degree Elbow.....	681.98	267.30
23 31 16 16-0074 EA 16" Fiber Reinforced Plastic 90 Degree Elbow.....	767.62	290.28
23 31 16 16-0075 EA 18" Fiber Reinforced Plastic 90 Degree Elbow.....	893.07	311.29
23 31 16 16-0076 EA 20" Fiber Reinforced Plastic 90 Degree Elbow.....	1,016.37	338.36
23 31 16 16-0077 EA 24" Fiber Reinforced Plastic 90 Degree Elbow.....	1,165.28	372.19
23 31 16 16-0078 EA 30" Fiber Reinforced Plastic 90 Degree Elbow.....	1,509.49	406.02
23 31 16 16-0079 EA 36" Fiber Reinforced Plastic 90 Degree Elbow.....	1,892.28	456.77
23 31 16 16-0080 EA 42" Fiber Reinforced Plastic 90 Degree Elbow.....	2,429.25	507.67
23 31 16 16-0081 EA 48" Fiber Reinforced Plastic 90 Degree Elbow.....	2,853.18	558.43
23 31 16 16-0082 EA 54" Fiber Reinforced Plastic 90 Degree Elbow.....	3,389.59	676.71
23 31 16 16-0083 EA 60" Fiber Reinforced Plastic 90 Degree Elbow.....	4,123.91	845.88
23 31 16 16-0084 EA 66" Fiber Reinforced Plastic 90 Degree Elbow.....	4,857.69	1,014.78
23 31 16 16-0085 EA 72" Fiber Reinforced Plastic 90 Degree Elbow.....	5,535.35	1,149.98
<b>23 31 16 16-0086 Fiber Reinforced Plastic 45 Degree Elbow (23 31 16 16-0001)</b>		
23 31 16 16-0087 EA 2" Fiber Reinforced Plastic 45 Degree Elbow.....	167.04	73.02
23 31 16 16-0088 EA 3" Fiber Reinforced Plastic 45 Degree Elbow.....	196.89	87.26
23 31 16 16-0089 EA 4" Fiber Reinforced Plastic 45 Degree Elbow.....	228.77	101.50
23 31 16 16-0090 EA 6" Fiber Reinforced Plastic 45 Degree Elbow.....	293.42	135.34
23 31 16 16-0091 EA 8" Fiber Reinforced Plastic 45 Degree Elbow.....	358.04	169.18
23 31 16 16-0092 EA 10" Fiber Reinforced Plastic 45 Degree Elbow.....	426.89	203.02
23 31 16 16-0093 EA 12" Fiber Reinforced Plastic 45 Degree Elbow.....	527.75	252.50
23 31 16 16-0094 EA 14" Fiber Reinforced Plastic 45 Degree Elbow.....	568.78	267.30
23 31 16 16-0095 EA 16" Fiber Reinforced Plastic 45 Degree Elbow.....	660.43	290.14
23 31 16 16-0096 EA 18" Fiber Reinforced Plastic 45 Degree Elbow.....	745.41	311.57
23 31 16 16-0097 EA 20" Fiber Reinforced Plastic 45 Degree Elbow.....	847.68	338.36
23 31 16 16-0098 EA 24" Fiber Reinforced Plastic 45 Degree Elbow.....	965.18	371.91
23 31 16 16-0099 EA 30" Fiber Reinforced Plastic 45 Degree Elbow.....	1,179.98	405.74
23 31 16 16-0100 EA 36" Fiber Reinforced Plastic 45 Degree Elbow.....	1,417.97	457.20
23 31 16 16-0101 EA 42" Fiber Reinforced Plastic 45 Degree Elbow.....	1,757.50	507.96
23 31 16 16-0102 EA 48" Fiber Reinforced Plastic 45 Degree Elbow.....	2,041.01	558.43
23 31 16 16-0103 EA 54" Fiber Reinforced Plastic 45 Degree Elbow.....	2,439.66	676.71
23 31 16 16-0104 EA 60" Fiber Reinforced Plastic 45 Degree Elbow.....	2,947.80	845.88
23 31 16 16-0105 EA 66" Fiber Reinforced Plastic 45 Degree Elbow.....	3,476.83	1,012.81
23 31 16 16-0106 EA 72" Fiber Reinforced Plastic 45 Degree Elbow.....	3,933.65	1,151.11
<b>23 31 16 16-0107 Fiber Reinforced Plastic Tee (23 31 16 16-0001)</b>		
23 31 16 16-0108 EA 2" Fiber Reinforced Plastic Tee.....	253.55	108.97
23 31 16 16-0109 EA 3" Fiber Reinforced Plastic Tee.....	301.04	131.26
23 31 16 16-0110 EA 4" Fiber Reinforced Plastic Tee.....	346.30	152.26
23 31 16 16-0111 EA 6" Fiber Reinforced Plastic Tee.....	451.47	203.02
23 31 16 16-0112 EA 8" Fiber Reinforced Plastic Tee.....	554.38	252.50
23 31 16 16-0113 EA 10" Fiber Reinforced Plastic Tee.....	663.98	305.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0114 EA 12" Fiber Reinforced Plastic Tee .....	803.06	370.78
23 31 16 16-0115 EA 14" Fiber Reinforced Plastic Tee .....	874.40	401.23
23 31 16 16-0116 EA 16" Fiber Reinforced Plastic Tee .....	993.71	435.92
23 31 16 16-0117 EA 18" Fiber Reinforced Plastic Tee .....	1,107.19	466.93
23 31 16 16-0118 EA 20" Fiber Reinforced Plastic Tee .....	1,257.25	507.67
23 31 16 16-0119 EA 24" Fiber Reinforced Plastic Tee .....	1,424.16	558.43
23 31 16 16-0120 EA 30" Fiber Reinforced Plastic Tee .....	1,662.52	608.90
23 31 16 16-0121 EA 36" Fiber Reinforced Plastic Tee .....	1,964.93	685.45
23 31 16 16-0122 EA 42" Fiber Reinforced Plastic Tee .....	2,502.87	761.58
23 31 16 16-0123 EA 48" Fiber Reinforced Plastic Tee .....	2,938.50	837.85
23 31 16 16-0124 EA 54" Fiber Reinforced Plastic Tee .....	3,543.39	1,015.76
23 31 16 16-0125 EA 60" Fiber Reinforced Plastic Tee .....	4,274.51	1,269.39
23 31 16 16-0126 EA 66" Fiber Reinforced Plastic Tee .....	5,004.82	1,522.45
23 31 16 16-0127 EA 72" Fiber Reinforced Plastic Tee .....	5,652.95	1,726.31
<b>23 31 16 16-0128 Fiber Reinforced Plastic Lateral Joint</b> <small>(23 31 16 16-0001)</small>		
23 31 16 16-0129 EA 2" Fiber Reinforced Plastic Lateral Joint .....	222.69	108.97
23 31 16 16-0130 EA 3" Fiber Reinforced Plastic Lateral Joint .....	263.99	131.26
23 31 16 16-0131 EA 4" Fiber Reinforced Plastic Lateral Joint .....	303.15	152.26
23 31 16 16-0132 EA 6" Fiber Reinforced Plastic Lateral Joint .....	391.94	203.02
23 31 16 16-0133 EA 8" Fiber Reinforced Plastic Lateral Joint .....	478.40	252.50
23 31 16 16-0134 EA 10" Fiber Reinforced Plastic Lateral Joint .....	575.64	305.93
23 31 16 16-0135 EA 12" Fiber Reinforced Plastic Lateral Joint .....	692.36	371.06
23 31 16 16-0136 EA 14" Fiber Reinforced Plastic Lateral Joint .....	750.40	400.95
23 31 16 16-0137 EA 16" Fiber Reinforced Plastic Lateral Joint .....	821.29	436.06
23 31 16 16-0138 EA 18" Fiber Reinforced Plastic Lateral Joint .....	885.82	467.35
23 31 16 16-0139 EA 20" Fiber Reinforced Plastic Lateral Joint .....	965.89	507.96
23 31 16 16-0140 EA 24" Fiber Reinforced Plastic Lateral Joint .....	1,066.40	558.43
23 31 16 16-0141 EA 30" Fiber Reinforced Plastic Lateral Joint .....	1,172.57	608.61
23 31 16 16-0142 EA 36" Fiber Reinforced Plastic Lateral Joint .....	1,322.67	685.03
23 31 16 16-0143 EA 42" Fiber Reinforced Plastic Lateral Joint .....	1,475.70	762.00
23 31 16 16-0144 EA 48" Fiber Reinforced Plastic Lateral Joint .....	1,622.03	837.56
23 31 16 16-0145 EA 54" Fiber Reinforced Plastic Lateral Joint .....	1,945.01	1,012.81
23 31 16 16-0146 EA 60" Fiber Reinforced Plastic Lateral Joint .....	2,396.95	1,271.65
23 31 16 16-0147 EA 66" Fiber Reinforced Plastic Lateral Joint .....	2,888.82	1,523.58
23 31 16 16-0148 EA 72" Fiber Reinforced Plastic Lateral Joint .....	3,247.27	1,726.31
<b>23 31 16 16-0149 Fiber Reinforced Plastic One Piece Reducer</b> <small>(23 31 16 16-0001)</small>		
23 31 16 16-0150 EA 2" Fiber Reinforced Plastic One Piece Reducer .....	175.31	73.17
23 31 16 16-0151 EA 3" Fiber Reinforced Plastic One Piece Reducer .....	207.25	87.40
23 31 16 16-0152 EA 4" Fiber Reinforced Plastic One Piece Reducer .....	243.27	101.50
23 31 16 16-0153 EA 6" Fiber Reinforced Plastic One Piece Reducer .....	316.04	135.34
23 31 16 16-0154 EA 8" Fiber Reinforced Plastic One Piece Reducer .....	384.77	169.18
23 31 16 16-0155 EA 10" Fiber Reinforced Plastic One Piece Reducer .....	463.08	203.86
23 31 16 16-0156 EA 12" Fiber Reinforced Plastic One Piece Reducer .....	556.54	252.50
23 31 16 16-0157 EA 14" Fiber Reinforced Plastic One Piece Reducer .....	593.45	267.30
23 31 16 16-0158 EA 16" Fiber Reinforced Plastic One Piece Reducer .....	652.20	290.14
23 31 16 16-0159 EA 18" Fiber Reinforced Plastic One Piece Reducer .....	712.51	311.57
23 31 16 16-0160 EA 20" Fiber Reinforced Plastic One Piece Reducer .....	790.11	338.36
23 31 16 16-0161 EA 24" Fiber Reinforced Plastic One Piece Reducer .....	892.47	372.62
23 31 16 16-0162 EA 30" Fiber Reinforced Plastic One Piece Reducer .....	994.44	406.73
23 31 16 16-0163 EA 36" Fiber Reinforced Plastic One Piece Reducer .....	1,123.94	457.20
23 31 16 16-0164 EA 42" Fiber Reinforced Plastic One Piece Reducer .....	1,253.75	507.96
23 31 16 16-0165 EA 48" Fiber Reinforced Plastic One Piece Reducer .....	1,403.60	558.43
23 31 16 16-0166 EA 54" Fiber Reinforced Plastic One Piece Reducer .....	1,672.72	676.71
23 31 16 16-0167 EA 60" Fiber Reinforced Plastic One Piece Reducer .....	2,020.48	845.88
23 31 16 16-0168 EA 66" Fiber Reinforced Plastic One Piece Reducer .....	2,304.83	1,012.81
23 31 16 16-0169 EA 72" Fiber Reinforced Plastic One Piece Reducer .....	2,597.16	1,151.11
<b>23 31 16 16-0170 Fiber Reinforced Plastic Two Piece Reducer</b> <small>(23 31 16 16-0001)</small>		
23 31 16 16-0171 EA 2" Fiber Reinforced Plastic Two Piece Reducer .....	199.98	73.17
23 31 16 16-0172 EA 3" Fiber Reinforced Plastic Two Piece Reducer .....	223.70	87.40
23 31 16 16-0173 EA 4" Fiber Reinforced Plastic Two Piece Reducer .....	259.72	101.50
23 31 16 16-0174 EA 6" Fiber Reinforced Plastic Two Piece Reducer .....	338.66	135.34
23 31 16 16-0175 EA 8" Fiber Reinforced Plastic Two Piece Reducer .....	417.67	169.18
23 31 16 16-0176 EA 10" Fiber Reinforced Plastic Two Piece Reducer .....	498.03	203.86
23 31 16 16-0177 EA 12" Fiber Reinforced Plastic Two Piece Reducer .....	601.77	252.50
23 31 16 16-0178 EA 14" Fiber Reinforced Plastic Two Piece Reducer .....	651.02	267.30
23 31 16 16-0179 EA 16" Fiber Reinforced Plastic Two Piece Reducer .....	709.78	290.14
23 31 16 16-0180 EA 18" Fiber Reinforced Plastic Two Piece Reducer .....	790.64	311.57
23 31 16 16-0181 EA 20" Fiber Reinforced Plastic Two Piece Reducer .....	962.82	338.36
23 31 16 16-0182 EA 24" Fiber Reinforced Plastic Two Piece Reducer .....	1,145.38	372.62
23 31 16 16-0183 EA 30" Fiber Reinforced Plastic Two Piece Reducer .....	1,232.95	406.73
23 31 16 16-0184 EA 36" Fiber Reinforced Plastic Two Piece Reducer .....	1,399.46	457.20
23 31 16 16-0185 EA 42" Fiber Reinforced Plastic Two Piece Reducer .....	1,525.16	507.96
23 31 16 16-0186 EA 48" Fiber Reinforced Plastic Two Piece Reducer .....	1,670.90	558.43
23 31 16 16-0187 EA 54" Fiber Reinforced Plastic Two Piece Reducer .....	1,888.61	676.71
23 31 16 16-0188 EA 60" Fiber Reinforced Plastic Two Piece Reducer .....	2,224.04	845.88

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0189 EA 66" Fiber Reinforced Plastic Two Piece Reducer .....	2,531.01	1,012.81
23 31 16 16-0190 EA 72" Fiber Reinforced Plastic Two Piece Reducer .....	2,802.77	1,151.11
<b>23 31 16 16-0191 Fiber Reinforced Plastic Butterfly Dampers (23 31 16 16-0001)</b>		
23 31 16 16-0192 EA 2" Fiber Reinforced Plastic Damper.....	458.06	73.02
23 31 16 16-0193 EA 3" Fiber Reinforced Plastic Damper.....	517.16	87.26
23 31 16 16-0194 EA 4" Fiber Reinforced Plastic Damper.....	576.24	101.50
23 31 16 16-0195 EA 6" Fiber Reinforced Plastic Damper.....	685.73	135.34
23 31 16 16-0196 EA 8" Fiber Reinforced Plastic Damper.....	812.92	169.18
23 31 16 16-0197 EA 10" Fiber Reinforced Plastic Damper.....	922.43	203.02
23 31 16 16-0198 EA 12" Fiber Reinforced Plastic Damper.....	1,057.88	252.50
23 31 16 16-0199 EA 14" Fiber Reinforced Plastic Damper.....	1,171.16	267.30
23 31 16 16-0200 EA 16" Fiber Reinforced Plastic Damper.....	1,298.00	290.28
23 31 16 16-0201 EA 18" Fiber Reinforced Plastic Damper.....	1,421.47	311.29
23 31 16 16-0202 EA 20" Fiber Reinforced Plastic Damper.....	1,519.74	338.36
23 31 16 16-0203 EA 24" Fiber Reinforced Plastic Damper.....	1,717.71	372.19
23 31 16 16-0204 EA 30" Fiber Reinforced Plastic Damper.....	1,986.44	406.02
23 31 16 16-0205 EA 36" Fiber Reinforced Plastic Damper.....	2,283.47	456.77
23 31 16 16-0206 EA 42" Fiber Reinforced Plastic Damper.....	2,615.87	507.67
23 31 16 16-0207 EA 48" Fiber Reinforced Plastic Damper.....	2,912.92	558.43
23 31 16 16-0208 EA 54" Fiber Reinforced Plastic Damper.....	3,428.64	676.71
23 31 16 16-0209 EA 60" Fiber Reinforced Plastic Damper.....	4,029.19	845.88
23 31 16 16-0210 EA 66" Fiber Reinforced Plastic Damper.....	4,593.78	1,014.78
23 31 16 16-0211 EA 72" Fiber Reinforced Plastic Damper.....	5,279.26	1,149.98
<b>23 31 16 23 Fabric Ducts (23 31 16)</b>		
<b>23 31 16 23-0001 Heavy Duty Fabric Ducts (Zip-A-Duct™) (23 31 16 23)</b>		
<b>23 31 16 23-0002 Heavy Duty Fabric Duct Without Vents (23 31 16 23-0001)</b>		
Note: Includes fabric loops for cable hooks. Requires Suspension Hardware as well as an Inlet Section and Endcap per complete run. See CSI section 23 31 16 23-0064 for suspension hardware.		
23 31 16 23-0003 EA 12" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents.....	195.02	10.65
Note: Excludes suspension cable and hardware.		
23 31 16 23-0004 EA 12" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents.....	303.48	14.19
Note: Excludes suspension cable and hardware.		
23 31 16 23-0005 EA 16" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents.....	238.24	17.74
Note: Excludes suspension cable and hardware.		
23 31 16 23-0006 EA 16" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents.....	352.84	23.31
Note: Excludes suspension cable and hardware.		
23 31 16 23-0007 EA 20" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents.....	290.77	24.33
Note: Excludes suspension cable and hardware.		
23 31 16 23-0008 EA 20" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents.....	415.24	32.44
Note: Excludes suspension cable and hardware.		
23 31 16 23-0009 EA 24" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents.....	340.50	31.42
Note: Excludes suspension cable and hardware.		
23 31 16 23-0010 EA 24" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents.....	477.63	41.56
Note: Excludes suspension cable and hardware.		
23 31 16 23-0011 EA 28" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents.....	380.38	35.99
Note: Excludes suspension cable and hardware.		
23 31 16 23-0012 EA 28" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents.....	567.08	48.15
Note: Excludes suspension cable and hardware.		
23 31 16 23-0013 EA 32" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents.....	418.74	40.04
Note: Excludes suspension cable and hardware.		
23 31 16 23-0014 EA 32" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents.....	632.39	53.21
Note: Excludes suspension cable and hardware.		
23 31 16 23-0015 EA 36" Diameter x 5' Long Gray Heavy Duty Fabric Duct Without Vents.....	457.34	45.62
Note: Excludes suspension cable and hardware.		
23 31 16 23-0016 EA 36" Diameter x 10' Long Gray Heavy Duty Fabric Duct Without Vents.....	729.26	60.82
Note: Excludes suspension cable and hardware.		
<b>23 31 16 23-0017 Heavy Duty Fabric Duct With Vents (23 31 16 23-0001)</b>		
23 31 16 23-0018 EA 12" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents.....	520.64	14.19
Note: Excludes suspension cable and hardware.		
23 31 16 23-0019 EA 16" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents.....	583.03	23.31
Note: Excludes suspension cable and hardware.		
23 31 16 23-0020 EA 20" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents.....	656.29	32.44
Note: Excludes suspension cable and hardware.		
23 31 16 23-0021 EA 24" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents.....	731.71	41.56
Note: Excludes suspension cable and hardware.		
23 31 16 23-0022 EA 28" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents.....	879.79	48.15
Note: Excludes suspension cable and hardware.		
23 31 16 23-0023 EA 32" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents.....	945.10	53.21
Note: Excludes suspension cable and hardware.		
23 31 16 23-0024 EA 36" Diameter x 10' Long Gray Heavy Duty Fabric Duct With Vents.....	1,068.03	60.82
Note: Excludes suspension cable and hardware.		
<b>23 31 16 23-0025 Heavy Duty Fabric Duct 90 Degree Elbow (23 31 16 23-0001)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 23-0026 EA 12" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow ..... Note: Excludes suspension cable and hardware.	391.26	15.21
23 31 16 23-0027 EA 16" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow ..... Note: Excludes suspension cable and hardware.	442.78	24.33
23 31 16 23-0028 EA 20" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow ..... Note: Excludes suspension cable and hardware.	594.42	26.36
23 31 16 23-0029 EA 24" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow ..... Note: Excludes suspension cable and hardware.	728.49	35.48
23 31 16 23-0030 EA 28" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow ..... Note: Excludes suspension cable and hardware.	916.67	39.53
23 31 16 23-0031 EA 32" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow ..... Note: Excludes suspension cable and hardware.	1,138.05	43.08
23 31 16 23-0032 EA 36" Diameter Gray Heavy Duty Fabric Duct 90 Degree Elbow ..... Note: Excludes suspension cable and hardware.	1,292.50	48.15
<b>23 31 16 23-0033 Heavy Duty Fabric Duct 45 Degree Elbow</b> <small>(23 31 16 23-0001)</small>		
23 31 16 23-0034 EA 12" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow ..... Note: Excludes suspension cable and hardware.	302.22	15.21
23 31 16 23-0035 EA 16" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow ..... Note: Excludes suspension cable and hardware.	360.26	24.33
23 31 16 23-0036 EA 20" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow ..... Note: Excludes suspension cable and hardware.	403.32	26.36
23 31 16 23-0037 EA 24" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow ..... Note: Excludes suspension cable and hardware.	474.41	35.48
23 31 16 23-0038 EA 28" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow ..... Note: Excludes suspension cable and hardware.	547.50	39.53
23 31 16 23-0039 EA 32" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow ..... Note: Excludes suspension cable and hardware.	653.79	43.08
23 31 16 23-0040 EA 36" Diameter Gray Heavy Duty Fabric Duct 45 Degree Elbow ..... Note: Excludes suspension cable and hardware.	745.15	48.15
<b>23 31 16 23-0041 Heavy Duty Fabric Duct Tee</b> <small>(23 31 16 23-0001)</small>		
23 31 16 23-0042 EA 16" x 12" x 12" Gray Heavy Duty Fabric Duct Tee ..... Note: Excludes suspension cable and hardware.	954.34	35.48
23 31 16 23-0043 EA 20" x 16" x 16" Gray Heavy Duty Fabric Duct Tee ..... Note: Excludes suspension cable and hardware.	1,005.45	38.02
23 31 16 23-0044 EA 24" x 16" x 16" Gray Heavy Duty Fabric Duct Tee ..... Note: Excludes suspension cable and hardware.	1,097.49	51.19
23 31 16 23-0045 EA 28" x 20" x 20" Gray Heavy Duty Fabric Duct Tee ..... Note: Excludes suspension cable and hardware.	1,157.19	57.28
23 31 16 23-0046 EA 32" x 24" x 24" Gray Heavy Duty Fabric Duct Tee ..... Note: Excludes suspension cable and hardware.	1,202.95	62.34
23 31 16 23-0047 EA 36" x 28" x 28" Gray Heavy Duty Fabric Duct Tee ..... Note: Excludes suspension cable and hardware.	1,265.06	69.94
<b>23 31 16 23-0048 Heavy Duty Fabric Duct Inlets</b> <small>(23 31 16 23-0001)</small>		
23 31 16 23-0049 EA 12" Diameter Gray Heavy Duty Fabric Duct Transition Inlet ..... Note: Excludes suspension cable and hardware.	161.07	15.21
23 31 16 23-0050 EA 16" Diameter Gray Heavy Duty Fabric Duct Transition Inlet ..... Note: Excludes suspension cable and hardware.	195.22	24.33
23 31 16 23-0051 EA 20" Diameter Gray Heavy Duty Fabric Duct Transition Inlet ..... Note: Excludes suspension cable and hardware.	210.05	26.36
23 31 16 23-0052 EA 24" Diameter Gray Heavy Duty Fabric Duct Transition Inlet ..... Note: Excludes suspension cable and hardware.	246.39	35.48
23 31 16 23-0053 EA 28" Diameter Gray Heavy Duty Fabric Duct Transition Inlet ..... Note: Excludes suspension cable and hardware.	265.19	39.53
23 31 16 23-0054 EA 32" Diameter Gray Heavy Duty Fabric Duct Transition Inlet ..... Note: Excludes suspension cable and hardware.	284.62	43.08
23 31 16 23-0055 EA 36" Diameter Gray Heavy Duty Fabric Duct Transition Inlet ..... Note: Excludes suspension cable and hardware.	313.00	48.15
<b>23 31 16 23-0056 Heavy Duty Fabric Duct Cap</b> <small>(23 31 16 23-0001)</small>		
23 31 16 23-0057 EA 12" Diameter Gray Heavy Duty Fabric Duct End Cap ..... Note: Excludes suspension cable and hardware.	94.85	9.13
23 31 16 23-0058 EA 16" Diameter Gray Heavy Duty Fabric Duct End Cap ..... Note: Excludes suspension cable and hardware.	122.61	14.70
23 31 16 23-0059 EA 20" Diameter Gray Heavy Duty Fabric Duct End Cap ..... Note: Excludes suspension cable and hardware.	143.06	15.71
23 31 16 23-0060 EA 24" Diameter Gray Heavy Duty Fabric Duct End Cap ..... Note: Excludes suspension cable and hardware.	199.03	21.29
23 31 16 23-0061 EA 28" Diameter Gray Heavy Duty Fabric Duct End Cap ..... Note: Excludes suspension cable and hardware.	237.11	23.82
23 31 16 23-0062 EA 32" Diameter Gray Heavy Duty Fabric Duct End Cap ..... Note: Excludes suspension cable and hardware.	293.20	25.85
23 31 16 23-0063 EA 36" Diameter Gray Heavy Duty Fabric Duct End Cap ..... Note: Excludes suspension cable and hardware.	330.65	28.89
<b>23 31 16 23-0064 Heavy Duty Fabric Duct Suspension Hardware</b> <small>(23 31 16 23-0001)</small>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 31 HVAC Ducts and Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 23-0065 EA 12 To 20 Inch Diameter Ducts Fixing Strap With Galvanized Hardware..... Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.	41.51	7.68
23 31 16 23-0066 EA 20 To 36 Inch Diameter Ducts Fixing Strap With Galvanized Hardware..... Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.	64.32	11.52
23 31 16 23-0067 EA Galvanized Cable Locks For Horizontal Cables..... Note: Requires two (2) cable locks per support point or per stretcher.	16.29	3.84
23 31 16 23-0068 LF Galvanized Plastic Coated Cable For Fabric Duct..... Note: Excludes anchor bolts or anchors.	0.85	0.15
23 31 16 23-0069 EA Galvanized Stretcher For Straight Fabric Duct Runs .....	36.71	7.68
23 31 16 23-0070 EA 12 To 20 Inch Diameter Ducts Fixing Strap With Stainless Steel Hardware..... Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.	70.35	7.68
23 31 16 23-0071 EA 20 To 36 Inch Diameter Ducts Fixing Strap With Stainless Steel Hardware..... Note: Vertical support straps are recommended every six (6) to ten (10) feet along the length of the duct.	97.11	11.52
23 31 16 23-0072 EA Stainless Steel Cable Locks For Horizontal Cables..... Note: Requires two (2) cable locks per support point or per stretcher.	20.35	3.84
23 31 16 23-0073 LF Stainless Steel Plastic Coated Cable For Fabric Duct..... Note: Excludes anchor bolts or anchors.	2.50	0.15
23 31 16 23-0074 EA Stainless Steel Stretcher For Straight Fabric Duct Runs .....	47.22	7.68

**23 33 Air Duct Accessories (23 30)****23 33 13 Dampers (23 33)****23 33 13 13 Volume-Control Dampers (23 33 13)****23 33 13 13-0001 Radial Opposed Blade Damper Steel Construction (Ruskin CDR) (23 33 13 13)**

23 33 13 13-0002 EA 6" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	129.21	12.28
For Stainless Steel, Add	106.08	
For Parallel Blade Damper, Add	32.64	
23 33 13 13-0003 EA 7" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	138.01	13.80
For Stainless Steel, Add	107.61	
For Parallel Blade Damper, Add	33.11	
23 33 13 13-0004 EA 8" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	147.87	15.34
For Stainless Steel, Add	108.75	
For Parallel Blade Damper, Add	33.46	
23 33 13 13-0005 EA 10" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	159.68	18.41
For Stainless Steel, Add	115.54	
For Parallel Blade Damper, Add	35.55	
23 33 13 13-0006 EA 12" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	173.01	19.94
For Stainless Steel, Add	122.34	
For Parallel Blade Damper, Add	37.64	
23 33 13 13-0007 EA 14" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	206.54	21.48
For Stainless Steel, Add	156.33	
For Parallel Blade Damper, Add	48.10	
23 33 13 13-0008 EA 15" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	225.92	23.01
For Stainless Steel, Add	169.92	
For Parallel Blade Damper, Add	52.28	
23 33 13 13-0009 EA 16" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	238.18	26.08
For Stainless Steel, Add	176.70	
For Parallel Blade Damper, Add	54.37	
23 33 13 13-0010 EA 18" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	262.07	27.61
For Stainless Steel, Add	197.11	
For Parallel Blade Damper, Add	60.65	
23 33 13 13-0011 EA 20" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	308.27	30.68
For Stainless Steel, Add	244.69	
For Parallel Blade Damper, Add	75.29	
23 33 13 13-0012 EA 24" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	339.84	30.68
For Stainless Steel, Add	278.63	
For Parallel Blade Damper, Add	85.73	
23 33 13 13-0013 EA 30" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	388.99	35.28
For Stainless Steel, Add	326.21	
For Parallel Blade Damper, Add	100.37	
23 33 13 13-0014 EA 36" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated .....	418.76	36.82
For Stainless Steel, Add	355.46	
For Parallel Blade Damper, Add	109.37	

**23 33 13 13-0015 Rectangular Opposed Blade Damper (Ruskin CD) (23 33 13 13)**

23 33 13 13-0016 EA 6" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	146.39	17.05
For Stainless Steel, Add	123.83	
For Parallel Blade Damper, Add	38.10	
23 33 13 13-0017 EA 8" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	155.46	17.81
For Stainless Steel, Add	132.61	
For Parallel Blade Damper, Add	40.80	
23 33 13 13-0018 EA 8" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	162.58	17.97
For Stainless Steel, Add	141.47	
For Parallel Blade Damper, Add	43.53	
23 33 13 13-0019 EA 10" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	162.58	17.97
For Stainless Steel, Add	141.47	
For Parallel Blade Damper, Add	43.53	
23 33 13 13-0020 EA 10" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	170.93	18.44
For Stainless Steel, Add	150.32	
For Parallel Blade Damper, Add	46.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0021 EA 10" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	190.65	20.43
For Stainless Steel, Add	167.97	
For Parallel Blade Damper, Add	51.68	
23 33 13 13-0022 EA 12" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	170.93	18.44
For Stainless Steel, Add	150.32	
For Parallel Blade Damper, Add	46.25	
23 33 13 13-0023 EA 12" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	187.57	19.50
For Stainless Steel, Add	167.97	
For Parallel Blade Damper, Add	51.68	
23 33 13 13-0024 EA 12" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	197.50	20.43
For Stainless Steel, Add	176.88	
For Parallel Blade Damper, Add	54.42	
23 33 13 13-0025 EA 12" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	218.49	23.04
For Stainless Steel, Add	194.18	
For Parallel Blade Damper, Add	59.75	
23 33 13 13-0026 EA 14" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	184.21	19.50
For Stainless Steel, Add	163.61	
For Parallel Blade Damper, Add	50.34	
23 33 13 13-0027 EA 14" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	197.50	20.43
For Stainless Steel, Add	176.88	
For Parallel Blade Damper, Add	54.42	
23 33 13 13-0028 EA 14" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	207.37	21.50
For Stainless Steel, Add	185.73	
For Parallel Blade Damper, Add	57.15	
23 33 13 13-0029 EA 14" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	218.80	23.04
For Stainless Steel, Add	194.58	
For Parallel Blade Damper, Add	59.87	
23 33 13 13-0030 EA 14" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	243.46	25.65
For Stainless Steel, Add	216.66	
For Parallel Blade Damper, Add	66.66	
23 33 13 13-0031 EA 16" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	197.50	20.43
For Stainless Steel, Add	176.88	
For Parallel Blade Damper, Add	54.42	
23 33 13 13-0032 EA 16" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	208.91	21.96
For Stainless Steel, Add	185.73	
For Parallel Blade Damper, Add	57.15	
23 33 13 13-0033 EA 16" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	221.86	24.11
For Stainless Steel, Add	194.58	
For Parallel Blade Damper, Add	59.87	
23 33 13 13-0034 EA 16" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	233.25	25.65
For Stainless Steel, Add	203.39	
For Parallel Blade Damper, Add	62.58	
23 33 13 13-0035 EA 16" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	258.00	28.11
For Stainless Steel, Add	225.58	
For Parallel Blade Damper, Add	69.41	
23 33 13 13-0036 EA 16" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	282.66	30.72
For Stainless Steel, Add	247.65	
For Parallel Blade Damper, Add	76.20	
23 33 13 13-0037 EA 18" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	207.37	21.50
For Stainless Steel, Add	185.73	
For Parallel Blade Damper, Add	57.15	
23 33 13 13-0038 EA 18" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	222.16	23.04
For Stainless Steel, Add	198.95	
For Parallel Blade Damper, Add	61.22	
23 33 13 13-0039 EA 18" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	240.10	25.65
For Stainless Steel, Add	212.29	
For Parallel Blade Damper, Add	65.32	
23 33 13 13-0040 EA 18" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	264.81	28.11
For Stainless Steel, Add	234.43	
For Parallel Blade Damper, Add	72.13	
23 33 13 13-0041 EA 18" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	286.06	30.72
For Stainless Steel, Add	252.07	
For Parallel Blade Damper, Add	77.56	
23 33 13 13-0042 EA 18" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	301.14	33.17
For Stainless Steel, Add	261.69	
For Parallel Blade Damper, Add	80.52	
23 33 13 13-0043 EA 18" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	318.57	35.78
For Stainless Steel, Add	274.37	
For Parallel Blade Damper, Add	84.42	
23 33 13 13-0044 EA 20" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	205.20	23.04
For Stainless Steel, Add	176.90	
For Parallel Blade Damper, Add	54.43	
23 33 13 13-0045 EA 20" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	225.22	25.65
For Stainless Steel, Add	192.95	
For Parallel Blade Damper, Add	59.37	
23 33 13 13-0046 EA 20" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	245.28	28.11
For Stainless Steel, Add	209.04	
For Parallel Blade Damper, Add	64.32	
23 33 13 13-0047 EA 20" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	277.72	30.72
For Stainless Steel, Add	241.23	
For Parallel Blade Damper, Add	74.22	
23 33 13 13-0048 EA 20" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	294.69	33.17
For Stainless Steel, Add	253.31	
For Parallel Blade Damper, Add	77.94	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0049 EA 20" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	311.66	35.78
For Stainless Steel, Add	265.38	
For Parallel Blade Damper, Add	81.66	
23 33 13 13-0050 EA 20" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	331.67	38.40
For Stainless Steel, Add	281.41	
For Parallel Blade Damper, Add	86.59	
23 33 13 13-0051 EA 20" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	351.67	40.85
For Stainless Steel, Add	297.45	
For Parallel Blade Damper, Add	91.52	
23 33 13 13-0052 EA 24" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	231.41	25.65
For Stainless Steel, Add	200.99	
For Parallel Blade Damper, Add	61.84	
23 33 13 13-0053 EA 24" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	257.66	28.11
For Stainless Steel, Add	225.13	
For Parallel Blade Damper, Add	69.27	
23 33 13 13-0054 EA 24" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	277.72	30.72
For Stainless Steel, Add	241.23	
For Parallel Blade Damper, Add	74.22	
23 33 13 13-0055 EA 24" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	303.98	33.17
For Stainless Steel, Add	265.38	
For Parallel Blade Damper, Add	81.66	
23 33 13 13-0056 EA 24" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	320.90	35.78
For Stainless Steel, Add	277.39	
For Parallel Blade Damper, Add	85.35	
23 33 13 13-0057 EA 24" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	337.87	38.40
For Stainless Steel, Add	289.47	
For Parallel Blade Damper, Add	89.07	
23 33 13 13-0058 EA 24" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	364.06	40.85
For Stainless Steel, Add	313.56	
For Parallel Blade Damper, Add	96.48	
23 33 13 13-0059 EA 24" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	397.95	46.08
For Stainless Steel, Add	337.65	
For Parallel Blade Damper, Add	103.89	
23 33 13 13-0060 EA 24" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	438.11	51.14
For Stainless Steel, Add	369.89	
For Parallel Blade Damper, Add	113.81	
23 33 13 13-0061 EA 28" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	257.66	28.11
For Stainless Steel, Add	225.13	
For Parallel Blade Damper, Add	69.27	
23 33 13 13-0062 EA 28" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	277.72	30.72
For Stainless Steel, Add	241.23	
For Parallel Blade Damper, Add	74.22	
23 33 13 13-0063 EA 28" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	303.98	33.17
For Stainless Steel, Add	265.38	
For Parallel Blade Damper, Add	81.66	
23 33 13 13-0064 EA 28" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	323.99	35.78
For Stainless Steel, Add	281.41	
For Parallel Blade Damper, Add	86.59	
23 33 13 13-0065 EA 28" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	347.11	38.40
For Stainless Steel, Add	301.48	
For Parallel Blade Damper, Add	92.76	
23 33 13 13-0066 EA 28" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	370.20	40.85
For Stainless Steel, Add	321.54	
For Parallel Blade Damper, Add	98.94	
23 33 13 13-0067 EA 28" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	404.14	46.08
For Stainless Steel, Add	345.70	
For Parallel Blade Damper, Add	106.37	
23 33 13 13-0068 EA 28" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	438.11	51.14
For Stainless Steel, Add	369.89	
For Parallel Blade Damper, Add	113.81	
23 33 13 13-0069 EA 28" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	482.86	53.76
For Stainless Steel, Add	418.08	
For Parallel Blade Damper, Add	128.64	
23 33 13 13-0070 EA 28" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	529.13	58.82
For Stainless Steel, Add	458.26	
For Parallel Blade Damper, Add	141.00	
23 33 13 13-0071 EA 32" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	296.30	30.72
For Stainless Steel, Add	265.38	
For Parallel Blade Damper, Add	81.66	
23 33 13 13-0072 EA 32" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	310.12	33.17
For Stainless Steel, Add	273.36	
For Parallel Blade Damper, Add	84.11	
23 33 13 13-0073 EA 32" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	323.99	35.78
For Stainless Steel, Add	281.41	
For Parallel Blade Damper, Add	86.59	
23 33 13 13-0074 EA 32" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	344.01	38.40
For Stainless Steel, Add	297.45	
For Parallel Blade Damper, Add	91.52	
23 33 13 13-0075 EA 32" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	371.41	40.85
For Stainless Steel, Add	323.12	
For Parallel Blade Damper, Add	99.42	
23 33 13 13-0076 EA 32" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	404.14	46.08
For Stainless Steel, Add	345.70	
For Parallel Blade Damper, Add	106.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0077 EA 32" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	444.31	51.14
<i>For Stainless Steel, Add</i>	377.95	
<i>For Parallel Blade Damper, Add</i>	116.29	
23 33 13 13-0078 EA 32" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	484.39	56.21
<i>For Stainless Steel, Add</i>	410.09	
<i>For Parallel Blade Damper, Add</i>	126.18	
23 33 13 13-0079 EA 32" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	529.13	58.82
<i>For Stainless Steel, Add</i>	458.26	
<i>For Parallel Blade Damper, Add</i>	141.00	
23 33 13 13-0080 EA 32" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	584.77	62.98
<i>For Stainless Steel, Add</i>	514.61	
<i>For Parallel Blade Damper, Add</i>	158.34	
23 33 13 13-0081 EA 32" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	644.99	66.50
<i>For Stainless Steel, Add</i>	578.93	
<i>For Parallel Blade Damper, Add</i>	178.13	
23 33 13 13-0082 EA 36" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	322.51	33.17
<i>For Stainless Steel, Add</i>	289.47	
<i>For Parallel Blade Damper, Add</i>	89.07	
23 33 13 13-0083 EA 36" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	342.53	35.78
<i>For Stainless Steel, Add</i>	305.51	
<i>For Parallel Blade Damper, Add</i>	94.00	
23 33 13 13-0084 EA 36" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	362.54	38.40
<i>For Stainless Steel, Add</i>	321.54	
<i>For Parallel Blade Damper, Add</i>	98.94	
23 33 13 13-0085 EA 36" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	388.78	40.85
<i>For Stainless Steel, Add</i>	345.70	
<i>For Parallel Blade Damper, Add</i>	106.37	
23 33 13 13-0086 EA 36" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	413.47	46.08
<i>For Stainless Steel, Add</i>	357.83	
<i>For Parallel Blade Damper, Add</i>	110.10	
23 33 13 13-0087 EA 36" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	430.43	48.53
<i>For Stainless Steel, Add</i>	369.89	
<i>For Parallel Blade Damper, Add</i>	113.81	
23 33 13 13-0088 EA 36" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	484.39	56.21
<i>For Stainless Steel, Add</i>	410.09	
<i>For Parallel Blade Damper, Add</i>	126.18	
23 33 13 13-0089 EA 36" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	530.62	61.44
<i>For Stainless Steel, Add</i>	450.22	
<i>For Parallel Blade Damper, Add</i>	138.53	
23 33 13 13-0090 EA 36" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	573.90	63.43
<i>For Stainless Steel, Add</i>	498.50	
<i>For Parallel Blade Damper, Add</i>	153.38	
23 33 13 13-0091 EA 36" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	637.19	68.04
<i>For Stainless Steel, Add</i>	562.78	
<i>For Parallel Blade Damper, Add</i>	173.16	
23 33 13 13-0092 EA 36" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	691.22	71.57
<i>For Stainless Steel, Add</i>	619.06	
<i>For Parallel Blade Damper, Add</i>	190.48	
23 33 13 13-0093 EA 36" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	748.39	74.18
<i>For Stainless Steel, Add</i>	683.40	
<i>For Parallel Blade Damper, Add</i>	210.28	
23 33 13 13-0094 EA 40" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	336.33	38.40
<i>For Stainless Steel, Add</i>	297.45	
<i>For Parallel Blade Damper, Add</i>	91.52	
23 33 13 13-0095 EA 40" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	368.74	40.85
<i>For Stainless Steel, Add</i>	329.60	
<i>For Parallel Blade Damper, Add</i>	101.42	
23 33 13 13-0096 EA 40" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	382.59	43.46
<i>For Stainless Steel, Add</i>	337.65	
<i>For Parallel Blade Damper, Add</i>	103.89	
23 33 13 13-0097 EA 40" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	396.46	46.08
<i>For Stainless Steel, Add</i>	345.70	
<i>For Parallel Blade Damper, Add</i>	106.37	
23 33 13 13-0098 EA 40" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	433.49	48.53
<i>For Stainless Steel, Add</i>	373.87	
<i>For Parallel Blade Damper, Add</i>	115.04	
23 33 13 13-0099 EA 40" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	462.84	51.14
<i>For Stainless Steel, Add</i>	402.04	
<i>For Parallel Blade Damper, Add</i>	123.70	
23 33 13 13-0100 EA 40" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	510.60	58.82
<i>For Stainless Steel, Add</i>	434.17	
<i>For Parallel Blade Damper, Add</i>	133.59	
23 33 13 13-0101 EA 40" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	550.72	63.89
<i>For Stainless Steel, Add</i>	466.36	
<i>For Parallel Blade Damper, Add</i>	143.50	
23 33 13 13-0102 EA 40" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	600.13	68.04
<i>For Stainless Steel, Add</i>	514.61	
<i>For Parallel Blade Damper, Add</i>	158.34	
23 33 13 13-0103 EA 40" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	678.88	71.57
<i>For Stainless Steel, Add</i>	603.02	
<i>For Parallel Blade Damper, Add</i>	185.54	
23 33 13 13-0104 EA 40" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	728.22	75.72
<i>For Stainless Steel, Add</i>	651.20	
<i>For Parallel Blade Damper, Add</i>	200.37	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0105 EA 40" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	802.44	77.71
For Stainless Steel, Add	739.67	
For Parallel Blade Damper, Add	227.59	
23 33 13 13-0106 EA 40" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	876.59	81.86
For Stainless Steel, Add	820.11	
For Parallel Blade Damper, Add	252.34	
23 33 13 13-0107 EA 44" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	356.40	38.40
For Stainless Steel, Add	313.56	
For Parallel Blade Damper, Add	96.48	
23 33 13 13-0108 EA 44" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	388.78	40.85
For Stainless Steel, Add	345.70	
For Parallel Blade Damper, Add	106.37	
23 33 13 13-0109 EA 44" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	415.07	43.46
For Stainless Steel, Add	369.89	
For Parallel Blade Damper, Add	113.81	
23 33 13 13-0110 EA 44" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	428.95	46.08
For Stainless Steel, Add	377.95	
For Parallel Blade Damper, Add	116.29	
23 33 13 13-0111 EA 44" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	461.35	48.53
For Stainless Steel, Add	410.09	
For Parallel Blade Damper, Add	126.18	
23 33 13 13-0112 EA 44" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	493.75	51.14
For Stainless Steel, Add	442.22	
For Parallel Blade Damper, Add	136.07	
23 33 13 13-0113 EA 44" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	555.42	61.44
For Stainless Steel, Add	482.46	
For Parallel Blade Damper, Add	148.45	
23 33 13 13-0114 EA 44" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	601.65	66.50
For Stainless Steel, Add	522.59	
For Parallel Blade Damper, Add	160.80	
23 33 13 13-0115 EA 44" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	678.88	71.57
For Stainless Steel, Add	603.02	
For Parallel Blade Damper, Add	185.54	
23 33 13 13-0116 EA 44" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	749.92	76.80
For Stainless Steel, Add	675.40	
For Parallel Blade Damper, Add	207.82	
23 33 13 13-0117 EA 44" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	827.06	81.86
For Stainless Steel, Add	755.72	
For Parallel Blade Damper, Add	232.53	
23 33 13 13-0118 EA 44" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	890.42	84.32
For Stainless Steel, Add	828.10	
For Parallel Blade Damper, Add	254.80	
23 33 13 13-0119 EA 44" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	953.78	86.93
For Stainless Steel, Add	900.48	
For Parallel Blade Damper, Add	277.07	
23 33 13 13-0120 EA 44" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	1,017.13	89.54
For Stainless Steel, Add	972.86	
For Parallel Blade Damper, Add	299.34	
23 33 13 13-0121 EA 48" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	382.59	40.85
For Stainless Steel, Add	337.65	
For Parallel Blade Damper, Add	103.89	
23 33 13 13-0122 EA 48" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	415.07	43.46
For Stainless Steel, Add	369.89	
For Parallel Blade Damper, Add	113.81	
23 33 13 13-0123 EA 48" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	428.95	46.08
For Stainless Steel, Add	377.95	
For Parallel Blade Damper, Add	116.29	
23 33 13 13-0124 EA 48" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	462.84	51.14
For Stainless Steel, Add	402.04	
For Parallel Blade Damper, Add	123.70	
23 33 13 13-0125 EA 48" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	502.92	56.21
For Stainless Steel, Add	434.17	
For Parallel Blade Damper, Add	133.59	
23 33 13 13-0126 EA 48" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	543.04	61.44
For Stainless Steel, Add	466.36	
For Parallel Blade Damper, Add	143.50	
23 33 13 13-0127 EA 48" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	595.51	66.50
For Stainless Steel, Add	514.61	
For Parallel Blade Damper, Add	158.34	
23 33 13 13-0128 EA 48" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	647.93	71.57
For Stainless Steel, Add	562.78	
For Parallel Blade Damper, Add	173.16	
23 33 13 13-0129 EA 48" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	718.96	76.80
For Stainless Steel, Add	635.15	
For Parallel Blade Damper, Add	195.43	
23 33 13 13-0130 EA 48" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	802.34	81.86
For Stainless Steel, Add	723.58	
For Parallel Blade Damper, Add	222.64	
23 33 13 13-0131 EA 48" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	865.74	84.32
For Stainless Steel, Add	796.02	
For Parallel Blade Damper, Add	244.93	
23 33 13 13-0132 EA 48" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	947.59	86.93
For Stainless Steel, Add	892.44	
For Parallel Blade Damper, Add	274.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0133 EA 48" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	1,018.62	92.00
For Stainless Steel, Add	964.81	
For Parallel Blade Damper, Add	296.86	
23 33 13 13-0134 EA 48" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	1,100.51	94.61
For Stainless Steel, Add	1,061.28	
For Parallel Blade Damper, Add	326.55	
23 33 13 13-0135 EA 48" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	1,173.04	102.29
For Stainless Steel, Add	1,125.62	
For Parallel Blade Damper, Add	346.34	
23 33 13 13-0136 EA 52" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	408.88	43.46
For Stainless Steel, Add	361.84	
For Parallel Blade Damper, Add	111.34	
23 33 13 13-0137 EA 52" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	441.28	46.08
For Stainless Steel, Add	393.98	
For Parallel Blade Damper, Add	121.22	
23 33 13 13-0138 EA 52" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	481.37	51.14
For Stainless Steel, Add	426.13	
For Parallel Blade Damper, Add	131.12	
23 33 13 13-0139 EA 52" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	502.92	56.21
For Stainless Steel, Add	434.17	
For Parallel Blade Damper, Add	133.59	
23 33 13 13-0140 EA 52" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	546.14	61.44
For Stainless Steel, Add	470.39	
For Parallel Blade Damper, Add	144.74	
23 33 13 13-0141 EA 52" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	589.31	66.50
For Stainless Steel, Add	506.55	
For Parallel Blade Damper, Add	155.86	
23 33 13 13-0142 EA 52" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	641.78	71.57
For Stainless Steel, Add	554.79	
For Parallel Blade Damper, Add	170.70	
23 33 13 13-0143 EA 52" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	694.24	76.80
For Stainless Steel, Add	603.02	
For Parallel Blade Damper, Add	185.54	
23 33 13 13-0144 EA 52" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	765.28	81.86
For Stainless Steel, Add	675.40	
For Parallel Blade Damper, Add	207.82	
23 33 13 13-0145 EA 52" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	854.80	86.93
For Stainless Steel, Add	771.81	
For Parallel Blade Damper, Add	237.48	
23 33 13 13-0146 EA 52" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	924.31	89.54
For Stainless Steel, Add	852.19	
For Parallel Blade Damper, Add	262.21	
23 33 13 13-0147 EA 52" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	1,012.43	92.00
For Stainless Steel, Add	956.76	
For Parallel Blade Damper, Add	294.39	
23 33 13 13-0148 EA 52" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	1,101.96	97.22
For Stainless Steel, Add	1,053.18	
For Parallel Blade Damper, Add	324.06	
23 33 13 13-0149 EA 52" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	1,173.04	102.29
For Stainless Steel, Add	1,125.62	
For Parallel Blade Damper, Add	346.34	
23 33 13 13-0150 EA 52" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	1,270.28	109.97
For Stainless Steel, Add	1,222.08	
For Parallel Blade Damper, Add	376.02	
23 33 13 13-0151 EA 52" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	1,347.49	115.03
For Stainless Steel, Add	1,302.51	
For Parallel Blade Damper, Add	400.77	
23 33 13 13-0152 EA 56" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	428.95	46.08
For Stainless Steel, Add	377.95	
For Parallel Blade Damper, Add	116.29	
23 33 13 13-0153 EA 56" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	475.18	51.14
For Stainless Steel, Add	418.08	
For Parallel Blade Damper, Add	128.64	
23 33 13 13-0154 EA 56" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	509.11	56.21
For Stainless Steel, Add	442.22	
For Parallel Blade Damper, Add	136.07	
23 33 13 13-0155 EA 56" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	530.62	61.44
For Stainless Steel, Add	450.22	
For Parallel Blade Damper, Add	138.53	
23 33 13 13-0156 EA 56" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	580.03	66.50
For Stainless Steel, Add	494.48	
For Parallel Blade Damper, Add	152.15	
23 33 13 13-0157 EA 56" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	629.40	71.57
For Stainless Steel, Add	538.69	
For Parallel Blade Damper, Add	165.75	
23 33 13 13-0158 EA 56" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	678.76	76.80
For Stainless Steel, Add	582.89	
For Parallel Blade Damper, Add	179.35	
23 33 13 13-0159 EA 56" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	728.13	81.86
For Stainless Steel, Add	627.11	
For Parallel Blade Damper, Add	192.96	
23 33 13 13-0160 EA 56" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation .....	817.70	86.93
For Stainless Steel, Add	723.58	
For Parallel Blade Damper, Add	222.64	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13	13-0161	EA	56" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	899.63	89.54
			<i>For Stainless Steel, Add</i>	820.11	
			<i>For Parallel Blade Damper, Add</i>	252.34	
23 33 13	13-0162	EA	56" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	975.33	92.00
			<i>For Stainless Steel, Add</i>	908.53	
			<i>For Parallel Blade Damper, Add</i>	279.55	
23 33 13	13-0163	EA	56" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,077.28	97.22
			<i>For Stainless Steel, Add</i>	1,021.10	
			<i>For Parallel Blade Damper, Add</i>	314.18	
23 33 13	13-0164	EA	56" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,166.84	102.29
			<i>For Stainless Steel, Add</i>	1,117.56	
			<i>For Parallel Blade Damper, Add</i>	343.86	
23 33 13	13-0165	EA	56" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,262.60	107.35
			<i>For Stainless Steel, Add</i>	1,222.08	
			<i>For Parallel Blade Damper, Add</i>	376.02	
23 33 13	13-0166	EA	56" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,339.83	112.58
			<i>For Stainless Steel, Add</i>	1,302.51	
			<i>For Parallel Blade Damper, Add</i>	400.77	
23 33 13	13-0167	EA	56" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,435.57	117.65
			<i>For Stainless Steel, Add</i>	1,407.03	
			<i>For Parallel Blade Damper, Add</i>	432.93	
23 33 13	13-0168	EA	56" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,531.33	122.71
			<i>For Stainless Steel, Add</i>	1,511.55	
			<i>For Parallel Blade Damper, Add</i>	465.09	
23 33 13	13-0169	EA	60" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	462.84	51.14
			<i>For Stainless Steel, Add</i>	402.04	
			<i>For Parallel Blade Damper, Add</i>	123.70	
23 33 13	13-0170	EA	60" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	509.11	56.21
			<i>For Stainless Steel, Add</i>	442.22	
			<i>For Parallel Blade Damper, Add</i>	136.07	
23 33 13	13-0171	EA	60" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	536.81	61.44
			<i>For Stainless Steel, Add</i>	458.26	
			<i>For Parallel Blade Damper, Add</i>	141.00	
23 33 13	13-0172	EA	60" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	558.40	66.50
			<i>For Stainless Steel, Add</i>	466.36	
			<i>For Parallel Blade Damper, Add</i>	143.50	
23 33 13	13-0173	EA	60" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	610.87	71.57
			<i>For Stainless Steel, Add</i>	514.61	
			<i>For Parallel Blade Damper, Add</i>	158.34	
23 33 13	13-0174	EA	60" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	663.29	76.80
			<i>For Stainless Steel, Add</i>	562.78	
			<i>For Parallel Blade Damper, Add</i>	173.16	
23 33 13	13-0175	EA	60" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	718.85	81.86
			<i>For Stainless Steel, Add</i>	615.04	
			<i>For Parallel Blade Damper, Add</i>	189.24	
23 33 13	13-0176	EA	60" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	774.41	86.93
			<i>For Stainless Steel, Add</i>	667.30	
			<i>For Parallel Blade Damper, Add</i>	205.32	
23 33 13	13-0177	EA	60" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	862.48	89.54
			<i>For Stainless Steel, Add</i>	771.81	
			<i>For Parallel Blade Damper, Add</i>	237.48	
23 33 13	13-0178	EA	60" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	944.37	92.00
			<i>For Stainless Steel, Add</i>	868.28	
			<i>For Parallel Blade Damper, Add</i>	267.16	
23 33 13	13-0179	EA	60" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,040.17	97.22
			<i>For Stainless Steel, Add</i>	972.86	
			<i>For Parallel Blade Damper, Add</i>	299.34	
23 33 13	13-0180	EA	60" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,135.93	102.29
			<i>For Stainless Steel, Add</i>	1,077.38	
			<i>For Parallel Blade Damper, Add</i>	331.50	
23 33 13	13-0181	EA	60" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,213.12	107.35
			<i>For Stainless Steel, Add</i>	1,157.75	
			<i>For Parallel Blade Damper, Add</i>	356.23	
23 33 13	13-0182	EA	60" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,327.41	112.58
			<i>For Stainless Steel, Add</i>	1,286.36	
			<i>For Parallel Blade Damper, Add</i>	395.80	
23 33 13	13-0183	EA	60" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,429.34	117.65
			<i>For Stainless Steel, Add</i>	1,398.93	
			<i>For Parallel Blade Damper, Add</i>	430.44	
23 33 13	13-0184	EA	60" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,531.33	122.71
			<i>For Stainless Steel, Add</i>	1,511.55	
			<i>For Parallel Blade Damper, Add</i>	465.09	
23 33 13	13-0185	EA	60" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,620.81	127.94
			<i>For Stainless Steel, Add</i>	1,607.91	
			<i>For Parallel Blade Damper, Add</i>	494.74	
23 33 13	13-0186	EA	60" x 60" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	1,710.46	133.01
			<i>For Stainless Steel, Add</i>	1,704.48	
			<i>For Parallel Blade Damper, Add</i>	524.46	

**23 33 13 16 Fire Dampers (23 33 13)**

**23 33 13 16-0001 Fire Dampers (23 33 13 16)**





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0002 SF Curtain Type, Vertical, Fire Damper .....	150.35	16.59
For Smoke Damper, Add	85.37	
For Spring Activated Horizontal Mount Operation, Add	22.60	
For Dynamic Damper, Add	54.23	
For 3 Hour Rated, Add	30.13	
23 33 13 16-0003 SF Louver Type, Vertical, Fire Damper .....	205.14	16.59
For Smoke Damper, Add	131.94	
For Spring Activated Horizontal Mount Operation, Add	34.92	
For Dynamic Damper, Add	83.82	
For 3 Hour Rated, Add	46.57	
<b>23 33 13 16-0004 Folding Curtain Fire Dampers</b> <small>(23 33 13 16)</small>		
Note: UL Listed. Air stream 22 gauge galvanized steel construction with fusible link 160 F, gravity actuated for vertical mount 1-1/2 hour fire rating. Damper blades and damper frame are in the air stream.		
23 33 13 16-0005 EA 6" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	80.99	17.05
For Spring Activated Horizontal Mount Operation, Add	6.72	
For Dynamic Damper, Add	16.12	
For 3 Hour Rated, Add	8.96	
For Cap Of Damper Blades Outside Air Stream, Add	7.46	
23 33 13 16-0006 EA 8" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	85.41	17.81
For Spring Activated Horizontal Mount Operation, Add	7.19	
For Dynamic Damper, Add	17.26	
For 3 Hour Rated, Add	9.59	
For Cap Of Damper Blades Outside Air Stream, Add	7.99	
23 33 13 16-0007 EA 8" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	87.86	17.97
For Spring Activated Horizontal Mount Operation, Add	7.67	
For Dynamic Damper, Add	18.41	
For 3 Hour Rated, Add	10.23	
For Cap Of Damper Blades Outside Air Stream, Add	8.53	
23 33 13 16-0008 EA 10" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	87.86	17.97
For Spring Activated Horizontal Mount Operation, Add	7.67	
For Dynamic Damper, Add	18.41	
For 3 Hour Rated, Add	10.23	
For Cap Of Damper Blades Outside Air Stream, Add	8.53	
23 33 13 16-0009 EA 10" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	91.53	18.44
For Spring Activated Horizontal Mount Operation, Add	8.15	
For Dynamic Damper, Add	19.56	
For 3 Hour Rated, Add	10.87	
For Cap Of Damper Blades Outside Air Stream, Add	9.06	
23 33 13 16-0010 EA 10" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	101.93	20.43
For Spring Activated Horizontal Mount Operation, Add	9.11	
For Dynamic Damper, Add	21.86	
For 3 Hour Rated, Add	12.15	
For Cap Of Damper Blades Outside Air Stream, Add	10.12	
23 33 13 16-0011 EA 12" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	91.53	18.44
For Spring Activated Horizontal Mount Operation, Add	8.15	
For Dynamic Damper, Add	19.56	
For 3 Hour Rated, Add	10.87	
For Cap Of Damper Blades Outside Air Stream, Add	9.06	
23 33 13 16-0012 EA 12" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	98.85	19.50
For Spring Activated Horizontal Mount Operation, Add	9.11	
For Dynamic Damper, Add	21.86	
For 3 Hour Rated, Add	12.15	
For Cap Of Damper Blades Outside Air Stream, Add	10.12	
23 33 13 16-0013 EA 12" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	104.06	20.43
For Spring Activated Horizontal Mount Operation, Add	9.59	
For Dynamic Damper, Add	23.01	
For 3 Hour Rated, Add	12.79	
For Cap Of Damper Blades Outside Air Stream, Add	10.66	
23 33 13 16-0014 EA 12" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	113.88	23.04
For Spring Activated Horizontal Mount Operation, Add	10.07	
For Dynamic Damper, Add	24.17	
For 3 Hour Rated, Add	13.43	
For Cap Of Damper Blades Outside Air Stream, Add	11.19	
23 33 13 16-0015 EA 14" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	97.79	19.50
For Spring Activated Horizontal Mount Operation, Add	8.87	
For Dynamic Damper, Add	21.29	
For 3 Hour Rated, Add	11.83	
For Cap Of Damper Blades Outside Air Stream, Add	9.86	
23 33 13 16-0016 EA 14" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	104.06	20.43
For Spring Activated Horizontal Mount Operation, Add	9.59	
For Dynamic Damper, Add	23.01	
For 3 Hour Rated, Add	12.79	
For Cap Of Damper Blades Outside Air Stream, Add	10.66	
23 33 13 16-0017 EA 14" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	109.26	21.50
For Spring Activated Horizontal Mount Operation, Add	10.07	
For Dynamic Damper, Add	24.17	
For 3 Hour Rated, Add	13.43	
For Cap Of Damper Blades Outside Air Stream, Add	11.19	
23 33 13 16-0018 EA 14" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	116.02	23.04
For Spring Activated Horizontal Mount Operation, Add	10.55	
For Dynamic Damper, Add	25.33	
For 3 Hour Rated, Add	14.07	
For Cap Of Damper Blades Outside Air Stream, Add	11.73	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0019	EA		14" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	129.03	25.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.75	
			<i>For Dynamic Damper, Add</i>	28.20	
			<i>For 3 Hour Rated, Add</i>	15.67	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.06	
23 33 13 16-0020	EA		16" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	104.06	20.43
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	9.59	
			<i>For Dynamic Damper, Add</i>	23.01	
			<i>For 3 Hour Rated, Add</i>	12.79	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	10.66	
23 33 13 16-0021	EA		16" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	110.80	21.96
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.07	
			<i>For Dynamic Damper, Add</i>	24.17	
			<i>For 3 Hour Rated, Add</i>	13.43	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.19	
23 33 13 16-0022	EA		16" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	119.08	24.11
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.55	
			<i>For Dynamic Damper, Add</i>	25.33	
			<i>For 3 Hour Rated, Add</i>	14.07	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.73	
23 33 13 16-0023	EA		16" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	125.81	25.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.03	
			<i>For Dynamic Damper, Add</i>	26.47	
			<i>For 3 Hour Rated, Add</i>	14.70	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.25	
23 33 13 16-0024	EA		16" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	138.84	28.11
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.23	
			<i>For Dynamic Damper, Add</i>	29.35	
			<i>For 3 Hour Rated, Add</i>	16.31	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.59	
23 33 13 16-0025	EA		16" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	151.85	30.72
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.43	
			<i>For Dynamic Damper, Add</i>	32.23	
			<i>For 3 Hour Rated, Add</i>	17.91	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.92	
23 33 13 16-0026	EA		18" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	109.26	21.50
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.07	
			<i>For Dynamic Damper, Add</i>	24.17	
			<i>For 3 Hour Rated, Add</i>	13.43	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.19	
23 33 13 16-0027	EA		18" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	117.07	23.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.79	
			<i>For Dynamic Damper, Add</i>	25.89	
			<i>For 3 Hour Rated, Add</i>	14.39	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.99	
23 33 13 16-0028	EA		18" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	127.97	25.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.51	
			<i>For Dynamic Damper, Add</i>	27.63	
			<i>For 3 Hour Rated, Add</i>	15.35	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.79	
23 33 13 16-0029	EA		18" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	140.98	28.11
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.71	
			<i>For Dynamic Damper, Add</i>	30.51	
			<i>For 3 Hour Rated, Add</i>	16.95	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	14.13	
23 33 13 16-0030	EA		18" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	152.91	30.72
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.67	
			<i>For Dynamic Damper, Add</i>	32.81	
			<i>For 3 Hour Rated, Add</i>	18.23	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	15.19	
23 33 13 16-0031	EA		18" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	165.92	33.17
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.87	
			<i>For Dynamic Damper, Add</i>	35.68	
			<i>For 3 Hour Rated, Add</i>	19.82	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	16.52	
23 33 13 16-0032	EA		18" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	176.80	35.78
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.59	
			<i>For Dynamic Damper, Add</i>	37.41	
			<i>For 3 Hour Rated, Add</i>	20.78	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.32	
23 33 13 16-0033	EA		20" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	116.02	23.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	10.55	
			<i>For Dynamic Damper, Add</i>	25.33	
			<i>For 3 Hour Rated, Add</i>	14.07	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	11.73	
23 33 13 16-0034	EA		20" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	127.95	25.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	11.51	
			<i>For Dynamic Damper, Add</i>	27.62	
			<i>For 3 Hour Rated, Add</i>	15.35	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	12.79	
23 33 13 16-0035	EA		20" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	139.90	28.11
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	12.47	
			<i>For Dynamic Damper, Add</i>	29.93	
			<i>For 3 Hour Rated, Add</i>	16.63	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	13.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0036 EA 20" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	156.12	30.72
For Spring Activated Horizontal Mount Operation, Add	14.39	
For Dynamic Damper, Add	34.54	
For 3 Hour Rated, Add	19.19	
For Cap Of Damper Blades Outside Air Stream, Add	15.99	
23 33 13 16-0037 EA 20" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	167.00	33.17
For Spring Activated Horizontal Mount Operation, Add	15.11	
For Dynamic Damper, Add	36.27	
For 3 Hour Rated, Add	20.15	
For Cap Of Damper Blades Outside Air Stream, Add	16.79	
23 33 13 16-0038 EA 20" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	177.87	35.78
For Spring Activated Horizontal Mount Operation, Add	15.83	
For Dynamic Damper, Add	37.99	
For 3 Hour Rated, Add	21.11	
For Cap Of Damper Blades Outside Air Stream, Add	17.59	
23 33 13 16-0039 EA 20" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	189.81	38.40
For Spring Activated Horizontal Mount Operation, Add	16.79	
For Dynamic Damper, Add	40.29	
For 3 Hour Rated, Add	22.38	
For Cap Of Damper Blades Outside Air Stream, Add	18.65	
23 33 13 16-0040 EA 20" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	201.72	40.85
For Spring Activated Horizontal Mount Operation, Add	17.74	
For Dynamic Damper, Add	42.58	
For 3 Hour Rated, Add	23.66	
For Cap Of Damper Blades Outside Air Stream, Add	19.72	
23 33 13 16-0041 EA 24" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	130.08	25.65
For Spring Activated Horizontal Mount Operation, Add	11.99	
For Dynamic Damper, Add	28.77	
For 3 Hour Rated, Add	15.98	
For Cap Of Damper Blades Outside Air Stream, Add	13.32	
23 33 13 16-0042 EA 24" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	144.17	28.11
For Spring Activated Horizontal Mount Operation, Add	13.43	
For Dynamic Damper, Add	32.23	
For 3 Hour Rated, Add	17.91	
For Cap Of Damper Blades Outside Air Stream, Add	14.92	
23 33 13 16-0043 EA 24" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	156.12	30.72
For Spring Activated Horizontal Mount Operation, Add	14.39	
For Dynamic Damper, Add	34.54	
For 3 Hour Rated, Add	19.19	
For Cap Of Damper Blades Outside Air Stream, Add	15.99	
23 33 13 16-0044 EA 24" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.19	33.17
For Spring Activated Horizontal Mount Operation, Add	15.83	
For Dynamic Damper, Add	37.99	
For 3 Hour Rated, Add	21.11	
For Cap Of Damper Blades Outside Air Stream, Add	17.59	
23 33 13 16-0045 EA 24" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	181.07	35.78
For Spring Activated Horizontal Mount Operation, Add	16.55	
For Dynamic Damper, Add	39.72	
For 3 Hour Rated, Add	22.07	
For Cap Of Damper Blades Outside Air Stream, Add	18.39	
23 33 13 16-0046 EA 24" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	191.94	38.40
For Spring Activated Horizontal Mount Operation, Add	17.27	
For Dynamic Damper, Add	41.44	
For 3 Hour Rated, Add	23.02	
For Cap Of Damper Blades Outside Air Stream, Add	19.19	
23 33 13 16-0047 EA 24" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	205.99	40.85
For Spring Activated Horizontal Mount Operation, Add	18.70	
For Dynamic Damper, Add	44.89	
For 3 Hour Rated, Add	24.94	
For Cap Of Damper Blades Outside Air Stream, Add	20.78	
23 33 13 16-0048 EA 24" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	227.74	46.08
For Spring Activated Horizontal Mount Operation, Add	20.14	
For Dynamic Damper, Add	48.34	
For 3 Hour Rated, Add	26.86	
For Cap Of Damper Blades Outside Air Stream, Add	22.38	
23 33 13 16-0049 EA 24" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	251.64	51.14
For Spring Activated Horizontal Mount Operation, Add	22.06	
For Dynamic Damper, Add	52.95	
For 3 Hour Rated, Add	29.42	
For Cap Of Damper Blades Outside Air Stream, Add	24.52	
23 33 13 16-0050 EA 24" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	144.17	28.11
For Spring Activated Horizontal Mount Operation, Add	13.43	
For Dynamic Damper, Add	32.23	
For 3 Hour Rated, Add	17.91	
For Cap Of Damper Blades Outside Air Stream, Add	14.92	
23 33 13 16-0051 EA 28" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	156.12	30.72
For Spring Activated Horizontal Mount Operation, Add	14.39	
For Dynamic Damper, Add	34.54	
For 3 Hour Rated, Add	19.19	
For Cap Of Damper Blades Outside Air Stream, Add	15.99	
23 33 13 16-0052 EA 28" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	170.19	33.17
For Spring Activated Horizontal Mount Operation, Add	15.83	
For Dynamic Damper, Add	37.99	
For 3 Hour Rated, Add	21.11	
For Cap Of Damper Blades Outside Air Stream, Add	17.59	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0053	EA		28" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	182.13	35.78
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.79	
			<i>For Dynamic Damper, Add</i>	40.29	
			<i>For 3 Hour Rated, Add</i>	22.38	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.65	
23 33 13 16-0054	EA		28" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	195.14	38.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	17.99	
			<i>For Dynamic Damper, Add</i>	43.17	
			<i>For 3 Hour Rated, Add</i>	23.98	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	19.99	
23 33 13 16-0055	EA		28" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	208.11	40.85
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	19.18	
			<i>For Dynamic Damper, Add</i>	46.04	
			<i>For 3 Hour Rated, Add</i>	25.58	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	21.31	
23 33 13 16-0056	EA		28" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	229.87	46.08
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.62	
			<i>For Dynamic Damper, Add</i>	49.49	
			<i>For 3 Hour Rated, Add</i>	27.50	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.91	
23 33 13 16-0057	EA		28" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	251.64	51.14
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.06	
			<i>For Dynamic Damper, Add</i>	52.95	
			<i>For 3 Hour Rated, Add</i>	29.42	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.52	
23 33 13 16-0058	EA		28" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	272.10	53.76
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	24.94	
			<i>For Dynamic Damper, Add</i>	59.85	
			<i>For 3 Hour Rated, Add</i>	33.25	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	27.71	
23 33 13 16-0059	EA		28" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	298.12	58.82
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	27.34	
			<i>For Dynamic Damper, Add</i>	65.61	
			<i>For 3 Hour Rated, Add</i>	36.45	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	30.38	
23 33 13 16-0060	EA		32" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	162.51	30.72
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.83	
			<i>For Dynamic Damper, Add</i>	37.99	
			<i>For 3 Hour Rated, Add</i>	21.11	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	17.59	
23 33 13 16-0061	EA		32" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	172.31	33.17
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.31	
			<i>For Dynamic Damper, Add</i>	39.13	
			<i>For 3 Hour Rated, Add</i>	21.74	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.12	
23 33 13 16-0062	EA		32" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	182.13	35.78
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.79	
			<i>For Dynamic Damper, Add</i>	40.29	
			<i>For 3 Hour Rated, Add</i>	22.38	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.65	
23 33 13 16-0063	EA		32" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	194.06	38.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	17.74	
			<i>For Dynamic Damper, Add</i>	42.58	
			<i>For 3 Hour Rated, Add</i>	23.66	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	19.72	
23 33 13 16-0064	EA		32" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	208.52	40.85
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	19.27	
			<i>For Dynamic Damper, Add</i>	46.26	
			<i>For 3 Hour Rated, Add</i>	25.70	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	21.42	
23 33 13 16-0065	EA		32" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	229.87	46.08
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.62	
			<i>For Dynamic Damper, Add</i>	49.49	
			<i>For 3 Hour Rated, Add</i>	27.50	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.91	
23 33 13 16-0066	EA		32" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	253.78	51.14
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.55	
			<i>For Dynamic Damper, Add</i>	54.11	
			<i>For 3 Hour Rated, Add</i>	30.06	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	25.05	
23 33 13 16-0067	EA		32" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	277.66	56.21
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	24.46	
			<i>For Dynamic Damper, Add</i>	58.71	
			<i>For 3 Hour Rated, Add</i>	32.62	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	27.18	
23 33 13 16-0068	EA		32" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	298.12	58.82
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	27.34	
			<i>For Dynamic Damper, Add</i>	65.61	
			<i>For 3 Hour Rated, Add</i>	36.45	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	30.38	
23 33 13 16-0069	EA		32" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	325.35	62.98
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	30.70	
			<i>For Dynamic Damper, Add</i>	73.67	
			<i>For 3 Hour Rated, Add</i>	40.93	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	34.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0070 EA 32" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	353.14	66.50
<i>For Spring Activated Horizontal Mount Operation, Add</i>	34.53	
<i>For Dynamic Damper, Add</i>	82.88	
<i>For 3 Hour Rated, Add</i>	46.04	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	38.37	
23 33 13 16-0071 EA 36" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	176.58	33.17
<i>For Spring Activated Horizontal Mount Operation, Add</i>	17.27	
<i>For Dynamic Damper, Add</i>	41.44	
<i>For 3 Hour Rated, Add</i>	23.02	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	19.19	
23 33 13 16-0072 EA 36" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	188.51	35.78
<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.22	
<i>For Dynamic Damper, Add</i>	43.73	
<i>For 3 Hour Rated, Add</i>	24.30	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.25	
23 33 13 16-0073 EA 36" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	200.45	38.40
<i>For Spring Activated Horizontal Mount Operation, Add</i>	19.18	
<i>For Dynamic Damper, Add</i>	46.04	
<i>For 3 Hour Rated, Add</i>	25.58	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	21.31	
23 33 13 16-0074 EA 36" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	214.51	40.85
<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.62	
<i>For Dynamic Damper, Add</i>	49.49	
<i>For 3 Hour Rated, Add</i>	27.50	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.91	
23 33 13 16-0075 EA 36" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	233.09	46.08
<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.35	
<i>For Dynamic Damper, Add</i>	51.23	
<i>For 3 Hour Rated, Add</i>	28.46	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	23.72	
23 33 13 16-0076 EA 36" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	243.96	48.53
<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.06	
<i>For Dynamic Damper, Add</i>	52.95	
<i>For 3 Hour Rated, Add</i>	29.42	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.52	
23 33 13 16-0077 EA 36" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	277.66	56.21
<i>For Spring Activated Horizontal Mount Operation, Add</i>	24.46	
<i>For Dynamic Damper, Add</i>	58.71	
<i>For 3 Hour Rated, Add</i>	32.62	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	27.18	
23 33 13 16-0078 EA 36" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	303.66	61.44
<i>For Spring Activated Horizontal Mount Operation, Add</i>	26.86	
<i>For Dynamic Damper, Add</i>	64.45	
<i>For 3 Hour Rated, Add</i>	35.81	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	29.84	
23 33 13 16-0079 EA 36" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	265.96	63.43
<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.99	
<i>For Dynamic Damper, Add</i>	40.78	
<i>For 3 Hour Rated, Add</i>	22.66	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	18.88	
23 33 13 16-0080 EA 36" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	353.49	68.04
<i>For Spring Activated Horizontal Mount Operation, Add</i>	33.57	
<i>For Dynamic Damper, Add</i>	80.57	
<i>For 3 Hour Rated, Add</i>	44.76	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	37.30	
23 33 13 16-0081 EA 36" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	379.14	71.57
<i>For Spring Activated Horizontal Mount Operation, Add</i>	36.93	
<i>For Dynamic Damper, Add</i>	88.62	
<i>For 3 Hour Rated, Add</i>	49.24	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	41.03	
23 33 13 16-0082 EA 36" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	403.87	74.18
<i>For Spring Activated Horizontal Mount Operation, Add</i>	40.76	
<i>For Dynamic Damper, Add</i>	97.83	
<i>For 3 Hour Rated, Add</i>	54.35	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	45.29	
23 33 13 16-0083 EA 40" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	186.38	38.40
<i>For Spring Activated Horizontal Mount Operation, Add</i>	17.74	
<i>For Dynamic Damper, Add</i>	42.58	
<i>For 3 Hour Rated, Add</i>	23.66	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	19.72	
23 33 13 16-0084 EA 40" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	202.58	40.85
<i>For Spring Activated Horizontal Mount Operation, Add</i>	19.66	
<i>For Dynamic Damper, Add</i>	47.19	
<i>For 3 Hour Rated, Add</i>	26.21	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	21.85	
23 33 13 16-0085 EA 40" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	212.38	43.46
<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.14	
<i>For Dynamic Damper, Add</i>	48.34	
<i>For 3 Hour Rated, Add</i>	26.86	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.38	
23 33 13 16-0086 EA 40" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	222.19	46.08
<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.62	
<i>For Dynamic Damper, Add</i>	49.49	
<i>For 3 Hour Rated, Add</i>	27.50	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.91	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0087	EA		40" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	245.02	48.53
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.30	
			<i>For Dynamic Damper, Add</i>	53.52	
			<i>For 3 Hour Rated, Add</i>	29.74	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.78	
23 33 13 16-0088	EA		40" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	260.17	51.14
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	23.98	
			<i>For Dynamic Damper, Add</i>	57.56	
			<i>For 3 Hour Rated, Add</i>	31.98	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	26.65	
23 33 13 16-0089	EA		40" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	291.73	58.82
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	25.90	
			<i>For Dynamic Damper, Add</i>	62.16	
			<i>For 3 Hour Rated, Add</i>	34.53	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	28.78	
23 33 13 16-0090	EA		40" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	315.62	63.89
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	27.82	
			<i>For Dynamic Damper, Add</i>	66.77	
			<i>For 3 Hour Rated, Add</i>	37.09	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	30.91	
23 33 13 16-0091	EA		40" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	340.71	68.04
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	30.70	
			<i>For Dynamic Damper, Add</i>	73.67	
			<i>For 3 Hour Rated, Add</i>	40.93	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	34.11	
23 33 13 16-0092	EA		40" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	374.89	71.57
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	35.97	
			<i>For Dynamic Damper, Add</i>	86.33	
			<i>For 3 Hour Rated, Add</i>	47.96	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	39.97	
23 33 13 16-0093	EA		40" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	399.95	75.72
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	38.85	
			<i>For Dynamic Damper, Add</i>	93.23	
			<i>For 3 Hour Rated, Add</i>	51.80	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	43.16	
23 33 13 16-0094	EA		40" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	429.57	77.71
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	44.12	
			<i>For Dynamic Damper, Add</i>	105.90	
			<i>For 3 Hour Rated, Add</i>	58.83	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	49.03	
23 33 13 16-0095	EA		40" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	463.17	81.86
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	48.92	
			<i>For Dynamic Damper, Add</i>	117.41	
			<i>For 3 Hour Rated, Add</i>	65.23	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	54.36	
23 33 13 16-0096	EA		44" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	198.33	38.40
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.70	
			<i>For Dynamic Damper, Add</i>	44.89	
			<i>For 3 Hour Rated, Add</i>	24.94	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	20.78	
23 33 13 16-0097	EA		44" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	214.51	40.85
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.62	
			<i>For Dynamic Damper, Add</i>	49.49	
			<i>For 3 Hour Rated, Add</i>	27.50	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.91	
23 33 13 16-0098	EA		44" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	228.60	43.46
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.06	
			<i>For Dynamic Damper, Add</i>	52.95	
			<i>For 3 Hour Rated, Add</i>	29.42	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.52	
23 33 13 16-0099	EA		44" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	238.42	46.08
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.55	
			<i>For Dynamic Damper, Add</i>	54.11	
			<i>For 3 Hour Rated, Add</i>	30.06	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	25.05	
23 33 13 16-0100	EA		44" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	254.62	48.53
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	24.46	
			<i>For Dynamic Damper, Add</i>	58.71	
			<i>For 3 Hour Rated, Add</i>	32.62	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	27.18	
23 33 13 16-0101	EA		44" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	270.83	51.14
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	26.38	
			<i>For Dynamic Damper, Add</i>	63.32	
			<i>For 3 Hour Rated, Add</i>	35.18	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	29.31	
23 33 13 16-0102	EA		44" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	312.21	61.44
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	28.78	
			<i>For Dynamic Damper, Add</i>	69.07	
			<i>For 3 Hour Rated, Add</i>	38.37	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	31.98	
23 33 13 16-0103	EA		44" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	338.21	66.50
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	31.17	
			<i>For Dynamic Damper, Add</i>	74.82	
			<i>For 3 Hour Rated, Add</i>	41.57	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	34.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0104 EA 44" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	374.89	71.57
<i>For Spring Activated Horizontal Mount Operation, Add</i>	35.97	
<i>For Dynamic Damper, Add</i>	86.33	
<i>For 3 Hour Rated, Add</i>	47.96	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	39.97	
23 33 13 16-0105 EA 44" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	409.44	76.80
<i>For Spring Activated Horizontal Mount Operation, Add</i>	40.29	
<i>For Dynamic Damper, Add</i>	96.69	
<i>For 3 Hour Rated, Add</i>	53.72	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	44.77	
23 33 13 16-0106 EA 44" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	446.10	81.86
<i>For Spring Activated Horizontal Mount Operation, Add</i>	45.08	
<i>For Dynamic Damper, Add</i>	108.19	
<i>For 3 Hour Rated, Add</i>	60.11	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	50.09	
23 33 13 16-0107 EA 44" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	472.96	84.32
<i>For Spring Activated Horizontal Mount Operation, Add</i>	49.40	
<i>For Dynamic Damper, Add</i>	118.55	
<i>For 3 Hour Rated, Add</i>	65.86	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	54.89	
23 33 13 16-0108 EA 44" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	499.83	86.93
<i>For Spring Activated Horizontal Mount Operation, Add</i>	53.71	
<i>For Dynamic Damper, Add</i>	128.91	
<i>For 3 Hour Rated, Add</i>	71.62	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	59.68	
23 33 13 16-0109 EA 44" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	526.71	89.54
<i>For Spring Activated Horizontal Mount Operation, Add</i>	58.03	
<i>For Dynamic Damper, Add</i>	139.28	
<i>For 3 Hour Rated, Add</i>	77.38	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	64.48	
23 33 13 16-0110 EA 48" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	212.38	40.85
<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.14	
<i>For Dynamic Damper, Add</i>	48.34	
<i>For 3 Hour Rated, Add</i>	26.86	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	22.38	
23 33 13 16-0111 EA 48" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	228.60	43.46
<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.06	
<i>For Dynamic Damper, Add</i>	52.95	
<i>For 3 Hour Rated, Add</i>	29.42	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	24.52	
23 33 13 16-0112 EA 48" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	238.42	46.08
<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.55	
<i>For Dynamic Damper, Add</i>	54.11	
<i>For 3 Hour Rated, Add</i>	30.06	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	25.05	
23 33 13 16-0113 EA 48" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	260.17	51.14
<i>For Spring Activated Horizontal Mount Operation, Add</i>	23.98	
<i>For Dynamic Damper, Add</i>	57.56	
<i>For 3 Hour Rated, Add</i>	31.98	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	26.65	
23 33 13 16-0114 EA 48" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	284.05	56.21
<i>For Spring Activated Horizontal Mount Operation, Add</i>	25.90	
<i>For Dynamic Damper, Add</i>	62.16	
<i>For 3 Hour Rated, Add</i>	34.53	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	28.78	
23 33 13 16-0115 EA 48" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	307.94	61.44
<i>For Spring Activated Horizontal Mount Operation, Add</i>	27.82	
<i>For Dynamic Damper, Add</i>	66.77	
<i>For 3 Hour Rated, Add</i>	37.09	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	30.91	
23 33 13 16-0116 EA 48" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	336.09	66.50
<i>For Spring Activated Horizontal Mount Operation, Add</i>	30.70	
<i>For Dynamic Damper, Add</i>	73.67	
<i>For 3 Hour Rated, Add</i>	40.93	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	34.11	
23 33 13 16-0117 EA 48" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	364.23	71.57
<i>For Spring Activated Horizontal Mount Operation, Add</i>	33.57	
<i>For Dynamic Damper, Add</i>	80.57	
<i>For 3 Hour Rated, Add</i>	44.76	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	37.30	
23 33 13 16-0118 EA 48" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	398.78	76.80
<i>For Spring Activated Horizontal Mount Operation, Add</i>	37.89	
<i>For Dynamic Damper, Add</i>	90.94	
<i>For 3 Hour Rated, Add</i>	50.52	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	42.10	
23 33 13 16-0119 EA 48" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	437.57	81.86
<i>For Spring Activated Horizontal Mount Operation, Add</i>	43.16	
<i>For Dynamic Damper, Add</i>	103.59	
<i>For 3 Hour Rated, Add</i>	57.55	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	47.96	
23 33 13 16-0120 EA 48" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	464.46	84.32
<i>For Spring Activated Horizontal Mount Operation, Add</i>	47.48	
<i>For Dynamic Damper, Add</i>	113.96	
<i>For 3 Hour Rated, Add</i>	63.31	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	52.76	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0121	EA		48" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	497.69	86.93
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	53.23	
			<i>For Dynamic Damper, Add</i>	127.76	
			<i>For 3 Hour Rated, Add</i>	70.98	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	59.15	
23 33 13 16-0122	EA		48" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	532.26	92.00
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	57.56	
			<i>For Dynamic Damper, Add</i>	138.13	
			<i>For 3 Hour Rated, Add</i>	76.74	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	63.95	
23 33 13 16-0123	EA		48" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	565.51	94.61
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	63.31	
			<i>For Dynamic Damper, Add</i>	151.94	
			<i>For 3 Hour Rated, Add</i>	84.41	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	70.34	
23 33 13 16-0124	EA		48" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	605.60	102.29
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	67.14	
			<i>For Dynamic Damper, Add</i>	161.15	
			<i>For 3 Hour Rated, Add</i>	89.53	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	74.61	
23 33 13 16-0125	EA		52" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	226.47	43.46
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	21.58	
			<i>For Dynamic Damper, Add</i>	51.80	
			<i>For 3 Hour Rated, Add</i>	28.78	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	23.98	
23 33 13 16-0126	EA		52" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	242.67	46.08
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	23.50	
			<i>For Dynamic Damper, Add</i>	56.40	
			<i>For 3 Hour Rated, Add</i>	31.34	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	26.11	
23 33 13 16-0127	EA		52" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	266.56	51.14
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	25.42	
			<i>For Dynamic Damper, Add</i>	61.01	
			<i>For 3 Hour Rated, Add</i>	33.89	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	28.25	
23 33 13 16-0128	EA		52" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	284.05	56.21
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	25.90	
			<i>For Dynamic Damper, Add</i>	62.16	
			<i>For 3 Hour Rated, Add</i>	34.53	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	28.78	
23 33 13 16-0129	EA		52" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	309.01	61.44
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	28.06	
			<i>For Dynamic Damper, Add</i>	67.34	
			<i>For 3 Hour Rated, Add</i>	37.41	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	31.18	
23 33 13 16-0130	EA		52" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	333.96	66.50
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	30.22	
			<i>For Dynamic Damper, Add</i>	72.52	
			<i>For 3 Hour Rated, Add</i>	40.29	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	33.58	
23 33 13 16-0131	EA		52" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	362.11	71.57
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	33.10	
			<i>For Dynamic Damper, Add</i>	79.43	
			<i>For 3 Hour Rated, Add</i>	44.13	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	36.77	
23 33 13 16-0132	EA		52" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	390.25	76.80
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	35.97	
			<i>For Dynamic Damper, Add</i>	86.33	
			<i>For 3 Hour Rated, Add</i>	47.96	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	39.97	
23 33 13 16-0133	EA		52" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	424.80	81.86
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	40.29	
			<i>For Dynamic Damper, Add</i>	96.69	
			<i>For 3 Hour Rated, Add</i>	53.72	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	44.77	
23 33 13 16-0134	EA		52" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	465.73	86.93
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	46.04	
			<i>For Dynamic Damper, Add</i>	110.50	
			<i>For 3 Hour Rated, Add</i>	61.39	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	51.16	
23 33 13 16-0135	EA		52" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	494.71	89.54
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	50.83	
			<i>For Dynamic Damper, Add</i>	122.00	
			<i>For 3 Hour Rated, Add</i>	67.78	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	56.48	
23 33 13 16-0136	EA		52" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	530.12	92.00
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	57.07	
			<i>For Dynamic Damper, Add</i>	136.98	
			<i>For 3 Hour Rated, Add</i>	76.10	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	63.42	
23 33 13 16-0137	EA		52" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	571.04	97.22
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	62.82	
			<i>For Dynamic Damper, Add</i>	150.78	
			<i>For 3 Hour Rated, Add</i>	83.77	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	69.81	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0138 EA 52" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	605.60	102.29
<i>For Spring Activated Horizontal Mount Operation, Add</i>	67.14	
<i>For Dynamic Damper, Add</i>	161.15	
<i>For 3 Hour Rated, Add</i>	89.53	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	74.61	
23 33 13 16-0139 EA 52" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	654.22	109.97
<i>For Spring Activated Horizontal Mount Operation, Add</i>	72.90	
<i>For Dynamic Damper, Add</i>	174.96	
<i>For 3 Hour Rated, Add</i>	97.20	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	81.00	
23 33 13 16-0140 EA 52" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	690.88	115.03
<i>For Spring Activated Horizontal Mount Operation, Add</i>	77.70	
<i>For Dynamic Damper, Add</i>	186.47	
<i>For 3 Hour Rated, Add</i>	103.60	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	86.33	
23 33 13 16-0141 EA 56" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	238.42	46.08
<i>For Spring Activated Horizontal Mount Operation, Add</i>	22.55	
<i>For Dynamic Damper, Add</i>	54.11	
<i>For 3 Hour Rated, Add</i>	30.06	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	25.05	
23 33 13 16-0142 EA 56" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	264.42	51.14
<i>For Spring Activated Horizontal Mount Operation, Add</i>	24.94	
<i>For Dynamic Damper, Add</i>	59.85	
<i>For 3 Hour Rated, Add</i>	33.25	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	27.71	
23 33 13 16-0143 EA 56" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	286.19	56.21
<i>For Spring Activated Horizontal Mount Operation, Add</i>	26.38	
<i>For Dynamic Damper, Add</i>	63.32	
<i>For 3 Hour Rated, Add</i>	35.18	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	29.31	
23 33 13 16-0144 EA 56" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	303.66	61.44
<i>For Spring Activated Horizontal Mount Operation, Add</i>	26.86	
<i>For Dynamic Damper, Add</i>	64.45	
<i>For 3 Hour Rated, Add</i>	35.81	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	29.84	
23 33 13 16-0145 EA 56" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	330.76	66.50
<i>For Spring Activated Horizontal Mount Operation, Add</i>	29.50	
<i>For Dynamic Damper, Add</i>	70.79	
<i>For 3 Hour Rated, Add</i>	39.33	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	32.78	
23 33 13 16-0146 EA 56" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	357.84	71.57
<i>For Spring Activated Horizontal Mount Operation, Add</i>	32.13	
<i>For Dynamic Damper, Add</i>	77.12	
<i>For 3 Hour Rated, Add</i>	42.85	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	35.71	
23 33 13 16-0147 EA 56" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	384.92	76.80
<i>For Spring Activated Horizontal Mount Operation, Add</i>	34.77	
<i>For Dynamic Damper, Add</i>	83.45	
<i>For 3 Hour Rated, Add</i>	46.36	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	38.64	
23 33 13 16-0148 EA 56" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	412.00	81.86
<i>For Spring Activated Horizontal Mount Operation, Add</i>	37.41	
<i>For Dynamic Damper, Add</i>	89.78	
<i>For 3 Hour Rated, Add</i>	49.88	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	41.57	
23 33 13 16-0149 EA 56" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	452.93	86.93
<i>For Spring Activated Horizontal Mount Operation, Add</i>	43.16	
<i>For Dynamic Damper, Add</i>	103.59	
<i>For 3 Hour Rated, Add</i>	57.55	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	47.96	
23 33 13 16-0150 EA 56" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	486.21	89.54
<i>For Spring Activated Horizontal Mount Operation, Add</i>	48.92	
<i>For Dynamic Damper, Add</i>	117.41	
<i>For 3 Hour Rated, Add</i>	65.23	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	54.36	
23 33 13 16-0151 EA 56" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	517.33	92.00
<i>For Spring Activated Horizontal Mount Operation, Add</i>	54.20	
<i>For Dynamic Damper, Add</i>	130.07	
<i>For 3 Hour Rated, Add</i>	72.26	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	60.22	
23 33 13 16-0152 EA 56" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	562.53	97.22
<i>For Spring Activated Horizontal Mount Operation, Add</i>	60.91	
<i>For Dynamic Damper, Add</i>	146.18	
<i>For 3 Hour Rated, Add</i>	81.21	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	67.68	
23 33 13 16-0153 EA 56" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	603.47	102.29
<i>For Spring Activated Horizontal Mount Operation, Add</i>	66.67	
<i>For Dynamic Damper, Add</i>	160.00	
<i>For 3 Hour Rated, Add</i>	88.89	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	74.07	
23 33 13 16-0154 EA 56" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	646.54	107.35
<i>For Spring Activated Horizontal Mount Operation, Add</i>	72.90	
<i>For Dynamic Damper, Add</i>	174.96	
<i>For 3 Hour Rated, Add</i>	97.20	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	81.00	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0155	EA		56" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	683.22	112.58
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	77.70	
			<i>For Dynamic Damper, Add</i>	186.47	
			<i>For 3 Hour Rated, Add</i>	103.60	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	86.33	
23 33 13 16-0156	EA		56" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	726.27	117.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	83.93	
			<i>For Dynamic Damper, Add</i>	201.44	
			<i>For 3 Hour Rated, Add</i>	111.91	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	93.26	
23 33 13 16-0157	EA		56" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	769.34	122.71
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	90.17	
			<i>For Dynamic Damper, Add</i>	216.40	
			<i>For 3 Hour Rated, Add</i>	120.22	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	100.19	
23 33 13 16-0158	EA		60" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	260.17	51.14
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	23.98	
			<i>For Dynamic Damper, Add</i>	57.56	
			<i>For 3 Hour Rated, Add</i>	31.98	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	26.65	
23 33 13 16-0159	EA		60" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	286.19	56.21
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	26.38	
			<i>For Dynamic Damper, Add</i>	63.32	
			<i>For 3 Hour Rated, Add</i>	35.18	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	29.31	
23 33 13 16-0160	EA		60" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	305.80	61.44
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	27.34	
			<i>For Dynamic Damper, Add</i>	65.61	
			<i>For 3 Hour Rated, Add</i>	36.45	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	30.38	
23 33 13 16-0161	EA		60" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	323.30	66.50
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	27.82	
			<i>For Dynamic Damper, Add</i>	66.77	
			<i>For 3 Hour Rated, Add</i>	37.09	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	30.91	
23 33 13 16-0162	EA		60" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	351.45	71.57
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	30.70	
			<i>For Dynamic Damper, Add</i>	73.67	
			<i>For 3 Hour Rated, Add</i>	40.93	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	34.11	
23 33 13 16-0163	EA		60" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	379.59	76.80
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	33.57	
			<i>For Dynamic Damper, Add</i>	80.57	
			<i>For 3 Hour Rated, Add</i>	44.76	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	37.30	
23 33 13 16-0164	EA		60" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	408.81	81.86
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	36.69	
			<i>For Dynamic Damper, Add</i>	88.06	
			<i>For 3 Hour Rated, Add</i>	48.92	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	40.77	
23 33 13 16-0165	EA		60" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	438.02	86.93
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	39.81	
			<i>For Dynamic Damper, Add</i>	95.54	
			<i>For 3 Hour Rated, Add</i>	53.08	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	44.23	
23 33 13 16-0166	EA		60" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	473.41	89.54
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	46.04	
			<i>For Dynamic Damper, Add</i>	110.50	
			<i>For 3 Hour Rated, Add</i>	61.39	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	51.16	
23 33 13 16-0167	EA		60" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	506.66	92.00
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	51.80	
			<i>For Dynamic Damper, Add</i>	124.31	
			<i>For 3 Hour Rated, Add</i>	69.06	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	57.55	
23 33 13 16-0168	EA		60" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	549.75	97.22
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	58.03	
			<i>For Dynamic Damper, Add</i>	139.28	
			<i>For 3 Hour Rated, Add</i>	77.38	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	64.48	
23 33 13 16-0169	EA		60" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	592.82	102.29
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	64.27	
			<i>For Dynamic Damper, Add</i>	154.25	
			<i>For 3 Hour Rated, Add</i>	85.69	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	71.41	
23 33 13 16-0170	EA		60" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	629.49	107.35
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	69.06	
			<i>For Dynamic Damper, Add</i>	165.75	
			<i>For 3 Hour Rated, Add</i>	92.09	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	76.74	
23 33 13 16-0171	EA		60" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	678.94	112.58
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	76.73	
			<i>For Dynamic Damper, Add</i>	184.16	
			<i>For 3 Hour Rated, Add</i>	102.31	
			<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	85.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0172 EA 60" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	724.13	117.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	83.45	
<i>For Dynamic Damper, Add</i>	200.28	
<i>For 3 Hour Rated, Add</i>	111.27	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	92.72	
23 33 13 16-0173 EA 60" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	769.34	122.71
<i>For Spring Activated Horizontal Mount Operation, Add</i>	90.17	
<i>For Dynamic Damper, Add</i>	216.40	
<i>For 3 Hour Rated, Add</i>	120.22	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	100.19	
23 33 13 16-0174 EA 60" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	810.25	127.94
<i>For Spring Activated Horizontal Mount Operation, Add</i>	95.92	
<i>For Dynamic Damper, Add</i>	230.20	
<i>For 3 Hour Rated, Add</i>	127.89	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	106.57	
23 33 13 16-0175 EA 60" x 60" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	851.22	133.01
<i>For Spring Activated Horizontal Mount Operation, Add</i>	101.68	
<i>For Dynamic Damper, Add</i>	244.03	
<i>For 3 Hour Rated, Add</i>	135.57	
<i>For Cap Of Damper Blades Outside Air Stream, Add</i>	112.98	
<b>23 33 13 16-0176 Parallel Blade Louver Fire Damper</b> <small>(23 33 13 16)</small>		
Note: UL listed. 22 gauge galvanized steel construction with fusible link 160 F spring actuated 1-1/2 hour fire rating.		
23 33 13 16-0177 EA 6" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	112.90	17.05
<i>For Spring Activated Horizontal Mount Operation, Add</i>	13.90	
<i>For Dynamic Damper, Add</i>	33.35	
<i>For 3 Hour Rated, Add</i>	18.53	
23 33 13 16-0178 EA 8" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	117.85	17.81
<i>For Spring Activated Horizontal Mount Operation, Add</i>	14.49	
<i>For Dynamic Damper, Add</i>	34.78	
<i>For 3 Hour Rated, Add</i>	19.32	
23 33 13 16-0179 EA 8" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	120.83	17.97
<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.09	
<i>For Dynamic Damper, Add</i>	36.22	
<i>For 3 Hour Rated, Add</i>	20.12	
23 33 13 16-0180 EA 10" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	120.83	17.97
<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.09	
<i>For Dynamic Damper, Add</i>	36.22	
<i>For 3 Hour Rated, Add</i>	20.12	
23 33 13 16-0181 EA 10" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	125.05	18.44
<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.69	
<i>For Dynamic Damper, Add</i>	37.67	
<i>For 3 Hour Rated, Add</i>	20.93	
23 33 13 16-0182 EA 10" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	136.50	20.43
<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.89	
<i>For Dynamic Damper, Add</i>	40.53	
<i>For 3 Hour Rated, Add</i>	22.52	
23 33 13 16-0183 EA 12" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	125.05	18.44
<i>For Spring Activated Horizontal Mount Operation, Add</i>	15.69	
<i>For Dynamic Damper, Add</i>	37.67	
<i>For 3 Hour Rated, Add</i>	20.93	
23 33 13 16-0184 EA 12" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	133.42	19.50
<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.89	
<i>For Dynamic Damper, Add</i>	40.53	
<i>For 3 Hour Rated, Add</i>	22.52	
23 33 13 16-0185 EA 12" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	139.17	20.43
<i>For Spring Activated Horizontal Mount Operation, Add</i>	17.49	
<i>For Dynamic Damper, Add</i>	41.97	
<i>For 3 Hour Rated, Add</i>	23.32	
23 33 13 16-0186 EA 12" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	149.53	23.04
<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.09	
<i>For Dynamic Damper, Add</i>	43.42	
<i>For 3 Hour Rated, Add</i>	24.12	
23 33 13 16-0187 EA 14" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	132.10	19.50
<i>For Spring Activated Horizontal Mount Operation, Add</i>	16.59	
<i>For Dynamic Damper, Add</i>	39.82	
<i>For 3 Hour Rated, Add</i>	22.12	
23 33 13 16-0188 EA 14" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	139.17	20.43
<i>For Spring Activated Horizontal Mount Operation, Add</i>	17.49	
<i>For Dynamic Damper, Add</i>	41.97	
<i>For 3 Hour Rated, Add</i>	23.32	
23 33 13 16-0189 EA 14" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	144.91	21.50
<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.09	
<i>For Dynamic Damper, Add</i>	43.42	
<i>For 3 Hour Rated, Add</i>	24.12	
23 33 13 16-0190 EA 14" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	152.18	23.04
<i>For Spring Activated Horizontal Mount Operation, Add</i>	18.69	
<i>For Dynamic Damper, Add</i>	44.85	
<i>For 3 Hour Rated, Add</i>	24.92	
23 33 13 16-0191 EA 14" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	166.53	25.65
<i>For Spring Activated Horizontal Mount Operation, Add</i>	20.19	
<i>For Dynamic Damper, Add</i>	48.45	
<i>For 3 Hour Rated, Add</i>	26.92	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0192	EA		16" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	170.01 24.43 58.63 32.57	20.43
23 33 13 16-0193	EA		16" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	177.60 25.10 60.24 33.47	21.96
23 33 13 16-0194	EA		16" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	186.74 25.78 61.86 34.37	24.11
23 33 13 16-0195	EA		16" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	194.32 26.44 63.46 35.26	25.65
23 33 13 16-0196	EA		16" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	209.48 28.13 67.50 37.50	28.11
23 33 13 16-0197	EA		16" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	224.63 29.81 71.53 39.74	30.72
23 33 13 16-0198	EA		18" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	176.06 25.10 60.24 33.47	21.50
23 33 13 16-0199	EA		18" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	185.16 26.11 62.66 34.81	23.04
23 33 13 16-0200	EA		18" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	197.34 27.12 65.09 36.16	25.65
23 33 13 16-0201	EA		18" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	212.47 28.80 69.11 38.40	28.11
23 33 13 16-0202	EA		18" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	226.11 30.14 72.33 40.19	30.72
23 33 13 16-0203	EA		18" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	241.26 31.82 76.37 42.43	33.17
23 33 13 16-0204	EA		18" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	253.40 32.82 78.78 43.76	35.78
23 33 13 16-0205	EA		20" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	183.68 25.78 61.86 34.37	23.04
23 33 13 16-0206	EA		20" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	197.31 27.11 65.08 36.15	25.65
23 33 13 16-0207	EA		20" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	210.97 28.46 68.30 37.95	28.11
23 33 13 16-0208	EA		20" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	230.61 31.15 74.76 41.54	30.72
23 33 13 16-0209	EA		20" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	242.76 32.16 77.18 42.88	33.17
23 33 13 16-0210	EA		20" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	254.90 33.16 79.59 44.21	35.78
23 33 13 16-0211	EA		20" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	268.55 34.50 82.81 46.01	38.40
23 33 13 16-0212	EA		20" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	282.16 35.84 86.02 47.79	40.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0213 EA 24" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	224.76 33.29 79.90 44.39	25.65
23 33 13 16-0214 EA 24" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	241.40 35.31 84.74 47.08	28.11
23 33 13 16-0215 EA 24" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	255.06 36.65 87.97 48.87	30.72
23 33 13 16-0216 EA 24" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	271.67 38.66 92.79 51.55	33.17
23 33 13 16-0217 EA 24" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	283.84 39.67 95.21 52.90	35.78
23 33 13 16-0218 EA 24" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	295.98 40.68 97.62 54.23	38.40
23 33 13 16-0219 EA 24" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	312.59 42.69 102.45 56.92	40.85
23 33 13 16-0220 EA 24" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	336.90 44.70 107.29 59.60	46.08
23 33 13 16-0221 EA 24" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	364.21 47.39 113.74 63.19	51.14
23 33 13 16-0222 EA 28" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	241.40 35.31 84.74 47.08	28.11
23 33 13 16-0223 EA 28" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	255.06 36.65 87.97 48.87	30.72
23 33 13 16-0224 EA 28" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	271.67 38.66 92.79 51.55	33.17
23 33 13 16-0225 EA 28" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	285.32 40.01 96.01 53.34	35.78
23 33 13 16-0226 EA 28" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	300.47 41.69 100.05 55.58	38.40
23 33 13 16-0227 EA 28" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	315.56 43.36 104.06 57.81	40.85
23 33 13 16-0228 EA 28" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	339.88 45.37 108.90 60.50	46.08
23 33 13 16-0229 EA 28" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	364.21 47.39 113.74 63.19	51.14
23 33 13 16-0230 EA 28" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	389.79 51.42 123.41 68.56	53.76
23 33 13 16-0231 EA 28" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	420.08 54.78 131.47 73.04	58.82
23 33 13 16-0232 EA 32" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	263.99 38.66 92.79 51.55	30.72
23 33 13 16-0233 EA 32" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	274.64 39.33 94.39 52.44	33.17

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0234	EA		32" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	285.32 40.01 96.01 53.34	35.78
23 33 13 16-0235	EA		32" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	298.95 41.34 99.23 55.13	38.40
23 33 13 16-0236	EA		32" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	316.13 43.49 104.37 57.98	40.85
23 33 13 16-0237	EA		32" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	339.88 45.37 108.90 60.50	46.08
23 33 13 16-0238	EA		32" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	367.21 48.07 115.36 64.09	51.14
23 33 13 16-0239	EA		32" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	394.50 50.75 121.80 67.67	56.21
23 33 13 16-0240	EA		32" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	420.08 54.78 131.47 73.04	58.82
23 33 13 16-0241	EA		32" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	453.27 59.48 142.75 79.31	62.98
23 33 13 16-0242	EA		32" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	487.88 64.85 155.64 86.47	66.50
23 33 13 16-0243	EA		36" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	295.98 44.13 105.92 58.84	33.17
23 33 13 16-0244	EA		36" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	310.46 45.66 109.59 60.88	35.78
23 33 13 16-0245	EA		36" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	324.95 47.19 113.27 62.93	38.40
23 33 13 16-0246	EA		36" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	342.86 49.50 118.80 66.00	40.85
23 33 13 16-0247	EA		36" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	363.36 50.66 121.58 67.54	46.08
23 33 13 16-0248	EA		36" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	376.15 51.81 124.34 69.08	48.53
23 33 13 16-0249	EA		36" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	416.24 55.64 133.54 74.19	56.21
23 33 13 16-0250	EA		36" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	448.64 59.48 142.74 79.30	61.44
23 33 13 16-0251	EA		36" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	475.25 64.08 153.80 85.44	63.43
23 33 13 16-0252	EA		36" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	516.36 70.22 168.52 93.62	68.04
23 33 13 16-0253	EA		36" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	550.96 75.59 181.41 100.78	71.57
23 33 13 16-0254	EA		36" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	585.93 81.73 196.14 108.97	74.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0255 EA 40" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	331.50	38.40
<i>For Spring Activated Horizontal Mount Operation, Add</i>	50.40	
<i>For Dynamic Damper, Add</i>	120.95	
<i>For 3 Hour Rated, Add</i>	67.19	
23 33 13 16-0256 EA 40" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	352.82	40.85
<i>For Spring Activated Horizontal Mount Operation, Add</i>	53.46	
<i>For Dynamic Damper, Add</i>	128.31	
<i>For 3 Hour Rated, Add</i>	71.29	
23 33 13 16-0257 EA 40" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	363.89	43.46
<i>For Spring Activated Horizontal Mount Operation, Add</i>	54.23	
<i>For Dynamic Damper, Add</i>	130.16	
<i>For 3 Hour Rated, Add</i>	72.31	
23 33 13 16-0258 EA 40" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	374.99	46.08
<i>For Spring Activated Horizontal Mount Operation, Add</i>	55.00	
<i>For Dynamic Damper, Add</i>	132.00	
<i>For 3 Hour Rated, Add</i>	73.34	
23 33 13 16-0259 EA 40" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	402.30	48.53
<i>For Spring Activated Horizontal Mount Operation, Add</i>	57.69	
<i>For Dynamic Damper, Add</i>	138.46	
<i>For 3 Hour Rated, Add</i>	76.92	
23 33 13 16-0260 EA 40" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	421.91	51.14
<i>For Spring Activated Horizontal Mount Operation, Add</i>	60.37	
<i>For Dynamic Damper, Add</i>	144.90	
<i>For 3 Hour Rated, Add</i>	80.50	
23 33 13 16-0261 EA 40" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	458.59	58.82
<i>For Spring Activated Horizontal Mount Operation, Add</i>	63.44	
<i>For Dynamic Damper, Add</i>	152.26	
<i>For 3 Hour Rated, Add</i>	84.59	
23 33 13 16-0262 EA 40" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	487.60	63.89
<i>For Spring Activated Horizontal Mount Operation, Add</i>	66.51	
<i>For Dynamic Damper, Add</i>	159.63	
<i>For 3 Hour Rated, Add</i>	88.69	
23 33 13 16-0263 EA 40" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	520.37	68.04
<i>For Spring Activated Horizontal Mount Operation, Add</i>	71.12	
<i>For Dynamic Damper, Add</i>	170.69	
<i>For 3 Hour Rated, Add</i>	94.83	
23 33 13 16-0264 EA 40" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	568.62	71.57
<i>For Spring Activated Horizontal Mount Operation, Add</i>	79.56	
<i>For Dynamic Damper, Add</i>	190.94	
<i>For 3 Hour Rated, Add</i>	106.08	
23 33 13 16-0265 EA 40" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	601.34	75.72
<i>For Spring Activated Horizontal Mount Operation, Add</i>	84.16	
<i>For Dynamic Damper, Add</i>	201.98	
<i>For 3 Hour Rated, Add</i>	112.21	
23 33 13 16-0266 EA 40" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	645.04	77.71
<i>For Spring Activated Horizontal Mount Operation, Add</i>	92.61	
<i>For Dynamic Damper, Add</i>	222.25	
<i>For 3 Hour Rated, Add</i>	123.47	
23 33 13 16-0267 EA 40" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	691.41	81.86
<i>For Spring Activated Horizontal Mount Operation, Add</i>	100.28	
<i>For Dynamic Damper, Add</i>	240.66	
<i>For 3 Hour Rated, Add</i>	133.70	
23 33 13 16-0268 EA 44" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	346.01	38.40
<i>For Spring Activated Horizontal Mount Operation, Add</i>	51.93	
<i>For Dynamic Damper, Add</i>	124.64	
<i>For 3 Hour Rated, Add</i>	69.24	
23 33 13 16-0269 EA 44" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	367.31	40.85
<i>For Spring Activated Horizontal Mount Operation, Add</i>	55.00	
<i>For Dynamic Damper, Add</i>	132.00	
<i>For 3 Hour Rated, Add</i>	73.34	
23 33 13 16-0270 EA 44" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	385.24	43.46
<i>For Spring Activated Horizontal Mount Operation, Add</i>	57.31	
<i>For Dynamic Damper, Add</i>	137.54	
<i>For 3 Hour Rated, Add</i>	76.41	
23 33 13 16-0271 EA 44" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	396.33	46.08
<i>For Spring Activated Horizontal Mount Operation, Add</i>	58.07	
<i>For Dynamic Damper, Add</i>	139.38	
<i>For 3 Hour Rated, Add</i>	77.43	
23 33 13 16-0272 EA 44" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	417.65	48.53
<i>For Spring Activated Horizontal Mount Operation, Add</i>	61.14	
<i>For Dynamic Damper, Add</i>	146.75	
<i>For 3 Hour Rated, Add</i>	81.53	
23 33 13 16-0273 EA 44" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	438.98	51.14
<i>For Spring Activated Horizontal Mount Operation, Add</i>	64.22	
<i>For Dynamic Damper, Add</i>	154.12	
<i>For 3 Hour Rated, Add</i>	85.62	
23 33 13 16-0274 EA 44" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	486.75	61.44
<i>For Spring Activated Horizontal Mount Operation, Add</i>	68.05	
<i>For Dynamic Damper, Add</i>	163.32	
<i>For 3 Hour Rated, Add</i>	90.74	
23 33 13 16-0275 EA 44" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	519.14	66.50
<i>For Spring Activated Horizontal Mount Operation, Add</i>	71.88	
<i>For Dynamic Damper, Add</i>	172.52	
<i>For 3 Hour Rated, Add</i>	95.84	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0276 EA 44" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	568.62	71.57
For Spring Activated Horizontal Mount Operation, Add	79.56	
For Dynamic Damper, Add	190.94	
For 3 Hour Rated, Add	106.08	
23 33 13 16-0277 EA 44" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	614.67	76.80
For Spring Activated Horizontal Mount Operation, Add	86.47	
For Dynamic Damper, Add	207.52	
For 3 Hour Rated, Add	115.29	
23 33 13 16-0278 EA 44" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	664.11	81.86
For Spring Activated Horizontal Mount Operation, Add	94.13	
For Dynamic Damper, Add	225.92	
For 3 Hour Rated, Add	125.51	
23 33 13 16-0279 EA 44" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	702.48	84.32
For Spring Activated Horizontal Mount Operation, Add	101.04	
For Dynamic Damper, Add	242.49	
For 3 Hour Rated, Add	134.72	
23 33 13 16-0280 EA 44" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	740.87	86.93
For Spring Activated Horizontal Mount Operation, Add	107.95	
For Dynamic Damper, Add	259.08	
For 3 Hour Rated, Add	143.93	
23 33 13 16-0281 EA 44" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	779.26	89.54
For Spring Activated Horizontal Mount Operation, Add	114.86	
For Dynamic Damper, Add	275.66	
For 3 Hour Rated, Add	153.14	
23 33 13 16-0282 EA 48" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	363.89	40.85
For Spring Activated Horizontal Mount Operation, Add	54.23	
For Dynamic Damper, Add	130.16	
For 3 Hour Rated, Add	72.31	
23 33 13 16-0283 EA 48" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	385.24	43.46
For Spring Activated Horizontal Mount Operation, Add	57.31	
For Dynamic Damper, Add	137.54	
For 3 Hour Rated, Add	76.41	
23 33 13 16-0284 EA 48" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	396.33	46.08
For Spring Activated Horizontal Mount Operation, Add	58.07	
For Dynamic Damper, Add	139.38	
For 3 Hour Rated, Add	77.43	
23 33 13 16-0285 EA 48" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	421.91	51.14
For Spring Activated Horizontal Mount Operation, Add	60.37	
For Dynamic Damper, Add	144.90	
For 3 Hour Rated, Add	80.50	
23 33 13 16-0286 EA 48" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	450.91	56.21
For Spring Activated Horizontal Mount Operation, Add	63.44	
For Dynamic Damper, Add	152.26	
For 3 Hour Rated, Add	84.59	
23 33 13 16-0287 EA 48" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	479.92	61.44
For Spring Activated Horizontal Mount Operation, Add	66.51	
For Dynamic Damper, Add	159.63	
For 3 Hour Rated, Add	88.69	
23 33 13 16-0288 EA 48" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	515.75	66.50
For Spring Activated Horizontal Mount Operation, Add	71.12	
For Dynamic Damper, Add	170.69	
For 3 Hour Rated, Add	94.83	
23 33 13 16-0289 EA 48" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	551.55	71.57
For Spring Activated Horizontal Mount Operation, Add	75.72	
For Dynamic Damper, Add	181.73	
For 3 Hour Rated, Add	100.96	
23 33 13 16-0290 EA 48" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	597.62	76.80
For Spring Activated Horizontal Mount Operation, Add	82.63	
For Dynamic Damper, Add	198.31	
For 3 Hour Rated, Add	110.17	
23 33 13 16-0291 EA 48" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	650.47	81.86
For Spring Activated Horizontal Mount Operation, Add	91.06	
For Dynamic Damper, Add	218.55	
For 3 Hour Rated, Add	121.42	
23 33 13 16-0292 EA 48" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	688.87	84.32
For Spring Activated Horizontal Mount Operation, Add	97.98	
For Dynamic Damper, Add	235.14	
For 3 Hour Rated, Add	130.64	
23 33 13 16-0293 EA 48" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	737.45	86.93
For Spring Activated Horizontal Mount Operation, Add	107.18	
For Dynamic Damper, Add	257.23	
For 3 Hour Rated, Add	142.91	
23 33 13 16-0294 EA 48" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	783.54	92.00
For Spring Activated Horizontal Mount Operation, Add	114.09	
For Dynamic Damper, Add	273.82	
For 3 Hour Rated, Add	152.12	
23 33 13 16-0295 EA 48" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	832.13	94.61
For Spring Activated Horizontal Mount Operation, Add	123.30	
For Dynamic Damper, Add	295.91	
For 3 Hour Rated, Add	164.40	
23 33 13 16-0296 EA 48" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	882.46	102.29
For Spring Activated Horizontal Mount Operation, Add	129.44	
For Dynamic Damper, Add	310.65	
For 3 Hour Rated, Add	172.58	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0297 EA 52" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	381.82 56.54 135.69 75.38	43.46
23 33 13 16-0298 EA 52" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	403.14 59.61 143.06 79.48	46.08
23 33 13 16-0299 EA 52" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	432.15 62.68 150.43 83.57	51.14
23 33 13 16-0300 EA 52" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	450.91 63.44 152.26 84.59	56.21
23 33 13 16-0301 EA 52" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	481.64 66.90 160.56 89.20	61.44
23 33 13 16-0302 EA 52" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	512.33 70.35 168.84 93.80	66.50
23 33 13 16-0303 EA 52" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	548.16 74.96 179.90 99.94	71.57
23 33 13 16-0304 EA 52" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	583.98 79.56 190.94 106.08	76.80
23 33 13 16-0305 EA 52" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	630.03 86.47 207.52 115.29	81.86
23 33 13 16-0306 EA 52" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	686.30 95.67 229.61 127.56	86.93
23 33 13 16-0307 EA 52" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	728.08 103.34 248.02 137.79	89.54
23 33 13 16-0308 EA 52" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	780.11 113.32 271.97 151.10	92.00
23 33 13 16-0309 EA 52" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	836.37 122.52 294.06 163.37	97.22
23 33 13 16-0310 EA 52" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	882.46 129.44 310.65 172.58	102.29
23 33 13 16-0311 EA 52" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	946.41 138.64 332.74 184.86	109.97
23 33 13 16-0312 EA 52" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	995.86 146.32 351.16 195.09	115.03
23 33 13 16-0313 EA 56" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	396.33 58.07 139.38 77.43	46.08
23 33 13 16-0314 EA 56" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	428.72 61.91 148.58 82.54	51.14
23 33 13 16-0315 EA 56" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	454.34 64.22 154.12 85.62	56.21
23 33 13 16-0316 EA 56" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	473.09 64.98 155.95 86.64	61.44
23 33 13 16-0317 EA 56" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	507.22 69.20 166.08 92.27	66.50

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0318	EA		56" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	541.33	71.57
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	73.42	
			<i>For Dynamic Damper, Add</i>	176.21	
			<i>For 3 Hour Rated, Add</i>	97.89	
23 33 13 16-0319	EA		56" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	575.45	76.80
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	77.64	
			<i>For Dynamic Damper, Add</i>	186.34	
			<i>For 3 Hour Rated, Add</i>	103.52	
23 33 13 16-0320	EA		56" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	609.56	81.86
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	81.86	
			<i>For Dynamic Damper, Add</i>	196.46	
			<i>For 3 Hour Rated, Add</i>	109.15	
23 33 13 16-0321	EA		56" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	665.83	86.93
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	91.06	
			<i>For Dynamic Damper, Add</i>	218.55	
			<i>For 3 Hour Rated, Add</i>	121.42	
23 33 13 16-0322	EA		56" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	714.45	89.54
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	100.28	
			<i>For Dynamic Damper, Add</i>	240.66	
			<i>For 3 Hour Rated, Add</i>	133.70	
23 33 13 16-0323	EA		56" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	759.64	92.00
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	108.72	
			<i>For Dynamic Damper, Add</i>	260.92	
			<i>For 3 Hour Rated, Add</i>	144.95	
23 33 13 16-0324	EA		56" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	822.76	97.22
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	119.46	
			<i>For Dynamic Damper, Add</i>	286.71	
			<i>For 3 Hour Rated, Add</i>	159.28	
23 33 13 16-0325	EA		56" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	879.03	102.29
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	128.67	
			<i>For Dynamic Damper, Add</i>	308.80	
			<i>For 3 Hour Rated, Add</i>	171.56	
23 33 13 16-0326	EA		56" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	938.73	107.35
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	138.64	
			<i>For Dynamic Damper, Add</i>	332.74	
			<i>For 3 Hour Rated, Add</i>	184.86	
23 33 13 16-0327	EA		56" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	988.20	112.58
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	146.32	
			<i>For Dynamic Damper, Add</i>	351.16	
			<i>For 3 Hour Rated, Add</i>	195.09	
23 33 13 16-0328	EA		56" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,047.88	117.65
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	156.29	
			<i>For Dynamic Damper, Add</i>	375.11	
			<i>For 3 Hour Rated, Add</i>	208.39	
23 33 13 16-0329	EA		56" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	1,107.58	122.71
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	166.27	
			<i>For Dynamic Damper, Add</i>	399.05	
			<i>For 3 Hour Rated, Add</i>	221.69	
23 33 13 16-0330	EA		60" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	421.91	51.14
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	60.37	
			<i>For Dynamic Damper, Add</i>	144.90	
			<i>For 3 Hour Rated, Add</i>	80.50	
23 33 13 16-0331	EA		60" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	454.34	56.21
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	64.22	
			<i>For Dynamic Damper, Add</i>	154.12	
			<i>For 3 Hour Rated, Add</i>	85.62	
23 33 13 16-0332	EA		60" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	476.49	61.44
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	65.74	
			<i>For Dynamic Damper, Add</i>	157.78	
			<i>For 3 Hour Rated, Add</i>	87.66	
23 33 13 16-0333	EA		60" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	495.28	66.50
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	66.51	
			<i>For Dynamic Damper, Add</i>	159.63	
			<i>For 3 Hour Rated, Add</i>	88.69	
23 33 13 16-0334	EA		60" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	531.11	71.57
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	71.12	
			<i>For Dynamic Damper, Add</i>	170.69	
			<i>For 3 Hour Rated, Add</i>	94.83	
23 33 13 16-0335	EA		60" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	566.91	76.80
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	75.72	
			<i>For Dynamic Damper, Add</i>	181.73	
			<i>For 3 Hour Rated, Add</i>	100.96	
23 33 13 16-0336	EA		60" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	604.44	81.86
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	80.71	
			<i>For Dynamic Damper, Add</i>	193.70	
			<i>For 3 Hour Rated, Add</i>	107.61	
23 33 13 16-0337	EA		60" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	641.97	86.93
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	85.70	
			<i>For Dynamic Damper, Add</i>	205.67	
			<i>For 3 Hour Rated, Add</i>	114.26	
23 33 13 16-0338	EA		60" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	693.98	89.54
			<i>For Spring Activated Horizontal Mount Operation, Add</i>	95.67	
			<i>For Dynamic Damper, Add</i>	229.61	
			<i>For 3 Hour Rated, Add</i>	127.56	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0339 EA 60" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	742.59 104.88 251.71 139.84	92.00
23 33 13 16-0340 EA 60" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	802.30 114.86 275.66 153.14	97.22
23 33 13 16-0341 EA 60" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	862.00 124.83 299.60 166.45	102.29
23 33 13 16-0342 EA 60" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	911.46 132.51 318.02 176.68	107.35
23 33 13 16-0343 EA 60" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	981.38 144.78 347.48 193.04	112.58
23 33 13 16-0344 EA 60" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,044.46 155.52 373.26 207.37	117.65
23 33 13 16-0345 EA 60" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,107.58 166.27 399.05 221.69	122.71
23 33 13 16-0346 EA 60" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,163.83 175.47 421.13 233.96	127.94
23 33 13 16-0347 EA 60" x 60" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Spring Activated Horizontal Mount Operation, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,220.16 184.69 443.25 246.25	133.01
<b>23 33 13 16-0348 Round 2 Hour Fire Damper</b> <small>(23 33 13 16)</small>		
23 33 13 16-0349 EA 4" Round 2 Hour Fire Damper	140.56	30.72
23 33 13 16-0350 EA 5" Round 2 Hour Fire Damper	146.23	30.72
23 33 13 16-0351 EA 6" Round 2 Hour Fire Damper	171.60	34.86
23 33 13 16-0352 EA 7" Round 2 Hour Fire Damper	177.76	34.86
23 33 13 16-0353 EA 8" Round 2 Hour Fire Damper	212.49	38.40
23 33 13 16-0354 EA 9" Round 2 Hour Fire Damper	229.44	38.40
23 33 13 16-0355 EA 10" Round 2 Hour Fire Damper	254.97	42.70
23 33 13 16-0356 EA 12" Round 2 Hour Fire Damper	286.42	48.07
23 33 13 16-0357 EA 14" Round 2 Hour Fire Damper	325.60	54.83
<b>23 33 13 16-0358 Round 4 Hour Fire Damper</b> <small>(23 33 13 16)</small>		
23 33 13 16-0359 EA 4" Round 4 Hour Fire Damper	158.43	34.86
23 33 13 16-0360 EA 5" Round 4 Hour Fire Damper	173.87	34.86
23 33 13 16-0361 EA 6" Round 4 Hour Fire Damper	196.51	38.40
23 33 13 16-0362 EA 7" Round 4 Hour Fire Damper	216.43	38.40
23 33 13 16-0363 EA 8" Round 4 Hour Fire Damper	244.93	42.70
23 33 13 16-0364 EA 9" Round 4 Hour Fire Damper	257.07	42.70
23 33 13 16-0365 EA 10" Round 4 Hour Fire Damper	286.79	48.07
23 33 13 16-0366 EA 12" Round 4 Hour Fire Damper	317.88	54.83
23 33 13 16-0367 EA 14" Round 4 Hour Fire Damper	370.87	64.04
<b>23 33 13 19 Smoke-Control Dampers</b> <small>(23 33 13)</small>		
<b>23 33 13 19-0001 Combination Smoke/Fire Damper</b> <small>(23 33 13 19)</small>		
<small>Note: Leakage class I with Firestat UL 555S air foil blades.</small>		
23 33 13 19-0002 EA 6" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	599.71 282.41 156.90	25.57
23 33 13 19-0003 EA 8" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	615.92 289.31 160.73	26.73
23 33 13 19-0004 EA 8" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	629.33 296.29 164.61	26.96
23 33 13 19-0005 EA 10" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	643.87 304.14 168.97	26.96
23 33 13 19-0006 EA 10" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	659.36 311.27 172.93	27.64
23 33 13 19-0007 EA 10" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	695.04 325.56 180.86	30.64

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0008	EA		12" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	659.36 311.27 172.93	27.64
23 33 13 19-0009	EA		12" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	690.42 325.56 180.86	29.26
23 33 13 19-0010	EA		12" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	708.23 332.68 184.82	30.64
23 33 13 19-0011	EA		12" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	733.03 339.85 188.81	34.56
23 33 13 19-0012	EA		14" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	683.83 322.00 178.89	29.26
23 33 13 19-0013	EA		14" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	708.23 332.68 184.82	30.64
23 33 13 19-0014	EA		14" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	726.11 339.85 188.81	32.26
23 33 13 19-0015	EA		14" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	746.30 347.01 192.79	34.56
23 33 13 19-0016	EA		14" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	790.88 364.87 202.70	38.47
23 33 13 19-0017	EA		16" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	713.31 335.42 186.35	30.64
23 33 13 19-0018	EA		16" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	727.71 339.47 188.60	32.94
23 33 13 19-0019	EA		16" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	744.43 343.52 190.85	36.17
23 33 13 19-0020	EA		16" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	758.75 347.52 193.07	38.47
23 33 13 19-0021	EA		16" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	788.97 357.63 198.68	42.16
23 33 13 19-0022	EA		16" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	819.16 367.71 204.28	46.08
23 33 13 19-0023	EA		18" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	725.41 339.47 188.60	32.26
23 33 13 19-0024	EA		18" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	743.50 345.50 191.95	34.56
23 33 13 19-0025	EA		18" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	766.30 351.59 195.33	38.47
23 33 13 19-0026	EA		18" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	796.47 361.68 200.93	42.16
23 33 13 19-0027	EA		18" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	822.89 369.72 205.40	46.08
23 33 13 19-0028	EA		18" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	853.08 379.80 211.00	49.76
23 33 13 19-0029	EA		18" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	875.83 385.87 214.37	53.68
23 33 13 19-0030	EA		20" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	739.83 343.52 190.85	34.56
23 33 13 19-0031	EA		20" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	766.25 351.57 195.32	38.47
23 33 13 19-0032	EA		20" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	792.69 359.63 199.80	42.16
23 33 13 19-0033	EA		20" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	834.16 375.81 208.78	46.08
23 33 13 19-0034	EA		20" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	856.86 381.84 212.14	49.76
23 33 13 19-0035	EA		20" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	879.55 387.88 215.49	53.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0036 EA 20" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	906.02 395.95 219.97	57.60
23 33 13 19-0037 EA 20" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	932.44 404.00 224.44	61.28
23 33 13 19-0038 EA 24" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	759.36 347.85 193.25	38.47
23 33 13 19-0039 EA 24" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	785.97 356.01 197.78	42.16
23 33 13 19-0040 EA 24" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	807.59 361.46 200.81	46.08
23 33 13 19-0041 EA 24" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	834.17 369.59 205.33	49.76
23 33 13 19-0042 EA 24" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	853.24 373.67 207.59	53.68
23 33 13 19-0043 EA 24" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	872.29 377.74 209.85	57.60
23 33 13 19-0044 EA 24" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	898.90 385.88 214.38	61.28
23 33 13 19-0045 EA 24" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	937.02 394.03 218.90	69.12
23 33 13 19-0046 EA 24" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	980.19 404.90 224.94	76.72
23 33 13 19-0047 EA 28" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	785.97 356.01 197.78	42.16
23 33 13 19-0048 EA 28" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	807.59 361.46 200.81	46.08
23 33 13 19-0049 EA 28" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	834.17 369.59 205.33	49.76
23 33 13 19-0050 EA 28" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	855.75 375.02 208.35	53.68
23 33 13 19-0051 EA 28" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	879.85 381.82 212.12	57.60
23 33 13 19-0052 EA 28" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	903.91 388.59 215.88	61.28
23 33 13 19-0053 EA 28" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	942.04 396.74 220.41	69.12
23 33 13 19-0054 EA 28" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	980.19 404.90 224.94	76.72
23 33 13 19-0055 EA 28" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,021.88 421.19 233.99	80.64
23 33 13 19-0056 EA 28" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,070.08 434.78 241.54	88.24
23 33 13 19-0057 EA 32" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	822.65 369.59 205.33	46.08
23 33 13 19-0058 EA 32" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	839.18 372.30 206.83	49.76
23 33 13 19-0059 EA 32" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	855.75 375.02 208.35	53.68
23 33 13 19-0060 EA 32" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	877.31 380.45 211.36	57.60
23 33 13 19-0061 EA 32" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	904.85 389.10 216.17	61.28
23 33 13 19-0062 EA 32" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	942.04 396.74 220.41	69.12
23 33 13 19-0063 EA 32" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	985.25 407.63 226.46	76.72

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0064	EA		32" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,028.42	84.32
			<i>For Dynamic Damper, Add</i>	418.50	
			<i>For 3 Hour Rated, Add</i>	232.50	
23 33 13 19-0065	EA		32" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,070.08	88.24
			<i>For Dynamic Damper, Add</i>	434.78	
			<i>For 3 Hour Rated, Add</i>	241.54	
23 33 13 19-0066	EA		32" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,123.75	94.46
			<i>For Dynamic Damper, Add</i>	453.81	
			<i>For 3 Hour Rated, Add</i>	252.12	
23 33 13 19-0067	EA		32" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,180.09	99.76
			<i>For Dynamic Damper, Add</i>	475.52	
			<i>For 3 Hour Rated, Add</i>	264.18	
23 33 13 19-0068	EA		36" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	865.00	49.76
			<i>For Dynamic Damper, Add</i>	386.24	
			<i>For 3 Hour Rated, Add</i>	214.58	
23 33 13 19-0069	EA		36" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	887.43	53.68
			<i>For Dynamic Damper, Add</i>	392.13	
			<i>For 3 Hour Rated, Add</i>	217.85	
23 33 13 19-0070	EA		36" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	909.88	57.60
			<i>For Dynamic Damper, Add</i>	398.03	
			<i>For 3 Hour Rated, Add</i>	221.13	
23 33 13 19-0071	EA		36" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	937.83	61.28
			<i>For Dynamic Damper, Add</i>	406.91	
			<i>For 3 Hour Rated, Add</i>	226.06	
23 33 13 19-0072	EA		36" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	969.10	69.12
			<i>For Dynamic Damper, Add</i>	411.35	
			<i>For 3 Hour Rated, Add</i>	228.53	
23 33 13 19-0073	EA		36" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	988.81	72.80
			<i>For Dynamic Damper, Add</i>	415.77	
			<i>For 3 Hour Rated, Add</i>	230.99	
23 33 13 19-0074	EA		36" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,050.73	84.32
			<i>For Dynamic Damper, Add</i>	430.55	
			<i>For 3 Hour Rated, Add</i>	239.19	
23 33 13 19-0075	EA		36" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,101.06	92.16
			<i>For Dynamic Damper, Add</i>	445.28	
			<i>For 3 Hour Rated, Add</i>	247.38	
23 33 13 19-0076	EA		36" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,143.09	95.15
			<i>For Dynamic Damper, Add</i>	463.00	
			<i>For 3 Hour Rated, Add</i>	257.22	
23 33 13 19-0077	EA		36" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,207.56	102.06
			<i>For Dynamic Damper, Add</i>	486.63	
			<i>For 3 Hour Rated, Add</i>	270.35	
23 33 13 19-0078	EA		36" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,261.93	107.35
			<i>For Dynamic Damper, Add</i>	507.27	
			<i>For 3 Hour Rated, Add</i>	281.82	
23 33 13 19-0079	EA		36" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,317.20	111.27
			<i>For Dynamic Damper, Add</i>	530.90	
			<i>For 3 Hour Rated, Add</i>	294.94	
23 33 13 19-0080	EA		40" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,375.61	57.60
			<i>For Dynamic Damper, Add</i>	655.75	
			<i>For 3 Hour Rated, Add</i>	364.31	
23 33 13 19-0081	EA		40" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,416.44	61.28
			<i>For Dynamic Damper, Add</i>	671.58	
			<i>For 3 Hour Rated, Add</i>	373.10	
23 33 13 19-0082	EA		40" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,435.33	65.20
			<i>For Dynamic Damper, Add</i>	675.56	
			<i>For 3 Hour Rated, Add</i>	375.31	
23 33 13 19-0083	EA		40" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,454.21	69.12
			<i>For Dynamic Damper, Add</i>	679.53	
			<i>For 3 Hour Rated, Add</i>	377.52	
23 33 13 19-0084	EA		40" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,502.93	72.80
			<i>For Dynamic Damper, Add</i>	693.40	
			<i>For 3 Hour Rated, Add</i>	385.22	
23 33 13 19-0085	EA		40" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,540.18	76.72
			<i>For Dynamic Damper, Add</i>	707.29	
			<i>For 3 Hour Rated, Add</i>	392.94	
23 33 13 19-0086	EA		40" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,604.10	88.24
			<i>For Dynamic Damper, Add</i>	723.15	
			<i>For 3 Hour Rated, Add</i>	401.75	
23 33 13 19-0087	EA		40" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,656.46	95.84
			<i>For Dynamic Damper, Add</i>	738.98	
			<i>For 3 Hour Rated, Add</i>	410.54	
23 33 13 19-0088	EA		40" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,718.96	102.06
			<i>For Dynamic Damper, Add</i>	762.78	
			<i>For 3 Hour Rated, Add</i>	423.77	
23 33 13 19-0089	EA		40" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,815.78	107.35
			<i>For Dynamic Damper, Add</i>	806.35	
			<i>For 3 Hour Rated, Add</i>	447.97	
23 33 13 19-0090	EA		40" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,878.20	113.58
			<i>For Dynamic Damper, Add</i>	830.11	
			<i>For 3 Hour Rated, Add</i>	461.17	
23 33 13 19-0091	EA		40" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,968.19	116.57
			<i>For Dynamic Damper, Add</i>	873.73	
			<i>For 3 Hour Rated, Add</i>	485.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0092 EA 40" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	2,060.01 913.36 507.42	122.79
23 33 13 19-0093 EA 44" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,401.81 663.68 368.71	57.60
23 33 13 19-0094 EA 44" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,442.69 679.53 377.52	61.28
23 33 13 19-0095 EA 44" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,476.25 691.43 384.13	65.20
23 33 13 19-0096 EA 44" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,495.14 695.41 386.34	69.12
23 33 13 19-0097 EA 44" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,536.02 711.27 395.15	72.80
23 33 13 19-0098 EA 44" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,576.86 727.10 403.94	76.72
23 33 13 19-0099 EA 44" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,659.66 746.93 414.96	92.16
23 33 13 19-0100 EA 44" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,719.34 766.71 425.95	99.76
23 33 13 19-0101 EA 44" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,815.78 806.35 447.97	107.35
23 33 13 19-0102 EA 44" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,904.84 842.01 467.78	115.20
23 33 13 19-0103 EA 44" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	2,001.24 881.63 489.79	122.79
23 33 13 19-0104 EA 44" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	2,078.81 917.29 509.61	126.48
23 33 13 19-0105 EA 44" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	2,156.41 952.98 529.43	130.39
23 33 13 19-0106 EA 44" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	2,234.02 988.66 549.26	134.31
23 33 13 19-0107 EA 48" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,435.33 675.56 375.31	61.28
23 33 13 19-0108 EA 48" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,476.25 691.43 384.13	65.20
23 33 13 19-0109 EA 48" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,495.14 695.41 386.34	69.12
23 33 13 19-0110 EA 48" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,540.18 707.29 392.94	76.72
23 33 13 19-0111 EA 48" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,592.58 723.15 401.75	84.32
23 33 13 19-0112 EA 48" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,644.94 738.98 410.54	92.16
23 33 13 19-0113 EA 48" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,712.06 762.78 423.77	99.76
23 33 13 19-0114 EA 48" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,779.10 786.54 436.97	107.35
23 33 13 19-0115 EA 48" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,868.16 822.20 456.78	115.20
23 33 13 19-0116 EA 48" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,971.88 865.77 480.98	122.79
23 33 13 19-0117 EA 48" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	2,049.53 901.48 500.82	126.48
23 33 13 19-0118 EA 48" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	2,149.05 949.00 527.22	130.39
23 33 13 19-0119 EA 48" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	2,238.18 984.69 547.05	137.99

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0120 EA 48" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,337.78	141.91
For Dynamic Damper, Add	1,032.25	
For 3 Hour Rated, Add	573.47	
23 33 13 19-0121 EA 48" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,431.02	153.43
For Dynamic Damper, Add	1,063.94	
For 3 Hour Rated, Add	591.08	
23 33 13 19-0122 EA 52" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,468.89	65.20
For Dynamic Damper, Add	687.46	
For 3 Hour Rated, Add	381.92	
23 33 13 19-0123 EA 52" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,509.77	69.12
For Dynamic Damper, Add	703.31	
For 3 Hour Rated, Add	390.73	
23 33 13 19-0124 EA 52" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,562.17	76.72
For Dynamic Damper, Add	719.17	
For 3 Hour Rated, Add	399.54	
23 33 13 19-0125 EA 52" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,592.58	84.32
For Dynamic Damper, Add	723.15	
For 3 Hour Rated, Add	401.75	
23 33 13 19-0126 EA 52" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,648.66	92.16
For Dynamic Damper, Add	740.99	
For 3 Hour Rated, Add	411.66	
23 33 13 19-0127 EA 52" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,704.70	99.76
For Dynamic Damper, Add	758.81	
For 3 Hour Rated, Add	421.56	
23 33 13 19-0128 EA 52" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,771.78	107.35
For Dynamic Damper, Add	782.59	
For 3 Hour Rated, Add	434.77	
23 33 13 19-0129 EA 52" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,838.80	115.20
For Dynamic Damper, Add	806.35	
For 3 Hour Rated, Add	447.97	
23 33 13 19-0130 EA 52" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,927.88	122.79
For Dynamic Damper, Add	842.01	
For 3 Hour Rated, Add	467.78	
23 33 13 19-0131 EA 52" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,039.01	130.39
For Dynamic Damper, Add	889.58	
For 3 Hour Rated, Add	494.21	
23 33 13 19-0132 EA 52" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,123.84	134.31
For Dynamic Damper, Add	929.17	
For 3 Hour Rated, Add	516.20	
23 33 13 19-0133 EA 52" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,230.86	137.99
For Dynamic Damper, Add	980.74	
For 3 Hour Rated, Add	544.85	
23 33 13 19-0134 EA 52" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,341.89	145.83
For Dynamic Damper, Add	1,028.25	
For 3 Hour Rated, Add	571.25	
23 33 13 19-0135 EA 52" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,431.02	153.43
For Dynamic Damper, Add	1,063.94	
For 3 Hour Rated, Add	591.08	
23 33 13 19-0136 EA 52" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,553.62	164.95
For Dynamic Damper, Add	1,111.48	
For 3 Hour Rated, Add	617.49	
23 33 13 19-0137 EA 52" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,650.07	172.55
For Dynamic Damper, Add	1,151.12	
For 3 Hour Rated, Add	639.51	
23 33 13 19-0138 EA 56" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,495.14	69.12
For Dynamic Damper, Add	695.41	
For 3 Hour Rated, Add	386.34	
23 33 13 19-0139 EA 56" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,554.81	76.72
For Dynamic Damper, Add	715.19	
For 3 Hour Rated, Add	397.33	
23 33 13 19-0140 EA 56" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,599.90	84.32
For Dynamic Damper, Add	727.10	
For 3 Hour Rated, Add	403.94	
23 33 13 19-0141 EA 56" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,630.25	92.16
For Dynamic Damper, Add	731.05	
For 3 Hour Rated, Add	406.14	
23 33 13 19-0142 EA 56" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,693.70	99.76
For Dynamic Damper, Add	752.87	
For 3 Hour Rated, Add	418.26	
23 33 13 19-0143 EA 56" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,757.10	107.35
For Dynamic Damper, Add	774.66	
For 3 Hour Rated, Add	430.37	
23 33 13 19-0144 EA 56" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,820.44	115.20
For Dynamic Damper, Add	796.44	
For 3 Hour Rated, Add	442.46	
23 33 13 19-0145 EA 56" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,883.84	122.79
For Dynamic Damper, Add	818.23	
For 3 Hour Rated, Add	454.57	
23 33 13 19-0146 EA 56" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	1,994.92	130.39
For Dynamic Damper, Add	865.77	
For 3 Hour Rated, Add	480.98	
23 33 13 19-0147 EA 56" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated.....	2,094.57	134.31
For Dynamic Damper, Add	913.36	
For 3 Hour Rated, Add	507.42	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0148 EA 56" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,186.77 956.93 531.63	137.99
23 33 13 19-0149 EA 56" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,312.58 1,012.42 562.46	145.83
23 33 13 19-0150 EA 56" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,423.66 1,059.97 588.87	153.43
23 33 13 19-0151 EA 56" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,542.10 1,111.48 617.49	161.03
23 33 13 19-0152 EA 56" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,638.55 1,151.12 639.51	168.87
23 33 13 19-0153 EA 56" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,756.99 1,202.64 668.13	176.47
23 33 13 19-0154 EA 56" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,875.44 1,254.16 696.76	184.07
23 33 13 19-0155 EA 60" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,540.18 707.29 392.94	76.72
23 33 13 19-0156 EA 60" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,599.90 727.10 403.94	84.32
23 33 13 19-0157 EA 60" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,637.62 735.03 408.35	92.16
23 33 13 19-0158 EA 60" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,667.98 738.98 410.54	99.76
23 33 13 19-0159 EA 60" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,735.10 762.78 423.77	107.35
23 33 13 19-0160 EA 60" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,802.12 786.54 436.97	115.20
23 33 13 19-0161 EA 60" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,872.84 812.29 451.27	122.79
23 33 13 19-0162 EA 60" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	1,943.60 838.06 465.59	130.39
23 33 13 19-0163 EA 60" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,050.53 889.58 494.21	134.31
23 33 13 19-0164 EA 60" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,150.09 937.12 520.62	137.99
23 33 13 19-0165 EA 60" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,268.58 988.66 549.26	145.83
23 33 13 19-0166 EA 60" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,387.02 1,040.18 577.88	153.43
23 33 13 19-0167 EA 60" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,483.42 1,079.79 599.89	161.03
23 33 13 19-0168 EA 60" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,623.87 1,143.20 635.11	168.87
23 33 13 19-0169 EA 60" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,749.67 1,198.69 665.94	176.47
23 33 13 19-0170 EA 60" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,875.44 1,254.16 696.76	184.07
23 33 13 19-0171 EA 60" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	2,986.45 1,301.68 723.15	191.91
23 33 13 19-0172 EA 60" x 60" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	3,097.67 1,349.29 749.61	199.51
<b>23 33 13 19-0173 Smoke Damper</b> <small>(23 33 13 19)</small> Note: Leakage class I with Firestat UL 555S air foil blades.		
23 33 13 19-0174 EA 6" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	139.53 47.73 26.52	17.05
23 33 13 19-0175 EA 8" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	144.06 48.93 27.18	17.81

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13	19-0176	EA	8" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	146.62 50.14 27.86	17.97
23 33 13	19-0177	EA	10" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	146.62 50.14 27.86	17.97
23 33 13	19-0178	EA	10" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	150.39 51.35 28.53	18.44
23 33 13	19-0179	EA	10" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	161.00 53.76 29.87	20.43
23 33 13	19-0180	EA	12" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	150.39 51.35 28.53	18.44
23 33 13	19-0181	EA	12" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	157.92 53.76 29.87	19.50
23 33 13	19-0182	EA	12" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	163.25 54.98 30.54	20.43
23 33 13	19-0183	EA	12" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	173.16 56.18 31.21	23.04
23 33 13	19-0184	EA	14" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	156.81 53.16 29.54	19.50
23 33 13	19-0185	EA	14" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	163.25 54.98 30.54	20.43
23 33 13	19-0186	EA	14" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	168.54 56.18 31.21	21.50
23 33 13	19-0187	EA	14" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	175.41 57.40 31.89	23.04
23 33 13	19-0188	EA	14" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	188.68 60.42 33.56	25.65
23 33 13	19-0189	EA	16" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	244.75 98.99 54.99	20.43
23 33 13	19-0190	EA	16" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	251.58 100.19 55.66	21.96
23 33 13	19-0191	EA	16" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	259.97 101.41 56.34	24.11
23 33 13	19-0192	EA	16" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	266.81 102.61 57.00	25.65
23 33 13	19-0193	EA	16" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	280.11 105.64 58.69	28.11
23 33 13	19-0194	EA	16" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	293.38 108.66 60.37	30.72
23 33 13	19-0195	EA	18" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	250.04 100.19 55.66	21.50
23 33 13	19-0196	EA	18" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	258.02 102.01 56.67	23.04
23 33 13	19-0197	EA	18" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	269.07 103.83 57.68	25.65
23 33 13	19-0198	EA	18" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	282.35 106.85 59.36	28.11
23 33 13	19-0199	EA	18" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	294.49 109.26 60.70	30.72
23 33 13	19-0200	EA	18" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	307.78 112.29 62.38	33.17
23 33 13	19-0201	EA	18" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	318.82 114.10 63.39	35.78
23 33 13	19-0202	EA	20" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	256.91 101.41 56.34	23.04
23 33 13	19-0203	EA	20" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	269.06 103.82 57.68	25.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0204 EA 20" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	281.22 106.24 59.02	28.11
23 33 13 19-0205 EA 20" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	297.87 111.08 61.71	30.72
23 33 13 19-0206 EA 20" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	308.90 112.89 62.72	33.17
23 33 13 19-0207 EA 20" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	319.94 114.71 63.73	35.78
23 33 13 19-0208 EA 20" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	332.09 117.12 65.07	38.40
23 33 13 19-0209 EA 20" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	344.21 119.53 66.41	40.85
23 33 13 19-0210 EA 24" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	336.49 140.23 77.91	25.65
23 33 13 19-0211 EA 24" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	350.90 143.87 79.93	28.11
23 33 13 19-0212 EA 24" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	363.07 146.29 81.27	30.72
23 33 13 19-0213 EA 24" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	377.46 149.91 83.29	33.17
23 33 13 19-0214 EA 24" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	388.50 151.73 84.29	35.78
23 33 13 19-0215 EA 24" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	399.52 153.53 85.30	38.40
23 33 13 19-0216 EA 24" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	413.90 157.16 87.31	40.85
23 33 13 19-0217 EA 24" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	435.97 160.79 89.33	46.08
23 33 13 19-0218 EA 24" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	460.30 165.63 92.02	51.14
23 33 13 19-0219 EA 28" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	350.90 143.87 79.93	28.11
23 33 13 19-0220 EA 28" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	363.07 146.29 81.27	30.72
23 33 13 19-0221 EA 28" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	377.46 149.91 83.29	33.17
23 33 13 19-0222 EA 28" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	389.61 152.33 84.63	35.78
23 33 13 19-0223 EA 28" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	402.88 155.35 86.30	38.40
23 33 13 19-0224 EA 28" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	416.13 158.37 87.98	40.85
23 33 13 19-0225 EA 28" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	438.21 161.99 90.00	46.08
23 33 13 19-0226 EA 28" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	460.30 165.63 92.02	51.14
23 33 13 19-0227 EA 28" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	481.39 172.87 96.04	53.76
23 33 13 19-0228 EA 28" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	507.95 178.92 99.40	58.82
23 33 13 19-0229 EA 32" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	369.78 149.91 83.29	30.72
23 33 13 19-0230 EA 32" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	379.68 151.11 83.95	33.17
23 33 13 19-0231 EA 32" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	389.61 152.33 84.63	35.78

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 33 Air Duct Accessories**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0232	EA		32" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	401.75 154.74 85.97	38.40
23 33 13 19-0233	EA		32" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	416.55 158.59 88.11	40.85
23 33 13 19-0234	EA		32" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	438.21 161.99 90.00	46.08
23 33 13 19-0235	EA		32" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	462.53 166.83 92.69	51.14
23 33 13 19-0236	EA		32" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	486.86 171.68 95.38	56.21
23 33 13 19-0237	EA		32" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	507.95 178.92 99.40	58.82
23 33 13 19-0238	EA		32" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	535.93 187.39 104.10	62.98
23 33 13 19-0239	EA		32" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	564.57 197.05 109.47	66.50
23 33 13 19-0240	EA		36" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	388.01 155.61 86.45	33.17
23 33 13 19-0241	EA		36" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	400.37 158.14 87.86	35.78
23 33 13 19-0242	EA		36" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	412.72 160.66 89.26	38.40
23 33 13 19-0243	EA		36" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	427.43 164.47 91.37	40.85
23 33 13 19-0244	EA		36" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	446.32 166.37 92.43	46.08
23 33 13 19-0245	EA		36" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	457.52 168.27 93.49	48.53
23 33 13 19-0246	EA		36" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	492.28 174.60 97.00	56.21
23 33 13 19-0247	EA		36" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	519.35 180.93 100.52	61.44
23 33 13 19-0248	EA		36" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	539.57 188.53 104.74	63.43
23 33 13 19-0249	EA		36" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	572.15 198.65 110.36	68.04
23 33 13 19-0250	EA		36" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	599.31 207.52 115.29	71.57
23 33 13 19-0251	EA		36" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	625.75 217.65 120.92	74.18
23 33 13 19-0252	EA		40" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	446.92 183.28 101.82	38.40
23 33 13 19-0253	EA		40" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	463.97 188.34 104.63	40.85
23 33 13 19-0254	EA		40" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	473.98 189.60 105.34	43.46
23 33 13 19-0255	EA		40" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	484.01 190.87 106.04	46.08
23 33 13 19-0256	EA		40" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	507.58 195.31 108.50	48.53
23 33 13 19-0257	EA		40" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	523.48 199.75 110.97	51.14
23 33 13 19-0258	EA		40" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	555.89 204.81 113.78	58.82
23 33 13 19-0259	EA		40" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	580.64 209.88 116.60	63.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0260 EA 40" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	607.00 217.47 120.82	68.04
23 33 13 19-0261 EA 40" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	643.53 231.40 128.55	71.57
23 33 13 19-0262 EA 40" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	669.86 238.98 132.77	75.72
23 33 13 19-0263 EA 40" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	701.82 252.91 140.51	77.71
23 33 13 19-0264 EA 40" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	737.56 265.58 147.55	81.86
23 33 13 19-0265 EA 44" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	459.29 185.81 103.23	38.40
23 33 13 19-0266 EA 44" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	476.33 190.87 106.04	40.85
23 33 13 19-0267 EA 44" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	491.06 194.68 108.16	43.46
23 33 13 19-0268 EA 44" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	501.09 195.95 108.86	46.08
23 33 13 19-0269 EA 44" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	518.14 201.01 111.67	48.53
23 33 13 19-0270 EA 44" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	535.20 206.07 114.49	51.14
23 33 13 19-0271 EA 44" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	577.65 212.41 118.01	61.44
23 33 13 19-0272 EA 44" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	604.72 218.73 121.52	66.50
23 33 13 19-0273 EA 44" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	643.53 231.40 128.55	71.57
23 33 13 19-0274 EA 44" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	680.00 242.79 134.89	76.80
23 33 13 19-0275 EA 44" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	718.78 255.44 141.91	81.86
23 33 13 19-0276 EA 44" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	747.57 266.84 148.25	84.32
23 33 13 19-0277 EA 44" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	776.36 278.24 154.58	86.93
23 33 13 19-0278 EA 44" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	805.15 289.64 160.91	89.54
23 33 13 19-0279 EA 48" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	473.98 189.60 105.34	40.85
23 33 13 19-0280 EA 48" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	491.06 194.68 108.16	43.46
23 33 13 19-0281 EA 48" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	501.09 195.95 108.86	46.08
23 33 13 19-0282 EA 48" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	523.48 199.75 110.97	51.14
23 33 13 19-0283 EA 48" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	548.21 204.81 113.78	56.21
23 33 13 19-0284 EA 48" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	572.96 209.88 116.60	61.44
23 33 13 19-0285 EA 48" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	602.38 217.47 120.82	66.50
23 33 13 19-0286 EA 48" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	631.79 225.06 125.03	71.57
23 33 13 19-0287 EA 48" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated ..... <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	668.26 236.46 131.36	76.80

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0288 EA 48" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	709.41	81.86
For Dynamic Damper, Add	250.38	
For 3 Hour Rated, Add	139.10	
23 33 13 19-0289 EA 48" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	738.21	84.32
For Dynamic Damper, Add	261.79	
For 3 Hour Rated, Add	145.44	
23 33 13 19-0290 EA 48" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	774.01	86.93
For Dynamic Damper, Add	276.97	
For 3 Hour Rated, Add	153.87	
23 33 13 19-0291 EA 48" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	810.48	92.00
For Dynamic Damper, Add	288.37	
For 3 Hour Rated, Add	160.21	
23 33 13 19-0292 EA 48" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	846.29	94.61
For Dynamic Damper, Add	303.56	
For 3 Hour Rated, Add	168.65	
23 33 13 19-0293 EA 48" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	888.10	102.29
For Dynamic Damper, Add	313.70	
For 3 Hour Rated, Add	174.28	
23 33 13 19-0294 EA 52" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	488.72	43.46
For Dynamic Damper, Add	193.42	
For 3 Hour Rated, Add	107.45	
23 33 13 19-0295 EA 52" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	505.77	46.08
For Dynamic Damper, Add	198.48	
For 3 Hour Rated, Add	110.27	
23 33 13 19-0296 EA 52" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	530.50	51.14
For Dynamic Damper, Add	203.54	
For 3 Hour Rated, Add	113.08	
23 33 13 19-0297 EA 52" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	548.21	56.21
For Dynamic Damper, Add	204.81	
For 3 Hour Rated, Add	113.78	
23 33 13 19-0298 EA 52" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	574.13	61.44
For Dynamic Damper, Add	210.51	
For 3 Hour Rated, Add	116.95	
23 33 13 19-0299 EA 52" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	600.04	66.50
For Dynamic Damper, Add	216.21	
For 3 Hour Rated, Add	120.11	
23 33 13 19-0300 EA 52" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	629.46	71.57
For Dynamic Damper, Add	223.80	
For 3 Hour Rated, Add	124.33	
23 33 13 19-0301 EA 52" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	658.89	76.80
For Dynamic Damper, Add	231.40	
For 3 Hour Rated, Add	128.55	
23 33 13 19-0302 EA 52" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	695.36	81.86
For Dynamic Damper, Add	242.79	
For 3 Hour Rated, Add	134.89	
23 33 13 19-0303 EA 52" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	738.84	86.93
For Dynamic Damper, Add	257.98	
For 3 Hour Rated, Add	143.32	
23 33 13 19-0304 EA 52" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	769.96	89.54
For Dynamic Damper, Add	270.64	
For 3 Hour Rated, Add	150.35	
23 33 13 19-0305 EA 52" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	808.13	92.00
For Dynamic Damper, Add	287.10	
For 3 Hour Rated, Add	159.50	
23 33 13 19-0306 EA 52" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	851.61	97.22
For Dynamic Damper, Add	302.29	
For 3 Hour Rated, Add	167.94	
23 33 13 19-0307 EA 52" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	888.10	102.29
For Dynamic Damper, Add	313.70	
For 3 Hour Rated, Add	174.28	
23 33 13 19-0308 EA 52" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	939.27	109.97
For Dynamic Damper, Add	328.89	
For 3 Hour Rated, Add	182.72	
23 33 13 19-0309 EA 52" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	978.07	115.03
For Dynamic Damper, Add	341.56	
For 3 Hour Rated, Add	189.75	
23 33 13 19-0310 EA 56" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	501.09	46.08
For Dynamic Damper, Add	195.95	
For 3 Hour Rated, Add	108.86	
23 33 13 19-0311 EA 56" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	528.15	51.14
For Dynamic Damper, Add	202.27	
For 3 Hour Rated, Add	112.37	
23 33 13 19-0312 EA 56" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	550.56	56.21
For Dynamic Damper, Add	206.07	
For 3 Hour Rated, Add	114.49	
23 33 13 19-0313 EA 56" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	568.25	61.44
For Dynamic Damper, Add	207.33	
For 3 Hour Rated, Add	115.19	
23 33 13 19-0314 EA 56" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	596.52	66.50
For Dynamic Damper, Add	214.30	
For 3 Hour Rated, Add	119.06	
23 33 13 19-0315 EA 56" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....	624.77	71.57
For Dynamic Damper, Add	221.27	
For 3 Hour Rated, Add	122.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0316 EA 56" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	653.02 228.23 126.79	76.80
23 33 13 19-0317 EA 56" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	681.28 235.19 130.66	81.86
23 33 13 19-0318 EA 56" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	724.77 250.38 139.10	86.93
23 33 13 19-0319 EA 56" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	760.60 265.58 147.55	89.54
23 33 13 19-0320 EA 56" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	794.07 279.51 155.28	92.00
23 33 13 19-0321 EA 56" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	842.25 297.23 165.13	97.22
23 33 13 19-0322 EA 56" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	885.75 312.43 173.57	102.29
23 33 13 19-0323 EA 56" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	931.59 328.89 182.72	107.35
23 33 13 19-0324 EA 56" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	970.41 341.56 189.75	112.58
23 33 13 19-0325 EA 56" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,016.23 358.01 198.90	117.65
23 33 13 19-0326 EA 56" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,062.07 374.47 208.04	122.71
23 33 13 19-0327 EA 60" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	523.48 199.75 110.97	51.14
23 33 13 19-0328 EA 60" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	550.56 206.07 114.49	56.21
23 33 13 19-0329 EA 60" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	570.59 208.60 115.89	61.44
23 33 13 19-0330 EA 60" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	588.32 209.88 116.60	66.50
23 33 13 19-0331 EA 60" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	617.74 217.47 120.82	71.57
23 33 13 19-0332 EA 60" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	647.15 225.06 125.03	76.80
23 33 13 19-0333 EA 60" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	677.76 233.29 129.61	81.86
23 33 13 19-0334 EA 60" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	708.36 241.52 134.18	86.93
23 33 13 19-0335 EA 60" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	746.52 257.98 143.32	89.54
23 33 13 19-0336 EA 60" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	782.33 273.17 151.76	92.00
23 33 13 19-0337 EA 60" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	828.19 289.64 160.91	97.22
23 33 13 19-0338 EA 60" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	874.03 306.10 170.06	102.29
23 33 13 19-0339 EA 60" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	912.83 318.76 177.09	107.35
23 33 13 19-0340 EA 60" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	965.69 339.01 188.34	112.58
23 33 13 19-0341 EA 60" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,013.86 356.73 198.19	117.65
23 33 13 19-0342 EA 60" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,062.07 374.47 208.04	122.71
23 33 13 19-0343 EA 60" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add For 3 Hour Rated, Add</i>	1,105.53 389.65 216.47	127.94

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

23 33 13 19-0344	EA	60" x 60" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated For Dynamic Damper, Add For 3 Hour Rated, Add	1,149.05 404.85 224.92	133.01
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**23 33 13 23 Backdraft Dampers (23 33 13)****23 33 13 23-0001 Horizontally Mounted Backdraft Damper (23 33 13 23)**

Note: Galvanized steel frame, aluminum blades. Exclude motor pack.

23 33 13 23-0002	EA	6" x 6" Horizontally Mounted Backdraft Damper	115.99	17.05
23 33 13 23-0003	EA	8" x 6" Horizontally Mounted Backdraft Damper	139.89	17.81
23 33 13 23-0004	EA	8" x 8" Horizontally Mounted Backdraft Damper	169.02	17.97
23 33 13 23-0005	EA	10" x 6" Horizontally Mounted Backdraft Damper	161.83	17.97
23 33 13 23-0006	EA	10" x 8" Horizontally Mounted Backdraft Damper	154.78	18.44
23 33 13 23-0007	EA	10" x 10" Horizontally Mounted Backdraft Damper	185.79	20.43
23 33 13 23-0008	EA	12" x 6" Horizontally Mounted Backdraft Damper	144.84	18.44
23 33 13 23-0009	EA	12" x 8" Horizontally Mounted Backdraft Damper	180.82	20.43
23 33 13 23-0010	EA	12" x 10" Horizontally Mounted Backdraft Damper	173.17	21.50
23 33 13 23-0011	EA	12" x 12" Horizontally Mounted Backdraft Damper	199.54	23.04
23 33 13 23-0012	EA	14" x 6" Horizontally Mounted Backdraft Damper	162.82	19.50
23 33 13 23-0013	EA	14" x 8" Horizontally Mounted Backdraft Damper	165.92	21.50
23 33 13 23-0014	EA	14" x 10" Horizontally Mounted Backdraft Damper	195.93	23.04
23 33 13 23-0015	EA	14" x 12" Horizontally Mounted Backdraft Damper	174.34	25.65
23 33 13 23-0016	EA	14" x 14" Horizontally Mounted Backdraft Damper	198.28	28.11
23 33 13 23-0017	EA	16" x 6" Horizontally Mounted Backdraft Damper	180.82	20.43
23 33 13 23-0018	EA	16" x 8" Horizontally Mounted Backdraft Damper	185.04	23.04
23 33 13 23-0019	EA	16" x 10" Horizontally Mounted Backdraft Damper	169.70	25.65
23 33 13 23-0020	EA	16" x 12" Horizontally Mounted Backdraft Damper	188.26	25.65
23 33 13 23-0021	EA	16" x 14" Horizontally Mounted Backdraft Damper	214.54	28.11
23 33 13 23-0022	EA	16" x 16" Horizontally Mounted Backdraft Damper	240.78	30.72
23 33 13 23-0023	EA	18" x 6" Horizontally Mounted Backdraft Damper	162.32	21.50
23 33 13 23-0024	EA	18" x 8" Horizontally Mounted Backdraft Damper	152.71	23.04
23 33 13 23-0025	EA	18" x 10" Horizontally Mounted Backdraft Damper	181.29	25.65
23 33 13 23-0026	EA	18" x 12" Horizontally Mounted Backdraft Damper	209.87	28.11
23 33 13 23-0027	EA	18" x 14" Horizontally Mounted Backdraft Damper	238.44	30.72
23 33 13 23-0028	EA	18" x 16" Horizontally Mounted Backdraft Damper	272.39	33.17
23 33 13 23-0029	EA	18" x 18" Horizontally Mounted Backdraft Damper	309.31	38.40
23 33 13 23-0030	EA	18" x 20" Horizontally Mounted Backdraft Damper	253.67	40.85
23 33 13 23-0031	EA	18" x 24" Horizontally Mounted Backdraft Damper	295.18	46.08
23 33 13 23-0032	EA	20" x 6" Horizontally Mounted Backdraft Damper	177.79	23.04
23 33 13 23-0033	EA	20" x 8" Horizontally Mounted Backdraft Damper	169.70	25.65
23 33 13 23-0034	EA	20" x 10" Horizontally Mounted Backdraft Damper	200.58	28.11
23 33 13 23-0035	EA	20" x 12" Horizontally Mounted Backdraft Damper	231.50	30.72
23 33 13 23-0036	EA	20" x 14" Horizontally Mounted Backdraft Damper	267.60	33.17
23 33 13 23-0037	EA	20" x 16" Horizontally Mounted Backdraft Damper	299.24	35.78
23 33 13 23-0038	EA	20" x 18" Horizontally Mounted Backdraft Damper	253.67	40.85
23 33 13 23-0039	EA	20" x 20" Horizontally Mounted Backdraft Damper	268.20	40.85
23 33 13 23-0040	EA	20" x 24" Horizontally Mounted Backdraft Damper	312.62	46.08
23 33 13 23-0041	EA	20" x 28" Horizontally Mounted Backdraft Damper	357.04	51.14
23 33 13 23-0042	EA	20" x 32" Horizontally Mounted Backdraft Damper	335.03	56.21
23 33 13 23-0043	EA	20" x 36" Horizontally Mounted Backdraft Damper	371.13	61.44
23 33 13 23-0044	EA	24" x 6" Horizontally Mounted Backdraft Damper	160.39	25.65
23 33 13 23-0045	EA	24" x 8" Horizontally Mounted Backdraft Damper	195.94	28.11
23 33 13 23-0046	EA	24" x 10" Horizontally Mounted Backdraft Damper	231.50	30.72
23 33 13 23-0047	EA	24" x 12" Horizontally Mounted Backdraft Damper	272.39	33.17
23 33 13 23-0048	EA	24" x 14" Horizontally Mounted Backdraft Damper	237.28	38.40
23 33 13 23-0049	EA	24" x 16" Horizontally Mounted Backdraft Damper	262.38	40.85
23 33 13 23-0050	EA	24" x 18" Horizontally Mounted Backdraft Damper	295.18	46.08
23 33 13 23-0051	EA	24" x 20" Horizontally Mounted Backdraft Damper	312.62	46.08
23 33 13 23-0052	EA	24" x 24" Horizontally Mounted Backdraft Damper	362.86	51.14
23 33 13 23-0053	EA	24" x 28" Horizontally Mounted Backdraft Damper	343.31	56.21
23 33 13 23-0054	EA	24" x 32" Horizontally Mounted Backdraft Damper	383.60	61.44
23 33 13 23-0055	EA	24" x 36" Horizontally Mounted Backdraft Damper	423.86	66.50
23 33 13 23-0056	EA	24" x 40" Horizontally Mounted Backdraft Damper	414.32	71.57
23 33 13 23-0057	EA	24" x 44" Horizontally Mounted Backdraft Damper	449.61	76.80
23 33 13 23-0058	EA	24" x 48" Horizontally Mounted Backdraft Damper	469.53	76.80
23 33 13 23-0059	EA	28" x 6" Horizontally Mounted Backdraft Damper	174.34	25.65
23 33 13 23-0060	EA	28" x 8" Horizontally Mounted Backdraft Damper	214.54	28.11
23 33 13 23-0061	EA	28" x 10" Horizontally Mounted Backdraft Damper	267.60	33.17
23 33 13 23-0062	EA	28" x 12" Horizontally Mounted Backdraft Damper	237.28	38.40
23 33 13 23-0063	EA	28" x 14" Horizontally Mounted Backdraft Damper	265.29	40.85
23 33 13 23-0064	EA	28" x 16" Horizontally Mounted Backdraft Damper	301.00	46.08
23 33 13 23-0065	EA	28" x 18" Horizontally Mounted Backdraft Damper	336.71	51.14
23 33 13 23-0066	EA	28" x 20" Horizontally Mounted Backdraft Damper	357.04	51.14
23 33 13 23-0067	EA	28" x 24" Horizontally Mounted Backdraft Damper	343.31	56.21
23 33 13 23-0068	EA	28" x 28" Horizontally Mounted Backdraft Damper	387.76	61.44
23 33 13 23-0069	EA	28" x 32" Horizontally Mounted Backdraft Damper	432.17	66.50
23 33 13 23-0070	EA	28" x 36" Horizontally Mounted Backdraft Damper	439.63	76.80
23 33 13 23-0071	EA	28" x 40" Horizontally Mounted Backdraft Damper	462.89	76.80
23 33 13 23-0072	EA	28" x 44" Horizontally Mounted Backdraft Damper	501.49	81.86
23 33 13 23-0073	EA	28" x 48" Horizontally Mounted Backdraft Damper	540.11	86.93
23 33 13 23-0074	EA	28" x 52" Horizontally Mounted Backdraft Damper	563.37	86.93





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0075	EA			28" x 56" Horizontally Mounted Backdraft Damper.....	561.29	92.00
23 33 13 23-0076	EA			28" x 60" Horizontally Mounted Backdraft Damper.....	581.61	92.00
23 33 13 23-0077	EA			32" x 6" Horizontally Mounted Backdraft Damper.....	195.94	28.11
23 33 13 23-0078	EA			32" x 8" Horizontally Mounted Backdraft Damper.....	253.22	33.17
23 33 13 23-0079	EA			32" x 10" Horizontally Mounted Backdraft Damper.....	299.24	35.78
23 33 13 23-0080	EA			32" x 12" Horizontally Mounted Backdraft Damper.....	262.38	40.85
23 33 13 23-0081	EA			32" x 14" Horizontally Mounted Backdraft Damper.....	301.00	46.08
23 33 13 23-0082	EA			32" x 16" Horizontally Mounted Backdraft Damper.....	339.60	51.14
23 33 13 23-0083	EA			32" x 18" Horizontally Mounted Backdraft Damper.....	303.05	51.14
23 33 13 23-0084	EA			32" x 20" Horizontally Mounted Backdraft Damper.....	335.03	56.21
23 33 13 23-0085	EA			32" x 24" Horizontally Mounted Backdraft Damper.....	383.60	61.44
23 33 13 23-0086	EA			32" x 28" Horizontally Mounted Backdraft Damper.....	432.17	66.50
23 33 13 23-0087	EA			32" x 32" Horizontally Mounted Backdraft Damper.....	442.97	76.80
23 33 13 23-0088	EA			32" x 36" Horizontally Mounted Backdraft Damper.....	469.53	76.80
23 33 13 23-0089	EA			32" x 40" Horizontally Mounted Backdraft Damper.....	511.46	81.86
23 33 13 23-0090	EA			32" x 44" Horizontally Mounted Backdraft Damper.....	553.39	86.93
23 33 13 23-0091	EA			32" x 48" Horizontally Mounted Backdraft Damper.....	555.47	92.00
23 33 13 23-0092	EA			32" x 52" Horizontally Mounted Backdraft Damper.....	578.73	92.00
23 33 13 23-0093	EA			32" x 56" Horizontally Mounted Backdraft Damper.....	617.32	97.22
23 33 13 23-0094	EA			32" x 60" Horizontally Mounted Backdraft Damper.....	640.59	97.22
23 33 13 23-0095	EA			32" x 64" Horizontally Mounted Backdraft Damper.....	626.04	102.29
23 33 13 23-0096	EA			32" x 68" Horizontally Mounted Backdraft Damper.....	645.97	102.29
23 33 13 23-0097	EA			32" x 72" Horizontally Mounted Backdraft Damper.....	681.26	107.35
23 33 13 23-0098	EA			36" x 6" Horizontally Mounted Backdraft Damper.....	209.87	28.11
23 33 13 23-0099	EA			36" x 8" Horizontally Mounted Backdraft Damper.....	280.07	35.78
23 33 13 23-0100	EA			36" x 10" Horizontally Mounted Backdraft Damper.....	253.67	40.85
23 33 13 23-0101	EA			36" x 12" Horizontally Mounted Backdraft Damper.....	295.18	46.08
23 33 13 23-0102	EA			36" x 14" Horizontally Mounted Backdraft Damper.....	336.71	51.14
23 33 13 23-0103	EA			36" x 16" Horizontally Mounted Backdraft Damper.....	303.05	51.14
23 33 13 23-0104	EA			36" x 18" Horizontally Mounted Backdraft Damper.....	337.09	56.21
23 33 13 23-0105	EA			36" x 20" Horizontally Mounted Backdraft Damper.....	371.13	61.44
23 33 13 23-0106	EA			36" x 24" Horizontally Mounted Backdraft Damper.....	423.86	66.50
23 33 13 23-0107	EA			36" x 28" Horizontally Mounted Backdraft Damper.....	439.63	76.80
23 33 13 23-0108	EA			36" x 32" Horizontally Mounted Backdraft Damper.....	469.53	76.80
23 33 13 23-0109	EA			36" x 36" Horizontally Mounted Backdraft Damper.....	514.77	81.86
23 33 13 23-0110	EA			36" x 40" Horizontally Mounted Backdraft Damper.....	560.04	86.93
23 33 13 23-0111	EA			36" x 44" Horizontally Mounted Backdraft Damper.....	564.17	92.00
23 33 13 23-0112	EA			36" x 48" Horizontally Mounted Backdraft Damper.....	605.71	97.22
23 33 13 23-0113	EA			36" x 52" Horizontally Mounted Backdraft Damper.....	631.85	97.22
23 33 13 23-0114	EA			36" x 56" Horizontally Mounted Backdraft Damper.....	621.07	102.29
23 33 13 23-0115	EA			36" x 60" Horizontally Mounted Backdraft Damper.....	643.48	102.29
23 33 13 23-0116	EA			36" x 64" Horizontally Mounted Backdraft Damper.....	681.26	107.35
23 33 13 23-0117	EA			36" x 68" Horizontally Mounted Backdraft Damper.....	703.67	107.35
23 33 13 23-0118	EA			36" x 72" Horizontally Mounted Backdraft Damper.....	726.12	107.35
23 33 13 23-0119	EA			40" x 6" Horizontally Mounted Backdraft Damper.....	231.50	30.72
23 33 13 23-0120	EA			40" x 8" Horizontally Mounted Backdraft Damper.....	306.92	38.40
23 33 13 23-0121	EA			40" x 10" Horizontally Mounted Backdraft Damper.....	268.20	40.85
23 33 13 23-0122	EA			40" x 12" Horizontally Mounted Backdraft Damper.....	312.62	46.08
23 33 13 23-0123	EA			40" x 14" Horizontally Mounted Backdraft Damper.....	357.04	51.14
23 33 13 23-0124	EA			40" x 16" Horizontally Mounted Backdraft Damper.....	335.03	56.21
23 33 13 23-0125	EA			40" x 18" Horizontally Mounted Backdraft Damper.....	371.13	61.44
23 33 13 23-0126	EA			40" x 20" Horizontally Mounted Backdraft Damper.....	407.24	66.50
23 33 13 23-0127	EA			40" x 24" Horizontally Mounted Backdraft Damper.....	414.32	71.57
23 33 13 23-0128	EA			40" x 28" Horizontally Mounted Backdraft Damper.....	462.89	76.80
23 33 13 23-0129	EA			40" x 32" Horizontally Mounted Backdraft Damper.....	511.46	81.86
23 33 13 23-0130	EA			40" x 36" Horizontally Mounted Backdraft Damper.....	560.04	86.93
23 33 13 23-0131	EA			40" x 40" Horizontally Mounted Backdraft Damper.....	567.08	92.00
23 33 13 23-0132	EA			40" x 44" Horizontally Mounted Backdraft Damper.....	611.50	97.22
23 33 13 23-0133	EA			40" x 48" Horizontally Mounted Backdraft Damper.....	640.59	97.22
23 33 13 23-0134	EA			40" x 50" Horizontally Mounted Backdraft Damper.....	618.58	102.29
23 33 13 23-0135	EA			44" x 6" Horizontally Mounted Backdraft Damper.....	258.01	33.17
23 33 13 23-0136	EA			44" x 8" Horizontally Mounted Backdraft Damper.....	250.76	40.85
23 33 13 23-0137	EA			44" x 10" Horizontally Mounted Backdraft Damper.....	298.09	46.08
23 33 13 23-0138	EA			44" x 12" Horizontally Mounted Backdraft Damper.....	345.42	51.14
23 33 13 23-0139	EA			44" x 14" Horizontally Mounted Backdraft Damper.....	328.78	56.21
23 33 13 23-0140	EA			44" x 16" Horizontally Mounted Backdraft Damper.....	366.98	61.44
23 33 13 23-0141	EA			44" x 18" Horizontally Mounted Backdraft Damper.....	389.82	61.44
23 33 13 23-0142	EA			44" x 20" Horizontally Mounted Backdraft Damper.....	428.02	66.50
23 33 13 23-0143	EA			44" x 24" Horizontally Mounted Backdraft Damper.....	449.61	76.80
23 33 13 23-0144	EA			44" x 28" Horizontally Mounted Backdraft Damper.....	501.49	81.86
23 33 13 23-0145	EA			44" x 32" Horizontally Mounted Backdraft Damper.....	553.39	86.93
23 33 13 23-0146	EA			44" x 36" Horizontally Mounted Backdraft Damper.....	564.17	92.00
23 33 13 23-0147	EA			44" x 40" Horizontally Mounted Backdraft Damper.....	611.50	97.22
23 33 13 23-0148	EA			44" x 44" Horizontally Mounted Backdraft Damper.....	643.47	97.22
23 33 13 23-0149	EA			44" x 48" Horizontally Mounted Backdraft Damper.....	636.02	102.29
23 33 13 23-0150	EA			44" x 50" Horizontally Mounted Backdraft Damper.....	649.70	102.29
23 33 13 23-0151	EA			48" x 6" Horizontally Mounted Backdraft Damper.....	280.07	35.78
23 33 13 23-0152	EA			48" x 8" Horizontally Mounted Backdraft Damper.....	262.38	40.85
23 33 13 23-0153	EA			48" x 10" Horizontally Mounted Backdraft Damper.....	312.62	46.08
23 33 13 23-0154	EA			48" x 12" Horizontally Mounted Backdraft Damper.....	303.05	51.14
23 33 13 23-0155	EA			48" x 14" Horizontally Mounted Backdraft Damper.....	343.31	56.21



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 33 13 23-0156	EA		48" x 16" Horizontally Mounted Backdraft Damper .....	383.60	61.44
23 33 13 23-0157	EA		48" x 18" Horizontally Mounted Backdraft Damper .....	423.86	66.50
23 33 13 23-0158	EA		48" x 20" Horizontally Mounted Backdraft Damper .....	414.32	71.57
23 33 13 23-0159	EA		48" x 24" Horizontally Mounted Backdraft Damper .....	469.53	76.80
23 33 13 23-0160	EA		48" x 28" Horizontally Mounted Backdraft Damper .....	540.11	86.93
23 33 13 23-0161	EA		48" x 32" Horizontally Mounted Backdraft Damper .....	555.47	92.00
23 33 13 23-0162	EA		48" x 36" Horizontally Mounted Backdraft Damper .....	605.71	97.22
23 33 13 23-0163	EA		48" x 40" Horizontally Mounted Backdraft Damper .....	640.59	97.22
23 33 13 23-0164	EA		48" x 44" Horizontally Mounted Backdraft Damper .....	636.02	102.29
23 33 13 23-0165	EA		48" x 48" Horizontally Mounted Backdraft Damper .....	681.26	107.35
23 33 13 23-0166	EA		48" x 50" Horizontally Mounted Backdraft Damper .....	696.21	107.35
23 33 13 23-0167	EA		50" x 6" Horizontally Mounted Backdraft Damper .....	287.26	35.78
23 33 13 23-0168	EA		50" x 8" Horizontally Mounted Backdraft Damper .....	283.56	46.08
23 33 13 23-0169	EA		50" x 10" Horizontally Mounted Backdraft Damper .....	335.26	51.14
23 33 13 23-0170	EA		50" x 12" Horizontally Mounted Backdraft Damper .....	324.63	56.21
23 33 13 23-0171	EA		50" x 14" Horizontally Mounted Backdraft Damper .....	365.95	61.44
23 33 13 23-0172	EA		50" x 16" Horizontally Mounted Backdraft Damper .....	407.24	66.50
23 33 13 23-0173	EA		50" x 18" Horizontally Mounted Backdraft Damper .....	448.56	71.57
23 33 13 23-0174	EA		50" x 20" Horizontally Mounted Backdraft Damper .....	437.96	76.80
23 33 13 23-0175	EA		50" x 24" Horizontally Mounted Backdraft Damper .....	494.84	81.86
23 33 13 23-0176	EA		50" x 28" Horizontally Mounted Backdraft Damper .....	551.72	86.93
23 33 13 23-0177	EA		50" x 32" Horizontally Mounted Backdraft Damper .....	567.08	92.00
23 33 13 23-0178	EA		50" x 36" Horizontally Mounted Backdraft Damper .....	618.78	97.22
23 33 13 23-0179	EA		50" x 40" Horizontally Mounted Backdraft Damper .....	618.58	102.29
23 33 13 23-0180	EA		50" x 44" Horizontally Mounted Backdraft Damper .....	649.70	102.29
23 33 13 23-0181	EA		50" x 48" Horizontally Mounted Backdraft Damper .....	696.21	107.35
23 33 13 23-0182	EA		50" x 50" Horizontally Mounted Backdraft Damper .....	711.77	107.35

### 23 33 13 23-0183 Vertically Mounted Backdraft Damper (23 33 13 23)

Note: Galvanized steel frame, aluminum blades. Excludes motor pack.

23 33 13 23-0184	EA		6" x 6" Vertically Mounted Backdraft Damper .....	125.81	17.05
23 33 13 23-0185	EA		8" x 6" Vertically Mounted Backdraft Damper .....	153.02	17.81
23 33 13 23-0186	EA		10" x 6" Vertically Mounted Backdraft Damper .....	157.49	17.97
23 33 13 23-0187	EA		8" x 8" Vertically Mounted Backdraft Damper .....	164.40	17.97
23 33 13 23-0188	EA		12" x 6" Vertically Mounted Backdraft Damper .....	179.78	18.44
23 33 13 23-0189	EA		10" x 8" Vertically Mounted Backdraft Damper .....	199.75	20.43
23 33 13 23-0190	EA		14" x 6" Vertically Mounted Backdraft Damper .....	200.52	18.44
23 33 13 23-0191	EA		12" x 8" Vertically Mounted Backdraft Damper .....	227.41	20.43
23 33 13 23-0192	EA		16" x 6" Vertically Mounted Backdraft Damper .....	230.47	21.50
23 33 13 23-0193	EA		10" x 10" Vertically Mounted Backdraft Damper .....	242.00	23.04
23 33 13 23-0194	EA		18" x 6" Vertically Mounted Backdraft Damper .....	194.85	19.50
23 33 13 23-0195	EA		14" x 8" Vertically Mounted Backdraft Damper .....	206.05	21.50
23 33 13 23-0196	EA		12" x 10" Vertically Mounted Backdraft Damper .....	220.77	23.04
23 33 13 23-0197	EA		20" x 6" Vertically Mounted Backdraft Damper .....	228.45	25.65
23 33 13 23-0198	EA		16" x 8" Vertically Mounted Backdraft Damper .....	246.23	28.11
23 33 13 23-0199	EA		14" x 10" Vertically Mounted Backdraft Damper .....	238.36	20.43
23 33 13 23-0200	EA		12" x 12" Vertically Mounted Backdraft Damper .....	251.10	23.04
23 33 13 23-0201	EA		18" x 8" Vertically Mounted Backdraft Damper .....	221.66	25.65
23 33 13 23-0202	EA		24" x 6" Vertically Mounted Backdraft Damper .....	221.66	25.65
23 33 13 23-0203	EA		16" x 10" Vertically Mounted Backdraft Damper .....	245.41	28.11
23 33 13 23-0204	EA		20" x 8" Vertically Mounted Backdraft Damper .....	253.09	30.72
23 33 13 23-0205	EA		14" x 12" Vertically Mounted Backdraft Damper .....	233.47	21.50
23 33 13 23-0206	EA		28" x 6" Vertically Mounted Backdraft Damper .....	238.09	23.04
23 33 13 23-0207	EA		18" x 10" Vertically Mounted Backdraft Damper .....	257.84	25.65
23 33 13 23-0208	EA		16" x 12" Vertically Mounted Backdraft Damper .....	277.59	28.11
23 33 13 23-0209	EA		24" x 8" Vertically Mounted Backdraft Damper .....	285.27	30.72
23 33 13 23-0210	EA		32" x 6" Vertically Mounted Backdraft Damper .....	292.95	33.17
23 33 13 23-0211	EA		14" x 14" Vertically Mounted Backdraft Damper .....	312.35	38.40
23 33 13 23-0212	EA		20" x 10" Vertically Mounted Backdraft Damper .....	310.06	40.85
23 33 13 23-0213	EA		18" x 12" Vertically Mounted Backdraft Damper .....	340.40	46.08
23 33 13 23-0214	EA		36" x 6" Vertically Mounted Backdraft Damper .....	271.30	23.04
23 33 13 23-0215	EA		16" x 14" Vertically Mounted Backdraft Damper .....	286.47	25.65
23 33 13 23-0216	EA		28" x 8" Vertically Mounted Backdraft Damper .....	294.15	28.11
23 33 13 23-0217	EA		20" x 12" Vertically Mounted Backdraft Damper .....	316.79	30.72
23 33 13 23-0218	EA		24" x 10" Vertically Mounted Backdraft Damper .....	324.47	33.17
23 33 13 23-0219	EA		40" x 6" Vertically Mounted Backdraft Damper .....	332.15	35.78
23 33 13 23-0220	EA		18" x 14" Vertically Mounted Backdraft Damper .....	358.74	40.85
23 33 13 23-0221	EA		16" x 16" Vertically Mounted Backdraft Damper .....	362.47	40.85
23 33 13 23-0222	EA		32" x 8" Vertically Mounted Backdraft Damper .....	377.83	46.08
23 33 13 23-0223	EA		44" x 6" Vertically Mounted Backdraft Damper .....	400.68	51.14
23 33 13 23-0224	EA		20" x 14" Vertically Mounted Backdraft Damper .....	431.02	56.21
23 33 13 23-0225	EA		28" x 10" Vertically Mounted Backdraft Damper .....	446.38	61.44
23 33 13 23-0226	EA		18" x 16" Vertically Mounted Backdraft Damper .....	346.38	25.65
23 33 13 23-0227	EA		24" x 12" Vertically Mounted Backdraft Damper .....	354.06	28.11
23 33 13 23-0228	EA		36" x 8" Vertically Mounted Backdraft Damper .....	361.74	30.72
23 33 13 23-0229	EA		48" x 6" Vertically Mounted Backdraft Damper .....	369.42	33.17
23 33 13 23-0230	EA		50" x 6" Vertically Mounted Backdraft Damper .....	396.00	38.40
23 33 13 23-0231	EA		20" x 16" Vertically Mounted Backdraft Damper .....	422.37	40.85
23 33 13 23-0232	EA		32" x 10" Vertically Mounted Backdraft Damper .....	437.73	46.08
23 33 13 23-0233	EA		40" x 8" Vertically Mounted Backdraft Damper .....	437.73	46.08



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0234	EA			18" x 18" Vertically Mounted Backdraft Damper .....	393.19	51.14
23 33 13 23-0235	EA			24" x 14" Vertically Mounted Backdraft Damper .....	375.28	56.21
23 33 13 23-0236	EA			28" x 12" Vertically Mounted Backdraft Damper .....	390.64	61.44
23 33 13 23-0237	EA			44" x 8" Vertically Mounted Backdraft Damper .....	415.82	66.50
23 33 13 23-0238	EA			18" x 20" Vertically Mounted Backdraft Damper .....	436.10	71.57
23 33 13 23-0239	EA			20" x 18" Vertically Mounted Backdraft Damper .....	451.46	76.80
23 33 13 23-0240	EA			36" x 10" Vertically Mounted Backdraft Damper .....	451.46	76.80
23 33 13 23-0241	EA			24" x 16" Vertically Mounted Backdraft Damper .....	312.62	25.65
23 33 13 23-0242	EA			32" x 12" Vertically Mounted Backdraft Damper .....	320.30	28.11
23 33 13 23-0243	EA			48" x 8" Vertically Mounted Backdraft Damper .....	335.66	33.17
23 33 13 23-0244	EA			28" x 14" Vertically Mounted Backdraft Damper .....	355.93	38.40
23 33 13 23-0245	EA			20" x 20" Vertically Mounted Backdraft Damper .....	368.51	40.85
23 33 13 23-0246	EA			40" x 10" Vertically Mounted Backdraft Damper .....	383.87	46.08
23 33 13 23-0247	EA			50" x 8" Vertically Mounted Backdraft Damper .....	399.23	51.14
23 33 13 23-0248	EA			18" x 24" Vertically Mounted Backdraft Damper .....	418.88	51.14
23 33 13 23-0249	EA			24" x 18" Vertically Mounted Backdraft Damper .....	434.24	56.21
23 33 13 23-0250	EA			36" x 12" Vertically Mounted Backdraft Damper .....	449.60	61.44
23 33 13 23-0251	EA			44" x 10" Vertically Mounted Backdraft Damper .....	469.87	66.50
23 33 13 23-0252	EA			28" x 16" Vertically Mounted Backdraft Damper .....	505.51	76.80
23 33 13 23-0253	EA			32" x 14" Vertically Mounted Backdraft Damper .....	505.51	76.80
23 33 13 23-0254	EA			20" x 24" Vertically Mounted Backdraft Damper .....	542.98	81.86
23 33 13 23-0255	EA			24" x 20" Vertically Mounted Backdraft Damper .....	513.08	86.93
23 33 13 23-0256	EA			40" x 12" Vertically Mounted Backdraft Damper .....	513.08	86.93
23 33 13 23-0257	EA			48" x 10" Vertically Mounted Backdraft Damper .....	528.44	92.00
23 33 13 23-0258	EA			50" x 10" Vertically Mounted Backdraft Damper .....	538.94	92.00
23 33 13 23-0259	EA			28" x 18" Vertically Mounted Backdraft Damper .....	349.05	28.11
23 33 13 23-0260	EA			36" x 14" Vertically Mounted Backdraft Damper .....	364.41	33.17
23 33 13 23-0261	EA			32" x 16" Vertically Mounted Backdraft Damper .....	376.31	35.78
23 33 13 23-0262	EA			44" x 12" Vertically Mounted Backdraft Damper .....	400.02	40.85
23 33 13 23-0263	EA			20" x 28" Vertically Mounted Backdraft Damper .....	432.18	46.08
23 33 13 23-0264	EA			28" x 20" Vertically Mounted Backdraft Damper .....	447.54	51.14
23 33 13 23-0265	EA			40" x 14" Vertically Mounted Backdraft Damper .....	447.54	51.14
23 33 13 23-0266	EA			24" x 24" Vertically Mounted Backdraft Damper .....	471.30	56.21
23 33 13 23-0267	EA			32" x 18" Vertically Mounted Backdraft Damper .....	486.66	61.44
23 33 13 23-0268	EA			36" x 16" Vertically Mounted Backdraft Damper .....	502.02	66.50
23 33 13 23-0269	EA			48" x 12" Vertically Mounted Backdraft Damper .....	532.74	76.80
23 33 13 23-0270	EA			50" x 12" Vertically Mounted Backdraft Damper .....	545.36	76.80
23 33 13 23-0271	EA			44" x 14" Vertically Mounted Backdraft Damper .....	569.12	81.86
23 33 13 23-0272	EA			20" x 32" Vertically Mounted Backdraft Damper .....	597.07	86.93
23 33 13 23-0273	EA			32" x 20" Vertically Mounted Backdraft Damper .....	612.43	92.00
23 33 13 23-0274	EA			40" x 16" Vertically Mounted Backdraft Damper .....	612.43	92.00
23 33 13 23-0275	EA			36" x 18" Vertically Mounted Backdraft Damper .....	631.97	97.22
23 33 13 23-0276	EA			24" x 28" Vertically Mounted Backdraft Damper .....	646.68	97.22
23 33 13 23-0277	EA			28" x 24" Vertically Mounted Backdraft Damper .....	631.62	102.29
23 33 13 23-0278	EA			48" x 14" Vertically Mounted Backdraft Damper .....	631.62	102.29
23 33 13 23-0279	EA			50" x 14" Vertically Mounted Backdraft Damper .....	660.51	107.35
23 33 13 23-0280	EA			44" x 16" Vertically Mounted Backdraft Damper .....	424.36	28.11
23 33 13 23-0281	EA			20" x 36" Vertically Mounted Backdraft Damper .....	455.14	35.78
23 33 13 23-0282	EA			36" x 20" Vertically Mounted Backdraft Damper .....	470.48	40.85
23 33 13 23-0283	EA			40" x 18" Vertically Mounted Backdraft Damper .....	485.84	46.08
23 33 13 23-0284	EA			24" x 32" Vertically Mounted Backdraft Damper .....	524.37	51.14
23 33 13 23-0285	EA			32" x 24" Vertically Mounted Backdraft Damper .....	524.37	51.14
23 33 13 23-0286	EA			48" x 16" Vertically Mounted Backdraft Damper .....	539.73	56.21
23 33 13 23-0287	EA			28" x 28" Vertically Mounted Backdraft Damper .....	562.82	61.44
23 33 13 23-0288	EA			44" x 18" Vertically Mounted Backdraft Damper .....	582.03	66.50
23 33 13 23-0289	EA			40" x 20" Vertically Mounted Backdraft Damper .....	616.61	76.80
23 33 13 23-0290	EA			50" x 16" Vertically Mounted Backdraft Damper .....	616.61	76.80
23 33 13 23-0291	EA			24" x 36" Vertically Mounted Backdraft Damper .....	662.87	81.86
23 33 13 23-0292	EA			36" x 24" Vertically Mounted Backdraft Damper .....	678.23	86.93
23 33 13 23-0293	EA			48" x 18" Vertically Mounted Backdraft Damper .....	693.59	92.00
23 33 13 23-0294	EA			44" x 20" Vertically Mounted Backdraft Damper .....	716.69	97.22
23 33 13 23-0295	EA			28" x 32" Vertically Mounted Backdraft Damper .....	724.42	97.22
23 33 13 23-0296	EA			32" x 28" Vertically Mounted Backdraft Damper .....	739.78	102.29
23 33 13 23-0297	EA			50" x 18" Vertically Mounted Backdraft Damper .....	741.69	102.29
23 33 13 23-0298	EA			24" x 40" Vertically Mounted Backdraft Damper .....	786.02	107.35
23 33 13 23-0299	EA			40" x 24" Vertically Mounted Backdraft Damper .....	786.02	107.35
23 33 13 23-0300	EA			48" x 20" Vertically Mounted Backdraft Damper .....	786.02	107.35
23 33 13 23-0301	EA			50" x 20" Vertically Mounted Backdraft Damper .....	574.96	30.72
23 33 13 23-0302	EA			28" x 36" Vertically Mounted Backdraft Damper .....	601.85	38.40
23 33 13 23-0303	EA			36" x 28" Vertically Mounted Backdraft Damper .....	609.51	40.85
23 33 13 23-0304	EA			32" x 32" Vertically Mounted Backdraft Damper .....	632.60	46.08
23 33 13 23-0305	EA			24" x 44" Vertically Mounted Backdraft Damper .....	608.29	51.14
23 33 13 23-0306	EA			44" x 24" Vertically Mounted Backdraft Damper .....	623.65	56.21
23 33 13 23-0307	EA			28" x 40" Vertically Mounted Backdraft Damper .....	666.55	61.44
23 33 13 23-0308	EA			40" x 28" Vertically Mounted Backdraft Damper .....	681.91	66.50
23 33 13 23-0309	EA			24" x 48" Vertically Mounted Backdraft Damper .....	711.07	71.57
23 33 13 23-0310	EA			32" x 36" Vertically Mounted Backdraft Damper .....	726.43	76.80
23 33 13 23-0311	EA			36" x 32" Vertically Mounted Backdraft Damper .....	741.79	81.86
23 33 13 23-0312	EA			48" x 24" Vertically Mounted Backdraft Damper .....	757.15	86.93
23 33 13 23-0313	EA			50" x 24" Vertically Mounted Backdraft Damper .....	793.17	92.00
23 33 13 23-0314	EA			28" x 44" Vertically Mounted Backdraft Damper .....	822.30	97.22

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0315 EA 44" x 28" Vertically Mounted Backdraft Damper .....	822.30	97.22
23 33 13 23-0316 EA 32" x 40" Vertically Mounted Backdraft Damper .....	858.34	102.29
23 33 13 23-0317 EA 40" x 32" Vertically Mounted Backdraft Damper .....	651.00	33.17
23 33 13 23-0318 EA 36" x 36" Vertically Mounted Backdraft Damper .....	680.91	40.85
23 33 13 23-0319 EA 28" x 48" Vertically Mounted Backdraft Damper .....	716.92	46.08
23 33 13 23-0320 EA 48" x 28" Vertically Mounted Backdraft Damper .....	732.28	51.14
23 33 13 23-0321 EA 50" x 28" Vertically Mounted Backdraft Damper .....	771.75	56.21
23 33 13 23-0322 EA 32" x 44" Vertically Mounted Backdraft Damper .....	790.57	61.44
23 33 13 23-0323 EA 44" x 32" Vertically Mounted Backdraft Damper .....	790.57	61.44
23 33 13 23-0324 EA 36" x 40" Vertically Mounted Backdraft Damper .....	821.43	66.50
23 33 13 23-0325 EA 40" x 36" Vertically Mounted Backdraft Damper .....	788.43	76.80
23 33 13 23-0326 EA 28" x 52" Vertically Mounted Backdraft Damper .....	809.97	81.86
23 33 13 23-0327 EA 32" x 48" Vertically Mounted Backdraft Damper .....	856.33	86.93
23 33 13 23-0328 EA 48" x 32" Vertically Mounted Backdraft Damper .....	871.69	92.00
23 33 13 23-0329 EA 28" x 56" Vertically Mounted Backdraft Damper .....	899.46	97.22
23 33 13 23-0330 EA 36" x 44" Vertically Mounted Backdraft Damper .....	905.67	97.22
23 33 13 23-0331 EA 44" x 36" Vertically Mounted Backdraft Damper .....	921.03	102.29
23 33 13 23-0332 EA 40" x 40" Vertically Mounted Backdraft Damper .....	927.22	102.29
23 33 13 23-0333 EA 50" x 32" Vertically Mounted Backdraft Damper .....	727.56	35.78
23 33 13 23-0334 EA 32" x 52" Vertically Mounted Backdraft Damper .....	767.71	40.85
23 33 13 23-0335 EA 28" x 60" Vertically Mounted Backdraft Damper .....	789.26	46.08
23 33 13 23-0336 EA 36" x 48" Vertically Mounted Backdraft Damper .....	823.24	51.14
23 33 13 23-0337 EA 48" x 36" Vertically Mounted Backdraft Damper .....	838.60	56.21
23 33 13 23-0338 EA 40" x 44" Vertically Mounted Backdraft Damper .....	866.37	61.44
23 33 13 23-0339 EA 44" x 40" Vertically Mounted Backdraft Damper .....	881.73	66.50
23 33 13 23-0340 EA 32" x 56" Vertically Mounted Backdraft Damper .....	909.46	71.57
23 33 13 23-0341 EA 50" x 36" Vertically Mounted Backdraft Damper .....	850.42	76.80
23 33 13 23-0342 EA 36" x 52" Vertically Mounted Backdraft Damper .....	905.95	86.93
23 33 13 23-0343 EA 32" x 60" Vertically Mounted Backdraft Damper .....	937.84	92.00
23 33 13 23-0344 EA 40" x 48" Vertically Mounted Backdraft Damper .....	953.20	97.22
23 33 13 23-0345 EA 48" x 40" Vertically Mounted Backdraft Damper .....	953.20	97.22
23 33 13 23-0346 EA 44" x 44" Vertically Mounted Backdraft Damper .....	974.08	102.29
23 33 13 23-0347 EA 40" x 50" Vertically Mounted Backdraft Damper .....	1,011.49	107.35
23 33 13 23-0348 EA 50" x 40" Vertically Mounted Backdraft Damper .....	1,011.49	107.35
23 33 13 23-0349 EA 36" x 56" Vertically Mounted Backdraft Damper .....	801.96	35.78
23 33 13 23-0350 EA 32" x 64" Vertically Mounted Backdraft Damper .....	843.70	46.08
23 33 13 23-0351 EA 44" x 48" Vertically Mounted Backdraft Damper .....	881.11	51.14
23 33 13 23-0352 EA 48" x 44" Vertically Mounted Backdraft Damper .....	896.47	56.21
23 33 13 23-0353 EA 36" x 60" Vertically Mounted Backdraft Damper .....	928.36	61.44
23 33 13 23-0354 EA 32" x 68" Vertically Mounted Backdraft Damper .....	949.24	66.50
23 33 13 23-0355 EA 44" x 50" Vertically Mounted Backdraft Damper .....	878.13	71.57
23 33 13 23-0356 EA 50" x 44" Vertically Mounted Backdraft Damper .....	893.49	76.80
23 33 13 23-0357 EA 32" x 72" Vertically Mounted Backdraft Damper .....	940.18	81.86
23 33 13 23-0358 EA 36" x 64" Vertically Mounted Backdraft Damper .....	955.54	86.93
23 33 13 23-0359 EA 48" x 48" Vertically Mounted Backdraft Damper .....	970.90	92.00
23 33 13 23-0360 EA 48" x 50" Vertically Mounted Backdraft Damper .....	1,015.20	97.22
23 33 13 23-0361 EA 50" x 48" Vertically Mounted Backdraft Damper .....	1,030.56	102.29
23 33 13 23-0362 EA 36" x 68" Vertically Mounted Backdraft Damper .....	1,045.03	102.29
23 33 13 23-0363 EA 50" x 50" Vertically Mounted Backdraft Damper .....	1,076.07	107.35
23 33 13 23-0364 EA 36" x 72" Vertically Mounted Backdraft Damper .....	1,103.79	107.35
<b>23 33 13 23-0365 Backdraft Damper Accessories (23 33 13 23)</b>		
23 33 13 23-0366 EA For Motor Pack For Horizontally Mounted Backdraft Damper .....	298.42	38.51
23 33 13 23-0367 EA For Motor Pack For Vertically Mounted Backdraft Damper .....	501.63	38.51
<b>23 33 13 33 Splitter Damper Hardware (23 33 13)</b>		
23 33 13 33-0001 EA Splitter Damper, Hardware .....	52.41	10.74
<b>23 33 13 43 Blower Check Valve (23 33 13)</b>		
<b>23 33 13 43-0001 Blower Check Valves With Silicone Seals (23 33 13 43)</b>		
23 33 13 43-0002 EA 2-1/2" Blower Check Valves, Silicone Seals .....	282.11	39.62
23 33 13 43-0003 EA 3" Blower Check Valves, Silicone Seals .....	315.35	45.15
23 33 13 43-0004 EA 4" Blower Check Valves, Silicone Seals .....	405.81	59.90
23 33 13 43-0005 EA 5" Blower Check Valves, Silicone Seals .....	555.32	69.12
23 33 13 43-0006 EA 6" Blower Check Valves, Silicone Seals .....	624.39	82.94
23 33 13 43-0007 EA 8" Blower Check Valves, Silicone Seals .....	923.34	105.05
<b>23 33 13 43-0008 Blower Check Valves With Viton Seats (23 33 13 43)</b>		
23 33 13 43-0009 EA 2-1/2" Blower Check Valves, Viton Seats .....	384.14	39.62
23 33 13 43-0010 EA 3" Blower Check Valves, Viton Seats .....	436.61	45.15
23 33 13 43-0011 EA 4" Blower Check Valves, Viton Seats .....	490.24	59.90
23 33 13 43-0012 EA 5" Blower Check Valves, Viton Seats .....	681.73	69.12
23 33 13 43-0013 EA 6" Blower Check Valves, Viton Seats .....	763.92	82.94
23 33 13 43-0014 EA 8" Blower Check Valves, Viton Seats .....	1,170.17	105.05



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**23 33 19 Duct Silencers (23 33)**

<b>23 33 19 00-0001 36" Long Packaged Duct Sound Trap (23 33 19)</b>			
23 33 19 00-0002	EA 12" x 12" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	428.63	62.89
23 33 19 00-0003	EA 12" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	513.47	72.10
23 33 19 00-0004	EA 12" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	658.86	82.84
23 33 19 00-0005	EA 12" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	796.18	93.58
23 33 19 00-0006	EA 24" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	741.30	93.58
23 33 19 00-0007	EA 24" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	933.76	98.18
23 33 19 00-0008	EA 24" x 30" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,028.71	104.31
23 33 19 00-0009	EA 24" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,126.76	110.45
23 33 19 00-0010	EA 24" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,464.39	125.79
23 33 19 00-0011	EA 36" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	931.83	104.31
23 33 19 00-0012	EA 36" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,248.02	125.79
23 33 19 00-0013	EA 36" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,175.11	168.74
23 33 19 00-0014	EA 36" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,400.18	177.94
23 33 19 00-0015	EA 48" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,675.56	191.75
23 33 19 00-0016	EA 48" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator.....	3,000.41	208.63

**23 33 19 00-0017 60" Long Packaged Duct Sound Trap (23 33 19)**

23 33 19 00-0018	EA 12" x 12" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	477.96	138.06
23 33 19 00-0019	EA 12" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	574.28	159.53
23 33 19 00-0020	EA 12" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	738.80	184.09
23 33 19 00-0021	EA 12" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	892.85	207.09
23 33 19 00-0022	EA 24" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	830.47	207.09
23 33 19 00-0023	EA 24" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,051.13	219.37
23 33 19 00-0024	EA 24" x 30" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,153.78	230.10
23 33 19 00-0025	EA 24" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,258.73	242.37
23 33 19 00-0026	EA 24" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,645.83	276.12
23 33 19 00-0027	EA 36" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,043.69	230.10
23 33 19 00-0028	EA 36" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,399.96	276.12
23 33 19 00-0029	EA 36" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,433.06	363.56
23 33 19 00-0030	EA 36" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,711.86	394.24
23 33 19 00-0031	EA 48" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	3,005.55	418.78
23 33 19 00-0032	EA 48" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator.....	3,379.13	460.20

**23 33 19 00-0033 84" Long Packaged Duct Sound Trap (23 33 19)**

23 33 19 00-0034	EA 6" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	409.92	115.05
23 33 19 00-0035	EA 6" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	693.77	171.81
23 33 19 00-0036	EA 6" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	971.77	251.58
23 33 19 00-0037	EA 12" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	547.68	138.06
23 33 19 00-0038	EA 12" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	677.03	159.53
23 33 19 00-0039	EA 12" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	907.61	184.09
23 33 19 00-0040	EA 12" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,066.02	197.89
23 33 19 00-0041	EA 12" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,162.42	213.22
23 33 19 00-0042	EA 12" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,451.03	230.10
23 33 19 00-0043	EA 12" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,709.38	251.58
23 33 19 00-0044	EA 24" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,008.29	213.22
23 33 19 00-0045	EA 24" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,410.50	222.43
23 33 19 00-0046	EA 24" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,535.43	230.10
23 33 19 00-0047	EA 24" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	1,669.74	242.37
23 33 19 00-0048	EA 24" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,080.62	260.78
23 33 19 00-0049	EA 24" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator.....	2,255.00	276.12

**23 33 23 Turning Vanes (23 33)**

**23 33 23 00-0001 Duct Turning Vane Components (23 33 23)**

23 33 23 00-0002	LF Duct Turning Vane Rail.....	14.93	3.83
	<i>For Stainless Steel, Add</i>	9.07	
23 33 23 00-0003	LF Double Thick Factory Fabricated, Duct Turning Vane.....	13.69	1.54
	<i>For Stainless Steel, Add</i>	13.66	

**23 33 23 00-0004 Duct Turning Vane Sets (23 33 23)**

Note: Measured from inside corner to outside corner of ductwork.

23 33 23 00-0005	LF 12" High Duct Turning Vanes, Sets.....	55.46	5.75
	<i>For Stainless Steel, Add</i>	62.75	
23 33 23 00-0006	LF 14" High Duct Turning Vanes, Sets.....	68.73	6.13
	<i>For Stainless Steel, Add</i>	79.38	
23 33 23 00-0007	LF 16" High Duct Turning Vanes, Sets.....	93.61	6.44
	<i>For Stainless Steel, Add</i>	111.14	
23 33 23 00-0008	LF 18" High Duct Turning Vanes, Sets.....	118.55	6.91
	<i>For Stainless Steel, Add</i>	142.90	
23 33 23 00-0009	LF 20" High Duct Turning Vanes, Sets.....	131.32	7.36
	<i>For Stainless Steel, Add</i>	158.76	
23 33 23 00-0010	LF 22" High Duct Turning Vanes, Sets.....	167.41	6.91
	<i>For Stainless Steel, Add</i>	206.43	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 23 00-0011 LF 24" High Duct Turning Vanes, Sets ..... <i>For Stainless Steel, Add</i>	205.65 254.05	8.13
23 33 23 00-0012 LF 26" High Duct Turning Vanes, Sets ..... <i>For Stainless Steel, Add</i>	220.75 273.17	8.50
23 33 23 00-0013 LF 30" High Duct Turning Vanes, Sets ..... <i>For Stainless Steel, Add</i>	246.40 305.96	8.84
<b>23 33 33 Duct-Mounting Access Doors (23 33)</b>		
<b>23 33 33 00-0001 Duct Access Doors, Insulated Factory Fabrication (23 33 33)</b>		
23 33 33 00-0002 EA 6" x 6" Duct Access Doors Insulated Factory Fabrication ..... <i>For Stainless Steel, Add</i>	117.52 62.46	21.48
23 33 33 00-0003 EA 10" x 10" Duct Access Doors Insulated Factory Fabrication ..... <i>For Stainless Steel, Add</i>	124.08 75.58	21.48
23 33 33 00-0004 EA 12" x 12" Duct Access Doors Insulated Factory Fabrication ..... <i>For Stainless Steel, Add</i>	127.29 82.00	21.48
23 33 33 00-0005 EA 12" x 18" Duct Access Doors Insulated Factory Fabrication ..... <i>For Stainless Steel, Add</i>	164.01 115.62	26.08
23 33 33 00-0006 EA 16" x 12" Duct Access Doors Insulated Factory Fabrication ..... <i>For Stainless Steel, Add</i>	165.31 118.22	26.08
23 33 33 00-0007 EA 18" x 18" Duct Access Doors Insulated Factory Fabrication ..... <i>For Stainless Steel, Add</i>	206.09 136.06	35.28
23 33 33 00-0008 EA 24" x 18" Duct Access Doors Insulated Factory Fabrication ..... <i>For Stainless Steel, Add</i>	245.83 146.52	42.95
23 33 33 00-0009 EA 24" x 24" Duct Access Doors Insulated Factory Fabrication ..... <i>For Stainless Steel, Add</i>	320.05 179.90	58.30
<b>23 33 43 Flexible Connectors (23 33)</b>		
23 33 43 00-0001 LF 6-1/2" Width, Galvanized Steel, Flexible Duct Connector .....	19.05	4.60
23 33 43 00-0002 LF 5-3/4" Width, Vinyl/Steel, Flexible Duct Connector .....	19.48	4.14
<b>23 33 46 Flexible Ducts (23 33)</b>		
<b>23 33 46 00-0001 Flexible Duct, R8.0 Insulated With Metallized Outer Jacket (23 33 46)</b>		
Note: Polyester inner liner encapsulating a corrosion resistant steel wire helix, supporting a blanket of fiberglass insulation over a fiberglass scrim and a bi-directional reinforced metallized outer vapor barrier jacket.		
23 33 46 00-0002 LF 4" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	10.46	1.54
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0003 LF 5" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	11.57	3.07
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0004 LF 6" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	13.03	3.07
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0005 LF 7" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	15.13	3.07
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0006 LF 8" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	17.77	4.60
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0007 LF 10" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	22.98	4.60
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0008 LF 12" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	30.89	6.13
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0009 LF 14" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	38.43	6.13
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0010 LF 16" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	50.23	7.67
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0011 LF 18" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	61.15	9.97
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		
23 33 46 00-0012 LF 20" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner Over Fiberglass Insulation And Metallized Outer Jacket .....	71.88	10.74
<i>For R6.0 Insulated Flexible Duct, Deduct</i>		
<i>For R4.2 Insulated Flexible Duct, Deduct</i>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>23 33 46 00-0013 Collars, Sheet Metal Spin-In Type With Damper</b> <small>(23 33 46)</small>					
23 33 46 00-0014	EA		Up To 4" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	58.82	9.20
			<i>For Stainless Steel, Add</i>	31.59	
23 33 46 00-0015	EA		5" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	64.06	10.74
			<i>For Stainless Steel, Add</i>	32.01	
23 33 46 00-0016	EA		6" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	73.17	10.74
			<i>For Stainless Steel, Add</i>	35.30	
23 33 46 00-0017	EA		7" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	83.25	13.80
			<i>For Stainless Steel, Add</i>	36.43	
23 33 46 00-0018	EA		8" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	100.68	16.87
			<i>For Stainless Steel, Add</i>	41.15	
23 33 46 00-0019	EA		10" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	117.92	19.94
			<i>For Stainless Steel, Add</i>	50.73	
23 33 46 00-0020	EA		12" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	134.08	23.01
			<i>For Stainless Steel, Add</i>	54.65	
23 33 46 00-0021	EA		14" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	158.48	26.08
			<i>For Stainless Steel, Add</i>	68.43	
23 33 46 00-0022	EA		16" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	172.64	29.15
			<i>For Stainless Steel, Add</i>	74.87	

**23 33 53 Duct Liners** (23 33)

<b>23 33 53 00-0001 Fiberglass Duct Liner Board, Rigid, Acoustical Insulation</b> <small>(23 33 53)</small>					
23 33 53 00-0002	SF		1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	16.46	4.36
23 33 53 00-0003	SF		3/4" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	17.98	4.36
23 33 53 00-0004	SF		1" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	19.98	5.82
23 33 53 00-0005	SF		1-1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	24.49	5.82
23 33 53 00-0006	SF		2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	29.55	6.56
23 33 53 00-0007	SF		1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	15.35	4.60
23 33 53 00-0008	SF		3/4" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	16.77	4.60
23 33 53 00-0009	SF		1" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	18.70	6.13
23 33 53 00-0010	SF		1-1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	22.78	6.13
23 33 53 00-0011	SF		2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	27.61	6.91

**23 33 53 00-0012 Fiberglass Duct Liner Blanket, Flexible, Acoustical Insulation** (23 33 53)

23 33 53 00-0013	SF		1/2", R2, 2 LB/CF, T200, Fiberglass Duct Liner Blanket	3.41	3.68
23 33 53 00-0014	SF		1", R3.8, 1.5 LB/CF, T150, Fiberglass Duct Liner Blanket	4.11	4.14
23 33 53 00-0015	SF		1", R4.1, 2 LB/CF, T200, Fiberglass Duct Liner Blanket	4.99	4.14
23 33 53 00-0016	SF		1", R4.3, 3 LB/CF, T300, Fiberglass Duct Liner Blanket	6.50	4.14
23 33 53 00-0017	SF		1-1/2", T150, 1.5 LB/CF, Fiberglass Duct Liner Blanket	5.38	4.60
23 33 53 00-0018	SF		2", R7.7, 1.5 LB/CF, T150 Fiberglass Duct Liner Blanket	5.71	5.06
23 33 53 00-0019	SF		2", R8, 2 LB/CF, T200 Fiberglass Duct Liner Blanket	8.97	5.06

**23 33 56 Duct Air Extractors** (23 33)

23 33 56 00-0001	EA		12" x 4" Duct Air Extractor	70.14	25.31
			<i>For Stainless Steel, Add</i>	25.38	
23 33 56 00-0002	EA		8" x 6" Duct Air Extractor	74.75	27.61
			<i>For Stainless Steel, Add</i>	25.38	
23 33 56 00-0003	EA		12" x 6" Duct Air Extractor	85.31	29.15
			<i>For Stainless Steel, Add</i>	35.11	
23 33 56 00-0004	EA		16" x 6" Duct Air Extractor	95.62	30.68
			<i>For Stainless Steel, Add</i>	44.54	
23 33 56 00-0005	EA		24" x 6" Duct Air Extractor	124.06	33.75
			<i>For Stainless Steel, Add</i>	73.54	
23 33 56 00-0006	EA		12" x 8" Duct Air Extractor	91.64	30.68
			<i>For Stainless Steel, Add</i>	39.36	
23 33 56 00-0007	EA		20" x 8" Duct Air Extractor	120.51	38.35
			<i>For Stainless Steel, Add</i>	56.97	
23 33 56 00-0008	EA		18" x 10" Duct Air Extractor	130.46	43.72
			<i>For Stainless Steel, Add</i>	55.94	
23 33 56 00-0009	EA		24" x 10" Duct Air Extractor	158.55	51.38
			<i>For Stainless Steel, Add</i>	72.50	
23 33 56 00-0010	EA		24" x 12" Duct Air Extractor	182.48	61.36
			<i>For Stainless Steel, Add</i>	77.69	
23 33 56 00-0011	EA		30" x 12" Duct Air Extractor	228.30	76.70
			<i>For Stainless Steel, Add</i>	97.37	

**23 33 59 Duct Pressure Relief Doors** (23 33)

<b>23 33 59 00-0001 Duct Pressure Relief Doors</b> <small>(23 33 59)</small>					
23 33 59 00-0002	EA		18" x 18" Duct Pressure Relief Door (Ruskin PRD18)	1,274.17	46.02
23 33 59 00-0003	EA		24" x 10" Duct Pressure Relief Door (Ruskin PRD18)	1,047.26	38.35
23 33 59 00-0004	EA		24" x 12" Duct Pressure Relief Door (Ruskin PRD18)	1,040.80	42.19

**23 34 HVAC Fans** (23 30)

**23 34 13 Axial HVAC Fans** (23 34)

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 34 HVAC Fans**



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 34 13 00-0001		Tube-Axial Fans <small>(23 34 13)</small>			
23 34 13 00-0002		Direct Drive Tube-Axial Duct Fans <small>(23 34 13 00-0001)</small>			
23 34 13 00-0003	EA	12" Direct Drive Axial Flow Fan, 1/6 HP 1,060 CFM Constant Speed, 1/8" Static Pressure.....	2,094.50		470.91
		For 1/4" Static Pressure, Add	92.14		
		For 3/8" Static Pressure, Add	184.28		
		For 1/2" Static Pressure, Add	253.38		
23 34 13 00-0004	EA	12" Direct Drive Axial Flow Fan, 1/2 HP 2,095 CFM Constant Speed, 1/8" Static Pressure.....	2,176.77		472.33
		For 1/4" Static Pressure, Add	98.72		
		For 3/8" Static Pressure, Add	197.44		
		For 1/2" Static Pressure, Add	271.48		
23 34 13 00-0005	EA	16" Direct Drive Axial Flow Fan, 1/3 HP 2,490 CFM Constant Speed, 1/8" Static Pressure.....	2,341.30		470.91
		For 1/4" Static Pressure, Add	111.88		
		For 3/8" Static Pressure, Add	223.76		
		For 1/2" Static Pressure, Add	307.68		
23 34 13 00-0006	EA	20" Direct Drive Axial Flow Fan, 3/4 HP 4,130 CFM Constant Speed, 1/8" Static Pressure.....	2,505.83		472.33
		For 1/4" Static Pressure, Add	125.04		
		For 3/8" Static Pressure, Add	250.09		
		For 1/2" Static Pressure, Add	343.87		
23 34 13 00-0007	EA	22" Direct Drive Axial Flow Fan, 3/4 HP 4,700 CFM Constant Speed, 1/8" Static Pressure.....	2,941.18		565.66
		For 1/4" Static Pressure, Add	144.79		
		For 3/8" Static Pressure, Add	289.58		
		For 1/2" Static Pressure, Add	398.17		
23 34 13 00-0008	EA	24" Direct Drive Axial Flow Fan, 1 HP 5,850 CFM Constant Speed, 1/8" Static Pressure.....	3,368.62		615.15
		For 1/4" Static Pressure, Add	171.11		
		For 3/8" Static Pressure, Add	342.23		
		For 1/2" Static Pressure, Add	470.56		
23 34 13 00-0009	EA	24" Direct Drive Axial Flow Fan, 1-1/2 HP 7,925 CFM Constant Speed, 1/8" Static Pressure.....	3,568.01		673.13
		For 1/4" Static Pressure, Add	177.70		
		For 3/8" Static Pressure, Add	355.39		
		For 1/2" Static Pressure, Add	488.66		
23 34 13 00-0010	EA	30" Direct Drive Axial Flow Fan, 1 HP 10,640 CFM Constant Speed, 1/8" Static Pressure.....	4,046.68		707.07
		For 1/4" Static Pressure, Add	210.60		
		For 3/8" Static Pressure, Add	421.20		
		For 1/2" Static Pressure, Add	579.16		
23 34 13 00-0011	EA	30" Direct Drive Axial Flow Fan, 2-1/2 HP 14,765 CFM Constant Speed, 1/8" Static Pressure.....	4,893.81		883.84
		For 1/4" Static Pressure, Add	250.09		
		For 3/8" Static Pressure, Add	500.18		
		For 1/2" Static Pressure, Add	687.75		
23 34 13 00-0012	EA	36" Direct Drive Axial Flow Fan, 2 HP 16,780 CFM Constant Speed, 1/8" Static Pressure.....	5,505.26		943.24
		For 1/4" Static Pressure, Add	289.58		
		For 3/8" Static Pressure, Add	579.16		
		For 1/2" Static Pressure, Add	796.34		
23 34 13 00-0013	EA	36" Direct Drive Axial Flow Fan, 5 HP 22,920 CFM Constant Speed, 1/8" Static Pressure.....	6,453.47		1,087.48
		For 1/4" Static Pressure, Add	342.23		
		For 3/8" Static Pressure, Add	684.46		
		For 1/2" Static Pressure, Add	941.13		
23 34 13 00-0014		Belt Drive Tube-Axial Duct Fans <small>(23 34 13 00-0001)</small>			
23 34 13 00-0015	EA	15" Belt Drive Axial Flow Fan, 1/3 HP 2,800 CFM Constant Speed, 1/8" Static Pressure.....	1,989.84		456.77
		For 1/4" Static Pressure, Add	86.20		
		For 3/8" Static Pressure, Add	172.40		
		For 1/2" Static Pressure, Add	237.05		
23 34 13 00-0016	EA	15" Belt Drive Axial Flow Fan, 1/2 HP 3,400 CFM Constant Speed, 1/8" Static Pressure.....	2,105.32		472.33
		For 1/4" Static Pressure, Add	93.00		
		For 3/8" Static Pressure, Add	186.01		
		For 1/2" Static Pressure, Add	255.76		
23 34 13 00-0017	EA	18" Belt Drive Axial Flow Fan, 1/3 HP 3,280 CFM Constant Speed, 1/8" Static Pressure.....	2,175.63		487.88
		For 1/4" Static Pressure, Add	96.03		
		For 3/8" Static Pressure, Add	192.06		
		For 1/2" Static Pressure, Add	264.08		
23 34 13 00-0018	EA	18" Belt Drive Axial Flow Fan, 1/2 HP 3,900 CFM Constant Speed, 1/8" Static Pressure.....	2,298.68		504.85
		For 1/4" Static Pressure, Add	103.09		
		For 3/8" Static Pressure, Add	206.17		
		For 1/2" Static Pressure, Add	283.49		
23 34 13 00-0019	EA	18" Belt Drive Axial Flow Fan, 1 HP 5,250 CFM Constant Speed, 1/8" Static Pressure.....	2,575.53		524.65
		For 1/4" Static Pressure, Add	122.24		
		For 3/8" Static Pressure, Add	244.48		
		For 1/2" Static Pressure, Add	336.16		
23 34 13 00-0020	EA	24" Belt Drive Axial Flow Fan, 1/2 HP 4,800 CFM Constant Speed, 1/8" Static Pressure.....	2,713.48		544.45
		For 1/4" Static Pressure, Add	130.05		
		For 3/8" Static Pressure, Add	260.11		
		For 1/2" Static Pressure, Add	357.65		
23 34 13 00-0021	EA	24" Belt Drive Axial Flow Fan, 1 HP 6,430 CFM Constant Speed, 1/8" Static Pressure.....	3,021.65		565.66
		For 1/4" Static Pressure, Add	151.23		
		For 3/8" Static Pressure, Add	302.45		
		For 1/2" Static Pressure, Add	415.87		
23 34 13 00-0022	EA	24" Belt Drive Axial Flow Fan, 2 HP 8,860 CFM Constant Speed, 1/8" Static Pressure.....	3,381.78		565.66
		For 1/4" Static Pressure, Add	180.18		
		For 3/8" Static Pressure, Add	360.36		
		For 1/2" Static Pressure, Add	495.50		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 13 00-0023 EA 30" Belt Drive Axial Flow Fan, 1 HP 9,250 CFM Constant Speed, 1/8" Static Pressure.....	3,905.52	615.15
For 1/4" Static Pressure, Add	214.24	
For 3/8" Static Pressure, Add	428.47	
For 1/2" Static Pressure, Add	589.15	
23 34 13 00-0024 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,900 CFM Constant Speed, 1/8" Static Pressure.....	4,636.00	745.25
For 1/4" Static Pressure, Add	252.04	
For 3/8" Static Pressure, Add	504.09	
For 1/2" Static Pressure, Add	693.12	
23 34 13 00-0025 EA 30" Belt Drive Axial Flow Fan, 5 HP 16,150 CFM Constant Speed, 1/8" Static Pressure.....	5,245.50	745.25
For 1/4" Static Pressure, Add	300.30	
For 3/8" Static Pressure, Add	600.60	
For 1/2" Static Pressure, Add	825.83	
23 34 13 00-0026 EA 36" Belt Drive Axial Flow Fan, 3/4 HP 8,090 CFM Constant Speed, 1/8" Static Pressure.....	5,762.64	786.27
For 1/4" Static Pressure, Add	335.31	
For 3/8" Static Pressure, Add	670.62	
For 1/2" Static Pressure, Add	922.10	
23 34 13 00-0027 EA 36" Belt Drive Axial Flow Fan, 2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure.....	6,284.76	831.52
For 1/4" Static Pressure, Add	370.00	
For 3/8" Static Pressure, Add	739.99	
For 1/2" Static Pressure, Add	1,017.49	
23 34 13 00-0028 EA 36" Belt Drive Axial Flow Fan, 7-1/2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure.....	7,209.82	1,087.48
For 1/4" Static Pressure, Add	403.27	
For 3/8" Static Pressure, Add	806.54	
For 1/2" Static Pressure, Add	1,108.99	
23 34 13 00-0029 EA 36" Belt Drive Axial Flow Fan, 5 HP 20,080 CFM Constant Speed, 1/8" Static Pressure.....	8,174.99	1,088.90
For 1/4" Static Pressure, Add	480.48	
For 3/8" Static Pressure, Add	960.97	
For 1/2" Static Pressure, Add	1,321.33	
23 34 13 00-0030 EA 42" Belt Drive Axial Flow Fan, 7-1/2 HP 29,000 CFM Constant Speed, 1/8" Static Pressure.....	9,253.83	1,285.18
For 1/4" Static Pressure, Add	535.36	
For 3/8" Static Pressure, Add	1,070.72	
For 1/2" Static Pressure, Add	1,472.23	
<b>23 34 16 Centrifugal HVAC Fans (23 34)</b>		
23 34 16 00-0001 Centrifugal Fans (23 34 16)		
Note: All belt fans to be supplied with belt guard.		
23 34 16 00-0002 Utility Backward Inclined Steel Wheel Centrifugal Fans (23 34 16 00-0001)		
Note: V-belt driven.		
23 34 16 00-0003 Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)		
Note: Under 30" diameter wheel.		
23 34 16 00-0004 12-1/4" Diameter Wheel 650 To 2,950 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0005 EA 1/6 HP, 12-1/4" Wheel, 450 To 1,750 CFM At 1/8" Static Pressure, Centrifugal Fan .....	1,315.00	310.69
23 34 16 00-0006 EA 1/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....	1,838.81	322.43
23 34 16 00-0007 EA 1/3 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....	1,895.15	256.95
23 34 16 00-0008 EA 1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....	1,978.28	352.12
23 34 16 00-0009 EA 3/4 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....	2,031.64	373.34
23 34 16 00-0010 EA 1 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....	2,098.01	388.89
23 34 16 00-0011 EA 1-1/2 HP, 12-1/4" Wheel, 650 To 2,950 CFM At 1/8" Static Pressure, Centrifugal Fan .....	2,168.60	414.35
23 34 16 00-0012 13-1/2" Diameter Wheel 734 To 3,343 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0013 EA 1/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....	2,108.03	339.39
23 34 16 00-0014 EA 1/3 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....	2,148.68	352.12
23 34 16 00-0015 EA 1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....	2,223.20	373.34
23 34 16 00-0016 EA 3/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....	2,268.01	388.89
23 34 16 00-0017 EA 1 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....	2,349.81	414.35
23 34 16 00-0018 EA 1-1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure .....	2,428.62	434.14
23 34 16 00-0019 15" Diameter Wheel 1,258 To 4,146 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0020 EA 1/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....	2,127.43	352.12
23 34 16 00-0021 EA 1/3 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....	2,180.70	373.34
23 34 16 00-0022 EA 1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....	2,246.76	388.89
23 34 16 00-0023 EA 3/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....	2,307.30	414.35
23 34 16 00-0024 EA 1 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....	2,379.04	434.14
23 34 16 00-0025 EA 1-1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....	2,481.48	466.67
23 34 16 00-0026 EA 2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure .....	2,561.20	490.71
23 34 16 00-0027 16-1/2" Diameter Wheel 977 To 4,711 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0028 EA 1/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....	2,425.08	373.34
23 34 16 00-0029 EA 1/3 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....	2,513.21	388.89
23 34 16 00-0030 EA 1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....	2,614.14	414.35
23 34 16 00-0031 EA 3/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....	2,669.37	434.14
23 34 16 00-0032 EA 1 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....	2,744.71	466.67
23 34 16 00-0033 EA 1-1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....	2,807.93	490.71
23 34 16 00-0034 EA 2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure .....	3,113.76	533.13

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 34 16 00-0035</b> <b>18-1/4" Diameter Wheel 2,193 To 6,498 CFM At 1/8" Static Pressure</b> <small>(23 34 16 00-0003)</small>		
23 34 16 00-0036 EA 1/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....	2,507.08	388.89
23 34 16 00-0037 EA 1/3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....	2,572.92	414.35
23 34 16 00-0038 EA 1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....	2,655.30	434.14
23 34 16 00-0039 EA 3/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....	2,725.88	466.67
23 34 16 00-0040 EA 1 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....	2,816.21	490.71
23 34 16 00-0041 EA 1-1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....	2,954.39	533.13
23 34 16 00-0042 EA 2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....	3,045.87	565.66
23 34 16 00-0043 EA 3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure .....	3,185.31	622.22
<b>23 34 16 00-0044</b> <b>20" Diameter Wheel 2,412 To 7,364 CFM At 1/8" Static Pressure</b> <small>(23 34 16 00-0003)</small>		
23 34 16 00-0045 EA 1/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....	2,541.06	414.35
23 34 16 00-0046 EA 1/3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....	2,623.40	434.14
23 34 16 00-0047 EA 1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....	2,725.88	466.67
23 34 16 00-0048 EA 3/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....	2,816.21	490.71
23 34 16 00-0049 EA 1 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....	2,986.26	533.13
23 34 16 00-0050 EA 1-1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....	3,214.34	565.66
23 34 16 00-0051 EA 2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....	3,386.59	622.22
23 34 16 00-0052 EA 3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure .....	3,560.19	666.06
<b>23 34 16 00-0053</b> <b>22-1/4" Diameter Wheel 2,265 To 8,483 CFM At 1/8" Static Pressure</b> <small>(23 34 16 00-0003)</small>		
23 34 16 00-0054 EA 1/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....	3,030.72	434.14
23 34 16 00-0055 EA 1/3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....	3,096.31	466.67
23 34 16 00-0056 EA 1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....	3,179.24	490.71
23 34 16 00-0057 EA 3/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....	3,287.31	533.13
23 34 16 00-0058 EA 1 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....	3,422.16	565.66
23 34 16 00-0059 EA 1-1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....	3,483.97	622.22
23 34 16 00-0060 EA 2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....	3,581.44	666.06
23 34 16 00-0061 EA 3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure .....	3,755.76	746.67
<b>23 34 16 00-0062</b> <b>24-1/2" Diameter Wheel 3,055 To 11,380 CFM At 1/8" Static Pressure</b> <small>(23 34 16 00-0003)</small>		
23 34 16 00-0063 EA 1/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....	3,625.48	466.67
23 34 16 00-0064 EA 1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....	3,761.91	533.13
23 34 16 00-0065 EA 3/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....	3,885.26	565.66
23 34 16 00-0066 EA 1 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....	4,024.10	622.22
23 34 16 00-0067 EA 1-1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....	4,144.57	666.06
23 34 16 00-0068 EA 2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....	4,265.78	746.67
23 34 16 00-0069 EA 3 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....	4,417.28	811.72
23 34 16 00-0070 EA 5 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure .....	4,761.11	933.33
<b>23 34 16 00-0071</b> <b>27" Diameter Wheel 2,734 To 13,266 CFM At 1/8" Static Pressure</b> <small>(23 34 16 00-0003)</small>		
23 34 16 00-0072 EA 1/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....	4,008.01	490.71
23 34 16 00-0073 EA 1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....	4,150.91	565.66
23 34 16 00-0074 EA 3/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....	4,289.73	622.22
23 34 16 00-0075 EA 1 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....	4,410.21	666.06
23 34 16 00-0076 EA 1-1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....	4,584.54	746.67
23 34 16 00-0077 EA 2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....	4,735.71	811.72
23 34 16 00-0078 EA 3 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....	5,102.12	933.33
23 34 16 00-0079 EA 5 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure .....	5,183.87	1,036.57
<b>23 34 16 00-0080</b> <b>Large Industrial Type Utility Backward Centrifugal Fans</b> <small>(23 34 16 00-0002)</small>		
Note: Over 30" diameter wheel.		
<b>23 34 16 00-0081</b> <b>30" Diameter Wheel 4,926 To 17,456 CFM At 1/8" Static Pressure</b> <small>(23 34 16 00-0080)</small>		
23 34 16 00-0082 EA 1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....	5,591.34	622.22
23 34 16 00-0083 EA 3/4 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....	5,707.63	666.06
23 34 16 00-0084 EA 1 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....	5,891.45	746.67
23 34 16 00-0085 EA 1-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....	6,053.25	811.72
23 34 16 00-0086 EA 2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....	6,301.79	933.33
23 34 16 00-0087 EA 3 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....	6,522.65	1,036.57
23 34 16 00-0088 EA 5 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....	6,900.67	1,244.45
23 34 16 00-0089 EA 7-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure .....	7,247.83	1,435.36
<b>23 34 16 00-0090</b> <b>33" Diameter Wheel 5,734 To 19,799 CFM At 1/8" Static Pressure</b> <small>(23 34 16 00-0080)</small>		
23 34 16 00-0091 EA 1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....	6,535.28	666.06
23 34 16 00-0092 EA 3/4 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....	6,762.73	746.67
23 34 16 00-0093 EA 1 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....	6,967.35	811.72
23 34 16 00-0094 EA 1-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....	7,258.07	933.33
23 34 16 00-0095 EA 2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....	7,521.45	1,036.57
23 34 16 00-0096 EA 3 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....	7,941.95	1,244.45
23 34 16 00-0097 EA 5 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....	8,396.98	1,435.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0098 EA 7-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure .....	9,097.23	1,866.68
<b>23 34 16 00-0099 36-1/2" Diameter Wheel 5,388 To 22,500 CFM At 1/8" Static Pressure</b> <small>(23 34 16 00-0098)</small>		
23 34 16 00-0100 EA 1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....	6,988.00	746.67
23 34 16 00-0101 EA 3/4 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....	7,198.99	811.72
23 34 16 00-0102 EA 1 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....	7,840.33	933.33
23 34 16 00-0103 EA 1-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....	8,280.10	1,036.57
23 34 16 00-0104 EA 2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....	8,849.61	1,244.45
23 34 16 00-0105 EA 3 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....	9,297.95	1,435.36
23 34 16 00-0106 EA 5 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....	10,249.15	1,866.68
23 34 16 00-0107 EA 7-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure .....	11,083.15	2,333.34
<b>23 34 16 00-0108 Kitchen System Fans</b> <small>(23 34 16 00-0001)</small>		
<b>23 34 16 00-0109 Upblast Kitchen Exhaust Fans</b> <small>(23 34 16 00-0108)</small>		
<b>23 34 16 00-0110 Direct Drive Kitchen Upblast Exhaust Fans</b> <small>(23 34 16 00-0109)</small>		
Note: Greenheck CUE.		
23 34 16 00-0111 EA Up To 12" Wheel Diameter, 1/6 HP Direct Drive, Kitchen Upblast Exhaust Fan .....	1,448.45	183.84
Note: 115V. For roof or wall installations. Includes disconnect switch.		
<i>For Bird Screen, Add</i> <span style="float: right;">61.24</span>		
<i>For Backdraft Damper, Add</i> <span style="float: right;">180.77</span>		
<i>For Damper Motor, Add</i> <span style="float: right;">292.11</span>		
23 34 16 00-0112 EA 14" Wheel Diameter, 1/4 HP Direct Drive, Kitchen Upblast Exhaust Fan .....	1,691.73	183.84
Note: 115V. For roof or wall installations. Includes disconnect switch.		
<i>For Bird Screen, Add</i> <span style="float: right;">61.24</span>		
<i>For Backdraft Damper, Add</i> <span style="float: right;">180.77</span>		
<i>For Damper Motor, Add</i> <span style="float: right;">292.11</span>		
<b>23 34 16 00-0113 Belt Drive Kitchen Upblast Exhaust Fans</b> <small>(23 34 16 00-0109)</small>		
Note: Greenheck CUBE.		
23 34 16 00-0114 EA 10" Diameter Wheel, Up To 1/3 HP, 1,458 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....	2,460.28	183.84
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> <span style="float: right;">61.24</span>		
<i>For Wall Mounted Fan, Add</i> <span style="float: right;">98.41</span>		
<i>For 3 Phase Motor, Deduct</i> <span style="float: right;">-50.00</span>		
<i>For Totally Enclosed Motor, Add</i> <span style="float: right;">85.00</span>		
<i>For Grease Trap Kit, Add</i> <span style="float: right;">76.41</span>		
<i>For Hinged Curb Kit, Add</i> <span style="float: right;">177.87</span>		
<i>For Backdraft Damper, Add</i> <span style="float: right;">180.77</span>		
<i>For Damper Motor, Add</i> <span style="float: right;">292.11</span>		
23 34 16 00-0115 EA 12" Diameter Wheel, 1/2 HP, 1,923 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....	2,565.86	183.84
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> <span style="float: right;">61.24</span>		
<i>For Wall Mounted Fan, Add</i> <span style="float: right;">102.63</span>		
<i>For 3 Phase Motor, Deduct</i> <span style="float: right;">-50.00</span>		
<i>For Totally Enclosed Motor, Add</i> <span style="float: right;">85.00</span>		
<i>For Grease Trap Kit, Add</i> <span style="float: right;">76.41</span>		
<i>For Hinged Curb Kit, Add</i> <span style="float: right;">186.85</span>		
<i>For Backdraft Damper, Add</i> <span style="float: right;">180.77</span>		
<i>For Damper Motor, Add</i> <span style="float: right;">292.11</span>		
23 34 16 00-0116 EA 14" Diameter Wheel, 1/3 HP, 2,006 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....	2,214.89	212.12
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> <span style="float: right;">69.68</span>		
<i>For Wall Mounted Fan, Add</i> <span style="float: right;">88.60</span>		
<i>For 3 Phase Motor, Deduct</i> <span style="float: right;">-50.00</span>		
<i>For Totally Enclosed Motor, Add</i> <span style="float: right;">85.00</span>		
<i>For Grease Trap Kit, Add</i> <span style="float: right;">76.41</span>		
<i>For Hinged Curb Kit, Add</i> <span style="float: right;">152.20</span>		
<i>For Backdraft Damper, Add</i> <span style="float: right;">205.17</span>		
<i>For Damper Motor, Add</i> <span style="float: right;">292.11</span>		
23 34 16 00-0117 EA 14" Diameter Wheel, 1 HP, 2,757 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....	2,366.92	212.12
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> <span style="float: right;">69.68</span>		
<i>For Wall Mounted Fan, Add</i> <span style="float: right;">94.68</span>		
<i>For 3 Phase Motor, Deduct</i> <span style="float: right;">-50.00</span>		
<i>For Totally Enclosed Motor, Add</i> <span style="float: right;">85.00</span>		
<i>For Grease Trap Kit, Add</i> <span style="float: right;">76.41</span>		
<i>For Hinged Curb Kit, Add</i> <span style="float: right;">165.13</span>		
<i>For Backdraft Damper, Add</i> <span style="float: right;">205.17</span>		
<i>For Damper Motor, Add</i> <span style="float: right;">292.11</span>		
23 34 16 00-0118 EA 16" Diameter Wheel, 1/2 HP, 2,940 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....	3,003.53	247.48
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i> <span style="float: right;">69.68</span>		
<i>For Wall Mounted Fan, Add</i> <span style="float: right;">120.14</span>		
<i>For 3 Phase Motor, Deduct</i> <span style="float: right;">-50.00</span>		
<i>For Totally Enclosed Motor, Add</i> <span style="float: right;">85.00</span>		
<i>For Grease Trap Kit, Add</i> <span style="float: right;">76.41</span>		
<i>For Hinged Curb Kit, Add</i> <span style="float: right;">213.23</span>		
<i>For Backdraft Damper, Add</i> <span style="float: right;">205.17</span>		
<i>For Damper Motor, Add</i> <span style="float: right;">292.11</span>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 34 HVAC Fans**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0119	EA		16" Diameter Wheel, 1 HP, 3,129 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,166.12	247.48
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	69.68	
			For Wall Mounted Fan, Add	126.64	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	227.05	
			For Backdraft Damper, Add	205.17	
			For Damper Motor, Add	292.11	
23 34 16 00-0120	EA		18" Diameter Wheel, 1/2 HP, 3,243 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,448.54	265.15
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	116.14	
			For Wall Mounted Fan, Add	137.94	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	248.05	
			For Backdraft Damper, Add	255.57	
			For Damper Motor, Add	292.11	
23 34 16 00-0121	EA		18" Diameter Wheel, 1 HP, 4,223 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,701.93	265.15
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	116.14	
			For Wall Mounted Fan, Add	148.08	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	269.59	
			For Backdraft Damper, Add	255.57	
			For Damper Motor, Add	292.11	
23 34 16 00-0122	EA		20" Diameter Wheel, 3/4 HP, 4,438 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	3,766.85	282.83
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	116.14	
			For Wall Mounted Fan, Add	150.67	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	272.10	
			For Backdraft Damper, Add	255.57	
			For Damper Motor, Add	292.11	
23 34 16 00-0123	EA		20" Diameter Wheel, 2 HP, 6,450 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	4,123.71	282.83
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	116.14	
			For Wall Mounted Fan, Add	164.95	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	302.43	
			For Backdraft Damper, Add	255.57	
			For Damper Motor, Add	292.11	
23 34 16 00-0124	EA		24" Diameter Wheel, 3/4 HP, 5,460 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	4,747.65	318.18
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	137.25	
			For Wall Mounted Fan, Add	189.91	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	349.46	
			For Backdraft Damper, Add	277.09	
			For Damper Motor, Add	292.11	
23 34 16 00-0125	EA		24" Diameter Wheel, 2 HP, 7,985 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	5,074.94	318.18
			Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	137.25	
			For Wall Mounted Fan, Add	203.00	
			For 3 Phase Motor, Deduct	-50.00	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	377.28	
			For Backdraft Damper, Add	277.09	
			For Damper Motor, Add	292.11	
23 34 16 00-0126	EA		30" Diameter Wheel, 3/4 HP, 7,771 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	6,009.30	353.53
			Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
			For Bird Screen, Add	147.81	
			For Wall Mounted Fan, Add	240.37	
			For Totally Enclosed Motor, Add	85.00	
			For Grease Trap Kit, Add	76.41	
			For Hinged Curb Kit, Add	450.69	
			For Backdraft Damper, Add	307.27	
			For Damper Motor, Add	292.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0127 EA 30" Diameter Wheel, 2 HP, 10,192 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	6,116.99	353.53
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	147.81	
<i>For Wall Mounted Fan, Add</i>	244.68	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	459.84	
<i>For Backdraft Damper, Add</i>	307.27	
<i>For Damper Motor, Add</i>	292.11	
23 34 16 00-0128 EA 30" Diameter Wheel, 3 HP, 11,903 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	6,663.89	353.53
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	147.81	
<i>For Wall Mounted Fan, Add</i>	266.56	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	506.33	
<i>For Backdraft Damper, Add</i>	307.27	
<i>For Damper Motor, Add</i>	292.11	
23 34 16 00-0129 EA 30" Diameter Wheel, 5 HP, 14,266 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	6,927.84	353.53
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	147.81	
<i>For Wall Mounted Fan, Add</i>	277.11	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	528.77	
<i>For Backdraft Damper, Add</i>	307.27	
<i>For Damper Motor, Add</i>	292.11	
23 34 16 00-0130 EA 36" Diameter Wheel, 3 HP , 14,769 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	7,628.13	388.89
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	168.93	
<i>For Wall Mounted Fan, Add</i>	305.13	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	582.28	
<i>For Damper Motor, Add</i>	292.11	
<i>For Backdraft Damper, Add</i>	360.95	
23 34 16 00-0131 EA 36" Diameter Wheel, 5 HP , 17,884 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	7,931.67	388.89
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	168.93	
<i>For Wall Mounted Fan, Add</i>	317.27	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	608.08	
<i>For Damper Motor, Add</i>	292.11	
<i>For Backdraft Damper, Add</i>	360.95	
23 34 16 00-0132 EA 42" Diameter Wheel, 3 HP , 17,316 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	8,010.88	424.25
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	168.93	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	608.81	
<i>For Damper Motor, Add</i>	292.11	
<i>For Backdraft Damper, Add</i>	418.67	
23 34 16 00-0133 EA 42" Diameter Wheel, 7-1/2 HP , 24,604 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan.....	8,677.30	424.25
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	168.93	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	665.45	
<i>For Damper Motor, Add</i>	292.11	
<i>For Backdraft Damper, Add</i>	418.67	
<b>23 34 16 00-0134 Untempered Kitchen Make-Up Air Fans (23 34 16 00-0108)</b>		
Note: Roof mounted with downblast discharge, weatherhood and filter.		
<b>23 34 16 00-0135 Direct Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)</b>		
23 34 16 00-0136 EA 7" Diameter Wheel, 1/2 HP Direct Drive, Kitchen Make-Up Air Fan .....	1,673.02	183.84
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	287.68	
23 34 16 00-0137 EA 8" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan .....	1,755.67	183.84
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	300.08	
23 34 16 00-0138 EA 9" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan .....	1,857.09	183.84
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	315.29	
<b>23 34 16 00-0139 Belt Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)</b>		
23 34 16 00-0140 EA 9" Diameter Wheel, 1/2 HP Belt Drive, Kitchen Make-Up Air Fan .....	1,896.43	183.84
Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	321.20	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0141 EA 10" Diameter Wheel, 1-1/2 HP Belt Drive, Kitchen Make-Up Air Fan ..... Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	2,136.46  369.96	247.48
23 34 16 00-0142 EA 12" Diameter Wheel, 2 HP Belt Drive, Kitchen Make-Up Air Fan ..... Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	2,571.68  442.32	282.83
23 34 16 00-0143 EA 15" Diameter Wheel, 3 HP Belt Drive, Kitchen Make-Up Air Fan ..... Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	2,987.60  518.85	353.53
23 34 16 00-0144 EA 18" Diameter Wheel, 5 HP Belt Drive, Kitchen Make-Up Air Fan ..... Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch. <i>For Extended Weatherhood, Add</i>	3,614.62  627.04	424.25
<b>23 34 16 00-0145 Replacement Parts (23 34 16 00-0001)</b>		
<b>23 34 16 00-0146 Replace Belts And Accessories (23 34 16 00-0145)</b>		
23 34 16 00-0147 EA Fan Shaft Bearing, Replacement .....	1,102.58	503.44
23 34 16 00-0148 EA Fan Belt, Replacement .....	174.95	68.29
<b>23 34 16 00-0149 Corrosive Fume Resistant Plastic (23 34 16 00-0001)</b>		
<b>23 34 16 00-0150 Centrifugal Roof Ventilators, Belt Drive, 1/4" Static Pressure (23 34 16 00-0149)</b>		
23 34 16 00-0151 EA 250 CFM, 1/4 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	6,372.89 879.31	255.41
23 34 16 00-0152 EA 895 CFM, 1/3 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	6,932.47 947.83	306.80
23 34 16 00-0153 EA 1,630 CFM, 1/2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	8,227.85 1,119.13	383.50
23 34 16 00-0154 EA 2,240 CFM, 1 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	8,864.76 1,176.22	511.59
23 34 16 00-0155 EA 3,810 CFM, 2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	10,212.94 1,301.84	767.01
23 34 16 00-0156 EA 11,760 CFM, 5 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	17,685.16 2,192.57	1,534.01
23 34 16 00-0157 EA 18,810 CFM, 10 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	25,778.47 3,208.92	2,192.86
<b>23 34 16 00-0158 Utility Set, Centrifugal, Belt Drive (23 34 16 00-0149)</b>		
23 34 16 00-0159 EA 1,200 CFM, 1/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	6,372.89 879.31	255.41
23 34 16 00-0160 EA 1,520 CFM, 1/3 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	6,551.82 890.73	306.80
23 34 16 00-0161 EA 1,850 CFM, 1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	6,705.23 890.73	383.50
23 34 16 00-0162 EA 2,180 CFM, 3/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	6,961.49 890.73	511.59
23 34 16 00-0163 EA 3,600 CFM, 1 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	9,603.89 1,210.48	767.01
23 34 16 00-0164 EA 4,250 CFM, 1-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	9,987.39 1,210.48	958.75
23 34 16 00-0165 EA 4,800 CFM, 2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	10,264.11 1,210.48	1,097.12
23 34 16 00-0166 EA 6,920 CFM, 5 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	10,523.16 1,233.32	1,150.50
23 34 16 00-0167 EA 7,700 CFM, 7-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic ..... <i>For Explosion Proof Motor, Add</i>	10,854.96 1,244.74	1,278.28
<b>23 34 16 00-0168 In-Line Duct Fans (23 34 16 00-0001)</b>		
<b>23 34 16 00-0169 Direct Drive In-Line Duct Fans (23 34 16 00-0168)</b> Note: Greenheck SQ.		
23 34 16 00-0170 EA Up To 10" Wheel Diameter, 1/16 HP Direct Drive, In Line Duct Fan ..... Note: 115V. Includes disconnect switch.	1,724.79	183.84
23 34 16 00-0171 EA 13" Wheel Diameter, 1/6 HP Direct Drive, In Line Duct Fan ..... Note: 115V. Includes disconnect switch.	2,195.21	197.98
23 34 16 00-0172 EA 14" Wheel Diameter, 1/3 HP Direct Drive, In Line Duct Fan ..... Note: 115V. Includes disconnect switch.	2,405.97	212.12
<b>23 34 16 00-0173 Belt Drive In-Line Duct Fans (23 34 16 00-0168)</b> Note: Greenheck BSQ.		
23 34 16 00-0174 EA Up To 12" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan ..... Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	2,511.52  -50.00 85.00	212.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0175 EA 13" Or 14" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan.....	2,887.47	247.48
Note: 115/208-230/60/1. Includes disconnect switch.		
<i>For 3 Phase Motor, Deduct</i>	-50.00	
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0176 EA 13" Or 14" Wheel Diameter, 3/4 HP Belt Drive, In Line Duct Fan.....	3,239.74	247.48
Note: 115/208-230/60/1. Includes disconnect switch.		
<i>For 3 Phase Motor, Deduct</i>	-50.00	
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0177 EA 13" Or 14" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan.....	3,539.23	247.48
Note: 115/208-230/60/1. Includes disconnect switch.		
<i>For 3 Phase Motor, Deduct</i>	-50.00	
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0178 EA 16" Or 18" Wheel Diameter, 1/3 HP Belt Drive, In Line Duct Fan.....	3,457.33	282.83
Note: 115/208-230/60/1. Includes disconnect switch.		
<i>For 3 Phase Motor, Deduct</i>	-50.00	
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0179 EA 16" Or 18" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan.....	3,964.52	282.83
Note: 115/208-230/60/1. Includes disconnect switch.		
<i>For 3 Phase Motor, Deduct</i>	-50.00	
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0180 EA 24" Wheel Diameter, 1 HP Belt Drive, In Line Duct Fan.....	5,043.41	353.53
Note: 115/208-230/60/1. Includes disconnect switch.		
<i>For 3 Phase Motor, Deduct</i>	-50.00	
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0181 EA 24" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan.....	5,323.40	353.53
Note: 230/460/60/3. Includes disconnect switch.		
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0182 EA 24" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan.....	5,520.77	353.53
Note: Belt drive. 230/460/60/3. Includes disconnect switch.		
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0183 EA 30 Or 36" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan.....	6,388.66	424.25
Note: 230/460/60/3. Includes disconnect switch.		
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0184 EA 30 Or 36" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan.....	6,624.23	424.25
Note: 230/460/60/3. Includes disconnect switch.		
<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0185 EA 30 Or 36" Wheel Diameter, 7-1/2 HP Belt Drive, In Line Duct Fan.....	6,913.72	424.25
Note: 230/460/60/3. Includes disconnect switch.		
<i>For Totally Enclosed Motor, Add</i>	85.00	
<b>23 34 16 00-0186 In-Line Cabinet Fans (23 34 16 00-0001)</b>		
23 34 16 00-0187 EA 77 - 124 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	565.74	123.73
23 34 16 00-0188 EA 91 - 138 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	565.74	123.73
23 34 16 00-0189 EA 82 - 266 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	639.98	130.80
23 34 16 00-0190 EA 281 - 412 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	704.01	130.80
23 34 16 00-0191 EA 190 CFM, 115 Volt, Direct Drive Cabinet Fan.....	878.90	130.80
23 34 16 00-0192 EA 217 - 447 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	732.59	130.80
23 34 16 00-0193 EA 325 - 545 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	833.09	130.80
23 34 16 00-0194 EA 250 - 545 CFM, 115 Volt, 1/6 HP, Direct Drive In-Line Cabinet Fan.....	1,542.48	130.80
23 34 16 00-0195 EA 419 - 766 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	975.31	137.87
23 34 16 00-0196 EA 334 - 737 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	991.08	137.87
23 34 16 00-0197 EA 350 - 737 CFM, 120 Volt, 1/4 HP, Direct Drive In-Line Cabinet Fan.....	1,605.90	137.87
23 34 16 00-0198 EA 527 - 813 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	991.08	137.87
23 34 16 00-0199 EA 631 - 908 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	1,321.14	137.87
23 34 16 00-0200 EA 752 - 1244 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	1,321.14	137.87
23 34 16 00-0201 EA 1043 - 1584 CFM, 115 Volt, 1/3 HP, Direct Drive In-Line Cabinet Fan.....	1,321.14	137.87
23 34 16 00-0202 EA 999 - 1672 CFM, 115 Volt, Direct Drive In-Line Cabinet Fan.....	1,431.50	137.87
<b>23 34 16 00-0203 Propeller And Ceiling Fans (23 34 16)</b>		
<b>23 34 16 00-0204 Direct Drive, Sidewall Propeller Exhaust Fan (23 34 16 00-0203)</b>		
Note: Greenheck SE1.		
23 34 16 00-0205 EA 1/25 HP, 307 CFM At 1/8" Static Pressure, 8" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	784.77	151.31
Note: Includes motor side guard.		
<i>For Backdraft Damper, Add</i>	207.07	
<i>For Wall Mount Collar, Add</i>	292.97	
23 34 16 00-0206 EA 1/12 HP, 763 CFM At 1/8" Static Pressure, 10" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	833.50	168.29
Note: Includes motor side guard.		
<i>For Backdraft Damper, Add</i>	222.81	
<i>For Wall Mount Collar, Add</i>	292.97	
23 34 16 00-0207 EA 1/8 HP, 1,149 CFM At 1/8" Static Pressure, 12" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	923.05	186.66
Note: Includes motor side guard.		
<i>For Backdraft Damper, Add</i>	244.32	
<i>For Wall Mount Collar, Add</i>	300.72	
23 34 16 00-0208 EA 1/6 HP, 1,350 CFM At 1/8" Static Pressure, 14" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	1,331.48	206.47
<i>For Backdraft Damper, Add</i>	291.83	
<i>For Wall Mount Collar, Add</i>	306.35	
<i>For Motor Side Guard, Add</i>	250.64	
23 34 16 00-0209 EA 1/6 HP, 2,012 CFM At 1/8" Static Pressure, 16" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan.....	1,134.81	229.09
<i>For Backdraft Damper, Add</i>	291.83	
<i>For Wall Mount Collar, Add</i>	314.11	
<i>For Motor Side Guard, Add</i>	266.84	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0210 EA 1/4 HP, 2,908 CFM At 1/8" Static Pressure, 18" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....	1,273.52	254.55
For Backdraft Damper, Add	353.78	
For Wall Mount Collar, Add	321.85	
For Motor Side Guard, Add	283.03	
23 34 16 00-0211 EA 1/3 HP, 3,974 CFM At 1/8" Static Pressure, 20" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan .....	1,448.15	282.83
For Backdraft Damper, Add	353.78	
For Wall Mount Collar, Add	327.49	
For Motor Side Guard, Add	305.56	
<b>23 34 16 00-0212 Belt Drive Propeller Exhaust Fans (23 34 16 00-0203)</b>		
Note: Wall shutter 1/8" static pressure, with birdscreen.		
23 34 16 00-0213 EA 24" Propeller Exhaust Fan, V-Belt Drive, 5,795 CFM, 1/2 HP, With Wall Shutter .....	2,638.96	404.44
23 34 16 00-0214 EA 30" Propeller Exhaust Fan, V-Belt Drive, 9,060 CFM, 3/4 HP, With Wall Shutter .....	3,025.29	470.91
23 34 16 00-0215 EA 36" Propeller Exhaust Fan, V-Belt Drive, 11,850 CFM, 1 HP, With Wall Shutter .....	3,442.17	565.66
23 34 16 00-0216 EA 42" Propeller Exhaust Fan, V-Belt Drive, 17,400 CFM, 1-1/2 HP, With Wall Shutter .....	4,765.90	707.07
23 34 16 00-0217 EA 48" Propeller Exhaust Fan, V-Belt Drive, 19,870 CFM, 1-1/2 HP, With Wall Shutter .....	5,718.72	943.24
23 34 16 00-0218 EA 54" Propeller Exhaust Fan, V-Belt Drive, 26,000 CFM, 2 HP, With Wall Shutter .....	7,978.16	1,414.15
23 34 16 00-0219 EA 60" Propeller Exhaust Fan, V-Belt Drive, 35,120 CFM, 3 HP, With Wall Shutter .....	9,614.73	1,812.94
<b>23 34 16 00-0220 Propeller Exhaust Fan Accessories (23 34 16 00-0203)</b>		
23 34 16 00-0221 SF Hinged Mesh Screen For Wall Propeller Fans, 1" x 1" Frame (SF Of Fan Opening) .....	136.91	
23 34 16 00-0222 SF Galvanized Weather Hood For Wall Propeller Fan (SF Of Fan Opening) .....	312.90	
<b>23 34 16 00-0223 Reversible Ceiling Fans (23 34 16 00-0203)</b>		
<b>23 34 16 00-0224 4 Blade Ceiling Fans (23 34 16 00-0223)</b>		
23 34 16 00-0225 EA 42" 4-Blade Ceiling Fan, Three Speed .....	632.55	76.24
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	26.27	
<b>23 34 16 00-0226 5 Blade Ceiling Fans (23 34 16 00-0223)</b>		
23 34 16 00-0227 EA 42" 5-Blade Ceiling Fan, Three Speed .....	690.73	188.67
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	26.35	
23 34 16 00-0228 EA 52" 5-Blade Ceiling Fan, Three Speed .....	787.37	188.67
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	26.50	
<b>23 34 16 00-0229 3 Blade Weatherproof Ceiling Fans (23 34 16 00-0223)</b>		
23 34 16 00-0230 EA 3-Blade Ceiling Fan, Weatherproof, Three Speed .....	642.47	70.00
<b>23 34 16 00-0231 Ceiling Fan Down Rod (23 34 16 00-0223)</b>		
23 34 16 00-0232 EA 1' Ceiling Fan Down Rod .....	26.33	
23 34 16 00-0233 EA 1-1/2' Ceiling Fan Down Rod .....	33.74	
23 34 16 00-0234 EA 2' Ceiling Fan Down Rod .....	37.44	
23 34 16 00-0235 EA 3' Ceiling Fan Down Rod .....	49.36	
23 34 16 00-0236 EA 4' Ceiling Fan Down Rod .....	57.49	
23 34 16 00-0237 EA 5' Ceiling Fan Down Rod .....	70.11	
23 34 16 00-0238 EA 6' Ceiling Fan Down Rod .....	87.06	
<b>23 34 16 00-0239 Explosion Proof Industrial Blowers (23 34 16 00-0203)</b>		
23 34 16 00-0240 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof .....	5,544.60	
23 34 16 00-0241 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof .....	6,091.08	
23 34 16 00-0242 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, Explosion Proof .....	8,110.80	
23 34 16 00-0243 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, Explosion Proof .....	8,487.02	
23 34 16 00-0244 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure .....	5,053.56	
23 34 16 00-0245 EA 355 To 500 CFM 1/3 HP Direct Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure .....	5,381.52	
23 34 16 00-0246 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polypropylene (PP) Wheel, Polyvinyl Chloride (PVC) Housing, TEFC Motor Enclosure .....	7,387.67	
23 34 16 00-0247 EA 355 To 500 CFM 1/3 HP Belt Drive Industrial Blower, To 1-1/4" S.P., Polyvinyl Chloride (PVC) Wheel And Housing, TEFC Motor Enclosure .....	8,006.47	
<b>23 34 16 00-0248 Exhaust Fans (23 34 16)</b>		
<b>23 34 16 00-0249 Exhaust Fans (23 34 16 00-0248)</b>		
Note: Excludes ducting.		
<b>23 34 16 00-0250 Light Duty Exhaust Fans (23 34 16 00-0249)</b>		





	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 34 16 00-0251</b>		<b>Light Duty Exhaust Fans</b> <small>(23 34 16 00-0250)</small>		
23 34 16 00-0252	EA	50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 670).....	176.32	61.61
23 34 16 00-0253	EA	70 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 671).....	185.20	61.61
23 34 16 00-0254	EA	180 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 505).....	291.69	61.61
23 34 16 00-0255	EA	350 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 504).....	362.91	61.61
23 34 16 00-0256	EA	160 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 503).....	326.75	61.61
23 34 16 00-0257	EA	270 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 502).....	427.87	61.61
<b>23 34 16 00-0258</b>		<b>Light Duty Exhaust Fans With Lights</b> <small>(23 34 16 00-0250)</small>		
23 34 16 00-0259	EA	50 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 678).....	223.77	61.61
23 34 16 00-0260	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 679).....	245.99	61.61
23 34 16 00-0261	EA	100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 680).....	441.45	61.61
<b>23 34 16 00-0262</b>		<b>Light Duty Exhaust Fans With Heaters</b> <small>(23 34 16 00-0250)</small>		
23 34 16 00-0263	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater Bulb (Broan® 162).....	228.59	61.61
23 34 16 00-0264	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater (Broan® 658).....	350.45	61.61
<b>23 34 16 00-0265</b>		<b>Light Duty Exhaust Fans With Heaters And Lights</b> <small>(23 34 16 00-0250)</small>		
23 34 16 00-0266	EA	70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 655).....	371.58	61.61
23 34 16 00-0267	EA	100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 100HL).....	552.97	61.61
<b>23 34 16 00-0268</b>		<b>Heavy Duty/Continuous Operation Exhaust Fans</b> <small>(23 34 16 00-0249)</small>		
<b>23 34 16 00-0269</b>		<b>Heavy Duty/Continuous Operation Exhaust Fans</b> <small>(23 34 16 00-0268)</small>		
		Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0270	EA	50 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50).....	262.15	61.61
23 34 16 00-0271	EA	80 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80).....	287.62	61.61
23 34 16 00-0272	EA	109 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L100MG).....	508.07	61.61
23 34 16 00-0273	EA	157 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L150MG).....	519.88	61.61
23 34 16 00-0274	EA	210 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L200MG).....	556.62	61.61
23 34 16 00-0275	EA	259 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L250MG).....	580.09	61.61
23 34 16 00-0276	EA	308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300MG).....	589.19	61.61
23 34 16 00-0277	EA	434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400).....	671.20	61.61
23 34 16 00-0278	EA	514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500).....	761.66	61.61
23 34 16 00-0279	EA	701 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L700).....	813.18	61.61
23 34 16 00-0280	EA	901 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L900).....	963.70	61.61
23 34 16 00-0281	EA	1,513 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L1500).....	1,231.83	61.61
<b>23 34 16 00-0282</b>		<b>Heavy Duty/Continuous Operation Kitchen Exhaust Fans</b> <small>(23 34 16 00-0268)</small>		
		Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0283	EA	308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300KMG).....	526.76	61.61
23 34 16 00-0284	EA	434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400K).....	754.89	61.61
23 34 16 00-0285	EA	514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500K).....	797.14	61.61
<b>23 34 16 00-0286</b>		<b>Heavy Duty/Continuous Operation Exhaust Fans With Lights</b> <small>(23 34 16 00-0268)</small>		
23 34 16 00-0287	EA	50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD50L).....	283.00	61.61
23 34 16 00-0288	EA	80 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD80L).....	306.93	61.61
<b>23 34 16 00-0289</b>		<b>Fire Rated, Heavy Duty/Continuous Operation Exhaust Fans</b> <small>(23 34 16 00-0268)</small>		
23 34 16 00-0290	EA	50 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50RDF).....	293.51	61.61

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 34 HVAC Fans**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0291 EA 80 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80RDF).....	309.35	61.61
23 34 16 00-0292 EA 110 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® 110RDF).....	316.99	61.61
<b>23 34 16 00-0293 Low Sound, Direct Drive, Centrifugal Ceiling Exhaust Fans (23 34 16 00-0249)</b>		
23 34 16 00-0294 EA 900 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A900).....	1,320.84	61.61
23 34 16 00-0295 EA 1050 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1050).....	1,320.84	61.61
23 34 16 00-0296 EA 1410 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1410).....	1,320.84	61.61
23 34 16 00-0297 EA 1550 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1550).....	1,447.35	61.61
<b>23 34 16 00-0298 Room-To-Room Exhaust Fans (23 34 16 00-0249)</b>		
23 34 16 00-0299 EA 90 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 512).....	217.79	61.61
23 34 16 00-0300 EA 180 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 511).....	347.14	61.61
23 34 16 00-0301 EA 380 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 510).....	394.27	61.61
<b>23 34 16 00-0302 Through-Wall Exhaust Fans (23 34 16 00-0249)</b>		
23 34 16 00-0303 EA 250 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 507).....	369.63	61.61
23 34 16 00-0304 EA 470 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 506).....	434.59	61.61
23 34 16 00-0305 EA 180 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 509).....	324.96	61.61
23 34 16 00-0306 EA 270 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 508).....	427.87	61.61
23 34 16 00-0307 EA 360 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan With Motorized Door (Broan® 12C).....	732.54	61.61
<b>23 34 16 00-0308 Exhaust Fan Accessories (23 34 16 00-0249)</b>		
<b>23 34 16 00-0309 Exhaust Fan Controls (23 34 16 00-0308)</b>		
23 34 16 00-0310 EA Electronic Variable Speed Control Dial, Single Gang, Exhaust Fan Controls (Broan® 57).....	204.70	38.51
23 34 16 00-0311 EA 60-Minute Time Control Dial, Single Gang, Exhaust Fan Controls (Broan® 59).....	147.24	38.51
23 34 16 00-0312 EA 60-Minute Time Control Dial With Rocker Switch, Double Gang, Exhaust Fan Controls (Broan® 61).....	148.61	38.51
<b>23 34 16 00-0313 Roof And Wall Caps For Exhaust Fans (23 34 16 00-0308)</b>		
<b>23 34 16 00-0314 Wall Caps For Exhaust Fans (23 34 16 00-0313)</b>		
23 34 16 00-0315 EA Aluminum Wall Cap For Up To 12" Duct, Installed On Exterior Walls (Broan® 613).....	331.07	76.80
23 34 16 00-0316 EA Aluminum Wall Cap For Up To 18" Duct, Installed On Exterior Walls (Broan® 643).....	335.59	76.80
<b>23 34 16 00-0317 Roof Caps For Exhaust Fans (23 34 16 00-0313)</b>		
Note: Includes flashing and built in bird screen.		
23 34 16 00-0318 EA Aluminum Roof Cap For Up To 8" Duct, Installed On Flat Roofs (Broan® 611).....	284.38	76.80
23 34 16 00-0319 EA Aluminum Roof Cap For Up To 12" Duct, Installed On Flat Roofs (Broan® 612).....	401.86	76.80
23 34 16 00-0320 EA CRCQ Steel Roof Cap For Up To 4" Duct, Installed On Sloped Roofs (Broan® 636).....	194.08	76.80
23 34 16 00-0321 EA CRCQ Steel Roof Cap For Up To 8" Duct, Installed On Sloped Roofs (Broan® 634).....	229.32	76.80
<b>23 34 16 00-0322 Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan (23 34 16 00-0249)</b>		
Note: Includes storage and cleaning.		
23 34 16 00-0323 EA Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan.....	106.06	
<b>23 34 23 HVAC Power Ventilators (23 34)</b>		
<b>23 34 23 00-0001 Power Roof Ventilators (23 34 23)</b>		
<b>23 34 23 00-0002 Direct Drive, Aluminum, Centrifugal Roof Exhausters (23 34 23 00-0001)</b>		
Note: Greenheck G.		
23 34 23 00-0003 EA 1/25 HP, 310 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	688.50	202.22
Note: Three speed motor.		
For 12" Roof Curb, Add	246.99	
For Backdraft Damper, Add	167.92	
For Solid State Speed Control, Add	126.24	
For Damper Motor, Add	292.11	
23 34 23 00-0004 EA 1/8 HP, 863 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	751.59	229.09
Note: Three speed motor.		
For 12" Roof Curb, Add	246.99	
For Backdraft Damper, Add	167.92	
For Solid State Speed Control, Add	126.24	
For Damper Motor, Add	292.11	
23 34 23 00-0005 EA 1/8 HP, 1,213 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,053.34	267.27
For 12" Roof Curb, Add	253.32	
For Backdraft Damper, Add	180.77	
For Solid State Speed Control, Add	126.24	
For Damper Motor, Add	292.11	
23 34 23 00-0006 EA 1/4 HP, 1,374 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster.....	1,089.19	301.21
For 12" Roof Curb, Add	253.32	
For Backdraft Damper, Add	180.77	
For Solid State Speed Control, Add	126.24	
For Damper Motor, Add	292.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0007 EA 1/3 HP, 1,905 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster ..... <i>For Solid State Speed Control, Add</i> <i>For Damper Motor, Add</i>	1,388.45 126.24 292.11	332.32
23 34 23 00-0008 EA 1/2 HP, 3,072 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster ..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Solid State Speed Control, Add</i> <i>For Damper Motor, Add</i>	1,575.20 263.88 205.17 191.70 292.11	353.53
<b>23 34 23 00-0009 Belt Drive, Aluminum, Centrifugal Roof Exhausters</b> <small>(23 34 23 00-0001)</small> Note: Greenheck GB.		
23 34 23 00-0010 EA 1/4 HP, 1,556 CFM At 1/4" Static Pressure, 19" x 19" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	1,602.53 253.32 180.77 292.11	360.02
23 34 23 00-0011 EA 1/3 HP, 1,966 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	1,743.76 263.88 205.17 292.11	382.21
23 34 23 00-0012 EA 1/2 HP, 2,943 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	2,338.26 263.88 205.17 292.11	456.77
23 34 23 00-0013 EA 3/4 HP, 4,289 CFM At 1/4" Static Pressure, 30" x 30" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	2,976.52 314.56 255.57 292.11	565.66
23 34 23 00-0014 EA 1 HP, 6,157 CFM At 1/4" Static Pressure, 34" x 34" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	3,911.75 337.79 277.09 292.11	707.07
23 34 23 00-0015 EA 1-1/2 HP, 8,906 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster ..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	6,246.38 373.69 307.27 292.11	883.84
23 34 23 00-0016 EA 2 HP, 10,059 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	6,297.06 373.69 307.27 292.11	883.84
23 34 23 00-0017 EA 3 HP, 11,703 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	6,843.97 373.69 307.27 292.11	883.84
23 34 23 00-0018 EA 5 HP, 13,897 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster..... <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	5,595.83 373.69 307.27 292.11	883.84
<b>23 34 23 00-0019 Propeller Exhaust Fans, Roof Mounted Upblast</b> <small>(23 34 23 00-0001)</small> Note: Includes back draft damper and birdscreen and curb.		
23 34 23 00-0020 EA 30,300 CFM Belt Drive 5 HP Propeller Exhaust Fan, Roof Mounted, 3/8" Static Pressure .....	8,870.98	1,087.48
23 34 23 00-0021 EA 36,000 CFM Belt Drive 15 HP Propeller Exhaust Fan, Roof Mounted, 1/2" Static Pressure .....	14,442.84	1,413.73
<b>23 34 23 00-0022 Belt Drive Supply Fans</b> <small>(23 34 23 00-0001)</small>		
23 34 23 00-0023 EA 4,500 CFM, 24" x 24" Supply Fan, Roof Mounted .....	3,539.77	564.66
23 34 23 00-0024 EA 10,000 CFM, 36" x 36" Supply Fan, Roof Mounted .....	4,769.65	706.93
<b>23 34 23 00-0025 Fan Thermostat</b> <small>(23 34 23 00-0001)</small>		
23 34 23 00-0026 EA 50 To 120 Degree Line Voltage Fan Thermostat.....	161.71	
<b>23 34 23 00-0027 Power Wall Ventilators</b> <small>(23 34 23)</small>		
<b>23 34 23 00-0028 Centrifugal Sidewall Exhausters</b> <small>(23 34 23 00-0027)</small>		
<b>23 34 23 00-0029 Direct Drive, Aluminum, Centrifugal Sidewall Exhauster</b> <small>(23 34 23 00-0028)</small> Note: Greenheck CW.		
23 34 23 00-0030 EA 1/25 HP, 297 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster ..... <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	920.89 191.70 228.89 495.32 140.84	227.68
23 34 23 00-0031 EA 1/8 HP, 861 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster ..... <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,058.89 191.70 253.29 495.32 167.60	267.27

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 34 HVAC Fans**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0032 EA 1/6 HP, 1,179 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster .....	1,541.78	301.21
For Solid State Speed Control, Add	191.70	
For Backdraft Damper, Add	286.36	
For Damper Motor, Add	495.32	
For Interior Wall Grill, Add	194.34	
<b>23 34 23 00-0033 Belt Drive, Aluminum, Centrifugal Sidewall Exhausters (23 34 23 00-0028)</b>		
Note: Greenheck CWB.		
23 34 23 00-0034 EA 1/4 HP, 1,633 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster .....	2,652.75	170.27
For Solid State Speed Control, Add	191.70	
For Backdraft Damper, Add	266.23	
For Damper Motor, Add	495.32	
For Interior Wall Grill, Add	295.00	
23 34 23 00-0035 EA 1/2 HP, 2,291 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster .....	2,805.51	191.75
For Solid State Speed Control, Add	191.70	
For Backdraft Damper, Add	266.23	
For Damper Motor, Add	495.32	
For Interior Wall Grill, Add	295.00	
23 34 23 00-0036 EA 3/4 HP, 3,646 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster .....	3,441.43	219.37
For Solid State Speed Control, Add	191.70	
For Backdraft Damper, Add	333.21	
For Damper Motor, Add	495.32	
For Interior Wall Grill, Add	342.87	
<b>23 34 33 Air Curtains (23 34)</b>		
<b>23 34 33 00-0001 Unheated Air Curtains For Entrances (23 34 33)</b>		
<b>23 34 33 00-0002 Unheated Air Curtains, Standard Velocity (23 34 33 00-0001)</b>		
23 34 33 00-0003 EA Air Curtain For 3' x 8' - 10' Personnel Entrance, Unheated.....	2,661.36	1,036.57
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	546.10	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	405.68	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	624.12	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0004 EA Air Curtain For 3.5' x 8' - 10' Personnel Entrance, Unheated.....	2,693.43	1,036.57
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	546.10	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	405.68	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	624.12	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0005 EA Air Curtain For 4' x 8' - 10' Personnel Entrance, Unheated.....	2,728.16	1,036.57
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	546.10	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	405.68	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	624.12	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0006 EA Air Curtain For 5' x 8' - 10' Personnel Entrance, Unheated.....	3,302.60	1,036.57
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	546.10	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	405.68	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	624.12	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0007 EA Air Curtain For 6' x 8' - 10' Personnel Entrance, Unheated.....	3,771.82	1,244.45
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	546.10	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	405.68	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	624.12	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0008 EA Air Curtain For 7' x 8' - 10' Personnel Entrance, Unheated.....	3,972.21	1,244.45
Note: Includes housing, mounting brackets and manual controls.		
<i>For Door Limit Switch, Combination Roller And Plunger, Add</i>	200.61	
<i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i>	546.10	
<i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i>	405.68	
<i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i>	624.12	
<i>For Flat Side Extension Plates, Add</i>	155.70	
<i>For Clearance Adjustable-Angle Mounting Bracket, Add</i>	311.40	
<i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	373.68	
<i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	394.44	
23 34 33 00-0009 EA Air Curtain For 8' x 8' - 10' Personnel Entrance, Unheated.....	4,422.59	1,435.36
Note: Includes housing, mounting brackets and manual controls.		
<i>For Door Limit Switch, Combination Roller And Plunger, Add</i>	200.61	
<i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i>	546.10	
<i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i>	405.68	
<i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i>	624.12	
<i>For Flat Side Extension Plates, Add</i>	155.70	
<i>For Clearance Adjustable-Angle Mounting Bracket, Add</i>	311.40	
<i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	373.68	
<i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	394.44	
23 34 33 00-0010 EA Air Curtain For 9' x 8' - 10' Personnel Entrance, Unheated.....	5,222.80	1,435.36
Note: Includes housing, mounting brackets and manual controls.		
<i>For Door Limit Switch, Combination Roller And Plunger, Add</i>	200.61	
<i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i>	546.10	
<i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i>	405.68	
<i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i>	624.12	
<i>For Flat Side Extension Plates, Add</i>	155.70	
<i>For Clearance Adjustable-Angle Mounting Bracket, Add</i>	311.40	
<i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	373.68	
<i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	394.44	
23 34 33 00-0011 EA Air Curtain For 10' x 8' - 10' Personnel Entrance, Unheated.....	5,324.33	1,435.36
Note: Includes housing, mounting brackets and manual controls.		
<i>For Door Limit Switch, Combination Roller And Plunger, Add</i>	200.61	
<i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i>	546.10	
<i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i>	405.68	
<i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i>	624.12	
<i>For Flat Side Extension Plates, Add</i>	155.70	
<i>For Clearance Adjustable-Angle Mounting Bracket, Add</i>	311.40	
<i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	373.68	
<i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	394.44	
23 34 33 00-0012 EA Air Curtain For 12' x 8' - 10' Personnel Entrance, Unheated.....	5,594.18	1,435.36
Note: Includes housing, mounting brackets and manual controls.		
<i>For Door Limit Switch, Combination Roller And Plunger, Add</i>	200.61	
<i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i>	546.10	
<i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i>	405.68	
<i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i>	624.12	
<i>For Flat Side Extension Plates, Add</i>	155.70	
<i>For Clearance Adjustable-Angle Mounting Bracket, Add</i>	311.40	
<i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	373.68	
<i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	394.44	
<b>23 34 33 00-0013 Unheated Air Curtains, High Velocity</b> <small>(23 34 33 00-0001)</small>		
23 34 33 00-0014 EA High Velocity Air Curtain For 3' x 10' - 12' Entrance, Unheated.....	3,193.05	1,036.57
Note: Includes housing, mounting brackets and manual controls.		
<i>For Door Limit Switch, Combination Roller And Plunger, Add</i>	200.61	
<i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i>	311.40	
<i>For Flat Side Extension Plates, Add</i>	155.70	
<i>For Clearance Adjustable-Angle Mounting Bracket, Add</i>	311.40	
<i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	373.68	
<i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	394.44	
23 34 33 00-0015 EA High Velocity Air Curtain For 3.5' x 10' - 12' Entrance, Unheated.....	3,234.47	1,036.57
Note: Includes housing, mounting brackets and manual controls.		
<i>For Door Limit Switch, Combination Roller And Plunger, Add</i>	200.61	
<i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i>	311.40	
<i>For Flat Side Extension Plates, Add</i>	155.70	
<i>For Clearance Adjustable-Angle Mounting Bracket, Add</i>	311.40	
<i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	373.68	
<i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	394.44	
23 34 33 00-0016 EA High Velocity Air Curtain For 4' x 10' - 12' Entrance, Unheated.....	3,251.83	1,036.57
Note: Includes housing, mounting brackets and manual controls.		
<i>For Door Limit Switch, Combination Roller And Plunger, Add</i>	200.61	
<i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i>	311.40	
<i>For Flat Side Extension Plates, Add</i>	155.70	
<i>For Clearance Adjustable-Angle Mounting Bracket, Add</i>	311.40	
<i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	373.68	
<i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	394.44	
23 34 33 00-0017 EA High Velocity Air Curtain For 5' x 10' - 12' Entrance, Unheated.....	3,285.23	1,036.57
Note: Includes housing, mounting brackets and manual controls.		
<i>For Door Limit Switch, Combination Roller And Plunger, Add</i>	200.61	
<i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i>	311.40	
<i>For Flat Side Extension Plates, Add</i>	155.70	
<i>For Clearance Adjustable-Angle Mounting Bracket, Add</i>	311.40	
<i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	373.68	
<i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	394.44	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0018 EA High Velocity Air Curtain For 6' x 10' - 12' Entrance, Unheated.....	4,990.16	1,244.45
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	311.40	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0019 EA High Velocity Air Curtain For 7' x 10' - 12' Entrance, Unheated.....	5,195.89	1,244.45
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	311.40	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0020 EA High Velocity Air Curtain For 8' x 10' - 12' Entrance, Unheated.....	5,570.13	1,435.36
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	311.40	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0021 EA High Velocity Air Curtain For 9' x 10' - 12' Entrance, Unheated.....	6,282.17	1,435.36
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	311.40	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0022 EA High Velocity Air Curtain For 10' x 10' - 12' Entrance, Unheated.....	6,356.98	1,435.36
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	311.40	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0023 EA High Velocity Air Curtain For 12' x 10' - 12' Entrance, Unheated.....	6,648.20	1,435.36
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Industrial Floor-Mounted Magnetic Reed Switch Only, Add	311.40	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
<b>23 34 33 00-0024 Service Window Unheated Air Curtains (23 34 33 00-0001)</b>		
Note: Normal window sizes.		
23 34 33 00-0025 EA Air Curtain For 2.5' x 5' Service Window, Unheated.....	2,421.00	817.37
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
<b>23 34 33 00-0026 Heated Air Curtains For Entrances (23 34 33)</b>		
Note: Includes housing, mounting brackets and manual controls.		
23 34 33 00-0027 EA 60" Heated Air Curtain With 1- 300 MBH Heater.....	4,288.21	912.84
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0028 EA 60" Heated Air Curtain With 1- 400 MBH Heater.....	4,616.49	912.84
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	
23 34 33 00-0029 EA 72" Heated Air Curtain With 1- 350 MBH Heater.....	5,144.94	1,095.25
For Door Limit Switch, Combination Roller And Plunger, Add	200.61	
For Flat Side Extension Plates, Add	155.70	
For Clearance Adjustable-Angle Mounting Bracket, Add	311.40	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	373.68	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	394.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0030 EA 72" Heated Air Curtain With 2- 250 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	5,538.87 200.61 155.70 311.40 373.68 394.44	1,095.25
23 34 33 00-0031 EA 96" Heated Air Curtain With 1- 400 MBH Heater ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	6,858.71 200.61 155.70 311.40 373.68 394.44	1,460.11
23 34 33 00-0032 EA 96" Heated Air Curtain With 2- 350 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	7,383.96 200.61 155.70 311.40 373.68 394.44	1,460.11
23 34 33 00-0033 EA 117" Heated Air Curtain With 2- 300 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	8,357.77 200.61 155.70 311.40 373.68 394.44	1,779.00
23 34 33 00-0034 EA 117" Heated Air Curtain With 2- 400 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	8,997.91 200.61 155.70 311.40 373.68 394.44	1,779.00
23 34 33 00-0035 EA 147" Heated Air Curtain With 2- 350 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	10,501.59 200.61 155.70 311.40 373.68 394.44	2,235.06
23 34 33 00-0036 EA 147" Heated Air Curtain With 3- 350 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	12,093.74 200.61 155.70 311.40 373.68 394.44	2,235.06
23 34 33 00-0037 EA 168" Heated Air Curtain With 2- 400 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	12,002.74 200.61 155.70 311.40 373.68 394.44	2,554.66
23 34 33 00-0038 EA 168" Heated Air Curtain With 3- 400 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	13,821.95 200.61 155.70 311.40 373.68 394.44	2,554.66
23 34 33 00-0039 EA 192" Heated Air Curtain With 2- 400 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	13,712.61 200.61 155.70 311.40 373.68 394.44	2,919.51
23 34 33 00-0040 EA 192" Heated Air Curtain With 4- 350 MBH Heaters ..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	15,791.70 200.61 155.70 311.40 373.68 394.44	2,919.51

**23 35 Special Exhaust Systems** (23 30)  
See CSI section 23 31 13 16-0075 for spiral duct/piping.

**23 35 13 Dust Collection Systems** (23 35)

**23 35 13 13 Sawdust Collection Systems** (23 35 13)

**23 35 13 13-0001 Dust Collector System** (23 35 13 13)

23 35 13 13-0002 EA 1.5 HP Dust Collector Central Vacuum Unit ..... Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.	4,995.63	1,227.21
23 35 13 13-0003 EA 2 HP Dust Collector Central Vacuum Unit ..... Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.	5,631.38	1,457.31
23 35 13 13-0004 EA 2-1/2 HP Dust Collector Central Vacuum Unit ..... Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.	6,741.91	1,687.41
23 35 13 13-0005 EA 3 HP Dust Collector Central Vacuum Unit ..... Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.	7,716.11	1,994.20
23 35 13 13-0006 EA 5 HP Dust Collector Central Vacuum Unit ..... Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.	15,364.29	2,188.84

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 35 Special Exhaust Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 13 13-0007 EA 7-1/2 HP Dust Collector Central Vacuum Unit..... Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.	18,607.50	2,553.65
23 35 13 13-0008 EA 10 HP Dust Collector Central Vacuum Unit..... Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.	21,312.06	2,918.47
23 35 13 13-0009 EA 15 HP Dust Collector Central Vacuum Unit..... Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.	23,988.48	3,356.23
23 35 13 13-0010 EA 20 HP Dust Collector Central Vacuum Unit..... Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.	26,783.56	3,793.99
<b>23 35 13 13-0011 Vacuum Tubing And Accessories (23 35 13 13)</b>		
<b>23 35 13 13-0012 Galvanized Vacuum Tubing (23 35 13 13-0011)</b>		
23 35 13 13-0013 LF 2-1/8" Outside Diameter Vacuum Tubing, Galvanized.....	11.40	2.54
23 35 13 13-0014 LF 2-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	12.70	2.69
23 35 13 13-0015 LF 3" Outside Diameter Vacuum Tubing, Galvanized.....	14.91	2.83
23 35 13 13-0016 LF 3-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	19.07	2.97
23 35 13 13-0017 LF 4" Outside Diameter Vacuum Tubing, Galvanized.....	19.63	3.11
23 35 13 13-0018 LF 5" Outside Diameter Vacuum Tubing, Galvanized.....	31.69	3.54
23 35 13 13-0019 LF 6" Outside Diameter Vacuum Tubing, Galvanized.....	35.75	4.10
23 35 13 13-0020 LF 8" Outside Diameter Vacuum Tubing, Galvanized.....	48.45	5.65
23 35 13 13-0021 LF 10" Outside Diameter Vacuum Tubing, Galvanized.....	56.97	7.07
23 35 13 13-0022 LF 12" Outside Diameter Vacuum Tubing, Galvanized.....	137.87	9.33
<b>23 35 13 13-0023 Vacuum Fittings, Galvanized (23 35 13 13-0011)</b>		
<b>23 35 13 13-0024 90 Degree Elbow (23 35 13 13-0023)</b>		
23 35 13 13-0025 EA 2-1/8" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	59.00	16.26
23 35 13 13-0026 EA 2-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	71.64	17.40
23 35 13 13-0027 EA 3" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	87.88	18.95
23 35 13 13-0028 EA 3-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	102.79	20.51
23 35 13 13-0029 EA 4" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	121.50	22.63
23 35 13 13-0030 EA 5" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	194.54	25.17
23 35 13 13-0031 EA 6" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	255.59	28.28
23 35 13 13-0032 EA 8" 90 Degree Elbow, Vacuum Tubing, Galvanized.....	451.99	37.75
<b>23 35 13 13-0033 45 Degree Elbow (23 35 13 13-0023)</b>		
23 35 13 13-0034 EA 2-1/8" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	55.80	16.26
23 35 13 13-0035 EA 2-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	69.00	17.40
23 35 13 13-0036 EA 3" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	79.02	18.95
23 35 13 13-0037 EA 3-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	92.80	20.51
23 35 13 13-0038 EA 4" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	112.26	22.63
23 35 13 13-0039 EA 5" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	162.49	25.17
23 35 13 13-0040 EA 6" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	208.45	28.28
23 35 13 13-0041 EA 8" 45 Degree Elbow, Vacuum Tubing, Galvanized.....	372.80	37.75
<b>23 35 13 13-0042 Wye (23 35 13 13-0023)</b>		
23 35 13 13-0043 EA 2-1/8" Wye, Vacuum Tubing, Galvanized.....	105.77	26.87
23 35 13 13-0044 EA 2-1/2" Wye, Vacuum Tubing, Galvanized.....	125.26	28.98
23 35 13 13-0045 EA 3" Wye, Vacuum Tubing, Galvanized.....	150.71	31.11
23 35 13 13-0046 EA 3-1/2" Wye, Vacuum Tubing, Galvanized.....	181.07	34.65
23 35 13 13-0047 EA 4" Wye, Vacuum Tubing, Galvanized.....	237.02	37.47
23 35 13 13-0048 EA 5" Wye, Vacuum Tubing, Galvanized.....	388.91	41.72
23 35 13 13-0049 EA 6" Wye, Vacuum Tubing, Galvanized.....	510.87	47.37
23 35 13 13-0050 EA 8" Wye, Vacuum Tubing, Galvanized.....	987.14	51.61
23 35 13 13-0051 EA 10" Wye, Vacuum Tubing, Galvanized.....	1,359.20	56.56
23 35 13 13-0052 EA 12" Wye, Vacuum Tubing, Galvanized.....	1,712.94	63.35
<b>23 35 13 13-0053 Reducer (23 35 13 13-0023)</b>		
23 35 13 13-0054 EA 3" Reducer, Vacuum Tubing, Galvanized.....	62.04	18.95
23 35 13 13-0055 EA 4" Reducer, Vacuum Tubing, Galvanized.....	68.75	20.51
23 35 13 13-0056 EA 5" Reducer, Vacuum Tubing, Galvanized.....	85.08	22.63
23 35 13 13-0057 EA 6" Reducer, Vacuum Tubing, Galvanized.....	92.18	25.17
23 35 13 13-0058 EA 8" Reducer, Vacuum Tubing, Galvanized.....	107.24	28.28
<b>23 35 13 13-0059 Flexible Hose (23 35 13 13-0011)</b>		
23 35 13 13-0060 LF 2" Flexible Hose.....	13.79	2.54
23 35 13 13-0061 LF 3" Flexible Hose.....	16.42	2.83
23 35 13 13-0062 LF 4" Flexible Hose.....	17.84	3.11
<b>23 35 13 13-0063 Air Gate Valve, Galvanized (23 35 13 13-0011)</b>		
23 35 13 13-0064 EA 2-1/8" Air Gate Valve, Vacuum Tubing, Galvanized.....	380.53	37.75
23 35 13 13-0065 EA 2-1/2" Air Gate Valve, Vacuum Tubing, Galvanized.....	399.04	40.30
23 35 13 13-0066 EA 3" Air Gate Valve, Vacuum Tubing, Galvanized.....	457.12	43.42
23 35 13 13-0067 EA 3-1/2" Air Gate Valve, Vacuum Tubing, Galvanized.....	518.65	46.38





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 13 13-0068 EA 4" Air Gate Valve, Vacuum Tubing, Galvanized .....	583.50	49.21
23 35 13 13-0069 EA 5" Air Gate Valve, Vacuum Tubing, Galvanized .....	687.91	56.14
23 35 13 13-0070 EA 6" Air Gate Valve, Vacuum Tubing, Galvanized .....	791.14	62.93
<b>23 35 16 Engine Exhaust Systems (23 35)</b>		
<b>23 35 16 16 Mechanical Engine Exhaust Systems (23 35 16)</b>		
23 35 16 16-0001 Tailpipe Exhaust Equipment (23 35 16 16)		
23 35 16 16-0002 Overhead Tailpipe Exhaust System (23 35 16 16-0001)		
23 35 16 16-0003 Overhead Tailpipe Exhaust Blowers (23 35 16 16-0002)		
23 35 16 16-0004 Overhead Direct Drive Tailpipe Exhaust Blowers (23 35 16 16-0003)		
23 35 16 16-0005 EA 495 CFM 1/3 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System .....	3,833.99	301.21
23 35 16 16-0006 EA 1,445 CFM 3/4 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System .....	4,519.86	615.15
23 35 16 16-0007 EA 1,840 CFM 1-1/2 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System .....	6,256.24	745.25
23 35 16 16-0008 Overhead Belt Drive Tailpipe Exhaust Blowers (23 35 16 16-0003)		
23 35 16 16-0009 EA 1,400 CFM 1 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System .....	4,399.86	615.15
23 35 16 16-0010 EA 2,023 CFM 1-1/2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System .....	4,714.79	745.25
23 35 16 16-0011 EA 2,750 CFM 2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System .....	5,732.86	1,179.40
23 35 16 16-0012 EA 4,400 CFM 3 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System .....	7,039.95	1,521.62
23 35 16 16-0013 EA 7,060 CFM 5 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System .....	8,863.51	1,812.94
23 35 16 16-0014 Spiral Exhaust Duct Accessories (23 35 16 16-0002)		
23 35 16 16-0015 Flex Hose x Length (23 35 16 16-0014)		
Note: Includes duct coupler, damper and tailpipe adapter.		
23 35 16 16-0016 EA 3" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	204.75	74.95
23 35 16 16-0017 EA 3" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	179.23	74.95
23 35 16 16-0018 EA 4" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	315.48	118.79
23 35 16 16-0019 EA 4" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	272.84	118.79
23 35 16 16-0020 EA 5" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	455.83	188.08
23 35 16 16-0021 EA 5" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	440.56	188.08
23 35 16 16-0022 EA 6" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	700.85	298.39
23 35 16 16-0023 EA 6" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	668.75	298.39
23 35 16 16-0024 Flex Hose With Duct Coupler, Damper And Diesel Exhaust Adapter (23 35 16 16-0014)		
23 35 16 16-0025 EA 4" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	225.10	74.95
23 35 16 16-0026 EA 5" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	330.34	118.79
23 35 16 16-0027 EA 4" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	195.70	74.95
23 35 16 16-0028 EA 5" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	286.73	118.79
23 35 16 16-0029 EA 6" x 25' High Pressure, Stainless Steel Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter .....	1,581.26	100.97
23 35 16 16-0030 EA 8" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter .....	1,420.26	185.25
23 35 16 16-0031 EA 10" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter .....	1,558.46	185.25
23 35 16 16-0032 LF 8" Heat-Resistant Fabric Flex Hose (650 Degree F.) .....	76.31	14.42
23 35 16 16-0033 LF 10" Heat-Resistant Fabric Flex Hose (650 Degree F.) .....	84.80	14.42
23 35 16 16-0034 Flexible Hose (23 35 16 16-0014)		
23 35 16 16-0035 LF 3" Stainless Steel Flexible Tubing .....	41.58	3.54
23 35 16 16-0036 LF 4" Stainless Steel Flexible Tubing .....	52.71	3.96
23 35 16 16-0037 LF 5" Stainless Steel Flexible Tubing .....	62.46	4.10
23 35 16 16-0038 LF 6" Stainless Steel Flexible Tubing .....	73.54	4.38
23 35 16 16-0039 LF 3" Galvanized Flexible Tubing .....	25.34	3.54
23 35 16 16-0040 LF 4" Galvanized Flexible Tubing .....	29.68	3.96
23 35 16 16-0041 LF 5" Galvanized Flexible Tubing .....	33.94	4.10
23 35 16 16-0042 LF 6" Galvanized Flexible Tubing .....	37.80	4.38
23 35 16 16-0043 Accessories (23 35 16 16-0002)		
23 35 16 16-0044 EA 3" Tail Pipe Adapter .....	63.39	10.61
23 35 16 16-0045 EA 4" Tail Pipe Adapter .....	65.08	10.61
23 35 16 16-0046 EA 5" Tail Pipe Adapter .....	69.60	12.02
23 35 16 16-0047 EA 3" Bullnose (Guide) .....	35.70	7.07
23 35 16 16-0048 EA 4" Bullnose (Guide) .....	38.06	7.77
23 35 16 16-0049 EA 5" Bullnose (Guide) .....	40.69	8.49
23 35 16 16-0050 EA Flex-Hose Winch And Associated Hardware .....	273.88	80.19
23 35 16 16-0051 LF Flex-Hose Winch Cable, 1/8" Galvanized Wire Rope .....	0.14	
23 35 16 16-0052 Automatic Exhaust Extraction System (23 35 16 16-0001)		
Note: (Neiderman System) Includes track, hydraulic shock absorber, automatic disconnect box, flexible hose, electromagnetic ergonomic positioner, nozzle, power supply and accessories.		
23 35 16 16-0053 EA Magnatrack System For One Vehicle (30" To 40" Track) .....	40,344.75	
23 35 16 16-0054 EA Magnatrack System For Two Vehicles (2 Each 30" Tracks) .....	58,275.75	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 35 Special Exhaust Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 16 16-0055 EA Magnatrack System For Tandem Vehicles (2 Each 30" Tracks).....	58,275.75	
23 35 16 16-0056 EA Magnarail System For One Vehicle (33" Rail).....	47,816.00	
23 35 16 16-0057 EA Magnarail System For Two Vehicles in Tandem (66" Rail).....	71,724.00	
23 35 16 16-0058 EA Magnastack For One Vehicle, Vertical Exhaust Stacks (30" Stack).....	37,356.25	
<b>23 35 19 Fume Exhaust Systems (23 35)</b>		
23 35 19 00-0001 EA Fume Exhauster, 1 1/2 HP 630 CFM With Out Hose And Intake Nozzle.....	2,815.64	565.24
23 35 19 00-0002 EA Hose Extension Kit 5'.....	491.98	125.57
<b>23 36 Air Terminal Units (23 30)</b>		
<b>23 36 13 Constant-Air-Volume Units (23 36)</b>		
<b>23 36 13 00-0001 Vertical Units, With Electric Heating Coils (23 36 13)</b>		
23 36 13 00-0002 EA 60 CFM Vertical Induction Unit, With Electric Heating Coils.....	1,776.43	199.13
23 36 13 00-0003 EA 90 CFM Vertical Induction Unit, With Electric Heating Coils.....	2,125.17	214.45
23 36 13 00-0004 EA 120 CFM Vertical Induction Unit, With Electric Heating Coils.....	2,264.12	222.11
23 36 13 00-0005 EA 150 CFM Vertical Induction Unit, With Electric Heating Coils.....	2,418.37	237.42
23 36 13 00-0006 EA 175 CFM Vertical Induction Unit, With Electric Heating Coils.....	2,717.28	245.08
<b>23 36 13 00-0007 Horizontal Units, With Electric Heating Coils (23 36 13)</b>		
23 36 13 00-0008 EA 60 CFM Horizontal Induction Unit, With Electric Heating Coils.....	1,522.07	199.13
23 36 13 00-0009 EA 90 CFM Horizontal Induction Unit, With Electric Heating Coils.....	1,807.07	214.45
23 36 13 00-0010 EA 120 CFM Horizontal Induction Unit, With Electric Heating Coils.....	2,142.06	225.94
<b>23 36 13 00-0011 Duct Boxes, Constant Volume Control (23 36 13)</b>		
<b>23 36 13 00-0012 Single Duct Boxes, Constant Volume Control (23 36 13 00-0011)</b>		
23 36 13 00-0013 EA 4 - 6" Diameter Inlet, 50 - 240 CFM, Single Duct Boxes, Constant Volume Control.....	1,427.31	58.30
For Boxes With Motor, Add	239.44	
23 36 13 00-0014 EA 6 - 8" Diameter Inlet, 100 - 480 CFM, Single Duct Boxes, Constant Volume Control.....	1,579.08	62.89
For Boxes With Motor, Add	265.61	
23 36 13 00-0015 EA 7 - 10" Diameter Inlet, 150 - 720 CFM, Single Duct Boxes, Constant Volume Control.....	1,643.43	69.03
For Boxes With Motor, Add	273.46	
23 36 13 00-0016 EA 9 - 12" Diameter Inlet, 200 - 960 CFM, Single Duct Boxes, Constant Volume Control.....	1,674.57	72.10
For Boxes With Motor, Add	277.39	
23 36 13 00-0017 EA 12" Diameter Inlet, 250 - 1,200 CFM, Single Duct Boxes, Constant Volume Control.....	1,704.32	79.77
For Boxes With Motor, Add	277.39	
23 36 13 00-0018 EA 14" Diameter Inlet, 350 - 1,680 CFM, Single Duct Boxes, Constant Volume Control.....	1,948.34	88.97
For Boxes With Motor, Add	317.95	
23 36 13 00-0019 EA 16" Diameter Inlet, 450 - 2,160 CFM, Single Duct Boxes, Constant Volume Control.....	2,048.79	99.71
For Boxes With Motor, Add	329.72	
23 36 13 00-0020 EA 20" x 16" Inlet, 550 - 2,640 CFM, Single Duct Boxes, Constant Volume Control.....	2,184.15	119.66
For Boxes With Motor, Add	341.62	
23 36 13 00-0021 EA 24" x 16" Inlet, 650 - 3,120 CFM, Single Duct Boxes, Constant Volume Control.....	2,318.63	138.06
For Boxes With Motor, Add	353.28	
<b>23 36 13 00-0022 Dual Duct Boxes, Constant Volume Control (23 36 13 00-0011)</b>		
23 36 13 00-0023 EA 4 - 6" Diameter Inlet, 50 - 240 CFM, Dual Duct Boxes, Constant Volume Control.....	1,990.53	58.30
For Boxes With Motor, Add	352.09	
23 36 13 00-0024 EA 6 - 8" Diameter Inlet, 100 - 480 CFM, Dual Duct Boxes, Constant Volume Control.....	2,130.29	62.89
For Boxes With Motor, Add	375.85	
23 36 13 00-0025 EA 7 - 10" Diameter Inlet, 150 - 720 CFM, Dual Duct Boxes, Constant Volume Control.....	2,225.96	69.03
For Boxes With Motor, Add	389.97	
23 36 13 00-0026 EA 9 - 12" Diameter Inlet, 200 - 960 CFM, Dual Duct Boxes, Constant Volume Control.....	2,319.18	72.10
For Boxes With Motor, Add	406.31	
23 36 13 00-0027 EA 12" Diameter Inlet, 250 - 1,200 CFM, Dual Duct Boxes, Constant Volume Control.....	2,348.93	79.77
For Boxes With Motor, Add	406.31	
23 36 13 00-0028 EA 14" Diameter Inlet, 350 - 1,680 CFM, Dual Duct Boxes, Constant Volume Control.....	2,698.41	90.51
For Boxes With Motor, Add	467.96	
23 36 13 00-0029 EA 16" Diameter Inlet, 450 - 2,160 CFM, Dual Duct Boxes, Constant Volume Control.....	2,951.44	99.71
For Boxes With Motor, Add	510.30	
23 36 13 00-0030 EA 20" x 16" Inlet, 550 - 2,640 CFM, Dual Duct Boxes, Constant Volume Control.....	3,187.27	119.66
For Boxes With Motor, Add	542.24	
23 36 13 00-0031 EA 24" x 16" Inlet, 650 - 3,120 CFM, Dual Duct Boxes, Constant Volume Control.....	3,337.73	138.06
For Boxes With Motor, Add	557.10	
<b>23 36 16 Variable-Air-Volume Units (23 36)</b>		
<b>23 36 16 00-0001 Variable Volume Terminal Unit (23 36 16)</b>		
Note: Includes flow controllers, insulated plenum, system powered box mounted thermostat.		
<b>23 36 16 00-0002 Single Duct Variable Volume Terminal Unit (23 36 16 00-0001)</b>		
Note: Enclosure only. For mounting DDC controls.		
23 36 16 00-0003 EA 6" Diameter Inlet, 80 To 500 CFM, Variable Air Volume Box With Enclosure Only.....	654.13	70.56
Note: For mounting DDC controls		
For Filters And Frames, Add	6.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 16 00-0004 EA 8" Diameter Inlet, 145 To 900 CFM, Variable Air Volume Box With Enclosure Only ..... Note: For mounting DDC controls <i>For Filters And Frames, Add</i>	732.95 6.30	79.77
23 36 16 00-0005 EA 10" Diameter Inlet, 230 To 1,400 CFM, Variable Air Volume Box With Enclosure Only ..... Note: For mounting DDC controls <i>For Filters And Frames, Add</i>	816.88 6.30	88.97
23 36 16 00-0006 EA 12" Diameter Inlet, 325 To 2,000 CFM, Variable Air Volume Box With Enclosure Only ..... Note: For mounting DDC controls <i>For Filters And Frames, Add</i>	875.04 6.30	99.71
23 36 16 00-0007 EA 14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With Enclosure Only ..... Note: For mounting DDC controls <i>For Filters And Frames, Add</i>	1,203.26 6.30	214.61
23 36 16 00-0008 EA 16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With Enclosure Only ..... Note: For mounting DDC controls <i>For Filters And Frames, Add</i>	1,474.91 6.30	254.65
<b>23 36 16 00-0009 Single Duct Variable Volume Terminal Unit</b> <small>(23 36 16 00-0001)</small> Note: With pneumatic controls.		
23 36 16 00-0010 EA 6" Diameter Inlet, 80 - 500 CFM, Variable Air Volume Box With pneumatic controller ..... <i>For Fan Powered Variable Air Volume Box, Add</i> <i>For Hot Water Coils, Add</i> <i>For Pressure Independent Actuator, Add</i> <i>For Filters And Frames, Add</i>	1,312.14 1,340.88 419.02 67.57 6.30	70.56
23 36 16 00-0011 EA 8" Diameter Inlet, 145 - 900 CFM, Variable Air Volume Box With pneumatic controller ..... <i>For Fan Powered Variable Air Volume Box, Add</i> <i>For Hot Water Coils, Add</i> <i>For Pressure Independent Actuator, Add</i> <i>For Filters And Frames, Add</i>	1,421.84 1,436.74 447.92 67.57 6.30	79.77
23 36 16 00-0012 EA 10" Diameter Inlet, 230 - 1,400 CFM, Variable Air Volume Box With pneumatic controller ..... <i>For Fan Powered Variable Air Volume Box, Add</i> <i>For Hot Water Coils, Add</i> <i>For Pressure Independent Actuator, Add</i> <i>For Filters And Frames, Add</i>	1,493.90 1,482.62 460.44 67.57 6.30	88.97
23 36 16 00-0013 EA 12" Diameter Inlet, 325 - 2,000 CFM, Variable Air Volume Box With pneumatic controller ..... <i>For Fan Powered Variable Air Volume Box, Add</i> <i>For Hot Water Coils, Add</i> <i>For Pressure Independent Actuator, Add</i> <i>For Filters And Frames, Add</i>	1,563.93 1,525.58 472.00 67.57 6.30	99.71
23 36 16 00-0014 EA 14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With pneumatic controller ..... <i>For Fan Powered Variable Air Volume Box, Add</i> <i>For Hot Water Coils, Add</i> <i>For Pressure Independent Actuator, Add</i> <i>For Filters And Frames, Add</i>	1,828.02 1,715.00 525.94 67.57 6.30	214.61
23 36 16 00-0015 EA 16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With pneumatic controller ..... <i>For Fan Powered Variable Air Volume Box, Add</i> <i>For Hot Water Coils, Add</i> <i>For Pressure Independent Actuator, Add</i> <i>For Filters And Frames, Add</i>	2,151.92 1,866.51 561.58 67.57 6.30	254.65
<b>23 36 16 00-0016 Single Duct Variable Volume Terminal Unit</b> <small>(23 36 16 00-0001)</small> Note: With analog electronic controls.		
23 36 16 00-0017 EA 6" Diameter Inlet, 60 To 500 CFM, Variable Air Volume Box With Analog Electronic Controls ..... <i>For Hot Water Coils, Add</i> <i>For Filters And Frames, Add</i>	2,131.68 751.34 6.30	70.56
23 36 16 00-0018 EA 8" Diameter Inlet, 105 To 900 CFM, Variable Air Volume Box With Analog Electronic Controls ..... <i>For Hot Water Coils, Add</i> <i>For Filters And Frames, Add</i>	2,222.38 772.53 6.30	79.77
23 36 16 00-0019 EA 10" Diameter Inlet, 165 To 1,400 CFM, Variable Air Volume Box With Analog Electronic Controls ..... <i>For Hot Water Coils, Add</i> <i>For Filters And Frames, Add</i>	2,306.31 789.87 6.30	88.97
23 36 16 00-0020 EA 12" Diameter Inlet, 235 To 2,000 CFM, Variable Air Volume Box With Analog Electronic Controls ..... <i>For Hot Water Coils, Add</i> <i>For Filters And Frames, Add</i>	2,421.48 819.73 6.30	99.71
23 36 16 00-0021 EA 14" Diameter Inlet, 320 To 3,000 CFM, Variable Air Volume Box With Analog Electronic Controls ..... <i>For Hot Water Coils, Add</i> <i>For Filters And Frames, Add</i>	2,687.95 874.64 6.30	214.61
23 36 16 00-0022 EA 16" Diameter Inlet, 420 To 4,000 CFM, Variable Air Volume Box With Analog Electronic Controls ..... <i>For Hot Water Coils, Add</i> <i>For Filters And Frames, Add</i>	2,735.46 893.91 6.30	214.61
<b>23 36 16 00-0023 Dual Duct Variable Volume Terminal Unit</b> <small>(23 36 16 00-0001)</small> Note: With flow control installation, plenum system power box, thermostat.		
23 36 16 00-0024 EA 6" Diameter Inlet, 75 - 500 CFM, Variable Air Volume Box, Dual Duct..... <i>For Filters And Frames, Add</i>	1,478.53 6.30	139.44
23 36 16 00-0025 EA 8" Diameter Inlet, 200 - 700 CFM, Variable Air Volume Box, Dual Duct..... <i>For Filters And Frames, Add</i>	1,619.22 6.30	158.77
23 36 16 00-0026 EA 10" Diameter Inlet, 400 - 1,000 CFM, Variable Air Volume Box, Dual Duct..... <i>For Filters And Frames, Add</i>	1,737.02 6.30	179.33
23 36 16 00-0027 EA 12" Diameter Inlet, 600 - 1,400 CFM, Variable Air Volume Box, Dual Duct..... <i>For Filters And Frames, Add</i>	1,906.22 6.30	200.03
23 36 16 00-0028 EA 14" Diameter Inlet, 800 - 2,700 CFM, Variable Air Volume Box, Dual Duct..... <i>For Filters And Frames, Add</i>	2,144.93 6.30	230.10

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 36 Air Terminal Units**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 16 00-0029 EA 16" Diameter Inlet, 1,000 - 3,500 CFM, Variable Air Volume Box, Dual Duct <i>For Filters And Frames, Add</i>	2,364.61 6.30	276.12
<b>23 36 16 00-0030 Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M)</b> <i>(23 36 16 00-0001)</i>		
23 36 16 00-0031 EA 0 To 200 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-A) <i>For Filters And Frames, Add</i>	687.46 6.30	95.88
23 36 16 00-0032 EA 0 To 300 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-B) <i>For Filters And Frames, Add</i>	747.09 6.30	105.46
23 36 16 00-0033 EA 0 To 400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-C) <i>For Filters And Frames, Add</i>	808.21 6.30	115.05
23 36 16 00-0034 EA 0 To 700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-D) <i>For Filters And Frames, Add</i>	870.93 6.30	124.63
23 36 16 00-0035 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-E) <i>For Filters And Frames, Add</i>	935.34 6.30	134.23
23 36 16 00-0036 EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-F) <i>For Filters And Frames, Add</i>	1,001.57 6.30	143.82
23 36 16 00-0037 EA 0 To 1,100 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-G) <i>For Filters And Frames, Add</i>	1,074.79 6.30	153.40
23 36 16 00-0038 EA 0 To 1,900 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-H) <i>For Filters And Frames, Add</i>	1,145.43 6.30	162.99
23 36 16 00-0039 EA 0 To 2,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-J) <i>For Filters And Frames, Add</i>	1,218.32 6.30	172.57
23 36 16 00-0040 EA 0 To 3,800 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-K) <i>For Filters And Frames, Add</i>	1,293.62 6.30	182.17
23 36 16 00-0041 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-L) <i>For Filters And Frames, Add</i>	1,371.54 6.30	191.75
23 36 16 00-0042 EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M) <i>For Filters And Frames, Add</i>	1,452.19 6.30	201.34
23 36 16 00-0043 EA 0 To 6,700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-N) <i>For Filters And Frames, Add</i>	1,535.81 6.30	210.93
23 36 16 00-0044 EA 0 To 10,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-P) <i>For Filters And Frames, Add</i>	1,615.75 6.30	220.51
23 36 16 00-0045 EA 0 To 15,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-R) <i>For Filters And Frames, Add</i>	1,705.47 6.30	230.10

**23 37 Air Outlets and Inlets**  
*(23 30)*

**23 37 13 Diffusers, Registers, and Grilles**  
*(23 37)*

**23 37 13 13 Diffusers, Registers, and Grilles**  
*(23 37 13)*

**23 37 13 13-0001 Ceiling Diffusers**  
*(23 37 13 13)*

**23 37 13 13-0002 Ceiling Diffusers With Perforated Face**  
*(23 37 13 13-0001)*

Note: Flush mount, aluminum construction, includes damper.

23 37 13 13-0003 EA 6" x 6" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	136.77 -8.68 -6.94 -11.57 144.68	19.94
23 37 13 13-0004 EA 8" x 8" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	149.63 -10.61 -8.49 -14.15 176.83	19.94
23 37 13 13-0005 EA 9" x 9" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	149.63 -10.61 -8.49 -14.15 176.83	19.94
23 37 13 13-0006 EA 10" x 10" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	179.87 -12.70 -10.16 -16.93 211.65	24.54
23 37 13 13-0007 EA 12" x 12" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	179.87 -12.70 -10.16 -16.93 211.65	23.01
23 37 13 13-0008 EA 16" x 16" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	203.45 -16.24 -12.99 -21.65 270.60	23.01
23 37 13 13-0009 EA 18" x 18" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper <i>For Steel Construction, Deduct</i> <i>For Surface Mount, Deduct</i> <i>For Diffuser Without Damper, Deduct</i> <i>For Stainless Steel, Add</i>	235.92 -17.46 -13.97 -23.28 290.95	30.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0010 EA 20" x 20" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper .....	270.83	32.21
<i>For Steel Construction, Deduct</i>	-21.80	
<i>For Surface Mount, Deduct</i>	-17.44	
<i>For Diffuser Without Damper, Deduct</i>	-29.06	
<i>For Stainless Steel, Add</i>	363.30	
23 37 13 13-0011 EA 24" x 24" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper .....	307.71	36.82
<i>For Steel Construction, Deduct</i>	-24.24	
<i>For Surface Mount, Deduct</i>	-19.39	
<i>For Lay-In Mount, Deduct</i>	-19.39	
<i>For Diffuser Without Damper, Deduct</i>	-32.32	
<i>For Stainless Steel, Add</i>	404.03	
<b>23 37 13 13-0012 Ceiling Diffusers With Louver Face <small>(23 37 13 13-0001)</small></b>		
Note: 1 To 4 way adjustable pattern, surface mount aluminum construction.		
23 37 13 13-0013 EA 6" x 6" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	141.06	19.94
<i>For Steel Construction, Deduct</i>	-9.32	
<i>For Flush Mount, Add</i>	9.32	
<i>For Stainless Steel, Add</i>	155.40	
23 37 13 13-0014 EA 8" x 8" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	157.78	19.94
<i>For Steel Construction, Deduct</i>	-11.83	
<i>For Flush Mount, Add</i>	11.83	
<i>For Stainless Steel, Add</i>	197.20	
23 37 13 13-0015 EA 9" x 9" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	157.78	19.94
<i>For Steel Construction, Deduct</i>	-11.83	
<i>For Flush Mount, Add</i>	11.83	
<i>For Stainless Steel, Add</i>	197.20	
23 37 13 13-0016 EA 10" x 10" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	189.52	23.01
<i>For Steel Construction, Deduct</i>	-14.15	
<i>For Flush Mount, Add</i>	14.15	
<i>For Stainless Steel, Add</i>	235.78	
23 37 13 13-0017 EA 12" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	189.52	24.54
<i>For Steel Construction, Deduct</i>	-14.15	
<i>For Flush Mount, Add</i>	14.15	
<i>For Stainless Steel, Add</i>	235.78	
23 37 13 13-0018 EA 24" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	243.51	30.68
<i>For Steel Construction, Deduct</i>	-18.52	
<i>For Flush Mount, Add</i>	18.52	
<i>For Stainless Steel, Add</i>	308.65	
23 37 13 13-0019 EA 14" x 14" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	220.79	30.68
<i>For Steel Construction, Deduct</i>	-15.11	
<i>For Flush Mount, Add</i>	15.11	
<i>For Stainless Steel, Add</i>	251.85	
23 37 13 13-0020 EA 18" x 18" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	274.57	36.82
<i>For Steel Construction, Deduct</i>	-19.39	
<i>For Flush Mount, Add</i>	19.39	
<i>For Stainless Steel, Add</i>	323.10	
23 37 13 13-0021 EA 21" x 21" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	313.98	41.41
<i>For Steel Construction, Deduct</i>	-24.11	
<i>For Flush Mount, Add</i>	24.11	
<i>For Stainless Steel, Add</i>	401.88	
23 37 13 13-0022 EA 24" x 24" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper .....	341.83	81.15
<i>For Steel Construction, Deduct</i>	-26.91	
<i>For Flush Mount, Add</i>	26.91	
<i>For Lay-In Mount, Add</i>	35.88	
<i>For Stainless Steel, Add</i>	448.50	
<b>23 37 13 13-0023 Round Ceiling Diffusers With Fixed Pattern <small>(23 37 13 13-0001)</small></b>		
Note: Aluminum construction.		
23 37 13 13-0024 EA 6" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....	218.03	19.94
<i>For Steel Construction, Deduct</i>	-41.74	
<i>For Stainless Steel, Add</i>	347.83	
23 37 13 13-0025 EA 8" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....	225.16	19.94
<i>For Steel Construction, Deduct</i>	-43.88	
<i>For Stainless Steel, Add</i>	365.65	
23 37 13 13-0026 EA 10" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....	255.74	24.54
<i>For Steel Construction, Deduct</i>	-48.16	
<i>For Stainless Steel, Add</i>	401.33	
23 37 13 13-0027 EA 12" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....	273.58	23.01
<i>For Steel Construction, Deduct</i>	-53.51	
<i>For Stainless Steel, Add</i>	445.93	
23 37 13 13-0028 EA 14" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....	385.14	27.61
<i>For Steel Construction, Deduct</i>	-82.41	
<i>For Stainless Steel, Add</i>	686.73	
23 37 13 13-0029 EA 16" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction .....	405.79	29.15
<i>For Steel Construction, Deduct</i>	-87.22	
<i>For Stainless Steel, Add</i>	726.85	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 37 Air Outlets and Inlets**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0030 EA 18" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Stainless Steel, Add</i>	426.84 -92.04 766.98	30.68
23 37 13 13-0031 EA 20" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Stainless Steel, Add</i>	490.17 -109.40 911.65	30.68
23 37 13 13-0032 EA 24" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Stainless Steel, Add</i>	582.00 -133.18 1,109.85	35.28
23 37 13 13-0033 EA 28" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Stainless Steel, Add</i>	652.69 -152.21 1,268.40	36.82
23 37 13 13-0034 EA 32" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Stainless Steel, Add</i>	776.81 -184.31 1,535.95	41.41
<b>23 37 13 13-0035 Round Ceiling Diffusers With Adjustable Pattern Dropped Style (23 37 13 13-0001)</b> Note: Aluminum construction.		
23 37 13 13-0036 EA 6" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	228.73 -14.98 -7.49 374.58	19.94
23 37 13 13-0037 EA 8" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	247.16 -16.83 -8.41 420.65	19.94
23 37 13 13-0038 EA 10" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	281.51 -18.63 -9.32 465.75	24.54
23 37 13 13-0039 EA 12" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	302.12 -20.69 -10.35 517.28	24.54
23 37 13 13-0040 EA 14" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	431.51 -32.11 -16.05 802.65	27.61
23 37 13 13-0041 EA 16" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	354.56 -34.31 -17.15 857.65	29.15
23 37 13 13-0042 EA 18" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	485.11 -36.51 -18.25 912.65	30.68
23 37 13 13-0043 EA 20" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	559.54 -43.40 -21.70 1,085.08	32.21
23 37 13 13-0044 EA 24" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	631.15 -49.31 -24.65 1,232.73	35.28
23 37 13 13-0045 EA 28" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	759.71 -61.44 -30.72 1,535.95	36.82
23 37 13 13-0046 EA 32" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Steel Construction, Deduct</i> <i>For Flush Mount, Deduct</i> <i>For Stainless Steel, Add</i>	911.97 -74.95 -37.48 1,873.85	41.41
23 37 13 13-0047 EA 36" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction ..... <i>For Stainless Steel, Add</i>	1,008.53 2,089.90	86.37
<b>23 37 13 13-0048 Linear Type Ceiling Diffusers With 2-Way Air Deflection (23 37 13 13-0001)</b>		
23 37 13 13-0049 LF 4" Linear Type Ceiling Diffuser 40-200 CFM/LF, With 2-Way Air Deflection..... <i>For Stainless Steel, Add</i>	182.07 225.08	23.01
23 37 13 13-0050 LF 6-1/4" Linear Type Ceiling Diffuser, 41 - 206 CFM/LF, With 2-Way Air Deflection..... <i>For Stainless Steel, Add</i>	194.30 255.65	23.01
23 37 13 13-0051 LF 9-1/4" Linear Type Ceiling Diffuser, 62 - 312 CFM/LF, With 2-Way Air Deflection..... <i>For Stainless Steel, Add</i>	209.37 293.33	23.01
23 37 13 13-0052 LF 12-1/4" Linear Type Ceiling Diffuser, 131 - 656 CFM/LF, With 2-Way Air Deflection..... <i>For Stainless Steel, Add</i>	224.03 329.98	23.01
<b>23 37 13 13-0053 Wall And Floor Diffusers (23 37 13 13)</b>		
<b>23 37 13 13-0054 Slot Type Linear Diffusers (23 37 13 13-0053)</b> Note: For sidewall sill or ceiling 1/2" 3/4" or 1" slot spacing 1-1/8" border.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0055 LF 1 Slot Linear Diffusers 10 - 70 CFM/LF, Sidewall, Sill, Ceiling .....	61.95	7.67
<i>For 3/4" Border, Add</i>	7.43	
<i>For Floor Mounted Diffusers, Add</i>	8.92	
<i>For Stainless Steel, Add</i>	38.65	
23 37 13 13-0056 LF 2 Slot Linear Diffusers 20 - 140 CFM/LF, Sidewall, Sill, Ceiling.....	74.90	9.20
<i>For 3/4" Border, Add</i>	9.91	
<i>For Floor Mounted Diffusers, Add</i>	11.89	
<i>For Stainless Steel, Add</i>	51.53	
23 37 13 13-0057 LF 3 Slot Linear Diffusers 30 - 210 CFM/LF, Sidewall, Sill, Ceiling.....	102.34	10.74
<i>For 3/4" Border, Add</i>	15.61	
<i>For Floor Mounted Diffusers, Add</i>	18.73	
<i>For Stainless Steel, Add</i>	81.16	
23 37 13 13-0058 LF 4 Slot Linear Diffusers 40 - 280 CFM/LF, Sidewall, Sill, Ceiling.....	133.64	10.74
<i>For 3/4" Border, Add</i>	22.30	
<i>For Floor Mounted Diffusers, Add</i>	26.75	
<i>For Stainless Steel, Add</i>	115.93	
23 37 13 13-0059 LF 5 Slot Linear Diffusers 50 - 350 CFM/LF, Sidewall, Sill, Ceiling.....	166.60	12.28
<i>For 3/4" Border, Add</i>	28.99	
<i>For Floor Mounted Diffusers, Add</i>	34.78	
<i>For Stainless Steel, Add</i>	150.72	
23 37 13 13-0060 LF 6 Slot Linear Diffusers 60 - 420 CFM/LF, Sidewall, Sill, Ceiling.....	195.01	15.34
<i>For 3/4" Border, Add</i>	34.19	
<i>For Floor Mounted Diffusers, Add</i>	41.03	
<i>For Stainless Steel, Add</i>	177.78	
<b>23 37 13 13-0061 Linear Bar Grilles And Registers</b> <small>(23 37 13 13-0053)</small>		
Note: For sidewall sill or ceiling or 15 degree deflection 1/2" bar spacing 1" border aluminum construction.		
23 37 13 13-0062 LF 2" Wide Linear Bar Grilles/Registers 30 - 70 CFM/LF, Sidewall, Sill, Ceiling.....	178.95	9.20
<i>For Floor Mount, Add</i>	14.37	
<i>For Opposed Blade Damper, Add</i>	28.74	
<i>For Stainless Steel, Add</i>	186.80	
23 37 13 13-0063 LF 3" Wide Linear Bar Grilles/Registers 55 - 143 CFM/LF, Sidewall, Sill, Ceiling.....	213.32	10.74
<i>For Floor Mount, Add</i>	17.34	
<i>For Opposed Blade Damper, Add</i>	34.68	
<i>For Stainless Steel, Add</i>	225.43	
23 37 13 13-0064 LF 4" Wide Linear Bar Grilles/Registers 80 - 208 CFM/LF, Sidewall, Sill, Ceiling.....	232.74	10.74
<i>For Floor Mount, Add</i>	18.83	
<i>For Opposed Blade Damper, Add</i>	37.66	
<i>For Stainless Steel, Add</i>	244.76	
23 37 13 13-0065 LF 6" Wide Linear Bar Grilles/Registers 125 - 325 CFM/LF, Sidewall, Sill, Ceiling.....	286.17	15.34
<i>For Floor Mount, Add</i>	22.79	
<i>For Opposed Blade Damper, Add</i>	45.58	
<i>For Stainless Steel, Add</i>	296.28	
23 37 13 13-0066 LF 9" Wide Linear Bar Grilles/Registers 225 - 450 CFM/LF, Sidewall, Sill, Ceiling.....	395.32	19.94
<i>For Floor Mount, Add</i>	31.71	
<i>For Opposed Blade Damper, Add</i>	63.42	
<i>For Stainless Steel, Add</i>	412.23	
23 37 13 13-0067 LF 12" Wide Linear Bar Grilles/Registers 225 - 495 CFM/LF, Sidewall, Sill, Ceiling.....	456.90	23.01
<i>For Floor Mount, Add</i>	36.17	
<i>For Opposed Blade Damper, Add</i>	72.34	
<i>For Stainless Steel, Add</i>	470.20	
<b>23 37 13 13-0068 Return/Exhaust Registers And Grilles</b> <small>(23 37 13 13)</small>		
<b>23 37 13 13-0069 Return/Exhaust Registers With Frame</b> <small>(23 37 13 13-0068)</small>		
Note: Single deflection with opposed blade damper aluminum construction wall or ceiling mount.		
23 37 13 13-0070 EA 8" x 4" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	127.38	12.28
<i>For Steel Construction, Deduct</i>	-15.95	
<i>For Grilles (No Damper), Deduct</i>	-31.91	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	7.98	
<i>For Cube Core Lay In, Add</i>	15.95	
<i>For Stainless Steel, Add</i>	199.43	
23 37 13 13-0071 EA 8" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	144.72	12.28
<i>For Steel Construction, Deduct</i>	-19.42	
<i>For Grilles (No Damper), Deduct</i>	-38.84	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	9.71	
<i>For Cube Core Lay In, Add</i>	19.42	
<i>For Stainless Steel, Add</i>	242.78	
23 37 13 13-0072 EA 10" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	162.75	13.80
<i>For Steel Construction, Deduct</i>	-21.50	
<i>For Grilles (No Damper), Deduct</i>	-43.01	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	10.75	
<i>For Cube Core Lay In, Add</i>	21.50	
<i>For Stainless Steel, Add</i>	268.80	
23 37 13 13-0073 EA 10" x 10" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	171.74	15.34
<i>For Steel Construction, Deduct</i>	-21.50	
<i>For Grilles (No Damper), Deduct</i>	-43.01	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	10.75	
<i>For Cube Core Lay In, Add</i>	21.50	
<i>For Stainless Steel, Add</i>	268.80	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 37 Air Outlets and Inlets**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13	13-0074	EA	12" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	164.80	15.34
			<i>For Steel Construction, Deduct</i>	-20.12	
			<i>For Grilles (No Damper), Deduct</i>	-40.23	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	10.06	
			<i>For Cube Core Lay In, Add</i>	20.12	
			<i>For Stainless Steel, Add</i>	251.45	
23 37 13	13-0075	EA	12" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	210.69	19.94
			<i>For Steel Construction, Deduct</i>	-26.36	
			<i>For Grilles (No Damper), Deduct</i>	-52.72	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	13.18	
			<i>For Cube Core Lay In, Add</i>	26.36	
			<i>For Stainless Steel, Add</i>	329.48	
23 37 13	13-0076	EA	16" x 16" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	252.57	23.01
			<i>For Steel Construction, Deduct</i>	-31.47	
			<i>For Grilles (No Damper), Deduct</i>	-62.94	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	15.74	
			<i>For Cube Core Lay In, Add</i>	31.47	
			<i>For Stainless Steel, Add</i>	393.40	
23 37 13	13-0077	EA	18" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	308.13	27.61
			<i>For Steel Construction, Deduct</i>	-39.54	
			<i>For Grilles (No Damper), Deduct</i>	-79.07	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	19.77	
			<i>For Cube Core Lay In, Add</i>	39.54	
			<i>For Stainless Steel, Add</i>	494.20	
23 37 13	13-0078	EA	20" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	359.45	30.68
			<i>For Steel Construction, Deduct</i>	-47.88	
			<i>For Grilles (No Damper), Deduct</i>	-95.76	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	23.94	
			<i>For Cube Core Lay In, Add</i>	47.88	
			<i>For Stainless Steel, Add</i>	598.50	
23 37 13	13-0079	EA	24" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	325.74	30.68
			<i>For Steel Construction, Deduct</i>	-40.05	
			<i>For Grilles (No Damper), Deduct</i>	-80.09	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	20.02	
			<i>For Cube Core Lay In, Add</i>	40.05	
			<i>For Stainless Steel, Add</i>	500.58	
23 37 13	13-0080	EA	24" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	368.28	30.68
			<i>For Steel Construction, Deduct</i>	-48.55	
			<i>For Grilles (No Damper), Deduct</i>	-97.11	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	24.28	
			<i>For Cube Core Lay In, Add</i>	48.55	
			<i>For Stainless Steel, Add</i>	606.93	
23 37 13	13-0081	EA	24" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	389.68	35.28
			<i>For Steel Construction, Deduct</i>	-50.32	
			<i>For Grilles (No Damper), Deduct</i>	-100.65	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	25.16	
			<i>For Cube Core Lay In, Add</i>	50.32	
			<i>For Stainless Steel, Add</i>	629.05	
23 37 13	13-0082	EA	30" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	412.75	36.82
			<i>For Steel Construction, Deduct</i>	-53.48	
			<i>For Grilles (No Damper), Deduct</i>	-106.97	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	26.74	
			<i>For Cube Core Lay In, Add</i>	53.48	
			<i>For Stainless Steel, Add</i>	668.55	
23 37 13	13-0083	EA	30" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	474.56	41.41
			<i>For Steel Construction, Deduct</i>	-62.43	
			<i>For Grilles (No Damper), Deduct</i>	-124.85	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	31.21	
			<i>For Cube Core Lay In, Add</i>	62.43	
			<i>For Stainless Steel, Add</i>	780.33	
23 37 13	13-0084	EA	30" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	535.02	49.09
			<i>For Steel Construction, Deduct</i>	-67.56	
			<i>For Grilles (No Damper), Deduct</i>	-135.12	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	33.78	
			<i>For Cube Core Lay In, Add</i>	67.56	
			<i>For Stainless Steel, Add</i>	844.48	
23 37 13	13-0085	EA	30" x 30" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	681.87	49.09
			<i>For Steel Construction, Deduct</i>	-96.93	
			<i>For Grilles (No Damper), Deduct</i>	-193.86	
			<i>For Removable Core, Add</i>	35.00	
			<i>For Cube Core With Frame, Add</i>	48.46	
			<i>For Cube Core Lay In, Add</i>	96.93	
			<i>For Stainless Steel, Add</i>	1,211.60	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0086 EA 36" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	577.31	53.69
For Steel Construction, Deduct	-72.98	
For Grilles (No Damper), Deduct	-145.96	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	36.49	
For Cube Core Lay In, Add	72.98	
For Stainless Steel, Add	912.28	
23 37 13 13-0087 EA 36" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	563.35	52.15
For Steel Construction, Deduct	-70.19	
For Grilles (No Damper), Deduct	-140.38	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	35.10	
For Cube Core Lay In, Add	70.19	
For Stainless Steel, Add	877.38	
23 37 13 13-0088 EA 36" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	638.82	58.30
For Steel Construction, Deduct	-81.74	
For Grilles (No Damper), Deduct	-163.49	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	40.87	
For Cube Core Lay In, Add	81.74	
For Stainless Steel, Add	1,021.80	
23 37 13 13-0089 EA 36" x 36" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	852.55	62.89
For Steel Construction, Deduct	-120.31	
For Grilles (No Damper), Deduct	-240.61	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	60.15	
For Cube Core Lay In, Add	120.31	
For Stainless Steel, Add	1,503.83	
23 37 13 13-0090 EA 24" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	384.96	35.43
For Steel Construction, Deduct	-48.68	
For Grilles (No Damper), Deduct	-97.35	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	24.34	
For Cube Core Lay In, Add	48.68	
For Stainless Steel, Add	608.45	
23 37 13 13-0091 EA 32" x 40" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	656.98	53.10
For Steel Construction, Deduct	-88.92	
For Grilles (No Damper), Deduct	-177.83	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	44.46	
For Cube Core Lay In, Add	88.92	
For Stainless Steel, Add	1,111.45	
23 37 13 13-0092 EA 48" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	762.08	62.89
For Steel Construction, Deduct	-102.03	
For Grilles (No Damper), Deduct	-204.06	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	51.02	
For Cube Core Lay In, Add	102.03	
For Stainless Steel, Add	1,275.38	
<b>23 37 13 13-0093 Return/Exhaust Registers Removable-Reversible</b> <small>(23 37 13 13-0068)</small>		
Note: Double deflection core and opposed blade damper radiused frame with boarder aluminum construction.		
23 37 13 13-0094 EA 8" x 4" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....	118.36	12.28
For Steel Construction, Deduct	-7.08	
For Flat Frame, Deduct	-0.71	
For Grilles (No Damper), Deduct	-14.15	
For Stainless Steel, Add	176.88	
23 37 13 13-0095 EA 8" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....	118.36	12.28
For Steel Construction, Deduct	-7.08	
For Flat Frame, Deduct	-0.71	
For Grilles (No Damper), Deduct	-14.15	
For Stainless Steel, Add	176.88	
23 37 13 13-0096 EA 10" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....	144.71	13.80
For Steel Construction, Deduct	-8.95	
For Flat Frame, Deduct	-0.89	
For Grilles (No Damper), Deduct	-17.90	
For Stainless Steel, Add	223.70	
23 37 13 13-0097 EA 10" x 10" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....	166.19	16.87
For Steel Construction, Deduct	-10.20	
For Flat Frame, Deduct	-1.02	
For Grilles (No Damper), Deduct	-20.39	
For Stainless Steel, Add	254.93	
23 37 13 13-0098 EA 12" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....	164.11	15.34
For Steel Construction, Deduct	-9.99	
For Flat Frame, Deduct	-1.00	
For Grilles (No Damper), Deduct	-19.98	
For Stainless Steel, Add	249.73	
23 37 13 13-0099 EA 12" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling .....	212.08	19.94
For Steel Construction, Deduct	-13.32	
For Flat Frame, Deduct	-1.33	
For Grilles (No Damper), Deduct	-26.64	
For Stainless Steel, Add	332.95	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 37 Air Outlets and Inlets**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0100	EA	16" x 16" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	335.91	24.54
		<i>For Steel Construction, Deduct</i>	-24.07	
		<i>For Flat Frame, Deduct</i>	-2.41	
		<i>For Grilles (No Damper), Deduct</i>	-48.14	
		<i>For Stainless Steel, Add</i>	601.75	
23 37 13 13-0101	EA	18" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	403.87	27.61
		<i>For Steel Construction, Deduct</i>	-29.34	
		<i>For Flat Frame, Deduct</i>	-2.93	
		<i>For Grilles (No Damper), Deduct</i>	-58.68	
		<i>For Stainless Steel, Add</i>	733.55	
23 37 13 13-0102	EA	20" x 20" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	455.08	30.68
		<i>For Steel Construction, Deduct</i>	-33.50	
		<i>For Flat Frame, Deduct</i>	-3.35	
		<i>For Grilles (No Damper), Deduct</i>	-67.01	
		<i>For Stainless Steel, Add</i>	837.58	
23 37 13 13-0103	EA	24" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	383.55	30.68
		<i>For Steel Construction, Deduct</i>	-25.80	
		<i>For Flat Frame, Deduct</i>	-2.58	
		<i>For Grilles (No Damper), Deduct</i>	-51.61	
		<i>For Stainless Steel, Add</i>	645.10	
23 37 13 13-0104	EA	24" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	508.41	32.21
		<i>For Steel Construction, Deduct</i>	-38.29	
		<i>For Flat Frame, Deduct</i>	-3.83	
		<i>For Grilles (No Damper), Deduct</i>	-76.58	
		<i>For Stainless Steel, Add</i>	957.25	
23 37 13 13-0105	EA	24" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	591.71	35.28
		<i>For Steel Construction, Deduct</i>	-45.37	
		<i>For Flat Frame, Deduct</i>	-4.54	
		<i>For Grilles (No Damper), Deduct</i>	-90.73	
		<i>For Stainless Steel, Add</i>	1,134.13	
23 37 13 13-0106	EA	30" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	461.64	36.82
		<i>For Steel Construction, Deduct</i>	-31.63	
		<i>For Flat Frame, Deduct</i>	-3.16	
		<i>For Grilles (No Damper), Deduct</i>	-63.26	
		<i>For Stainless Steel, Add</i>	790.78	
23 37 13 13-0107	EA	30" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	628.56	41.41
		<i>For Steel Construction, Deduct</i>	-46.61	
		<i>For Flat Frame, Deduct</i>	-4.66	
		<i>For Grilles (No Damper), Deduct</i>	-93.23	
		<i>For Stainless Steel, Add</i>	1,165.33	
23 37 13 13-0108	EA	30" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	757.01	49.09
		<i>For Steel Construction, Deduct</i>	-55.98	
		<i>For Flat Frame, Deduct</i>	-5.60	
		<i>For Grilles (No Damper), Deduct</i>	-111.96	
		<i>For Stainless Steel, Add</i>	1,399.45	
23 37 13 13-0109	EA	30" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	862.10	49.09
		<i>For Steel Construction, Deduct</i>	-66.49	
		<i>For Flat Frame, Deduct</i>	-6.65	
		<i>For Grilles (No Damper), Deduct</i>	-132.97	
		<i>For Stainless Steel, Add</i>	1,662.18	
23 37 13 13-0110	EA	36" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	601.54	52.15
		<i>For Steel Construction, Deduct</i>	-38.91	
		<i>For Flat Frame, Deduct</i>	-3.89	
		<i>For Grilles (No Damper), Deduct</i>	-77.83	
		<i>For Stainless Steel, Add</i>	972.85	
23 37 13 13-0111	EA	36" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	801.31	52.15
		<i>For Steel Construction, Deduct</i>	-58.89	
		<i>For Flat Frame, Deduct</i>	-5.89	
		<i>For Grilles (No Damper), Deduct</i>	-117.78	
		<i>For Stainless Steel, Add</i>	1,472.28	
23 37 13 13-0112	EA	36" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	925.14	58.30
		<i>For Steel Construction, Deduct</i>	-69.50	
		<i>For Flat Frame, Deduct</i>	-6.95	
		<i>For Grilles (No Damper), Deduct</i>	-139.01	
		<i>For Stainless Steel, Add</i>	1,737.60	
23 37 13 13-0113	EA	36" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	1,078.20	62.89
		<i>For Steel Construction, Deduct</i>	-82.72	
		<i>For Flat Frame, Deduct</i>	-8.27	
		<i>For Grilles (No Damper), Deduct</i>	-165.44	
		<i>For Stainless Steel, Add</i>	2,067.95	
23 37 13 13-0114	EA	36" x 36" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	1,136.47	62.89
		<i>For Steel Construction, Deduct</i>	-88.55	
		<i>For Flat Frame, Deduct</i>	-8.85	
		<i>For Grilles (No Damper), Deduct</i>	-177.09	
		<i>For Stainless Steel, Add</i>	2,213.63	
23 37 13 13-0115		<b>Aluminum Eggcrate Ceiling Return Air And Exhaust Grilles</b> <small>(23 37 13 13-0068)</small>		
23 37 13 13-0116	EA	6" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille	68.32	14.99
23 37 13 13-0117	EA	8" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille	68.32	14.99
23 37 13 13-0118	EA	8" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille	73.56	14.99
23 37 13 13-0119	EA	8" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille	75.66	14.99
23 37 13 13-0120	EA	10" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille	73.56	14.99
23 37 13 13-0121	EA	10" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille	75.66	14.99
23 37 13 13-0122	EA	10" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille	91.89	19.65
23 37 13 13-0123	EA	10" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille	93.99	19.65



MINOR	TOTAL DIRECT	DEMOLITION		
CSI UOM DESCRIPTION	UNIT COST	UNIT COST		
23 37 13 13-0124	EA 12" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	89.80	19.65	
23 37 13 13-0125	EA 12" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	93.99	19.65	
23 37 13 13-0126	EA 12" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	96.09	19.65	
23 37 13 13-0127	EA 12" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	98.18	19.65	
23 37 13 13-0128	EA 14" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	95.04	19.65	
23 37 13 13-0129	EA 14" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	99.23	19.65	
23 37 13 13-0130	EA 14" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	101.33	19.65	
23 37 13 13-0131	EA 14" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	110.76	19.65	
23 37 13 13-0132	EA 16" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	99.23	19.65	
23 37 13 13-0133	EA 16" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	106.57	19.65	
23 37 13 13-0134	EA 16" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	110.76	19.65	
23 37 13 13-0135	EA 16" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	144.28	28.98	
23 37 13 13-0136	EA 16" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	146.38	28.98	
23 37 13 13-0137	EA 18" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	142.18	28.98	
23 37 13 13-0138	EA 18" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	173.09	33.66	
23 37 13 13-0139	EA 20" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	140.09	28.98	
23 37 13 13-0140	EA 20" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	183.58	33.66	
23 37 13 13-0141	EA 22" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	97.13	19.65	
23 37 13 13-0142	EA 22" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	142.18	28.98	
23 37 13 13-0143	EA 22" x 22" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	206.10	38.33	
23 37 13 13-0144	EA 24" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	140.09	28.98	
23 37 13 13-0145	EA 24" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	144.28	28.98	
23 37 13 13-0146	EA 24" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	166.81	33.66	
	<i>For Lay-In Installation, Deduct</i>	-71.10		
23 37 13 13-0147	EA 24" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	173.09	33.66	
23 37 13 13-0148	EA 24" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	193.52	38.33	
23 37 13 13-0149	EA 24" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	199.81	38.33	
23 37 13 13-0150	EA 24" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	207.15	38.33	
23 37 13 13-0151	EA 24" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	220.78	38.33	
	<i>For Lay-In Installation, Deduct</i>	-81.40		
23 37 13 13-0152	EA 30" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	169.95	33.66	
23 37 13 13-0153	EA 48" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	268.77	42.00	
23 37 13 13-0154	EA 48" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	449.04	51.33	
	<i>For Lay-In Installation, Deduct</i>	-117.14		

**23 37 13 13-0155 Supply Registers and Grilles** (23 37 13 13)

**23 37 13 13-0156 Adjustable Curved Blade Register** (23 37 13 13-0155)

Note: Ceiling mount aluminum construction four way pattern flush frame.

23 37 13 13-0157	EA 6" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern .....	108.17	12.28	
	<i>For Steel Construction, Deduct</i>	-9.10		
	<i>For Lay In Frame, Deduct</i>	-15.16		
	<i>For Three Way Pattern, Deduct</i>	-6.06		
	<i>For Two Way Pattern, Deduct</i>	-4.85		
	<i>For One Way Pattern, Deduct</i>	-4.85		
	<i>For Grille (No Damper), Deduct</i>	-9.10		
	<i>For Stainless Steel, Add</i>	151.60		
23 37 13 13-0158	EA 8" x 8" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern .....	111.74	12.28	
	<i>For Steel Construction, Deduct</i>	-9.63		
	<i>For Lay In Frame, Deduct</i>	-16.05		
	<i>For Three Way Pattern, Deduct</i>	-6.42		
	<i>For Two Way Pattern, Deduct</i>	-5.14		
	<i>For One Way Pattern, Deduct</i>	-5.14		
	<i>For Grille (No Damper), Deduct</i>	-9.63		
	<i>For Stainless Steel, Add</i>	160.53		
23 37 13 13-0159	EA 12" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern .....	125.01	16.87	
	<i>For Steel Construction, Deduct</i>	-9.10		
	<i>For Lay In Frame, Deduct</i>	-15.16		
	<i>For Three Way Pattern, Deduct</i>	-6.06		
	<i>For Two Way Pattern, Deduct</i>	-4.85		
	<i>For One Way Pattern, Deduct</i>	-4.85		
	<i>For Grille (No Damper), Deduct</i>	-9.10		
	<i>For Stainless Steel, Add</i>	151.60		
23 37 13 13-0160	EA 10" x 10" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern .....	138.10	15.34	
	<i>For Steel Construction, Deduct</i>	-11.06		
	<i>For Lay In Frame, Deduct</i>	-18.43		
	<i>For Three Way Pattern, Deduct</i>	-7.37		
	<i>For Two Way Pattern, Deduct</i>	-5.90		
	<i>For One Way Pattern, Deduct</i>	-5.90		
	<i>For Grille (No Damper), Deduct</i>	-11.06		
	<i>For Stainless Steel, Add</i>	184.33		
23 37 13 13-0161	EA 12" x 12" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern .....	166.21	19.94	
	<i>For Steel Construction, Deduct</i>	-13.20		
	<i>For Lay In Frame, Deduct</i>	-22.00		
	<i>For Three Way Pattern, Deduct</i>	-8.80		
	<i>For Two Way Pattern, Deduct</i>	-7.04		
	<i>For One Way Pattern, Deduct</i>	-7.04		
	<i>For Grille (No Damper), Deduct</i>	-13.20		
	<i>For Stainless Steel, Add</i>	219.98		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 37 Air Outlets and Inlets**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13	13-0162	EA	14" x 14" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... <i>For Steel Construction, Deduct</i> <i>For Lay In Frame, Deduct</i> <i>For Three Way Pattern, Deduct</i> <i>For Two Way Pattern, Deduct</i> <i>For One Way Pattern, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	204.61 -16.41 -27.35 -10.94 -8.75 -8.75 -16.41 273.50	23.01
23 37 13	13-0163	EA	16" x 16" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... <i>For Steel Construction, Deduct</i> <i>For Lay In Frame, Deduct</i> <i>For Three Way Pattern, Deduct</i> <i>For Two Way Pattern, Deduct</i> <i>For One Way Pattern, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	204.61 -16.41 -27.35 -10.94 -8.75 -8.75 -16.41 273.50	23.01
23 37 13	13-0164	EA	18" x 18" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... <i>For Steel Construction, Deduct</i> <i>For Lay In Frame, Deduct</i> <i>For Three Way Pattern, Deduct</i> <i>For Two Way Pattern, Deduct</i> <i>For One Way Pattern, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	252.72 -19.98 -33.30 -13.32 -10.65 -10.65 -19.98 332.95	30.68
23 37 13	13-0165	EA	24" x 24" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... <i>For Steel Construction, Deduct</i> <i>For Lay In Frame, Deduct</i> <i>For Three Way Pattern, Deduct</i> <i>For Two Way Pattern, Deduct</i> <i>For One Way Pattern, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	326.47 -30.14 -50.24 -20.10 -16.08 -16.08 -30.14 502.40	32.21
23 37 13	13-0166	EA	30" x 30" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern ..... <i>For Steel Construction, Deduct</i> <i>For Lay In Frame, Deduct</i> <i>For Three Way Pattern, Deduct</i> <i>For Two Way Pattern, Deduct</i> <i>For One Way Pattern, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	515.97 -57.88 -96.47 -38.59 -30.87 -30.87 -57.88 964.68	65.04
23 37 13	13-0167		<b>Removable-Reversible Core Registers</b> <small>(23 37 13 13-0155)</small> Note: Double deflection radiused frame aluminum construction.		
23 37 13	13-0168	EA	6" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame ..... <i>For Steel Construction, Deduct</i> <i>For Flat Frame, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	123.63 -7.61 -7.61 -22.83 190.25	12.28
23 37 13	13-0169	EA	8" x 8" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame ..... <i>For Steel Construction, Deduct</i> <i>For Flat Frame, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	154.55 -10.70 -10.70 -32.11 267.55	12.28
23 37 13	13-0170	EA	12" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame ..... <i>For Steel Construction, Deduct</i> <i>For Flat Frame, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	197.55 -13.32 -13.32 -39.95 332.95	16.87
23 37 13	13-0171	EA	10" x 10" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame ..... <i>For Steel Construction, Deduct</i> <i>For Flat Frame, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	199.93 -13.56 -13.56 -40.67 338.90	16.87
23 37 13	13-0172	EA	12" x 12" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame ..... <i>For Steel Construction, Deduct</i> <i>For Flat Frame, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	254.21 -17.60 -17.60 -52.80 439.98	19.94
23 37 13	13-0173	EA	14" x 14" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame ..... <i>For Steel Construction, Deduct</i> <i>For Flat Frame, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	359.19 -26.40 -26.40 -79.19 659.95	24.54
23 37 13	13-0174	EA	16" x 16" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame ..... <i>For Steel Construction, Deduct</i> <i>For Flat Frame, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	402.00 -30.68 -30.68 -92.04 766.98	23.01
23 37 13	13-0175	EA	18" x 18" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame ..... <i>For Steel Construction, Deduct</i> <i>For Flat Frame, Deduct</i> <i>For Grille (No Damper), Deduct</i> <i>For Stainless Steel, Add</i>	485.79 -36.63 -36.63 -109.88 915.63	30.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0176 EA 24" x 24" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame .....	608.29	30.68
For Steel Construction, Deduct	-48.28	
For Flat Frame, Deduct	-48.28	
For Grille (No Damper), Deduct	-144.83	
For Stainless Steel, Add	1,206.95	
<b>23 37 13 13-0177 Adjustable Shutter Blade Registers</b> <small>(23 37 13 13-0155)</small>		
Note: Double deflection flat frame aluminum construction.		
23 37 13 13-0178 EA 6" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame .....	186.26	12.28
For Steel Construction, Deduct	-13.87	
For Single Deflection, Deduct	-27.75	
For Grille (No Damper), Deduct	-20.81	
For Stainless Steel, Add	346.83	
23 37 13 13-0179 EA 8" x 8" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame .....	214.01	12.28
For Steel Construction, Deduct	-16.65	
For Single Deflection, Deduct	-33.30	
For Grille (No Damper), Deduct	-24.97	
For Stainless Steel, Add	416.20	
23 37 13 13-0180 EA 12" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame .....	230.85	16.87
For Steel Construction, Deduct	-16.65	
For Single Deflection, Deduct	-33.30	
For Grille (No Damper), Deduct	-24.97	
For Stainless Steel, Add	416.20	
23 37 13 13-0181 EA 10" x 10" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame .....	238.77	15.34
For Steel Construction, Deduct	-17.44	
For Single Deflection, Deduct	-34.88	
For Grille (No Damper), Deduct	-26.16	
For Stainless Steel, Add	436.00	
23 37 13 13-0182 EA 12" x 12" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame .....	292.26	19.94
For Steel Construction, Deduct	-21.40	
For Single Deflection, Deduct	-42.81	
For Grille (No Damper), Deduct	-32.11	
For Stainless Steel, Add	535.10	
23 37 13 13-0183 EA 14" x 14" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame .....	388.53	23.01
For Steel Construction, Deduct	-29.33	
For Single Deflection, Deduct	-58.66	
For Grille (No Damper), Deduct	-44.00	
For Stainless Steel, Add	733.30	
23 37 13 13-0184 EA 16" x 16" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame .....	455.91	24.54
For Steel Construction, Deduct	-36.07	
For Single Deflection, Deduct	-72.14	
For Grille (No Damper), Deduct	-54.11	
For Stainless Steel, Add	901.75	
23 37 13 13-0185 EA 18" x 18" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame .....	563.48	30.68
For Steel Construction, Deduct	-44.39	
For Single Deflection, Deduct	-88.79	
For Grille (No Damper), Deduct	-66.59	
For Stainless Steel, Add	1,109.85	
23 37 13 13-0186 EA 24" x 24" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame .....	771.60	32.21
For Steel Construction, Deduct	-64.61	
For Single Deflection, Deduct	-129.22	
For Grille (No Damper), Deduct	-96.91	
For Stainless Steel, Add	1,615.23	
<b>23 37 13 13-0187 Air Conditioning And Ventilation</b> <small>(23 37 13 13-0155)</small>		
23 37 13 13-0188 EA 10" x 16" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	115.16	32.21
For Stainless Steel, Add	126.98	
23 37 13 13-0189 EA 18" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	197.46	47.94
For Stainless Steel, Add	253.95	
23 37 13 13-0190 EA 30" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	303.54	67.11
For Stainless Steel, Add	423.28	
23 37 13 13-0191 EA 48" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	742.80	92.04
For Stainless Steel, Add	1,396.78	
<b>23 37 13 13-0192 Square Wall Return Air And Exhaust Grilles</b> <small>(23 37 13 13-0155)</small>		
Note: Egg crate design aluminum construction.		
23 37 13 13-0193 EA 8" x 8" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	107.32	38.40
23 37 13 13-0194 EA 12" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	116.72	38.40
23 37 13 13-0195 EA 18" x 18" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	173.89	57.60
23 37 13 13-0196 EA 24" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	220.85	57.60
23 37 13 13-0197 EA 28" x 28" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	364.91	76.80
23 37 13 13-0198 EA 36" x 36" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction .....	648.62	76.70
<b>23 37 13 13-0199 Rectangular Four-Way Adjustable Deflection Wall Supply Grilles</b> <small>(23 37 13 13-0155)</small>		
Note: Aluminum construction.		
23 37 13 13-0200 EA 12" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....	274.64	27.64
23 37 13 13-0201 EA 14" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....	310.31	27.64
23 37 13 13-0202 EA 18" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....	372.57	30.72
23 37 13 13-0203 EA 24" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....	435.96	30.72
23 37 13 13-0204 EA 36" x 20" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction .....	567.09	96.00

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 30 HVAC Air Distribution**

**23 37 Air Outlets and Inlets**



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
23 37 13 13-0205		<b>Square Ceiling Return Air And Exhaust Grilles</b> (23 37 13 13-0155) Note: Egg crate design, plastic construction.		
23 37 13 13-0206	EA	24" x 24" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	56.01	18.38
23 37 13 13-0207	EA	24" x 48" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	79.04	18.53
23 37 13 13-0208		<b>Door Grilles Sight Proof Inverted Vee Cross Section</b> (23 37 13 13-0155) Note: Painted steel louvers and frame.		
23 37 13 13-0209	EA	12" x 6" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....	155.55	27.64
23 37 13 13-0210	EA	12" x 12" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....	199.33	27.64
23 37 13 13-0211	EA	18" x 18" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....	242.93	29.18
23 37 13 13-0212	EA	24" x 24" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....	326.16	34.86
23 37 13 13-0213	EA	24" x 30" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel .....	363.77	64.04
23 37 13 13-0214		<b>Stainless Steel Devices</b> (23 37 13 13-0155)		
23 37 13 13-0215		<b>304 Stainless Steel, Louvered Partition/Door Grilles</b> (23 37 13 13-0214)		
23 37 13 13-0216	SF	Up To 4 SF, 304 Stainless Steel, Louvered Partition/Door Grille.....	248.62	23.96
		<i>For 316 Stainless Steel, Add</i>	41.74	
23 37 13 13-0217	SF	>4 SF, 304 Stainless Steel, Louvered Partition/Door Grille .....	210.54	23.96
		<i>For 316 Stainless Steel, Add</i>	34.12	
23 37 13 13-0218		<b>304 Stainless Steel, Single Deflection Supply Grilles</b> (23 37 13 13-0214)		
23 37 13 13-0219	SF	Up To 4 SF, 304 Stainless Steel, Single Deflection Supply Grille.....	189.44	23.96
		<i>For 316 Stainless Steel, Add</i>	29.90	
23 37 13 13-0220	SF	>4 SF, 304 Stainless Steel, Single Deflection Supply Grille .....	161.75	23.96
		<i>For 316 Stainless Steel, Add</i>	24.36	
23 37 13 13-0221		<b>304 Stainless Steel, Double Deflection Supply Grilles</b> (23 37 13 13-0214)		
23 37 13 13-0222	SF	Up To 4 SF, 304 Stainless Steel, Double Deflection Supply Grille .....	275.09	23.96
		<i>For 316 Stainless Steel, Add</i>	47.03	
23 37 13 13-0223	SF	>4 SF, 304 Stainless Steel, Double Deflection Supply Grille .....	235.12	23.96
		<i>For 316 Stainless Steel, Add</i>	39.04	
23 37 13 13-0224		<b>304 Stainless Steel Return Grilles</b> (23 37 13 13-0214)		
23 37 13 13-0225	SF	Up To 4 SF, 304 Stainless Steel Return Grille.....	189.44	23.96
		<i>For 316 Stainless Steel, Add</i>	29.90	
23 37 13 13-0226	SF	>4 SF, 304 Stainless Steel Return Grille .....	161.75	23.96
		<i>For 316 Stainless Steel, Add</i>	24.36	
23 37 13 13-0227		<b>304 Stainless Steel, Louvered Supply/Return Grilles</b> (23 37 13 13-0214)		
23 37 13 13-0228	SF	Up To 4 SF, 304 Stainless Steel, Louvered Supply/Return Grille .....	189.44	23.96
		<i>For 316 Stainless Steel, Add</i>	29.90	
23 37 13 13-0229	SF	>4 SF, 304 Stainless Steel, Louvered Supply/Return Grille.....	161.75	23.96
		<i>For 316 Stainless Steel, Add</i>	24.36	
23 37 13 13-0230		<b>304 Stainless Steel, Perforated Return Grilles</b> (23 37 13 13-0214)		
23 37 13 13-0231	SF	Up To 4 SF, 304 Stainless Steel, Perforated Return Grille .....	189.44	23.96
		<i>For 316 Stainless Steel, Add</i>	29.90	
23 37 13 13-0232	SF	>4 SF, 304 Stainless Steel, Perforated Return Grille.....	154.14	23.96
		<i>For 316 Stainless Steel, Add</i>	22.84	
23 37 13 13-0233		<b>304 Stainless Steel, Perforated Supply Grilles</b> (23 37 13 13-0214)		
23 37 13 13-0234	SF	Up To 4 SF, 304 Stainless Steel, Perforated Supply Grille.....	228.37	23.96
		<i>For 316 Stainless Steel, Add</i>	37.69	
23 37 13 13-0235	SF	>4 SF, 304 Stainless Steel, Perforated Supply Grille.....	158.19	23.96
		<i>For 316 Stainless Steel, Add</i>	23.65	
23 37 13 13-0236		<b>304 Stainless Steel, Door Grilles</b> (23 37 13 13-0214)		
23 37 13 13-0237	SF	Up To 4 SF, 304 Stainless Steel, Door Grille.....	338.94	23.96
		<i>For 316 Stainless Steel, Add</i>	59.80	
23 37 13 13-0238	SF	>4 SF, 304 Stainless Steel, Door Grille .....	283.58	23.96
		<i>For 316 Stainless Steel, Add</i>	48.73	
23 37 13 13-0239		<b>304 Stainless Steel, Linear Bar Grilles</b> (23 37 13 13-0214)		
23 37 13 13-0240	SF	Up To 4 SF, 304 Stainless Steel, Linear Bar Grille .....	431.86	23.96
		<i>For 316 Stainless Steel, Add</i>	78.38	
23 37 13 13-0241	SF	>4 SF, 304 Stainless Steel, Linear Bar Grille.....	370.43	23.96
		<i>For 316 Stainless Steel, Add</i>	66.10	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 37 13 13-0242 304 Stainless Steel, Hinged Filter Grilles (23 37 13 13-0214)</b>						
23 37 13 13-0243	SF			Up To 4 SF, 304 Stainless Steel, Hinged Filter Grille .....	318.70	23.96
				<i>For 316 Stainless Steel, Add</i>	55.75	
23 37 13 13-0244	SF			>4 SF, 304 Stainless Steel, Hinged Filter Grille.....	221.81	23.96
				<i>For 316 Stainless Steel, Add</i>	36.37	
<b>23 37 13 13-0245 304 Stainless Steel, Opposed Blade Dampers Grilles (23 37 13 13-0214)</b>						
23 37 13 13-0246	SF			Up To 4 SF, 304 Stainless Steel, Opposed Blade Dampers Grille .....	173.87	23.96
				<i>For 316 Stainless Steel, Add</i>	26.79	
23 37 13 13-0247	SF			Opposed Blade Dampers Grille, Stainless Steel 304, > 4 SF .....	133.56	23.96
				<i>For 316 Stainless Steel, Add</i>	18.72	
<b>23 37 13 13-0248 304 Stainless Steel, Plaster Frames Replacement (23 37 13 13-0214)</b>						
Note: For frequent replacement.						
23 37 13 13-0249	SF			To 4 SF, 304 Stainless Steel, Plaster Frames Replacement .....	136.49	23.96
				<i>For 316 Stainless Steel, Add</i>	19.31	
23 37 13 13-0250	SF			>4 SF, 304 Stainless Steel, Plaster Frames Replacement .....	74.72	23.96
				<i>For 316 Stainless Steel, Add</i>	6.96	
<b>23 37 13 13-0251 304 Stainless Steel, Modular Louvered Ceiling Diffusers (23 37 13 13-0214)</b>						
23 37 13 13-0252	SF			Up To 4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser.....	314.03	23.96
				<i>For 316 Stainless Steel, Add</i>	54.82	
23 37 13 13-0253	SF			>4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser .....	246.72	23.96
				<i>For 316 Stainless Steel, Add</i>	41.36	
<b>23 37 13 13-0254 304 Stainless Steel, Latticed Supply/Return Grilles (23 37 13 13-0214)</b>						
23 37 13 13-0255	SF			Up To 4 SF, 304 Stainless Steel, Latticed Supply/Return Grille .....	113.13	23.96
				<i>For 316 Stainless Steel, Add</i>	14.64	
23 37 13 13-0256	SF			>4 SF, 304 Stainless Steel, Latticed Supply/Return Grille .....	113.13	23.96
				<i>For 316 Stainless Steel, Add</i>	14.64	
<b>23 37 13 13-0257 Removal And Reinstallation Of Distribution Devices (23 37 13 13)</b>						
Note: Includes storage and cleaning. Excludes ductwork.						
23 37 13 13-0258	EA			Removal And Reinstallation Of Variable Air Volume Terminal Unit .....	287.63	
23 37 13 13-0259	EA			Removal And Reinstallation Of Fan Powered Variable Volume Terminal Unit .....	317.24	
23 37 13 13-0260	EA			Removal And Reinstallation Of Lay-in Diffuser/Register/Grille .....	47.54	
23 37 13 13-0261	EA			Removal And Reinstallation Of Surface Mounted Diffuser/Register/Grille.....	64.40	
<b>23 37 13 43 Security Registers and Grilles (23 37 13)</b>						
<b>23 37 13 43-0001 Security Supply Or Return Grille (23 37 13 43)</b>						
Note: Designed for maximum security applications, 3/16" steel face plate with 2" x 2" square holes, 1/4" steel backer plate, 3/16" welded steel sleeve, 10 gauge x 2 wire mesh between face and backer plates, 1" x 1" x 3/16" angle iron frame, standard finish.						
23 37 13 43-0002	EA			8" x 4" Steel Security Grille .....	292.80	23.04
				<i>For Anchoring Tabs, Add</i>	24.67	
				<i>For Rear Operated Opposed Blade Damper, Add</i>	90.96	
				<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
				<i>For 1" x 1" Square Holes On Face, Add</i>	61.68	
				<i>For Stainless Steel, Add</i>	320.74	
23 37 13 43-0003	EA			8" x 6" Steel Security Grille .....	324.25	23.80
				<i>For Anchoring Tabs, Add</i>	27.66	
				<i>For Rear Operated Opposed Blade Damper, Add</i>	101.58	
				<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
				<i>For 1" x 1" Square Holes On Face, Add</i>	69.16	
				<i>For Stainless Steel, Add</i>	359.62	
23 37 13 43-0004	EA			8" x 8" Steel Security Grille .....	371.51	26.88
				<i>For Anchoring Tabs, Add</i>	31.78	
				<i>For Rear Operated Opposed Blade Damper, Add</i>	116.59	
				<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
				<i>For 1" x 1" Square Holes On Face, Add</i>	79.44	
				<i>For Stainless Steel, Add</i>	413.08	
23 37 13 43-0005	EA			10" x 4" Steel Security Grille .....	325.11	26.10
				<i>For Anchoring Tabs, Add</i>	27.29	
				<i>For Rear Operated Opposed Blade Damper, Add</i>	100.73	
				<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
				<i>For 1" x 1" Square Holes On Face, Add</i>	68.22	
				<i>For Stainless Steel, Add</i>	354.76	
23 37 13 43-0006	EA			10" x 6" Steel Security Grille .....	346.87	27.64
				<i>For Anchoring Tabs, Add</i>	29.16	
				<i>For Rear Operated Opposed Blade Damper, Add</i>	107.58	
				<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
				<i>For 1" x 1" Square Holes On Face, Add</i>	72.90	
				<i>For Stainless Steel, Add</i>	379.05	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0007	EA		10" x 8" Steel Security Grille .....	396.34	29.94
			<i>For Anchoring Tabs, Add</i>	33.64	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	123.74	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	84.11	
			<i>For Stainless Steel, Add</i>	437.37	
23 37 13 43-0008	EA		10" x 10" Steel Security Grille .....	442.06	32.26
			<i>For Anchoring Tabs, Add</i>	37.76	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	138.60	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	94.39	
			<i>For Stainless Steel, Add</i>	490.83	
23 37 13 43-0009	EA		12" x 4" Steel Security Grille .....	342.46	29.18
			<i>For Anchoring Tabs, Add</i>	28.41	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	105.27	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	71.03	
			<i>For Stainless Steel, Add</i>	369.33	
23 37 13 43-0010	EA		12" x 6" Steel Security Grille .....	382.25	32.26
			<i>For Anchoring Tabs, Add</i>	31.78	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	117.66	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	79.44	
			<i>For Stainless Steel, Add</i>	413.08	
23 37 13 43-0011	EA		12" x 8" Steel Security Grille .....	435.46	34.56
			<i>For Anchoring Tabs, Add</i>	36.64	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	135.13	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	91.59	
			<i>For Stainless Steel, Add</i>	476.26	
23 37 13 43-0012	EA		12" x 10" Steel Security Grille .....	473.71	36.86
			<i>For Anchoring Tabs, Add</i>	40.00	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	147.37	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	100.00	
			<i>For Stainless Steel, Add</i>	519.99	
23 37 13 43-0013	EA		12" x 12" Steel Security Grille .....	523.17	39.16
			<i>For Anchoring Tabs, Add</i>	44.49	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	163.53	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	111.21	
			<i>For Stainless Steel, Add</i>	578.31	
23 37 13 43-0014	EA		14" x 4" Steel Security Grille .....	365.77	31.48
			<i>For Anchoring Tabs, Add</i>	30.28	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	112.28	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	75.70	
			<i>For Stainless Steel, Add</i>	393.64	
23 37 13 43-0015	EA		14" x 6" Steel Security Grille .....	411.50	33.78
			<i>For Anchoring Tabs, Add</i>	34.39	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	127.13	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	85.98	
			<i>For Stainless Steel, Add</i>	447.10	
23 37 13 43-0016	EA		14" x 8" Steel Security Grille .....	458.76	36.86
			<i>For Anchoring Tabs, Add</i>	38.50	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	142.14	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	96.26	
			<i>For Stainless Steel, Add</i>	500.55	
23 37 13 43-0017	EA		14" x 10" Steel Security Grille .....	517.23	39.94
			<i>For Anchoring Tabs, Add</i>	43.74	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	161.07	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	109.34	
			<i>For Stainless Steel, Add</i>	568.58	
23 37 13 43-0018	EA		14" x 12" Steel Security Grille .....	569.77	43.78
			<i>For Anchoring Tabs, Add</i>	48.22	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	177.53	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	120.56	
			<i>For Stainless Steel, Add</i>	626.90	
23 37 13 43-0019	EA		14" x 14" Steel Security Grille .....	613.29	46.84
			<i>For Anchoring Tabs, Add</i>	51.96	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	191.23	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	129.90	
			<i>For Stainless Steel, Add</i>	675.49	
23 37 13 43-0020	EA		16" x 6" Steel Security Grille .....	440.07	36.86
			<i>For Anchoring Tabs, Add</i>	36.64	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	135.59	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	91.59	
			<i>For Stainless Steel, Add</i>	476.26	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0021 EA 16" x 8" Steel Security Grille .....	502.28	39.94
For Anchoring Tabs, Add	42.24	
For Rear Operated Opposed Blade Damper, Add	155.83	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	105.61	
For Stainless Steel, Add	549.15	
23 37 13 43-0022 EA 16" x 10" Steel Security Grille .....	542.06	43.00
For Anchoring Tabs, Add	45.61	
For Rear Operated Opposed Blade Damper, Add	168.22	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	114.02	
For Stainless Steel, Add	592.88	
23 37 13 43-0023 EA 16" x 12" Steel Security Grille .....	610.22	45.30
For Anchoring Tabs, Add	51.96	
For Rear Operated Opposed Blade Damper, Add	190.92	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	129.90	
For Stainless Steel, Add	675.49	
23 37 13 43-0024 EA 16" x 14" Steel Security Grille .....	646.27	48.38
For Anchoring Tabs, Add	54.95	
For Rear Operated Opposed Blade Damper, Add	202.01	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	137.38	
For Stainless Steel, Add	714.38	
23 37 13 43-0025 EA 16" x 16" Steel Security Grille .....	701.01	51.46
For Anchoring Tabs, Add	59.81	
For Rear Operated Opposed Blade Damper, Add	219.63	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	149.53	
For Stainless Steel, Add	777.56	
23 37 13 43-0026 EA 18" x 6" Steel Security Grille .....	467.97	41.46
For Anchoring Tabs, Add	38.50	
For Rear Operated Opposed Blade Damper, Add	143.06	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	96.26	
For Stainless Steel, Add	500.55	
23 37 13 43-0027 EA 18" x 8" Steel Security Grille .....	533.92	44.54
For Anchoring Tabs, Add	44.49	
For Rear Operated Opposed Blade Damper, Add	164.60	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	111.21	
For Stainless Steel, Add	578.31	
23 37 13 43-0028 EA 18" x 10" Steel Security Grille .....	584.93	47.62
For Anchoring Tabs, Add	48.97	
For Rear Operated Opposed Blade Damper, Add	180.92	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	122.43	
For Stainless Steel, Add	636.62	
23 37 13 43-0029 EA 18" x 12" Steel Security Grille .....	643.40	50.68
For Anchoring Tabs, Add	54.20	
For Rear Operated Opposed Blade Damper, Add	199.85	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	135.51	
For Stainless Steel, Add	704.65	
23 37 13 43-0030 EA 18" x 14" Steel Security Grille .....	686.73	49.92
For Anchoring Tabs, Add	58.69	
For Rear Operated Opposed Blade Damper, Add	215.40	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	146.73	
For Stainless Steel, Add	762.97	
23 37 13 43-0031 EA 18" x 16" Steel Security Grille .....	751.15	52.22
For Anchoring Tabs, Add	64.67	
For Rear Operated Opposed Blade Damper, Add	236.79	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	161.68	
For Stainless Steel, Add	840.72	
23 37 13 43-0032 EA 18" x 18" Steel Security Grille .....	804.35	54.52
For Anchoring Tabs, Add	69.53	
For Rear Operated Opposed Blade Damper, Add	254.26	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	173.83	
For Stainless Steel, Add	903.90	
23 37 13 43-0033 EA 20" x 6" Steel Security Grille .....	501.82	45.30
For Anchoring Tabs, Add	41.12	
For Rear Operated Opposed Blade Damper, Add	152.98	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	102.80	
For Stainless Steel, Add	534.56	
23 37 13 43-0034 EA 20" x 8" Steel Security Grille .....	567.11	49.92
For Anchoring Tabs, Add	46.73	
For Rear Operated Opposed Blade Damper, Add	173.53	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	116.82	
For Stainless Steel, Add	607.46	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 37 Air Outlets and Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0035 EA 20" x 10" Steel Security Grille .....	624.05	52.22
For Anchoring Tabs, Add	51.96	
For Rear Operated Opposed Blade Damper, Add	192.31	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	129.90	
For Stainless Steel, Add	675.49	
23 37 13 43-0036 EA 20" x 12" Steel Security Grille .....	686.27	55.30
For Anchoring Tabs, Add	57.57	
For Rear Operated Opposed Blade Damper, Add	212.55	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	143.92	
For Stainless Steel, Add	748.40	
23 37 13 43-0037 EA 20" x 14" Steel Security Grille .....	754.42	57.60
For Anchoring Tabs, Add	63.92	
For Rear Operated Opposed Blade Damper, Add	235.25	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	159.81	
For Stainless Steel, Add	831.01	
23 37 13 43-0038 EA 20" x 16" Steel Security Grille .....	815.10	59.90
For Anchoring Tabs, Add	69.53	
For Rear Operated Opposed Blade Damper, Add	255.34	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	173.83	
For Stainless Steel, Add	903.90	
23 37 13 43-0039 EA 20" x 18" Steel Security Grille .....	872.04	62.20
For Anchoring Tabs, Add	74.76	
For Rear Operated Opposed Blade Damper, Add	274.11	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	186.91	
For Stainless Steel, Add	971.93	
23 37 13 43-0040 EA 20" x 20" Steel Security Grille .....	940.20	64.50
For Anchoring Tabs, Add	81.12	
For Rear Operated Opposed Blade Damper, Add	296.82	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	202.80	
For Stainless Steel, Add	1,054.55	
23 37 13 43-0041 EA 24" x 6" Steel Security Grille .....	557.42	50.68
For Anchoring Tabs, Add	45.61	
For Rear Operated Opposed Blade Damper, Add	169.76	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	114.02	
For Stainless Steel, Add	592.88	
23 37 13 43-0042 EA 24" x 8" Steel Security Grille .....	630.18	55.30
For Anchoring Tabs, Add	51.96	
For Rear Operated Opposed Blade Damper, Add	192.92	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	129.90	
For Stainless Steel, Add	675.49	
23 37 13 43-0043 EA 24" x 10" Steel Security Grille .....	689.33	56.82
For Anchoring Tabs, Add	57.57	
For Rear Operated Opposed Blade Damper, Add	212.86	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	143.92	
For Stainless Steel, Add	748.40	
23 37 13 43-0044 EA 24" x 12" Steel Security Grille .....	772.63	62.98
For Anchoring Tabs, Add	64.67	
For Rear Operated Opposed Blade Damper, Add	238.94	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	161.68	
For Stainless Steel, Add	840.72	
23 37 13 43-0045 EA 24" x 14" Steel Security Grille .....	833.32	65.28
For Anchoring Tabs, Add	70.28	
For Rear Operated Opposed Blade Damper, Add	259.03	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	175.70	
For Stainless Steel, Add	913.63	
23 37 13 43-0046 EA 24" x 16" Steel Security Grille .....	908.94	67.58
For Anchoring Tabs, Add	77.38	
For Rear Operated Opposed Blade Damper, Add	284.35	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	193.45	
For Stainless Steel, Add	1,005.95	
23 37 13 43-0047 EA 24" x 18" Steel Security Grille .....	995.78	69.88
For Anchoring Tabs, Add	85.61	
For Rear Operated Opposed Blade Damper, Add	313.59	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	214.01	
For Stainless Steel, Add	1,112.87	
23 37 13 43-0048 EA 24" x 20" Steel Security Grille .....	1,056.47	72.18
For Anchoring Tabs, Add	91.21	
For Rear Operated Opposed Blade Damper, Add	333.68	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	228.03	
For Stainless Steel, Add	1,185.77	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 37	13 43-0049	EA	24" x 24" Steel Security Grille ..... <i>For Anchoring Tabs, Add</i> <i>For Rear Operated Opposed Blade Damper, Add</i> <i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i> <i>For 1" x 1" Square Holes On Face, Add</i> <i>For Stainless Steel, Add</i>	1,185.30 103.18 376.47 0.35 257.94 1,341.28	76.80
<b>23 37 13 43-0050 Security Registers And Grilles (23 37 13 43)</b>						
<b>23 37 13 43-0051 Maximum Security Steel Supply / Return Registers (23 37 13 43-0050)</b>						
Note: Includes damper as manufactured by Titus or equal.						
	23 37	13 43-0052	EA	6" x 6" Maximum Security Supply/ Return Register .....	265.12	17.18
	23 37	13 43-0053	EA	9" x 9" Maximum Security Supply/ Return Register .....	382.60	20.44
	23 37	13 43-0054	EA	12" x 6" Maximum Security Supply/ Return Register .....	357.02	21.46
	23 37	13 43-0055	EA	12" x 8" Maximum Security Supply/ Return Register .....	412.58	24.77
	23 37	13 43-0056	EA	10" x 10" Maximum Security Supply/ Return Register .....	386.91	21.46
	23 37	13 43-0057	EA	14" x 12" Maximum Security Supply/ Return Register .....	536.51	30.19
	23 37	13 43-0058	EA	14" x 14" Maximum Security Supply/ Return Register .....	607.02	32.52
	23 37	13 43-0059	EA	18" x 18" Maximum Security Supply/ Return Register .....	812.10	38.64
	23 37	13 43-0060	EA	24" x 24" Maximum Security Supply/ Return Registers .....	1,164.55	49.39
<b>23 37 13 43-0061 Staff Security Steel Supply Registers (23 37 13 43-0050)</b>						
Note: Includes damper as manufactured by Titus or equal.						
	23 37	13 43-0062	EA	6" x 6" Staff Security Supply Register .....	199.38	17.18
	23 37	13 43-0063	EA	9" x 9" Staff Security Supply Register .....	257.08	20.44
	23 37	13 43-0064	EA	12" x 12" Staff Security Supply Register .....	324.70	27.89
	23 37	13 43-0065	EA	15" x 15" Staff Security Supply Register .....	461.89	32.20
	23 37	13 43-0066	EA	21" x 21" Staff Security Supply Register .....	657.63	42.95
	23 37	13 43-0067	EA	24" x 24" Staff Security Supply Register .....	790.99	49.39
<b>23 37 13 43-0068 Staff Security Steel Return Registers (23 37 13 43-0050)</b>						
Note: Includes damper as manufactured by Titus or equal.						
	23 37	13 43-0069	EA	10" x 4" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	254.48	18.58
	23 37	13 43-0070	EA	6" x 6" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	229.26	17.18
	23 37	13 43-0071	EA	10" x 6" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	277.55	19.35
	23 37	13 43-0072	EA	12" x 5" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	283.14	20.90
	23 37	13 43-0073	EA	12" x 8" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	352.81	24.77
	23 37	13 43-0074	EA	16" x 6" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	370.74	24.77
	23 37	13 43-0075	EA	16" x 8" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	413.05	25.70
	23 37	13 43-0076	EA	12" x 12" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	414.36	27.89
	23 37	13 43-0077	EA	30" x 6" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	540.80	31.27
	23 37	13 43-0078	EA	14" x 12" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	461.80	30.19
	23 37	13 43-0079	EA	28" x 8" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	577.14	32.20
	23 37	13 43-0080	EA	18" x 12" 12 Gage Flat Steel Plate Staff Security Return Register ..... Note: Perforated with square holes.	532.31	31.89
<b>23 37 13 43-0081 Maximum Security Steel Grills (23 37 13 43-0050)</b>						
Note: Includes damper as manufactured by Titus or equal.						
	23 37	13 43-0082	EA	10" x 4" Maximum Security Grill.....	218.62	18.58
	23 37	13 43-0083	EA	6" x 6" Maximum Security Grill.....	199.38	17.18
	23 37	13 43-0084	EA	10" x 6" Maximum Security Grill.....	235.71	19.35
	23 37	13 43-0085	EA	12" x 5" Maximum Security Grill.....	244.29	20.90
	23 37	13 43-0086	EA	12" x 8" Maximum Security Grill.....	290.05	24.77
	23 37	13 43-0087	EA	16" x 8" Maximum Security Grill.....	335.34	25.70
	23 37	13 43-0088	EA	12" x 12" Maximum Security Grill.....	336.66	27.89
	23 37	13 43-0089	EA	14" x 12" Maximum Security Grill.....	366.17	30.19
	23 37	13 43-0090	EA	30" x 6" Maximum Security Grill.....	451.15	31.27
	23 37	13 43-0091	EA	28" x 8" Maximum Security Grill.....	475.53	32.20
	23 37	13 43-0092	EA	18" x 12" Maximum Security Grill.....	433.69	31.89

**23 38 Ventilation Hoods (23 30)**

**23 38 13 Commercial-Kitchen Hoods (23 38)**

**23 38 13 13 Listed Commercial-Kitchen Hoods (23 38 13)**

**23 38 13 13-0001 Universal Ventless Hood (23 38 13 13)**

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 30 HVAC Air Distribution****23 38 Ventilation Hoods**MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

23 38 13 13-0002	EA	109" Wide x 50" Deep x 102" High, Ventless Exhaust Hood With Stand, (Wells WVU-96)	52,728.89	650.32
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**23 38 13 16 Standard Commercial-Kitchen Hoods (23 38 13)****23 38 13 16-0001 Commercial Kitchen Hood Ventilation System (23 38 13 16)**

Note: Excludes fire suppression. See CSI section 21 24 16 00-0000 for fire suppression system, 23 31 13 23-0000 for duct, 23 34 16 00-0108 for exhaust and supply fans.

**23 38 13 16-0002 Dry Filter Exhaust Hoods (23 38 13 16-0001)**

Note: Includes stainless steel filters, exhaust damper and 48" long fluorescent light fixtures.

23 38 13 16-0003	EA	8' Long x 60" Deep Dry Filter Exhaust Hood	12,955.60	1,220.12
23 38 13 16-0004	EA	8'-6" Long x 60" Deep Dry Filter Exhaust Hood	13,506.10	1,296.37
23 38 13 16-0005	EA	9' Long x 60" Deep Dry Filter Exhaust Hood	15,036.86	1,372.63
23 38 13 16-0006	EA	9'-6" Long x 60" Deep Dry Filter Exhaust Hood	15,505.39	1,448.89
23 38 13 16-0007	EA	10' Long x 60" Deep Dry Filter Exhaust Hood	16,070.00	1,525.15
23 38 13 16-0008	EA	10'-6" Long x 60" Deep Dry Filter Exhaust Hood	16,664.84	1,601.40
23 38 13 16-0009	EA	11' Long x 60" Deep Dry Filter Exhaust Hood	17,230.33	1,677.66
23 38 13 16-0010	EA	11'-6" Long x 60" Deep Dry Filter Exhaust Hood	17,812.41	1,753.91
23 38 13 16-0011	EA	12' Long x 60" Deep Dry Filter Exhaust Hood	18,456.68	1,830.18
23 38 13 16-0012	EA	12'-6" Long x 60" Deep Dry Filter Exhaust Hood	19,018.36	1,906.44
23 38 13 16-0013	EA	13' Long x 60" Deep Dry Filter Exhaust Hood	19,488.37	1,982.69
23 38 13 16-0014	EA	13'-6" Long x 60" Deep Dry Filter Exhaust Hood	20,262.01	2,058.95
23 38 13 16-0015	EA	14' Long x 60" Deep Dry Filter Exhaust Hood	22,610.48	2,135.20
23 38 13 16-0016	EA	14'-6" Long x 60" Deep Dry Filter Exhaust Hood	23,227.49	2,211.47
23 38 13 16-0017	EA	15' Long x 60" Deep Dry Filter Exhaust Hood	24,053.31	2,287.72
23 38 13 16-0018	EA	15'-6" Long x 60" Deep Dry Filter Exhaust Hood	24,683.00	2,363.98
23 38 13 16-0019	EA	16' Long x 60" Deep Dry Filter Exhaust Hood	25,610.24	2,440.23

**23 38 13 16-0020 Dry Extractor Exhaust Hoods (23 38 13 16-0001)**

Note: Includes extractor inserts, exhaust damper, 48" long fluorescent light fixtures, and UDS filler panels.

23 38 13 16-0021	EA	8' Long x 60" Deep Dry Extractor Exhaust Hood	17,960.74	1,220.12
23 38 13 16-0022	EA	8'-6" Long x 60" Deep Dry Extractor Exhaust Hood	18,542.91	1,296.37
23 38 13 16-0023	EA	9' Long x 60" Deep Dry Extractor Exhaust Hood	20,168.72	1,372.63
23 38 13 16-0024	EA	9'-6" Long x 60" Deep Dry Extractor Exhaust Hood	20,763.96	1,448.89
23 38 13 16-0025	EA	10' Long x 60" Deep Dry Extractor Exhaust Hood	21,360.24	1,525.15
23 38 13 16-0026	EA	10'-6" Long x 60" Deep Dry Extractor Exhaust Hood	21,923.41	1,601.40
23 38 13 16-0027	EA	11' Long x 60" Deep Dry Extractor Exhaust Hood	22,520.57	1,677.66
23 38 13 16-0028	EA	11'-6" Long x 60" Deep Dry Extractor Exhaust Hood	23,086.82	1,753.91
23 38 13 16-0029	EA	12' Long x 60" Deep Dry Extractor Exhaust Hood	23,620.21	1,830.18
23 38 13 16-0030	EA	12'-6" Long x 60" Deep Dry Extractor Exhaust Hood	24,371.96	1,906.44
23 38 13 16-0031	EA	13' Long x 60" Deep Dry Extractor Exhaust Hood	25,237.94	1,982.69
23 38 13 16-0032	EA	13'-6" Long x 60" Deep Dry Extractor Exhaust Hood	26,154.14	2,058.95
23 38 13 16-0033	EA	14' Long x 60" Deep Dry Extractor Exhaust Hood	28,043.27	2,135.20
23 38 13 16-0034	EA	14'-6" Long x 60" Deep Dry Extractor Exhaust Hood	28,977.07	2,211.47
23 38 13 16-0035	EA	15' Long x 60" Deep Dry Extractor Exhaust Hood	30,769.07	2,287.72
23 38 13 16-0036	EA	15'-6" Long x 60" Deep Dry Extractor Exhaust Hood	32,586.69	2,363.98
23 38 13 16-0037	EA	16' Long x 60" Deep Dry Extractor Exhaust Hood	34,385.07	2,440.23

**23 38 13 16-0038 Single Manifold Water Wash Exhaust Hoods (23 38 13 16-0001)**

Note: Includes extraction baffles, 48" long fluorescent light fixtures, and UDS filler panels. Excludes fan wash control panel.

23 38 13 16-0039	EA	8' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	19,227.86	1,220.12
23 38 13 16-0040	EA	8'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	19,841.72	1,296.37
23 38 13 16-0041	EA	9' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	21,499.20	1,372.63
23 38 13 16-0042	EA	9'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	22,110.28	1,448.89
23 38 13 16-0043	EA	10' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	22,754.08	1,525.15
23 38 13 16-0044	EA	10'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	23,348.92	1,601.40
23 38 13 16-0045	EA	11' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	23,961.92	1,677.66
23 38 13 16-0046	EA	11'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	24,575.69	1,753.91
23 38 13 16-0047	EA	12' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	25,124.92	1,830.18
23 38 13 16-0048	EA	12'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	25,940.02	1,906.44
23 38 13 16-0049	EA	13' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	26,869.37	1,982.69
23 38 13 16-0050	EA	13'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	27,848.92	2,058.95
23 38 13 16-0051	EA	14' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	29,801.41	2,135.20
23 38 13 16-0052	EA	14'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	30,798.56	2,211.47
23 38 13 16-0053	EA	15' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	32,764.79	2,287.72
23 38 13 16-0054	EA	15'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	33,758.78	2,363.98
23 38 13 16-0055	EA	16' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	34,749.37	2,440.23
23 38 13 16-0056	EA	Fan Wash Control Panel	13,697.11	610.06

Note: Includes time clock and backflow preventer.

**23 38 13 16-0057 Utility Distribution System (UDS) (23 38 13 16-0001)**

Note: Includes "L" shaped primary riser, secondary riser, horizontal mechanical and electrical raceway; 2" IPS looped gas manifold with two (2) solenoid gas valves; 1" hot water manifold; 1" cold water manifold; 100 Amp 120-208 VAC/3 Ph/60 Hz main shunt trip connectors; equipment restraints; flexible drain connectors; and power interruption device. Excludes main shunt breaker.

23 38 13 16-0058	EA	8' Long UDS	35,080.00	620.43
23 38 13 16-0059	EA	8'-6" Long UDS	36,113.93	635.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 38 13 16-0060 EA 9' Long UDS .....	37,136.53	650.32
23 38 13 16-0061 EA 9'-6" Long UDS .....	38,171.19	671.07
23 38 13 16-0062 EA 10' Long UDS .....	39,197.24	687.53
23 38 13 16-0063 EA 10'-6" Long UDS .....	40,214.16	704.92
23 38 13 16-0064 EA 11' Long UDS .....	41,242.10	716.97
23 38 13 16-0065 EA 11'-6" Long UDS .....	42,272.87	735.88
23 38 13 16-0066 EA 12' Long UDS .....	43,319.44	762.57
23 38 13 16-0067 EA 12'-6" Long UDS .....	44,385.11	798.87
23 38 13 16-0068 EA 13' Long UDS .....	45,425.14	822.36
23 38 13 16-0069 EA 13'-6" Long UDS .....	46,485.33	855.91
23 38 13 16-0070 EA 14' Long UDS .....	47,532.44	882.91
23 38 13 16-0071 EA 14'-6" Long UDS .....	48,583.06	911.73
23 38 13 16-0072 EA 15' Long UDS .....	49,637.59	942.54
23 38 13 16-0073 EA 15'-6" Long UDS .....	50,696.37	975.33
23 38 13 16-0074 EA 16' Long UDS .....	51,735.88	998.67

**23 38 13 16-0075 Stainless Steel Exhaust Hood Material** (23 38 13 16)

Note: Welded seams.

23 38 13 16-0076 SF 16 Gauge, Type 304, Stainless Steel Exhaust Hood Material .....	53.17	18.79
<i>For Type 316 Stainless Steel, Add</i>	1.42	
23 38 13 16-0077 SF 14 Gauge, Type 304, Stainless Steel Exhaust Hood Material .....	66.47	25.04
<i>For Type 316 Stainless Steel, Add</i>	1.78	
23 38 13 16-0078 SF 12 Gauge, Type 304, Stainless Steel Exhaust Hood Material .....	92.28	33.81
<i>For Type 316 Stainless Steel, Add</i>	2.49	
23 38 13 16-0079 SF 10 Gauge, Type 304, Stainless Steel Exhaust Hood Material .....	115.44	41.32
<i>For Type 316 Stainless Steel, Add</i>	3.20	

**23 40 HVAC Air Cleaning Devices** (23)

**23 41 Particulate Air Filtration** (23 40)

**23 41 13 Panel Air Filters** (23 41)

**23 41 13 00-0001 Disposable Air Filters** (23 41 13)

23 41 13 00-0002 EA Throwaway Glass Or Paper Media Filter, Residential .....	16.21	
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**23 41 13 00-0003 Disposable Fiberglass Air Filters** (23 41 13)

23 41 13 00-0004 EA 8" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	16.34	7.37
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0005 EA 8" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	16.34	7.37
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0006 EA 8" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	16.01	7.37
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0007 EA 10" x 10" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	15.93	7.72
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0008 EA 10" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	15.93	7.72
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0009 EA 10" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	15.93	7.72
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0010 EA 10" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	15.93	7.72
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0011 EA 10" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	16.20	7.72
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0012 EA 12" x 12" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	16.82	8.06
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0013 EA 12" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	16.79	8.06
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0014 EA 12" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	16.04	8.06
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0015 EA 12" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	16.04	8.06
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0016 EA 12" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	16.04	8.06
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0017 EA 12" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	19.00	8.06
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0018 EA 12" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	22.39	8.06
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0019 EA 14" x 14" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	18.10	8.52
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0020 EA 14" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	20.93	8.52
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0021 EA 14" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	17.01	8.52
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0022 EA 14" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	18.10	8.52
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0023 EA 14" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	17.01	8.52
Note: One-piece kraft fiberboard frame with two metal grids.		
23 41 13 00-0024 EA 14" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5 .....	19.12	8.52
Note: One-piece kraft fiberboard frame with two metal grids.		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 40 HVAC Air Cleaning Devices**

**23 41 Particulate Air Filtration**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0025 EA 15" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.22	8.76
23 41 13 00-0026 EA 15" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.22	8.76
23 41 13 00-0027 EA 15" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.16	8.76
23 41 13 00-0028 EA 16" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.41	8.87
23 41 13 00-0029 EA 16" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.25	8.87
23 41 13 00-0030 EA 16" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.47	8.87
23 41 13 00-0031 EA 16" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.56	8.87
23 41 13 00-0032 EA 16" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.76	8.87
23 41 13 00-0033 EA 16" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.34	8.87
23 41 13 00-0034 EA 16" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	26.45	8.87
23 41 13 00-0035 EA 16" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	26.12	8.87
23 41 13 00-0036 EA 18" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.01	9.22
23 41 13 00-0037 EA 18" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.58	9.22
23 41 13 00-0038 EA 18" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.01	9.22
23 41 13 00-0039 EA 18" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.44	9.22
23 41 13 00-0040 EA 18" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.52	9.22
23 41 13 00-0041 EA 18" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	24.91	9.22
23 41 13 00-0042 EA 19" x 27" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.14	9.68
23 41 13 00-0043 EA 20" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.81	9.68
23 41 13 00-0044 EA 20" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.56	9.68
23 41 13 00-0045 EA 20" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.68	9.68
23 41 13 00-0046 EA 20" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.46	9.68
23 41 13 00-0047 EA 20" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	27.52	9.68
23 41 13 00-0048 EA 20" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	24.86	9.68
23 41 13 00-0049 EA 21" x 21" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.67	9.79
23 41 13 00-0050 EA 22" x 22" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.72	9.91
23 41 13 00-0051 EA 24" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	21.87	10.02
23 41 13 00-0052 EA 24" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.59	10.02
23 41 13 00-0053 EA 24" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	29.98	10.02
23 41 13 00-0054 EA 25" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.03	10.13
23 41 13 00-0055 EA 25" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	30.58	10.13
23 41 13 00-0056 EA 10" x 10" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.17	7.72
23 41 13 00-0057 EA 10" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	16.94	7.72
23 41 13 00-0058 EA 12" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	19.69	8.06
23 41 13 00-0059 EA 14" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.30	8.52
23 41 13 00-0060 EA 14" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.30	8.52
23 41 13 00-0061 EA 15" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.73	8.76
23 41 13 00-0062 EA 16" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.62	8.87
23 41 13 00-0063 EA 16" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.43	8.87
23 41 13 00-0064 EA 16" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	20.89	8.87
23 41 13 00-0065 EA 18" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.13	9.22
23 41 13 00-0066 EA 20" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.87	9.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0067 EA 20" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.56	9.68
23 41 13 00-0068 EA 20" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	22.56	9.68
23 41 13 00-0069 EA 24" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	23.35	10.02
23 41 13 00-0070 EA 25" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	23.51	10.13
<b>23 41 13 00-0071 Disposable Pleated Air Filters (23 41 13)</b>		
23 41 13 00-0072 EA 10" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	17.17	7.72
23 41 13 00-0073 EA 10" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	25.30	7.72
23 41 13 00-0074 EA 10" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	31.71	7.72
23 41 13 00-0075 EA 12" x 12" x 1" Disposable Pleated Air Filter, MERV 8.....	22.02	8.06
23 41 13 00-0076 EA 12" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	20.51	8.06
23 41 13 00-0077 EA 12" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	20.27	8.06
23 41 13 00-0078 EA 12" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	20.27	8.06
23 41 13 00-0079 EA 12" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	32.18	8.06
23 41 13 00-0080 EA 14" x 14" x 1" Disposable Pleated Air Filter, MERV 8.....	24.89	8.52
23 41 13 00-0081 EA 14" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	21.12	8.52
23 41 13 00-0082 EA 14" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	26.81	8.52
23 41 13 00-0083 EA 14" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	21.81	8.52
23 41 13 00-0084 EA 14" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	31.08	8.52
23 41 13 00-0085 EA 15" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	21.56	8.76
23 41 13 00-0086 EA 16" x 16" x 1" Disposable Pleated Air Filter, MERV 8.....	25.35	8.87
23 41 13 00-0087 EA 16" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	21.27	8.87
23 41 13 00-0088 EA 16" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	24.70	8.87
23 41 13 00-0089 EA 16" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	22.04	8.87
23 41 13 00-0090 EA 16" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	31.54	8.87
23 41 13 00-0091 EA 18" x 18" x 1" Disposable Pleated Air Filter, MERV 8.....	33.70	9.22
23 41 13 00-0092 EA 18" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	25.10	9.22
23 41 13 00-0093 EA 18" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	24.68	9.22
23 41 13 00-0094 EA 18" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	24.38	9.22
23 41 13 00-0095 EA 18" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	33.91	9.22
23 41 13 00-0096 EA 20" x 20" x 1" Disposable Pleated Air Filter, MERV 8.....	23.23	9.68
23 41 13 00-0097 EA 20" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	24.79	9.68
23 41 13 00-0098 EA 20" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	24.53	9.68
23 41 13 00-0099 EA 20" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	27.64	9.68
23 41 13 00-0100 EA 22" x 22" x 1" Disposable Pleated Air Filter, MERV 8.....	33.48	9.91
23 41 13 00-0101 EA 24" x 24" x 1" Disposable Pleated Air Filter, MERV 8.....	26.39	10.02
23 41 13 00-0102 EA 24" x 30" x 1" Disposable Pleated Air Filter, MERV 8.....	41.13	10.02
23 41 13 00-0103 EA 25" x 25" x 1" Disposable Pleated Air Filter, MERV 8.....	27.90	10.13
23 41 13 00-0104 EA 10" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	20.20	7.72
23 41 13 00-0105 EA 12" x 12" x 2" Disposable Pleated Air Filter, MERV 8.....	26.25	8.06
23 41 13 00-0106 EA 12" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	21.17	8.06
23 41 13 00-0107 EA 12" x 24" x 2" Disposable Pleated Air Filter, MERV 8.....	20.86	8.06
23 41 13 00-0108 EA 14" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	22.05	8.52
23 41 13 00-0109 EA 14" x 25" x 2" Disposable Pleated Air Filter, MERV 8.....	23.00	8.52
23 41 13 00-0110 EA 15" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	22.35	8.76
23 41 13 00-0111 EA 16" x 16" x 2" Disposable Pleated Air Filter, MERV 8.....	27.98	8.87
23 41 13 00-0112 EA 16" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	21.93	8.87
23 41 13 00-0113 EA 16" x 24" x 2" Disposable Pleated Air Filter, MERV 8.....	24.94	8.87
23 41 13 00-0114 EA 16" x 25" x 2" Disposable Pleated Air Filter, MERV 8.....	23.14	8.87
23 41 13 00-0115 EA 18" x 18" x 2" Disposable Pleated Air Filter, MERV 8.....	32.22	9.22
23 41 13 00-0116 EA 18" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	27.58	9.22
23 41 13 00-0117 EA 18" x 24" x 2" Disposable Pleated Air Filter, MERV 8.....	25.10	9.22
23 41 13 00-0118 EA 18" x 25" x 2" Disposable Pleated Air Filter, MERV 8.....	26.05	9.22
23 41 13 00-0119 EA 20" x 20" x 2" Disposable Pleated Air Filter, MERV 8.....	24.45	9.68
23 41 13 00-0120 EA 20" x 24" x 2" Disposable Pleated Air Filter, MERV 8.....	26.16	9.68
23 41 13 00-0121 EA 20" x 25" x 2" Disposable Pleated Air Filter, MERV 8.....	25.86	9.68
23 41 13 00-0122 EA 20" x 30" x 2" Disposable Pleated Air Filter, MERV 8.....	37.07	9.68
23 41 13 00-0123 EA 24" x 24" x 2" Disposable Pleated Air Filter, MERV 8.....	27.71	10.02
23 41 13 00-0124 EA 25" x 25" x 2" Disposable Pleated Air Filter, MERV 8.....	30.56	10.13
23 41 13 00-0125 EA 12" x 24" x 4" Disposable Pleated Air Filter, MERV 8.....	31.71	8.06
23 41 13 00-0126 EA 16" x 20" x 4" Disposable Pleated Air Filter, MERV 8.....	34.28	8.87
23 41 13 00-0127 EA 16" x 25" x 4" Disposable Pleated Air Filter, MERV 8.....	36.61	8.87
23 41 13 00-0128 EA 18" x 24" x 4" Disposable Pleated Air Filter, MERV 8.....	39.45	9.22
23 41 13 00-0129 EA 20" x 20" x 4" Disposable Pleated Air Filter, MERV 8.....	37.55	9.68
23 41 13 00-0130 EA 20" x 24" x 4" Disposable Pleated Air Filter, MERV 8.....	40.81	9.68
23 41 13 00-0131 EA 20" x 25" x 4" Disposable Pleated Air Filter, MERV 8.....	41.11	9.68
23 41 13 00-0132 EA 24" x 24" x 4" Disposable Pleated Air Filter, MERV 8.....	44.85	10.02
23 41 13 00-0133 EA 10" x 20" x 1" Disposable Pleated Air Filter, MERV 11.....	28.86	7.72
23 41 13 00-0134 EA 10" x 24" x 1" Disposable Pleated Air Filter, MERV 11.....	28.86	7.72
23 41 13 00-0135 EA 10" x 30" x 1" Disposable Pleated Air Filter, MERV 11.....	37.29	7.72
23 41 13 00-0136 EA 12" x 12" x 1" Disposable Pleated Air Filter, MERV 11.....	30.59	8.06
23 41 13 00-0137 EA 12" x 20" x 1" Disposable Pleated Air Filter, MERV 11.....	29.84	8.06
23 41 13 00-0138 EA 12" x 24" x 1" Disposable Pleated Air Filter, MERV 11.....	29.71	8.06
23 41 13 00-0139 EA 12" x 30" x 1" Disposable Pleated Air Filter, MERV 11.....	42.27	8.06
23 41 13 00-0140 EA 14" x 14" x 1" Disposable Pleated Air Filter, MERV 11.....	34.72	8.52
23 41 13 00-0141 EA 14" x 20" x 1" Disposable Pleated Air Filter, MERV 11.....	30.64	8.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0142 EA 14" x 24" x 1" Disposable Pleated Air Filter, MERV 11.....	39.41	8.52
23 41 13 00-0143 EA 14" x 25" x 1" Disposable Pleated Air Filter, MERV 11.....	38.56	8.52
23 41 13 00-0144 EA 14" x 30" x 1" Disposable Pleated Air Filter, MERV 11.....	45.18	8.52
23 41 13 00-0145 EA 15" x 20" x 1" Disposable Pleated Air Filter, MERV 11.....	29.44	8.76
23 41 13 00-0146 EA 16" x 16" x 1" Disposable Pleated Air Filter, MERV 11.....	41.49	8.87
23 41 13 00-0147 EA 16" x 20" x 1" Disposable Pleated Air Filter, MERV 11.....	27.55	8.87
23 41 13 00-0148 EA 16" x 24" x 1" Disposable Pleated Air Filter, MERV 11.....	35.37	8.87
23 41 13 00-0149 EA 16" x 25" x 1" Disposable Pleated Air Filter, MERV 11.....	32.55	8.87
23 41 13 00-0150 EA 16" x 30" x 1" Disposable Pleated Air Filter, MERV 11.....	42.80	8.87
23 41 13 00-0151 EA 18" x 18" x 1" Disposable Pleated Air Filter, MERV 11.....	43.79	9.22
23 41 13 00-0152 EA 18" x 20" x 1" Disposable Pleated Air Filter, MERV 11.....	37.25	9.22
23 41 13 00-0153 EA 18" x 24" x 1" Disposable Pleated Air Filter, MERV 11.....	33.64	9.22
23 41 13 00-0154 EA 18" x 25" x 1" Disposable Pleated Air Filter, MERV 11.....	35.82	9.22
23 41 13 00-0155 EA 18" x 30" x 1" Disposable Pleated Air Filter, MERV 11.....	49.41	9.22
23 41 13 00-0156 EA 20" x 20" x 1" Disposable Pleated Air Filter, MERV 11.....	33.82	9.68
23 41 13 00-0157 EA 20" x 24" x 1" Disposable Pleated Air Filter, MERV 11.....	37.05	9.68
23 41 13 00-0158 EA 20" x 25" x 1" Disposable Pleated Air Filter, MERV 11.....	37.40	9.68
23 41 13 00-0159 EA 20" x 30" x 1" Disposable Pleated Air Filter, MERV 11.....	43.41	9.68
23 41 13 00-0160 EA 22" x 22" x 1" Disposable Pleated Air Filter, MERV 11.....	48.01	9.91
23 41 13 00-0161 EA 24" x 24" x 1" Disposable Pleated Air Filter, MERV 11.....	40.55	10.02
23 41 13 00-0162 EA 24" x 30" x 1" Disposable Pleated Air Filter, MERV 11.....	52.35	10.02
23 41 13 00-0163 EA 25" x 25" x 1" Disposable Pleated Air Filter, MERV 11.....	45.56	10.13
23 41 13 00-0164 EA 10" x 20" x 2" Disposable Pleated Air Filter, MERV 11.....	29.37	7.72
23 41 13 00-0165 EA 12" x 12" x 2" Disposable Pleated Air Filter, MERV 11.....	30.92	8.06
23 41 13 00-0166 EA 12" x 20" x 2" Disposable Pleated Air Filter, MERV 11.....	29.43	8.06
23 41 13 00-0167 EA 12" x 24" x 2" Disposable Pleated Air Filter, MERV 11.....	34.45	8.06
23 41 13 00-0168 EA 14" x 20" x 2" Disposable Pleated Air Filter, MERV 11.....	30.98	8.52
23 41 13 00-0169 EA 14" x 25" x 2" Disposable Pleated Air Filter, MERV 11.....	32.43	8.52
23 41 13 00-0170 EA 15" x 20" x 2" Disposable Pleated Air Filter, MERV 11.....	31.82	8.76
23 41 13 00-0171 EA 16" x 16" x 2" Disposable Pleated Air Filter, MERV 11.....	42.34	8.87
23 41 13 00-0172 EA 16" x 20" x 2" Disposable Pleated Air Filter, MERV 11.....	36.96	8.87
23 41 13 00-0173 EA 16" x 24" x 2" Disposable Pleated Air Filter, MERV 11.....	36.04	8.87
23 41 13 00-0174 EA 16" x 25" x 2" Disposable Pleated Air Filter, MERV 11.....	40.72	8.87
23 41 13 00-0175 EA 18" x 18" x 2" Disposable Pleated Air Filter, MERV 11.....	48.70	9.22
23 41 13 00-0176 EA 18" x 20" x 2" Disposable Pleated Air Filter, MERV 11.....	38.78	9.22
23 41 13 00-0177 EA 18" x 24" x 2" Disposable Pleated Air Filter, MERV 11.....	44.15	9.22
23 41 13 00-0178 EA 18" x 25" x 2" Disposable Pleated Air Filter, MERV 11.....	38.35	9.22
23 41 13 00-0179 EA 20" x 20" x 2" Disposable Pleated Air Filter, MERV 11.....	42.48	9.68
23 41 13 00-0180 EA 20" x 24" x 2" Disposable Pleated Air Filter, MERV 11.....	45.48	9.68
23 41 13 00-0181 EA 20" x 25" x 2" Disposable Pleated Air Filter, MERV 11.....	45.92	9.68
23 41 13 00-0182 EA 24" x 24" x 2" Disposable Pleated Air Filter, MERV 11.....	45.94	10.02
23 41 13 00-0183 EA 25" x 25" x 2" Disposable Pleated Air Filter, MERV 11.....	46.54	10.13
23 41 13 00-0184 EA 12" x 24" x 4" Disposable Pleated Air Filter, MERV 11.....	55.59	8.06
23 41 13 00-0185 EA 16" x 20" x 4" Disposable Pleated Air Filter, MERV 11.....	56.99	8.87
23 41 13 00-0186 EA 16" x 25" x 4" Disposable Pleated Air Filter, MERV 11.....	67.72	8.87
23 41 13 00-0187 EA 18" x 24" x 4" Disposable Pleated Air Filter, MERV 11.....	67.65	9.22
23 41 13 00-0188 EA 20" x 20" x 4" Disposable Pleated Air Filter, MERV 11.....	67.44	9.68
23 41 13 00-0189 EA 20" x 24" x 4" Disposable Pleated Air Filter, MERV 11.....	74.18	9.68
23 41 13 00-0190 EA 20" x 25" x 4" Disposable Pleated Air Filter, MERV 11.....	74.18	9.68
23 41 13 00-0191 EA 24" x 24" x 4" Disposable Pleated Air Filter, MERV 11.....	82.72	10.02
23 41 13 00-0192 EA 8" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.61	7.37
23 41 13 00-0193 EA 8" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.61	7.37
23 41 13 00-0194 EA 8" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.61	7.37
23 41 13 00-0195 EA 10" x 10" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.07	7.72
23 41 13 00-0196 EA 10" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	35.49	7.72
23 41 13 00-0197 EA 10" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.07	7.72
23 41 13 00-0198 EA 10" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.07	7.72
23 41 13 00-0199 EA 10" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.07	7.72
23 41 13 00-0200 EA 12" x 12" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	35.96	8.06
23 41 13 00-0201 EA 12" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.54	8.06
23 41 13 00-0202 EA 12" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	35.96	8.06
23 41 13 00-0203 EA 12" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	35.96	8.06
23 41 13 00-0204 EA 12" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.54	8.06
23 41 13 00-0205 EA 12" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.54	8.06
23 41 13 00-0206 EA 12" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	39.12	8.06
23 41 13 00-0207 EA 14" x 14" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.57	8.52
23 41 13 00-0208 EA 14" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.15	8.52
23 41 13 00-0209 EA 14" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.57	8.52
23 41 13 00-0210 EA 14" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.57	8.52
23 41 13 00-0211 EA 14" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.57	8.52
23 41 13 00-0212 EA 14" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.15	8.52
23 41 13 00-0213 EA 15" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	36.87	8.76
23 41 13 00-0214 EA 15" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.45	8.76
23 41 13 00-0215 EA 15" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.45	8.76
23 41 13 00-0216 EA 16" x 16" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.03	8.87
23 41 13 00-0217 EA 16" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.61	8.87
23 41 13 00-0218 EA 16" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.03	8.87
23 41 13 00-0219 EA 16" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.03	8.87
23 41 13 00-0220 EA 16" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	37.03	8.87
23 41 13 00-0221 EA 16" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.61	8.87
23 41 13 00-0222 EA 16" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13.....	38.61	8.87





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0223 EA 16" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	43.73	8.87
23 41 13 00-0224 EA 18" x 18" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	37.48	9.22
23 41 13 00-0225 EA 18" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	40.64	9.22
23 41 13 00-0226 EA 18" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	37.48	9.22
23 41 13 00-0227 EA 18" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	40.64	9.22
23 41 13 00-0228 EA 18" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	40.64	9.22
23 41 13 00-0229 EA 18" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	44.18	9.22
23 41 13 00-0230 EA 19" x 27" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	41.26	9.68
23 41 13 00-0231 EA 20" x 20" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	38.10	9.68
23 41 13 00-0232 EA 20" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	38.10	9.68
23 41 13 00-0233 EA 20" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	38.10	9.68
23 41 13 00-0234 EA 20" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	39.68	9.68
23 41 13 00-0235 EA 20" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	44.80	9.68
23 41 13 00-0236 EA 20" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	44.80	9.68
23 41 13 00-0237 EA 21" x 21" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	41.42	9.79
23 41 13 00-0238 EA 22" x 22" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	39.99	9.91
23 41 13 00-0239 EA 24" x 24" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	43.29	10.02
23 41 13 00-0240 EA 24" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	43.29	10.02
23 41 13 00-0241 EA 24" x 36" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	48.41	10.02
23 41 13 00-0242 EA 25" x 25" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	43.45	10.13
23 41 13 00-0243 EA 25" x 32" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	48.57	10.13
23 41 13 00-0244 EA 30" x 30" x 1" Disposable Pleated Electrostatically Charged Air Filter, MERV 13 .....	48.87	10.36
<b>23 41 13 00-0245 Carbon Vapor Trap, Disposable V-Bank Filter<sup>(23 41 13)</sup></b>		
23 41 13 00-0246 EA 24" x 24" x 12" Thick Carbon Vapor, Disposable V-Bank Filter .....	945.11	23.04
<b>23 41 13 00-0247 Electrostatic Air Filters With Frame, Element And Busbar<sup>(23 41 13)</sup></b>		
23 41 13 00-0248 MF3 Electrostatic Air Filter, High Efficiency Non-Supported With Frame, Element And Busbar .....	81.99	
23 41 13 00-0249 MF3 Electrostatic Air Filter, Medium Efficiency Non-Supported With Frame, Element And Busbar .....	79.19	
23 41 13 00-0250 MF3 Electrostatic Air Filter, Glass/Paper Throwaway With Frame, Element And Busbar .....	3.42	
<b>23 41 16 Renewable-Media Air Filters<sup>(23 41)</sup></b>		
<b>23 41 16 00-0001 Renewable-Media Electrostatic Air Filters With Frame, Element And Busbar<sup>(23 41 16)</sup></b>		
23 41 16 00-0002 MF3 Electrostatic Air Filter, 5' Disposable Roll Renewable With Frame, Element And Busbar .....	141.09	
<b>23 41 19 Washable Air Filters<sup>(23 41)</sup></b>		
<b>23 41 19 00-0001 Washable Electrostatic Air Filters With Frame, Element And Busbar<sup>(23 41 19)</sup></b>		
23 41 19 00-0002 MF3 Electrostatic Air Filter, Permanent, Washable With Frame, Element And Busbar .....	53.87	
<b>23 41 33 High-Efficiency Particulate Filtration<sup>(23 41)</sup></b>		
<b>23 41 33 00-0001 High Efficiency Particulate Air (HEPA) Filters<sup>(23 41 33)</sup></b>		
Note: Includes particle board and kraft paper frame and separator material. See CSI section 23 41 13 00-0000 for prefilters.		
<b>23 41 33 00-0002 High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-95%<sup>(23 41 33 00-0001)</sup></b>		
23 41 33 00-0003 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 150 CFM, Complete .....	149.85	21.50
<i>For Removal And Replacement In Existing Equipment, Add</i>		
<i>For &gt;10 To 25, Deduct</i>		
<i>For &gt;25 To 50, Deduct</i>		
<i>For &gt;50 To 100, Deduct</i>		
<i>For &gt;100, Deduct</i>		
23 41 33 00-0004 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 375 CFM, Complete .....	198.29	24.58
<i>For Removal And Replacement In Existing Equipment, Add</i>		
<i>For &gt;10 To 25, Deduct</i>		
<i>For &gt;25 To 50, Deduct</i>		
<i>For &gt;50 To 100, Deduct</i>		
<i>For &gt;100, Deduct</i>		
23 41 33 00-0005 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 450 CFM, Complete .....	231.99	28.42
<i>For Removal And Replacement In Existing Equipment, Add</i>		
<i>For &gt;10 To 25, Deduct</i>		
<i>For &gt;25 To 50, Deduct</i>		
<i>For &gt;50 To 100, Deduct</i>		
<i>For &gt;100, Deduct</i>		
23 41 33 00-0006 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 700 CFM, Complete .....	265.73	32.26
<i>For Removal And Replacement In Existing Equipment, Add</i>		
<i>For &gt;10 To 25, Deduct</i>		
<i>For &gt;25 To 50, Deduct</i>		
<i>For &gt;50 To 100, Deduct</i>		
<i>For &gt;100, Deduct</i>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 40 HVAC Air Cleaning Devices**

**23 41 Particulate Air Filtration**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 33 00-0007 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 250 CFM, Complete .....	181.84	23.04
For Removal And Replacement In Existing Equipment, Add	4.61	
For >10 To 25, Deduct	-4.55	
For >25 To 50, Deduct	-9.09	
For >50 To 100, Deduct	-13.64	
For >100, Deduct	-18.18	
23 41 33 00-0008 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 500 CFM, Complete .....	243.24	26.88
For Removal And Replacement In Existing Equipment, Add	5.38	
For >10 To 25, Deduct	-6.08	
For >25 To 50, Deduct	-12.16	
For >50 To 100, Deduct	-18.24	
For >100, Deduct	-24.32	
23 41 33 00-0009 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 875 CFM, Complete .....	290.41	30.72
For Removal And Replacement In Existing Equipment, Add	6.14	
For >10 To 25, Deduct	-7.26	
For >25 To 50, Deduct	-14.52	
For >50 To 100, Deduct	-21.78	
For >100, Deduct	-29.04	
23 41 33 00-0010 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 1,000 CFM, Complete.....	345.26	38.40
For Removal And Replacement In Existing Equipment, Add	7.68	
For >10 To 25, Deduct	-8.63	
For >25 To 50, Deduct	-17.26	
For >50 To 100, Deduct	-25.89	
For >100, Deduct	-34.53	
<b>23 41 33 00-0011 High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-99.99%</b> <small>(23 41 33 00-0001)</small>		
23 41 33 00-0012 EA 12" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....	128.57	19.20
For Removal And Replacement In Existing Equipment, Add	3.84	
For >10 To 25, Deduct	-3.21	
For >25 To 50, Deduct	-6.43	
For >50 To 100, Deduct	-9.64	
For >100, Deduct	-12.86	
23 41 33 00-0013 EA 24" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....	177.11	23.04
For Removal And Replacement In Existing Equipment, Add	4.61	
For >10 To 25, Deduct	-4.43	
For >25 To 50, Deduct	-8.86	
For >50 To 100, Deduct	-13.28	
For >100, Deduct	-17.71	
23 41 33 00-0014 EA 24" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....	269.06	26.88
For Removal And Replacement In Existing Equipment, Add	5.38	
For >10 To 25, Deduct	-6.73	
For >25 To 50, Deduct	-13.45	
For >50 To 100, Deduct	-20.18	
For >100, Deduct	-26.91	
23 41 33 00-0015 EA 36" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....	345.03	30.72
For Removal And Replacement In Existing Equipment, Add	6.14	
For >10 To 25, Deduct	-8.63	
For >25 To 50, Deduct	-17.25	
For >50 To 100, Deduct	-25.88	
For >100, Deduct	-34.50	
23 41 33 00-0016 EA 8" x 8" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete .....	120.81	15.36
For Removal And Replacement In Existing Equipment, Add	3.07	
For >10 To 25, Deduct	-3.02	
For >25 To 50, Deduct	-6.04	
For >50 To 100, Deduct	-9.06	
For >100, Deduct	-12.08	
23 41 33 00-0017 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 150 CFM, Complete .....	160.19	20.74
For Removal And Replacement In Existing Equipment, Add	4.15	
For >10 To 25, Deduct	-4.00	
For >25 To 50, Deduct	-8.01	
For >50 To 100, Deduct	-12.01	
For >100, Deduct	-16.02	
23 41 33 00-0018 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 325 CFM, Complete .....	214.86	24.58
For Removal And Replacement In Existing Equipment, Add	4.91	
For >10 To 25, Deduct	-5.37	
For >25 To 50, Deduct	-10.74	
For >50 To 100, Deduct	-16.11	
For >100, Deduct	-21.49	
23 41 33 00-0019 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 550 CFM, Complete .....	252.24	28.80
For Removal And Replacement In Existing Equipment, Add	5.76	
For >10 To 25, Deduct	-6.31	
For >25 To 50, Deduct	-12.61	
For >50 To 100, Deduct	-18.92	
For >100, Deduct	-25.22	
23 41 33 00-0020 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete .....	288.08	32.26
For Removal And Replacement In Existing Equipment, Add	6.45	
For >10 To 25, Deduct	-7.20	
For >25 To 50, Deduct	-14.40	
For >50 To 100, Deduct	-21.61	
For >100, Deduct	-28.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 33 00-0021 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 250 CFM, Complete .....	196.92	23.04
For Removal And Replacement In Existing Equipment, Add	4.61	
For >10 To 25, Deduct	-4.92	
For >25 To 50, Deduct	-9.85	
For >50 To 100, Deduct	-14.77	
For >100, Deduct	-19.69	
23 41 33 00-0022 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 500 CFM, Complete .....	264.30	26.88
For Removal And Replacement In Existing Equipment, Add	5.38	
For >10 To 25, Deduct	-6.61	
For >25 To 50, Deduct	-13.22	
For >50 To 100, Deduct	-19.82	
For >100, Deduct	-26.43	
23 41 33 00-0023 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete .....	315.85	30.72
For Removal And Replacement In Existing Equipment, Add	6.14	
For >10 To 25, Deduct	-7.90	
For >25 To 50, Deduct	-15.79	
For >50 To 100, Deduct	-23.69	
For >100, Deduct	-31.59	
23 41 33 00-0024 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 1,100 CFM, Complete .....	389.28	38.40
For Removal And Replacement In Existing Equipment, Add	7.68	
For >10 To 25, Deduct	-9.73	
For >25 To 50, Deduct	-19.46	
For >50 To 100, Deduct	-29.20	
For >100, Deduct	-38.93	

**23 41 33 00-0025 High Efficiency Particulate Air (HEPA) Filter Housings, 14 Gauge Galvanized Sheet Metal** (23 41 33)

Note: Nominal sizes.

23 41 33 00-0026 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	380.80	114.54
23 41 33 00-0027 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	713.51	227.68
23 41 33 00-0028 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	723.82	227.68
23 41 33 00-0029 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	730.69	227.68
23 41 33 00-0030 EA 24" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	778.76	227.68
23 41 33 00-0031 EA 24" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	838.86	227.68
23 41 33 00-0032 EA 48" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	1,385.81	456.77
23 41 33 00-0033 EA 48" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	1,531.76	456.77
23 41 33 00-0034 EA 48" x 96" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	1,717.19	456.77
23 41 33 00-0035 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	409.99	114.54
23 41 33 00-0036 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	763.31	227.68
23 41 33 00-0037 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	775.33	227.68
23 41 33 00-0038 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	783.91	227.68
23 41 33 00-0039 EA 24" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	840.57	227.68
23 41 33 00-0040 EA 24" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	916.12	227.68
23 41 33 00-0041 EA 48" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	1,506.00	456.77
23 41 33 00-0042 EA 48" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	1,688.00	456.77
23 41 33 00-0043 EA 48" x 96" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal .....	1,918.08	456.77

**23 41 33 00-0044 Filter, Bag Type, 90-95% Efficiency** (23 41 33)

23 41 33 00-0045 EA 0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 90 - 95% Efficiency .....	348.17	148.49
23 41 33 00-0046 EA 1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 90 - 95% Efficiency .....	396.21	148.49

**23 41 33 00-0047 Filter, Bag Type, 80-85% Efficiency** (23 41 33)

23 41 33 00-0048 EA 0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 80 - 85% Efficiency .....	342.65	148.49
23 41 33 00-0049 EA 1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 80 - 85% Efficiency .....	378.10	148.49

**23 42 Gas-Phase Air Filtration** (23 40)

**23 42 13 Activated-Carbon Air Filtration** (23 42)

23 42 13 00-0001 EA 12" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter .....	54.02	11.52
23 42 13 00-0002 EA 16" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter .....	54.62	11.52
23 42 13 00-0003 EA 16" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter .....	54.98	11.52
23 42 13 00-0004 EA 20" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter .....	54.98	11.52
23 42 13 00-0005 EA 20" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter .....	59.48	11.52
23 42 13 00-0006 EA 24" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter .....	66.89	11.52
23 42 13 00-0007 EA 12" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter .....	68.05	13.06
23 42 13 00-0008 EA 16" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter .....	68.55	13.06
23 42 13 00-0009 EA 16" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter .....	68.98	13.06
23 42 13 00-0010 EA 20" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter .....	68.98	13.06
23 42 13 00-0011 EA 20" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter .....	73.96	13.06
23 42 13 00-0012 EA 24" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter .....	87.83	13.06
23 42 13 00-0013 EA 16" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter .....	33.41	11.52
23 42 13 00-0014 EA 16" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter .....	35.56	11.52
23 42 13 00-0015 EA 20" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter .....	35.63	11.52
23 42 13 00-0016 EA 20" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter .....	38.44	11.52
23 42 13 00-0017 EA 24" x 24" x 1" Thick Carbon Impregnated Pleated Air Filter .....	40.93	11.52
23 42 13 00-0018 EA 16" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter .....	38.65	13.06
23 42 13 00-0019 EA 16" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter .....	42.39	13.06
23 42 13 00-0020 EA 20" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter .....	43.17	13.06

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 40 HVAC Air Cleaning Devices****23 42 Gas-Phase Air Filtration**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 42 13 00-0021 EA 20" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter.....	47.81	13.06
23 42 13 00-0022 EA 24" x 24" x 2" Thick Carbon Impregnated Pleated Air Filter.....	50.75	13.06
23 42 13 00-0023 EA 24" x 24" x 4" Thick Carbon Impregnated Pleated Air Filter.....	82.76	13.82

**23 43 Electronic Air Cleaners** (23 40)**23 43 23 Self-Contained Electronic Air Cleaners** (23 43)**23 43 23 00-0001 Stationary Floor, Room Air Purifier** (23 43 23)

23 43 23 00-0002 EA Stationary Floor Room Air Purifier, Up to 390 SF (Blueair Pro M) .....	1,121.26	
23 43 23 00-0003 EA Stationary Floor Room Air Purifier, Up to 780 SF (Blueair Pro L) .....	1,561.34	
23 43 23 00-0004 EA Stationary Floor Room Air Purifier, Up to 1,180 SF (Blueair Pro XL) .....	3,950.32	
23 43 23 00-0005 EA Stationary Floor Room Air Purifier, Up to 550 SF (Delos Compact) .....	883.95	
23 43 23 00-0006 EA Stationary Floor Room Air Purifier, Up to 1,125 SF (Delos 468 Ultrafine).....	1,591.22	
23 43 23 00-0007 EA Stationary Floor Room Air Purifier, Up to 3,500 SF (Delos 980P Commercial) .....	6,306.32	

**23 43 23 00-0008 Surface Mounted, Room Air Purifier** (23 43 23)

23 43 23 00-0009 EA Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F114A1067) .....	3,024.86	
23 43 23 00-0010 EA Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F115A1064) .....	4,161.91	
23 43 23 00-0011 EA Ceiling Mount Media Air Cleaner With 99.97% HEPA Filters (Honeywell F111A1063W-3S) .....	4,741.16	

**23 43 23 00-0012 Suspension Ceiling Mounted, Room Air Purifier** (23 43 23)

23 43 23 00-0013 EA 2' x 4' Suspension Ceiling Mounted, Air Purification System (Armstrong VidaShield UV24) .....	3,839.62	
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**23 50 Central Heating Equipment** (23)

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

**23 51 Breechings, Chimneys, and Stacks** (23 50)**23 51 13 Draft Control Devices** (23 51)**23 51 13 13 Draft-Induction Fans** (23 51 13)**23 51 13 13-0001 Vertical Discharge Fans** (23 51 13 13)

Note: Includes chimney adapter. Excludes wiring.

**23 51 13 13-0002 Axial Vane Vertical Discharge Fans** (23 51 13 13-0001)

23 51 13 13-0003 EA 450 CFM Vertical Discharge Chimney Fan, Axial Vane.....	3,558.81	311.11
23 51 13 13-0004 EA 950 CFM Vertical Discharge Chimney Fan, Axial Vane.....	4,029.90	339.39
23 51 13 13-0005 EA 1,400 CFM Vertical Discharge Chimney Fan, Axial Vane.....	4,826.05	374.75
23 51 13 13-0006 EA 1,800 CFM Vertical Discharge Chimney Fan, Axial Vane.....	6,288.04	434.86

**23 51 13 13-0007 Centrifugal Impeller Vertical Discharge Fans** (23 51 13 13-0001)

23 51 13 13-0008 EA 700 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	4,266.10	339.39
23 51 13 13-0009 EA 1,100 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	5,188.95	374.75
23 51 13 13-0010 EA 2,300 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	6,721.25	438.39
23 51 13 13-0011 EA 3,000 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller.....	7,950.10	491.42

**23 51 13 13-0012 Accessories For Vertical Discharge Fans** (23 51 13 13-0001)

23 51 13 13-0013 EA Modulating Fan Controller And Sensor.....	523.05	106.06
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**23 51 13 16 Vent Dampers** (23 51 13)**23 51 13 16-0001 Flue Shutter Draft Control Damper, Parallel Blade** (23 51 13 16)

23 51 13 16-0002 EA 3" Round Flue Shutter Draft Control Damper.....	1,042.04	62.79
23 51 13 16-0003 EA 4" Round Flue Shutter Draft Control Damper.....	1,141.47	66.61
23 51 13 16-0004 EA 5" Round Flue Shutter Draft Control Damper.....	1,258.80	70.70
23 51 13 16-0005 EA 6" Round Flue Shutter Draft Control Damper.....	1,344.82	75.40
23 51 13 16-0006 EA 7" Round Flue Shutter Draft Control Damper.....	1,467.50	80.78
23 51 13 16-0007 EA 8" Round Flue Shutter Draft Control Damper.....	1,559.52	86.98
23 51 13 16-0008 EA 10" Round Flue Shutter Draft Control Damper.....	1,723.30	94.30
23 51 13 16-0009 EA 12" Round Flue Shutter Draft Control Damper.....	1,891.95	102.84
23 51 13 16-0010 EA 14" Round Flue Shutter Draft Control Damper.....	2,114.29	107.83
23 51 13 16-0011 EA 16" Round Flue Shutter Draft Control Damper.....	2,269.99	113.13
23 51 13 16-0012 EA 18" Round Flue Shutter Draft Control Damper.....	2,477.68	118.79
23 51 13 16-0013 EA 20" Round Flue Shutter Draft Control Damper.....	2,956.58	188.08
23 51 13 16-0014 EA 22" Round Flue Shutter Draft Control Damper.....	3,238.92	199.75
23 51 13 16-0015 EA 24" Round Flue Shutter Draft Control Damper.....	3,507.43	212.12
23 51 13 16-0016 EA 26" Round Flue Shutter Draft Control Damper.....	3,569.01	219.20
23 51 13 16-0017 EA 28" Round Flue Shutter Draft Control Damper.....	3,681.50	226.27
23 51 13 16-0018 EA 30" Round Flue Shutter Draft Control Damper.....	3,788.60	240.41
23 51 13 16-0019 EA 32" Round Flue Shutter Draft Control Damper.....	3,951.76	247.32
23 51 13 16-0020 EA 34" Round Flue Shutter Draft Control Damper.....	4,125.58	261.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 13 16-0021 EA 36" Round Flue Shutter Draft Control Damper .....	4,328.52	282.83
23 51 13 16-0022 EA 38" Round Flue Shutter Draft Control Damper .....	4,544.98	292.55
23 51 13 16-0023 EA 40" Round Flue Shutter Draft Control Damper .....	4,742.10	296.97
23 51 13 16-0024 EA 42" Round Flue Shutter Draft Control Damper .....	4,974.78	311.11
23 51 13 16-0025 EA 44" Round Flue Shutter Draft Control Damper .....	5,208.74	325.25
23 51 13 16-0026 EA 46" Round Flue Shutter Draft Control Damper .....	5,443.33	339.39
23 51 13 16-0027 EA 48" Round Flue Shutter Draft Control Damper .....	5,676.97	353.53

**23 51 13 19 Barometric Dampers (23 51 13)**

**23 51 13 19-0001 Barometric Dampers (23 51 13 19)**

23 51 13 19-0002 EA 6" x 6" Barometric Damper .....	469.63	12.28
23 51 13 19-0003 EA 12" x 12" Barometric Damper .....	678.62	16.87
23 51 13 19-0004 EA 18" x 18" Barometric Damper .....	912.40	26.08
23 51 13 19-0005 EA 24" x 24" Barometric Damper .....	1,105.22	49.09
23 51 13 19-0006 EA 6" Diameter Barometric Damper .....	234.93	12.28
For Stainless Steel, Add	243.52	
23 51 13 19-0007 EA 7" Diameter Barometric Damper .....	277.77	13.80
For Stainless Steel, Add	289.30	
23 51 13 19-0008 EA 8" Diameter Barometric Damper .....	322.30	15.34
For Stainless Steel, Add	335.50	
23 51 13 19-0009 EA 9" Diameter Barometric Damper .....	394.41	15.34
For Stainless Steel, Add	425.00	
23 51 13 19-0010 EA 10" Diameter Barometric Damper .....	516.20	18.41
For Stainless Steel, Add	579.02	
23 51 13 19-0011 EA 12" Diameter Barometric Damper .....	653.34	19.94
For Stainless Steel, Add	746.77	
23 51 13 19-0012 EA 14" Diameter Barometric Damper .....	818.91	21.48
For Stainless Steel, Add	952.41	
23 51 13 19-0013 EA 15" Diameter Barometric Damper .....	975.76	23.01
For Stainless Steel, Add	1,144.72	
23 51 13 19-0014 EA 16" Diameter Barometric Damper .....	1,130.42	26.08
For Stainless Steel, Add	1,336.61	
23 51 13 19-0015 EA 18" Diameter Barometric Damper .....	1,484.11	27.61
For Stainless Steel, Add	1,785.76	
23 51 13 19-0016 EA 20" Diameter Barometric Damper .....	1,764.28	30.68
For Stainless Steel, Add	2,137.50	
23 51 13 19-0017 EA 24" Diameter Barometric Damper .....	2,123.56	30.68
For Stainless Steel, Add	2,597.47	
23 51 13 19-0018 EA 30" Diameter Barometric Damper .....	2,614.81	35.28
For Stainless Steel, Add	3,219.78	
23 51 13 19-0019 EA 36" Diameter Barometric Damper .....	3,329.72	36.82
For Stainless Steel, Add	4,139.71	

**23 51 16 Fabricated Breechings and Accessories (23 51)**

**23 51 16 00-0001 Round Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)**

**23 51 16 00-0002 Round Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0001)**

23 51 16 00-0003 LF 3" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe .....	37.86	12.58
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.36	
For 304 Stainless Steel Liner, Add	0.49	
For 2" Wall Instead Of 1", Add	5.08	
For 3" To 4" Wall Instead Of 1", Add	9.19	
23 51 16 00-0004 LF 4" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe .....	40.37	13.30
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.44	
For 304 Stainless Steel Liner, Add	0.59	
For 2" Wall Instead Of 1", Add	5.62	
For 3" To 4" Wall Instead Of 1", Add	10.06	
23 51 16 00-0005 LF 5" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe .....	44.39	14.14
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.52	
For 304 Stainless Steel Liner, Add	0.71	
For 2" Wall Instead Of 1", Add	6.32	
For 3" To 4" Wall Instead Of 1", Add	11.23	
23 51 16 00-0006 LF 6" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe .....	48.21	15.14
Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.60	
For 304 Stainless Steel Liner, Add	0.82	
For 2" Wall Instead Of 1", Add	7.01	
For 3" To 4" Wall Instead Of 1", Add	12.37	
23 51 16 00-0007 LF 7" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe .....	55.63	16.12
Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
For Aluminum Liner, Add	0.88	
For 304 Stainless Steel Liner, Add	1.21	
For 2" Wall Instead Of 1", Add	8.78	
For 3" To 4" Wall Instead Of 1", Add	15.15	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0008	LF		8" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	61.82	17.40
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	0.99	
			For 304 Stainless Steel Liner, Add	1.34	
			For 2" Wall Instead Of 1", Add	9.76	
			For 3" To 4" Wall Instead Of 1", Add	16.84	
23 51 16 00-0009	LF		10" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	85.29	18.67
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	2.08	
			For 304 Stainless Steel Liner, Add	2.84	
			For 2" Wall Instead Of 1", Add	16.09	
			For 3" To 4" Wall Instead Of 1", Add	26.51	
23 51 16 00-0010	LF		12" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	102.22	20.65
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	2.79	
			For 304 Stainless Steel Liner, Add	3.81	
			For 2" Wall Instead Of 1", Add	20.37	
			For 3" To 4" Wall Instead Of 1", Add	33.13	
23 51 16 00-0011	LF		14" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	139.10	21.49
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	4.69	
			For 304 Stainless Steel Liner, Add	6.39	
			For 2" Wall Instead Of 1", Add	30.95	
			For 3" To 4" Wall Instead Of 1", Add	49.13	
23 51 16 00-0012	LF		16" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	171.21	22.63
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	6.32	
			For 304 Stainless Steel Liner, Add	8.62	
			For 2" Wall Instead Of 1", Add	40.10	
			For 3" To 4" Wall Instead Of 1", Add	62.97	
23 51 16 00-0013	LF		18" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	208.43	23.76
			Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	8.16	
			For 304 Stainless Steel Liner, Add	11.13	
			For 2" Wall Instead Of 1", Add	50.53	
			For 3" To 4" Wall Instead Of 1", Add	78.79	
23 51 16 00-0014	LF		20" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	269.34	37.75
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	9.69	
			For 304 Stainless Steel Liner, Add	13.21	
			For 2" Wall Instead Of 1", Add	62.17	
			For 3" To 4" Wall Instead Of 1", Add	97.91	
23 51 16 00-0015	LF		22" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	322.78	39.88
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	12.22	
			For 304 Stainless Steel Liner, Add	16.66	
			For 2" Wall Instead Of 1", Add	76.71	
			For 3" To 4" Wall Instead Of 1", Add	120.09	
23 51 16 00-0016	LF		24" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	380.77	42.42
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	15.06	
			For 304 Stainless Steel Liner, Add	20.54	
			For 2" Wall Instead Of 1", Add	92.85	
			For 3" To 4" Wall Instead Of 1", Add	144.62	
23 51 16 00-0017	LF		26" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	438.84	43.84
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	18.12	
			For 304 Stainless Steel Liner, Add	24.70	
			For 2" Wall Instead Of 1", Add	109.76	
			For 3" To 4" Wall Instead Of 1", Add	170.12	
23 51 16 00-0018	LF		28" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	459.71	45.26
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	19.06	
			For 304 Stainless Steel Liner, Add	26.00	
			For 2" Wall Instead Of 1", Add	115.30	
			For 3" To 4" Wall Instead Of 1", Add	178.60	
23 51 16 00-0019	LF		30" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	488.77	48.51
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	20.22	
			For 304 Stainless Steel Liner, Add	27.58	
			For 2" Wall Instead Of 1", Add	122.42	
			For 3" To 4" Wall Instead Of 1", Add	189.68	
23 51 16 00-0020	LF		32" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	550.73	50.35
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	23.38	
			For 304 Stainless Steel Liner, Add	31.89	
			For 2" Wall Instead Of 1", Add	140.10	
			For 3" To 4" Wall Instead Of 1", Add	216.43	
23 51 16 00-0021	LF		34" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	614.92	52.18
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	26.65	
			For 304 Stainless Steel Liner, Add	36.34	
			For 2" Wall Instead Of 1", Add	158.39	
			For 3" To 4" Wall Instead Of 1", Add	244.11	
23 51 16 00-0022	LF		36" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	646.93	54.30
			Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness		
			For Aluminum Liner, Add	28.12	
			For 304 Stainless Steel Liner, Add	38.35	
			For 2" Wall Instead Of 1", Add	166.96	
			For 3" To 4" Wall Instead Of 1", Add	257.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0023 LF 38" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	700.43	56.56
<i>For Aluminum Liner, Add</i>	30.76	
<i>For 304 Stainless Steel Liner, Add</i>	41.94	
<i>For 2" Wall Instead Of 1", Add</i>	181.88	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	279.88	
23 51 16 00-0024 LF 40" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	769.88	58.97
<i>For Aluminum Liner, Add</i>	34.23	
<i>For 304 Stainless Steel Liner, Add</i>	46.68	
<i>For 2" Wall Instead Of 1", Add</i>	201.47	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	309.57	
23 51 16 00-0025 LF 42" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	805.44	61.66
<i>For Aluminum Liner, Add</i>	35.81	
<i>For 304 Stainless Steel Liner, Add</i>	48.83	
<i>For 2" Wall Instead Of 1", Add</i>	210.77	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	323.87	
23 51 16 00-0026 LF 44" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	889.37	64.63
<i>For Aluminum Liner, Add</i>	40.02	
<i>For 304 Stainless Steel Liner, Add</i>	54.58	
<i>For 2" Wall Instead Of 1", Add</i>	234.48	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	359.80	
23 51 16 00-0027 LF 46" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	964.48	67.88
<i>For Aluminum Liner, Add</i>	43.71	
<i>For 304 Stainless Steel Liner, Add</i>	59.61	
<i>For 2" Wall Instead Of 1", Add</i>	255.40	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	391.58	
23 51 16 00-0028 LF 48" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	1,059.20	71.42
<i>For Aluminum Liner, Add</i>	48.45	
<i>For 304 Stainless Steel Liner, Add</i>	66.07	
<i>For 2" Wall Instead Of 1", Add</i>	282.10	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	432.07	
<b>23 51 16 00-0029 90 Degree Elbows</b> <small>(23 51 16 00-0001)</small>		
23 51 16 00-0030 EA 3" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	92.02	25.17
<i>For Aluminum Liner, Add</i>	1.63	
<i>For 304 Stainless Steel Liner, Add</i>	2.23	
<i>For 2" Wall Instead Of 1", Add</i>	15.14	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	25.82	
23 51 16 00-0031 EA 4" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	101.33	26.58
<i>For Aluminum Liner, Add</i>	1.93	
<i>For 304 Stainless Steel Liner, Add</i>	2.63	
<i>For 2" Wall Instead Of 1", Add</i>	17.14	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	29.02	
23 51 16 00-0032 EA 5" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	112.19	28.28
<i>For Aluminum Liner, Add</i>	2.30	
<i>For 304 Stainless Steel Liner, Add</i>	3.14	
<i>For 2" Wall Instead Of 1", Add</i>	19.58	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	32.89	
23 51 16 00-0033 EA 6" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	123.40	30.12
<i>For Aluminum Liner, Add</i>	2.67	
<i>For 304 Stainless Steel Liner, Add</i>	3.64	
<i>For 2" Wall Instead Of 1", Add</i>	22.06	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	36.83	
23 51 16 00-0034 EA 7" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	145.14	32.24
<i>For Aluminum Liner, Add</i>	3.57	
<i>For 304 Stainless Steel Liner, Add</i>	4.87	
<i>For 2" Wall Instead Of 1", Add</i>	27.51	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	45.28	
23 51 16 00-0035 EA 8" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	168.37	34.79
<i>For Aluminum Liner, Add</i>	4.48	
<i>For 304 Stainless Steel Liner, Add</i>	6.10	
<i>For 2" Wall Instead Of 1", Add</i>	33.12	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	54.02	
23 51 16 00-0036 EA 10" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	281.76	37.75
<i>For Aluminum Liner, Add</i>	10.30	
<i>For 304 Stainless Steel Liner, Add</i>	14.04	
<i>For 2" Wall Instead Of 1", Add</i>	65.62	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	103.15	
23 51 16 00-0037 EA 12" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	338.84	41.15
<i>For Aluminum Liner, Add</i>	12.98	
<i>For 304 Stainless Steel Liner, Add</i>	17.70	
<i>For 2" Wall Instead Of 1", Add</i>	81.09	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	126.78	
23 51 16 00-0038 EA 14" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	434.12	43.14
<i>For Aluminum Liner, Add</i>	17.95	
<i>For 304 Stainless Steel Liner, Add</i>	24.48	
<i>For 2" Wall Instead Of 1", Add</i>	108.69	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	168.42	
23 51 16 00-0039 EA 16" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	529.62	45.26
<i>For Aluminum Liner, Add</i>	22.92	
<i>For 304 Stainless Steel Liner, Add</i>	31.25	
<i>For 2" Wall Instead Of 1", Add</i>	136.30	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	210.10	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0040	EA		18" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	679.16	47.66
			<i>For Aluminum Liner, Add</i>	30.80	
			<i>For 304 Stainless Steel Liner, Add</i>	42.00	
			<i>For 2" Wall Instead Of 1", Add</i>	179.91	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	275.82	
23 51 16 00-0041	EA		20" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	961.85	75.37
			<i>For Aluminum Liner, Add</i>	42.53	
			<i>For 304 Stainless Steel Liner, Add</i>	57.99	
			<i>For 2" Wall Instead Of 1", Add</i>	250.83	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	385.67	
23 51 16 00-0042	EA		22" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,257.80	79.89
			<i>For Aluminum Liner, Add</i>	58.19	
			<i>For 304 Stainless Steel Liner, Add</i>	79.35	
			<i>For 2" Wall Instead Of 1", Add</i>	337.39	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	516.08	
23 51 16 00-0043	EA		24" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,416.91	84.85
			<i>For Aluminum Liner, Add</i>	66.25	
			<i>For 304 Stainless Steel Liner, Add</i>	90.34	
			<i>For 2" Wall Instead Of 1", Add</i>	382.61	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	584.52	
<b>23 51 16 00-0044 45 Degree Elbows <small>(23 51 16 00-0001)</small></b>					
23 51 16 00-0045	EA		3" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	79.88	25.17
			<i>For Aluminum Liner, Add</i>	0.94	
			<i>For 304 Stainless Steel Liner, Add</i>	1.28	
			<i>For 2" Wall Instead Of 1", Add</i>	11.41	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	20.25	
23 51 16 00-0046	EA		4" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	86.75	26.58
			<i>For Aluminum Liner, Add</i>	1.11	
			<i>For 304 Stainless Steel Liner, Add</i>	1.51	
			<i>For 2" Wall Instead Of 1", Add</i>	12.70	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	22.39	
23 51 16 00-0047	EA		5" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	94.42	28.28
			<i>For Aluminum Liner, Add</i>	1.30	
			<i>For 304 Stainless Steel Liner, Add</i>	1.78	
			<i>For 2" Wall Instead Of 1", Add</i>	14.18	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	24.81	
23 51 16 00-0048	EA		6" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	103.78	30.12
			<i>For Aluminum Liner, Add</i>	1.56	
			<i>For 304 Stainless Steel Liner, Add</i>	2.13	
			<i>For 2" Wall Instead Of 1", Add</i>	16.05	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	27.85	
23 51 16 00-0049	EA		7" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	121.46	32.24
			<i>For Aluminum Liner, Add</i>	2.24	
			<i>For 304 Stainless Steel Liner, Add</i>	3.05	
			<i>For 2" Wall Instead Of 1", Add</i>	20.28	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	34.46	
23 51 16 00-0050	EA		8" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	133.78	34.79
			<i>For Aluminum Liner, Add</i>	2.57	
			<i>For 304 Stainless Steel Liner, Add</i>	3.51	
			<i>For 2" Wall Instead Of 1", Add</i>	22.74	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	38.46	
23 51 16 00-0051	EA		10" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	211.30	37.75
			<i>For Aluminum Liner, Add</i>	6.44	
			<i>For 304 Stainless Steel Liner, Add</i>	8.78	
			<i>For 2" Wall Instead Of 1", Add</i>	44.53	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	71.51	
23 51 16 00-0052	EA		12" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	250.36	41.15
			<i>For Aluminum Liner, Add</i>	8.11	
			<i>For 304 Stainless Steel Liner, Add</i>	11.06	
			<i>For 2" Wall Instead Of 1", Add</i>	54.54	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	86.95	
23 51 16 00-0053	EA		14" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	315.32	43.14
			<i>For Aluminum Liner, Add</i>	11.41	
			<i>For 304 Stainless Steel Liner, Add</i>	15.57	
			<i>For 2" Wall Instead Of 1", Add</i>	73.04	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	114.95	
23 51 16 00-0054	EA		16" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	373.54	45.26
			<i>For Aluminum Liner, Add</i>	14.32	
			<i>For 304 Stainless Steel Liner, Add</i>	19.53	
			<i>For 2" Wall Instead Of 1", Add</i>	89.44	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	139.82	
23 51 16 00-0055	EA		18" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	469.06	47.66
			<i>For Aluminum Liner, Add</i>	19.25	
			<i>For 304 Stainless Steel Liner, Add</i>	26.25	
			<i>For 2" Wall Instead Of 1", Add</i>	116.90	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	181.31	
23 51 16 00-0056	EA		20" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	582.79	75.23
			<i>For Aluminum Liner, Add</i>	21.71	
			<i>For 304 Stainless Steel Liner, Add</i>	29.61	
			<i>For 2" Wall Instead Of 1", Add</i>	137.23	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	215.24	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0057 EA 22" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	793.88	79.89
For Aluminum Liner, Add	32.68	
For 304 Stainless Steel Liner, Add	44.56	
For 2" Wall Instead Of 1", Add	198.22	
For 3" To 4" Wall Instead Of 1", Add	307.31	
23 51 16 00-0058 EA 24" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	964.84	84.85
For Aluminum Liner, Add	41.41	
For 304 Stainless Steel Liner, Add	56.46	
For 2" Wall Instead Of 1", Add	247.05	
For 3" To 4" Wall Instead Of 1", Add	381.18	
23 51 16 00-0059 EA 26" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	1,704.42	87.68
For Aluminum Liner, Add	81.69	
For 304 Stainless Steel Liner, Add	111.40	
For 2" Wall Instead Of 1", Add	467.51	
For 3" To 4" Wall Instead Of 1", Add	712.22	
23 51 16 00-0060 EA 28" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	1,752.17	90.51
For Aluminum Liner, Add	83.93	
For 304 Stainless Steel Liner, Add	114.45	
For 2" Wall Instead Of 1", Add	480.43	
For 3" To 4" Wall Instead Of 1", Add	731.95	
23 51 16 00-0061 EA 30" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	1,847.70	96.16
For Aluminum Liner, Add	88.41	
For 304 Stainless Steel Liner, Add	120.56	
For 2" Wall Instead Of 1", Add	506.26	
For 3" To 4" Wall Instead Of 1", Add	771.40	
23 51 16 00-0062 EA 32" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	2,058.24	98.99
For Aluminum Liner, Add	99.60	
For 304 Stainless Steel Liner, Add	135.82	
For 2" Wall Instead Of 1", Add	568.01	
For 3" To 4" Wall Instead Of 1", Add	864.38	
23 51 16 00-0063 EA 34" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	2,245.32	104.65
For Aluminum Liner, Add	109.11	
For 304 Stainless Steel Liner, Add	148.79	
For 2" Wall Instead Of 1", Add	621.31	
For 3" To 4" Wall Instead Of 1", Add	945.03	
23 51 16 00-0064 EA 36" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	2,317.39	113.13
For Aluminum Liner, Add	111.91	
For 304 Stainless Steel Liner, Add	152.61	
For 2" Wall Instead Of 1", Add	638.69	
For 3" To 4" Wall Instead Of 1", Add	972.16	
23 51 16 00-0065 EA 38" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	2,479.89	117.09
For Aluminum Liner, Add	120.30	
For 304 Stainless Steel Liner, Add	164.05	
For 2" Wall Instead Of 1", Add	685.46	
For 3" To 4" Wall Instead Of 1", Add	1,042.81	
23 51 16 00-0066 EA 40" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	2,636.74	118.79
For Aluminum Liner, Add	128.70	
For 304 Stainless Steel Liner, Add	175.50	
For 2" Wall Instead Of 1", Add	731.66	
For 3" To 4" Wall Instead Of 1", Add	1,112.34	
23 51 16 00-0067 EA 42" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	2,752.60	124.45
For Aluminum Liner, Add	134.29	
For 304 Stainless Steel Liner, Add	183.13	
For 2" Wall Instead Of 1", Add	763.60	
For 3" To 4" Wall Instead Of 1", Add	1,160.94	
23 51 16 00-0068 EA 44" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	2,919.32	130.10
For Aluminum Liner, Add	142.69	
For 304 Stainless Steel Liner, Add	194.57	
For 2" Wall Instead Of 1", Add	810.79	
For 3" To 4" Wall Instead Of 1", Add	1,232.44	
23 51 16 00-0069 EA 46" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	3,136.93	135.76
For Aluminum Liner, Add	153.88	
For 304 Stainless Steel Liner, Add	209.83	
For 2" Wall Instead Of 1", Add	873.25	
For 3" To 4" Wall Instead Of 1", Add	1,326.83	
23 51 16 00-0070 EA 48" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe .....	3,252.79	141.41
For Aluminum Liner, Add	159.47	
For 304 Stainless Steel Liner, Add	217.46	
For 2" Wall Instead Of 1", Add	905.18	
For 3" To 4" Wall Instead Of 1", Add	1,375.43	
<b>23 51 16 00-0071 Tees</b> <small>(23 51 16 00-0001)</small>		
23 51 16 00-0072 EA 3" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	125.63	33.51
For Aluminum Liner, Add	2.29	
For 304 Stainless Steel Liner, Add	3.13	
For 2" Wall Instead Of 1", Add	20.91	
For 3" To 4" Wall Instead Of 1", Add	35.55	
23 51 16 00-0073 EA 4" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	130.73	34.79
For Aluminum Liner, Add	2.41	
For 304 Stainless Steel Liner, Add	3.28	
For 2" Wall Instead Of 1", Add	21.82	
For 3" To 4" Wall Instead Of 1", Add	37.08	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0074	EA		5" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	136.30	36.21
			<i>For Aluminum Liner, Add</i>	2.52	
			<i>For 304 Stainless Steel Liner, Add</i>	3.43	
			<i>For 2" Wall Instead Of 1", Add</i>	22.79	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	38.71	
23 51 16 00-0075	EA		6" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	145.20	37.75
			<i>For Aluminum Liner, Add</i>	2.80	
			<i>For 304 Stainless Steel Liner, Add</i>	3.82	
			<i>For 2" Wall Instead Of 1", Add</i>	24.69	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	41.76	
23 51 16 00-0076	EA		7" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	168.62	39.31
			<i>For Aluminum Liner, Add</i>	3.86	
			<i>For 304 Stainless Steel Liner, Add</i>	5.27	
			<i>For 2" Wall Instead Of 1", Add</i>	30.90	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	51.27	
23 51 16 00-0077	EA		8" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	180.13	41.15
			<i>For Aluminum Liner, Add</i>	4.25	
			<i>For 304 Stainless Steel Liner, Add</i>	5.80	
			<i>For 2" Wall Instead Of 1", Add</i>	33.48	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	55.36	
23 51 16 00-0078	EA		10" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	317.33	43.14
			<i>For Aluminum Liner, Add</i>	11.53	
			<i>For 304 Stainless Steel Liner, Add</i>	15.72	
			<i>For 2" Wall Instead Of 1", Add</i>	73.65	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	115.86	
23 51 16 00-0079	EA		12" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	365.40	45.26
			<i>For Aluminum Liner, Add</i>	13.88	
			<i>For 304 Stainless Steel Liner, Add</i>	18.92	
			<i>For 2" Wall Instead Of 1", Add</i>	87.00	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	136.16	
23 51 16 00-0080	EA		14" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	536.70	50.35
			<i>For Aluminum Liner, Add</i>	22.61	
			<i>For 304 Stainless Steel Liner, Add</i>	30.83	
			<i>For 2" Wall Instead Of 1", Add</i>	135.87	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	210.10	
23 51 16 00-0081	EA		16" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	723.29	56.56
			<i>For Aluminum Liner, Add</i>	32.01	
			<i>For 304 Stainless Steel Liner, Add</i>	43.65	
			<i>For 2" Wall Instead Of 1", Add</i>	188.72	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	290.14	
23 51 16 00-0082	EA		18" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	894.09	64.63
			<i>For Aluminum Liner, Add</i>	40.29	
			<i>For 304 Stainless Steel Liner, Add</i>	54.94	
			<i>For 2" Wall Instead Of 1", Add</i>	235.91	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	361.95	
23 51 16 00-0083	EA		20" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,186.37	79.89
			<i>For Aluminum Liner, Add</i>	54.28	
			<i>For 304 Stainless Steel Liner, Add</i>	74.01	
			<i>For 2" Wall Instead Of 1", Add</i>	316.01	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	483.99	
23 51 16 00-0084	EA		22" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,491.94	104.36
			<i>For Aluminum Liner, Add</i>	67.71	
			<i>For 304 Stainless Steel Liner, Add</i>	92.33	
			<i>For 2" Wall Instead Of 1", Add</i>	395.40	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	606.14	
23 51 16 00-0085	EA		24" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	1,710.26	110.31
			<i>For Aluminum Liner, Add</i>	78.90	
			<i>For 304 Stainless Steel Liner, Add</i>	107.59	
			<i>For 2" Wall Instead Of 1", Add</i>	457.92	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	700.67	
23 51 16 00-0086	EA		26" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,331.83	118.79
			<i>For Aluminum Liner, Add</i>	111.91	
			<i>For 304 Stainless Steel Liner, Add</i>	152.61	
			<i>For 2" Wall Instead Of 1", Add</i>	640.13	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	975.05	
23 51 16 00-0087	EA		28" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,597.58	123.45
			<i>For Aluminum Liner, Add</i>	125.90	
			<i>For 304 Stainless Steel Liner, Add</i>	171.68	
			<i>For 2" Wall Instead Of 1", Add</i>	717.57	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,091.79	
23 51 16 00-0088	EA		30" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	2,817.80	130.10
			<i>For Aluminum Liner, Add</i>	137.09	
			<i>For 304 Stainless Steel Liner, Add</i>	186.94	
			<i>For 2" Wall Instead Of 1", Add</i>	780.29	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,186.70	
23 51 16 00-0089	EA		32" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,238.79	135.76
			<i>For Aluminum Liner, Add</i>	159.47	
			<i>For 304 Stainless Steel Liner, Add</i>	217.46	
			<i>For 2" Wall Instead Of 1", Add</i>	903.78	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,372.63	
23 51 16 00-0090	EA		34" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,303.90	141.41
			<i>For Aluminum Liner, Add</i>	162.27	
			<i>For 304 Stainless Steel Liner, Add</i>	221.28	
			<i>For 2" Wall Instead Of 1", Add</i>	920.46	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,398.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0091 EA 36" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,836.37	150.89
<i>For Aluminum Liner, Add</i>	190.25	
<i>For 304 Stainless Steel Liner, Add</i>	259.43	
<i>For 2" Wall Instead Of 1", Add</i>	1,075.45	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,632.04	
23 51 16 00-0092 EA 38" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	3,934.34	169.70
<i>For Aluminum Liner, Add</i>	193.05	
<i>For 304 Stainless Steel Liner, Add</i>	263.24	
<i>For 2" Wall Instead Of 1", Add</i>	1,095.42	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,664.35	
23 51 16 00-0093 EA 40" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,300.10	194.02
<i>For Aluminum Liner, Add</i>	209.83	
<i>For 304 Stainless Steel Liner, Add</i>	286.14	
<i>For 2" Wall Instead Of 1", Add</i>	1,193.04	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,813.81	
23 51 16 00-0094 EA 42" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	4,736.88	226.27
<i>For Aluminum Liner, Add</i>	229.42	
<i>For 304 Stainless Steel Liner, Add</i>	312.84	
<i>For 2" Wall Instead Of 1", Add</i>	1,307.93	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,990.18	
23 51 16 00-0095 EA 44" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	5,163.15	254.55
<i>For Aluminum Liner, Add</i>	249.00	
<i>For 304 Stainless Steel Liner, Add</i>	339.55	
<i>For 2" Wall Instead Of 1", Add</i>	1,421.77	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	2,164.45	
23 51 16 00-0096 EA 46" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	5,642.24	263.03
<i>For Aluminum Liner, Add</i>	274.18	
<i>For 304 Stainless Steel Liner, Add</i>	373.88	
<i>For 2" Wall Instead Of 1", Add</i>	1,561.25	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	2,374.73	
23 51 16 00-0097 EA 48" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....	5,968.89	271.52
<i>For Aluminum Liner, Add</i>	290.97	
<i>For 304 Stainless Steel Liner, Add</i>	396.77	
<i>For 2" Wall Instead Of 1", Add</i>	1,654.95	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	2,516.36	
<b>23 51 16 00-0098 Vent Top Caps (23 51 16 00-0001)</b>		
23 51 16 00-0099 EA 3" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....	64.96	19.65
<i>For Aluminum Liner, Add</i>	0.87	
<i>For 304 Stainless Steel Liner, Add</i>	1.18	
<i>For 2" Wall Instead Of 1", Add</i>	9.65	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	16.93	
23 51 16 00-0100 EA 4" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....	68.05	20.65
<i>For Aluminum Liner, Add</i>	0.91	
<i>For 304 Stainless Steel Liner, Add</i>	1.24	
<i>For 2" Wall Instead Of 1", Add</i>	10.12	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	17.76	
23 51 16 00-0101 EA 6" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....	85.35	22.63
<i>For Aluminum Liner, Add</i>	1.58	
<i>For 304 Stainless Steel Liner, Add</i>	2.16	
<i>For 2" Wall Instead Of 1", Add</i>	14.29	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	24.27	
23 51 16 00-0102 EA 8" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....	91.58	25.17
<i>For Aluminum Liner, Add</i>	1.58	
<i>For 304 Stainless Steel Liner, Add</i>	2.16	
<i>For 2" Wall Instead Of 1", Add</i>	14.92	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	25.51	
23 51 16 00-0103 EA 10" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....	108.89	26.58
<i>For Aluminum Liner, Add</i>	2.33	
<i>For 304 Stainless Steel Liner, Add</i>	3.18	
<i>For 2" Wall Instead Of 1", Add</i>	19.37	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	32.38	
23 51 16 00-0104 EA 12" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....	126.66	28.28
<i>For Aluminum Liner, Add</i>	3.08	
<i>For 304 Stainless Steel Liner, Add</i>	4.20	
<i>For 2" Wall Instead Of 1", Add</i>	23.86	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	39.32	
23 51 16 00-0105 EA 16" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....	277.10	32.24
<i>For Aluminum Liner, Add</i>	10.80	
<i>For 304 Stainless Steel Liner, Add</i>	14.73	
<i>For 2" Wall Instead Of 1", Add</i>	66.98	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	104.51	
23 51 16 00-0106 EA 18" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....	503.86	40.44
<i>For Aluminum Liner, Add</i>	22.16	
<i>For 304 Stainless Steel Liner, Add</i>	30.22	
<i>For 2" Wall Instead Of 1", Add</i>	130.96	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	201.49	
23 51 16 00-0107 EA 20" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe .....	914.75	48.51
<i>For Aluminum Liner, Add</i>	43.65	
<i>For 304 Stainless Steel Liner, Add</i>	59.52	
<i>For 2" Wall Instead Of 1", Add</i>	250.19	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	381.34	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0108	EA		24" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	1,512.66	67.88
			<i>For Aluminum Liner, Add</i>	73.86	
			<i>For 304 Stainless Steel Liner, Add</i>	100.72	
			<i>For 2" Wall Instead Of 1", Add</i>	419.85	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	638.26	
23 51 16 00-0109	EA		26" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	2,213.30	71.42
			<i>For Aluminum Liner, Add</i>	111.91	
			<i>For 304 Stainless Steel Liner, Add</i>	152.61	
			<i>For 2" Wall Instead Of 1", Add</i>	628.28	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	951.35	
23 51 16 00-0110	EA		28" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	2,477.63	75.37
			<i>For Aluminum Liner, Add</i>	125.90	
			<i>For 304 Stainless Steel Liner, Add</i>	171.68	
			<i>For 2" Wall Instead Of 1", Add</i>	705.58	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,067.80	
23 51 16 00-0111	EA		30" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	2,794.03	79.89
			<i>For Aluminum Liner, Add</i>	142.69	
			<i>For 304 Stainless Steel Liner, Add</i>	194.57	
			<i>For 2" Wall Instead Of 1", Add</i>	798.26	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,207.38	
23 51 16 00-0112	EA		32" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	2,959.11	84.85
			<i>For Aluminum Liner, Add</i>	151.08	
			<i>For 304 Stainless Steel Liner, Add</i>	206.02	
			<i>For 2" Wall Instead Of 1", Add</i>	845.29	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,278.55	
23 51 16 00-0113	EA		34" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	3,125.84	90.51
			<i>For Aluminum Liner, Add</i>	159.47	
			<i>For 304 Stainless Steel Liner, Add</i>	217.46	
			<i>For 2" Wall Instead Of 1", Add</i>	892.48	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,350.04	
23 51 16 00-0114	EA		36" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	3,345.30	97.01
			<i>For Aluminum Liner, Add</i>	170.66	
			<i>For 304 Stainless Steel Liner, Add</i>	232.72	
			<i>For 2" Wall Instead Of 1", Add</i>	955.13	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,444.81	
<b>23 51 16 00-0115</b>			<b>Wall Thimbles</b> <small>(23 51 16 00-0001)</small>		
23 51 16 00-0116	EA		3" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	28.24	10.61
			<i>For Aluminum Liner, Add</i>	0.10	
			<i>For 304 Stainless Steel Liner, Add</i>	0.14	
			<i>For 2" Wall Instead Of 1", Add</i>	3.19	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	6.10	
23 51 16 00-0117	EA		4" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	35.93	13.58
			<i>For Aluminum Liner, Add</i>	0.10	
			<i>For 304 Stainless Steel Liner, Add</i>	0.14	
			<i>For 2" Wall Instead Of 1", Add</i>	3.97	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	7.65	
23 51 16 00-0118	EA		5" Or 6" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe .....	47.90	18.24
			<i>For Aluminum Liner, Add</i>	0.13	
			<i>For 304 Stainless Steel Liner, Add</i>	0.17	
			<i>For 2" Wall Instead Of 1", Add</i>	5.25	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	10.15	
23 51 16 00-0119	EA		7" Or 8" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe .....	59.80	22.63
			<i>For Aluminum Liner, Add</i>	0.18	
			<i>For 304 Stainless Steel Liner, Add</i>	0.24	
			<i>For 2" Wall Instead Of 1", Add</i>	6.63	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	12.77	
23 51 16 00-0120	EA		10" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	84.70	30.54
			<i>For Aluminum Liner, Add</i>	0.46	
			<i>For 304 Stainless Steel Liner, Add</i>	0.63	
			<i>For 2" Wall Instead Of 1", Add</i>	10.14	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	19.03	
23 51 16 00-0121	EA		12" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	106.55	37.90
			<i>For Aluminum Liner, Add</i>	0.65	
			<i>For 304 Stainless Steel Liner, Add</i>	0.89	
			<i>For 2" Wall Instead Of 1", Add</i>	13.02	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	24.26	
23 51 16 00-0122	EA		14" Or 16" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe .....	133.13	45.26
			<i>For Aluminum Liner, Add</i>	1.10	
			<i>For 304 Stainless Steel Liner, Add</i>	1.50	
			<i>For 2" Wall Instead Of 1", Add</i>	17.31	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	31.63	
23 51 16 00-0123	EA		18" Or 20" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe .....	170.14	53.74
			<i>For Aluminum Liner, Add</i>	1.97	
			<i>For 304 Stainless Steel Liner, Add</i>	2.69	
			<i>For 2" Wall Instead Of 1", Add</i>	24.17	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	42.98	
23 51 16 00-0124	EA		22" Or 24" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe .....	220.48	59.40
			<i>For Aluminum Liner, Add</i>	3.96	
			<i>For 304 Stainless Steel Liner, Add</i>	5.40	
			<i>For 2" Wall Instead Of 1", Add</i>	36.45	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	62.09	

23 51 16 00-0125 Adjustable Roof Flashing (23 51 16 00-0001)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0126 EA 3" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	74.50	25.17
<i>For Aluminum Liner, Add</i>	0.64	
<i>For 304 Stainless Steel Liner, Add</i>	0.88	
<i>For 2" Wall Instead Of 1", Add</i>	9.79	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	17.83	
23 51 16 00-0127 EA 8" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	81.65	26.58
<i>For Aluminum Liner, Add</i>	0.83	
<i>For 304 Stainless Steel Liner, Add</i>	1.13	
<i>For 2" Wall Instead Of 1", Add</i>	11.18	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	20.10	
23 51 16 00-0128 EA 6" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	100.60	30.12
<i>For Aluminum Liner, Add</i>	1.39	
<i>For 304 Stainless Steel Liner, Add</i>	1.89	
<i>For 2" Wall Instead Of 1", Add</i>	15.11	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	26.43	
23 51 16 00-0129 EA 8" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	121.47	34.79
<i>For Aluminum Liner, Add</i>	1.90	
<i>For 304 Stainless Steel Liner, Add</i>	2.59	
<i>For 2" Wall Instead Of 1", Add</i>	19.05	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	32.92	
23 51 16 00-0130 EA 10" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	188.95	37.75
<i>For Aluminum Liner, Add</i>	5.20	
<i>For 304 Stainless Steel Liner, Add</i>	7.10	
<i>For 2" Wall Instead Of 1", Add</i>	37.82	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	61.45	
23 51 16 00-0131 EA 12" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	222.86	41.15
<i>For Aluminum Liner, Add</i>	6.60	
<i>For 304 Stainless Steel Liner, Add</i>	9.00	
<i>For 2" Wall Instead Of 1", Add</i>	46.30	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	74.58	
23 51 16 00-0132 EA 14" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	260.65	45.26
<i>For Aluminum Liner, Add</i>	8.11	
<i>For 304 Stainless Steel Liner, Add</i>	11.06	
<i>For 2" Wall Instead Of 1", Add</i>	55.57	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	89.01	
23 51 16 00-0133 EA 16" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	308.99	50.35
<i>For Aluminum Liner, Add</i>	10.07	
<i>For 304 Stainless Steel Liner, Add</i>	13.73	
<i>For 2" Wall Instead Of 1", Add</i>	67.53	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	107.58	
23 51 16 00-0134 EA 18" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	456.86	56.56
<i>For Aluminum Liner, Add</i>	17.35	
<i>For 304 Stainless Steel Liner, Add</i>	23.65	
<i>For 2" Wall Instead Of 1", Add</i>	108.76	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	170.22	
23 51 16 00-0135 EA 20" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	510.04	75.37
<i>For Aluminum Liner, Add</i>	17.68	
<i>For 304 Stainless Steel Liner, Add</i>	24.11	
<i>For 2" Wall Instead Of 1", Add</i>	115.30	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	182.38	
23 51 16 00-0136 EA 22" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	649.43	97.01
<i>For Aluminum Liner, Add</i>	22.38	
<i>For 304 Stainless Steel Liner, Add</i>	30.52	
<i>For 2" Wall Instead Of 1", Add</i>	146.33	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	231.62	
23 51 16 00-0137 EA 24" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe .....	771.17	113.13
<i>For Aluminum Liner, Add</i>	26.86	
<i>For 304 Stainless Steel Liner, Add</i>	36.63	
<i>For 2" Wall Instead Of 1", Add</i>	174.79	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	276.32	
<b>23 51 16 00-0138 Galvanized Storm Collars <small>(23 51 16 00-0001)</small></b>		
23 51 16 00-0139 EA 3" Round Galvanized Storm Collar, Double Wall .....	29.81	10.61
<i>For Aluminum Liner, Add</i>	0.19	
<i>For 304 Stainless Steel Liner, Add</i>	0.25	
<i>For 2" Wall Instead Of 1", Add</i>	3.66	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	6.81	
23 51 16 00-0140 EA 4" Round Galvanized Storm Collar, Double Wall .....	37.82	13.58
<i>For Aluminum Liner, Add</i>	0.21	
<i>For 304 Stainless Steel Liner, Add</i>	0.29	
<i>For 2" Wall Instead Of 1", Add</i>	4.56	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	8.53	
23 51 16 00-0141 EA 5" Round Galvanized Storm Collar, Double Wall .....	44.42	15.84
<i>For Aluminum Liner, Add</i>	0.27	
<i>For 304 Stainless Steel Liner, Add</i>	0.36	
<i>For 2" Wall Instead Of 1", Add</i>	5.41	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	10.09	
23 51 16 00-0142 EA 6" Round Galvanized Storm Collar, Double Wall .....	51.05	18.10
<i>For Aluminum Liner, Add</i>	0.32	
<i>For 304 Stainless Steel Liner, Add</i>	0.43	
<i>For 2" Wall Instead Of 1", Add</i>	6.26	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	11.66	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0143 EA 7" Or 8" Round Galvanized Storm Collar, Double Wall.....	64.27	22.63
For Aluminum Liner, Add	0.42	
For 304 Stainless Steel Liner, Add	0.58	
For 2" Wall Instead Of 1", Add	7.97	
For 3" To 4" Wall Instead Of 1", Add	14.78	
23 51 16 00-0144 EA 10" Round Galvanized Storm Collar, Double Wall.....	88.45	30.54
For Aluminum Liner, Add	0.66	
For 304 Stainless Steel Liner, Add	0.91	
For 2" Wall Instead Of 1", Add	11.26	
For 3" To 4" Wall Instead Of 1", Add	20.71	
23 51 16 00-0145 EA 12" Round Galvanized Storm Collar, Double Wall.....	109.27	37.90
For Aluminum Liner, Add	0.80	
For 304 Stainless Steel Liner, Add	1.09	
For 2" Wall Instead Of 1", Add	13.83	
For 3" To 4" Wall Instead Of 1", Add	25.48	
23 51 16 00-0146 EA 14" Or 16" Round Galvanized Storm Collar, Double Wall.....	137.75	45.26
For Aluminum Liner, Add	1.35	
For 304 Stainless Steel Liner, Add	1.85	
For 2" Wall Instead Of 1", Add	18.70	
For 3" To 4" Wall Instead Of 1", Add	33.71	
23 51 16 00-0147 EA 18" Or 20" Round Galvanized Storm Collar, Double Wall.....	178.90	53.74
For Aluminum Liner, Add	2.45	
For 304 Stainless Steel Liner, Add	3.34	
For 2" Wall Instead Of 1", Add	26.80	
For 3" To 4" Wall Instead Of 1", Add	46.92	
23 51 16 00-0148 EA 22" Or 24" Round Galvanized Storm Collar, Double Wall.....	242.40	59.40
For Aluminum Liner, Add	5.17	
For 304 Stainless Steel Liner, Add	7.04	
For 2" Wall Instead Of 1", Add	43.02	
For 3" To 4" Wall Instead Of 1", Add	71.96	
<b>23 51 16 00-0149 Oval Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)</b>		
<b>23 51 16 00-0150 Oval Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0149)</b>		
23 51 16 00-0151 LF 4" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	47.82	13.30
For 2" Wall Instead Of 1", Add	7.70	
For 3" To 4" Wall Instead Of 1", Add	13.21	
23 51 16 00-0152 LF 5" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	52.41	14.14
For 2" Wall Instead Of 1", Add	8.71	
For 3" To 4" Wall Instead Of 1", Add	14.81	
23 51 16 00-0153 LF 6" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	57.83	15.14
For 2" Wall Instead Of 1", Add	9.80	
For 3" To 4" Wall Instead Of 1", Add	16.59	
<b>23 51 16 00-0154 45 Degree Elbows (23 51 16 00-0149)</b>		
23 51 16 00-0155 EA 4" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	103.93	27.58
For 2" Wall Instead Of 1", Add	17.38	
For 3" To 4" Wall Instead Of 1", Add	29.52	
23 51 16 00-0156 EA 5" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	121.30	32.24
For 2" Wall Instead Of 1", Add	20.27	
For 3" To 4" Wall Instead Of 1", Add	34.43	
23 51 16 00-0157 EA 6" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	143.42	36.49
For 2" Wall Instead Of 1", Add	24.78	
For 3" To 4" Wall Instead Of 1", Add	41.73	
23 51 16 00-0158 EA 4" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	105.68	27.58
For 2" Wall Instead Of 1", Add	17.91	
For 3" To 4" Wall Instead Of 1", Add	30.31	
23 51 16 00-0159 EA 5" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	125.55	32.24
For 2" Wall Instead Of 1", Add	21.54	
For 3" To 4" Wall Instead Of 1", Add	36.35	
23 51 16 00-0160 EA 6" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	146.17	36.49
For 2" Wall Instead Of 1", Add	25.60	
For 3" To 4" Wall Instead Of 1", Add	42.97	
<b>23 51 16 00-0161 Tees (23 51 16 00-0149)</b>		
23 51 16 00-0162 EA 4" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe.....	171.42	41.86
For 2" Wall Instead Of 1", Add	30.47	
For 3" To 4" Wall Instead Of 1", Add	50.95	
23 51 16 00-0163 EA 4" Short Snout Oval Flue/Vent Tee, Galvanized Double Wall Breech/Smoke Pipe.....	174.17	41.86
For 2" Wall Instead Of 1", Add	31.30	
For 3" To 4" Wall Instead Of 1", Add	52.19	
23 51 16 00-0164 EA 5" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe.....	200.10	48.08
For 2" Wall Instead Of 1", Add	35.99	
For 3" To 4" Wall Instead Of 1", Add	59.99	
23 51 16 00-0165 EA 6" Oval Flue/Vent Tee With Round Coupling, Galvanized Double Wall Breech/Smoke Pipe.....	228.30	53.88
For 2" Wall Instead Of 1", Add	41.55	
For 3" To 4" Wall Instead Of 1", Add	69.07	
<b>23 51 16 00-0166 Tops/Caps And Adjustable Flashing (23 51 16 00-0149)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0167 EA 4" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe ..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	64.28 12.47 20.41	13.58
23 51 16 00-0168 EA 6" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe ..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	98.67 20.48 33.00	18.24
23 51 16 00-0169 EA 4" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	53.54 9.25 15.58	13.58
23 51 16 00-0170 EA 6" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe ..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	88.56 17.44 28.45	18.24
<b>23 51 16 00-0171 Storm Collars</b> <small>(23 51 16 00-0149)</small>		
23 51 16 00-0172 EA 4" Oval Galvanized Storm Collar, Double Wall ..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	37.82 4.56 8.53	13.58
23 51 16 00-0173 EA 5" Oval Galvanized Storm Collar, Double Wall ..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	44.42 5.41 10.09	15.84
23 51 16 00-0174 EA 6" Oval Galvanized Storm Collar, Double Wall ..... <i>For 2" Wall Instead Of 1", Add</i> <i>For 3" To 4" Wall Instead Of 1", Add</i>	51.05 6.26 11.66	18.10
<b>23 51 16 00-0175 Round Double Wall Flue/Vent Pipe And Fittings</b> <small>(23 51 16)</small>		
<i>Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.</i>		
<b>23 51 16 00-0176 Round Double Wall Flue/Vent Pipe</b> <small>(23 51 16 00-0175)</small>		
<i>Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.</i>		
23 51 16 00-0177 LF 6" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	117.84 12.81 8.01 16.01	15.14
23 51 16 00-0178 LF 8" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	141.30 15.64 9.77 19.55	17.40
23 51 16 00-0179 LF 10" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	156.57 17.52 10.95 21.90	18.81
23 51 16 00-0180 LF 12" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	176.22 19.97 12.48 24.96	20.51
23 51 16 00-0181 LF 14" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	197.54 22.98 14.37 28.73	21.49
23 51 16 00-0182 LF 16" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	208.55 24.30 15.19 30.38	22.63
23 51 16 00-0183 LF 18" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	230.34 27.32 17.07 34.15	23.90
23 51 16 00-0184 LF 20" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	289.78 31.27 19.55 39.09	37.75
23 51 16 00-0185 LF 24" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	358.05 40.32 25.20 50.39	42.42
23 51 16 00-0186 LF 28" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	402.73 46.34 28.97 57.93	45.26
23 51 16 00-0187 LF 32" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket ..... <i>For 316 Stainless Steel, Add</i> <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	450.54 52.00 32.50 64.99	50.21

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 51 Breechings, Chimneys, and Stacks**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0188	LF		36" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	500.59	54.30
			<i>For 316 Stainless Steel, Add</i>	58.40	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	36.50	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	73.00	
23 51 16 00-0189	LF		42" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	571.43	61.80
			<i>For 316 Stainless Steel, Add</i>	66.69	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	41.68	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	83.36	
23 51 16 00-0190	LF		48" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	668.71	71.56
			<i>For 316 Stainless Steel, Add</i>	78.37	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	48.98	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	97.96	
<b>23 51 16 00-0191</b>			<b>90 Degree Elbows</b> <small>(23 51 16 00-0175)</small>		
23 51 16 00-0192	EA		6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	532.57	31.25
			<i>For 316 Stainless Steel, Add</i>	90.90	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	45.45	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	90.90	
23 51 16 00-0193	EA		8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	588.55	34.79
			<i>For 316 Stainless Steel, Add</i>	100.32	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	50.16	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	100.32	
23 51 16 00-0194	EA		10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	668.96	37.75
			<i>For 316 Stainless Steel, Add</i>	114.92	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	57.46	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	114.92	
23 51 16 00-0195	EA		12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	755.11	41.15
			<i>For 316 Stainless Steel, Add</i>	130.46	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	65.23	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	130.46	
23 51 16 00-0196	EA		14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	873.09	43.14
			<i>For 316 Stainless Steel, Add</i>	153.06	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	76.53	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	153.06	
23 51 16 00-0197	EA		16" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	960.85	45.26
			<i>For 316 Stainless Steel, Add</i>	169.55	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	84.77	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	169.55	
23 51 16 00-0198	EA		18" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,108.09	47.66
			<i>For 316 Stainless Steel, Add</i>	197.81	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	98.90	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	197.81	
23 51 16 00-0199	EA		20" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,295.34	75.37
			<i>For 316 Stainless Steel, Add</i>	221.36	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	110.68	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	221.36	
23 51 16 00-0200	EA		24" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,589.70	84.85
			<i>For 316 Stainless Steel, Add</i>	275.52	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	137.76	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	275.52	
23 51 16 00-0201	EA		28" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,921.76	90.51
			<i>For 316 Stainless Steel, Add</i>	339.10	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	169.55	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	339.10	
23 51 16 00-0202	EA		32" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,526.53	96.87
			<i>For 316 Stainless Steel, Add</i>	456.84	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	228.42	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	456.84	
23 51 16 00-0203	EA		36" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,873.16	113.13
			<i>For 316 Stainless Steel, Add</i>	518.07	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	259.03	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	518.07	
23 51 16 00-0204	EA		42" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	4,193.96	123.45
			<i>For 316 Stainless Steel, Add</i>	777.10	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	388.55	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	777.10	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0205 EA 48" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	5,225.68	135.76
<i>For 316 Stainless Steel, Add</i>	977.26	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	488.63	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	977.26	
<b>23 51 16 00-0206 45 Degree Elbows</b> <small>(23 51 16 00-0175)</small>		
23 51 16 00-0207 EA 6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	360.32	30.12
<i>For 316 Stainless Steel, Add</i>	56.99	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	28.49	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	56.99	
23 51 16 00-0208 EA 8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	411.94	34.79
<i>For 316 Stainless Steel, Add</i>	64.99	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	32.50	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	64.99	
23 51 16 00-0209 EA 10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	456.99	37.75
<i>For 316 Stainless Steel, Add</i>	72.53	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	36.27	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	72.53	
23 51 16 00-0210 EA 12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	519.64	41.15
<i>For 316 Stainless Steel, Add</i>	83.36	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	41.68	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	83.36	
23 51 16 00-0211 EA 14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	583.45	43.14
<i>For 316 Stainless Steel, Add</i>	95.14	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	47.57	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	95.14	
23 51 16 00-0212 EA 16" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	652.37	45.26
<i>For 316 Stainless Steel, Add</i>	107.85	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	53.93	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	107.85	
23 51 16 00-0213 EA 18" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	728.96	47.66
<i>For 316 Stainless Steel, Add</i>	121.98	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	60.99	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	121.98	
23 51 16 00-0214 EA 20" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	885.60	75.37
<i>For 316 Stainless Steel, Add</i>	139.41	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	69.70	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	139.41	
23 51 16 00-0215 EA 24" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,106.97	84.85
<i>For 316 Stainless Steel, Add</i>	178.97	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	89.48	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	178.97	
23 51 16 00-0216 EA 28" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,238.85	90.51
<i>For 316 Stainless Steel, Add</i>	202.52	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	101.26	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	202.52	
23 51 16 00-0217 EA 32" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,596.37	96.87
<i>For 316 Stainless Steel, Add</i>	270.81	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	135.40	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	270.81	
23 51 16 00-0218 EA 36" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,107.83	113.13
<i>For 316 Stainless Steel, Add</i>	365.00	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	182.50	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	365.00	
23 51 16 00-0219 EA 42" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,781.06	123.45
<i>For 316 Stainless Steel, Add</i>	494.52	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	247.26	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	494.52	
23 51 16 00-0220 EA 48" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	3,695.07	135.76
<i>For 316 Stainless Steel, Add</i>	671.13	
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	335.57	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	671.13	
<b>23 51 16 00-0221 Tees</b> <small>(23 51 16 00-0175)</small>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0222	EA	6" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	393.45	37.75
		<i>For 316 Stainless Steel, Add</i>	65.80	
		<i>For Tee Cap, Add</i>	92.85	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	29.91	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	59.81	
23 51 16 00-0223	EA	8" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	446.63	41.15
		<i>For 316 Stainless Steel, Add</i>	75.64	
		<i>For Tee Cap, Add</i>	104.75	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	34.38	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	68.76	
23 51 16 00-0224	EA	10" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	510.41	43.14
		<i>For 316 Stainless Steel, Add</i>	88.59	
		<i>For Tee Cap, Add</i>	118.24	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	40.27	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	80.54	
23 51 16 00-0225	EA	12" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	584.07	45.26
		<i>For 316 Stainless Steel, Add</i>	103.61	
		<i>For Tee Cap, Add</i>	133.78	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	47.10	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	94.19	
23 51 16 00-0226	EA	14" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	681.45	50.35
		<i>For 316 Stainless Steel, Add</i>	122.26	
		<i>For Tee Cap, Add</i>	155.15	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	55.57	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	111.15	
23 51 16 00-0227	EA	16" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	765.35	56.56
		<i>For 316 Stainless Steel, Add</i>	137.29	
		<i>For Tee Cap, Add</i>	174.27	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	62.40	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	124.81	
23 51 16 00-0228	EA	18" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	891.48	64.63
		<i>For 316 Stainless Steel, Add</i>	160.60	
		<i>For Tee Cap, Add</i>	202.52	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	73.00	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	146.00	
23 51 16 00-0229	EA	20" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,023.84	79.89
		<i>For 316 Stainless Steel, Add</i>	181.32	
		<i>For Tee Cap, Add</i>	234.71	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	82.42	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	164.84	
23 51 16 00-0230	EA	24" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,307.19	113.13
		<i>For 316 Stainless Steel, Add</i>	225.36	
		<i>For Tee Cap, Add</i>	303.86	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	102.44	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	204.87	
23 51 16 00-0231	EA	28" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,580.09	123.45
		<i>For 316 Stainless Steel, Add</i>	279.76	
		<i>For Tee Cap, Add</i>	362.29	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	127.16	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	254.32	
23 51 16 00-0232	EA	32" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,081.96	135.76
		<i>For 316 Stainless Steel, Add</i>	383.37	
		<i>For Tee Cap, Add</i>	467.30	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	174.26	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	348.52	
23 51 16 00-0233	EA	36" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,320.06	150.89
		<i>For 316 Stainless Steel, Add</i>	427.41	
		<i>For Tee Cap, Add</i>	520.61	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	194.28	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	388.55	
23 51 16 00-0234	EA	42" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	3,685.83	226.27
		<i>For 316 Stainless Steel, Add</i>	686.44	
		<i>For Tee Cap, Add</i>	822.02	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	312.02	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	624.03	
23 51 16 00-0235	EA	48" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	4,623.19	271.52
		<i>For 316 Stainless Steel, Add</i>	867.76	
		<i>For Tee Cap, Add</i>	1,026.46	
		<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	394.44	
		<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	788.87	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 51 16 00-0236</b>				<b>Bellows</b> <small>(23 51 16 00-0175)</small>		
			EA	6" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	720.61	30.12
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	64.52	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	129.05	
			EA	8" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	786.36	34.79
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	69.94	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	139.88	
			EA	10" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	859.70	37.75
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	76.53	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	153.06	
			EA	12" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	950.56	41.15
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	84.77	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	169.55	
			EA	14" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,061.48	43.14
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	95.37	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	190.74	
			EA	16" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,172.79	45.26
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	105.97	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	211.94	
			EA	18" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,308.26	47.66
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	118.92	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	237.84	
			EA	20" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,530.80	75.37
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	134.23	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	268.45	
			EA	24" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,884.09	84.85
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	167.19	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	334.39	
			EA	28" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,110.16	90.51
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	188.39	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	376.77	
			EA	32" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,408.94	97.01
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	216.65	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	433.29	
			EA	36" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,755.44	113.13
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	247.26	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	494.52	
			EA	42" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	3,487.54	123.45
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	317.90	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	635.81	
			EA	48" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	4,224.91	135.76
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	388.55	
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	777.10	
<b>23 51 16 00-0251</b>				<b>Ventilated Roof Thimbles</b> <small>(23 51 16 00-0175)</small>		
			EA	6" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	487.34	34.79
				<i>For 316 Stainless Steel, Add</i>	40.03	
			EA	8" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	531.41	41.15
				<i>For 316 Stainless Steel, Add</i>	42.86	
			EA	10" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	581.70	45.26
				<i>For 316 Stainless Steel, Add</i>	46.86	
			EA	12" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	629.73	50.35
				<i>For 316 Stainless Steel, Add</i>	50.39	
			EA	14" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	794.84	53.31
				<i>For 316 Stainless Steel, Add</i>	66.17	
			EA	16" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	715.96	56.56
				<i>For 316 Stainless Steel, Add</i>	57.46	
			EA	18" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	770.23	60.38
				<i>For 316 Stainless Steel, Add</i>	61.93	
			EA	20" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	876.22	84.85
				<i>For 316 Stainless Steel, Add</i>	66.41	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0260 EA 24" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	983.95 74.18	96.87
For 316 Stainless Steel, Add		
23 51 16 00-0261 EA 28" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,120.44 85.95	104.36
For 316 Stainless Steel, Add		
23 51 16 00-0262 EA 32" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,248.14 96.55	112.99
For 316 Stainless Steel, Add		
23 51 16 00-0263 EA 36" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,398.87 105.97	135.61
For 316 Stainless Steel, Add		
23 51 16 00-0264 EA 42" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,778.08 140.11	150.75
For 316 Stainless Steel, Add		
23 51 16 00-0265 EA 48" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,190.08 176.61	169.56
For 316 Stainless Steel, Add		
<b>23 51 16 00-0266 Exit Cones</b> <small>(23 51 16 00-0175)</small>		
23 51 16 00-0267 EA 6" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	334.18	19.65
23 51 16 00-0268 EA 8" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	352.96	21.49
23 51 16 00-0269 EA 10" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	379.16	22.63
23 51 16 00-0270 EA 12" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	396.28	23.76
23 51 16 00-0271 EA 14" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	435.55	24.47
23 51 16 00-0272 EA 16" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	474.83	25.03
23 51 16 00-0273 EA 18" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	573.24	25.88
23 51 16 00-0274 EA 20" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	726.42	48.51
23 51 16 00-0275 EA 24" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	907.61	52.18
23 51 16 00-0276 EA 28" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,077.71	54.30
23 51 16 00-0277 EA 32" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,318.86	56.56
23 51 16 00-0278 EA 36" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,496.58	61.80
23 51 16 00-0279 EA 42" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,880.71	64.63
23 51 16 00-0280 EA 48" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,395.05	67.88
<b>23 51 16 00-0281 Vent Top Caps</b> <small>(23 51 16 00-0175)</small>		
23 51 16 00-0282 EA 6" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	364.68	19.65
23 51 16 00-0283 EA 8" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	421.25	21.49
23 51 16 00-0284 EA 10" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	487.46	22.63
23 51 16 00-0285 EA 12" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	558.73	23.76
23 51 16 00-0286 EA 14" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	649.78	24.47
23 51 16 00-0287 EA 16" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	736.31	25.17
23 51 16 00-0288 EA 18" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	818.19	25.88
23 51 16 00-0289 EA 20" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	992.39	48.51
23 51 16 00-0290 EA 24" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,178.42	52.18
23 51 16 00-0291 EA 28" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,277.79	54.30
23 51 16 00-0292 EA 32" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,448.28	56.56
23 51 16 00-0293 EA 36" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,684.81	61.66
23 51 16 00-0294 EA 42" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,045.44	64.63
23 51 16 00-0295 EA 48" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,371.40	67.88
<b>23 51 16 00-0296 Roof Support Assemblies</b> <small>(23 51 16 00-0175)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0297 EA 6" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	554.28	36.21
<i>For 316 Stainless Steel, Add</i>	92.78	
23 51 16 00-0298 EA 8" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	614.06	43.14
<i>For 316 Stainless Steel, Add</i>	101.26	
23 51 16 00-0299 EA 10" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	674.73	47.66
<i>For 316 Stainless Steel, Add</i>	111.15	
23 51 16 00-0300 EA 12" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	721.72	53.17
<i>For 316 Stainless Steel, Add</i>	117.74	
23 51 16 00-0301 EA 14" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	803.11	56.56
<i>For 316 Stainless Steel, Add</i>	132.34	
23 51 16 00-0302 EA 16" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	852.61	60.38
<i>For 316 Stainless Steel, Add</i>	140.35	
23 51 16 00-0303 EA 18" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	915.31	64.77
<i>For 316 Stainless Steel, Add</i>	150.71	
23 51 16 00-0304 EA 20" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,026.92	90.51
<i>For 316 Stainless Steel, Add</i>	160.13	
23 51 16 00-0305 EA 24" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,155.95	104.50
<i>For 316 Stainless Steel, Add</i>	178.97	
23 51 16 00-0306 EA 28" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,330.74	113.13
<i>For 316 Stainless Steel, Add</i>	209.58	
23 51 16 00-0307 EA 32" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,580.12	123.45
<i>For 316 Stainless Steel, Add</i>	254.32	
23 51 16 00-0308 EA 36" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	1,837.31	150.89
<i>For 316 Stainless Steel, Add</i>	292.00	
23 51 16 00-0309 EA 42" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	2,708.41	169.70
<i>For 316 Stainless Steel, Add</i>	456.84	
23 51 16 00-0310 EA 48" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....	3,308.13	192.89
<i>For 316 Stainless Steel, Add</i>	565.16	
<b>23 51 16 00-0311 Round Stainless Steel Double Wall Flue/Vent Pipe And Fittings</b> <small>(23 51 16)</small>		
Note: With 1" insulation.		
<b>23 51 16 00-0312 Round Stainless Steel Double Wall Flue/Vent Pipe</b> <small>(23 51 16 00-0311)</small>		
Note: With 1" insulation.		
23 51 16 00-0313 LF 6" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....	103.72	15.14
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	6.59	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	13.19	
23 51 16 00-0314 LF 7" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....	125.20	16.12
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	8.48	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	16.95	
23 51 16 00-0315 LF 8" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....	142.47	17.40
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	9.89	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	19.78	
23 51 16 00-0316 LF 10" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....	190.66	18.81
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	14.37	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	28.73	
23 51 16 00-0317 LF 12" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....	244.57	20.65
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	19.31	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	38.62	
23 51 16 00-0318 LF 14" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe .....	308.33	21.63
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	25.43	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	50.86	
<b>23 51 16 00-0319 90 Degree Elbows</b> <small>(23 51 16 00-0311)</small>		
23 51 16 00-0320 EA 6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	222.61	30.12
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	14.72	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	29.44	
23 51 16 00-0321 EA 7" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	245.58	32.24
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	16.48	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	32.97	
23 51 16 00-0322 EA 8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	275.40	34.79
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	18.84	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	37.68	
23 51 16 00-0323 EA 10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	339.23	37.75
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	24.49	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	48.98	
23 51 16 00-0324 EA 12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	401.91	41.15
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	29.91	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	59.81	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0325 EA 14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	465.63	43.14
For 2" Insulated Wall Instead Of 1" Thickness, Add	35.79	
For 3" Insulated Wall Instead Of 1" Thickness, Add	71.59	
<b>23 51 16 00-0326 45 Degree Elbows (23 51 16 00-0311)</b>		
23 51 16 00-0327 EA 6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	185.82	30.12
For 2" Insulated Wall Instead Of 1" Thickness, Add	11.04	
For 3" Insulated Wall Instead Of 1" Thickness, Add	22.08	
23 51 16 00-0328 EA 7" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	204.37	32.24
For 2" Insulated Wall Instead Of 1" Thickness, Add	12.36	
For 3" Insulated Wall Instead Of 1" Thickness, Add	24.73	
23 51 16 00-0329 EA 8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	228.32	34.79
For 2" Insulated Wall Instead Of 1" Thickness, Add	14.13	
For 3" Insulated Wall Instead Of 1" Thickness, Add	28.26	
23 51 16 00-0330 EA 10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	278.01	37.75
For 2" Insulated Wall Instead Of 1" Thickness, Add	18.37	
For 3" Insulated Wall Instead Of 1" Thickness, Add	36.74	
23 51 16 00-0331 EA 12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	327.11	41.15
For 2" Insulated Wall Instead Of 1" Thickness, Add	22.43	
For 3" Insulated Wall Instead Of 1" Thickness, Add	44.86	
23 51 16 00-0332 EA 14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe .....	376.21	43.14
For 2" Insulated Wall Instead Of 1" Thickness, Add	26.85	
For 3" Insulated Wall Instead Of 1" Thickness, Add	53.69	
<b>23 51 16 00-0333 Tees With Tee Caps (23 51 16 00-0311)</b>		
23 51 16 00-0334 EA 6" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....	353.23	30.12
For 2" Insulated Wall Instead Of 1" Thickness, Add	27.79	
For 3" Insulated Wall Instead Of 1" Thickness, Add	55.57	
23 51 16 00-0335 EA 7" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....	443.40	32.24
For 2" Insulated Wall Instead Of 1" Thickness, Add	36.27	
For 3" Insulated Wall Instead Of 1" Thickness, Add	72.53	
23 51 16 00-0336 EA 8" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....	496.72	34.79
For 2" Insulated Wall Instead Of 1" Thickness, Add	40.97	
For 3" Insulated Wall Instead Of 1" Thickness, Add	81.95	
23 51 16 00-0337 EA 10" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....	671.17	37.75
For 2" Insulated Wall Instead Of 1" Thickness, Add	57.69	
For 3" Insulated Wall Instead Of 1" Thickness, Add	115.39	
23 51 16 00-0338 EA 12" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....	915.19	41.15
For 2" Insulated Wall Instead Of 1" Thickness, Add	81.24	
For 3" Insulated Wall Instead Of 1" Thickness, Add	162.48	
23 51 16 00-0339 EA 14" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe .....	1,167.34	43.14
For 2" Insulated Wall Instead Of 1" Thickness, Add	105.97	
For 3" Insulated Wall Instead Of 1" Thickness, Add	211.94	
<b>23 51 16 00-0340 Joist Shields (23 51 16 00-0311)</b>		
23 51 16 00-0341 EA 6" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....	160.15	30.12
23 51 16 00-0342 EA 7" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....	172.59	32.24
23 51 16 00-0343 EA 8" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....	200.01	34.79
23 51 16 00-0344 EA 10" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....	246.27	37.75
23 51 16 00-0345 EA 12" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....	292.38	41.15
23 51 16 00-0346 EA 14" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe .....	343.17	43.14
<b>23 51 16 00-0347 Adjustable Roof Flashing (23 51 16 00-0311)</b>		
23 51 16 00-0348 EA 6" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe .....	187.23	30.12
23 51 16 00-0349 EA 7" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe .....	207.89	32.24
23 51 16 00-0350 EA 8" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe .....	225.90	34.79
23 51 16 00-0351 EA 10" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe .....	272.14	37.75
23 51 16 00-0352 EA 12" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe .....	332.51	41.15
23 51 16 00-0353 EA 14" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe .....	394.94	42.99
<b>23 51 16 00-0354 Vent Top Caps (23 51 16 00-0311)</b>		
23 51 16 00-0355 EA 6" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....	169.57	30.12
23 51 16 00-0356 EA 7" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....	209.07	32.24
23 51 16 00-0357 EA 8" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....	258.87	34.79
23 51 16 00-0358 EA 10" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....	402.87	37.75
23 51 16 00-0359 EA 12" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....	543.25	41.15
23 51 16 00-0360 EA 14" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe .....	687.01	43.14
<b>23 51 16 00-0361 Roof Support Assemblies (23 51 16 00-0311)</b>		
23 51 16 00-0362 EA 6" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....	243.64	30.12
23 51 16 00-0363 EA 7" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....	270.29	32.24
23 51 16 00-0364 EA 8" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....	292.99	34.79
23 51 16 00-0365 EA 10" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....	365.07	37.75
23 51 16 00-0366 EA 12" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....	430.15	41.15
23 51 16 00-0367 EA 14" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe .....	522.18	43.14



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0368				<b>Polyvinyl Chloride (PVC) Flue/Vent Accessories</b> (23 51 16)		
23 51 16 00-0369				<b>Concentric Polyvinyl Chloride (PVC) Vent Termination</b> (23 51 16 00-0368)		
23 51 16 00-0370	EA			2" Concentric Polyvinyl Chloride (PVC) Vent Termination.....	262.06	57.60
23 51 16 00-0371	EA			3" Concentric Polyvinyl Chloride (PVC) Vent Termination.....	283.04	57.60
23 51 16 00-0372				<b>Polypropylene (PP) Flue/Vent Pipe And Fittings</b> (23 51 16) Note: Centrotherm InnoFlue® Vent System		
23 51 16 00-0373				<b>Polypropylene Flue/Vent Rigid Pipe Sections</b> (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent lengths with dedicated male and female ends.		
23 51 16 00-0374	EA			2" x 12" Polypropylene Flue/Vent Rigid Pipe Section.....	52.04	17.49
23 51 16 00-0375	EA			2" x 24" Polypropylene Flue/Vent Rigid Pipe Section.....	58.73	18.41
23 51 16 00-0376	EA			2" x 36" Polypropylene Flue/Vent Rigid Pipe Section.....	67.11	20.47
23 51 16 00-0377	EA			2" x 72" Polypropylene Flue/Vent Rigid Pipe Section.....	82.95	24.07
23 51 16 00-0378	EA			3" x 12" Polypropylene Flue/Vent Rigid Pipe Section.....	62.28	20.05
23 51 16 00-0379	EA			3" x 24" Polypropylene Flue/Vent Rigid Pipe Section.....	74.25	21.11
23 51 16 00-0380	EA			3" x 36" Polypropylene Flue/Vent Rigid Pipe Section.....	90.37	23.46
23 51 16 00-0381	EA			3" x 72" Polypropylene Flue/Vent Rigid Pipe Section.....	111.35	27.59
23 51 16 00-0382	EA			4" x 12" Polypropylene Flue/Vent Rigid Pipe Section.....	100.96	26.53
23 51 16 00-0383	EA			4" x 24" Polypropylene Flue/Vent Rigid Pipe Section.....	118.23	27.92
23 51 16 00-0384	EA			4" x 36" Polypropylene Flue/Vent Rigid Pipe Section.....	145.93	31.03
23 51 16 00-0385	EA			4" x 72" Polypropylene Flue/Vent Rigid Pipe Section.....	187.99	36.50
23 51 16 00-0386	EA			5" x 12" Polypropylene Flue/Vent Rigid Pipe Section.....	149.71	39.15
23 51 16 00-0387	EA			5" x 24" Polypropylene Flue/Vent Rigid Pipe Section.....	170.14	41.20
23 51 16 00-0388	EA			5" x 36" Polypropylene Flue/Vent Rigid Pipe Section.....	218.92	45.79
23 51 16 00-0389	EA			5" x 72" Polypropylene Flue/Vent Rigid Pipe Section.....	282.90	53.88
23 51 16 00-0390				<b>Polypropylene Flue/Vent Elbows</b> (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0391	EA			2" Polypropylene Flue/Vent 15 Degree Elbow.....	64.22	21.25
23 51 16 00-0392	EA			3" Polypropylene Flue/Vent 15 Degree Elbow.....	74.39	22.37
23 51 16 00-0393	EA			4" Polypropylene Flue/Vent 15 Degree Elbow.....	91.47	23.19
23 51 16 00-0394	EA			5" Polypropylene Flue/Vent 15 Degree Elbow.....	105.38	24.14
23 51 16 00-0395	EA			2" Polypropylene Flue/Vent 30 Degree Elbow.....	64.22	21.25
23 51 16 00-0396	EA			3" Polypropylene Flue/Vent 30 Degree Elbow.....	74.39	22.37
23 51 16 00-0397	EA			4" Polypropylene Flue/Vent 30 Degree Elbow.....	91.47	23.19
23 51 16 00-0398	EA			5" Polypropylene Flue/Vent 30 Degree Elbow.....	105.38	24.14
23 51 16 00-0399	EA			2" Polypropylene Flue/Vent 45 Degree Elbow.....	64.22	21.25
23 51 16 00-0400	EA			3" Polypropylene Flue/Vent 45 Degree Elbow.....	74.39	22.37
23 51 16 00-0401	EA			4" Polypropylene Flue/Vent 45 Degree Elbow.....	91.47	23.19
23 51 16 00-0402	EA			5" Polypropylene Flue/Vent 45 Degree Elbow.....	105.38	24.14
23 51 16 00-0403	EA			2" Polypropylene Flue/Vent 87 Degree Elbow.....	64.22	21.25
23 51 16 00-0404	EA			3" Polypropylene Flue/Vent 87 Degree Elbow.....	74.39	22.37
23 51 16 00-0405	EA			4" Polypropylene Flue/Vent 87 Degree Elbow.....	90.43	23.19
23 51 16 00-0406	EA			5" Polypropylene Flue/Vent 87 Degree Elbow.....	107.96	24.14
23 51 16 00-0407				<b>Polypropylene Flue/Vent Tees</b> (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0408	EA			2" Polypropylene Flue/Vent Tee.....	189.39	31.89
23 51 16 00-0409	EA			3" Polypropylene Flue/Vent Tee.....	236.00	33.57
23 51 16 00-0410	EA			4" Polypropylene Flue/Vent Tee.....	275.56	34.79
23 51 16 00-0411	EA			5" Polypropylene Flue/Vent Tee.....	300.93	36.21
23 51 16 00-0412				<b>Polypropylene Flue/Vent Adaptors</b> (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0413	EA			2" Polypropylene Flue/Vent Adaptor With Gasket.....	74.38	21.25
23 51 16 00-0414	EA			3" Polypropylene Flue/Vent Adaptor With Gasket.....	103.97	22.37
23 51 16 00-0415	EA			4" Polypropylene Flue/Vent Adaptor With Gasket.....	120.11	23.19
23 51 16 00-0416	EA			5" Polypropylene Flue/Vent Adaptor With Gasket.....	161.37	24.14
23 51 16 00-0417				<b>Polypropylene Flue/Vent Increases</b> (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0418	EA			2" to 3" Polypropylene Flue/Vent Centric Increaser.....	81.86	21.82
23 51 16 00-0419	EA			3" to 4" Polypropylene Flue/Vent Centric Increaser.....	89.29	22.78
23 51 16 00-0420	EA			4" to 5" Polypropylene Flue/Vent Centric Increaser.....	154.99	23.65
23 51 16 00-0421	EA			2" to 3" Polypropylene Flue/Vent Eccentric Increaser.....	107.93	21.82
23 51 16 00-0422	EA			3" to 4" Polypropylene Flue/Vent Eccentric Increaser.....	87.16	22.78
23 51 16 00-0423	EA			4" to 5" Polypropylene Flue/Vent Eccentric Increaser.....	210.66	23.65
23 51 16 00-0424				<b>Polypropylene Flue/Vent Reducers</b> (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0425	EA			3" to 2" Polypropylene Flue/Vent Reducer.....	81.86	21.82
23 51 16 00-0426	EA			4" to 3" Polypropylene Flue/Vent Reducer.....	89.29	22.78

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 51 Breechings, Chimneys, and Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0427 EA 5" to 4" Polypropylene Flue/Vent Reducer.....	189.70	23.65
<b>23 51 16 00-0428 Polypropylene Flue/Vent Test Ports</b> (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0429 EA 2" Polypropylene Flue/Vent Test Port .....	105.20	31.89
23 51 16 00-0430 EA 3" Polypropylene Flue/Vent Test Port .....	117.30	33.57
23 51 16 00-0431 EA 4" Polypropylene Flue/Vent Test Port .....	174.16	34.79
23 51 16 00-0432 EA 5" Polypropylene Flue/Vent Test Port .....	185.64	36.21
<b>23 51 16 00-0433 Polypropylene Flue/Vent Cascade Components</b> (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0434 EA 4" x 15" Polypropylene Flue/Vent Branch Tee With 4" Feeder .....	280.24	34.79
23 51 16 00-0435 EA 4" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder .....	366.31	43.49
23 51 16 00-0436 EA 5" x 12" Polypropylene Flue/Vent Branch Tee With 4" Feeder .....	232.97	36.21
23 51 16 00-0437 EA 5" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder .....	342.36	45.26
23 51 16 00-0438 EA 3" to 4" Polypropylene Flue/Vent Non-Return Valve .....	350.64	22.78
23 51 16 00-0439 EA 4" to 4" Polypropylene Flue/Vent Non-Return Valve .....	405.07	23.65
<b>23 51 16 00-0440 Polypropylene Flue/Vent Condensate Management</b> (23 51 16 00-0372) Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0441 EA 2" Polypropylene Flue/Vent Horizontal Drain Tee .....	140.39	31.89
23 51 16 00-0442 EA 3" Polypropylene Flue/Vent Horizontal Drain Tee .....	168.06	33.57
23 51 16 00-0443 EA 4" Polypropylene Flue/Vent Horizontal Drain Tee .....	191.31	34.79
23 51 16 00-0444 EA 5" Polypropylene Flue/Vent Horizontal Drain Tee .....	217.13	36.21
23 51 16 00-0445 EA 4" Polypropylene Flue/Vent Horizontal Drain Fittings .....	238.93	34.79
23 51 16 00-0446 EA 5" Polypropylene Flue/Vent Horizontal Drain Fittings .....	262.70	36.21
23 51 16 00-0447 EA 2" Polypropylene Flue/Vent Tee Cap .....	78.38	10.63
23 51 16 00-0448 EA 3" Polypropylene Flue/Vent Tee Cap .....	99.81	11.18
23 51 16 00-0449 EA 4" Polypropylene Flue/Vent Tee Cap .....	118.06	11.60
23 51 16 00-0450 EA 5" Polypropylene Flue/Vent Tee Cap .....	153.20	12.06
23 51 16 00-0451 EA 2" Polypropylene Flue/Vent Tee Cap With Drain .....	155.62	31.89
23 51 16 00-0452 EA 3" Polypropylene Flue/Vent Tee Cap With Drain .....	189.18	33.57
23 51 16 00-0453 EA 4" Polypropylene Flue/Vent Tee Cap With Drain .....	217.51	34.79
23 51 16 00-0454 EA 5" Polypropylene Flue/Vent Tee Cap With Drain .....	260.19	36.21
<b>23 51 16 00-0455 Polypropylene Flue/Vent Terminations</b> (23 51 16 00-0372)		
23 51 16 00-0456 EA 2" Polypropylene-UV Black Flue/Vent Chimney Cover .....	195.67	21.25
23 51 16 00-0457 EA 3" Polypropylene-UV Black Flue/Vent Chimney Cover .....	173.82	22.37
23 51 16 00-0458 EA 4" Polypropylene-UV Black Flue/Vent Chimney Cover .....	215.93	23.19
23 51 16 00-0459 EA 3" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe .....	432.90	22.37
23 51 16 00-0460 EA 4" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe .....	462.00	23.19
23 51 16 00-0461 EA 5" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe .....	538.35	24.14
23 51 16 00-0462 EA 2 1/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	118.40	21.25
23 51 16 00-0463 EA 2 1/2" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	124.93	21.25
23 51 16 00-0464 EA 2 1/8" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	131.46	21.25
23 51 16 00-0465 EA 2 1/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	137.98	21.25
23 51 16 00-0466 EA 3 1/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	127.74	22.37
23 51 16 00-0467 EA 3 1/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	134.27	22.37
23 51 16 00-0468 EA 3 1/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	140.79	22.37
23 51 16 00-0469 EA 3 1/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	147.32	22.37
23 51 16 00-0470 EA 4 1/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	142.82	23.19
23 51 16 00-0471 EA 4 1/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	149.35	23.19
23 51 16 00-0472 EA 4 1/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar .....	155.87	23.19
23 51 16 00-0473 EA 2" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination .....	124.86	21.25
23 51 16 00-0474 EA 3" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination .....	158.41	22.37
23 51 16 00-0475 EA 2" Polypropylene-UV Black Flue/Vent Termination Tee .....	147.47	31.89
23 51 16 00-0476 EA 3" Polypropylene-UV Black Flue/Vent Termination Tee .....	191.47	33.57
23 51 16 00-0477 EA 4" Polypropylene-UV Black Flue/Vent Termination Tee .....	224.80	34.79
23 51 16 00-0478 EA 5" Polypropylene-UV Black Flue/Vent Termination Tee .....	246.99	36.21
23 51 16 00-0479 EA 2" x 20" Polypropylene-UV Black Flue/Vent End Pipe .....	54.76	18.41
23 51 16 00-0480 EA 2" x 39" Polypropylene-UV Black Flue/Vent End Pipe .....	65.03	20.47
23 51 16 00-0481 EA 3" x 20" Polypropylene-UV Black Flue/Vent End Pipe .....	65.56	21.11
23 51 16 00-0482 EA 3" x 39" Polypropylene-UV Black Flue/Vent End Pipe .....	80.98	23.46
23 51 16 00-0483 EA 4" x 20" Polypropylene-UV Black Flue/Vent End Pipe .....	97.69	27.92
23 51 16 00-0484 EA 5" x 20" Polypropylene-UV Black Flue/Vent End Pipe .....	135.70	41.20
23 51 16 00-0485 EA 5" x 39" Polypropylene-UV Black Flue/Vent End Pipe .....	163.13	45.79
23 51 16 00-0486 EA 2" x 24" Polypropylene-UV Black Flue/Vent Vent Length .....	60.00	18.41
23 51 16 00-0487 EA 3" x 24" Polypropylene-UV Black Flue/Vent Vent Length .....	76.41	21.11
23 51 16 00-0488 EA 4" x 24" Polypropylene-UV Black Flue/Vent Vent Length .....	123.07	27.92
23 51 16 00-0489 EA 2" Polypropylene-UV Black Flue/Vent 45 Degree Elbow .....	66.30	21.25
23 51 16 00-0490 EA 3" Polypropylene-UV Black Flue/Vent 45 Degree Elbow .....	77.00	22.37
23 51 16 00-0491 EA 4" Polypropylene-UV Black Flue/Vent 45 Degree Elbow .....	94.81	23.19
23 51 16 00-0492 EA 2" Polypropylene-UV Black Flue/Vent 87 Degree Elbow .....	65.32	21.25
23 51 16 00-0493 EA 3" Polypropylene-UV Black Flue/Vent 87 Degree Elbow .....	76.35	22.37
23 51 16 00-0494 EA 4" Polypropylene-UV Black Flue/Vent 87 Degree Elbow .....	93.67	23.19
23 51 16 00-0495 EA 2" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent .....	41.62	10.63
23 51 16 00-0496 EA 3" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent .....	48.14	11.18





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0497 EA 4" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent.....	53.65	11.60
23 51 16 00-0498 EA 3" Stainless Steel Bird Screen For Polypropylene Flue/Vent.....	101.61	11.18
23 51 16 00-0499 EA 5" Stainless Steel Bird Screen For Polypropylene Flue/Vent.....	116.54	12.06
<b>23 51 16 00-0500 Polypropylene Flue/Vent Accessories (23 51 16 00-0372)</b>		
23 51 16 00-0501 EA 2" Spacer For Polypropylene Flue/Vent.....	21.18	5.32
23 51 16 00-0502 EA 3" Spacer For Polypropylene Flue/Vent.....	20.33	5.60
23 51 16 00-0503 EA 4" Spacer For Polypropylene Flue/Vent.....	20.95	5.79
23 51 16 00-0504 EA 5" Spacer For Polypropylene Flue/Vent.....	32.16	6.03
23 51 16 00-0505 EA 2" Flue Clamp For Polypropylene Flue/Vent.....	39.38	7.98
23 51 16 00-0506 EA 3" Flue Clamp For Polypropylene Flue/Vent.....	46.00	8.39
23 51 16 00-0507 EA 4" Flue Clamp For Polypropylene Flue/Vent.....	53.06	8.70
23 51 16 00-0508 EA 2" Support Clamp For Polypropylene Flue/Vent.....	37.57	7.98
23 51 16 00-0509 EA 4" Support Clamp For Polypropylene Flue/Vent.....	37.70	8.70
23 51 16 00-0510 EA 5" Support Clamp For Polypropylene Flue/Vent.....	45.50	9.05
23 51 16 00-0511 EA 3" Plastic Support Clamp For Polypropylene Flue/Vent.....	29.34	8.39
23 51 16 00-0512 EA 2" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	59.72	21.25
23 51 16 00-0513 EA 3" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	65.54	22.37
23 51 16 00-0514 EA 4" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	70.31	23.19
23 51 16 00-0515 EA 5" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	78.03	24.14
23 51 16 00-0516 EA 2" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	4.19	
23 51 16 00-0517 EA 3" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	4.69	
23 51 16 00-0518 EA 4" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	6.34	
23 51 16 00-0519 EA 5" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	10.48	
23 51 16 00-0520 EA 2" Connector Ring For Polypropylene Flue/Vent.....	17.79	5.32
23 51 16 00-0521 EA 3" Connector Ring For Polypropylene Flue/Vent.....	20.02	5.60
23 51 16 00-0522 EA 4" Connector Ring For Polypropylene Flue/Vent.....	21.49	5.79
23 51 16 00-0523 EA 5" Connector Ring For Polypropylene Flue/Vent.....	23.65	6.03
23 51 16 00-0524 EA 2 1/4" Polypropylene Flue/Vent Air Intake, White.....	84.92	10.63
23 51 16 00-0525 EA 3 1/5" Polypropylene Flue/Vent Air Intake, White.....	87.14	11.18
23 51 16 00-0526 EA 4 1/6" Polypropylene Flue/Vent Air Intake, White.....	65.63	11.60
23 51 16 00-0527 EA 2" Base Support For Polypropylene Flue/Vent.....	73.48	7.98
23 51 16 00-0528 EA 3" Base Support For Polypropylene Flue/Vent.....	75.84	8.39
23 51 16 00-0529 EA 4" Base Support For Polypropylene Flue/Vent.....	101.11	8.70
23 51 16 00-0530 EA 5" Base Support For Polypropylene Flue/Vent.....	169.80	9.05
<b>23 51 16 00-0531 Polypropylene Flue/Vent Flex Pipe (23 51 16 00-0372)</b>		
23 51 16 00-0532 LF 2", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	13.38	1.87
23 51 16 00-0533 LF 2", > 50', Polypropylene Flue/Vent Flex Pipe.....	11.64	1.87
23 51 16 00-0534 LF 3", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	16.41	2.20
23 51 16 00-0535 LF 3", > 50', Polypropylene Flue/Vent Flex Pipe.....	14.23	2.20
23 51 16 00-0536 LF 4", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	23.55	2.72
23 51 16 00-0537 LF 4", > 50', Polypropylene Flue/Vent Flex Pipe.....	20.20	2.72
<b>23 51 16 00-0538 Polypropylene Flue/Vent Couplers (23 51 16 00-0372)</b>		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0539 EA 2" Polypropylene Flue/Vent Coupler, Single Wall to Flex.....	96.38	21.25
23 51 16 00-0540 EA 2" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	107.28	21.25
23 51 16 00-0541 EA 3" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	212.91	22.37
23 51 16 00-0542 EA 4" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	384.30	23.19
23 51 16 00-0543 EA 2" Polypropylene Flue/Vent Coupler, Flex to Flex.....	110.49	21.25
23 51 16 00-0544 EA 3" Polypropylene Flue/Vent Coupler, Flex to Flex.....	252.72	22.37
23 51 16 00-0545 EA 4" Polypropylene Flue/Vent Coupler, Flex to Flex.....	645.35	23.19
<b>23 51 16 00-0546 Polypropylene Flue/Vent Flex End Terminations (23 51 16 00-0372)</b>		
23 51 16 00-0547 EA 2" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	124.96	21.25
23 51 16 00-0548 EA 3" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	116.17	22.37
23 51 16 00-0549 EA 4" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	142.47	23.19
<b>23 51 16 00-0550 Aluminum Flue/Vent Fittings (23 51 16)</b>		
<b>23 51 16 00-0551 Aluminum Vent Top Caps (23 51 16 00-0550)</b>		
23 51 16 00-0552 EA 3" Aluminum Vent Cap (Star-Kap® 3-SK).....	119.15	21.07
23 51 16 00-0553 EA 4" Aluminum Vent Cap (Star-Kap® 4-SK).....	126.65	20.65
23 51 16 00-0554 EA 5" Aluminum Vent Cap (Star-Kap® 5-SK).....	137.19	21.63
23 51 16 00-0555 EA 6" Aluminum Vent Cap (Star-Kap® 6-SK).....	189.71	22.63
23 51 16 00-0556 EA 8" Aluminum Vent Cap (Star-Kap® 8-SK).....	212.15	25.17
23 51 16 00-0557 EA 10" Aluminum Vent Cap (Star-Kap® 10-SK).....	595.76	26.58
23 51 16 00-0558 EA 12" Aluminum Vent Cap (Star-Kap® 12-SK).....	610.79	28.28

**23 52 Heating Boilers (23 50)**  
**23 52 13 Electric Boilers (23 52)**

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 52 Heating Boilers**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**23 52 13 00-0001**

**Packaged Electric Steam Boiler** (23 52 13)

Note: Includes burners, standard controls and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Rated by KW and MBH output.

23 52 13 00-0002	EA	12 KW, 42 MBH Electric Steam Boiler With Packaged Standard Controls	8,788.17	846.23
23 52 13 00-0003	EA	24 KW, 84 MBH Electric Steam Boiler With Packaged Standard Controls	9,496.65	987.27
23 52 13 00-0004	EA	36 KW, 126 MBH Electric Steam Boiler With Packaged Standard Controls	10,129.56	1,057.79
23 52 13 00-0005	EA	48 KW, 168 MBH Electric Steam Boiler With Packaged Standard Controls	11,222.49	1,128.31
23 52 13 00-0006	EA	60 KW, 210 MBH Electric Steam Boiler With Packaged Standard Controls	12,290.82	1,198.83
23 52 13 00-0007	EA	80 KW, 280 MBH Electric Steam Boiler With Packaged Standard Controls	14,294.30	1,339.87
23 52 13 00-0008	EA	100 KW, 350 MBH Electric Steam Boiler With Packaged Standard Controls	16,297.92	1,480.91
23 52 13 00-0009	EA	120 KW, 420 MBH Electric Steam Boiler With Packaged Standard Controls	17,017.64	1,551.43
23 52 13 00-0010	EA	140 KW, 490 MBH Electric Steam Boiler With Packaged Standard Controls	18,046.52	1,621.95
23 52 13 00-0011	EA	160 KW, 560 MBH Electric Steam Boiler With Packaged Standard Controls	23,272.48	1,762.99
23 52 13 00-0012	EA	180 KW, 630 MBH Electric Steam Boiler With Packaged Standard Controls	24,227.26	1,833.51
23 52 13 00-0013	EA	200 KW, 700 MBH Electric Steam Boiler With Packaged Standard Controls	24,958.13	1,832.06
23 52 13 00-0014	EA	220 KW, 770 MBH Electric Steam Boiler With Packaged Standard Controls	25,993.88	1,967.76
23 52 13 00-0015	EA	240 KW, 840 MBH Electric Steam Boiler With Packaged Standard Controls	28,014.50	2,103.47
23 52 13 00-0016	EA	260 KW, 910 MBH Electric Steam Boiler With Packaged Standard Controls	30,157.58	2,307.03
23 52 13 00-0017	EA	280 KW, 980 MBH Electric Steam Boiler With Packaged Standard Controls	32,101.83	2,374.89
23 52 13 00-0018	EA	300 KW, 1,050 MBH Electric Steam Boiler With Packaged Standard Controls	33,622.54	2,442.74
23 52 13 00-0019	EA	320 KW, 1,120 MBH Electric Steam Boiler With Packaged Standard Controls	35,914.30	2,510.60
23 52 13 00-0020	EA	360 KW, 1,260 MBH Electric Steam Boiler With Packaged Standard Controls	38,206.74	2,578.45
23 52 13 00-0021	EA	400 KW, 1,400 MBH Electric Steam Boiler With Packaged Standard Controls	40,874.42	2,714.15
23 52 13 00-0022	EA	460 KW, 1,610 MBH Electric Steam Boiler With Packaged Standard Controls	43,637.08	2,849.86
23 52 13 00-0023	EA	500 KW, 1,750 MBH Electric Steam Boiler With Packaged Standard Controls	46,331.89	2,917.72
23 52 13 00-0024	EA	600 KW, 2,100 MBH Electric Steam Boiler With Packaged Standard Controls	51,137.62	2,985.57
23 52 13 00-0025	EA	700 KW, 2,450 MBH Electric Steam Boiler With Packaged Standard Controls	55,071.27	3,121.28
23 52 13 00-0026	EA	756 KW, 2,646 MBH Electric Steam Boiler With Packaged Standard Controls	56,405.11	3,256.99
23 52 13 00-0027	EA	828 KW, 2,898 MBH Electric Steam Boiler With Packaged Standard Controls	61,807.62	3,460.55
23 52 13 00-0028	EA	936 KW, 3,276 MBH Electric Steam Boiler With Packaged Standard Controls	63,887.68	3,664.11
23 52 13 00-0029	EA	1,008 KW, 3,528 MBH Electric Steam Boiler With Packaged Standard Controls	66,103.44	3,867.68
23 52 13 00-0030	EA	1,116 KW, 3,906 MBH Electric Steam Boiler With Packaged Standard Controls	70,036.57	4,071.24
23 52 13 00-0031	EA	1,224 KW, 4,284 MBH Electric Steam Boiler With Packaged Standard Controls	71,799.75	4,206.94
23 52 13 00-0032	EA	1,368 KW, 4,788 MBH Electric Steam Boiler With Packaged Standard Controls	74,105.42	4,478.36
23 52 13 00-0033	EA	1,440 KW, 5,040 MBH Electric Steam Boiler With Packaged Standard Controls	76,637.39	4,749.78
23 52 13 00-0034	EA	1,512 KW, 5,292 MBH Electric Steam Boiler With Packaged Standard Controls	83,509.27	5,021.19
23 52 13 00-0035	EA	1,620 KW, 5,670 MBH Electric Steam Boiler With Packaged Standard Controls	87,985.24	5,292.61

**23 52 13 00-0036**

**Packaged Electric Hot Water Boiler** (23 52 13)

Note: Flush jacketed steel shell. Includes burners, and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Rated by KW and MBH output.

23 52 13 00-0037	EA	9 KW, 31 MBH, Electric Hot Boiler With Packaged Standard Controls	7,751.01	775.71
23 52 13 00-0038	EA	12 KW, 41 MBH, Electric Hot Boiler With Packaged Standard Controls	8,125.39	846.23
23 52 13 00-0039	EA	18 KW, 61 MBH, Electric Hot Boiler With Packaged Standard Controls	8,499.73	916.75
23 52 13 00-0040	EA	24 KW, 82 MBH, Electric Hot Boiler With Packaged Standard Controls	8,884.43	987.27
23 52 13 00-0041	EA	36 KW, 123 MBH, Electric Hot Boiler With Packaged Standard Controls	9,343.65	1,057.79
23 52 13 00-0042	EA	48 KW, 164 MBH, Electric Hot Boiler With Packaged Standard Controls	9,652.48	1,128.31
23 52 13 00-0043	EA	60 KW, 205 MBH Electric Hot Boiler With Packaged Standard Controls	10,026.82	1,198.83
23 52 13 00-0044	EA	72 KW, 246 MBH Electric Hot Boiler With Packaged Standard Controls	10,588.34	1,269.35
23 52 13 00-0045	EA	84 KW, 287 MBH Electric Hot Boiler With Packaged Standard Controls	11,153.58	1,339.87
23 52 13 00-0046	EA	90 KW, 307 MBH Electric Hot Boiler With Packaged Standard Controls	11,453.05	1,410.39
23 52 13 00-0047	EA	105 KW, 358 MBH Electric Hot Boiler With Packaged Standard Controls	12,322.31	1,480.91
23 52 13 00-0048	EA	120 KW, 409 MBH Electric Hot Boiler With Packaged Standard Controls	13,166.38	1,551.43
23 52 13 00-0049	EA	135 KW, 461 MBH Electric Hot Boiler With Packaged Standard Controls	14,714.01	1,621.95
23 52 13 00-0050	EA	150 KW, 512 MBH Electric Hot Boiler With Packaged Standard Controls	15,782.69	1,692.47
23 52 13 00-0051	EA	165 KW, 563 MBH Electric Hot Boiler With Packaged Standard Controls	16,637.80	1,762.99
23 52 13 00-0052	EA	180 KW, 614 MBH Electric Hot Boiler With Packaged Standard Controls	17,943.64	1,833.51
23 52 13 00-0053	EA	195 KW, 665 MBH Electric Hot Boiler With Packaged Standard Controls	19,040.27	1,832.06
23 52 13 00-0054	EA	225 KW, 768 MBH Electric Hot Boiler With Packaged Standard Controls	20,411.29	1,967.76
23 52 13 00-0055	EA	240 KW, 819 MBH Electric Hot Boiler With Packaged Standard Controls	21,927.39	2,103.47
23 52 13 00-0056	EA	270 KW, 921 MBH Electric Hot Boiler With Packaged Standard Controls	23,434.13	2,307.03
23 52 13 00-0057	EA	300 KW, 1,024 MBH Electric Hot Boiler With Packaged Standard Controls	24,950.22	2,442.74
23 52 13 00-0058	EA	330 KW, 1,126 MBH Electric Hot Boiler With Packaged Standard Controls	26,407.85	2,578.45
23 52 13 00-0059	EA	360 KW, 1,228 MBH Electric Hot Boiler With Packaged Standard Controls	28,544.00	2,646.30
23 52 13 00-0060	EA	390 KW, 1,331 MBH Electric Hot Boiler With Packaged Standard Controls	30,392.34	2,714.15
23 52 13 00-0061	EA	420 KW, 1,433 MBH Electric Hot Boiler With Packaged Standard Controls	32,165.80	2,849.86
23 52 13 00-0062	EA	450 KW, 1,535 MBH Electric Hot Boiler With Packaged Standard Controls	34,012.06	2,849.86
23 52 13 00-0063	EA	504 KW, 1,720 MBH Electric Hot Boiler With Packaged Standard Controls	37,196.45	2,917.72
23 52 13 00-0064	EA	612 KW, 2,088 MBH Electric Hot Boiler With Packaged Standard Controls	38,876.64	2,985.57
23 52 13 00-0065	EA	684 KW, 2,334 MBH Electric Hot Boiler With Packaged Standard Controls	41,084.60	3,121.28
23 52 13 00-0066	EA	720 KW, 2,457 MBH Electric Hot Boiler With Packaged Standard Controls	42,670.85	3,189.14
23 52 13 00-0067	EA	750 KW, 2,559 MBH Electric Hot Boiler With Packaged Standard Controls	44,264.06	3,256.99
23 52 13 00-0068	EA	810 KW, 2,764 MBH Electric Hot Boiler With Packaged Standard Controls	45,493.04	3,460.55
23 52 13 00-0069	EA	900 KW, 3,071 MBH Electric Hot Boiler With Packaged Standard Controls	47,673.47	3,664.11
23 52 13 00-0070	EA	1,020 KW, 3,480 MBH Electric Hot Boiler With Packaged Standard Controls	55,227.36	3,867.68
23 52 13 00-0071	EA	1,110 KW, 3,787 MBH Electric Hot Boiler With Packaged Standard Controls	60,513.60	4,071.24
23 52 13 00-0072	EA	1,200 KW, 4,094 MBH Electric Hot Boiler With Packaged Standard Controls	62,763.72	4,206.94
23 52 13 00-0073	EA	1350 KW, 4,606 MBH Electric Hot Boiler With Packaged Standard Controls	65,306.90	4,478.36
23 52 13 00-0074	EA	1,440 KW, 4,913 MBH Electric Hot Boiler With Packaged Standard Controls	67,850.09	4,749.78
23 52 13 00-0075	EA	1,560 KW, 5,323 MBH Electric Hot Boiler With Packaged Standard Controls	74,995.33	5,021.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 13 00-0076 EA 1,680 KW, 5,732 MBH Electric Hot Boiler With Packaged Standard Controls.....	79,655.91	5,292.61
23 52 13 00-0077 EA 1,740 KW, 5,937 MBH Electric Hot Boiler With Packaged Standard Controls.....	81,637.59	5,428.32
23 52 13 00-0078 EA 1,800 KW, 6,142 MBH Electric Hot Boiler With Packaged Standard Controls.....	83,619.26	5,564.03
23 52 13 00-0079 EA 1,980 KW, 6,756 MBH Electric Hot Boiler With Packaged Standard Controls.....	84,162.09	5,767.58
23 52 13 00-0080 EA 2,100 KW, 7,165 MBH Electric Hot Boiler With Packaged Standard Controls.....	90,268.55	5,903.29
23 52 13 00-0081 EA 2,220 KW, 7,575 MBH Electric Hot Boiler With Packaged Standard Controls.....	94,367.62	6,106.86
23 52 13 00-0082 EA 2,600 KW, 8,871 MBH Electric Hot Boiler With Packaged Standard Controls.....	101,339.80	6,513.98
23 52 13 00-0083 EA 2,960 KW, 10,100 MBH Electric Hot Boiler With Packaged Standard Controls.....	109,439.76	7,192.51
23 52 13 00-0084 EA 3,240 KW, 11,055 MBH Electric Hot Boiler With Packaged Standard Controls.....	118,864.02	8,006.76
23 52 13 00-0085 EA 3,360 KW, 11,464 MBH Electric Hot Boiler With Packaged Standard Controls.....	125,836.20	8,821.01

**23 52 16 Condensing Boilers (23 52)**

**23 52 16 13 Stainless-Steel Condensing Boilers (23 52 16)**

**23 52 16 13-0001 Hamilton Evo Series Stainless Steel Condensing Boilers (23 52 16 13)**

Note: Includes circulating pump, mounting rack, disconnect panel, plumbing and gas manifold, manual reset high limit and LWCO (Cal Code).

23 52 16 13-0002 EA 75 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW79).....	12,887.32	564.16
23 52 16 13-0003 EA 127 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW129).....	13,729.24	751.46
23 52 16 13-0004 EA 168 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW179).....	14,670.58	846.09
23 52 16 13-0005 EA 187 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW199.1).....	15,549.11	893.20
23 52 16 13-0006 EA 281 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW299).....	20,427.50	1,034.24
23 52 16 13-0007 EA 374 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW399).....	23,598.89	1,128.17
23 52 16 13-0008 EA 589 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW599).....	31,742.27	1,316.18
23 52 16 13-0009 EA 785 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW798).....	43,909.93	1,504.32
Note: Includes vent manifold.		
23 52 16 13-0010 EA 980 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW998).....	53,569.25	1,645.36
Note: Includes vent manifold.		
23 52 16 13-0011 EA 1,425 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1499).....	77,044.62	1,927.30
23 52 16 13-0012 EA 1,900 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1999).....	84,866.60	2,068.34

**23 52 16 13-0013 Buderus SB615 Stainless Steel Condensing Boilers (23 52 16 13)**

Note: Includes Riello burners. Capacity given is IBR rating.

23 52 16 13-0014 EA 484 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/145).....	39,350.78	1,222.25
23 52 16 13-0015 EA 612 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/185).....	41,285.02	1,316.18
23 52 16 13-0016 EA 791 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/240).....	46,031.45	1,504.32
23 52 16 13-0017 EA 1,022 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/310).....	49,899.95	1,692.33
23 52 16 13-0018 EA 1,317 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/400).....	55,463.14	1,833.37
23 52 16 13-0019 EA 1,459 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/510).....	63,294.44	1,927.30
23 52 16 13-0020 EA 2,104 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/640).....	75,526.78	2,068.34

**23 52 16 13-0021 Buderus SB735 Stainless Steel Condensing Boilers (23 52 16 13)**

Note: Includes Riello burners.

23 52 16 13-0022 EA 484 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/790).....	79,560.22	2,256.34
23 52 16 13-0023 EA 3,251 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/970).....	91,974.01	2,350.42
23 52 16 13-0024 EA 4,079 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/1200).....	106,445.67	2,444.49

**23 52 16 13-0025 Laars Neotherm Stainless Steel Condensing Boiler (23 52 16 13)**

Note: Compliant with SCAQMD. Rated by gross rated input.

23 52 16 13-0026 EA 80 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH080).....	8,409.26	611.12
23 52 16 13-0027 EA 105 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH105).....	9,605.07	705.20
23 52 16 13-0028 EA 150 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH150).....	10,804.36	846.09
23 52 16 13-0029 EA 210 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH210).....	12,031.04	940.17
23 52 16 13-0030 EA 285 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH285).....	15,023.56	1,034.24
23 52 16 13-0031 EA 399 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH399).....	19,459.24	1,128.17
23 52 16 13-0032 EA 500 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH500).....	23,277.67	1,222.25
23 52 16 13-0033 EA 600 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH600).....	25,810.14	1,316.18
23 52 16 13-0034 EA 750 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH750).....	28,021.13	1,410.25
23 52 16 13-0035 EA 850 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH850).....	30,514.21	1,598.26
23 52 16 13-0036 EA 1,000 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1000).....	42,983.78	1,692.33
23 52 16 13-0037 EA 1,700 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1700).....	56,935.20	1,974.41
23 52 16 13-0038 EA 150 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV150).....	19,087.87	846.09
23 52 16 13-0039 EA 199 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV199).....	21,997.86	1,128.31
23 52 16 13-0040 EA 285 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV285).....	28,715.70	1,269.35
23 52 16 13-0041 EA 399 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV399).....	36,043.92	1,551.43
23 52 16 13-0042 EA 500 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV500).....	42,532.29	1,692.47
23 52 16 13-0043 EA 600 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV600).....	48,065.84	1,833.51
23 52 16 13-0044 EA 750 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV750).....	57,613.14	1,974.55
23 52 16 13-0045 EA 850 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV850).....	63,823.02	2,115.59
23 52 16 13-0046 EA 1,000 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV1000).....	83,737.56	2,256.63
23 52 16 13-0047 EA 1,700 MBH Gas Fired Condensing Volume Water Heater (Laars Neotherm NTV1700).....	112,537.78	2,961.82

**23 52 16 13-0048 AERCO Benchmark Stainless-Steel Condensing Boilers (23 52 16 13)**

23 52 16 13-0049 EA 1,500 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK1.5LN).....	66,526.12	1,927.30
Note: Includes gas PRV and pump delay relay.		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 13-0050 EA 2,000 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK2.0LN) .....	78,995.62	2,068.34
Note: Includes gas PRV and pump delay relay.		
23 52 16 13-0051 EA 3,000 MBH Water, 220 Volt, 1 Phase, 230 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000).....	113,737.18	2,303.45
Note: Includes gas PRV and pump delay relay.		
23 52 16 13-0052 EA 3,000 MBH Water, 480 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000).....	121,218.93	2,303.45
Note: Includes gas PRV and pump delay relay.		
<b>23 52 16 13-0053 Lochinvar Knight Stainless Steel Condensing Boilers (23 52 16 13)</b>		
Note: Rated by gross rated output.		
23 52 16 13-0054 EA 184 MBH 95% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN211) .....	11,656.54	846.09
23 52 16 13-0055 EA 264 MBH 95% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KHB285N) .....	14,959.54	940.17
<b>23 52 16 13-0056 Lochinvar Knight XL Stainless Steel Condensing Boilers (23 52 16 13)</b>		
Note: Rated by gross rated output.		
23 52 16 13-0057 EA 387 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0400N).....	16,999.80	1,081.21
23 52 16 13-0058 EA 485 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0500N).....	21,018.59	1,128.17
23 52 16 13-0059 EA 631 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0650N).....	25,665.75	1,222.25
23 52 16 13-0060 EA 776 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX0800N).....	30,621.26	1,269.21
23 52 16 13-0061 EA 969 MBH 97% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBX1000N).....	37,294.48	1,363.28
<b>23 52 16 13-0062 Lochinvar Crest Stainless Steel Condensing Boilers (23 52 16 13)</b>		
Note: Rated by gross rated output.		
23 52 16 13-0063 EA 1,203 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1251).....	47,166.42	1,597.98
23 52 16 13-0064 EA 1,443 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1501).....	48,826.94	1,833.37
23 52 16 13-0065 EA 1,684 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1751).....	53,481.19	1,950.57
23 52 16 13-0066 EA 1,923 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2001).....	58,135.44	2,068.34
23 52 16 13-0067 EA 2,400 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2501).....	68,002.19	2,162.41
23 52 16 13-0068 EA 2,883 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3001).....	75,232.37	2,256.34
23 52 16 13-0069 EA 3,364 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3501).....	92,109.56	2,350.42
23 52 16 13-0070 EA 3,843 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN4001).....	101,654.56	2,444.35
23 52 16 13-0071 EA 4,804 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN5001).....	124,363.94	2,538.28
<b>23 52 16 13-0072 Patterson Kelley Stainless Steel Condensing Boilers (23 52 16 13)</b>		
<b>23 52 16 13-0073 Patterson Kelley Stainless Steel Condensing Boilers, SOLIS® Series (23 52 16 13-0072)</b>		
23 52 16 13-0074 EA 1,500 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Patterson-Kelley SOLIS® SL-1500) .....	48,739.86	1,927.30
23 52 16 13-0075 EA 3,000 MBH 96% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Patterson-Kelley SOLIS® SL-3000) .....	74,541.59	2,303.45
<b>23 52 16 13-0076 Patterson Kelley Stainless Steel Condensing Boilers, SONIC® Series (23 52 16 13-0072)</b>		
23 52 16 13-0077 EA 650 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-650 SCD-650).....	25,617.91	1,363.28
23 52 16 13-0078 EA 1,000 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-1000 SCD-1000).....	30,832.11	1,692.33
23 52 16 13-0079 EA 2,000 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-2000).....	51,817.10	2,068.34
23 52 16 13-0080 EA 4,000 MBH 97% Efficient, Gas Fired, Dual Fuel, Stainless Steel Condensing Boiler (Patterson-Kelley SONIC® SC-4000).....	88,333.55	2,444.49
<b>23 52 16 13-0081 Patterson Kelley Stainless Steel Condensing Boilers, STORM® Series (23 52 16 13-0072)</b>		
23 52 16 13-0082 EA 1,250 MBH 97% Efficient, Gas Fired, Stainless Steel Condensing Boiler (Patterson-Kelley STORM® ST1250).....	37,405.42	1,786.26
23 52 16 13-0083 EA 2,000 MBH 97% Efficient, Gas Fired, Stainless Steel Condensing Boiler (Patterson-Kelley STORM® ST2000).....	61,057.33	2,068.34
23 52 16 13-0084 EA 4,000 MBH 97% Efficient, Gas Fired, Stainless Steel Condensing Boiler (Patterson-Kelley STORM® ST4000).....	90,299.55	2,444.49
<b>23 52 16 16 Aluminum Condensing Boilers (23 52 16)</b>		
<b>23 52 16 16-0001 Weil McLain Aluminum Condensing Boilers (23 52 16 16)</b>		
23 52 16 16-0002 EA 80 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) .....	9,394.88	611.12
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0003 EA 105 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) .....	10,365.40	705.20
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0004 EA 155 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) .....	11,706.43	846.09
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0005 EA 230 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80) .....	13,135.91	940.17
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 52 16 16-0006	EA 310 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80)..... Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.	17,001.23	1,081.21
	<b>23 52 16 16-0007</b>	<b>Patterson Kelley Mach Series Aluminum Condensing Boilers (23 52 16 16)</b> Note: Rated by gross rated output.		
	23 52 16 16-0008	EA 300 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach CM300).....	16,785.94	1,034.24
	23 52 16 16-0009	EA 450 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C450).....	18,844.71	1,175.28
	23 52 16 16-0010	EA 750 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C750).....	21,491.56	1,410.25
	23 52 16 16-0011	EA 900 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C900).....	31,294.71	1,598.26
	23 52 16 16-0012	EA 1,050 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C1050).....	32,716.55	1,692.33
	23 52 16 16-0013	EA 1,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C1500).....	49,982.95	1,927.30
	23 52 16 16-0014	EA 2,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C2000).....	54,104.30	2,068.34
	23 52 16 16-0015	EA 2,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C2500).....	79,928.65	2,256.34
	23 52 16 16-0016	EA 3,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C3000).....	92,585.64	2,303.45
	23 52 16 16-0017	EA 4,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelley Mach C4000).....	105,237.84	2,444.49
	<b>23 52 16 16-0018</b>	<b>Buderus GB142 Wall Hung Aluminum Condensing Boilers (23 52 16 16)</b> Note: Includes standard controls.		
	23 52 16 16-0019	EA 75 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/24)..... Note: Includes an aluminum heat exchanger and three speed circulating pump.	7,217.33	564.16
	23 52 16 16-0020	EA 95 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/30)..... Note: Includes an aluminum heat exchanger and three speed circulating pump.	8,383.50	658.09
	23 52 16 16-0021	EA 143 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/45)..... Note: Includes an aluminum heat exchanger and three speed circulating pump.	9,687.77	799.13
	23 52 16 16-0022	EA 193 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/60)..... Note: Includes an aluminum heat exchanger and three speed circulating pump.	10,614.56	893.20
	23 52 16 16-0023	EA Optional Vertical Or Horizontal 3" Concentric Termination Kit For GB142 (Buderus 60L46).....	403.97	141.04
	23 52 16 16-0024	EA Optional Stainless Steel Concentric Hood For GB142 (Buderus SJT3).....	505.31	141.04
	23 52 16 16-0025	EA Optional GB Floor Stand For GB142 (Buderus 7098265).....	992.88	141.04
	<b>23 52 16 16-0026</b>	<b>Buderus GB162 Wall Hung Aluminum Condensing Boilers (23 52 16 16)</b> Note: Includes standard controls.		
	23 52 16 16-0027	EA 290 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/80)..... Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.	12,012.06	1,034.24
	23 52 16 16-0028	EA 333 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/100)..... Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.	14,713.21	1,081.21
	23 52 16 16-0029	EA 580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/80-TL2)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	27,966.50	1,269.21
	23 52 16 16-0030	EA 580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/80-TR2)..... Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	26,180.44	1,269.21
	23 52 16 16-0031	EA 666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/100-TL2)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	33,368.80	1,363.28
	23 52 16 16-0032	EA 666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/100-TR2)..... Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	31,582.74	1,363.28
	23 52 16 16-0033	EA 870 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/80-TL3)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	38,802.68	1,598.26
	23 52 16 16-0034	EA 999 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/100-TL3)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	46,765.10	1,692.33
	23 52 16 16-0035	EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/80-TL4)..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	48,093.82	1,786.26
	23 52 16 16-0036	EA 1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/80-TR4)..... Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	48,809.14	1,786.26

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 16-0037 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/100-TL4) ..... Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	58,475.30	1,833.37
23 52 16 16-0038 EA 1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/100-TR4) ..... Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.	59,190.63	1,833.37
23 52 16 16-0039 EA EMS Control Module For Condensing Boiler (Buderus RC35) .....	794.62	141.04
<b>23 52 16 16-0040 Buderus GB312 Aluminum Condensing Boilers (23 52 16 16)</b> Note: Includes standard controls.		
23 52 16 16-0041 EA 305 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/90)..... Note: Includes an aluminum heat exchanger.	16,955.39	1,034.24
23 52 16 16-0042 EA 409 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/120)..... Note: Includes an aluminum heat exchanger.	19,727.66	1,128.17
23 52 16 16-0043 EA 544 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/160)..... Note: Includes an aluminum heat exchanger.	24,620.98	1,245.66
23 52 16 16-0044 EA 676 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/200)..... Note: Includes an aluminum heat exchanger.	28,263.22	1,363.28
23 52 16 16-0045 EA 810 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/240)..... Note: Includes an aluminum heat exchanger.	33,738.31	1,504.32
23 52 16 16-0046 EA 944 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/280)..... Note: Includes an aluminum heat exchanger.	37,245.48	1,645.36
23 52 16 16-0047 EA Optional CSD-1 Kit Consisting Of High And Low Gas Pressure Switches For GB312 (Buderus 7747019985).....	526.55	70.52
23 52 16 16-0048 EA Optional L4006E1125 Manual Reset Aquastat For GB312 (Buderus L4006E1125).....	302.59	70.52
23 52 16 16-0049 EA Optional Hydrolevel 550 low Water Cut-Off For GB312 (Buderus 550).....	415.67	70.52
23 52 16 16-0050 EA Optional Condensate Neutralization Tank For GB312 (Buderus 63035899).....	835.69	70.52
<b>23 52 16 19 Copper Water-Tube Condensing Boilers (23 52 16)</b>		
<b>23 52 16 19-0001 Laars Rheos+ Copper Fin Tube Condensing Boilers (23 52 16 19)</b>		
23 52 16 19-0002 EA 1,200 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	46,842.54	1,786.26
23 52 16 19-0003 EA 1,600 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	52,791.01	1,974.41
23 52 16 19-0004 EA 2,000 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	57,710.34	2,068.34
23 52 16 19-0005 EA 2,400 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	62,233.79	2,162.41
<b>23 52 16 23 Cast Iron Condensing Boilers (23 52 16)</b>		
<b>23 52 16 23-0001 Hydrotherm KN Cast Iron Condensing Boilers (23 52 16 23)</b> Note: Rated by gross rated output.		
23 52 16 23-0002 EA 199 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-2).....	16,655.35	893.20
23 52 16 23-0003 EA 399 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-4).....	24,266.14	1,128.17
23 52 16 23-0004 EA 600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-6).....	39,552.97	1,316.18
23 52 16 23-0005 EA 1,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-10).....	51,895.29	1,692.33
23 52 16 23-0006 EA 1,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-16).....	88,758.93	1,974.41
23 52 16 23-0007 EA 1,999 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-20).....	75,213.77	2,068.34
23 52 16 23-0008 EA 2,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-26).....	123,275.95	2,256.34
23 52 16 23-0009 EA 3,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-30).....	134,762.15	2,303.45
<b>23 52 23 Cast-Iron Boilers (23 52)</b>		
<b>23 52 23 00-0001 Weil-McLain Model 80 Cast Iron Boiler (23 52 23)</b> Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
<b>23 52 23 00-0002 Gas Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)</b> Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0003 EA 209 MBH Steam, 242 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 380)..... Note: Includes field assembly of individual sections and testing.	16,679.68	3,272.52
23 52 23 00-0004 EA 297 MBH Steam, 344 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 480)..... Note: Includes field assembly of individual sections and testing.	18,229.60	3,490.69
23 52 23 00-0005 EA 386 MBH Steam, 448 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 580)..... Note: Includes field assembly of individual sections and testing.	19,925.23	3,708.86
23 52 23 00-0006 EA 476 MBH Steam, 551 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 680)..... Note: Includes field assembly of individual sections and testing.	21,502.67	3,927.03
23 52 23 00-0007 EA 565 MBH Steam, 655 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 780)..... Note: Includes field assembly of individual sections and testing.	22,960.07	4,145.19
23 52 23 00-0008 EA 654 MBH Steam, 758 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 880)..... Note: Includes field assembly of individual sections and testing.	24,952.18	4,363.37
23 52 23 00-0009 EA 743 MBH Steam, 862 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 980)..... Note: Includes field assembly of individual sections and testing.	26,493.63	4,581.53
23 52 23 00-0010 EA 833 MBH Steam, 965 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1080)..... Note: Includes field assembly of individual sections and testing.	27,719.03	4,799.70
23 52 23 00-0011 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1180)..... Note: Includes field assembly of individual sections and testing.	28,939.94	5,017.87
23 52 23 00-0012 EA 1,018 MBH Steam, 1,172 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1280)..... Note: Includes field assembly of individual sections and testing.	30,348.52	5,236.04



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 52 23 00-0013 Gas Fired Package Weil-McLain Model 80 Cast Iron Boiler</b> <small>(23 52 23 00-0001)</small>				
	EA	209 MBH Steam, 242 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 380)..... Note: Fire tested factory assembled package unit.	12,165.86	542.83
	EA	297 MBH Steam, 344 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 480)..... Note: Fire tested factory assembled package unit.	13,480.79	542.83
	EA	386 MBH Steam, 448 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 580)..... Note: Fire tested factory assembled package unit.	15,486.75	678.54
	EA	476 MBH Steam, 551 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 680)..... Note: Fire tested factory assembled package unit.	16,827.51	678.54
	EA	565 MBH Steam, 655 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 780)..... Note: Fire tested factory assembled package unit.	18,595.53	814.25
	EA	654 MBH Steam, 758 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 880)..... Note: Fire tested factory assembled package unit.	20,368.71	814.25
	EA	743 MBH Steam, 862 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 980)..... Note: Fire tested factory assembled package unit.	22,218.32	949.96
	EA	833 MBH Steam, 965 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1080)..... Note: Fire tested factory assembled package unit.	23,752.44	1,085.67
	EA	922 MBH Steam, 1,069 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1180)..... Note: Fire tested factory assembled package unit.	24,741.01	1,085.67
	EA	1018 MBH Steam, 1172 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1280)..... Note: Fire tested factory assembled package unit.	26,456.00	1,221.37
<b>23 52 23 00-0024 Gas/Oil Fired Weil-McLain Model 80 Cast Iron Boiler</b> <small>(23 52 23 00-0001)</small>				
	Note: Field assembled boilers can only be used in situations where package units cannot be installed.			
	EA	209 MBH Steam, 242 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 380) ..... Note: Includes field assembly of individual sections and testing.	17,447.97	3,272.52
	EA	297 MBH Steam, 344 MBH Water Gas/Oil Fired Cast Iron Boiler ..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	19,135.23	3,490.69
	EA	386 MBH Steam, 448 MBH Water Gas/Oil Fired Cast Iron Boiler ..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	20,747.91	3,708.86
	EA	476 MBH Steam, 551 MBH Water Gas/Oil Fired Cast Iron Boiler ..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	22,548.35	3,927.03
	EA	565 MBH Steam, 655 MBH Water Gas/Oil Fired Cast Iron Boiler ..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	24,034.31	4,145.19
	EA	654 MBH Steam, 758 MBH Water Gas/Oil Fired Cast Iron Boiler ..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	26,200.47	4,363.37
	EA	743 MBH Steam, 862 MBH Water Gas/Oil Fired Cast Iron Boiler ..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	27,565.16	4,581.53
	EA	833 MBH Steam, 965 MBH Water Gas/Oil Fired Cast Iron Boiler ..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	28,892.54	4,799.70
	EA	922 MBH Steam, 1069 MBH Water Gas/Oil Fired Cast Iron Boiler ..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	30,114.81	5,017.87
	EA	1,018 MBH Steam, 1172 MBH Water Gas/Oil Fired Cast Iron Boiler ..... Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	31,560.10	5,236.04
<b>23 52 23 00-0035 Gas/Oil Fired Package Weil-McLain Model 80 Cast Iron Boiler</b> <small>(23 52 23 00-0001)</small>				
	EA	209 MBH Steam, 242 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 380) ..... Note: Fire tested factory assembled package cast iron unit.	12,934.15	542.83
	EA	297 MBH Steam, 344 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 480) ..... Note: Fire tested factory assembled package cast iron unit.	14,386.41	542.83
	EA	386 MBH Steam, 448 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 580) ..... Note: Fire tested factory assembled package cast iron unit.	16,309.43	678.54
	EA	476 MBH Steam, 551 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 680) ..... Note: Fire tested factory assembled package cast iron unit.	17,873.20	678.54
	EA	565 MBH Steam, 655 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 780) ..... Note: Fire tested factory assembled package cast iron unit.	19,669.78	814.25
	EA	654 MBH Steam, 758 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 880) ..... Note: Fire tested factory assembled package cast iron unit.	21,617.01	814.25
	EA	743 MBH Steam, 862 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 980) ..... Note: Fire tested factory assembled package cast iron unit.	23,289.84	949.96
	EA	833 MBH Steam, 965 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1080) ..... Note: Fire tested factory assembled package cast iron unit.	24,925.94	1,085.67
	EA	922 MBH Steam, 1,069 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1180) ..... Note: Fire tested factory assembled package cast iron unit.	25,915.88	1,085.67
	EA	1,018 MBH Steam, 1,172 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1280) ..... Note: Fire tested factory assembled package cast iron unit.	27,667.58	1,221.37
<b>23 52 23 00-0046 Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23)</small>				
	Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.			
<b>23 52 23 00-0047 Gas Fired Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23 00-0046)</small>				
	Note: Field assembled boilers can only be used in situations where package units cannot be installed.			
	EA	629 MBH Steam, 730 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 488)..... Note: Includes field assembly of individual sections and testing.	27,085.62	4,908.78
	EA	845 MBH Steam, 979 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 588)..... Note: Includes field assembly of individual sections and testing.	29,900.72	5,208.76
	EA	1072 MBH Steam, 1229 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 688)..... Note: Includes field assembly of individual sections and testing.	33,382.19	5,508.75

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0051 EA 1,311 MBH Steam, 1,478 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 788).....	36,451.18	5,808.73
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0052 EA 1,543 MBH Steam, 1,728 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 888).....	39,121.25	6,108.70
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0053 EA 1,766 MBH Steam, 1,977 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 988).....	42,985.03	6,408.69
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0054 EA 1,988 MBH Steam, 2,227 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1088).....	45,680.07	6,708.67
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0055 EA 2,211 MBH Steam, 2,477 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1188).....	48,065.78	7,008.65
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0056 EA 2,434 MBH Steam, 2,726 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1288).....	51,246.57	7,308.63
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0057 EA 2,657 MBH Steam, 2,976 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1388).....	53,807.40	7,608.61
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0058 EA 2,880 MBH Steam, 3,225 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1488).....	58,030.86	7,908.59
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0059 EA 3,102 MBH Steam, 3,475 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1588).....	60,468.10	8,208.57
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0060 EA 3,325 MBH Steam, 3,724 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1688).....	63,052.40	8,508.56
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0061 EA 3,548 MBH Steam, 3,974 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1788).....	65,930.54	8,808.54
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0062 EA 3,771 MBH Steam, 4,223 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1888).....	68,274.61	9,108.51
Note: Includes field assembly of individual sections and testing.		
<b>23 52 23 00-0063 Gas Fired Package Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23 00-0046)</small>		
23 52 23 00-0064 EA 629 MBH Steam, 730 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 488).....	22,237.36	949.96
Note: Fire tested factory assembled package unit.		
23 52 23 00-0065 EA 845 MBH Steam, 979 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 588).....	25,227.82	1,085.67
Note: Fire tested factory assembled package unit.		
23 52 23 00-0066 EA 1,072 MBH Steam, 1,229 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 688).....	28,900.92	1,221.37
Note: Fire tested factory assembled package unit.		
23 52 23 00-0067 EA 1,311 MBH Steam, 1,478 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 788).....	32,132.07	1,357.08
Note: Fire tested factory assembled package unit.		
23 52 23 00-0068 EA 1,543 MBH Steam, 1,728 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 888).....	34,432.85	1,357.08
Note: Fire tested factory assembled package unit.		
23 52 23 00-0069 EA 1,766 MBH Steam, 1,977 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 988).....	38,475.80	1,492.79
Note: Fire tested factory assembled package unit.		
23 52 23 00-0070 EA 1,988 MBH Steam, 2,227 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1088).....	40,805.14	1,492.79
Note: Fire tested factory assembled package unit.		
23 52 23 00-0071 EA 2,211 MBH Steam, 2,477 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1188).....	43,365.92	1,628.50
Note: Fire tested factory assembled package unit.		
23 52 23 00-0072 EA 2,434 MBH Steam, 2,726 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1288).....	46,182.07	1,628.50
Note: Fire tested factory assembled package unit.		
23 52 23 00-0073 EA 2,657 MBH Steam, 2,976 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1388).....	48,918.29	1,764.21
Note: Fire tested factory assembled package unit.		
23 52 23 00-0074 EA 2,880 MBH Steam, 3,225 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1488).....	51,571.50	1,899.91
Note: Fire tested factory assembled package unit.		
23 52 23 00-0075 EA 3,102 MBH Steam, 3,475 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1588).....	53,643.84	1,899.91
Note: Fire tested factory assembled package unit.		
23 52 23 00-0076 EA 3,325 MBH Steam, 3,724 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1688).....	56,404.49	2,035.62
Note: Fire tested factory assembled package unit.		
23 52 23 00-0077 EA 3,548 MBH Steam, 3,974 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1788).....	58,916.04	2,035.62
Note: Fire tested factory assembled package unit.		
23 52 23 00-0078 EA 3,771 MBH Steam, 4,223 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1888).....	61,464.53	2,171.33
Note: Fire tested factory assembled package unit.		
<b>23 52 23 00-0079 Gas/Oil Fired Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23 00-0046)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0080 EA 629 MBH Steam, 730 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 488).....	28,032.04	4,908.78
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0081 EA 845 MBH Steam, 979 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 588).....	30,841.70	5,208.76
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0082 EA 1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 688).....	34,567.94	5,508.75
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0083 EA 1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 788).....	37,756.59	5,808.73
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0084 EA 1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 888).....	40,293.39	6,108.70
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0085 EA 1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 988).....	44,083.74	6,408.69
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0086 EA 1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1088).....	47,329.51	6,708.67
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0087 EA 2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1188).....	49,715.21	7,008.65
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0088 EA 2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1288).....	52,863.37	7,308.63
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0089 EA 2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1388).....	56,119.06	7,608.61
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0090 EA 2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1488).....	60,459.46	7,908.59
Note: Includes field assembly of individual sections and testing.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0091 EA 3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1588) ..... Note: Includes field assembly of individual sections and testing.	63,713.94	8,208.57
23 52 23 00-0092 EA 3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1688) ..... Note: Includes field assembly of individual sections and testing.	65,479.64	8,508.56
23 52 23 00-0093 EA 3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1788) ..... Note: Includes field assembly of individual sections and testing.	68,284.36	8,808.54
23 52 23 00-0094 EA 3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1888) ..... Note: Includes field assembly of individual sections and testing.	70,654.26	9,108.51
<b>23 52 23 00-0095 Gas/Oil Fired Package Weil-McLain Model 88 Cast Iron Boiler</b> <small>(23 52 23 00-0046)</small>		
23 52 23 00-0096 EA 629 MBH Steam, 730 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 488) ..... Note: Fire tested factory assembled package cast iron unit.	23,183.78	949.96
23 52 23 00-0097 EA 845 MBH Steam, 979 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 588) ..... Note: Fire tested factory assembled package cast iron unit.	26,168.80	1,085.67
23 52 23 00-0098 EA 1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 688) ..... Note: Fire tested factory assembled package cast iron unit.	30,073.07	1,221.37
23 52 23 00-0099 EA 1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 788) ..... Note: Fire tested factory assembled package cast iron unit.	33,437.48	1,357.08
23 52 23 00-0100 EA 1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 888) ..... Note: Fire tested factory assembled package cast iron unit.	35,607.72	1,357.08
23 52 23 00-0101 EA 1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 988) ..... Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.	39,574.52	1,492.79
23 52 23 00-0102 EA 1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1088) ..... Note: Fire tested factory assembled package cast iron unit.	42,454.57	1,492.79
23 52 23 00-0103 EA 2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1188) ..... Note: Fire tested factory assembled package cast iron unit.	45,015.36	1,628.50
23 52 23 00-0104 EA 2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1288) ..... Note: Fire tested factory assembled package cast iron unit.	47,798.87	1,628.50
23 52 23 00-0105 EA 2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1388) ..... Note: Fire tested factory assembled package cast iron unit.	51,236.75	1,764.21
23 52 23 00-0106 EA 2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1488) ..... Note: Fire tested factory assembled package cast iron unit.	54,000.11	1,899.91
23 52 23 00-0107 EA 3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1588) ..... Note: Fire tested factory assembled package cast iron unit.	55,529.88	1,899.91
23 52 23 00-0108 EA 3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1688) ..... Note: Fire tested factory assembled package cast iron unit.	58,831.73	2,035.62
23 52 23 00-0109 EA 3,548 MBh Steam, 3,974 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1788) ..... Note: Fire tested factory assembled package cast iron unit.	61,269.86	2,035.62
23 52 23 00-0110 EA 3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1888) ..... Note: Fire tested factory assembled package cast iron unit.	63,816.98	2,171.33
<b>23 52 23 00-0111 Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23)</small> Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
<b>23 52 23 00-0112 Gas Fired Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small> Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0113 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-894) ..... Note: Includes field assembly of individual sections and testing.	73,766.54	9,544.85
23 52 23 00-0114 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-994) ..... Note: Includes field assembly of individual sections and testing.	79,971.86	10,090.27
23 52 23 00-0115 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1094) ..... Note: Includes field assembly of individual sections and testing.	85,639.45	10,635.70
23 52 23 00-0116 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1194) ..... Note: Includes field assembly of individual sections and testing.	91,188.78	11,181.11
23 52 23 00-0117 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1294) ..... Note: Includes field assembly of individual sections and testing.	96,789.75	11,726.53
23 52 23 00-0118 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1394) ..... Note: Includes field assembly of individual sections and testing.	103,955.43	12,271.96
23 52 23 00-0119 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1494) ..... Note: Includes field assembly of individual sections and testing.	109,233.06	12,817.37
23 52 23 00-0120 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1594) ..... Note: Includes field assembly of individual sections and testing.	114,339.89	13,362.79
23 52 23 00-0121 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1694) ..... Note: Includes field assembly of individual sections and testing.	122,648.99	13,908.22
23 52 23 00-0122 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1794) ..... Note: Includes field assembly of individual sections and testing.	127,752.87	14,453.64
23 52 23 00-0123 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1894) ..... Note: Includes field assembly of individual sections and testing.	132,131.85	14,999.05
23 52 23 00-0124 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1994) ..... Note: Includes field assembly of individual sections and testing.	140,151.49	15,544.48
23 52 23 00-0125 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2094) ..... Note: Includes field assembly of individual sections and testing.	145,297.73	16,089.90
23 52 23 00-0126 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2194) ..... Note: Includes field assembly of individual sections and testing.	153,501.71	16,635.31
23 52 23 00-0127 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2294) ..... Note: Includes field assembly of individual sections and testing.	158,918.90	17,180.74
23 52 23 00-0128 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2394) ..... Note: Includes field assembly of individual sections and testing.	164,846.03	17,726.16
23 52 23 00-0129 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2494) ..... Note: Includes field assembly of individual sections and testing.	169,937.55	18,271.57

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0130 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2594) ..... Note: Includes field assembly of individual sections and testing.	175,175.30	18,817.00
<b>23 52 23 00-0131 Gas Fired Package Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small>		
23 52 23 00-0132 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-894) ..... Note: Fire tested factory assembled package cast iron unit.	67,316.39	1,764.21
23 52 23 00-0133 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-994) ..... Note: Fire tested factory assembled package cast iron unit.	73,403.09	1,899.91
23 52 23 00-0134 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1094) ..... Note: Fire tested factory assembled package cast iron unit.	78,948.62	2,035.62
23 52 23 00-0135 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1194) ..... Note: Fire tested factory assembled package cast iron unit.	84,379.88	2,171.33
23 52 23 00-0136 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1294) ..... Note: Fire tested factory assembled package cast iron unit.	89,315.95	2,171.33
23 52 23 00-0137 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1394) ..... Note: Fire tested factory assembled package cast iron unit.	94,619.56	2,307.03
23 52 23 00-0138 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1494) ..... Note: Fire tested factory assembled package cast iron unit.	99,233.36	2,307.03
23 52 23 00-0139 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1594) ..... Note: Fire tested factory assembled package cast iron unit.	104,219.96	2,442.74
23 52 23 00-0140 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1694) ..... Note: Fire tested factory assembled package cast iron unit.	111,866.11	2,442.74
23 52 23 00-0141 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1794) ..... Note: Fire tested factory assembled package cast iron unit.	116,851.33	2,578.45
23 52 23 00-0142 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1894) ..... Note: Fire tested factory assembled package cast iron unit.	120,566.30	2,578.45
23 52 23 00-0143 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1994) ..... Note: Fire tested factory assembled package cast iron unit.	128,468.46	2,714.15
23 52 23 00-0144 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2094) ..... Note: Fire tested factory assembled package cast iron unit.	132,950.36	2,714.15
23 52 23 00-0145 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2194) ..... Note: Fire tested factory assembled package cast iron unit.	141,059.20	2,849.86
23 52 23 00-0146 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2294) ..... Note: Fire tested factory assembled package cast iron unit.	145,787.22	2,849.86
23 52 23 00-0147 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2394) ..... Note: Fire tested factory assembled package cast iron unit.	151,592.48	2,985.57
23 52 23 00-0148 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2494) ..... Note: Fire tested factory assembled package cast iron unit.	156,021.35	2,985.57
23 52 23 00-0149 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2594) ..... Note: Fire tested factory assembled package cast iron unit.	161,138.47	3,121.28
<b>23 52 23 00-0150 Oil Fired Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0151 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-894) ..... Note: Includes field assembly of individual sections and testing.	69,708.90	9,544.85
23 52 23 00-0152 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-994) ..... Note: Includes field assembly of individual sections and testing.	75,914.22	10,090.27
23 52 23 00-0153 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1094) ..... Note: Includes field assembly of individual sections and testing.	83,461.05	10,635.70
23 52 23 00-0154 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1194) ..... Note: Includes field assembly of individual sections and testing.	88,519.49	11,181.11
23 52 23 00-0155 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1294) ..... Note: Includes field assembly of individual sections and testing.	93,785.95	11,726.53
23 52 23 00-0156 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1394) ..... Note: Includes field assembly of individual sections and testing.	100,577.69	12,271.96
23 52 23 00-0157 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1494) ..... Note: Includes field assembly of individual sections and testing.	106,108.24	12,817.37
23 52 23 00-0158 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1594) ..... Note: Includes field assembly of individual sections and testing.	111,217.79	13,362.79
23 52 23 00-0159 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1694) ..... Note: Includes field assembly of individual sections and testing.	120,497.79	13,908.28
23 52 23 00-0160 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1794) ..... Note: Includes field assembly of individual sections and testing.	125,603.03	14,453.64
23 52 23 00-0161 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1894) ..... Note: Includes field assembly of individual sections and testing.	130,706.78	14,999.05
23 52 23 00-0162 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1994) ..... Note: Includes field assembly of individual sections and testing.	140,161.01	15,544.48
23 52 23 00-0163 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2094) ..... Note: Includes field assembly of individual sections and testing.	145,307.25	16,089.90
23 52 23 00-0164 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2194) ..... Note: Includes field assembly of individual sections and testing.	153,730.15	16,635.31
23 52 23 00-0165 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2294) ..... Note: Includes field assembly of individual sections and testing.	159,145.99	17,180.74
23 52 23 00-0166 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2394) ..... Note: Includes field assembly of individual sections and testing.	164,956.17	17,726.16
23 52 23 00-0167 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2494) ..... Note: Includes field assembly of individual sections and testing.	170,047.69	18,271.57
23 52 23 00-0168 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2594) ..... Note: Includes field assembly of individual sections and testing.	175,293.60	18,817.00
<b>23 52 23 00-0169 Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0170 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-894) ..... Note: Fire tested factory assembled package cast iron unit.	63,038.46	1,764.21
23 52 23 00-0171 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-994) ..... Note: Fire tested factory assembled package cast iron unit.	69,125.16	1,899.91
23 52 23 00-0172 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094) ..... Note: Fire tested factory assembled package cast iron unit.	76,549.93	2,035.62
23 52 23 00-0173 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194) ..... Note: Fire tested factory assembled package cast iron unit.	81,490.30	2,171.33
23 52 23 00-0174 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294) ..... Note: Fire tested factory assembled package cast iron unit.	86,091.87	2,171.33
23 52 23 00-0175 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394) ..... Note: Fire tested factory assembled package cast iron unit.	91,021.53	2,307.03
23 52 23 00-0176 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494) ..... Note: Fire tested factory assembled package cast iron unit.	95,888.25	2,307.03
23 52 23 00-0177 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594) ..... Note: Fire tested factory assembled package cast iron unit.	100,874.85	2,442.74
23 52 23 00-0178 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694) ..... Note: Fire tested factory assembled package cast iron unit.	109,494.62	2,442.74
23 52 23 00-0179 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794) ..... Note: Fire tested factory assembled package cast iron unit.	114,478.48	2,578.45
23 52 23 00-0180 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894) ..... Note: Fire tested factory assembled package cast iron unit.	118,920.95	2,578.45
23 52 23 00-0181 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994) ..... Note: Fire tested factory assembled package cast iron unit.	128,257.69	2,714.15
23 52 23 00-0182 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094) ..... Note: Fire tested factory assembled package cast iron unit.	132,739.59	2,714.15
23 52 23 00-0183 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194) ..... Note: Fire tested factory assembled package cast iron unit.	141,040.16	2,849.86
23 52 23 00-0184 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294) ..... Note: Fire tested factory assembled package cast iron unit.	145,794.02	2,849.86
23 52 23 00-0185 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394) ..... Note: Fire tested factory assembled package cast iron unit.	151,482.34	2,985.57
23 52 23 00-0186 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494) ..... Note: Fire tested factory assembled package cast iron unit.	155,911.20	2,985.57
23 52 23 00-0187 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594) ..... Note: Fire tested factory assembled package cast iron unit.	161,036.48	3,121.28
<b>23 52 23 00-0188 Gas/Oil Fired Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0189 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-894) ..... Note: Includes field assembly of individual sections and testing.	75,042.03	9,544.85
23 52 23 00-0190 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-994) ..... Note: Includes field assembly of individual sections and testing.	81,248.71	10,090.27
23 52 23 00-0191 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1094) ..... Note: Includes field assembly of individual sections and testing.	87,264.41	10,635.70
23 52 23 00-0192 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1194) ..... Note: Includes field assembly of individual sections and testing.	92,951.08	11,181.11
23 52 23 00-0193 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1294) ..... Note: Includes field assembly of individual sections and testing.	98,520.77	11,726.53
23 52 23 00-0194 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1394) ..... Note: Includes field assembly of individual sections and testing.	104,594.54	12,271.96
23 52 23 00-0195 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1494) ..... Note: Includes field assembly of individual sections and testing.	111,355.71	12,817.37
23 52 23 00-0196 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1594) ..... Note: Includes field assembly of individual sections and testing.	116,797.05	13,362.79
23 52 23 00-0197 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1694) ..... Note: Includes field assembly of individual sections and testing.	125,319.64	13,908.22
23 52 23 00-0198 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1794) ..... Note: Includes field assembly of individual sections and testing.	130,423.52	14,453.64
23 52 23 00-0199 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1894) ..... Note: Includes field assembly of individual sections and testing.	134,897.68	14,999.05
23 52 23 00-0200 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1994) ..... Note: Includes field assembly of individual sections and testing.	143,009.79	15,544.48
23 52 23 00-0201 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2094) ..... Note: Includes field assembly of individual sections and testing.	149,515.83	16,089.90
23 52 23 00-0202 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2194) ..... Note: Includes field assembly of individual sections and testing.	158,448.66	16,635.31
23 52 23 00-0203 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2294) ..... Note: Includes field assembly of individual sections and testing.	163,825.06	17,180.74
23 52 23 00-0204 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2394) ..... Note: Includes field assembly of individual sections and testing.	170,005.11	17,726.16
23 52 23 00-0205 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2494) ..... Note: Includes field assembly of individual sections and testing.	175,097.99	18,271.57
23 52 23 00-0206 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2594) ..... Note: Includes field assembly of individual sections and testing.	180,339.82	18,817.00
<b>23 52 23 00-0207 Gas/Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler</b> <small>(23 52 23 00-0111)</small>		
23 52 23 00-0208 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-894) ..... Note: Fire tested factory assembled package cast iron unit.	68,691.14	1,764.21
23 52 23 00-0209 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-994) ..... Note: Fire tested factory assembled package cast iron unit.	74,779.21	1,899.91

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0210 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094).....	80,676.92	2,035.62
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0211 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194).....	86,242.80	2,171.33
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0212 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294).....	91,147.60	2,171.33
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0213 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394).....	95,357.93	2,307.03
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0214 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494).....	101,455.28	2,307.03
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0215 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594).....	106,775.02	2,442.74
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0216 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694).....	114,637.39	2,442.74
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0217 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794).....	119,619.88	2,578.45
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0218 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894).....	123,431.40	2,578.45
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0219 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994).....	131,426.03	2,714.15
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0220 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094).....	137,269.09	2,714.15
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0221 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194).....	146,079.58	2,849.86
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0222 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294).....	150,794.01	2,849.86
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0223 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394).....	156,850.83	2,985.57
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0224 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494).....	161,281.06	2,985.57
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0225 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594).....	166,403.61	3,121.28
Note: Fire tested factory assembled package cast iron unit.		

**23 52 33 Water-Tube Boilers (23 52)****23 52 33 13 Finned Water-Tube Boilers (23 52 33)****23 52 33 13-0001 Laars Pennant 85% Efficient Water, Gas Fired, Copper Fin Tube LoNox Boiler (23 52 33 13)**

23 52 33 13-0002 EA 200 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	9,584.77	837.77
23 52 33 13-0003 EA 300 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	10,554.85	930.85
23 52 33 13-0004 EA 400 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	12,162.99	1,117.03
23 52 33 13-0005 EA 500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	15,327.43	1,163.57
23 52 33 13-0006 EA 750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	18,029.59	1,396.29
23 52 33 13-0007 EA 1,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	22,122.70	1,675.55
23 52 33 13-0008 EA 1,250 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	25,024.31	1,768.63
23 52 33 13-0009 EA 1,500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	27,679.05	1,908.26
23 52 33 13-0010 EA 1,750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	30,119.32	2,001.34
23 52 33 13-0011 EA 2,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant).....	32,241.37	2,047.89

**23 52 33 13-0012 Patterson Kelly Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (23 52 33 13)**

23 52 33 13-0013 EA 1,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	32,468.32	1,675.55
23 52 33 13-0014 EA 1,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	40,406.35	1,908.26
23 52 33 13-0015 EA 2,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	43,067.48	2,047.89
23 52 33 13-0016 EA 2,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	60,486.50	2,327.14
23 52 33 13-0017 EA 3,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire).....	63,573.94	2,606.40

**23 52 33 13-0018 Lochinvar Copper-Fin II Finned Tube Boiler (23 52 33 13)**

23 52 33 13-0019 EA 340 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0402).....	14,405.80	751.74
For High And Low Gas Pressure Switch With Manual Reset, Add	518.18	
For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	459.04	
23 52 33 13-0020 EA 425 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0502).....	17,315.86	939.32
For High And Low Gas Pressure Switch With Manual Reset, Add	518.18	
For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	459.04	
23 52 33 13-0021 EA 552.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0652).....	18,651.67	1,128.31
For High And Low Gas Pressure Switch With Manual Reset, Add	518.18	
For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	459.04	
23 52 33 13-0022 EA 637.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0752).....	19,145.92	1,128.31
For High And Low Gas Pressure Switch With Manual Reset, Add	518.18	
For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	459.04	
23 52 33 13-0023 EA 841.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0992).....	23,756.02	1,410.39
For High And Low Gas Pressure Switch With Manual Reset, Add	518.18	
For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	459.04	
23 52 33 13-0024 EA 1,071 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1262).....	27,383.31	1,410.39
For High And Low Gas Pressure Switch With Manual Reset, Add	518.18	
For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	459.04	
23 52 33 13-0025 EA 1,224 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1442).....	29,782.73	1,410.39
For High And Low Gas Pressure Switch With Manual Reset, Add	518.18	
For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add	459.04	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 13-0026	EA			1,530 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1802)..... <i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	32,203.24 518.18 459.04	1,692.47
23 52 33 13-0027	EA			1,759.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN2072)..... <i>For High And Low Gas Pressure Switch With Manual Reset, Add</i>	38,072.20 518.18 459.04	1,974.55
<b>23 52 33 13-0028 Raypak Cupro-Nickel Finned-Tube Boiler With Pump</b> <small>(23 52 33 13)</small>						
23 52 33 13-0029	EA			385 MBH Water, Gas Fired, On/Off, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H4-399B).....	14,064.78	1,033.25
23 52 33 13-0030	EA			420 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-499B) .....	15,151.19	930.85
23 52 33 13-0031	EA			546 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-649B) .....	16,807.02	1,117.03
23 52 33 13-0032	EA			630 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-749B) .....	17,850.76	1,268.08
23 52 33 13-0033	EA			756 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-899B) .....	19,829.19	1,396.29
23 52 33 13-0034	EA			832 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-989B) .....	21,320.96	1,502.91
23 52 33 13-0035	EA			1,058 MBH Water, Gas Fired, Three Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H8-1259B).....	24,347.18	1,675.55
23 52 33 13-0036	EA			1,285 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1529B).....	28,202.86	1,768.63
23 52 33 13-0037	EA			1,512 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1799B).....	29,940.22	1,908.26
23 52 33 13-0038	EA			1,679 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1999B).....	35,630.49	1,954.80
23 52 33 13-0039	EA			1,739 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2069B).....	35,771.53	2,001.34
23 52 33 13-0040	EA			1,966 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2339B).....	41,711.43	2,047.89
<b>23 52 33 16 Steel Water-Tube Boilers</b> <small>(23 52 33)</small>						
<b>23 52 33 16-0001 Unilux 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler</b> <small>(23 52 33 16)</small>						
Note: Compliant with BAAQMD.						
23 52 33 16-0002	EA			1,250 MBH Input/1,062 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF100).....	88,155.62	2,256.63
23 52 33 16-0003	EA			1,750 MBH Input/1,488 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF150).....	94,945.20	2,820.78
23 52 33 16-0004	EA			2,200 MBH Input/1,870 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF200).....	96,766.19	3,102.86
23 52 33 16-0005	EA			2,750 MBH Input/2,338 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF250).....	104,248.46	3,384.94
23 52 33 16-0006	EA			3,000 MBH Input/2,550 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF300).....	107,925.32	3,808.06
23 52 33 16-0007	EA			3,750 MBH Output/3,188 MBH Input, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ350).....	119,147.61	4,231.17
23 52 33 16-0008	EA			4,300 MBH Input/3,655 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ400).....	124,146.68	4,372.21
<b>23 52 33 16-0009 Unilux 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler</b> <small>(23 52 33 16)</small>						
Note: Compliant with BAAQMD.						
23 52 33 16-0010	EA			1,250 MBH, 31 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100LS).....	102,870.75	2,538.70
23 52 33 16-0011	EA			1,750 MBH, 43.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150LS).....	108,119.21	2,961.82
23 52 33 16-0012	EA			2,200 MBH, 54.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200LS).....	111,199.24	3,243.90
23 52 33 16-0013	EA			2,750 MBH, 68 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250LS).....	124,340.56	3,525.98
23 52 33 16-0014	EA			3,000 MBH, 74 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300LS).....	128,992.19	3,808.06
23 52 33 16-0015	EA			3,750 MBH, 93 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350LS).....	138,013.37	4,231.17
23 52 33 16-0016	EA			4,300 MBH, 106.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400LS).....	146,131.75	4,513.25
23 52 33 16-0017	EA			5,400 MBH, 134 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500LS).....	243,223.61	4,795.33
23 52 33 16-0018	EA			6,250 MBH, 155 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600LS).....	263,283.03	5,077.41
23 52 33 16-0019	EA			7,235 MBH, 179 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700LS).....	277,053.89	5,359.48
23 52 33 16-0020	EA			8,270 MBH, 205 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800LS).....	284,221.39	5,641.56
<b>23 52 33 16-0021 Unilux 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler</b> <small>(23 52 33 16)</small>						
Note: Compliant with BAAQMD.						
23 52 33 16-0022	EA			1,250 MBH, 31 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100HS).....	110,730.93	2,538.70
23 52 33 16-0023	EA			1,750 MBH, 43.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150HS).....	117,553.19	2,961.82
23 52 33 16-0024	EA			2,200 MBH, 54.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200HS).....	121,890.06	3,243.90
23 52 33 16-0025	EA			2,750 MBH, 68 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250HS).....	135,346.14	3,525.98

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 52 Heating Boilers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 16-0026 EA 3,000 MBH, 74 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300HS) .....	139,997.77	3,808.06
23 52 33 16-0027 EA 3,750 MBH, 93 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350HS) .....	147,447.34	4,231.17
23 52 33 16-0028 EA 4,300 MBH, 106.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400HS) .....	155,873.89	4,513.25
23 52 33 16-0029 EA 5,400 MBH, 134 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500HS) .....	252,342.83	4,795.33
23 52 33 16-0030 EA 6,250 MBH, 155 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600HS) .....	273,976.05	5,077.41
23 52 33 16-0031 EA 7,235 MBH, 179 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700HS) .....	282,715.15	5,359.48
23 52 33 16-0032 EA 8,270 MBH, 205 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800HS) .....	294,914.41	5,641.56
23 52 33 16-0033 EA 9,300 MBH, 230 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 900HS) .....	327,865.76	5,923.64
23 52 33 16-0034 EA 10,330 MBH, 256 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1000HS) .....	473,545.03	6,205.72
23 52 33 16-0035 EA 12,400 MBH, 307 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1200HS) .....	497,535.66	6,487.80

**23 52 36 Fire-Box Boiler (23 52)**

**23 52 36 00-0001 Package Oil Fired Firebox Boilers (23 52 36)**

Note: Prices are good for 15 PSI steam or 30 PSI water. Packaged type, complete with burner and all basic safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Normally required (Boiler HP). boiler sizes are based on HP rating and gross output.

23 52 36 00-0002 EA 40 HP, 1,339 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	81,976.89	3,256.99
23 52 36 00-0003 EA 46 HP, 1,553 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	85,749.69	3,528.40
23 52 36 00-0004 EA 53 HP, 1,784 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	89,816.05	3,799.82
23 52 36 00-0005 EA 61 HP, 2,062 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	97,112.36	4,071.24
23 52 36 00-0006 EA 69 HP, 2,313 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	101,472.33	4,342.65
23 52 36 00-0007 EA 80 HP, 2,678 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	105,759.06	4,614.07
23 52 36 00-0008 EA 100 HP, 3,348 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	117,547.86	4,885.49
23 52 36 00-0009 EA 127 HP, 4,251 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	135,943.02	5,428.32
23 52 36 00-0010 EA 151 HP, 5,055 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	154,646.56	5,971.15
23 52 36 00-0011 EA 183 HP, 6,126 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	169,668.38	6,581.83
23 52 36 00-0012 EA 220 HP, 7,388 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	184,690.38	7,192.51
23 52 36 00-0013 EA 257 HP, 8,606 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	194,474.08	8,413.89
23 52 36 00-0014 EA 294 HP, 9,842 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	236,777.02	9,635.26
23 52 36 00-0015 EA 368 HP, 12,302 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	280,107.66	10,856.64
23 52 36 00-0016 EA 441 HP, 14,766 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	323,930.02	12,213.71
23 52 36 00-0017 EA 514 HP, 17,220 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water .....	366,633.31	13,231.51

**23 52 39 Fire-Tube Boilers (23 52)**

**23 52 39 13 Scotch Marine Boilers (23 52 39)**

**23 52 39 13-0001 15 PSI Steam Scotch Marine Boilers (23 52 39 13)**

Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.

**23 52 39 13-0002 15 PSI Gas Fired Steam Scotch Marine Boilers (23 52 39 13-0001)**

23 52 39 13-0003 EA 30 HP, 1,033 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	65,477.12	1,492.79
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0004 EA 40 HP, 1,339 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	70,495.42	1,628.50
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0005 EA 50 HP, 1,674 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	76,565.10	1,764.21
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0006 EA 60 HP, 2,009 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	80,140.55	2,035.62
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0007 EA 70 HP, 2,343 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	84,002.95	2,171.33
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0008 EA 80 HP, 2,678 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	87,958.81	2,307.03
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0009 EA 90 HP, 3,013 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	90,671.45	2,374.89
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0010 EA 100 HP, 3,348 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	95,669.49	2,442.74
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0011 EA 125 HP, 4,184 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	108,132.48	2,714.15
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0012 EA 150 HP, 5,021 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	122,804.92	2,985.57
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0013 EA 175 HP, 5,858 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	134,709.47	3,290.92
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0014 EA 200 HP, 6,695 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	146,611.21	3,596.26
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0015 EA 250 HP, 8,369 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	154,949.79	4,206.94
Note: Burnham Series 3. Fire tested factory assembled unit.		
23 52 39 13-0016 EA 300 HP, 10,043 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler .....	188,225.09	4,817.63
Note: Burnham Series 3. Fire tested factory assembled unit.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0017 EA 350 HP, 11,716 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	203,930.00	5,428.32
23 52 39 13-0018 EA 400 HP, 13,390 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	239,844.24	6,039.00
23 52 39 13-0019 EA 500 HP, 16,738 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	290,795.06	6,649.68
23 52 39 13-0020 EA 600 HP, 20,085 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	339,828.89	7,260.37
23 52 39 13-0021 EA 700 HP, 23,433 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	386,767.99	7,871.06
23 52 39 13-0022 EA 800 HP, 26,780 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	431,851.41	8,481.75
23 52 39 13-0023 EA 900 HP, 30,128 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	669,340.74	9,092.43
23 52 39 13-0024 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	728,149.61	9,703.11
 <b>23 52 39 13-0025 15 PSI Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)</b>		
23 52 39 13-0026 EA 30 HP, 1,033 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	60,766.56	1,492.79
23 52 39 13-0027 EA 40 HP, 1,339 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	65,430.31	1,628.50
23 52 39 13-0028 EA 50 HP, 1,674 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	71,059.53	1,764.21
23 52 39 13-0029 EA 60 HP, 2,009 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	77,506.68	2,035.62
23 52 39 13-0030 EA 70 HP, 2,343 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	80,896.34	2,171.33
23 52 39 13-0031 EA 80 HP, 2,678 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	84,279.62	2,307.03
23 52 39 13-0032 EA 90 HP, 3,013 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	87,400.42	2,374.89
23 52 39 13-0033 EA 100 HP, 3,348 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	93,575.91	2,442.74
23 52 39 13-0034 EA 125 HP, 4,184 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	108,232.32	2,714.15
23 52 39 13-0035 EA 150 HP, 5,021 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	122,913.57	2,985.57
23 52 39 13-0036 EA 175 HP, 5,858 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	134,829.86	3,290.92
23 52 39 13-0037 EA 200 HP, 6,695 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	146,743.35	3,596.26
23 52 39 13-0038 EA 250 HP, 8,369 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	155,087.79	4,206.94
23 52 39 13-0039 EA 300 HP, 10,043 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	188,395.40	4,817.63
23 52 39 13-0040 EA 350 HP, 11,716 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	204,112.05	5,428.32
23 52 39 13-0041 EA 400 HP, 13,390 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	240,061.53	6,039.00
23 52 39 13-0042 EA 500 HP, 16,738 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	291,059.33	6,649.68
23 52 39 13-0043 EA 600 HP, 20,085 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	340,140.14	7,260.37
23 52 39 13-0044 EA 700 HP, 23,433 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	387,123.29	7,871.06
23 52 39 13-0045 EA 800 HP, 26,780 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	432,250.75	8,481.75
23 52 39 13-0046 EA 900 HP, 30,128 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	669,971.99	9,092.43
23 52 39 13-0047 EA 1,000 HP, 33,476 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	728,840.18	9,703.11
 <b>23 52 39 13-0048 15 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)</b>		
23 52 39 13-0049 EA 30 HP, 1,033 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	67,538.84	1,492.79
23 52 39 13-0050 EA 40 HP, 1,339 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	72,712.33	1,628.50
23 52 39 13-0051 EA 50 HP, 1,674 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	78,969.93	1,764.21
23 52 39 13-0052 EA 60 HP, 2,009 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	83,129.70	2,035.62
23 52 39 13-0053 EA 70 HP, 2,343 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	86,751.32	2,171.33
23 52 39 13-0054 EA 80 HP, 2,678 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	90,366.57	2,307.03
23 52 39 13-0055 EA 90 HP, 3,013 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	93,716.40	2,374.89
23 52 39 13-0056 EA 100 HP, 3,348 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	97,067.17	2,442.74
23 52 39 13-0057 EA 125 HP, 4,184 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	112,290.28	2,714.15

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 52 Heating Boilers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0058 EA 150 HP, 5,021 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	127,538.24	2,985.57
23 52 39 13-0059 EA 175 HP, 5,858 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	139,900.85	3,290.92
23 52 39 13-0060 EA 200 HP, 6,695 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	152,257.72	3,596.26
23 52 39 13-0061 EA 250 HP, 8,369 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	160,848.82	4,206.94
23 52 39 13-0062 EA 300 HP, 10,043 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	195,442.52	4,817.63
23 52 39 13-0063 EA 350 HP, 11,716 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	211,711.19	5,428.32
23 52 39 13-0064 EA 400 HP, 13,390 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	249,058.35	6,039.00
23 52 39 13-0065 EA 500 HP, 16,738 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	302,079.26	6,649.68
23 52 39 13-0066 EA 600 HP, 20,085 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	353,100.96	7,260.37
23 52 39 13-0067 EA 700 HP, 23,433 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	401,942.79	7,871.06
23 52 39 13-0068 EA 800 HP, 26,780 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	448,846.71	8,481.75
23 52 39 13-0069 EA 900 HP, 30,128 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	696,374.48	9,092.43
23 52 39 13-0070 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	757,589.75	9,703.11
<b>23 52 39 13-0071 125 PSI Water Scotch Marine Boilers (23 52 39 13)</b> Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
<b>23 52 39 13-0072 125 PSI Gas Fired Water Scotch Marine Boilers (23 52 39 13-0071)</b>		
23 52 39 13-0073 EA 40 HP, 1,339 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	77,410.41	1,628.50
23 52 39 13-0074 EA 50 HP, 1,674 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	86,824.53	1,764.21
23 52 39 13-0075 EA 60 HP, 2,009 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	93,380.32	2,035.62
23 52 39 13-0076 EA 70 HP, 2,343 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	100,366.94	2,171.33
23 52 39 13-0077 EA 80 HP, 2,678 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	107,496.95	2,307.03
23 52 39 13-0078 EA 90 HP, 3,013 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	113,140.02	2,374.89
23 52 39 13-0079 EA 100 HP, 3,348 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	121,732.09	2,442.74
23 52 39 13-0080 EA 125 HP, 4,184 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	130,668.58	2,714.15
23 52 39 13-0081 EA 150 HP, 5,021 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	142,475.20	2,985.57
23 52 39 13-0082 EA 175 HP, 5,858 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	151,640.17	3,290.92
23 52 39 13-0083 EA 200 HP, 6,695 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	157,140.78	3,596.26
23 52 39 13-0084 EA 250 HP, 8,369 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	190,120.79	4,206.94
23 52 39 13-0085 EA 300 HP, 10,043 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	221,299.58	4,817.63
23 52 39 13-0086 EA 350 HP, 11,716 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	238,707.53	5,428.32
23 52 39 13-0087 EA 400 HP, 13,390 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	266,314.99	6,039.00
23 52 39 13-0088 EA 500 HP, 16,738 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	322,201.72	6,649.68
23 52 39 13-0089 EA 600 HP, 20,085 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	376,764.61	7,260.37
23 52 39 13-0090 EA 700 HP, 23,433 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	428,997.86	7,871.06
23 52 39 13-0091 EA 800 HP, 26,780 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	479,149.33	8,481.75
23 52 39 13-0092 EA 900 HP, 30,128 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	744,578.52	9,092.43
23 52 39 13-0093 EA 1,000 HP, 33,476 MBH 125 PSI Water Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	810,081.22	9,703.11
<b>23 52 39 13-0094 125 PSI Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)</b>		
23 52 39 13-0095 EA 40 HP, 1,339 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	71,796.20	1,628.50
23 52 39 13-0096 EA 50 HP, 1,674 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	80,505.61	1,764.21





**Heating, Ventilating, and Air-Conditioning (HVAC)**

**23**

**Central Heating Equipment**

**23 50**

**Heating Boilers**

**23 52**

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0097 EA 60 HP, 2,009 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	90,259.04	2,035.62
23 52 39 13-0098 EA 70 HP, 2,343 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	96,587.93	2,171.33
23 52 39 13-0099 EA 80 HP, 2,678 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	102,907.51	2,307.03
23 52 39 13-0100 EA 90 HP, 3,013 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	108,961.67	2,374.89
23 52 39 13-0101 EA 100 HP, 3,348 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	119,001.33	2,442.74
23 52 39 13-0102 EA 125 HP, 4,184 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	130,788.97	2,714.15
23 52 39 13-0103 EA 150 HP, 5,021 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	142,604.39	2,985.57
23 52 39 13-0104 EA 175 HP, 5,858 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	151,778.18	3,290.92
23 52 39 13-0105 EA 200 HP, 6,695 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	157,284.66	3,596.26
23 52 39 13-0106 EA 250 HP, 8,369 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	190,294.03	4,206.94
23 52 39 13-0107 EA 300 HP, 10,043 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	221,502.18	4,817.63
23 52 39 13-0108 EA 350 HP, 11,716 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	238,924.82	5,428.32
23 52 39 13-0109 EA 400 HP, 13,390 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	266,558.70	6,039.00
23 52 39 13-0110 EA 500 HP, 16,738 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	322,498.29	6,649.68
23 52 39 13-0111 EA 600 HP, 20,085 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	377,114.03	7,260.37
23 52 39 13-0112 EA 700 HP, 23,433 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	429,397.20	7,871.06
23 52 39 13-0113 EA 800 HP, 26,780 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	479,595.65	8,481.75
23 52 39 13-0114 EA 900 HP, 30,128 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	745,286.03	9,092.43
23 52 39 13-0115 EA 1,000 HP, 33,476 MBH 125 PSI Water Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	810,852.28	9,703.11
<b>23 52 39 13-0116 125 PSI Gas/Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)</b>		
23 52 39 13-0117 EA 40 HP, 1,339 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	79,865.16	1,628.50
23 52 39 13-0118 EA 50 HP, 1,674 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	89,584.65	1,764.21
23 52 39 13-0119 EA 60 HP, 2,009 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	96,918.56	2,035.62
23 52 39 13-0120 EA 70 HP, 2,343 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	103,714.33	2,171.33
23 52 39 13-0121 EA 80 HP, 2,678 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	110,503.72	2,307.03
23 52 39 13-0122 EA 90 HP, 3,013 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	117,027.68	2,374.89
23 52 39 13-0123 EA 100 HP, 3,348 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	123,552.59	2,442.74
23 52 39 13-0124 EA 125 HP, 4,184 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	135,786.55	2,714.15
23 52 39 13-0125 EA 150 HP, 5,021 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	148,048.29	2,985.57
23 52 39 13-0126 EA 175 HP, 5,858 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	157,553.88	3,290.92
23 52 39 13-0127 EA 200 HP, 6,695 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	163,239.48	3,596.26
23 52 39 13-0128 EA 250 HP, 8,369 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	197,523.20	4,206.94
23 52 39 13-0129 EA 300 HP, 10,043 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	229,929.36	4,817.63
23 52 39 13-0130 EA 350 HP, 11,716 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	247,974.50	5,428.32
23 52 39 13-0131 EA 400 HP, 13,390 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	276,659.57	6,039.00
23 52 39 13-0132 EA 500 HP, 16,738 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	334,830.75	6,649.68
23 52 39 13-0133 EA 600 HP, 20,085 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	391,616.41	7,260.37
23 52 39 13-0134 EA 700 HP, 23,433 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	445,978.48	7,871.06
23 52 39 13-0135 EA 800 HP, 26,780 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	498,164.81	8,481.75
23 52 39 13-0136 EA 900 HP, 30,128 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	774,827.84	9,092.43
23 52 39 13-0137 EA 1,000 HP, 33,476 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	843,016.55	9,703.11

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0138	<b>150 PSI Steam Scotch Marine Boilers</b> <small>(23 52 39 13)</small> Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH gross rated output.		
23 52 39 13-0139	<b>150 PSI Gas Fired Steam Scotch Marine Boilers</b> <small>(23 52 39 13-0138)</small>		
23 52 39 13-0140	EA 40 HP, 1,339 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	89,690.02	1,628.50
23 52 39 13-0141	EA 50 HP, 1,674 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	97,415.76	1,764.21
23 52 39 13-0142	EA 60 HP, 2,009 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	101,739.97	2,035.62
23 52 39 13-0143	EA 70 HP, 2,343 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	106,597.77	2,171.33
23 52 39 13-0144	EA 80 HP, 2,678 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	111,578.41	2,307.03
23 52 39 13-0145	EA 90 HP, 3,013 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	115,025.13	2,374.89
23 52 39 13-0146	EA 100 HP, 3,348 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	121,441.40	2,442.74
23 52 39 13-0147	EA 125 HP, 4,184 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	137,319.30	2,714.15
23 52 39 13-0148	EA 150 HP, 5,021 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	156,061.46	2,985.57
23 52 39 13-0149	EA 175 HP, 5,858 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	171,172.44	3,290.92
23 52 39 13-0150	EA 200 HP, 6,695 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	186,280.63	3,596.26
23 52 39 13-0151	EA 250 HP, 8,369 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	196,386.85	4,206.94
23 52 39 13-0152	EA 300 HP, 10,043 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	238,914.44	4,817.63
23 52 39 13-0153	EA 350 HP, 11,716 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	258,569.90	5,428.32
23 52 39 13-0154	EA 400 HP, 13,390 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	304,557.36	6,039.00
23 52 39 13-0155	EA 500 HP, 16,738 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	370,066.35	6,649.68
23 52 39 13-0156	EA 600 HP, 20,085 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	433,053.48	7,260.37
23 52 39 13-0157	EA 700 HP, 23,433 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	493,355.68	7,871.06
23 52 39 13-0158	EA 800 HP, 26,780 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	551,229.62	8,481.75
23 52 39 13-0159	EA 900 HP, 30,128 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	859,237.86	9,092.43
23 52 39 13-0160	EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	934,925.35	9,703.11
23 52 39 13-0161	<b>150 PSI Oil Fired Steam Scotch Marine Boilers</b> <small>(23 52 39 13-0138)</small>		
23 52 39 13-0162	EA 40 HP, 1,339 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	83,103.90	1,628.50
23 52 39 13-0163	EA 50 HP, 1,674 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	90,260.00	1,764.21
23 52 39 13-0164	EA 60 HP, 2,009 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	98,313.31	2,035.62
23 52 39 13-0165	EA 70 HP, 2,343 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	102,560.36	2,171.33
23 52 39 13-0166	EA 80 HP, 2,678 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	106,798.11	2,307.03
23 52 39 13-0167	EA 90 HP, 3,013 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	110,770.43	2,374.89
23 52 39 13-0168	EA 100 HP, 3,348 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	118,716.51	2,442.74
23 52 39 13-0169	EA 125 HP, 4,184 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	137,445.56	2,714.15
23 52 39 13-0170	EA 150 HP, 5,021 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	156,205.34	2,985.57
23 52 39 13-0171	EA 175 HP, 5,858 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	171,331.00	3,290.92
23 52 39 13-0172	EA 200 HP, 6,695 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	186,453.87	3,596.26
23 52 39 13-0173	EA 250 HP, 8,369 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	196,565.97	4,206.94
23 52 39 13-0174	EA 300 HP, 10,043 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	239,134.66	4,817.63
23 52 39 13-0175	EA 350 HP, 11,716 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	258,807.74	5,428.32
23 52 39 13-0176	EA 400 HP, 13,390 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	304,839.24	6,039.00
23 52 39 13-0177	EA 500 HP, 16,738 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	370,409.90	6,649.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0178 EA 600 HP, 20,085 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	433,458.69	7,260.37
23 52 39 13-0179 EA 700 HP, 23,433 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	493,816.68	7,871.06
23 52 39 13-0180 EA 800 HP, 26,780 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	551,746.41	8,481.75
23 52 39 13-0181 EA 900 HP, 30,128 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	860,059.76	9,092.43
23 52 39 13-0182 EA 1,000 HP, 33,476 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	935,823.51	9,703.11
<b>23 52 39 13-0183 150 PSI Gas/Oil Fired Steam Scotch Marine Boilers</b> <small>(23 52 39 13-0138)</small>		
23 52 39 13-0184 EA 40 HP, 1,339 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	92,570.53	1,628.50
23 52 39 13-0185 EA 50 HP, 1,674 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	100,542.92	1,764.21
23 52 39 13-0186 EA 60 HP, 2,009 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	105,624.69	2,035.62
23 52 39 13-0187 EA 70 HP, 2,343 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	110,171.25	2,171.33
23 52 39 13-0188 EA 80 HP, 2,678 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	114,708.50	2,307.03
23 52 39 13-0189 EA 90 HP, 3,013 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	118,983.26	2,374.89
23 52 39 13-0190 EA 100 HP, 3,348 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	123,256.03	2,442.74
23 52 39 13-0191 EA 125 HP, 4,184 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	142,722.10	2,714.15
23 52 39 13-0192 EA 150 HP, 5,021 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	162,215.94	2,985.57
23 52 39 13-0193 EA 175 HP, 5,858 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	177,920.06	3,290.92
23 52 39 13-0194 EA 200 HP, 6,695 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	193,624.31	3,596.26
23 52 39 13-0195 EA 250 HP, 8,369 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	204,056.47	4,206.94
23 52 39 13-0196 EA 300 HP, 10,043 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	248,295.92	4,817.63
23 52 39 13-0197 EA 350 HP, 11,716 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	268,685.45	5,428.32
23 52 39 13-0198 EA 400 HP, 13,390 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	316,534.52	6,039.00
23 52 39 13-0199 EA 500 HP, 16,738 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	384,739.04	6,649.68
23 52 39 13-0200 EA 600 HP, 20,085 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	450,307.18	7,260.37
23 52 39 13-0201 EA 700 HP, 23,433 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	513,081.75	7,871.06
23 52 39 13-0202 EA 800 HP, 26,780 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	573,322.34	8,481.75
23 52 39 13-0203 EA 900 HP, 30,128 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	894,380.45	9,092.43
23 52 39 13-0204 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler ..... Note: Burnham Series 3. Fire tested factory assembled unit.	973,194.56	9,703.11

**23 53 Heating Boiler Feedwater Equipment** (23 50)

**23 53 13 Boiler Feedwater Pumps** (23 53)  
See CSI section 23 53 16 00-0001 for boiler feedwater units.

**23 53 16 Deaerators** (23 53)

23 53 16 00-0001 Boiler Feed System (23 53 16)

23 53 16 00-0002 Low Pressure Boiler Feed System (23 53 16 00-0001)

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 53 16 00-0003 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	7,701.04	1,763.08
23 53 16 00-0004 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	8,404.17	2,077.09
23 53 16 00-0005 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	8,985.14	2,149.86
23 53 16 00-0006 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	9,278.08	2,228.74
23 53 16 00-0007 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	9,829.74	2,381.92
23 53 16 00-0008 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	15,085.72	2,581.05
23 53 16 00-0009 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	16,941.82	2,757.21
23 53 16 00-0010 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	19,409.57	3,140.15
23 53 16 00-0011 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	21,315.98	3,369.92
23 53 16 00-0012 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System .....	22,948.75	3,599.69

23 53 16 00-0013 High Pressure Boiler Feed System (23 53 16 00-0001)

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 53 16 00-0014 EA 10 HP, 100 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	10,197.96	1,503.13
23 53 16 00-0015 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	10,724.35	1,763.08

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 50 Central Heating Equipment****23 53 Heating Boiler Feedwater Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 53 16 00-0016 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	11,999.76	2,077.09
23 53 16 00-0017 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	12,918.11	2,149.86
23 53 16 00-0018 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	13,163.08	2,228.74
23 53 16 00-0019 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	15,736.29	2,381.92
23 53 16 00-0020 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	20,204.36	2,581.05
23 53 16 00-0021 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	20,788.10	2,757.21
23 53 16 00-0022 EA 183 HP, 1,800 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	22,817.75	2,952.66
23 53 16 00-0023 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	24,533.24	3,140.15
23 53 16 00-0024 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	26,245.20	3,369.92
23 53 16 00-0025 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System.....	28,308.32	3,599.69
<b>23 53 16 00-0026 Boiler Feedwater System</b> <sup>(23 53 16)</sup> Note: With deaerator includes pumps and accessories.		
23 53 16 00-0027 EA 1,380 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	12,844.68	2,077.09
23 53 16 00-0028 EA 2,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	16,579.48	2,379.62
23 53 16 00-0029 EA 4,300 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	21,672.25	2,723.51
23 53 16 00-0030 EA 6,900 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	26,004.73	3,141.68
23 53 16 00-0031 EA 8,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	27,616.19	3,369.92
23 53 16 00-0032 EA 11,000 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	29,162.27	3,599.69
23 53 16 00-0033 EA 13,800 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	32,522.98	4,135.96
23 53 16 00-0034 EA 17,250 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	41,762.50	4,748.83
23 53 16 00-0035 EA 20,700 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	53,878.61	5,487.15
23 53 16 00-0036 EA 27,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	67,929.66	6,298.68
23 53 16 00-0037 EA 34,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories .....	86,597.40	7,246.86
<b>23 53 16 00-0038 Duplex Vacuum Condensate Pumps</b> <sup>(23 53 16)</sup>		
23 53 16 00-0039 EA 7 CFM, 15 GPM, 45 Gallon Duplex Vacuum Condensate Pump..... Note: Two 3/4 HP vacuum pumps rated for 7 CFM, two 3/4 HP condensate pumps rated for 15 GPM at 20 PSI and 45 GAL cast iron receiver. Skidmore JVC-7-45-102.	33,460.80	1,225.42
23 53 16 00-0040 EA 9 CFM, 30 GPM, 45 Gallon Duplex Vacuum Condensate Pump..... Note: Two 1 HP vacuum pumps rated for 9 CFM, two 3/4 HP condensate pumps rated for 30 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-9-45-201.5.	34,236.44	1,302.01
23 53 16 00-0041 EA 12 CFM, 45 GPM, 45 Gallon Duplex Vacuum Condensate Pump..... Note: Two 1-1/2 HP vacuum pumps rated for 12 CFM, two 1 HP condensate pumps rated for 45 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-12-45-301.5.	35,125.26	1,378.60
23 53 16 00-0042 EA 18 CFM, 37.5 GPM, 65 Gallon Duplex Vacuum Condensate Pump..... Note: Two 2 HP vacuum pumps rated for 18 CFM, two 1 HP condensate pumps rated for 37.5 GPM at 20 PSI and 65 GAL cast iron receiver. Skidmore JVC-18-65-252.	33,970.73	1,455.19
23 53 16 00-0043 EA 28 CFM, 60 GPM, 110 Gallon Duplex Vacuum Condensate Pump..... Note: Two 3 HP vacuum pumps rated for 28 CFM, two 1-1/2 HP condensate pumps rated for 60 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-28-110-402.	45,956.88	1,531.78
23 53 16 00-0044 EA 42 CFM, 75 GPM, 110 Gallon Duplex Vacuum Condensate Pump..... Note: Two 5 HP vacuum pumps rated for 42 CFM, two 2 HP condensate pumps rated for 75 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-42-110-502.	48,373.56	1,608.37
<b>23 54 Furnaces</b> <sup>(23 50)</sup> Note: All units based on output. See CSI section 23 84 13 00-0000 for humidifiers.		
<b>23 54 13 Electric-Resistance Furnaces</b> <sup>(23 54)</sup>		
<b>23 54 13 00-0001 Down Flow Multi-Speed Air Handler/Electric Furnace</b> <sup>(23 54 13)</sup>		
23 54 13 00-0002 EA Up To 2 Ton Down Flow Multi-Speed Air Handler/Electric Furnace .....	1,279.44	141.41
Note: Excludes cooling equipment.		
23 54 13 00-0003 EA >2 To 3.5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace .....	1,680.56	176.77
Note: Excludes cooling equipment.		
23 54 13 00-0004 EA >3.5 To 5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace.....	2,158.17	212.12
Note: Excludes cooling equipment.		
<b>23 54 13 00-0005 Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace</b> <sup>(23 54 13)</sup>		
23 54 13 00-0006 EA Up To 2 Ton Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace.....	1,279.44	141.41
Note: Excludes cooling equipment.		
23 54 13 00-0007 EA >2 To 2.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace .....	1,520.63	159.10
Note: Excludes cooling equipment.		
23 54 13 00-0008 EA >2.5 To 3 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace .....	1,664.63	176.77
Note: Excludes cooling equipment.		
23 54 13 00-0009 EA >3 to 3.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace.....	1,751.27	194.45
Note: Excludes cooling equipment.		
23 54 13 00-0010 EA >3.5 To 5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace .....	2,158.17	212.12
Note: Excludes cooling equipment.		
<b>23 54 13 00-0011 Heating Coil For Air Handler/Electric Furnace</b> <sup>(23 54 13)</sup>		
23 54 13 00-0012 EA 5 KW Heating Coil For Air Handler/Electric Furnace .....	241.64	38.51
23 54 13 00-0013 EA 7 KW Heating Coil For Air Handler/Electric Furnace .....	274.56	42.36
23 54 13 00-0014 EA 10 KW Heating Coil For Air Handler/Electric Furnace .....	297.93	46.21
23 54 13 00-0015 EA 15 KW Heating Coil For Air Handler/Electric Furnace .....	393.00	50.05
23 54 13 00-0016 EA 20 KW Heating Coil For Air Handler/Electric Furnace .....	424.33	53.90



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 54 16</b>		<b>Fuel-Fired Furnaces (23 54)</b>		
<b>23 54 16 13</b>		<b>Gas-Fired Furnaces (23 54 16)</b>		
23 54 16 13-0001		<b>Natural Gas Fired Forced Air Furnaces (23 54 16 13)</b> Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.		
23 54 16 13-0002		<b>Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace (23 54 16 13-0001)</b>		
23 54 16 13-0003	EA	40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	1,916.17	123.73
23 54 16 13-0004	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	2,050.60	141.41
23 54 16 13-0005	EA	80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 4 tons.	2,361.89	159.10
23 54 16 13-0006	EA	100 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	2,769.39	194.45
23 54 16 13-0007	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	2,959.60	212.12
23 54 16 13-0008		<b>Up/Horizontal Flow Variable Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)</b>		
23 54 16 13-0009	EA	40 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	2,120.10	123.73
23 54 16 13-0010	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	2,327.83	141.41
23 54 16 13-0011	EA	80 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	2,477.83	159.10
23 54 16 13-0012	EA	80 MBH, 1,600 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3.5 tons.	3,188.71	176.77
23 54 16 13-0013	EA	100 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	2,930.31	194.45
23 54 16 13-0014	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	3,096.62	212.12
23 54 16 13-0015		<b>Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace (23 54 16 13-0001)</b>		
23 54 16 13-0016	EA	45 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 4 tons.	1,881.04	123.73
23 54 16 13-0017	EA	70 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 4 tons.	2,158.88	141.41
23 54 16 13-0018	EA	90 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 4 tons.	2,364.02	176.77
23 54 16 13-0019	EA	90 MBH, 2,000 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	2,530.33	194.45
23 54 16 13-0020		<b>Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace (23 54 16 13-0001)</b>		
23 54 16 13-0021	EA	40 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 4 tons.	2,432.39	123.73
23 54 16 13-0022	EA	60 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	2,573.20	141.41
23 54 16 13-0023	EA	80 MBH, 1,600 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 4 tons.	2,866.96	159.10
23 54 16 13-0024	EA	100 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 4 tons.	3,151.78	194.45
23 54 16 13-0025	EA	120 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	3,381.82	212.12
23 54 16 13-0026		<b>Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace (23 54 16 13-0001)</b>		
23 54 16 13-0027	EA	40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	1,721.78	123.73
23 54 16 13-0028	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	1,825.94	141.41
23 54 16 13-0029	EA	80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	2,038.45	159.10
23 54 16 13-0030	EA	80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 4 tons.	2,054.38	159.10
23 54 16 13-0031	EA	80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	2,244.59	176.77
23 54 16 13-0032	EA	100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	2,374.26	194.45
23 54 16 13-0033	EA	120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	2,523.03	212.12
23 54 16 13-0034		<b>Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)</b>		
23 54 16 13-0035	EA	40 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	1,232.63	123.73
23 54 16 13-0036	EA	60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	1,354.33	141.41

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 54 Furnaces**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 13-0037 EA 60 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	1,546.12	159.10
23 54 16 13-0038 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 4 tons.	1,547.71	159.10
23 54 16 13-0039 EA 80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,701.27	176.77
23 54 16 13-0040 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,759.24	194.45
23 54 16 13-0041 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace..... Note: Blower cooling capacity up to 5 tons.	1,951.04	212.12
<b>23 54 16 13-0042 Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)</b>		
23 54 16 13-0043 EA 40 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	1,248.57	123.73
23 54 16 13-0044 EA 60 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 3 tons.	1,359.11	141.41
23 54 16 13-0045 EA 80 MBH, 1,600 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 4 tons.	1,617.82	159.10
23 54 16 13-0046 EA 100 MBH, 2,000 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace ..... Note: Blower cooling capacity up to 5 tons.	1,782.53	176.77
<b>23 54 16 13-0047 75% AFUE Gas Wall/Recessed Furnace (23 54 16 13-0001)</b>		
23 54 16 13-0048 EA 35 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace .....	2,019.06	106.06
23 54 16 13-0049 EA 55 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace .....	2,340.22	132.65
23 54 16 13-0050 EA 35 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,835.83	106.06
23 54 16 13-0051 EA 40 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,963.60	114.97
23 54 16 13-0052 EA 50 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,955.93	123.73
23 54 16 13-0053 EA 65 MBH 75% AFUE Gas Wall/Recessed Furnace.....	2,020.05	132.65
23 54 16 13-0054 EA 75 MBH 75% AFUE Gas Wall/Recessed Furnace.....	2,087.08	132.65
<b>23 54 16 13-0055 Gas Fired Indoor Duct Furnace (23 54 16 13-0001)</b> Note: Includes burner, controls and electronic ignition.		
<b>23 54 16 13-0056 Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0005)</b>		
23 54 16 13-0057 EA 100 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	2,599.56	275.76
23 54 16 13-0058 EA 150 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	2,904.59	339.39
23 54 16 13-0059 EA 200 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	3,325.34	487.88
23 54 16 13-0060 EA 250 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	3,750.96	551.52
23 54 16 13-0061 EA 300 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	4,370.18	636.36
23 54 16 13-0062 EA 350 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	4,820.20	763.64
23 54 16 13-0063 EA 400 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	5,539.39	1,018.19
<b>23 54 16 13-0064 Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055)</b> Note: Includes burner, controls and electronic ignition.		
23 54 16 13-0065 EA 100 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	2,902.47	275.76
23 54 16 13-0066 EA 150 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	3,202.98	339.39
23 54 16 13-0067 EA 200 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	3,735.25	487.88
23 54 16 13-0068 EA 250 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	4,234.72	551.52
23 54 16 13-0069 EA 300 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	5,205.08	636.36
23 54 16 13-0070 EA 350 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	5,725.93	763.64
23 54 16 13-0071 EA 400 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace .....	6,395.39	1,018.19
<b>23 54 16 16 Oil-Fired Furnaces (23 54 16)</b>		
<b>23 54 16 16-0001 Oil Fired Forced Air Furnaces (23 54 16 16)</b> Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.		
<b>23 54 16 16-0002 Up Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)</b>		
23 54 16 16-0003 EA 72 MBH, 1,220 CFM Up Flow Single Speed, One Stage 84% AFUE Oil Furnace..... Note: Blower cooling capacity up to 3 tons.	3,229.64	141.41
23 54 16 16-0004 EA 95 MBH, 1,590 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 4 tons.	3,476.81	194.45
23 54 16 16-0005 EA 126 MBH, 1,835 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 5 tons.	4,018.14	229.80
<b>23 54 16 16-0006 Down/Horizontal Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)</b>		
23 54 16 16-0007 EA 95 MBH, 1,210 CFM Down/Horizontal Flow Single Speed, One Stage 83% AFUE Oil Furnace ..... Note: Blower cooling capacity up to 3 tons.	3,773.17	194.45
23 54 16 16-0008 EA 126 MBH, 2,005 CFM Down/Horizontal Flow Single Speed, One Stage 84% AFUE Oil Furnace ..... Note: Blower cooling capacity up to 5 tons.	3,838.10	229.80
<b>23 54 16 16-0009 Up Flow Lowboy Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)</b>		
23 54 16 16-0010 EA 95 MBH, 1,550 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace ..... Note: Blower cooling capacity up to 4 tons.	3,288.80	194.45



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 16-0011 EA 127 MBH, 2,130 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace ..... Note: Blower cooling capacity up to 5 tons.	3,903.43	229.80
<b>23 54 19 Furnace Accessories (23 54)</b>		
23 54 19 00-0001 EA LP Gas Furnace Conversion Kit .....	231.09	35.35
23 54 19 00-0002 EA 1" Furnace External Filter Rack .....	69.22	
23 54 19 00-0003 EA Removal And Reinstallation Of Forced Air Furnace .....	654.70	
Note: Includes storage and cleaning. Excludes ductwork.		
<b>23 55 Fuel-Fired Heaters (23 50)</b>		
<b>23 55 23 Gas-Fired Radiant Heaters (23 55)</b>		
<b>23 55 23 13 Low-Intensity Gas-Fired Radiant Heaters (23 55 23)</b>		
23 55 23 13-0001 Infrared Heaters-Radiant Energy (23 55 23 13) Note: For spot localized or total heating, ceiling hung units, no fan required.		
23 55 23 13-0002 Gas Fired Electric Ignition Infrared Gas Heater (23 55 23 13-0001) Note: Ceramic combustion, surface chromized wire screen aluminized steel housing and polished aluminum reflector.		
23 55 23 13-0003 EA 15,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,021.74	153.18
23 55 23 13-0004 EA 37,500 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,146.79	168.49
23 55 23 13-0005 EA 50,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,215.65	168.49
23 55 23 13-0006 EA 75,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,516.15	202.20
23 55 23 13-0007 EA 100,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan.....	1,527.76	202.20
23 55 23 13-0008 Rolled Steel Or Aluminum Housing Infrared Electric Heater (23 55 23 13-0001) Note: Anodized aluminum reflector and quartz/tungsten tubular element with an inner heavy-duty coiled element.		
23 55 23 13-0009 EA 1,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required .....	1,128.42	155.56
For Stainless Steel Housing, Add		164.26
23 55 23 13-0010 EA 3,200 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required .....	1,199.18	155.56
For Stainless Steel Housing, Add		181.95
23 55 23 13-0011 EA 5,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required .....	1,280.05	155.56
For Stainless Steel Housing, Add		202.17
23 55 23 13-0012 EA 7,300 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required .....	1,377.27	155.56
For Stainless Steel Housing, Add		226.47
23 55 23 13-0013 EA 10,950 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required .....	1,497.33	169.70
For Stainless Steel Housing, Add		252.36
23 55 23 13-0014 EA 13,500 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required .....	1,596.63	183.84
For Stainless Steel Housing, Add		271.77
23 55 23 13-0015 EA 24,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required .....	2,507.39	197.98
For Stainless Steel Housing, Add		485.30
23 55 23 13-0016 Gas Fired Tubular Infrared Heater (23 55 23 13-0001) Note: Per Tube Length. Includes controls and supports.		
23 55 23 13-0017 "U" Package (23 55 23 13-0016)		
23 55 23 13-0018 LF Up To 75 MBH Input Radiant Heater .....	97.37	7.66
23 55 23 13-0019 LF 76 To 105 MBH Input Radiant Heater.....	112.59	9.19
23 55 23 13-0020 LF 106 To 130 MBH Input Radiant Heater.....	136.91	10.72
23 55 23 13-0021 "S" Straight Package (23 55 23 13-0016)		
23 55 23 13-0022 LF Up To 75 MBH Input Radiant Heater.....	79.42	6.12
23 55 23 13-0023 LF 76 To 105 MBH Input Radiant Heater.....	100.56	7.66
23 55 23 13-0024 LF 106 To 130 MBH Input Radiant Heater.....	121.68	9.19
<b>23 55 33 Fuel-Fired Unit Heaters (23 55)</b>		
<b>23 55 33 13 Oil-Fired Unit Heaters (23 55 33)</b>		
23 55 33 13-0001 Oil Fired Unit Heater (23 55 33 13)		
23 55 33 13-0002 Horizontal Fan Propelled Oil Fired Unit Heater, 115 Volt (23 55 33 13-0001)		
23 55 33 13-0003 EA 97 MBH Output, 2,000 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	8,421.26	705.20
23 55 33 13-0004 EA 142 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	9,042.91	775.71
23 55 33 13-0005 EA 188 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	9,719.53	846.23
<b>23 55 33 16 Gas-Fired Unit Heaters (23 55 33)</b>		
23 55 33 16-0001 Gas Fired Unit Heaters (23 55 33 16)		
23 55 33 16-0002 Horizontal Fan Propelled Gas Fired Unit Heaters, 115 Volt (23 55 33 16-0001)		
23 55 33 16-0003 EA 24.3 MBH Output, 30 MBH Input, 500 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,149.18	264.45
23 55 33 16-0004 EA 36.5 MBH Output, 45 MBH Input, 750 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,366.31	317.34
23 55 33 16-0005 EA 48.6 MBH Output, 60 MBH Input, 1,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,400.25	317.34
23 55 33 16-0006 EA 60.8 MBH Output, 75 MBH Input, 1,250 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,633.73	370.22

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 50 Central Heating Equipment**

**23 55 Fuel-Fired Heaters**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 55 33 16-0007 EA 72.9 MBH Output, 90 MBH Input, 1,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,905.16	423.12
23 55 33 16-0008 EA 81 MBH Output, 100 MBH Input, 1,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	3,115.55	449.56
23 55 33 16-0009 EA 101.3 MBH Output, 125 MBH Input, 2,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	3,201.13	449.56
23 55 33 16-0010 EA 121.5 MBH Output, 150 MBH Input, 2,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	3,127.79	449.56
23 55 33 16-0011 EA 141.8 MBH Output, 175 MBH Input, 2,850 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	3,690.01	476.01
23 55 33 16-0012 EA 162 MBH Output, 200 MBH Input, 3,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	4,024.12	476.01
23 55 33 16-0013 EA 202.5 MBH Output, 250 MBH Input, 3,450 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	4,301.19	476.01
23 55 33 16-0014 EA 243 MBH Output, 300 MBH Input, 5,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	5,121.55	528.90
23 55 33 16-0015 EA 283.5 MBH Output, 350 MBH Input, 5,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	5,749.02	528.90
23 55 33 16-0016 EA 324 MBH Output, 400 MBH Input, 5,800 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt .....	6,175.22	581.78

**23 55 33 16-0017 Removal And Reinstallation Of Unit Heaters (23 55 33 16)**

Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.

23 55 33 16-0018 EA Removal And Reinstallation Of Up To 101.3 MBH Output Gas or Oil Unit Heater.....	880.77	
23 55 33 16-0019 EA Removal And Reinstallation Of >101.3 MBH Output Gas or Oil Unit Heater .....	1,187.13	

**23 57 Heat Exchangers for HVAC (23 50)**

**23 57 13 Steam-To-Steam Heat Exchangers (23 57)**

**23 57 13 00-0001 Steam Generator Heat Exchanger (23 57 13)**

Note: 35 PSI generated steam using 180 degree feed water; 400 degree F water to valve.

23 57 13 00-0002 EA 75 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	22,954.13	2,450.85
23 57 13 00-0003 EA 300 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	30,696.11	2,604.03
23 57 13 00-0004 EA 525 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	41,075.58	3,118.60

**23 57 16 Steam-To-Water Heat Exchangers (23 57)**

**23 57 16 00-0001 Heat Exchanger, Hot Water 40 To 180 Degree By Steam 10 PSI (23 57 16)**

Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes. Excludes controls expansion tank and accessories.

23 57 16 00-0002 EA 8 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	2,660.47	382.95
For Bronze Head And Tube Sheet, Add	967.45	
For Copper Nickel Tubes, Add	214.99	
For Double Wall Tube Bundles, Add	322.48	
23 57 16 00-0003 EA 10 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	3,868.25	382.95
For Bronze Head And Tube Sheet, Add	1,464.99	
For Copper Nickel Tubes, Add	325.55	
For Double Wall Tube Bundles, Add	488.33	
23 57 16 00-0004 EA 40 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	5,802.76	536.12
For Bronze Head And Tube Sheet, Add	2,266.59	
For Copper Nickel Tubes, Add	503.69	
For Double Wall Tube Bundles, Add	755.53	
23 57 16 00-0005 EA 64 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	9,209.94	536.12
For Bronze Head And Tube Sheet, Add	3,455.17	
For Copper Nickel Tubes, Add	767.82	
For Double Wall Tube Bundles, Add	1,151.72	
23 57 16 00-0006 EA 96 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	12,111.32	631.09
For Bronze Head And Tube Sheet, Add	4,588.47	
For Copper Nickel Tubes, Add	1,019.66	
For Double Wall Tube Bundles, Add	1,529.49	
23 57 16 00-0007 EA 120 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	15,845.41	773.12
For Bronze Head And Tube Sheet, Add	6,025.82	
For Copper Nickel Tubes, Add	1,339.07	
For Double Wall Tube Bundles, Add	2,008.61	
23 57 16 00-0008 EA 168 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	19,591.67	1,160.41
For Bronze Head And Tube Sheet, Add	7,380.24	
For Copper Nickel Tubes, Add	1,640.05	
For Double Wall Tube Bundles, Add	2,460.08	
23 57 16 00-0009 EA 240 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	29,541.80	1,160.41
For Bronze Head And Tube Sheet, Add	11,498.81	
For Copper Nickel Tubes, Add	2,555.29	
For Double Wall Tube Bundles, Add	3,832.94	

**23 57 19 Liquid-To-Liquid Heat Exchangers (23 57)**

**23 57 19 13 Plate-Type, Liquid-To-Liquid Heat Exchangers (23 57 19)**

**23 57 19 13-0001 Plate And Frame Heat Exchanger (23 57 19 13)**

23 57 19 13-0002 EA 8" W x 18-7/8"H Plate And Frame Heat Exchanger.....	4,188.00	382.95
23 57 19 13-0003 EA 8" W x 24-9/16"H Plate And Frame Heat Exchanger .....	5,523.46	382.95
23 57 19 13-0004 EA 11-3/16" W x 34-11/16"H Plate And Frame Heat Exchanger.....	7,345.89	459.53
23 57 19 13-0005 EA 16-3/4" W x 46-1/4"H Plate And Frame Heat Exchanger.....	9,926.57	497.83
23 57 19 13-0006 EA 16-1/2" W x 49-5/8"H Plate And Frame Heat Exchanger.....	10,844.70	497.83
23 57 19 13-0007 EA 24" W x 57-11/16"H Plate And Frame Heat Exchanger .....	14,093.08	536.12
23 57 19 13-0008 EA 26-5/16" W x 56-5/8"H Plate And Frame Heat Exchanger.....	14,844.27	536.12
23 57 19 13-0009 EA 24-1/4" W x 68-3/8"H Plate And Frame Heat Exchanger.....	18,335.97	612.71
23 57 19 13-0010 EA 24" W x 69-11/16"H Plate And Frame Heat Exchanger .....	22,411.94	689.30
23 57 19 13-0011 EA 26-5/16" W x 68-3/4"H Plate And Frame Heat Exchanger.....	23,246.60	689.30





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 57 19 13-0012 EA 24" W x 89-13/16"H Plate And Frame Heat Exchanger .....	28,722.04	783.28
23 57 19 13-0013 EA 26-5/16" W x 88-9/16"H Plate And Frame Heat Exchanger .....	34,640.54	861.46
23 57 19 13-0014 EA 40-13/16" W x 89-1/4"H Plate And Frame Heat Exchanger .....	39,974.60	939.65

**23 57 19 19 Copper Tube, Water-To-Water Heat Exchanger (23 57 19)**

<b>23 57 19 19-0001 Heat Exchanger Hot Water 40-140 Degree By Water At 200 Degree F (23 57 19)</b>		
<i>Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes.</i>		
23 57 19 19-0002 EA 7 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube .....	3,151.88	382.95
<i>For Copper Nickel Tubes, Add</i>		
	264.13	
<i>For Double Wall Tube Bundles, Add</i>		
	396.19	
23 57 19 19-0003 EA 16 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube .....	4,359.65	382.95
<i>For Copper Nickel Tubes, Add</i>		
	374.69	
<i>For Double Wall Tube Bundles, Add</i>		
	562.04	
23 57 19 19-0004 EA 34 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube .....	6,478.44	536.12
<i>For Copper Nickel Tubes, Add</i>		
	571.26	
<i>For Double Wall Tube Bundles, Add</i>		
	856.88	
23 57 19 19-0005 EA 55 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube .....	9,252.17	536.12
<i>For Copper Nickel Tubes, Add</i>		
	823.10	
<i>For Double Wall Tube Bundles, Add</i>		
	1,234.65	
23 57 19 19-0006 EA 74 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube .....	11,467.15	612.71
<i>For Copper Nickel Tubes, Add</i>		
	1,013.52	
<i>For Double Wall Tube Bundles, Add</i>		
	1,520.28	
23 57 19 19-0007 EA 86 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube .....	15,248.81	612.71
<i>For Copper Nickel Tubes, Add</i>		
	1,363.64	
<i>For Double Wall Tube Bundles, Add</i>		
	2,045.46	
23 57 19 19-0008 EA 112 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube .....	18,830.50	580.21
<i>For Copper Nickel Tubes, Add</i>		
	1,695.34	
<i>For Double Wall Tube Bundles, Add</i>		
	2,543.01	
23 57 19 19-0009 EA 126 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube .....	23,409.66	580.21
<i>For Copper Nickel Tubes, Add</i>		
	2,113.03	
<i>For Double Wall Tube Bundles, Add</i>		
	3,169.54	
23 57 19 19-0010 EA 152 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube .....	29,928.14	580.21
<i>For Copper Nickel Tubes, Add</i>		
	2,702.71	
<i>For Double Wall Tube Bundles, Add</i>		
	4,054.07	

**23 57 19 23 Refrigerant-To-Water Heat Exchanger (23 57 19)**

<b>23 57 19 23-0001 Heat Exchanger Refrigerant To Water (23 57 19 23)</b>		
23 57 19 23-0002 EA 10 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube .....	3,569.34	306.36
<i>For Copper Nickel Tubes, Add</i>		
	295.66	
<i>For Double Wall Tube Bundles, Add</i>		
	443.49	
23 57 19 23-0003 EA 53 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube .....	9,383.05	510.54
<i>For Copper Nickel Tubes, Add</i>		
	836.19	
<i>For Double Wall Tube Bundles, Add</i>		
	1,254.28	
23 57 19 23-0004 EA 70 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube .....	12,633.77	666.02
<i>For Copper Nickel Tubes, Add</i>		
	1,130.41	
<i>For Double Wall Tube Bundles, Add</i>		
	1,695.62	
23 57 19 23-0005 EA 87 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube .....	13,590.57	806.18
<i>For Copper Nickel Tubes, Add</i>		
	1,198.16	
<i>For Double Wall Tube Bundles, Add</i>		
	1,797.23	
23 57 19 23-0006 EA 105 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube .....	16,328.83	921.51
<i>For Copper Nickel Tubes, Add</i>		
	1,445.61	
<i>For Double Wall Tube Bundles, Add</i>		
	2,168.42	

**23 60 Central Cooling Equipment (23)**

*Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.*

**23 61 Refrigerant Compressors (23 60)**

**23 61 16 Reciprocating Refrigerant Compressors (23 61)**

<b>23 61 16 00-0001 Reciprocating Open Type Refrigerant Compressors (23 61 16)</b>		
<i>Note: Includes manual reversible oil pump and automatic pressure regulator. Excludes muffler, vibration isolators, crank case oil heaters, couplings and flywheel.</i>		
23 61 16 00-0002 EA 1/4 Ton Refrigerant Compressor, Reciprocating Open Type .....	690.56	145.21
23 61 16 00-0003 EA 1/3 Ton Refrigerant Compressor, Reciprocating Open Type .....	800.94	145.21
23 61 16 00-0004 EA 1/2 Ton Refrigerant Compressor, Reciprocating Open Type .....	1,075.91	181.44
23 61 16 00-0005 EA 3/4 Ton Refrigerant Compressor, Reciprocating Open Type .....	1,303.58	181.44
23 61 16 00-0006 EA 1 Ton Refrigerant Compressor, Reciprocating Open Type .....	1,441.56	181.44
23 61 16 00-0007 EA 1-1/4 Ton Refrigerant Compressor, Reciprocating Open Type .....	1,464.13	188.77
23 61 16 00-0008 EA 1-1/2 Ton Refrigerant Compressor, Reciprocating Open Type .....	1,472.18	188.77
23 61 16 00-0009 EA 1-3/4 Ton Refrigerant Compressor, Reciprocating Open Type .....	1,613.91	203.29
23 61 16 00-0010 EA 2 Ton Refrigerant Compressor, Reciprocating Open Type .....	1,734.96	217.81
23 61 16 00-0011 EA 2-1/2 Ton Refrigerant Compressor, Reciprocating Open Type .....	1,888.15	232.33
23 61 16 00-0012 EA 3 Ton Refrigerant Compressor, Reciprocating Open Type .....	2,125.01	232.33
23 61 16 00-0013 EA 3-1/2 Ton Refrigerant Compressor, Reciprocating Open Type .....	2,374.81	246.86
23 61 16 00-0014 EA 4 Ton Refrigerant Compressor, Reciprocating Open Type .....	2,431.48	261.37
23 61 16 00-0015 EA 4-1/2 Ton Refrigerant Compressor, Reciprocating Open Type .....	2,473.56	268.57

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 60 Central Cooling Equipment****23 61 Refrigerant Compressors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 61 16 00-0016	EA	5 Ton Refrigerant Compressor, Reciprocating Open Type	4,123.22	1,405.94
23 61 16 00-0017	EA	7.5 Ton Refrigerant Compressor, Reciprocating Open Type	5,957.42	1,606.72
23 61 16 00-0018	EA	10 Ton Refrigerant Compressor, Reciprocating Open Type	7,791.82	1,807.64
23 61 16 00-0019	EA	12.5 Ton Refrigerant Compressor, Reciprocating Open Type	10,078.27	1,958.14
23 61 16 00-0020	EA	15 Ton Refrigerant Compressor, Reciprocating Open Type	12,365.17	2,108.91
23 61 16 00-0021	EA	20 Ton Refrigerant Compressor, Reciprocating Open Type	14,838.21	2,530.69
23 61 16 00-0022	EA	25 Ton Refrigerant Compressor, Reciprocating Open Type	17,691.18	2,720.00
23 61 16 00-0023	EA	30 Ton Refrigerant Compressor, Reciprocating Open Type	20,415.62	2,875.80
23 61 16 00-0024	EA	50 Ton Refrigerant Compressor, Reciprocating Open Type	26,488.39	3,244.52
23 61 16 00-0025	EA	60 Ton Refrigerant Compressor, Reciprocating Open Type	30,985.94	3,329.61
23 61 16 00-0026	EA	70 Ton Refrigerant Compressor, Reciprocating Open Type	38,396.25	3,414.57
23 61 16 00-0027	EA	75 Ton Refrigerant Compressor, Reciprocating Open Type	40,258.56	3,457.17
23 61 16 00-0028	EA	80 Ton Refrigerant Compressor, Reciprocating Open Type	42,044.16	3,499.65
23 61 16 00-0029	EA	90 Ton Refrigerant Compressor, Reciprocating Open Type	45,388.64	3,584.60
23 61 16 00-0030	EA	100 Ton Refrigerant Compressor, Reciprocating Open Type	48,431.06	3,669.83
23 61 16 00-0031	EA	110 Ton Refrigerant Compressor, Reciprocating Open Type	51,426.71	3,753.54
23 61 16 00-0032	EA	120 Ton Refrigerant Compressor, Reciprocating Open Type	53,852.21	3,837.55
23 61 16 00-0033	EA	130 Ton Refrigerant Compressor, Reciprocating Open Type	55,922.09	3,886.40
23 61 16 00-0034	EA	140 Ton Refrigerant Compressor, Reciprocating Open Type	57,794.32	4,006.63
23 61 16 00-0035	EA	150 Ton Refrigerant Compressor, Reciprocating Open Type	59,306.64	4,090.65
23 61 16 00-0036	EA	175 Ton Refrigerant Compressor, Reciprocating Open Type	60,860.19	4,202.73
23 61 16 00-0037	EA	185 Ton Refrigerant Compressor, Reciprocating Open Type	62,312.13	4,247.92
23 61 16 00-0038	EA	200 Ton Refrigerant Compressor, Reciprocating Open Type	63,803.16	4,318.22
23 61 16 00-0039	EA	225 Ton Refrigerant Compressor, Reciprocating Open Type	65,641.76	4,609.45
23 61 16 00-0040	EA	250 Ton Refrigerant Compressor, Reciprocating Open Type	67,410.93	4,857.94

**23 61 16 00-0041 Reciprocating Hermetic Type Refrigerant Compressors (23 61 16)**

Note: Includes automatic reversible oil pump, suction and discharge shut-off valves, device for loading and unloading compressor cylinders and crank case oil heater. Excludes mufflers and vibration isolators.

**23 61 16 00-0042 Reciprocating Hermetic Type Refrigerant Compressors <5 Tons (23 61 16 00-0041)**

23 61 16 00-0043	EA	1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,101.69	145.21
23 61 16 00-0044	EA	1/3 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,136.22	145.21
23 61 16 00-0045	EA	1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,243.35	181.44
23 61 16 00-0046	EA	3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,277.85	181.44
23 61 16 00-0047	EA	1 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,295.12	181.44
23 61 16 00-0048	EA	1-1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,337.26	188.77
23 61 16 00-0049	EA	1-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,375.24	188.77
23 61 16 00-0050	EA	1-3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,476.77	203.29
23 61 16 00-0051	EA	2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,574.89	217.81
23 61 16 00-0052	EA	2-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,707.46	232.33
23 61 16 00-0053	EA	3 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,776.51	232.33
23 61 16 00-0054	EA	3-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,909.10	246.86
23 61 16 00-0055	EA	4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,248.87	261.37
23 61 16 00-0056	EA	4-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,453.23	268.57

**23 61 16 00-0057 Reciprocating Hermetic Type Refrigerant Compressors (23 61 16 00-0041)**

23 61 16 00-0058	EA	5 Ton Refrigerant Compressor, Reciprocating Hermetic Type	3,202.51	723.06
23 61 16 00-0059	EA	10 Ton Refrigerant Compressor, Reciprocating Hermetic Type	5,893.17	903.82
23 61 16 00-0060	EA	15 Ton Refrigerant Compressor, Reciprocating Hermetic Type	9,666.84	1,100.32
23 61 16 00-0061	EA	20 Ton Refrigerant Compressor, Reciprocating Hermetic Type	12,256.09	1,265.35
23 61 16 00-0062	EA	25 Ton Refrigerant Compressor, Reciprocating Hermetic Type	13,539.28	1,405.94
23 61 16 00-0063	EA	30 Ton Refrigerant Compressor, Reciprocating Hermetic Type	15,020.83	1,581.69
23 61 16 00-0064	EA	35 Ton Refrigerant Compressor, Reciprocating Hermetic Type	19,327.06	1,807.64
23 61 16 00-0065	EA	40 Ton Refrigerant Compressor, Reciprocating Hermetic Type	24,637.71	1,807.64
23 61 16 00-0066	EA	50 Ton Refrigerant Compressor, Reciprocating Hermetic Type	30,377.32	2,108.91
23 61 16 00-0067	EA	60 Ton Refrigerant Compressor, Reciprocating Hermetic Type	34,150.74	2,259.55
23 61 16 00-0068	EA	70 Ton Refrigerant Compressor, Reciprocating Hermetic Type	36,074.72	2,367.97
23 61 16 00-0069	EA	75 Ton Refrigerant Compressor, Reciprocating Hermetic Type	37,107.54	2,484.95
23 61 16 00-0070	EA	80 Ton Refrigerant Compressor, Reciprocating Hermetic Type	38,135.26	2,494.60
23 61 16 00-0071	EA	90 Ton Refrigerant Compressor, Reciprocating Hermetic Type	40,054.97	2,611.98
23 61 16 00-0072	EA	100 Ton Refrigerant Compressor, Reciprocating Hermetic Type	41,989.39	2,720.00

**23 61 19 Scroll Refrigerant Compressors (23 61)****23 61 19 00-0001 Scroll Refrigerant Compressors (23 61 19)**

23 61 19 00-0002	EA	Up To 3 Ton Scroll Refrigerant Compressor	1,430.97	232.06
23 61 19 00-0003	EA	3.5 Ton Scroll Refrigerant Compressor	1,502.69	246.99
23 61 19 00-0004	EA	4 Ton Scroll Refrigerant Compressor	1,544.58	261.24
23 61 19 00-0005	EA	4.5 Ton Scroll Refrigerant Compressor	1,576.25	268.70
23 61 19 00-0006	EA	5 Ton Scroll Refrigerant Compressor	1,956.80	339.27
23 61 19 00-0007	EA	7.5 Ton Scroll Refrigerant Compressor	3,640.76	508.90
23 61 19 00-0008	EA	8.75 Ton Scroll Refrigerant Compressor	4,172.77	593.72
23 61 19 00-0009	EA	10 Ton Scroll Refrigerant Compressor	4,683.41	678.55
23 61 19 00-0010	EA	12 Ton Scroll Refrigerant Compressor	5,656.52	814.25
23 61 19 00-0011	EA	13.5 Ton Scroll Refrigerant Compressor	6,642.17	916.03
23 61 19 00-0012	EA	15 Ton Scroll Refrigerant Compressor	7,755.53	1,017.81
23 61 19 00-0013	EA	20 Ton Scroll Refrigerant Compressor	10,882.02	1,357.08



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 61	19	00	0014	EA 25 Ton Scroll Refrigerant Compressor .....	12,371.71	1,696.36
23 61	19	00	0015	EA 30 Ton Scroll Refrigerant Compressor .....	13,365.98	2,035.63

**23 61 23 Rotary-Screw Refrigerant Compressors (23 61)**

**23 61 23 00-0001 Rotary Screw Type Refrigerant Compressors (23 61 23)**

23 61	23	00	0002	EA 75 Ton Refrigerant Compressor, Rotary Screw Type .....	43,595.01	3,457.17
23 61	23	00	0003	EA 80 Ton Refrigerant Compressor, Rotary Screw Type .....	44,896.99	3,499.65
23 61	23	00	0004	EA 90 Ton Refrigerant Compressor, Rotary Screw Type .....	47,716.42	3,584.60
23 61	23	00	0005	EA 100 Ton Refrigerant Compressor, Rotary Screw Type .....	50,508.34	3,669.83
23 61	23	00	0006	EA 110 Ton Refrigerant Compressor, Rotary Screw Type .....	54,029.18	3,753.54
23 61	23	00	0007	EA 120 Ton Refrigerant Compressor, Rotary Screw Type .....	57,285.38	3,837.55
23 61	23	00	0008	EA 130 Ton Refrigerant Compressor, Rotary Screw Type .....	60,460.85	3,886.40
23 61	23	00	0009	EA 140 Ton Refrigerant Compressor, Rotary Screw Type .....	63,770.64	4,006.63
23 61	23	00	0010	EA 150 Ton Refrigerant Compressor, Rotary Screw Type .....	67,030.59	4,090.65
23 61	23	00	0011	EA 170 Ton Refrigerant Compressor, Rotary Screw Type .....	71,605.46	4,202.73
23 61	23	00	0012	EA 185 Ton Refrigerant Compressor, Rotary Screw Type .....	74,810.22	4,247.92
23 61	23	00	0013	EA 200 Ton Refrigerant Compressor, Rotary Screw Type .....	76,314.76	4,318.22
23 61	23	00	0014	EA 215 Ton Refrigerant Compressor, Rotary Screw Type .....	85,595.57	4,609.45
23 61	23	00	0015	EA 225 Ton Refrigerant Compressor, Rotary Screw Type .....	94,726.72	4,857.94

**23 62 Packaged Compressor and Condenser Units (23 60)**

**23 62 13 Packaged Air-Cooled Refrigerant Compressor and Condenser Units (23 62)**

**23 62 13 00-0001 Combination Direct-Expansion Liquid Cooler And Compressors (23 62 13)**

Note: Shell and tube type. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

23 62	13	00	0002	EA 1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	7,385.14	1,253.94
23 62	13	00	0003	EA 5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	15,799.95	1,343.51
23 62	13	00	0004	EA 10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	27,373.61	1,433.08
23 62	13	00	0005	EA 15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	32,355.92	1,522.65
23 62	13	00	0006	EA 20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	38,307.54	1,612.21
23 62	13	00	0007	EA 25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	42,456.23	1,791.35
23 62	13	00	0008	EA 30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	43,567.82	1,885.25
23 62	13	00	0009	EA 40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	46,901.18	2,149.31
23 62	13	00	0010	EA 50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	50,055.19	2,328.41
23 62	13	00	0011	EA 60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	57,321.77	2,507.52
23 62	13	00	0012	EA 75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	64,788.75	2,776.19
23 62	13	00	0013	EA 80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	68,461.09	2,885.17
23 62	13	00	0014	EA 90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	77,240.37	3,065.50
23 62	13	00	0015	EA 100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube .....	84,395.34	3,245.82

**23 62 13 00-0016 Direct-Expansion Liquid Cooler Shell And Tube Type (23 62 13)**

Note: For built-up systems. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Excludes compressors. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

23 62	13	00	0017	EA 1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	7,072.11	1,253.94
23 62	13	00	0018	EA 5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	14,018.26	1,343.51
23 62	13	00	0019	EA 10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	21,609.58	1,433.08
23 62	13	00	0020	EA 15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	23,329.16	1,522.65
23 62	13	00	0021	EA 20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	25,048.71	1,612.21
23 62	13	00	0022	EA 25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	29,639.74	1,791.35
23 62	13	00	0023	EA 30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	33,381.69	1,885.25
23 62	13	00	0024	EA 40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	42,708.97	2,149.31
23 62	13	00	0025	EA 50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	47,875.90	2,328.41
23 62	13	00	0026	EA 60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	51,763.55	2,507.52
23 62	13	00	0027	EA 75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	59,553.02	2,776.19
23 62	13	00	0028	EA 80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	63,059.29	2,885.17
23 62	13	00	0029	EA 90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	69,144.42	3,065.50
23 62	13	00	0030	EA 100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems .....	78,776.80	3,245.82

**23 62 13 00-0031 Packaged Chiller With Remote Air Cooled Condenser (23 62 13)**

Note: With remote air cooled condenser rated by cooling capacity. Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, vibration eliminators, phase monitoring for 3 phase units, start-up and equipment rigging. Units include dual compressors. Excludes piping and power wiring.

23 62	13	00	0032	EA 15 Ton Packaged Chiller With Remote Air Cooled Condensers .....	38,829.10	10,442.86
				<i>For Gas Fired Engine Driven, Add</i>	6,200.18	
23 62	13	00	0033	EA 20 Ton Packaged Chiller With Remote Air Cooled Condensers .....	43,369.58	11,007.32
				<i>For Gas Fired Engine Driven, Add</i>	7,023.65	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 62 Packaged Compressor and Condenser Units**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 62 13 00-0034	EA		25 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	49,863.27 8,176.78	11,978.44
23 62 13 00-0035	EA		30 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	55,351.56 9,162.19	12,727.17
23 62 13 00-0036	EA		40 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	68,072.25 11,508.94	14,043.75
23 62 13 00-0037	EA		50 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	74,533.45 12,725.98	14,545.25
23 62 13 00-0038	EA		60 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	80,912.63 13,834.07	15,664.14
23 62 13 00-0039	EA		70 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	97,142.74 16,884.39	16,760.10
23 62 13 00-0040	EA		75 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	98,238.82 17,086.35	17,084.55
23 62 13 00-0041	EA		80 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	100,276.03 17,382.43	17,827.42
23 62 13 00-0042	EA		90 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	110,595.84 19,324.90	18,637.79
23 62 13 00-0043	EA		100 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	121,721.68 21,417.01	19,525.33
23 62 13 00-0044	EA		110 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	134,286.62 23,783.63	20,501.53
23 62 13 00-0045	EA		120 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	144,859.99 25,736.53	21,580.61
23 62 13 00-0046	EA		140 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	159,251.35 28,435.06	22,779.48

**23 62 23 Packaged Water-Cooled Refrigerant Compressor and Condenser Units (23 62)**

**23 62 23 00-0001 Water Cooled Condensing Units (23 62 23)**

Note: Includes compressor, condenser and motor, and equipment rigging. Excludes piping and power wiring.

23 62 23 00-0002	EA		5 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	8,428.24	980.22
23 62 23 00-0003	EA		10 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	12,767.98	1,431.55
23 62 23 00-0004	EA		15 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	14,593.34	1,551.43
23 62 23 00-0005	EA		20 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	18,078.46	1,861.72
23 62 23 00-0006	EA		30 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	19,579.69	2,190.34
23 62 23 00-0007	EA		60 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	40,900.52	3,108.34
23 62 23 00-0008	EA		80 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	50,736.29	3,751.50
23 62 23 00-0009	EA		120 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	69,915.45	4,104.72

**23 63 Refrigerant Condensers (23 60)**

**23 63 13 Air-Cooled Refrigerant Condensers (23 63)**

**23 63 13 00-0001 Air Cooled Condensing Units (23 63 13)**

Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers and phase monitoring for 3 phase units and equipment rigging. Meets minimum ASHRAE EER requirements. Excludes piping and power wiring.

23 63 13 00-0002	EA		6 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	7,222.21	980.22
			<i>For &gt;10 To 25, Deduct</i>	-172.13	
			<i>For &gt;25 To 50, Deduct</i>	-286.88	
			<i>For &gt;50, Deduct</i>	-459.01	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,117.04	
			<i>For Winter Start Control, Add</i>	377.97	
23 63 13 00-0003	EA		7.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	8,648.10	1,163.57
			<i>For &gt;10 To 25, Deduct</i>	-206.55	
			<i>For &gt;25 To 50, Deduct</i>	-344.26	
			<i>For &gt;50, Deduct</i>	-550.81	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	991.56	
			<i>For Winter Start Control, Add</i>	314.00	
23 63 13 00-0004	EA		10 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	11,226.75	1,431.55
			<i>For &gt;10 To 25, Deduct</i>	-271.71	
			<i>For &gt;25 To 50, Deduct</i>	-452.85	
			<i>For &gt;50, Deduct</i>	-724.55	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,176.44	
			<i>For Winter Start Control, Add</i>	398.12	
23 63 13 00-0005	EA		12.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	13,831.93	1,489.37
			<i>For &gt;10 To 25, Deduct</i>	-347.26	
			<i>For &gt;25 To 50, Deduct</i>	-578.77	
			<i>For &gt;50, Deduct</i>	-926.02	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,374.43	
			<i>For Winter Start Control, Add</i>	457.17	
23 63 13 00-0006	EA		15 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	16,444.33	1,551.43
			<i>For &gt;10 To 25, Deduct</i>	-422.81	
			<i>For &gt;25 To 50, Deduct</i>	-704.68	
			<i>For &gt;50, Deduct</i>	-1,127.49	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,433.28	
			<i>For Winter Start Control, Add</i>	376.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0007 EA 20 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	21,165.67	1,861.72
<i>For &gt;10 To 25, Deduct</i>	-550.35	
<i>For &gt;25 To 50, Deduct</i>	-917.24	
<i>For &gt;50, Deduct</i>	-1,467.59	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,805.89	
<i>For Winter Start Control, Add</i>	465.53	
23 63 13 00-0008 EA 25 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	24,056.80	2,002.76
<i>For &gt;10 To 25, Deduct</i>	-630.75	
<i>For &gt;25 To 50, Deduct</i>	-1,051.25	
<i>For &gt;50, Deduct</i>	-1,682.00	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,914.33	
<i>For Winter Start Control, Add</i>	513.43	
23 63 13 00-0009 EA 30 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	27,567.29	2,186.11
<i>For &gt;10 To 25, Deduct</i>	-727.79	
<i>For &gt;25 To 50, Deduct</i>	-1,212.98	
<i>For &gt;50, Deduct</i>	-1,940.77	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,039.90	
<i>For Winter Start Control, Add</i>	573.36	
23 63 13 00-0010 EA 40 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	37,661.13	2,472.55
<i>For &gt;10 To 25, Deduct</i>	-1,015.44	
<i>For &gt;25 To 50, Deduct</i>	-1,692.40	
<i>For &gt;50, Deduct</i>	-2,707.84	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,645.69	
<i>For Winter Start Control, Add</i>	719.80	
23 63 13 00-0011 EA 50 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	45,746.26	3,108.34
<i>For &gt;10 To 25, Deduct</i>	-1,228.58	
<i>For &gt;25 To 50, Deduct</i>	-2,047.63	
<i>For &gt;50, Deduct</i>	-3,276.20	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,836.53	
<i>For Winter Start Control, Add</i>	684.13	
23 63 13 00-0012 EA 60 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	52,672.24	3,430.66
<i>For &gt;10 To 25, Deduct</i>	-1,425.63	
<i>For &gt;25 To 50, Deduct</i>	-2,376.06	
<i>For &gt;50, Deduct</i>	-3,801.69	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	3,188.62	
<i>For Winter Start Control, Add</i>	752.72	
23 63 13 00-0013 EA 80 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	68,167.39	3,751.50
<i>For &gt;10 To 25, Deduct</i>	-1,871.46	
<i>For &gt;25 To 50, Deduct</i>	-3,119.09	
<i>For &gt;50, Deduct</i>	-4,990.55	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	3,941.65	
<i>For Winter Start Control, Add</i>	890.46	
23 63 13 00-0014 EA 100 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	93,979.81	3,377.82
<i>For &gt;10 To 25, Deduct</i>	-2,613.11	
<i>For &gt;25 To 50, Deduct</i>	-4,355.18	
<i>For &gt;50, Deduct</i>	-6,968.29	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	4,332.16	
<i>For Winter Start Control, Add</i>	1,123.14	
23 63 13 00-0015 EA 120 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	115,699.99	3,492.32
<i>For &gt;10 To 25, Deduct</i>	-3,257.72	
<i>For &gt;25 To 50, Deduct</i>	-5,429.53	
<i>For &gt;50, Deduct</i>	-8,687.25	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	5,035.05	
<b>23 63 13 00-0016 Air Cooled Condensing Units <small>(23 63 13)</small></b>		
Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers, 14 SEER, 1 or 3 phase and equipment rigging. Higher SEER ratings can be obtained by oversizing evaporators. Includes 20' length of piping (liquid line and insulated suction line). Excludes additional piping and power wiring.		
23 63 13 00-0017 EA 1.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,323.42	460.20
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For &gt;10 To 25, Deduct</i>	-48.99	
<i>For &gt;25 To 50, Deduct</i>	-81.66	
<i>For &gt;50, Deduct</i>	-130.65	
<i>For 15 SEER, Add</i>	391.95	
<i>For 16 SEER, Add</i>	669.58	
<i>For 18 SEER, Add</i>	1,404.48	
23 63 13 00-0018 EA 2 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,504.19	511.59
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For &gt;10 To 25, Deduct</i>	-52.12	
<i>For &gt;25 To 50, Deduct</i>	-86.86	
<i>For &gt;50, Deduct</i>	-138.97	
<i>For 15 SEER, Add</i>	416.92	
<i>For 16 SEER, Add</i>	712.24	
<i>For 18 SEER, Add</i>	1,493.97	
23 63 13 00-0019 EA 2.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,663.77	562.75
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For &gt;10 To 25, Deduct</i>	-54.60	
<i>For &gt;25 To 50, Deduct</i>	-91.00	
<i>For &gt;50, Deduct</i>	-145.61	
<i>For 15 SEER, Add</i>	436.82	
<i>For 16 SEER, Add</i>	746.23	
<i>For 18 SEER, Add</i>	1,565.26	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 63 Refrigerant Condensers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0020 EA 3 Ton, 14 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	3,049.11	613.60
For >10 To 25, Deduct	-63.86	
For >25 To 50, Deduct	-106.44	
For >50, Deduct	-170.30	
For 15 SEER, Add	510.89	
For 16 SEER, Add	872.77	
For 18 SEER, Add	1,830.68	
23 63 13 00-0021 EA 3.5 Ton, 14 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	3,233.38	665.07
For >10 To 25, Deduct	-67.09	
For >25 To 50, Deduct	-111.81	
For >50, Deduct	-178.90	
For 15 SEER, Add	536.71	
For 16 SEER, Add	916.87	
For 18 SEER, Add	1,923.20	
23 63 13 00-0022 EA 4 Ton, 14 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	3,595.80	716.22
For >10 To 25, Deduct	-75.66	
For >25 To 50, Deduct	-126.10	
For >50, Deduct	-201.76	
For 15 SEER, Add	605.28	
For 16 SEER, Add	1,034.02	
For 18 SEER, Add	2,168.91	
23 63 13 00-0023 EA 5 Ton, 14 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	4,045.42	767.01
For >10 To 25, Deduct	-86.85	
For >25 To 50, Deduct	-144.75	
For >50, Deduct	-231.59	
For 15 SEER, Add	694.78	
For 16 SEER, Add	1,186.92	
For 18 SEER, Add	2,489.63	

**23 63 13 00-0024 Removal And Reinstallation Of AC Condensing Unit (23 63 13)**

Note: Includes storage and cleaning.

23 63 13 00-0025 EA Removal And Reinstallation Of Up To 5 Tons Air Cooled Condensing Unit .....	471.38	
23 63 13 00-0026 EA Removal And Reinstallation Of 7.5 To 15 Tons Air Cooled Condensing Unit.....	1,767.68	
23 63 13 00-0027 EA Removal And Reinstallation Of 20 To 40 Tons Air Cooled Condensing Unit.....	2,963.01	

**23 64 Packaged Water Chillers (23 60)**

See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

**23 64 13 Absorption Water Chillers (23 64)**

**23 64 13 16 Indirect-Fired Absorption Water Chillers (23 64 13)**

**23 64 13 16-0001 Packaged, Steam Driven, Water Cooled Absorption Chillers (23 64 13 16)**

Note: Includes refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, and all accessories, controls (water temperature controller with PE switches, flow switch, etc.) factory wired and installed control panel, and also includes start-up. Price includes closed transition starter. (rated by cooling capacity in tons). Units are factory assembled package type consisting of motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, controls, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Exclude piping and power wiring.

23 64 13 16-0002 EA 50 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	201,401.49	14,247.29
For Two Stage Unit, Add	129,583.22	
23 64 13 16-0003 EA 100 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	253,576.98	16,393.03
For Two Stage Unit, Add	164,389.46	
23 64 13 16-0004 EA 150 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	320,050.82	17,622.51
For Two Stage Unit, Add	209,937.57	
23 64 13 16-0005 EA 200 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	355,170.98	18,851.98
For Two Stage Unit, Add	233,538.10	
23 64 13 16-0006 EA 250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	395,892.80	19,398.41
For Two Stage Unit, Add	261,606.22	
23 64 13 16-0007 EA 300 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	445,162.01	20,081.46
For Two Stage Unit, Add	295,548.24	
23 64 13 16-0008 EA 350 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	477,011.90	20,764.51
For Two Stage Unit, Add	317,296.72	
23 64 13 16-0009 EA 400 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	566,294.20	21,857.37
For Two Stage Unit, Add	378,920.04	
23 64 13 16-0010 EA 500 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	632,982.74	22,540.41
For Two Stage Unit, Add	425,055.58	
23 64 13 16-0011 EA 650 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	764,993.68	23,223.45
For Two Stage Unit, Add	516,916.80	
23 64 13 16-0012 EA 750 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	829,239.88	24,862.76
For Two Stage Unit, Add	560,577.71	
23 64 13 16-0013 EA 850 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	888,858.05	26,365.45
For Two Stage Unit, Add	601,108.27	
23 64 13 16-0014 EA 950 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	951,583.74	27,244.50
For Two Stage Unit, Add	644,313.01	
23 64 13 16-0015 EA 1,125 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	1,088,045.35	27,909.00
For Two Stage Unit, Add	739,251.38	
23 64 13 16-0016 EA 1,250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller .....	1,191,263.08	29,503.81
For Two Stage Unit, Add	810,281.12	



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>		<b>23</b>
<b>Central Cooling Equipment</b>		<b>23 60</b>
<b>Packaged Water Chillers</b>		<b>23 64</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 64 13 16-0017	EA		1,450 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller ..... <i>For Two Stage Unit, Add</i>	1,389,888.41 948,255.64	30,832.80
23 64 13 16-0018	EA		1,700 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller ..... <i>For Two Stage Unit, Add</i>	1,622,990.37 1,110,682.79	31,763.11

**23 64 16 Centrifugal Water Chillers (23 64)**

**23 64 16 16 Water-Cooled Centrifugal Water Chillers (23 64 16)**

**23 64 16 16-0001 Packaged Water-Cooled Centrifugal Water Chillers (23 64 16 16)**

Note: Includes integral heat exchanger, refrigerant monitor with scanner, audible alarm, and lights, 460 voltage motor rating, controls (water temperature controller with PE switches, flow switch, etc.), start-up, and closed transition starter. Rated by cooling capacity in tons. Units are factory assembled package type consisting of compressor, motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, factory wired and installed control panel, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.

23 64 16 16-0002	EA		180 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	151,586.27 5,562.65	7,794.21
23 64 16 16-0003	EA		200 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	165,539.83 6,107.94	7,991.60
23 64 16 16-0004	EA		225 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	182,391.45 6,769.12	8,194.74
23 64 16 16-0005	EA		250 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	198,880.22 7,407.56	8,523.28
23 64 16 16-0006	EA		275 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	215,046.13 8,023.27	9,004.56
23 64 16 16-0007	EA		300 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	230,622.46 8,616.25	9,472.71
23 64 16 16-0008	EA		325 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	245,711.25 9,186.43	9,992.10
23 64 16 16-0009	EA		350 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	260,190.66 9,733.94	10,484.85
23 64 16 16-0010	EA		375 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	274,030.36 10,258.66	10,934.15
23 64 16 16-0011	EA		400 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	287,149.88 10,760.64	11,288.93
23 64 16 16-0012	EA		425 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	300,029.46 11,239.89	11,848.20
23 64 16 16-0013	EA		450 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	312,176.81 11,696.41	12,305.29
23 64 16 16-0014	EA		475 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	323,746.30 12,130.20	12,756.51
23 64 16 16-0015	EA		500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	334,584.11 12,541.26	13,105.96
23 64 16 16-0016	EA		550 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	354,176.91 13,295.11	13,570.70
23 64 16 16-0017	EA		600 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	371,223.88 13,958.03	13,865.77
23 64 16 16-0018	EA		650 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	386,623.03 14,529.96	14,551.13
23 64 16 16-0019	EA		700 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	399,765.53 15,010.96	15,246.89
23 64 16 16-0020	EA		750 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	410,750.43 15,401.17	16,012.30
23 64 16 16-0021	EA		800 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	436,221.29 16,370.36	16,784.83
23 64 16 16-0022	EA		850 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	461,513.18 17,332.57	17,554.89
23 64 16 16-0023	EA		900 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	486,745.75 18,287.64	18,398.85

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 64 Packaged Water Chillers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 16 16-0024 EA 950 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	511,935.37 19,235.52	19,328.06
23 64 16 16-0025 EA 1,000 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	535,710.34 20,176.20	19,698.71
23 64 16 16-0026 EA 1,100 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	581,596.88 21,819.01	22,729.36
23 64 16 16-0027 EA 1,200 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	625,795.90 23,393.77	25,768.65
23 64 16 16-0028 EA 1,300 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	667,372.41 24,900.32	28,230.62
23 64 16 16-0029 EA 1,400 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	705,740.26 26,338.68	29,746.48
23 64 16 16-0030 EA 1,500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	742,319.73 27,708.65	31,212.77
23 64 16 16-0031 EA 1,600 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	776,318.53 29,011.09	32,117.55
23 64 16 16-0032 EA 1,700 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	810,730.66 30,245.13	34,358.24
23 64 16 16-0033 EA 1,800 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	842,540.38 31,410.98	36,034.25
23 64 16 16-0034 EA 1,900 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	873,437.39 32,508.63	38,208.76
23 64 16 16-0035 EA 2,000 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	901,345.81 33,538.22	39,573.38
23 64 16 16-0036 EA 2,250 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	959,384.47 35,814.03	41,813.40
23 64 16 16-0037 EA 2,500 Ton Packaged Water-Cooled Centrifugal Water Chiller..... Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Voltage Motor Rating, Add</i>	1,012,035.04 37,663.92	44,322.16

**23 64 23 Scroll Water Chillers (23 64)**

**23 64 23 13 Air-Cooled Scroll Water Chillers (23 64 23)**

**23 64 23 13-0001 Packaged Air Cooled Scroll Water Chillers (23 64 23 13)**

Note: With integral heat exchanger. Rated by cooling capacity, tons. Units are factory assembled package type. Includes scroll compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, factory charge of refrigerant, start-up and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.

23 64 23 13-0002 EA 10 Ton Packaged Air Cooled Scroll Water Chiller .....	26,201.93	2,225.87
23 64 23 13-0003 EA 15 Ton Packaged Air Cooled Scroll Water Chiller .....	38,068.68	2,254.41
23 64 23 13-0004 EA 18 Ton Packaged Air Cooled Scroll Water Chiller .....	41,526.27	2,411.35
23 64 23 13-0005 EA 22 Ton Packaged Air Cooled Scroll Water Chiller .....	45,651.77	2,582.57
23 64 23 13-0006 EA 25 Ton Packaged Air Cooled Scroll Water Chiller .....	46,453.95	2,753.79
23 64 23 13-0007 EA 30 Ton Packaged Air Cooled Scroll Water Chiller .....	49,043.29	2,953.55
23 64 23 13-0008 EA 40 Ton Packaged Air Cooled Scroll Water Chiller .....	55,993.47	3,196.11
23 64 23 13-0009 EA 45 Ton Packaged Air Cooled Scroll Water Chiller .....	60,143.18	3,467.21
23 64 23 13-0010 EA 50 Ton Packaged Air Cooled Scroll Water Chiller .....	63,470.23	3,567.09
23 64 23 13-0011 EA 55 Ton Packaged Air Cooled Scroll Water Chiller .....	66,288.51	3,724.05
23 64 23 13-0012 EA 60 Ton Packaged Air Cooled Scroll Water Chiller .....	68,516.57	3,852.46
23 64 23 13-0013 EA 70 Ton Packaged Air Cooled Scroll Water Chiller .....	78,997.60	4,337.58
23 64 23 13-0014 EA 80 Ton Packaged Air Cooled Scroll Water Chiller .....	85,075.80	4,751.37
23 64 23 13-0015 EA 90 Ton Packaged Air Cooled Scroll Water Chiller .....	86,588.54	4,765.63
23 64 23 13-0016 EA 100 Ton Packaged Air Cooled Scroll Water Chiller .....	91,493.24	4,779.90
23 64 23 13-0017 EA 110 Ton Packaged Air Cooled Scroll Water Chiller .....	96,264.37	4,794.17
23 64 23 13-0018 EA 120 Ton Packaged Air Cooled Scroll Water Chiller .....	101,094.77	4,808.44
23 64 23 13-0019 EA 130 Ton Packaged Air Cooled Scroll Water Chiller .....	106,177.14	4,822.71

**23 64 23 16 Water-Cooled Scroll Water Chillers (23 64 23)**





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>23 64 23 16-0001</b>			<b>Packaged Water Cooled Scroll Water Chillers</b> <small>(23 64 23 16)</small>		
<p>Note: Integral heat exchanger. Rated by cooling capacity in tons. Units are factory assembled package type. Includes hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.</p>					
23 64 23 16-0002	EA		20 Ton Packaged Water Cooled Scroll Water Chiller .....	27,268.91	2,604.56
23 64 23 16-0003	EA		25 Ton Packaged Water Cooled Scroll Water Chiller .....	31,199.75	2,683.24
23 64 23 16-0004	EA		30 Ton Packaged Water Cooled Scroll Water Chiller .....	34,594.86	2,945.64
23 64 23 16-0005	EA		40 Ton Packaged Water Cooled Scroll Water Chiller .....	42,444.77	3,636.61
23 64 23 16-0006	EA		50 Ton Packaged Water Cooled Scroll Water Chiller .....	46,934.55	3,985.03
23 64 23 16-0007	EA		60 Ton Packaged Water Cooled Scroll Water Chiller .....	49,435.06	4,402.96

**23 64 26 Rotary-Screw Water Chillers** (23 64)

**23 64 26 13 Air-Cooled, Rotary-Screw Water Chillers** (23 64 26)

<b>23 64 26 13-0001</b>			<b>Packaged Air Cooled Rotary-Screw Water Chillers</b> <small>(23 64 26 13)</small>		
<p>Note: Includes hermetic direct-drive compressors start-up, coil guards, copper fins, copper tubes, factory wired and installed control panel, refrigerant monitor with scanner, audible alarm, and lights, phase monitoring for 3 phase units, 440/460 voltage motor rating, motor starters, factory charge of refrigerant and equipment rigging. Units greater than 20 tons include dual compressors. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.</p>					
23 64 26 13-0002	EA		70 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	102,641.54	5,464.78
For Aluminum Fins Instead Of Copper, Deduct				-1,416.77	
For 208/230 Voltage Motor Rating, Add				3,778.06	
23 64 26 13-0003	EA		80 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	110,334.46	5,935.64
For Aluminum Fins Instead Of Copper, Deduct				-1,521.68	
For 208/230 Voltage Motor Rating, Add				4,057.81	
23 64 26 13-0004	EA		90 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	116,047.96	6,192.47
For Aluminum Fins Instead Of Copper, Deduct				-1,601.39	
For 208/230 Voltage Motor Rating, Add				4,270.37	
23 64 26 13-0005	EA		100 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	120,423.45	6,663.33
For Aluminum Fins Instead Of Copper, Deduct				-1,656.53	
For 208/230 Voltage Motor Rating, Add				4,417.42	
23 64 26 13-0006	EA		110 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	129,181.08	6,991.49
For Aluminum Fins Instead Of Copper, Deduct				-1,780.62	
For 208/230 Voltage Motor Rating, Add				4,748.32	
23 64 26 13-0007	EA		120 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	137,173.28	7,134.18
For Aluminum Fins Instead Of Copper, Deduct				-1,897.08	
For 208/230 Voltage Motor Rating, Add				5,058.88	
23 64 26 13-0008	EA		130 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	144,743.18	7,376.74
For Aluminum Fins Instead Of Copper, Deduct				-2,005.28	
For 208/230 Voltage Motor Rating, Add				5,347.41	
23 64 26 13-0009	EA		140 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	149,345.05	7,533.69
For Aluminum Fins Instead Of Copper, Deduct				-2,070.67	
For 208/230 Voltage Motor Rating, Add				5,521.78	
23 64 26 13-0010	EA		160 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	157,605.09	7,690.65
For Aluminum Fins Instead Of Copper, Deduct				-2,190.93	
For 208/230 Voltage Motor Rating, Add				5,842.48	
23 64 26 13-0011	EA		170 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	164,475.31	7,933.21
For Aluminum Fins Instead Of Copper, Deduct				-2,288.63	
For 208/230 Voltage Motor Rating, Add				6,103.02	
23 64 26 13-0012	EA		180 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	173,395.95	8,247.12
For Aluminum Fins Instead Of Copper, Deduct				-2,415.38	
For 208/230 Voltage Motor Rating, Add				6,441.01	
23 64 26 13-0013	EA		200 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	181,172.84	8,418.34
For Aluminum Fins Instead Of Copper, Deduct				-2,528.39	
For 208/230 Voltage Motor Rating, Add				6,742.38	
23 64 26 13-0014	EA		215 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	194,043.10	8,561.01
For Aluminum Fins Instead Of Copper, Deduct				-2,718.02	
For 208/230 Voltage Motor Rating, Add				7,248.06	
23 64 26 13-0015	EA		225 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	202,585.23	8,646.62
For Aluminum Fins Instead Of Copper, Deduct				-2,844.44	
For 208/230 Voltage Motor Rating, Add				7,585.18	
23 64 26 13-0016	EA		240 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	211,127.35	8,717.97
For Aluminum Fins Instead Of Copper, Deduct				-2,970.86	
For 208/230 Voltage Motor Rating, Add				7,922.30	
23 64 26 13-0017	EA		260 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	236,668.12	8,889.19
For Aluminum Fins Instead Of Copper, Deduct				-3,350.12	
For 208/230 Voltage Motor Rating, Add				8,933.66	
23 64 26 13-0018	EA		280 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	249,552.65	9,060.41
For Aluminum Fins Instead Of Copper, Deduct				-3,539.75	
For 208/230 Voltage Motor Rating, Add				9,439.34	
23 64 26 13-0019	EA		300 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	266,636.91	9,203.09
For Aluminum Fins Instead Of Copper, Deduct				-3,792.59	
For 208/230 Voltage Motor Rating, Add				10,113.58	
23 64 26 13-0020	EA		325 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	292,149.14	9,360.05
For Aluminum Fins Instead Of Copper, Deduct				-4,171.85	
For 208/230 Voltage Motor Rating, Add				11,124.93	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 64 Packaged Water Chillers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 64 26 13-0021 EA 350 Ton Packaged Air Cooled Rotary-Screw Water Chiller.....	318,231.51	9,474.19
<i>For Aluminum Fins Instead Of Copper, Deduct</i>	-4,560.30	
<i>For 208/230 Voltage Motor Rating, Add</i>	12,160.81	

**23 64 26 16 Water-Cooled, Rotary-Screw Water Chillers (23 64 26)**

**23 64 26 16-0001 Packaged Water Cooled Helical Rotary Water Chillers (23 64 26 16)**

Note: Integral heat exchanger. Rated by cooling capacity in tons. Factory assembled package type includes semi-hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gages, lead-lag switch, compressor unloaders, removable core filter dryer, 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, full factory refrigerant charge, vibration eliminators, NEMA 1 flow switches, wye-delta starter, extended warranty on compressor(s), start-up costs and equipment rigging. Excludes piping and power wiring.

23 64 26 16-0002 EA 70 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	68,015.81	6,147.39
23 64 26 16-0003 EA 80 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	73,710.89	6,386.46
23 64 26 16-0004 EA 90 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	78,665.67	6,557.21
23 64 26 16-0005 EA 100 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	83,015.26	6,833.84
23 64 26 16-0006 EA 110 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	87,307.33	7,021.68
23 64 26 16-0007 EA 125 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	92,529.10	7,218.81
23 64 26 16-0008 EA 130 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	124,137.12	7,420.57
23 64 26 16-0009 EA 150 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	102,629.68	7,621.40
23 64 26 16-0010 EA 175 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	110,128.31	7,810.05
23 64 26 16-0011 EA 190 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	113,947.55	8,200.62
23 64 26 16-0012 EA 200 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	133,007.82	8,596.09
23 64 26 16-0013 EA 210 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	134,835.83	8,780.11
23 64 26 16-0014 EA 235 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	146,333.91	8,972.18
23 64 26 16-0015 EA 255 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	155,416.05	9,382.82
23 64 26 16-0016 EA 275 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	164,005.32	9,762.60
23 64 26 16-0017 EA 300 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	173,983.31	10,149.33
23 64 26 16-0018 EA 350 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	191,003.60	11,048.91
23 64 26 16-0019 EA 400 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	205,041.37	12,152.70
23 64 26 16-0020 EA 450 Ton Packaged Water Cooled Helical Rotary Water Chiller .....	216,115.26	13,368.51

**23 65 Cooling Towers (23 60)**

**23 65 13 Forced-Draft Cooling Towers (23 65)**

**23 65 13 16 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13)**

**23 65 13 16-0001 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13 16)**

**23 65 13 16-0002 Blow-Thru Centrifugal Fan Type Galvanized Cooling Towers (23 65 13 16-0001)**

Note: Including 2-speed motor internal piping, vibration switch, basin, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Design temperature 95 degree F in, 85 degree F out. Excludes crane and associated personnel.

23 65 13 16-0003 EA 50 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	20,266.81	2,368.54
<i>For Stainless Steel Cooling Tower, Add</i>	10,028.39	
23 65 13 16-0004 EA 75 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	27,798.00	2,896.48
<i>For Stainless Steel Cooling Tower, Add</i>	14,084.81	
23 65 13 16-0005 EA 100 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	34,958.65	3,638.44
<i>For Stainless Steel Cooling Tower, Add</i>	17,465.17	
23 65 13 16-0006 EA 125 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	40,266.92	4,066.48
<i>For Stainless Steel Cooling Tower, Add</i>	20,239.21	
23 65 13 16-0007 EA 150 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	45,995.10	4,580.14
<i>For Stainless Steel Cooling Tower, Add</i>	23,179.58	
23 65 13 16-0008 EA 175 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	51,708.83	5,136.61
<i>For Stainless Steel Cooling Tower, Add</i>	26,077.03	
23 65 13 16-0009 EA 200 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	58,016.18	5,721.61
<i>For Stainless Steel Cooling Tower, Add</i>	29,296.41	
23 65 13 16-0010 EA 225 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	63,478.70	6,449.30
<i>For Stainless Steel Cooling Tower, Add</i>	31,871.92	
23 65 13 16-0011 EA 250 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	69,213.12	7,162.71
<i>For Stainless Steel Cooling Tower, Add</i>	34,619.13	
23 65 13 16-0012 EA 275 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	76,032.34	8,475.41
<i>For Stainless Steel Cooling Tower, Add</i>	37,452.19	
23 65 13 16-0013 EA 300 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	82,703.04	9,388.58
<i>For Stainless Steel Cooling Tower, Add</i>	40,564.27	
23 65 13 16-0014 EA 325 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	87,164.77	9,987.85
<i>For Stainless Steel Cooling Tower, Add</i>	42,710.52	
23 65 13 16-0015 EA 350 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	92,380.91	10,572.86
<i>For Stainless Steel Cooling Tower, Add</i>	45,232.37	
23 65 13 16-0016 EA 375 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	97,411.57	11,086.52
<i>For Stainless Steel Cooling Tower, Add</i>	47,754.23	
23 65 13 16-0017 EA 400 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	103,143.36	11,600.17
<i>For Stainless Steel Cooling Tower, Add</i>	50,705.33	
23 65 13 16-0018 EA 425 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	109,253.77	12,227.99
<i>For Stainless Steel Cooling Tower, Add</i>	53,763.74	
23 65 13 16-0019 EA 450 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	116,154.77	12,855.80
<i>For Stainless Steel Cooling Tower, Add</i>	57,305.07	
23 65 13 16-0020 EA 475 Ton Blow-Thru Centrifugal Fan Type Cooling Tower .....	122,837.92	13,397.99
<i>For Stainless Steel Cooling Tower, Add</i>	60,792.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 13 16-0021 EA 500 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	129,535.34 64,280.41	13,940.19
23 65 13 16-0022 EA 550 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	142,088.35 71,255.74	14,525.19
23 65 13 16-0023 EA 600 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	155,714.49 78,874.96	15,095.93
23 65 13 16-0024 EA 650 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	161,194.27 82,094.34	15,409.83
23 65 13 16-0025 EA 700 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	167,747.18 85,957.61	15,609.59
23 65 13 16-0026 EA 750 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	175,620.43 89,928.18	16,408.61
23 65 13 16-0027 EA 800 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	184,745.66 94,649.95	17,207.64
23 65 13 16-0028 EA 850 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	193,985.03 99,371.71	18,078.01
23 65 13 16-0029 EA 900 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	204,655.24 104,951.98	18,948.39
23 65 13 16-0030 EA 950 Ton Blow-Thru Centrifugal Fan Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	215,704.08 110,639.57	19,947.17
23 65 13 16-0031 EA 1,000 Ton Centrifugal Type Cooling Tower..... <i>For Stainless Steel Cooling Tower, Add</i>	228,169.45 117,185.65	20,945.96

**23 65 14 Induced-Draft Cooling Towers (23 65)**

**23 65 14 13 Open-Circuit, Induced-Draft Counterflow Cooling Towers (23 65 14)**

**23 65 14 13-0001 Galvanized Induced Draft Axial Single Flow Propeller Type Cooling Towers**

(23 65 14 13)

Note: Includes internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.

23 65 14 13-0002 EA 10 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	10,472.37 1,211.29 2,422.59	1,598.06
23 65 14 13-0003 EA 20 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	12,362.31 1,464.82 2,929.64	1,726.47
23 65 14 13-0004 EA 30 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	14,741.98 1,774.69 3,549.37	1,940.50
23 65 14 13-0005 EA 40 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	16,356.21 1,971.87 3,943.75	2,140.26
23 65 14 13-0006 EA 50 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	19,327.82 2,366.25 4,732.50	2,368.54
23 65 14 13-0007 EA 60 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	22,424.45 2,790.08 5,580.16	2,554.03
23 65 14 13-0008 EA 75 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	25,732.23 3,211.34 6,422.68	2,896.48
23 65 14 13-0009 EA 100 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	32,141.68 3,943.75 7,887.50	3,638.44
23 65 14 13-0010 EA 125 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	35,080.13 4,281.78 8,563.57	4,066.48
23 65 14 13-0011 EA 150 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	53,036.90 6,851.16 13,702.33	4,580.14
23 65 14 13-0012 EA 200 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	64,235.87 8,257.06 16,514.11	5,721.61
23 65 14 13-0013 EA 300 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	83,765.08 10,300.37 20,600.75	9,388.58

**23 65 14 13-0014 Galvanized Induced Draft Double Flow Propeller Type Packaged Cooling Towers (23 65 14 13)**

Note: 3 GPM/ton draft. Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel.

23 65 14 13-0015 EA 100 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	32,141.68 3,943.75 7,887.50	3,638.44
23 65 14 13-0016 EA 150 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	42,731.00 5,305.28 10,610.56	4,580.14
23 65 14 13-0017 EA 200 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	54,260.23 6,760.71 13,521.42	5,721.61

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 65 Cooling Towers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 13-0018 EA 250 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	64,509.24 7,949.20 15,898.40	7,162.71
23 65 14 13-0019 EA 300 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	76,952.85 9,278.54 18,557.08	9,388.58
23 65 14 13-0020 EA 350 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	85,808.00 10,322.16 20,644.31	10,572.86
23 65 14 13-0021 EA 400 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	95,631.46 11,549.55 23,099.09	11,600.17
23 65 14 13-0022 EA 450 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	108,285.16 13,145.83 26,291.65	12,855.80
23 65 14 13-0023 EA 500 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	121,934.01 14,929.90 29,859.80	13,940.19
23 65 14 13-0024 EA 550 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	130,462.79 16,070.10 32,140.20	14,696.41
23 65 14 13-0025 EA 600 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	139,665.85 17,311.44 34,622.89	15,095.93
23 65 14 13-0026 EA 700 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	157,820.74 20,000.44 40,000.87	15,609.59
23 65 14 13-0027 EA 800 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	173,120.10 21,918.65 43,837.31	17,207.64
23 65 14 13-0028 EA 900 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	191,241.13 24,225.88 48,451.76	18,948.39

**23 65 14 14 Open-Circuit, Induced-Draft Crossflow Cooling Towers (23 65 14)**

**23 65 14 14-0001 Galvanized Induced Draft Crossflow Film Filled Propeller Type Cooling Towers (23 65 14 14)**

Note: Includes fan, 2-speed motor, geared speed reducer, louvers, drift eliminators, hot water distribution system, cold water collection basin, float valve and access door, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.

23 65 14 14-0002 EA 10 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	8,974.50 986.61 1,973.23	1,598.06
23 65 14 14-0003 EA 15 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	9,652.31 1,084.00 2,168.01	1,626.59
23 65 14 14-0004 EA 20 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	10,501.64 1,177.16 2,354.32	1,769.28
23 65 14 14-0005 EA 25 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	12,210.90 1,414.29 2,828.57	1,854.89
23 65 14 14-0006 EA 30 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	13,779.00 1,630.24 3,260.48	1,940.50
23 65 14 14-0007 EA 35 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	15,319.19 1,837.72 3,675.45	2,040.38
23 65 14 14-0008 EA 40 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	16,732.19 2,028.27 4,056.54	2,140.26
23 65 14 14-0009 EA 45 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	18,300.61 2,239.99 4,479.98	2,254.41
23 65 14 14-0010 EA 50 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	19,841.11 2,443.24 4,886.48	2,368.54
23 65 14 14-0011 EA 60 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	22,850.44 2,853.98 5,707.95	2,554.03
23 65 14 14-0012 EA 70 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	26,114.14 3,298.59 6,597.18	2,753.79
23 65 14 14-0013 EA 75 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	27,640.67 3,497.60 6,995.21	2,896.48
23 65 14 14-0014 EA 80 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	29,338.43 3,696.62 7,393.24	3,139.04
23 65 14 14-0015 EA 90 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	30,612.74 3,832.12 7,664.24	3,381.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0016 EA 100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	33,006.57 4,073.48 8,146.96	3,638.44
23 65 14 14-0017 EA 125 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	34,453.64 4,187.81 8,375.62	4,066.48
23 65 14 14-0018 EA 150 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	39,967.25 4,890.72 9,781.43	4,580.14
23 65 14 14-0019 EA 175 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	44,182.96 5,390.38 10,780.75	5,136.61
23 65 14 14-0020 EA 200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	46,620.82 5,614.80 11,229.60	5,721.61
23 65 14 14-0021 EA 225 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	53,831.87 6,520.96 13,041.91	6,449.30
23 65 14 14-0022 EA 250 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	59,052.63 7,130.71 14,261.42	7,162.71
23 65 14 14-0023 EA 275 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	63,436.65 7,473.69 14,947.39	8,475.41
23 65 14 14-0024 EA 300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	68,533.90 8,015.70 16,031.39	9,388.58
23 65 14 14-0025 EA 350 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	78,279.32 9,192.86 18,385.71	10,572.86
23 65 14 14-0026 EA 400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	86,271.76 10,145.59 20,291.18	11,600.17
23 65 14 14-0027 EA 450 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	95,369.14 11,208.42 22,416.85	12,855.80
23 65 14 14-0028 EA 500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	103,899.17 12,224.68 24,449.35	13,940.19
23 65 14 14-0029 EA 600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	118,457.24 14,130.15 28,260.30	15,095.93
23 65 14 14-0030 EA 700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	132,263.78 16,166.89 32,333.78	15,609.59
23 65 14 14-0031 EA 800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	147,760.48 18,114.71 36,229.42	17,207.64
23 65 14 14-0032 EA 900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	162,864.41 19,969.37 39,938.74	18,948.39
23 65 14 14-0033 EA 1,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	177,760.77 21,735.11 43,470.22	20,945.96
23 65 14 14-0034 EA 1,100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	194,221.37 23,966.63 47,933.27	21,959.01
23 65 14 14-0035 EA 1,200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	210,088.26 26,121.94 52,243.87	22,900.73
23 65 14 14-0036 EA 1,300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	223,643.27 27,692.90 55,385.79	24,869.75
23 65 14 14-0037 EA 1,400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	236,833.76 29,174.93 58,349.86	26,981.47
23 65 14 14-0038 EA 1,500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	249,616.96 30,568.04 61,136.09	29,207.33
23 65 14 14-0039 EA 1,600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	261,394.15 31,863.77 63,727.53	31,219.18
23 65 14 14-0040 EA 1,700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	273,021.13 33,066.33 66,132.66	33,516.37
23 65 14 14-0041 EA 1,800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	284,626.02 34,179.98 68,359.95	36,170.32
23 65 14 14-0042 EA 1,900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	295,567.46 35,196.23 70,392.46	38,824.21
23 65 14 14-0043 EA 2,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower..... <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	307,428.48 36,123.56 72,247.12	42,448.39

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 60 Central Cooling Equipment**

**23 65 Cooling Towers**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0044			<b>Induced Draft Crossflow Stainless Steel Propeller Type Cooling Towers</b> <sup>(23 65)</sup>		
			<sup>14 14)</sup> Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.		
23 65 14 14-0045	EA		100 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	86,289.68	3,638.44
			<i>For Induced Draft Counter Flow Type, Add</i>	4,021.98	
23 65 14 14-0046	EA		125 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	97,781.27	4,037.94
			<i>For Induced Draft Counter Flow Type, Add</i>	4,562.32	
23 65 14 14-0047	EA		150 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	106,913.91	4,580.14
			<i>For Induced Draft Counter Flow Type, Add</i>	4,977.57	
23 65 14 14-0048	EA		200 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	119,079.50	5,721.61
			<i>For Induced Draft Counter Flow Type, Add</i>	5,494.53	
23 65 14 14-0049	EA		250 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	135,130.52	7,162.71
			<i>For Induced Draft Counter Flow Type, Add</i>	6,180.80	
23 65 14 14-0050	EA		300 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	155,570.51	9,388.58
			<i>For Induced Draft Counter Flow Type, Add</i>	7,023.73	
23 65 14 14-0051	EA		350 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	169,614.17	10,572.86
			<i>For Induced Draft Counter Flow Type, Add</i>	7,631.03	
23 65 14 14-0052	EA		400 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	183,400.99	11,600.17
			<i>For Induced Draft Counter Flow Type, Add</i>	8,238.33	
23 65 14 14-0053	EA		500 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	211,885.14	13,940.19
			<i>For Induced Draft Counter Flow Type, Add</i>	9,474.19	
23 65 14 14-0054	EA		600 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	239,092.91	15,095.93
			<i>For Induced Draft Counter Flow Type, Add</i>	10,741.83	
23 65 14 14-0055	EA		750 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	295,438.29	16,408.61
			<i>For Induced Draft Counter Flow Type, Add</i>	13,416.42	
23 65 14 14-0056	EA		1,000 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower.....	382,948.15	20,945.96
			<i>For Induced Draft Counter Flow Type, Add</i>	17,504.41	
<b>23 65 14 16</b>			<b>Closed-Circuit, Induced-Draft Counterflow Cooling Towers</b> <sup>(23 65 14)</sup>		
23 65 14 16-0001			<b>Stainless Steel Packaged Propeller Type Cooling Towers</b> <sup>(23 65 14 16)</sup>		
			Note: Including internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 79 degree F wet Bulb. 3 GPM/ton.		
23 65 14 16-0002			<b>Draw-Thru Stainless Steel Propeller Type Cooling Towers</b> <sup>(23 65 14 16-0001)</sup>		
			Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.		
23 65 14 16-0003	EA		50 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	36,512.03	2,368.54
23 65 14 16-0004	EA		75 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	51,727.95	2,896.48
23 65 14 16-0005	EA		100 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	61,138.60	3,638.44
23 65 14 16-0006	EA		125 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	69,286.26	4,066.48
23 65 14 16-0007	EA		150 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	76,052.03	4,580.14
23 65 14 16-0008	EA		200 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	91,279.39	5,721.61
23 65 14 16-0009	EA		250 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	107,587.31	7,162.71
23 65 14 16-0010	EA		300 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	127,871.48	9,388.58
23 65 14 16-0011	EA		350 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	140,095.76	10,572.86
23 65 14 16-0012	EA		400 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	158,687.91	11,600.17
23 65 14 16-0013	EA		500 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	184,135.56	13,940.19
23 65 14 16-0014	EA		600 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	207,633.36	15,095.93
23 65 14 16-0015	EA		750 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	256,143.88	16,408.61
23 65 14 16-0016	EA		1,000 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower.....	325,875.14	20,717.67
23 65 14 16-0017			<b>Belt Driven Stainless Steel Propeller Type Cooling Towers</b> <sup>(23 65 14 16-0001)</sup>		
			Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.		
23 65 14 16-0018	EA		100 Ton Belt Driven Type Cooling Tower.....	63,627.60	3,638.44
23 65 14 16-0019	EA		125 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	68,898.80	4,066.48
23 65 14 16-0020	EA		150 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	74,316.90	4,580.14
23 65 14 16-0021	EA		200 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	87,998.63	5,721.61
23 65 14 16-0022	EA		250 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower.....	97,315.46	7,162.71
23 65 14 16-0023			<b>Fiberglass Packaged Draw-Thru Propeller Type Cooling Towers</b> <sup>(23 65 14 16)</sup>		
			Note: Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.		
23 65 14 16-0024	EA		5 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	4,739.62	1,483.91
23 65 14 16-0025	EA		8 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	4,988.18	1,555.25
23 65 14 16-0026	EA		10 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	5,703.94	1,598.06
23 65 14 16-0027	EA		15 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	6,364.27	1,626.59
23 65 14 16-0028	EA		20 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	8,178.78	1,769.28
23 65 14 16-0029	EA		25 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	8,643.26	1,854.89
23 65 14 16-0030	EA		30 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	9,699.20	1,940.50
23 65 14 16-0031	EA		40 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	11,141.46	2,140.26
23 65 14 16-0032	EA		50 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	12,424.88	2,368.54
23 65 14 16-0033	EA		60 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	13,878.92	2,554.03
23 65 14 16-0034	EA		70 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	15,926.07	2,753.79
23 65 14 16-0035	EA		80 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	17,397.45	3,139.04
23 65 14 16-0036	EA		100 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	21,107.89	3,638.44
23 65 14 16-0037	EA		125 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	25,892.11	4,066.48
23 65 14 16-0038	EA		150 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower.....	29,085.55	4,580.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 16-0039 EA 175 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	35,118.68	5,136.61
23 65 14 16-0040 EA 200 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	39,165.61	5,721.61
23 65 14 16-0041 EA 225 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	43,346.73	6,449.30
23 65 14 16-0042 EA 250 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	47,352.27	7,162.71
23 65 14 16-0043 EA 300 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	57,103.74	9,388.58
23 65 14 16-0044 EA 350 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	64,848.92	10,572.86
23 65 14 16-0045 EA 400 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	72,001.20	11,600.17
23 65 14 16-0046 EA 500 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	87,463.03	13,654.82
23 65 14 16-0047 EA 600 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	99,534.23	15,095.93
23 65 14 16-0048 EA 700 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	103,470.70	11,600.17
23 65 14 16-0049 EA 800 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	119,964.08	17,207.64
23 65 14 16-0050 EA 1,000 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower .....	134,887.26	14,339.71

**23 65 43 Cooling Tower Basins and Accessories** (23 65)

**23 65 43 00-0001 Fiberglass Cooling Tower Remote Sump Basins** (23 65 43)

Note: Includes one inlet sleeve. Excludes cover, excavation, backfill, concrete cut and concrete patch. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.

23 65 43 00-0002 EA 30" Diameter x 30" Depth, 92 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	1,547.99	
<i>For Anti-Flotation Flanges, Add</i>	115.00	
<i>For Perforated Basins, Add</i>	80.00	
23 65 43 00-0003 EA 30" Diameter x 36" Depth, 110 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	1,754.28	
<i>For Anti-Flotation Flanges, Add</i>	115.00	
<i>For Perforated Basins, Add</i>	80.00	
23 65 43 00-0004 EA 36" Diameter x 30" Depth, 132 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	1,711.83	
<i>For Anti-Flotation Flanges, Add</i>	253.00	
<i>For Perforated Basins, Add</i>	80.00	
23 65 43 00-0005 EA 36" Diameter x 36" Depth, 159 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	2,012.58	
<i>For Anti-Flotation Flanges, Add</i>	253.00	
<i>For Perforated Basins, Add</i>	80.00	
23 65 43 00-0006 EA 42" Diameter x 30" Depth, 180 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	2,189.96	
<i>For Anti-Flotation Flanges, Add</i>	276.00	
<i>For Perforated Basins, Add</i>	100.00	
23 65 43 00-0007 EA 42" Diameter x 36" Depth, 216 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	2,428.03	
<i>For Anti-Flotation Flanges, Add</i>	276.00	
<i>For Perforated Basins, Add</i>	100.00	
23 65 43 00-0008 EA 42" Diameter x 42" Depth, 252 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	2,666.10	
<i>For Anti-Flotation Flanges, Add</i>	276.00	
<i>For Perforated Basins, Add</i>	100.00	
23 65 43 00-0009 EA 48" Diameter x 36" Depth, 282 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	2,678.59	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0010 EA 48" Diameter x 42" Depth, 329 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	2,954.24	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0011 EA 48" Diameter x 48" Depth, 376 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	3,375.47	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0012 EA 48" Diameter x 54" Depth, 423 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	3,799.58	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0013 EA 48" Diameter x 60" Depth, 470 Gallon Capacity, Fiberglass Cooling Tower Sump Basin .....	4,069.45	
<i>For Anti-Flotation Flanges, Add</i>	294.00	
<i>For Perforated Basins, Add</i>	140.00	

**23 70 Central HVAC Equipment** (23)

Note: New air filters shall be provided on HVAC equipment prior to turning over to owner. Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

**23 71 Thermal Storage** (23 70)

**23 71 13 Thermal Heat Storage** (23 71)

**23 71 13 23 Pressurized-Water Thermal Storage Tanks** (23 71 13)

**23 71 13 23-0001 Nickelshield Storage Tanks** (23 71 13 23)

23 71 13 23-0002 EA 325 Gallon Nickelshield Storage Tank .....	29,878.86	271.14
23 71 13 23-0003 EA 490 Gallon Nickelshield Storage Tank .....	41,689.93	359.49
23 71 13 23-0004 EA 605 Gallon Nickelshield Storage Tank .....	47,736.00	434.81
23 71 13 23-0005 EA 740 Gallon Nickelshield Storage Tank .....	56,528.99	543.51
23 71 13 23-0006 EA 940 Gallon Nickelshield Storage Tank .....	65,795.57	722.51
23 71 13 23-0007 EA 1,505 Gallon Nickelshield Storage Tank .....	85,057.99	1,087.16
23 71 13 23-0008 EA 1,615 Gallon Nickelshield Storage Tank .....	96,051.49	1,224.50
23 71 13 23-0009 EA 2,275 Gallon Nickelshield Storage Tank .....	131,887.65	1,626.47
23 71 13 23-0010 EA 3,815 Gallon Nickelshield Storage Tank .....	170,586.40	1,890.83

**23 72 Air-To-Air Energy Recovery Equipment** (23 70)

**23 72 13 Heat-Wheel Air-To-Air Energy-Recovery Equipment** (23 72)

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 72 Air-To-Air Energy Recovery Equipment**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 72 13 00-0001 Enthalpy Recovery Wheel</b> <sup>(23 72 13)</sup>		
23 72 13 00-0002 EA Up To 1,000 CFM Enthalpy Recovery Wheel .....	11,017.68	1,020.93
23 72 13 00-0003 EA >1,000 To 2,000 CFM Enthalpy Recovery Wheel.....	12,272.44	1,225.42
23 72 13 00-0004 EA >2,000 To 4,000 CFM Enthalpy Recovery Wheel.....	15,355.84	1,531.78
23 72 13 00-0005 EA >4,000 To 6,000 CFM Enthalpy Recovery Wheel.....	17,938.97	1,750.06
23 72 13 00-0006 EA >6,000 To 8,000 CFM Enthalpy Recovery Wheel.....	19,804.65	1,838.14
23 72 13 00-0007 EA >8,000 To 10,000 CFM Enthalpy Recovery Wheel.....	23,984.35	2,042.63
23 72 13 00-0008 EA >10,000 To 15,000 CFM Enthalpy Recovery Wheel.....	31,604.47	2,144.49
23 72 13 00-0009 EA >15,000 To 20,000 CFM Enthalpy Recovery Wheel.....	39,197.66	2,297.67
23 72 13 00-0010 EA >20,000 To 25,000 CFM Enthalpy Recovery Wheel.....	47,397.98	2,625.48
23 72 13 00-0011 EA >25,000 To 30,000 CFM Enthalpy Recovery Wheel.....	53,309.56	3,369.92
23 72 13 00-0012 EA >30,000 To 40,000 CFM Enthalpy Recovery Wheel.....	71,136.49	3,829.45
23 72 13 00-0013 EA >40,000 To 50,000 CFM Enthalpy Recovery Wheel.....	84,628.00	4,595.34
<b>23 72 16 Heat-Pipe Air-To-Air Energy-Recovery Equipment</b> <sup>(23 72)</sup>		
<b>23 72 16 00-0001 Glycol Heat Pipe Type, 50 Percent Efficient</b> <sup>(23 72 16)</sup>		
23 72 16 00-0002 EA 100 MBH, 1,700 CFM Glycol Heat Recovery Unit .....	19,379.95	765.89
23 72 16 00-0003 EA 160 MBH, 2,700 CFM Glycol Heat Recovery Unit .....	30,389.47	1,021.24
23 72 16 00-0004 EA 620 MBH, 4,000 CFM Glycol Heat Recovery Unit .....	45,059.26	1,531.78
<b>23 73 Indoor Central-Station Air-Handling Units</b> <sup>(23 70)</sup>		
<b>23 73 13 Modular Indoor Central-Station Air-Handling Units</b> <sup>(23 73)</sup>		
Note: Sized by CFM. Includes motor drive vibration isolators. Use modifiers for Filters and heating and cooling coils. Includes double wall insulated casing, fan section, fan motor, internal dampers, starter, vibration isolators and equipment rigging. Variable speed drives are included on units with 10 HP or greater fans. Modifiers include cooling coil sections with 6 row aluminum fin coil and drain pan, heating coil section with 1 row aluminum fin coil, and filter section with replaceable filters.		
<b>23 73 13 00-0001 Single Zone Units</b> <sup>(23 73 13)</sup>		
Note: Horizontal/vertical draw-thru fan, motor and cabinet.		
23 73 13 00-0002 EA 300 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	2,826.22	723.18
<i>For Flat Filter Box And Throwaway Filters, Add</i>		
	230.97	
<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>		
	430.94	
<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>		
	641.24	
<i>For Manual Roll Filter, Add</i>		
	1,089.52	
<i>For Automatic Roll Filter, Add</i>		
	1,179.17	
<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>		
	551.59	
<i>For Electric Heating Coil, Add</i>		
	910.21	
<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>		
	910.21	
<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>		
	820.55	
<i>For Steam Heating Coil, Aluminum Fins, Add</i>		
	730.90	
<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>		
	589.59	
<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>		
	1,089.52	
<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>		
	999.86	
<i>For Hot Water Heating Coil, Copper Fins, Add</i>		
	730.90	
<i>For Variable Air Volume, Add</i>		
	251.03	
<i>For Economizer, Panel, Controls And Damper(s), Add</i>		
	1,363.18	
<i>For 2 Coils, Independent Circuits, Add</i>		
	318.48	
23 73 13 00-0003 EA 500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	4,411.15	867.81
<i>For Flat Filter Box And Throwaway Filters, Add</i>		
	379.18	
<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>		
	721.19	
<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>		
	1,075.60	
<i>For Manual Roll Filter, Add</i>		
	1,868.70	
<i>For Automatic Roll Filter, Add</i>		
	2,027.32	
<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>		
	916.98	
<i>For Electric Heating Coil, Add</i>		
	1,551.46	
<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>		
	1,551.46	
<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>		
	1,392.84	
<i>For Steam Heating Coil, Aluminum Fins, Add</i>		
	1,234.22	
<i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i>		
	1,013.66	
<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>		
	1,868.70	
<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>		
	1,710.08	
<i>For Hot Water Heating Coil, Copper Fins, Add</i>		
	1,234.22	
<i>For Variable Air Volume, Add</i>		
	444.14	
<i>For Economizer, Panel, Controls And Damper(s), Add</i>		
	1,507.13	
<i>For 2 Coils, Independent Circuits, Add</i>		
	504.56	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0004 EA 800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	4,977.17	932.00
For Flat Filter Box And Throwaway Filters, Add	431.15	
For Medium Capacity Filter Box And Throwaway Filters, Add	822.36	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,226.89	
For Manual Roll Filter, Add	2,138.35	
For Automatic Roll Filter, Add	2,320.64	
For Hot Water Heating Coil, Aluminum Fins, Add	1,044.59	
For Electric Heating Coil, Add	1,773.76	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,773.76	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,591.47	
For Steam Heating Coil, Aluminum Fins, Add	1,409.18	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,160.32	
For Chilled Water Cooling Coil, Copper Fins, Add	2,138.35	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,956.05	
For Hot Water Heating Coil, Copper Fins, Add	1,409.18	
For Variable Air Volume, Add	510.42	
For Economizer, Panel, Controls And Damper(s), Add	1,571.93	
For 2 Coils, Independent Circuits, Add	570.63	
23 73 13 00-0005 EA 1,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	5,606.09	1,001.48
For Flat Filter Box And Throwaway Filters, Add	489.06	
For Medium Capacity Filter Box And Throwaway Filters, Add	935.20	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,395.65	
For Manual Roll Filter, Add	2,439.44	
For Automatic Roll Filter, Add	2,648.20	
For Hot Water Heating Coil, Aluminum Fins, Add	1,186.89	
For Electric Heating Coil, Add	2,021.93	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,021.93	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,813.17	
For Steam Heating Coil, Aluminum Fins, Add	1,604.41	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,324.10	
For Chilled Water Cooling Coil, Copper Fins, Add	2,439.44	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,230.69	
For Hot Water Heating Coil, Copper Fins, Add	1,604.41	
For Variable Air Volume, Add	584.53	
For Economizer, Panel, Controls And Damper(s), Add	1,641.63	
For 2 Coils, Independent Circuits, Add	644.11	
23 73 13 00-0006 EA 1,200 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	6,346.30	1,077.41
For Flat Filter Box And Throwaway Filters, Add	557.76	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,069.40	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,596.42	
For Manual Roll Filter, Add	2,798.65	
For Automatic Roll Filter, Add	3,039.10	
For Hot Water Heating Coil, Aluminum Fins, Add	1,355.97	
For Electric Heating Coil, Add	2,317.76	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,317.76	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,077.31	
For Steam Heating Coil, Aluminum Fins, Add	1,836.86	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,519.55	
For Chilled Water Cooling Coil, Copper Fins, Add	2,798.65	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,558.20	
For Hot Water Heating Coil, Copper Fins, Add	1,836.86	
For Variable Air Volume, Add	673.25	
For Economizer, Panel, Controls And Damper(s), Add	1,716.16	
For 2 Coils, Independent Circuits, Add	730.81	
23 73 13 00-0007 EA 1,400 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	7,208.54	1,157.86
For Flat Filter Box And Throwaway Filters, Add	638.15	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,226.68	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,831.75	
For Manual Roll Filter, Add	3,220.38	
For Automatic Roll Filter, Add	3,498.10	
For Hot Water Heating Coil, Aluminum Fins, Add	1,554.03	
For Electric Heating Coil, Add	2,664.93	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,664.93	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,387.20	
For Steam Heating Coil, Aluminum Fins, Add	2,109.48	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,749.05	
For Chilled Water Cooling Coil, Copper Fins, Add	3,220.38	
For Direct Expansion Cooling Coil, Copper Fins, Add	2,942.65	
For Hot Water Heating Coil, Copper Fins, Add	2,109.48	
For Variable Air Volume, Add	777.63	
For Economizer, Panel, Controls And Damper(s), Add	1,797.83	
For 2 Coils, Independent Circuits, Add	831.94	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 73 Indoor Central-Station Air-Handling Units**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0008 EA 1,600 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	7,888.17	1,244.77
For Flat Filter Box And Throwaway Filters, Add	700.09	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,346.95	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,011.55	
For Manual Roll Filter, Add	3,539.97	
For Automatic Roll Filter, Add	3,845.65	
For Hot Water Heating Coil, Aluminum Fins, Add	1,705.87	
For Electric Heating Coil, Add	2,928.60	
For Chilled Water Cooling Coil, Aluminum Fins, Add	2,928.60	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,622.92	
For Steam Heating Coil, Aluminum Fins, Add	2,317.23	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,922.83	
For Chilled Water Cooling Coil, Copper Fins, Add	3,539.97	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,234.29	
For Hot Water Heating Coil, Copper Fins, Add	2,317.23	
For Variable Air Volume, Add	855.91	
For Economizer, Panel, Controls And Damper(s), Add	1,882.15	
For 2 Coils, Independent Circuits, Add	911.09	
23 73 13 00-0009 EA 1,800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	8,626.14	1,341.50
For Flat Filter Box And Throwaway Filters, Add	766.81	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,476.15	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,204.64	
For Manual Roll Filter, Add	3,882.17	
For Automatic Roll Filter, Add	4,217.68	
For Hot Water Heating Coil, Aluminum Fins, Add	1,869.13	
For Electric Heating Coil, Add	3,211.16	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,211.16	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,875.65	
For Steam Heating Coil, Aluminum Fins, Add	2,540.15	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,108.84	
For Chilled Water Cooling Coil, Copper Fins, Add	3,882.17	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,546.67	
For Hot Water Heating Coil, Copper Fins, Add	2,540.15	
For Variable Air Volume, Add	939.42	
For Economizer, Panel, Controls And Damper(s), Add	1,803.81	
For 2 Coils, Independent Circuits, Add	996.82	
23 73 13 00-0010 EA 2,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	9,435.86	1,438.23
For Flat Filter Box And Throwaway Filters, Add	840.85	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,620.06	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,419.81	
For Manual Roll Filter, Add	4,265.10	
For Automatic Roll Filter, Add	4,634.16	
For Hot Water Heating Coil, Aluminum Fins, Add	2,050.76	
For Electric Heating Coil, Add	3,526.99	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,526.99	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,157.93	
For Steam Heating Coil, Aluminum Fins, Add	2,788.87	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,317.08	
For Chilled Water Cooling Coil, Copper Fins, Add	4,265.10	
For Direct Expansion Cooling Coil, Copper Fins, Add	3,896.04	
For Hot Water Heating Coil, Copper Fins, Add	2,788.87	
For Variable Air Volume, Add	1,033.36	
For Economizer, Panel, Controls And Damper(s), Add	1,880.10	
For 2 Coils, Independent Circuits, Add	1,091.21	
23 73 13 00-0011 EA 2,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	10,186.05	1,545.92
For Flat Filter Box And Throwaway Filters, Add	908.18	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,750.11	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,614.13	
For Manual Roll Filter, Add	4,608.53	
For Automatic Roll Filter, Add	5,007.41	
For Hot Water Heating Coil, Aluminum Fins, Add	2,215.25	
For Electric Heating Coil, Add	3,810.77	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,810.77	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,411.89	
For Steam Heating Coil, Aluminum Fins, Add	3,013.01	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,503.70	
For Chilled Water Cooling Coil, Copper Fins, Add	4,608.53	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,209.65	
For Hot Water Heating Coil, Copper Fins, Add	3,013.01	
For Variable Air Volume, Add	1,116.86	
For Economizer, Panel, Controls And Damper(s), Add	1,964.65	
For 2 Coils, Independent Circuits, Add	1,178.16	



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>		<b>23</b>
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73	13 00-0012	EA	2,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	10,987.40 979.94 1,888.59 2,821.01 4,973.84 5,404.41 2,390.44 4,112.71 4,112.71 3,682.14 3,251.57 2,702.20 4,973.84 4,543.27 3,251.57 1,205.59 2,056.84 1,270.97	1,663.44
23 73	13 00-0013	EA	3,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	12,778.49 1,140.32 2,198.12 3,283.43 5,790.41 6,291.81 2,782.04 4,787.62 4,787.62 4,286.23 3,784.83 3,145.90 5,790.41 5,289.02 3,784.83 1,403.91 2,262.81 1,478.41	1,925.46
23 73	13 00-0014	EA	3,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	13,394.81 1,191.64 2,294.57 3,427.08 6,036.57 6,558.47 2,905.18 4,992.77 4,992.77 4,470.88 3,948.98 3,279.24 6,036.57 5,514.67 3,948.98 1,461.32 2,376.26 1,548.24	2,069.19
23 73	13 00-0015	EA	3,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	14,024.90 1,243.65 2,391.99 3,572.10 6,284.11 6,826.51 3,029.70 5,199.30 5,199.30 4,656.90 4,114.50 3,413.26 6,284.11 5,741.71 4,114.50 1,518.73 2,497.27 1,619.45	2,223.77

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0016 EA 4,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	15,411.46	2,567.29
For Flat Filter Box And Throwaway Filters, Add	1,357.71	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,605.36	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,889.69	
For Manual Roll Filter, Add	6,825.37	
For Automatic Roll Filter, Add	7,412.51	
For Hot Water Heating Coil, Aluminum Fins, Add	3,302.56	
For Electric Heating Coil, Add	5,651.10	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,651.10	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,063.97	
For Steam Heating Coil, Aluminum Fins, Add	4,476.83	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,706.26	
For Chilled Water Cooling Coil, Copper Fins, Add	6,825.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,238.24	
For Hot Water Heating Coil, Copper Fins, Add	4,476.83	
For Variable Air Volume, Add	1,643.98	
For Economizer, Panel, Controls And Damper(s), Add	2,407.49	
For 2 Coils, Independent Circuits, Add	1,776.00	
23 73 13 00-0017 EA 4,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	15,411.46	2,567.29
For Flat Filter Box And Throwaway Filters, Add	1,357.71	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,605.36	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,889.69	
For Manual Roll Filter, Add	6,825.37	
For Automatic Roll Filter, Add	7,412.51	
For Hot Water Heating Coil, Aluminum Fins, Add	3,302.56	
For Electric Heating Coil, Add	5,651.10	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,651.10	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,063.97	
For Steam Heating Coil, Aluminum Fins, Add	4,476.83	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,706.26	
For Chilled Water Cooling Coil, Copper Fins, Add	6,825.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,238.24	
For Hot Water Heating Coil, Copper Fins, Add	4,476.83	
For Variable Air Volume, Add	1,643.98	
For Economizer, Panel, Controls And Damper(s), Add	2,407.49	
For 2 Coils, Independent Circuits, Add	1,776.00	
23 73 13 00-0018 EA 5,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	16,925.32	2,948.76
For Flat Filter Box And Throwaway Filters, Add	1,481.86	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,837.33	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,234.93	
For Manual Roll Filter, Add	7,412.92	
For Automatic Roll Filter, Add	8,048.52	
For Hot Water Heating Coil, Aluminum Fins, Add	3,599.33	
For Electric Heating Coil, Add	6,141.72	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,141.72	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,506.12	
For Steam Heating Coil, Aluminum Fins, Add	4,870.52	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,024.26	
For Chilled Water Cooling Coil, Copper Fins, Add	7,412.92	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,777.32	
For Hot Water Heating Coil, Copper Fins, Add	4,870.52	
For Variable Air Volume, Add	1,779.68	
For Economizer, Panel, Controls And Damper(s), Add	2,625.34	
For 2 Coils, Independent Circuits, Add	1,946.77	
23 73 13 00-0019 EA 5,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	17,805.16	3,199.16
For Flat Filter Box And Throwaway Filters, Add	1,551.95	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,966.76	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,427.29	
For Manual Roll Filter, Add	7,735.76	
For Automatic Roll Filter, Add	8,397.45	
For Hot Water Heating Coil, Aluminum Fins, Add	3,765.60	
For Electric Heating Coil, Add	6,412.37	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,412.37	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,750.68	
For Steam Heating Coil, Aluminum Fins, Add	5,088.98	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,198.73	
For Chilled Water Cooling Coil, Copper Fins, Add	7,735.76	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,074.06	
For Hot Water Heating Coil, Copper Fins, Add	5,088.98	
For Variable Air Volume, Add	1,852.74	
For Economizer, Panel, Controls And Damper(s), Add	2,768.52	
For 2 Coils, Independent Circuits, Add	2,045.19	



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>		<b>23</b>
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0020	EA		6,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	18,666.01 1,621.09 3,094.87 4,617.76 8,056.70 8,744.49 3,929.97 6,681.12 6,681.12 5,993.33 5,305.54 4,372.24 8,056.70 7,368.91 5,305.54 1,925.81 2,904.10 2,141.72	3,436.91
23 73 13 00-0021	EA		6,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	19,532.57 1,690.51 3,223.38 4,808.79 8,378.21 9,092.09 4,094.91 6,950.44 6,950.44 6,236.56 5,522.67 4,546.05 8,378.21 7,664.33 5,522.67 1,998.87 3,041.96 2,238.81	3,679.18
23 73 13 00-0022	EA		7,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	20,531.91 1,770.30 3,370.87 5,028.02 8,746.55 9,490.25 4,284.31 7,259.13 7,259.13 6,515.43 5,771.72 4,745.13 8,746.55 8,002.84 5,771.72 2,082.38 3,203.12 2,350.67	3,960.31
23 73 13 00-0023	EA		7,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	21,547.72 1,850.92 3,519.52 5,248.89 9,116.53 9,890.06 4,475.36 7,569.48 7,569.48 6,795.95 6,022.42 4,945.03 9,116.53 8,343.00 6,022.42 2,165.88 3,003.14 2,464.18	4,243.25

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0024 EA 8,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	22,597.46	4,569.46
For Flat Filter Box And Throwaway Filters, Add	1,933.23	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,670.54	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,473.15	
For Manual Roll Filter, Add	9,489.91	
For Automatic Roll Filter, Add	10,293.27	
For Hot Water Heating Coil, Aluminum Fins, Add	4,669.80	
For Electric Heating Coil, Add	7,883.21	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,883.21	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,079.86	
For Steam Heating Coil, Aluminum Fins, Add	6,276.51	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,146.63	
For Chilled Water Cooling Coil, Copper Fins, Add	9,489.91	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,686.56	
For Hot Water Heating Coil, Copper Fins, Add	6,276.51	
For Variable Air Volume, Add	2,249.39	
For Economizer, Panel, Controls And Damper(s), Add	3,139.13	
For 2 Coils, Independent Circuits, Add	2,581.09	
23 73 13 00-0025 EA 9,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	23,794.83	4,950.16
For Flat Filter Box And Throwaway Filters, Add	2,026.64	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,841.58	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,727.09	
For Manual Roll Filter, Add	9,911.61	
For Automatic Roll Filter, Add	10,748.51	
For Hot Water Heating Coil, Aluminum Fins, Add	4,890.19	
For Electric Heating Coil, Add	8,237.80	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,237.80	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,400.90	
For Steam Heating Coil, Aluminum Fins, Add	6,564.00	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,374.25	
For Chilled Water Cooling Coil, Copper Fins, Add	9,911.61	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,074.70	
For Hot Water Heating Coil, Copper Fins, Add	6,564.00	
For Variable Air Volume, Add	2,343.33	
For Economizer, Panel, Controls And Damper(s), Add	3,297.03	
For 2 Coils, Independent Circuits, Add	2,714.24	
23 73 13 00-0026 EA 10,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	24,961.06	5,285.15
For Flat Filter Box And Throwaway Filters, Add	2,118.51	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,010.45	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,977.92	
For Manual Roll Filter, Add	10,330.18	
For Automatic Roll Filter, Add	11,200.64	
For Hot Water Heating Coil, Aluminum Fins, Add	5,107.47	
For Electric Heating Coil, Add	8,589.28	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,589.28	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,718.82	
For Steam Heating Coil, Aluminum Fins, Add	6,848.37	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,600.32	
For Chilled Water Cooling Coil, Copper Fins, Add	10,330.18	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,459.73	
For Hot Water Heating Coil, Copper Fins, Add	6,848.37	
For Variable Air Volume, Add	2,437.27	
For Economizer, Panel, Controls And Damper(s), Add	3,445.60	
For 2 Coils, Independent Circuits, Add	2,844.29	
23 73 13 00-0027 EA 11,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	25,030.28	5,117.39
For Flat Filter Box And Throwaway Filters, Add	2,138.74	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,058.91	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,051.94	
For Manual Roll Filter, Add	10,488.08	
For Automatic Roll Filter, Add	11,375.31	
For Hot Water Heating Coil, Aluminum Fins, Add	5,164.71	
For Electric Heating Coil, Add	8,713.63	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,713.63	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,826.40	
For Steam Heating Coil, Aluminum Fins, Add	6,939.17	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,687.66	
For Chilled Water Cooling Coil, Copper Fins, Add	10,488.08	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,600.86	
For Hot Water Heating Coil, Copper Fins, Add	6,939.17	
For Variable Air Volume, Add	2,484.24	
For Economizer, Panel, Controls And Damper(s), Add	3,365.71	
For 2 Coils, Independent Circuits, Add	2,857.92	



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>		<b>23</b>
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73	13 00-0028	EA	12,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	26,189.28 2,213.47 4,183.66 6,234.94 10,754.96 11,658.96 5,330.94 8,946.95 8,946.95 8,042.95 7,138.95 5,829.48 10,754.96 9,850.96 7,138.95 2,531.21 3,612.76 2,980.53	5,677.60
23 73	13 00-0029	EA	13,700 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	27,560.45 2,336.08 4,420.18 6,588.28 11,378.56 12,336.62 5,630.22 9,462.45 9,462.45 8,504.39 7,546.33 6,168.31 11,378.56 10,420.51 7,546.33 2,682.56 3,079.86 3,139.27	5,905.66
23 73	13 00-0030	EA	15,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	29,012.29 2,462.73 4,662.35 6,949.68 12,010.23 13,022.34 5,937.56 9,986.01 9,986.01 8,973.90 7,961.79 6,511.17 12,010.23 10,998.12 7,961.79 2,833.91 3,154.01 3,306.07	6,134.37
23 73	13 00-0031	EA	16,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	30,538.35 2,600.54 4,929.10 7,348.32 12,716.42 13,790.05 6,274.70 10,569.18 10,569.18 9,495.56 8,421.94 6,895.02 12,716.42 11,642.80 8,421.94 3,006.14 3,213.19 3,483.28	6,370.31

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0032 EA 17,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	32,136.47	6,606.50
For Flat Filter Box And Throwaway Filters, Add	2,741.95	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,200.89	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,754.17	
For Manual Roll Filter, Add	13,429.82	
For Automatic Roll Filter, Add	14,564.95	
For Hot Water Heating Coil, Aluminum Fins, Add	6,619.04	
For Electric Heating Coil, Add	11,159.56	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,159.56	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,024.43	
For Steam Heating Coil, Aluminum Fins, Add	8,889.30	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	7,282.48	
For Chilled Water Cooling Coil, Copper Fins, Add	13,429.82	
For Direct Expansion Cooling Coil, Copper Fins, Add	12,294.69	
For Hot Water Heating Coil, Copper Fins, Add	8,889.30	
For Variable Air Volume, Add	3,178.37	
For Economizer, Panel, Controls And Damper(s), Add	3,286.77	
For 2 Coils, Independent Circuits, Add	3,667.70	
23 73 13 00-0033 EA 20,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	35,771.76	7,082.64
For Flat Filter Box And Throwaway Filters, Add	3,070.97	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,838.21	
For Combination Filter Mixing Box And Throwaway Filters, Add	9,989.08	
For Manual Roll Filter, Add	14,349.17	
For Automatic Roll Filter, Add	15,118.60	
For Hot Water Heating Coil, Aluminum Fins, Add	6,141.94	
For Electric Heating Coil, Add	6,654.89	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,271.46	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,989.08	
For Steam Heating Coil, Aluminum Fins, Add	8,706.70	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	6,918.11	
For Chilled Water Cooling Coil, Copper Fins, Add	13,836.22	
For Direct Expansion Cooling Coil, Copper Fins, Add	12,553.84	
For Hot Water Heating Coil, Copper Fins, Add	9,989.08	
For Variable Air Volume, Add	3,590.67	
For Economizer, Panel, Controls And Damper(s), Add	3,506.73	
For 2 Coils, Independent Circuits, Add	4,090.13	
23 73 13 00-0034 EA 22,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	39,648.45	7,633.16
For Flat Filter Box And Throwaway Filters, Add	3,417.65	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,506.97	
For Combination Filter Mixing Box And Throwaway Filters, Add	11,140.96	
For Manual Roll Filter, Add	16,020.71	
For Automatic Roll Filter, Add	16,881.85	
For Hot Water Heating Coil, Aluminum Fins, Add	6,835.29	
For Electric Heating Coil, Add	7,409.38	
For Chilled Water Cooling Coil, Aluminum Fins, Add	12,576.18	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	11,140.96	
For Steam Heating Coil, Aluminum Fins, Add	9,705.74	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	7,723.31	
For Chilled Water Cooling Coil, Copper Fins, Add	15,446.63	
For Direct Expansion Cooling Coil, Copper Fins, Add	14,011.40	
For Hot Water Heating Coil, Copper Fins, Add	11,140.96	
For Variable Air Volume, Add	4,018.62	
For Economizer, Panel, Controls And Damper(s), Add	3,650.20	
For 2 Coils, Independent Circuits, Add	4,538.93	
23 73 13 00-0035 EA 25,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....	43,864.03	8,178.77
For Flat Filter Box And Throwaway Filters, Add	3,801.77	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,252.76	
For Combination Filter Mixing Box And Throwaway Filters, Add	12,429.24	
For Manual Roll Filter, Add	17,898.37	
For Automatic Roll Filter, Add	18,863.51	
For Hot Water Heating Coil, Aluminum Fins, Add	7,603.54	
For Electric Heating Coil, Add	8,246.97	
For Chilled Water Cooling Coil, Aluminum Fins, Add	14,037.81	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,429.24	
For Steam Heating Coil, Aluminum Fins, Add	10,820.67	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	8,627.47	
For Chilled Water Cooling Coil, Copper Fins, Add	17,254.94	
For Direct Expansion Cooling Coil, Copper Fins, Add	15,646.38	
For Hot Water Heating Coil, Copper Fins, Add	12,429.24	
For Variable Air Volume, Add	4,503.99	
For Economizer, Panel, Controls And Damper(s), Add	3,781.22	
For 2 Coils, Independent Circuits, Add	5,029.83	





<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>		<b>23</b>
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0036 EA 27,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	53,733.96 4,744.47 9,111.59 15,662.26 22,658.69 23,893.36 9,488.94 10,312.05 17,720.04 15,662.26 13,604.49 10,917.79 21,835.58 19,777.81 15,662.26 5,761.77 3,936.24 6,196.51	8,808.32
23 73 13 00-0037 EA 30,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	59,944.48 5,323.40 10,244.18 17,625.34 25,534.35 26,930.05 10,646.81 11,577.28 19,951.52 17,625.34 15,299.16 12,301.94 24,603.88 22,277.70 17,625.34 6,513.30 3,778.14 6,924.92	9,401.59
23 73 13 00-0038 EA 32,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	65,639.22 5,841.13 11,248.59 19,359.77 28,060.95 29,596.45 11,682.26 12,705.93 21,918.94 19,359.77 16,800.60 13,518.64 27,037.28 24,478.11 19,359.77 7,165.67 3,933.37 7,587.59	10,124.13
23 73 13 00-0039 EA 35,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	71,996.70 6,414.36 12,357.54 21,272.31 30,841.70 32,530.41 12,828.72 13,954.53 24,086.83 21,272.31 18,457.78 14,857.94 29,715.89 26,901.36 21,272.31 7,880.68 4,120.92 8,325.48	11,497.20

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0040	EA		37,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... 77,452.44	77,452.44	11,661.40
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	6,912.68	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	13,325.83	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	22,945.55	
			<i>For Manual Roll Filter, Add</i>	33,281.76	
			<i>For Automatic Roll Filter, Add</i>	35,105.80	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	13,825.37	
			<i>For Electric Heating Coil, Add</i>	15,041.39	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	25,985.62	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	22,945.55	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	19,905.49	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	16,032.87	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	32,065.74	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	29,025.68	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	22,945.55	
			<i>For Variable Air Volume, Add</i>	8,512.17	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,262.68	
			<i>For 2 Coils, Independent Circuits, Add</i>	8,961.27	
23 73 13 00-0041	EA		40,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... 83,528.30	83,528.30	12,474.84
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	7,458.79	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	14,381.15	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	24,764.69	
			<i>For Manual Roll Filter, Add</i>	35,924.75	
			<i>For Automatic Roll Filter, Add</i>	37,894.18	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	14,917.57	
			<i>For Electric Heating Coil, Add</i>	16,230.52	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	28,047.06	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	24,764.69	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	21,482.32	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	17,305.90	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	34,611.81	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	31,329.43	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	24,764.69	
			<i>For Variable Air Volume, Add</i>	9,190.64	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,065.11	
			<i>For 2 Coils, Independent Circuits, Add</i>	9,665.78	
23 73 13 00-0042	EA		45,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... 90,146.34	90,146.34	13,469.35
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	8,052.50	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	15,527.73	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	26,740.56	
			<i>For Manual Roll Filter, Add</i>	38,794.19	
			<i>For Automatic Roll Filter, Add</i>	40,921.30	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	16,105.01	
			<i>For Electric Heating Coil, Add</i>	17,523.08	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	30,285.75	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	26,740.56	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	23,195.38	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	18,688.06	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	37,376.12	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	33,830.93	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	26,740.56	
			<i>For Variable Air Volume, Add</i>	9,926.52	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,235.33	
			<i>For 2 Coils, Independent Circuits, Add</i>	10,432.71	
23 73 13 00-0043	EA		47,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... 93,919.56	93,919.56	14,102.00
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	8,386.55	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	16,169.86	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	27,844.82	
			<i>For Manual Roll Filter, Add</i>	40,392.76	
			<i>For Automatic Roll Filter, Add</i>	42,607.10	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	16,773.10	
			<i>For Electric Heating Coil, Add</i>	18,249.33	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	31,535.39	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	27,844.82	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	24,154.24	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	19,458.27	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	38,916.53	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	35,225.96	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	27,844.82	
			<i>For Variable Air Volume, Add</i>	10,333.60	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,343.52	
			<i>For 2 Coils, Independent Circuits, Add</i>	10,868.18	



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>		<b>23</b>
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73	13 00-0044	EA	50,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan ..... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	97,473.93 8,702.20 16,777.28 28,889.91 41,906.81 44,203.92 17,404.40 18,935.80 32,718.41 28,889.91 25,061.40 20,187.71 40,375.41 36,546.91 28,889.91 10,719.81 4,442.99 11,278.79	14,644.38
23 73	13 00-0045	EA	55,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	105,072.02 9,389.65 18,108.77 31,187.45 45,250.02 47,731.65 18,779.30 20,433.72 35,323.50 31,187.45 27,051.40 21,797.80 43,595.60 39,459.55 31,187.45 11,580.94 4,623.88 12,161.62	15,638.75
23 73	13 00-0046	EA	60,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	114,874.18 10,291.69 19,865.93 34,227.31 49,690.43 52,419.22 20,583.37 22,402.56 38,775.28 34,227.31 29,679.33 23,935.62 47,871.24 43,323.26 34,227.31 12,734.34 4,291.46 13,306.61	16,723.52
23 73	13 00-0047	EA	65,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .... For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	125,883.34 11,296.94 21,819.05 37,602.21 54,611.64 57,613.31 22,593.88 24,594.99 42,604.98 37,602.21 32,599.43 26,305.27 52,610.53 47,607.76 37,602.21 14,007.77 4,482.78 14,589.44	18,079.48

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 73 Indoor Central-Station Air-Handling Units**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0048	EA		70,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan.....	138,157.10	19,616.24
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	12,412.03	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	23,981.84	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	41,336.57	
			<i>For Manual Roll Filter, Add</i>	60,050.75	
			<i>For Automatic Roll Filter, Add</i>	63,353.25	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	24,824.05	
			<i>For Electric Heating Coil, Add</i>	27,025.72	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	46,840.74	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	41,336.57	
			<i>For Steam Heating Coil, Aluminum Fins, Add</i>	35,832.39	
			<i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i>	28,924.54	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	57,849.08	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	52,344.91	
			<i>For Hot Water Heating Coil, Copper Fins, Add</i>	41,336.57	
			<i>For Variable Air Volume, Add</i>	15,411.68	
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	4,707.37	
			<i>For 2 Coils, Independent Circuits, Add</i>	16,017.38	
23 73 13 00-0049	EA		<b>Multi-Zone Units</b> <small>(23 73 13)</small>		
			Note: Horizontal/vertical blow-thru fan, motor and cabinet.		
23 73 13 00-0050	EA		1,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	8,288.25	1,626.89
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	2,266.58	
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	712.64	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	1,355.57	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	1,723.51	
			<i>For Manual Roll Filter, Add</i>	3,512.88	
			<i>For Automatic Roll Filter, Add</i>	3,512.88	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	828.83	
			<i>For Electric Heating Coil, Add</i>	948.12	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	2,916.42	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	2,916.42	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	3,512.88	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	3,512.88	
			<i>For 2 Coils, Independent Circuits, Add</i>	948.12	
23 73 13 00-0051	EA		1,200 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	10,330.24	2,038.20
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	2,678.27	
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	887.43	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	1,687.51	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	2,145.79	
			<i>For Manual Roll Filter, Add</i>	4,371.31	
			<i>For Automatic Roll Filter, Add</i>	4,371.31	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	1,033.02	
			<i>For Electric Heating Coil, Add</i>	1,181.39	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	3,629.47	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	3,629.47	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	4,371.31	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	4,371.31	
			<i>For 2 Coils, Independent Circuits, Add</i>	1,181.39	
23 73 13 00-0052	EA		1,600 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	12,716.57	2,169.28
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	2,809.10	
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	1,116.72	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	2,140.48	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	2,714.33	
			<i>For Manual Roll Filter, Add</i>	5,599.69	
			<i>For Automatic Roll Filter, Add</i>	5,599.69	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	1,271.66	
			<i>For Electric Heating Coil, Add</i>	1,464.01	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	4,637.90	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	4,637.90	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	5,599.69	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	5,599.69	
			<i>For 2 Coils, Independent Circuits, Add</i>	1,464.01	
23 73 13 00-0053	EA		2,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	13,233.72	2,322.96
			<i>For Economizer, Panel, Controls And Damper(s), Add</i>	2,962.35	
			<i>For Flat Filter Box And Throwaway Filters, Add</i>	1,157.49	
			<i>For Medium Capacity Filter Box And Throwaway Filters, Add</i>	2,215.45	
			<i>For Combination Filter Mixing Box And Throwaway Filters, Add</i>	2,810.78	
			<i>For Manual Roll Filter, Add</i>	5,785.61	
			<i>For Automatic Roll Filter, Add</i>	5,785.61	
			<i>For Hot Water Heating Coil, Aluminum Fins, Add</i>	1,323.37	
			<i>For Electric Heating Coil, Add</i>	1,521.69	
			<i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i>	4,794.00	
			<i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i>	4,794.00	
			<i>For Chilled Water Cooling Coil, Copper Fins, Add</i>	5,785.61	
			<i>For Direct Expansion Cooling Coil, Copper Fins, Add</i>	5,785.61	
			<i>For 2 Coils, Independent Circuits, Add</i>	1,521.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0054 EA 2,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	15,449.39	2,490.19
For Economizer, Panel, Controls And Damper(s), Add	3,130.29	
For Flat Filter Box And Throwaway Filters, Add	1,367.06	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,627.40	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,328.72	
For Manual Roll Filter, Add	6,896.27	
For Automatic Roll Filter, Add	6,896.27	
For Hot Water Heating Coil, Aluminum Fins, Add	1,544.94	
For Electric Heating Coil, Add	1,782.78	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,707.08	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,707.08	
For Chilled Water Cooling Coil, Copper Fins, Add	6,896.27	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,896.27	
For 2 Coils, Independent Circuits, Add	1,782.78	
23 73 13 00-0055 EA 3,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	16,297.72	2,666.73
For Economizer, Panel, Controls And Damper(s), Add	3,306.59	
For Flat Filter Box And Throwaway Filters, Add	1,439.30	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,764.32	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,503.02	
For Manual Roll Filter, Add	7,249.51	
For Automatic Roll Filter, Add	7,249.51	
For Hot Water Heating Coil, Aluminum Fins, Add	1,629.77	
For Electric Heating Coil, Add	1,879.54	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,000.68	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,000.68	
For Chilled Water Cooling Coil, Copper Fins, Add	7,249.51	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,249.51	
For 2 Coils, Independent Circuits, Add	1,879.54	
23 73 13 00-0056 EA 3,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	17,189.40	2,847.39
For Economizer, Panel, Controls And Damper(s), Add	3,487.16	
For Flat Filter Box And Throwaway Filters, Add	1,515.57	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,909.12	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,687.24	
For Manual Roll Filter, Add	7,623.85	
For Automatic Roll Filter, Add	7,623.85	
For Hot Water Heating Coil, Aluminum Fins, Add	1,718.94	
For Electric Heating Coil, Add	1,981.38	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,311.65	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,311.65	
For Chilled Water Cooling Coil, Copper Fins, Add	7,623.85	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,623.85	
For 2 Coils, Independent Circuits, Add	1,981.38	
23 73 13 00-0057 EA 4,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	19,155.02	3,055.44
For Economizer, Panel, Controls And Damper(s), Add	3,145.50	
For Flat Filter Box And Throwaway Filters, Add	1,697.73	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,264.80	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,135.44	
For Manual Roll Filter, Add	8,575.31	
For Automatic Roll Filter, Add	8,575.31	
For Hot Water Heating Coil, Aluminum Fins, Add	1,915.50	
For Electric Heating Coil, Add	2,211.49	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,095.35	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,095.35	
For Chilled Water Cooling Coil, Copper Fins, Add	8,575.31	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,575.31	
For 2 Coils, Independent Circuits, Add	2,211.49	
23 73 13 00-0058 EA 4,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	20,928.15	3,272.13
For Economizer, Panel, Controls And Damper(s), Add	3,321.10	
For Flat Filter Box And Throwaway Filters, Add	1,859.08	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,577.92	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,530.83	
For Manual Roll Filter, Add	9,406.86	
For Automatic Roll Filter, Add	9,406.86	
For Hot Water Heating Coil, Aluminum Fins, Add	2,092.82	
For Electric Heating Coil, Add	2,417.88	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,781.52	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,781.52	
For Chilled Water Cooling Coil, Copper Fins, Add	9,406.86	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,406.86	
For 2 Coils, Independent Circuits, Add	2,417.88	
23 73 13 00-0059 EA 5,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	22,129.37	3,494.76
For Economizer, Panel, Controls And Damper(s), Add	3,489.69	
For Flat Filter Box And Throwaway Filters, Add	1,963.87	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,778.31	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,785.15	
For Manual Roll Filter, Add	9,929.59	
For Automatic Roll Filter, Add	9,929.59	
For Hot Water Heating Coil, Aluminum Fins, Add	2,212.94	
For Electric Heating Coil, Add	2,555.90	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,214.78	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,214.78	
For Chilled Water Cooling Coil, Copper Fins, Add	9,929.59	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,929.59	
For 2 Coils, Independent Circuits, Add	2,555.90	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 73 Indoor Central-Station Air-Handling Units**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0060 EA 5,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	24,385.65	3,733.67
For Economizer, Panel, Controls And Damper(s), Add	3,684.98	
For Flat Filter Box And Throwaway Filters, Add	2,171.75	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,183.41	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,295.96	
For Manual Roll Filter, Add	11,010.76	
For Automatic Roll Filter, Add	11,010.76	
For Hot Water Heating Coil, Aluminum Fins, Add	2,438.57	
For Electric Heating Coil, Add	2,819.55	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,105.83	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,105.83	
For Chilled Water Cooling Coil, Copper Fins, Add	11,010.76	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,010.76	
For 2 Coils, Independent Circuits, Add	2,819.55	
23 73 13 00-0061 EA 6,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	25,950.04	3,995.82
For Economizer, Panel, Controls And Damper(s), Add	3,889.30	
For Flat Filter Box And Throwaway Filters, Add	2,309.61	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,447.99	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,631.34	
For Manual Roll Filter, Add	11,704.01	
For Automatic Roll Filter, Add	11,704.01	
For Hot Water Heating Coil, Aluminum Fins, Add	2,595.00	
For Electric Heating Coil, Add	2,999.85	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,679.78	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,679.78	
For Chilled Water Cooling Coil, Copper Fins, Add	11,704.01	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,704.01	
For 2 Coils, Independent Circuits, Add	2,999.85	
23 73 13 00-0062 EA 6,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	28,448.99	4,339.07
For Economizer, Panel, Controls And Damper(s), Add	4,156.55	
For Flat Filter Box And Throwaway Filters, Add	2,535.21	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,884.61	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,183.19	
For Manual Roll Filter, Add	12,859.77	
For Automatic Roll Filter, Add	12,859.77	
For Hot Water Heating Coil, Aluminum Fins, Add	2,844.90	
For Electric Heating Coil, Add	3,290.00	
For Chilled Water Cooling Coil, Aluminum Fins, Add	10,634.24	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,634.24	
For Chilled Water Cooling Coil, Copper Fins, Add	12,859.77	
For Direct Expansion Cooling Coil, Copper Fins, Add	12,859.77	
For 2 Coils, Independent Circuits, Add	3,290.00	
23 73 13 00-0063 EA 7,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	30,569.38	4,673.67
For Economizer, Panel, Controls And Damper(s), Add	4,420.62	
For Flat Filter Box And Throwaway Filters, Add	2,723.25	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,246.27	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,641.27	
For Manual Roll Filter, Add	13,809.92	
For Automatic Roll Filter, Add	13,809.92	
For Hot Water Heating Coil, Aluminum Fins, Add	3,056.94	
For Electric Heating Coil, Add	3,534.85	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,420.37	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	11,420.37	
For Chilled Water Cooling Coil, Copper Fins, Add	13,809.92	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,809.92	
For 2 Coils, Independent Circuits, Add	3,534.85	
23 73 13 00-0064 EA 7,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	32,106.46	5,053.21
For Economizer, Panel, Controls And Damper(s), Add	3,821.77	
For Flat Filter Box And Throwaway Filters, Add	2,850.43	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,484.72	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,945.95	
For Manual Roll Filter, Add	14,416.56	
For Automatic Roll Filter, Add	14,416.56	
For Hot Water Heating Coil, Aluminum Fins, Add	3,210.65	
For Electric Heating Coil, Add	3,708.69	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,926.36	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	11,926.36	
For Chilled Water Cooling Coil, Copper Fins, Add	14,416.56	
For Direct Expansion Cooling Coil, Copper Fins, Add	14,416.56	
For 2 Coils, Independent Circuits, Add	3,708.69	
23 73 13 00-0065 EA 8,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	35,600.96	5,450.71
For Economizer, Panel, Controls And Damper(s), Add	4,056.48	
For Flat Filter Box And Throwaway Filters, Add	3,170.54	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,107.34	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,731.56	
For Manual Roll Filter, Add	16,074.49	
For Automatic Roll Filter, Add	16,074.49	
For Hot Water Heating Coil, Aluminum Fins, Add	3,560.10	
For Electric Heating Coil, Add	4,116.29	
For Chilled Water Cooling Coil, Aluminum Fins, Add	13,293.51	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,293.51	
For Chilled Water Cooling Coil, Copper Fins, Add	16,074.49	
For Direct Expansion Cooling Coil, Copper Fins, Add	16,074.49	
For 2 Coils, Independent Circuits, Add	4,116.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0066 EA 8,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	37,513.81	5,875.57
For Economizer, Panel, Controls And Damper(s), Add	4,299.72	
For Flat Filter Box And Throwaway Filters, Add	3,331.42	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,410.85	
For Combination Filter Mixing Box And Throwaway Filters, Add	8,118.56	
For Manual Roll Filter, Add	16,852.91	
For Automatic Roll Filter, Add	16,852.91	
For Hot Water Heating Coil, Aluminum Fins, Add	3,751.38	
For Electric Heating Coil, Add	4,333.67	
For Chilled Water Cooling Coil, Aluminum Fins, Add	13,941.46	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,941.46	
For Chilled Water Cooling Coil, Copper Fins, Add	16,852.91	
For Direct Expansion Cooling Coil, Copper Fins, Add	16,852.91	
For 2 Coils, Independent Circuits, Add	4,333.67	
23 73 13 00-0067 EA 9,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	39,630.77	6,363.98
For Economizer, Panel, Controls And Damper(s), Add	4,564.96	
For Flat Filter Box And Throwaway Filters, Add	3,509.96	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,748.04	
For Combination Filter Mixing Box And Throwaway Filters, Add	8,548.33	
For Manual Roll Filter, Add	17,718.84	
For Automatic Roll Filter, Add	17,718.84	
For Hot Water Heating Coil, Aluminum Fins, Add	3,963.08	
For Electric Heating Coil, Add	4,574.44	
For Chilled Water Cooling Coil, Aluminum Fins, Add	14,662.01	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	14,662.01	
For Chilled Water Cooling Coil, Copper Fins, Add	17,718.84	
For Direct Expansion Cooling Coil, Copper Fins, Add	17,718.84	
For 2 Coils, Independent Circuits, Add	4,574.44	
23 73 13 00-0068 EA 10,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	41,917.26	6,869.82
For Economizer, Panel, Controls And Damper(s), Add	4,126.14	
For Flat Filter Box And Throwaway Filters, Add	3,700.70	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,106.79	
For Combination Filter Mixing Box And Throwaway Filters, Add	9,006.24	
For Manual Roll Filter, Add	18,635.28	
For Automatic Roll Filter, Add	18,635.28	
For Hot Water Heating Coil, Aluminum Fins, Add	4,191.73	
For Electric Heating Coil, Add	4,833.66	
For Chilled Water Cooling Coil, Aluminum Fins, Add	15,425.60	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	15,425.60	
For Chilled Water Cooling Coil, Copper Fins, Add	18,635.28	
For Direct Expansion Cooling Coil, Copper Fins, Add	18,635.28	
For 2 Coils, Independent Circuits, Add	4,833.66	
23 73 13 00-0069 EA 11,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	43,111.39	7,132.36
For Economizer, Panel, Controls And Damper(s), Add	4,243.93	
For Flat Filter Box And Throwaway Filters, Add	3,800.48	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,294.57	
For Combination Filter Mixing Box And Throwaway Filters, Add	9,245.88	
For Manual Roll Filter, Add	19,115.37	
For Automatic Roll Filter, Add	19,115.37	
For Hot Water Heating Coil, Aluminum Fins, Add	4,311.14	
For Electric Heating Coil, Add	4,969.10	
For Chilled Water Cooling Coil, Aluminum Fins, Add	15,825.54	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	15,825.54	
For Chilled Water Cooling Coil, Copper Fins, Add	19,115.37	
For Direct Expansion Cooling Coil, Copper Fins, Add	19,115.37	
For 2 Coils, Independent Circuits, Add	4,969.10	
23 73 13 00-0070 EA 12,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	44,246.53	7,386.89
For Economizer, Panel, Controls And Damper(s), Add	4,344.03	
For Flat Filter Box And Throwaway Filters, Add	3,897.32	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,478.23	
For Combination Filter Mixing Box And Throwaway Filters, Add	9,479.62	
For Manual Roll Filter, Add	19,589.55	
For Automatic Roll Filter, Add	19,589.55	
For Hot Water Heating Coil, Aluminum Fins, Add	4,424.65	
For Electric Heating Coil, Add	5,098.65	
For Chilled Water Cooling Coil, Aluminum Fins, Add	16,219.57	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	16,219.57	
For Chilled Water Cooling Coil, Copper Fins, Add	19,589.55	
For Direct Expansion Cooling Coil, Copper Fins, Add	19,589.55	
For 2 Coils, Independent Circuits, Add	5,098.65	
23 73 13 00-0071 EA 13,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	49,924.94	7,683.78
For Economizer, Panel, Controls And Damper(s), Add	3,601.24	
For Flat Filter Box And Throwaway Filters, Add	4,442.19	
For Medium Capacity Filter Box And Throwaway Filters, Add	8,554.18	
For Combination Filter Mixing Box And Throwaway Filters, Add	10,830.31	
For Manual Roll Filter, Add	22,505.94	
For Automatic Roll Filter, Add	22,505.94	
For Hot Water Heating Coil, Aluminum Fins, Add	4,992.49	
For Electric Heating Coil, Add	5,770.87	
For Chilled Water Cooling Coil, Aluminum Fins, Add	18,614.06	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	18,614.06	
For Chilled Water Cooling Coil, Copper Fins, Add	22,505.94	
For Direct Expansion Cooling Coil, Copper Fins, Add	22,505.94	
For 2 Coils, Independent Circuits, Add	5,770.87	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 73 Indoor Central-Station Air-Handling Units**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0072 EA 15,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	55,554.76	7,988.16
For Economizer, Panel, Controls And Damper(s), Add	3,732.98	
For Flat Filter Box And Throwaway Filters, Add	4,984.63	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,626.74	
For Combination Filter Mixing Box And Throwaway Filters, Add	12,176.14	
For Manual Roll Filter, Add	25,417.46	
For Automatic Roll Filter, Add	25,417.46	
For Hot Water Heating Coil, Aluminum Fins, Add	5,555.48	
For Electric Heating Coil, Add	6,438.23	
For Chilled Water Cooling Coil, Aluminum Fins, Add	21,003.69	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	21,003.69	
For Chilled Water Cooling Coil, Copper Fins, Add	25,417.46	
For Direct Expansion Cooling Coil, Copper Fins, Add	25,417.46	
For 2 Coils, Independent Circuits, Add	6,438.23	
23 73 13 00-0073 EA 16,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	63,745.88	8,289.44
For Economizer, Panel, Controls And Damper(s), Add	3,806.22	
For Flat Filter Box And Throwaway Filters, Add	5,782.81	
For Medium Capacity Filter Box And Throwaway Filters, Add	11,210.55	
For Combination Filter Mixing Box And Throwaway Filters, Add	14,161.14	
For Manual Roll Filter, Add	29,734.23	
For Automatic Roll Filter, Add	29,734.23	
For Hot Water Heating Coil, Aluminum Fins, Add	6,374.59	
For Electric Heating Coil, Add	7,412.79	
For Chilled Water Cooling Coil, Aluminum Fins, Add	24,543.20	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	24,543.20	
For Chilled Water Cooling Coil, Copper Fins, Add	29,734.23	
For Direct Expansion Cooling Coil, Copper Fins, Add	29,734.23	
For 2 Coils, Independent Circuits, Add	7,412.79	
23 73 13 00-0074 EA 17,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	71,942.92	8,587.75
For Economizer, Panel, Controls And Damper(s), Add	3,880.51	
For Flat Filter Box And Throwaway Filters, Add	6,581.29	
For Medium Capacity Filter Box And Throwaway Filters, Add	12,794.78	
For Combination Filter Mixing Box And Throwaway Filters, Add	16,146.72	
For Manual Roll Filter, Add	34,051.59	
For Automatic Roll Filter, Add	34,051.59	
For Hot Water Heating Coil, Aluminum Fins, Add	7,194.29	
For Electric Heating Coil, Add	8,387.95	
For Chilled Water Cooling Coil, Aluminum Fins, Add	28,083.30	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	28,083.30	
For Chilled Water Cooling Coil, Copper Fins, Add	34,051.59	
For Direct Expansion Cooling Coil, Copper Fins, Add	34,051.59	
For 2 Coils, Independent Circuits, Add	8,387.95	
23 73 13 00-0075 EA 20,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	80,734.91	9,310.93
For Economizer, Panel, Controls And Damper(s), Add	4,062.17	
For Flat Filter Box And Throwaway Filters, Add	7,408.59	
For Medium Capacity Filter Box And Throwaway Filters, Add	11,046.39	
For Combination Filter Mixing Box And Throwaway Filters, Add	18,189.01	
For Manual Roll Filter, Add	28,304.53	
For Automatic Roll Filter, Add	35,048.22	
For Hot Water Heating Coil, Aluminum Fins, Add	8,073.49	
For Electric Heating Coil, Add	9,422.23	
For Chilled Water Cooling Coil, Aluminum Fins, Add	28,304.53	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	28,304.53	
For Steam Heating Coil, Aluminum Fins, Add	14,817.17	
For Chilled Water Cooling Coil, Copper Fins, Add	35,048.22	
For Direct Expansion Cooling Coil, Copper Fins, Add	35,048.22	
For 2 Coils, Independent Circuits, Add	9,422.23	
23 73 13 00-0076 EA 22,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	87,077.37	10,124.51
For Economizer, Panel, Controls And Damper(s), Add	3,922.64	
For Flat Filter Box And Throwaway Filters, Add	7,988.52	
For Medium Capacity Filter Box And Throwaway Filters, Add	11,910.86	
For Combination Filter Mixing Box And Throwaway Filters, Add	19,611.70	
For Manual Roll Filter, Add	30,515.66	
For Automatic Roll Filter, Add	37,784.97	
For Hot Water Heating Coil, Aluminum Fins, Add	8,707.74	
For Electric Heating Coil, Add	10,161.60	
For Chilled Water Cooling Coil, Aluminum Fins, Add	30,515.66	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	30,515.66	
For Steam Heating Coil, Aluminum Fins, Add	15,977.05	
For Chilled Water Cooling Coil, Copper Fins, Add	37,784.97	
For Direct Expansion Cooling Coil, Copper Fins, Add	37,784.97	
For 2 Coils, Independent Circuits, Add	10,161.60	
23 73 13 00-0077 EA 25,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	103,748.08	10,937.69
For Economizer, Panel, Controls And Damper(s), Add	4,108.26	
For Flat Filter Box And Throwaway Filters, Add	9,593.72	
For Medium Capacity Filter Box And Throwaway Filters, Add	14,312.48	
For Combination Filter Mixing Box And Throwaway Filters, Add	23,593.77	
For Manual Roll Filter, Add	36,812.72	
For Automatic Roll Filter, Add	45,625.36	
For Hot Water Heating Coil, Aluminum Fins, Add	10,374.81	
For Electric Heating Coil, Add	12,137.34	
For Chilled Water Cooling Coil, Aluminum Fins, Add	36,812.72	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	36,812.72	
For Steam Heating Coil, Aluminum Fins, Add	19,187.45	
For Chilled Water Cooling Coil, Copper Fins, Add	45,625.36	
For Direct Expansion Cooling Coil, Copper Fins, Add	45,625.36	
For 2 Coils, Independent Circuits, Add	12,137.34	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0078 EA 27,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	117,209.66	11,842.06
For Economizer, Panel, Controls And Damper(s), Add	4,298.98	
For Flat Filter Box And Throwaway Filters, Add	10,876.31	
For Medium Capacity Filter Box And Throwaway Filters, Add	16,229.99	
For Combination Filter Mixing Box And Throwaway Filters, Add	26,768.43	
For Manual Roll Filter, Add	41,815.90	
For Automatic Roll Filter, Add	51,847.55	
For Hot Water Heating Coil, Aluminum Fins, Add	11,720.97	
For Electric Heating Coil, Add	13,727.30	
For Chilled Water Cooling Coil, Aluminum Fins, Add	41,815.90	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	41,815.90	
For Steam Heating Coil, Aluminum Fins, Add	21,752.61	
For Chilled Water Cooling Coil, Copper Fins, Add	51,847.55	
For Direct Expansion Cooling Coil, Copper Fins, Add	51,847.55	
For 2 Coils, Independent Circuits, Add	13,727.30	
23 73 13 00-0079 EA 30,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	127,033.10	12,746.42
For Economizer, Panel, Controls And Damper(s), Add	4,497.57	
For Flat Filter Box And Throwaway Filters, Add	11,792.45	
For Medium Capacity Filter Box And Throwaway Filters, Add	17,597.59	
For Combination Filter Mixing Box And Throwaway Filters, Add	29,025.70	
For Manual Roll Filter, Add	45,348.10	
For Automatic Roll Filter, Add	56,229.69	
For Hot Water Heating Coil, Aluminum Fins, Add	12,703.31	
For Electric Heating Coil, Add	14,879.63	
For Chilled Water Cooling Coil, Aluminum Fins, Add	45,348.10	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	45,348.10	
For Steam Heating Coil, Aluminum Fins, Add	23,584.91	
For Chilled Water Cooling Coil, Copper Fins, Add	56,229.69	
For Direct Expansion Cooling Coil, Copper Fins, Add	56,229.69	
For 2 Coils, Independent Circuits, Add	14,879.63	
23 73 13 00-0080 EA 32,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	142,069.01	14,915.19
For Economizer, Panel, Controls And Damper(s), Add	4,490.83	
For Flat Filter Box And Throwaway Filters, Add	13,142.57	
For Medium Capacity Filter Box And Throwaway Filters, Add	19,607.42	
For Combination Filter Mixing Box And Throwaway Filters, Add	32,324.25	
For Manual Roll Filter, Add	50,441.61	
For Automatic Roll Filter, Add	62,519.84	
For Hot Water Heating Coil, Aluminum Fins, Add	14,206.90	
For Electric Heating Coil, Add	16,622.55	
For Chilled Water Cooling Coil, Aluminum Fins, Add	50,441.61	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	50,441.61	
For Steam Heating Coil, Aluminum Fins, Add	26,285.14	
For Chilled Water Cooling Coil, Copper Fins, Add	62,519.84	
For Direct Expansion Cooling Coil, Copper Fins, Add	62,519.84	
For 2 Coils, Independent Circuits, Add	16,622.55	
23 73 13 00-0081 EA 35,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	142,865.14	15,457.95
For Economizer, Panel, Controls And Damper(s), Add	4,590.35	
For Flat Filter Box And Throwaway Filters, Add	13,182.37	
For Medium Capacity Filter Box And Throwaway Filters, Add	19,663.15	
For Combination Filter Mixing Box And Throwaway Filters, Add	32,403.87	
For Manual Roll Filter, Add	50,521.22	
For Automatic Roll Filter, Add	62,599.45	
For Hot Water Heating Coil, Aluminum Fins, Add	14,286.51	
For Electric Heating Coil, Add	16,702.16	
For Chilled Water Cooling Coil, Aluminum Fins, Add	50,521.22	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	50,521.22	
For Steam Heating Coil, Aluminum Fins, Add	26,364.75	
For Chilled Water Cooling Coil, Copper Fins, Add	62,599.45	
For Direct Expansion Cooling Coil, Copper Fins, Add	62,599.45	
For 2 Coils, Independent Circuits, Add	16,702.16	
23 73 13 00-0082 EA 37,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	149,402.18	15,999.82
For Economizer, Panel, Controls And Damper(s), Add	4,689.87	
For Flat Filter Box And Throwaway Filters, Add	13,796.27	
For Medium Capacity Filter Box And Throwaway Filters, Add	20,580.01	
For Combination Filter Mixing Box And Throwaway Filters, Add	33,918.70	
For Manual Roll Filter, Add	52,897.19	
For Automatic Roll Filter, Add	65,549.51	
For Hot Water Heating Coil, Aluminum Fins, Add	14,940.22	
For Electric Heating Coil, Add	17,470.68	
For Chilled Water Cooling Coil, Aluminum Fins, Add	52,897.19	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	52,897.19	
For Steam Heating Coil, Aluminum Fins, Add	27,592.54	
For Chilled Water Cooling Coil, Copper Fins, Add	65,549.51	
For Direct Expansion Cooling Coil, Copper Fins, Add	65,549.51	
For 2 Coils, Independent Circuits, Add	17,470.68	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 73 Indoor Central-Station Air-Handling Units**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0083 EA 40,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	156,374.11	17,175.51
For Economizer, Panel, Controls And Damper(s), Add	4,895.01	
For Flat Filter Box And Throwaway Filters, Add	14,411.41	
For Medium Capacity Filter Box And Throwaway Filters, Add	21,494.51	
For Combination Filter Mixing Box And Throwaway Filters, Add	35,415.52	
For Manual Roll Filter, Add	55,193.63	
For Automatic Roll Filter, Add	68,379.04	
For Hot Water Heating Coil, Aluminum Fins, Add	15,637.41	
For Electric Heating Coil, Add	18,274.49	
For Chilled Water Cooling Coil, Aluminum Fins, Add	55,193.63	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	55,193.63	
For Steam Heating Coil, Aluminum Fins, Add	28,822.82	
For Chilled Water Cooling Coil, Copper Fins, Add	68,379.04	
For Direct Expansion Cooling Coil, Copper Fins, Add	68,379.04	
For 2 Coils, Independent Circuits, Add	18,274.49	
23 73 13 00-0084 EA 45,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	168,452.94	18,079.48
For Economizer, Panel, Controls And Damper(s), Add	5,044.19	
For Flat Filter Box And Throwaway Filters, Add	15,559.62	
For Medium Capacity Filter Box And Throwaway Filters, Add	23,210.86	
For Combination Filter Mixing Box And Throwaway Filters, Add	38,256.20	
For Manual Roll Filter, Add	59,667.11	
For Automatic Roll Filter, Add	73,941.05	
For Hot Water Heating Coil, Aluminum Fins, Add	16,845.29	
For Electric Heating Coil, Add	19,700.08	
For Chilled Water Cooling Coil, Aluminum Fins, Add	59,667.11	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	59,667.11	
For Steam Heating Coil, Aluminum Fins, Add	31,119.23	
For Chilled Water Cooling Coil, Copper Fins, Add	73,941.05	
For Direct Expansion Cooling Coil, Copper Fins, Add	73,941.05	
For 2 Coils, Independent Circuits, Add	19,700.08	
23 73 13 00-0085 EA 50,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	181,056.80	19,073.86
For Economizer, Panel, Controls And Damper(s), Add	4,628.30	
For Flat Filter Box And Throwaway Filters, Add	16,741.53	
For Medium Capacity Filter Box And Throwaway Filters, Add	24,975.88	
For Combination Filter Mixing Box And Throwaway Filters, Add	41,171.75	
For Manual Roll Filter, Add	64,237.83	
For Automatic Roll Filter, Add	79,615.21	
For Hot Water Heating Coil, Aluminum Fins, Add	18,105.68	
For Electric Heating Coil, Add	21,181.16	
For Chilled Water Cooling Coil, Aluminum Fins, Add	64,237.83	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	64,237.83	
For Steam Heating Coil, Aluminum Fins, Add	33,483.06	
For Chilled Water Cooling Coil, Copper Fins, Add	79,615.21	
For Direct Expansion Cooling Coil, Copper Fins, Add	79,615.21	
For 2 Coils, Independent Circuits, Add	21,181.16	
23 73 13 00-0086 EA 55,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	194,987.52	20,249.02
For Economizer, Panel, Controls And Damper(s), Add	4,791.18	
For Flat Filter Box And Throwaway Filters, Add	18,053.16	
For Medium Capacity Filter Box And Throwaway Filters, Add	26,935.18	
For Combination Filter Mixing Box And Throwaway Filters, Add	44,410.11	
For Manual Roll Filter, Add	69,321.47	
For Automatic Roll Filter, Add	85,929.04	
For Hot Water Heating Coil, Aluminum Fins, Add	19,498.75	
For Electric Heating Coil, Add	22,820.27	
For Chilled Water Cooling Coil, Aluminum Fins, Add	69,321.47	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	69,321.47	
For Steam Heating Coil, Aluminum Fins, Add	36,106.33	
For Chilled Water Cooling Coil, Copper Fins, Add	85,929.04	
For Direct Expansion Cooling Coil, Copper Fins, Add	85,929.04	
For 2 Coils, Independent Circuits, Add	22,820.27	
23 73 13 00-0087 EA 60,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan .....	209,033.47	20,791.40
For Economizer, Panel, Controls And Damper(s), Add	4,864.93	
For Flat Filter Box And Throwaway Filters, Add	19,420.88	
For Medium Capacity Filter Box And Throwaway Filters, Add	28,983.08	
For Combination Filter Mixing Box And Throwaway Filters, Add	47,810.97	
For Manual Roll Filter, Add	74,718.60	
For Automatic Roll Filter, Add	92,657.01	
For Hot Water Heating Coil, Aluminum Fins, Add	20,903.35	
For Electric Heating Coil, Add	24,491.03	
For Chilled Water Cooling Coil, Aluminum Fins, Add	74,718.60	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	74,718.60	
For Steam Heating Coil, Aluminum Fins, Add	38,841.76	
For Chilled Water Cooling Coil, Copper Fins, Add	92,657.01	
For Direct Expansion Cooling Coil, Copper Fins, Add	92,657.01	
For 2 Coils, Independent Circuits, Add	24,491.03	
<b>23 73 13 00-0088 Return/Supply Air Fan <small>(23 73 13)</small></b>		
Note: Includes vibration mounts.		
23 73 13 00-0089 EA 300 CFM Return Air Fan .....	3,513.19	723.05
23 73 13 00-0090 EA 500 CFM Return Air Fan .....	4,544.12	867.68
23 73 13 00-0091 EA 750 CFM Return Air Fan .....	4,746.07	903.84
23 73 13 00-0092 EA 1,000 CFM Return Air Fan .....	5,405.25	958.08
23 73 13 00-0093 EA 1,250 CFM Return Air Fan .....	5,572.44	1,003.28
23 73 13 00-0094 EA 1,500 CFM Return Air Fan .....	5,705.27	1,048.48
23 73 13 00-0095 EA 1,750 CFM Return Air Fan .....	5,988.17	1,102.72
23 73 13 00-0096 EA 2,000 CFM Return Air Fan .....	6,647.33	1,156.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0097 EA 2,250 CFM Return Air Fan.....	6,964.31	1,211.19
23 73 13 00-0098 EA 2,500 CFM Return Air Fan.....	7,144.47	1,265.44
23 73 13 00-0099 EA 3,000 CFM Return Air Fan.....	7,577.26	1,401.03
23 73 13 00-0100 EA 3,500 CFM Return Air Fan.....	7,783.47	1,473.35
23 73 13 00-0101 EA 4,000 CFM Return Air Fan.....	7,976.44	1,536.62
23 73 13 00-0102 EA 4,500 CFM Return Air Fan.....	8,216.84	1,609.08
23 73 13 00-0103 EA 5,000 CFM Return Air Fan.....	8,435.54	1,690.43
23 73 13 00-0104 EA 5,500 CFM Return Air Fan.....	8,856.25	1,889.30
23 73 13 00-0105 EA 6,000 CFM Return Air Fan.....	10,078.24	2,241.86
23 73 13 00-0106 EA 6,500 CFM Return Air Fan.....	10,335.95	2,278.01
23 73 13 00-0107 EA 7,000 CFM Return Air Fan.....	10,450.93	2,287.06
23 73 13 00-0108 EA 8,000 CFM Return Air Fan.....	10,982.33	2,323.21
23 73 13 00-0109 EA 9,000 CFM Return Air Fan.....	11,222.08	2,350.33
23 73 13 00-0110 EA 10,000 CFM Return Air Fan.....	11,800.40	2,441.11
23 73 13 00-0111 EA 12,500 CFM Return Air Fan.....	12,546.89	2,485.80
23 73 13 00-0112 EA 15,000 CFM Return Air Fan.....	14,120.77	2,556.44
23 73 13 00-0113 EA 17,500 CFM Return Air Fan.....	15,377.20	2,693.71
23 73 13 00-0114 EA 20,000 CFM Return Air Fan.....	18,213.04	2,810.97
23 73 13 00-0115 EA 22,500 CFM Return Air Fan.....	19,080.41	2,908.99
23 73 13 00-0116 EA 25,000 CFM Return Air Fan.....	19,936.28	2,992.15
23 73 13 00-0117 EA 27,500 CFM Return Air Fan.....	21,154.23	3,290.47
23 73 13 00-0118 EA 30,000 CFM Return Air Fan.....	22,608.61	3,471.00
23 73 13 00-0119 EA 35,000 CFM Return Air Fan.....	25,450.84	3,615.51
23 73 13 00-0120 EA 40,000 CFM Return Air Fan.....	29,936.07	3,977.09
23 73 13 00-0121 EA 45,000 CFM Return Air Fan.....	36,765.14	4,519.49
23 73 13 00-0122 EA 50,000 CFM Return Air Fan.....	44,593.47	4,682.59
23 73 13 00-0123 EA 55,000 CFM Return Air Fan.....	46,662.01	4,817.79
23 73 13 00-0124 EA 60,000 CFM Return Air Fan.....	47,739.59	4,944.35
23 73 13 00-0125 EA 65,000 CFM Return Air Fan.....	50,060.28	5,161.17
23 73 13 00-0126 EA 70,000 CFM Return Air Fan.....	52,579.41	5,415.32
23 73 13 00-0127 EA 75,000 CFM Return Air Fan.....	56,526.10	5,680.96
23 73 13 00-0128 EA 80,000 CFM Return Air Fan.....	59,043.08	5,982.11
23 73 13 00-0129 EA 90,000 CFM Return Air Fan.....	60,992.47	6,322.78
23 73 13 00-0130 EA 100,000 CFM Return Air Fan.....	65,544.36	6,612.18
23 73 13 00-0131 EA 115,000 CFM Return Air Fan.....	70,477.86	6,928.45
23 73 13 00-0132 EA 130,000 CFM Return Air Fan.....	75,833.15	7,277.51
23 73 13 00-0133 EA 150,000 CFM Return Air Fan.....	82,917.37	7,665.19

**23 73 13 00-0134 Removal And Reinstallation Of Air Handling Unit (23 73 13)**  
Note: Air handling units with filter and coils. Includes storage and cleaning. Excludes ductwork.

23 73 13 00-0135 EA Removal And Reinstallation Of Up To 11,500 CFM Air Handling Unit.....	3,311.26	
23 73 13 00-0136 EA Removal And Reinstallation Of >11,500 To 16,500 CFM Air Handling Unit.....	4,491.80	
23 73 13 00-0137 EA Removal And Reinstallation Of >16,500 To 22,000 CFM Air Handling Unit.....	5,587.74	
23 73 13 00-0138 EA Removal And Reinstallation Of >22,000 CFM Air Handling Unit.....	10,195.20	

**23 74 Packaged Outdoor HVAC Equipment (23 70)**

**23 74 16 Packaged Rooftop Air-Conditioning Units (23 74)**

**23 74 16 13 Packaged, Large-Capacity, Rooftop Air-Conditioning Units (23 74 16)**

**23 74 16 13-0001 Electric Cooling, Electric Heat, Self Contained Packaged Rooftop Air-Conditioning Units (23 74 16 13)**  
Note: Electric heating capacity is approximately 1/2 the cooling capacity. Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment, 26 28 16 16-0001 for disconnects.

23 74 16 13-0002 EA 2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	5,825.12	2,354.28
<i>For Unit Without Heat, Deduct</i>	-448.21	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,095.87	
<i>For Unit Without Roof Curb, Deduct</i>	-822.05	
23 74 16 13-0003 EA 3 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	7,310.29	2,461.29
<i>For Unit Without Heat, Deduct</i>	-529.60	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,095.87	
<i>For Unit Without Roof Curb, Deduct</i>	-822.05	
23 74 16 13-0004 EA 4 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	8,412.05	2,568.30
<i>For Unit Without Heat, Deduct</i>	-591.82	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,095.87	
<i>For Unit Without Roof Curb, Deduct</i>	-822.05	
23 74 16 13-0005 EA 5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	9,873.00	2,728.83
<i>For Unit Without Heat, Deduct</i>	-675.57	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,095.87	
<i>For Unit Without Roof Curb, Deduct</i>	-822.05	
23 74 16 13-0006 EA 6 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	10,718.71	2,889.34
<i>For Unit Without Heat, Deduct</i>	-728.56	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,095.87	
<i>For Unit Without Roof Curb, Deduct</i>	-822.05	
23 74 16 13-0007 EA 7.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	11,951.61	3,103.37
<i>For Unit Without Heat, Deduct</i>	-804.47	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,118.50	
<i>For Unit Without Roof Curb, Deduct</i>	-986.48	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 74 Packaged Outdoor HVAC Equipment**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0008 EA 8.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	12,797.34	3,263.88
<i>For Unit Without Heat, Deduct</i>	-857.46	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,118.50	
<i>For Unit Without Roof Curb, Deduct</i>	-986.48	
23 74 16 13-0009 EA 10 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	14,030.25	3,477.91
<i>For Unit Without Heat, Deduct</i>	-933.37	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,143.85	
<i>For Unit Without Roof Curb, Deduct</i>	-986.48	
23 74 16 13-0010 EA 12.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	16,794.24	3,758.28
<i>For Unit Without Heat, Deduct</i>	-1,090.30	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,235.34	
<i>For Unit Without Roof Curb, Deduct</i>	-986.48	
23 74 16 13-0011 EA 15 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	19,558.24	4,039.73
<i>For Unit Without Heat, Deduct</i>	-1,247.23	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-986.48	
23 74 16 13-0012 EA 17.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	22,239.85	4,320.46
<i>For Unit Without Heat, Deduct</i>	-1,400.04	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-986.48	
23 74 16 13-0013 EA 20 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	24,921.46	4,601.55
<i>For Unit Without Heat, Deduct</i>	-1,552.84	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-986.48	
23 74 16 13-0014 EA 22.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	27,907.69	5,069.55
<i>For Unit Without Heat, Deduct</i>	-1,733.37	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-986.48	
23 74 16 13-0015 EA 25 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	30,893.92	5,537.91
<i>For Unit Without Heat, Deduct</i>	-1,913.89	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-986.48	
23 74 16 13-0016 EA 27.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	34,006.42	6,059.78
<i>For Unit Without Heat, Deduct</i>	-2,104.29	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-1,480.86	
23 74 16 13-0017 EA 30 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	37,118.92	6,581.28
<i>For Unit Without Heat, Deduct</i>	-2,294.70	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-1,480.86	
23 74 16 13-0018 EA 35 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	43,250.48	7,678.16
<i>For Unit Without Heat, Deduct</i>	-2,674.40	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-1,480.86	
23 74 16 13-0019 EA 40 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	49,382.03	8,775.04
<i>For Unit Without Heat, Deduct</i>	-3,054.10	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-2,194.25	
23 74 16 13-0020 EA 45 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	54,395.73	9,898.68
<i>For Unit Without Heat, Deduct</i>	-3,379.70	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-2,194.25	
23 74 16 13-0021 EA 50 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	59,409.43	11,022.31
<i>For Unit Without Heat, Deduct</i>	-3,705.29	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-2,194.25	
23 74 16 13-0022 EA 55 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	65,395.47	12,092.44
<i>For Unit Without Heat, Deduct</i>	-4,075.94	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-2,707.26	
23 74 16 13-0023 EA 60 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	71,381.49	13,162.57
<i>For Unit Without Heat, Deduct</i>	-4,446.58	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-2,707.26	
23 74 16 13-0024 EA 65 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	77,202.73	14,232.69
<i>For Unit Without Heat, Deduct</i>	-4,808.98	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-2,802.59	
23 74 16 13-0025 EA 70 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	83,023.96	15,302.82
<i>For Unit Without Heat, Deduct</i>	-5,171.39	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-2,802.59	
23 74 16 13-0026 EA 75 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit .....	88,987.87	16,479.97
<i>For Unit Without Heat, Deduct</i>	-5,548.06	
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-2,335.19	
<i>For Unit Without Roof Curb, Deduct</i>	-3,115.94	
<b>23 74 16 13-0027 Electric Cooling, Gas Heat, Self Contained Packaged Rooftop Air-Conditioning Units</b> <small>(23 74 16 13)</small>		
Note: Units < 5 tons have 14 SEER, units 5 to < 20 tons have 11 EER, and units 20 tons and over have 10 EER. Includes roof curb and economizer. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment, 26 28 16 16-0001 for Disconnects.		
23 74 16 13-0028 EA 2 Ton Electric Cooling, 50 MBH Gas Heating, Self Contained Package Rooftop Unit .....	5,660.97	2,140.26
<i>For Unit Without Factory Installed Economizer, Deduct</i>	-1,095.87	
<i>For Unit Without Roof Curb, Deduct</i>	-822.05	



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>	<b>23</b>
Central HVAC Equipment	23 70
Packaged Outdoor HVAC Equipment	23 74



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0029 EA 3 Ton Electric Cooling, 60 To 80 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	6,461.86 -1,095.87 -822.05	2,461.29
23 74 16 13-0030 EA 4 Ton Electric Cooling, 80 To 110 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	7,893.37 -1,095.87 -822.05	2,835.84
23 74 16 13-0031 EA 5 Ton Electric Cooling, 100 To 120 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	8,973.76 -1,095.87 -822.05	3,049.87
23 74 16 13-0032 EA 6 Ton Electric Cooling, 140 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	10,007.60 -1,095.87 -822.05	3,290.64
23 74 16 13-0033 EA 7.5 Ton Electric Cooling, 150 To 180 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	10,879.59 -1,118.50 -986.48	3,451.17
23 74 16 13-0034 EA 8.5 Ton Electric Cooling, 170 To 190 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	12,853.78 -1,118.50 -986.48	2,862.59
23 74 16 13-0035 EA 10 Ton Electric Cooling, 200 To 240 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	15,746.21 -1,143.85 -986.48	3,852.46
23 74 16 13-0036 EA 12.5 Ton Electric Cooling, 250 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	17,188.62 -1,235.34 -986.48	4,173.49
23 74 16 13-0037 EA 15 Ton Electric Cooling, 300 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	20,577.49 -2,335.19 -986.48	4,494.53
23 74 16 13-0038 EA 17.5 Ton Electric Cooling, 330 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	21,773.17 -2,335.19 -986.48	4,815.57
23 74 16 13-0039 EA 20 Ton Electric Cooling, 350 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	32,509.26 -2,335.19 -986.48	5,136.61
23 74 16 13-0040 EA 22.5 Ton Electric Cooling, 380 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	39,473.29 -2,335.19 -986.48	5,671.67
23 74 16 13-0041 EA 25 Ton Electric Cooling, 400 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	46,437.33 -2,335.19 -986.48	6,135.40
23 74 16 13-0042 EA 27.5 Ton Electric Cooling, 450 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	47,973.20 -2,335.19 -1,480.86	6,741.81
23 74 16 13-0043 EA 30 Ton Electric Cooling, 500 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	51,499.40 -2,335.19 -1,480.86	7,276.86
23 74 16 13-0044 EA 35 Ton Electric Cooling, 550 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	55,591.16 -2,335.19 -1,480.86	8,507.51
23 74 16 13-0045 EA 40 Ton Electric Cooling, 600 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	61,673.25 -2,335.19 -2,194.25	9,738.16
23 74 16 13-0046 EA 45 Ton Electric Cooling, 650 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	66,658.75 -2,335.19 -2,194.25	10,968.80
23 74 16 13-0047 EA 50 Ton Electric Cooling, 750 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	71,644.23 -2,335.19 -2,194.25	12,199.45
23 74 16 13-0048 EA 55 Ton Electric Cooling, 800 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	78,493.94 -2,335.19 -2,707.26	13,430.10
23 74 16 13-0049 EA 60 Ton Electric Cooling, 850 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	85,343.65 -2,335.19 -2,707.26	14,660.75
23 74 16 13-0050 EA 65 Ton Electric Cooling, 900 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	91,235.86 -2,335.19 -2,802.59	15,276.06
23 74 16 13-0051 EA 70 Ton Electric Cooling, 950 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	97,092.40 -2,335.19 -2,802.59	15,864.64
23 74 16 13-0052 EA 75 Ton Electric Cooling, 1,000 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	102,984.59 -2,335.19 -3,115.94	16,479.97
23 74 16 13-0053 EA 80 Ton Electric Cooling, 1,100 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	108,912.48 -2,335.19 -3,115.94	17,122.04
23 74 16 13-0054 EA 90 Ton Electric Cooling, 1,200 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	146,902.23 -2,335.19 -3,115.94	20,118.39
23 74 16 13-0055 EA 100 Ton Electric Cooling, 1,350 MBH Gas Heating, Self Contained Package Rooftop Unit..... <i>For Unit Without Factory Installed Economizer, Deduct</i> <i>For Unit Without Roof Curb, Deduct</i>	169,749.55 -2,335.19 -3,115.94	24,505.91

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

23 74 16 13-0056	<b>AAON Rooftop Units</b> <small>(23 74 16 13)</small> Note: Units < 5 tons have 14 SEER minimum, units 5 to < 20 tons have 11 EER minimum, and units 20 tons and over have 10 EER minimum. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment, 23 09 23 00-0000 for controls, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0057	<b>AAON RQ Rooftop Units</b> <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD (or ECM motor), single stage on/off scroll compressor, terminal strip for field supplied thermostat, gas heat, manually adjustable OSA damper, microchannel condenser coils. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.		
23 74 16 13-0058	EA 2 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-002) ..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	14,966.69 1,533.79 1,664.07 1,310.11 1,499.38 7,644.38 1,784.51	2,140.26
23 74 16 13-0059	EA 3 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-003) ..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	16,353.36 1,644.40 1,784.51 1,403.52 1,607.53 7,644.38 1,784.51	2,461.29
23 74 16 13-0060	EA 4 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-004) ..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	17,071.53 1,644.40 1,784.51 1,403.52 1,607.53 7,644.38 1,784.51	2,835.84
23 74 16 13-0061	EA 5 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-005) ..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	17,551.07 1,644.40 1,784.51 1,403.52 1,607.53 7,644.38 1,784.51	3,049.87
23 74 16 13-0062	EA 6 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-006) ..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	19,187.14 1,644.40 1,784.51 1,403.52 1,607.53 7,644.38 1,784.51	3,718.77
23 74 16 13-0063	<b>AAON RNA Rooftop Units</b> <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, single stage on/off compressor, terminal strip for field provided thermostat, gas heat, manually adjustable OSA damper. Excludes economizer, controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.		
23 74 16 13-0064	EA 6 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-006) ..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	23,024.08 1,600.16 2,458.00 1,639.49 1,514.13 4,082.74 1,391.23	3,290.71
23 74 16 13-0065	EA 7 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-007) ..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	24,562.97 1,600.16 2,458.00 1,639.49 1,514.13 4,082.74 1,391.23	3,451.24
23 74 16 13-0066	EA 8 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-008) ..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	28,134.74 1,600.16 2,458.00 1,639.49 1,514.13 4,082.74 1,391.23	3,718.77
23 74 16 13-0067	EA 10 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-010) ..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	28,443.37 1,600.16 2,458.00 1,639.49 1,514.13 4,082.74 1,391.23	3,852.46



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0068			<b>AAON RNB Rooftop Units</b> <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.		
23 74 16 13-0069	EA		9 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-009) ..... For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Factory Installed Exhaust Fan, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	33,543.72 2,357.22 1,843.50 1,462.51 3,893.47 1,398.60	3,852.46
23 74 16 13-0070	EA		11 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-011) ..... For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Factory Installed Exhaust Fan, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	33,762.36 2,357.22 1,843.50 1,462.51 3,893.47 1,398.60	3,745.45
23 74 16 13-0071	EA		13 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-013) ..... For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Factory Installed Exhaust Fan, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	36,835.34 2,357.22 1,843.50 1,462.51 3,893.47 1,398.60	4,173.49
23 74 16 13-0072	EA		15 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-015) ..... For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Factory Installed Exhaust Fan, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	37,833.64 2,357.22 1,843.50 1,462.51 3,893.47 1,398.60	4,494.53
23 74 16 13-0073			<b>AAON RNC Rooftop Units</b> <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0074	EA		16 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-016) ..... For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Factory Installed Exhaust Fan, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	48,383.38 3,480.53 2,458.00 1,462.51 7,140.49 636.62	4,494.53
23 74 16 13-0075	EA		18 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-018) ..... For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Factory Installed Exhaust Fan, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	52,257.55 3,480.53 2,458.00 1,462.51 7,140.49 636.62	4,815.57
23 74 16 13-0076	EA		20 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-020) ..... For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Factory Installed Exhaust Fan, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	55,382.03 3,480.53 2,458.00 1,462.51 7,140.49 636.62	5,136.61
23 74 16 13-0077	EA		25 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-025) ..... For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Factory Installed Exhaust Fan, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	60,095.21 3,480.53 2,458.00 1,462.51 7,140.49 636.62	6,206.74
23 74 16 13-0078	EA		30 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-030) ..... For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Factory Installed Exhaust Fan, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	68,220.10 3,480.53 2,458.00 1,462.51 7,140.49 636.62	7,276.86
23 74 16 13-0079			<b>AAON RND Rooftop Units</b> <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) variable capacity digital scroll compressor and (2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), factory installed non-fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0080	EA		26 Ton, Air Cooled Packaged Rooftop Units (AAON RND-026) ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	90,394.97 3,072.50 3,328.13 4,670.20	6,206.74
23 74 16 13-0081	EA		31 Ton, Air Cooled Packaged Rooftop Units (AAON RND-031) ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	103,057.33 3,072.50 3,328.13 4,670.20	7,276.86
23 74 16 13-0082	EA		40 Ton, Air Cooled Packaged Rooftop Units (AAON RND-040) ..... For Factory Authorized Start Up, 4 Hour, One Trip, Add ..... For Factory Installed Non-Fused Disconnect, Add ..... For Hot Water Coil In Lieu Of Gas Heat, Add .....	121,748.25 3,072.50 3,328.13 4,670.20	9,738.16

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 74 Packaged Outdoor HVAC Equipment**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0083 EA 50 Ton, Air Cooled Packaged Rooftop Units (AAON RND-050)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	142,997.95 3,072.50 3,328.13 4,670.20	12,199.45
23 74 16 13-0084 EA 60 Ton, Air Cooled Packaged Rooftop Units (AAON RND-060)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	157,426.70 3,072.50 3,328.13 4,670.20	14,660.75
23 74 16 13-0085 EA 70 Ton, Air Cooled Packaged Rooftop Units (AAON RND-070)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	165,784.03 3,072.50 3,328.13 4,670.20	15,864.71
<b>23 74 16 13-0086</b> <b>AAON RNE Rooftop Units</b> <small>(23 74 16 13-0056)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1 or 2) variable speed VFD controlled scroll compressor and (1 or 2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), Microchannel condenser coils with VFD controlled condenser fans, factory installed non-fused disconnect and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0087 EA 55 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-055)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	152,747.75 3,470.70 4,984.82 6,636.60	13,430.10
23 74 16 13-0088 EA 65 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-065)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	168,396.21 3,470.70 4,984.82 6,636.60	15,276.13
23 74 16 13-0089 EA 75 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-075)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	179,118.13 3,470.70 4,984.82 6,636.60	16,479.97
23 74 16 13-0090 EA 95 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-090)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	217,457.16 3,470.70 4,984.82 6,636.60	22,312.15
23 74 16 13-0091 EA 105 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-105)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	235,915.37 3,470.70 4,984.82 6,636.60	25,469.03
23 74 16 13-0092 EA 120 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-120)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	274,621.88 3,470.70 4,984.82 6,636.60	28,037.33
23 74 16 13-0093 EA 130 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-130)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	281,641.39 3,470.70 4,984.82 6,636.60	29,749.53
23 74 16 13-0094 EA 140 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-140)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	295,786.20 3,470.70 4,984.82 6,636.60	33,280.97
<b>23 74 16 13-0095</b> <b>Heat Pump, Packaged Rooftop Heat Pump Units</b> <small>(23 74 16 13)</small> See CSI section 01 22 23 00-0882 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
<b>23 74 16 13-0096</b> <b>Packaged Rooftop Heat Pump Units</b> <small>(23 74 16 13-0095)</small> Note: Includes evaporator and condenser coils, electric heat, thermostatic expansion valve, compressor, evaporator and condenser fans, refrigerant charge, filter section with filter, operation and safety controls, motors, condensate drain pan, condenser coil guards, manual outside air damper, and roof curb. Excludes crane and associated personnel.		
23 74 16 13-0097 EA 2 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	7,016.25 2,218.22 222.40 -822.05	1,926.23
23 74 16 13-0098 EA 2.5 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	7,404.39 2,355.59 232.17 -822.05	2,070.77
23 74 16 13-0099 EA 3 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	7,841.41 2,503.23 244.39 -822.05	2,215.16
23 74 16 13-0100 EA 3.5 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	8,417.25 2,479.76 261.95 -822.05	2,383.68
23 74 16 13-0101 EA 4 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	8,993.33 2,651.86 279.52 -822.05	2,552.32





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0102 EA 5 Ton Packaged Rooftop Heat Pump ..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	9,642.79 2,847.02 239.32 -822.05	2,744.95
23 74 16 13-0103 EA 6 Ton Packaged Rooftop Heat Pump ..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	10,798.51 3,138.84 205.49 -822.05	2,961.54
23 74 16 13-0104 EA 7.5 Ton Packaged Rooftop Heat Pump ..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	13,607.49 3,206.63 283.98 -986.48	3,106.08
23 74 16 13-0105 EA 8.5 Ton Packaged Rooftop Heat Pump ..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	15,169.76 3,409.02 321.22 -986.48	3,346.79
23 74 16 13-0106 EA 10 Ton Packaged Rooftop Heat Pump ..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	16,258.32 3,475.01 232.71 -986.48	3,467.21
23 74 16 13-0107 EA 12.5 Ton Packaged Rooftop Heat Pump ..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	18,755.30 3,878.81 274.94 -986.48	3,756.15
23 74 16 13-0108 EA 15 Ton Packaged Rooftop Heat Pump ..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	21,252.26 4,282.60 317.18 -986.48	4,045.08
23 74 16 13-0109 EA 17.5 Ton Packaged Rooftop Heat Pump ..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	23,724.19 4,683.89 358.91 -986.48	4,334.02
23 74 16 13-0110 EA 20 Ton Packaged Rooftop Heat Pump ..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	26,196.13 5,085.19 400.64 -986.48	4,622.95
<b>23 74 16 13-0111 Heating Only Packaged Rooftop Units</b> <small>(23 74 16 13-0095)</small> Note: Includes throwaway filters, filter rack, manual outside air damper, roof curbs and electric heat. Units are shipped fully factory assembled in one piece, prewired and include start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0112 EA 24 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	7,337.79 462.28 -822.05	1,926.23
23 74 16 13-0113 EA 32 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	8,604.67 543.26 -822.05	2,215.16
23 74 16 13-0114 EA 45 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	11,612.31 744.80 -822.05	2,552.32
23 74 16 13-0115 EA 60 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	13,054.29 840.60 -822.05	2,744.95
23 74 16 13-0116 EA 95 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	15,299.11 988.11 -986.48	3,106.08
23 74 16 13-0117 EA 112 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	17,181.07 1,113.43 -986.48	3,346.79
23 74 16 13-0118 EA 140 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	20,162.82 1,318.94 -986.48	3,467.21
23 74 16 13-0119 EA 170 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	26,032.32 1,714.39 -986.48	4,045.08
23 74 16 13-0120 EA 200 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	34,034.30 2,266.83 -986.48	4,334.02
23 74 16 13-0121 EA 230 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	39,579.27 2,647.27 -986.48	4,622.95
23 74 16 13-0122 EA 270 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	51,153.60 3,444.63 -986.48	5,104.51
23 74 16 13-0123 EA 330 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	63,864.29 4,308.70 -1,480.86	6,495.67
23 74 16 13-0124 EA 360 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	78,265.62 5,303.95 -1,480.86	6,549.18
23 74 16 13-0125 EA 450 MBH Electric Heating Only, Self Contained Package Rooftop Unit ..... <i>For Gas Heat, Add</i> <i>For Unit Without Roof Curb, Deduct</i>	95,221.56 6,461.33 -1,480.86	7,656.83

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 70 Central HVAC Equipment**

**23 74 Packaged Outdoor HVAC Equipment**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0126 EA 540 MBH Electric Heating Only, Self Contained Package Rooftop Unit <i>For Gas Heat, Add For Unit Without Roof Curb, Deduct</i>	123,482.32 8,380.51 -2,194.25	9,871.99
<b>23 74 23 Packaged, Outdoor, Heating-Only Makeup-Air Units (23 74)</b>		
<b>23 74 23 13 Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units (23 74 23)</b>		
<b>23 74 23 13-0001 Make-Up Air Units (23 74 23 13)</b> Note: Units are shipped fully factory assembled in one piece, prewired, prepiped, charged with refrigerant. Includes throwaway filters and start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0882 for crane lifting equipment.		
<b>23 74 23 13-0002 Gas-Fired Electric Spark Make-Up Air Units (23 74 23 13-0001)</b> Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0883 for crane lifting equipment.		
23 74 23 13-0003 EA 100,000 BTU 1/2 HP, 1,200 CFM, Make-up Air Unit, Gas Fired, Electric Spark <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	8,121.37 2,115.37 983.07	642.08
23 74 23 13-0004 EA 300,000 BTU 1-1/2 HP, 3,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	10,465.01 2,772.09 1,271.39	727.69
23 74 23 13-0005 EA 500,000 BTU 2 HP, 4,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	14,505.69 3,923.66 1,770.41	856.10
23 74 23 13-0006 EA 670,000 BTU 3 HP, 6,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	14,644.61 3,933.23 1,784.56	913.17
23 74 23 13-0007 EA 800,000 BTU 5 HP, 7,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	19,935.66 5,467.04 2,440.59	1,027.32
23 74 23 13-0008 EA 1,200,000 BTU 10 HP, 10,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	30,135.79 8,398.66 3,702.77	1,284.15
<b>23 74 23 13-0009 Electric Make-Up Air Units (23 74 23 13-0001)</b> Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0883 for crane lifting equipment.		
23 74 23 13-0010 EA 33 KW, 1/2 HP, 1,200 CFM Make-up Air Unit, Electric <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	16,540.32 4,641.06 2,035.44	642.08
23 74 23 13-0011 EA 100 KW, 1-1/2 HP, 3,500 CFM Make-up Air Unit, Electric <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	23,604.21 6,713.85 2,913.79	727.69
23 74 23 13-0012 EA 150 KW, 2 HP, 4,000 CFM Make-up Air Unit, Electric <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	29,230.82 8,341.20 3,611.05	856.10
23 74 23 13-0013 EA 250 KW, 5 HP, 7,500 CFM Make-up Air Unit, Electric <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	37,795.03 10,824.85 4,673.01	1,027.32
23 74 23 13-0014 EA 400 KW, 10 HP, 10,000 CFM Make-up Air Unit, Electric <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Equipment Base Roof Curb, Add</i>	61,014.98 17,662.42 7,562.67	1,284.15
<b>23 76 Evaporative Air-Cooling Equipment (23 70)</b>		
<b>23 76 13 Direct Evaporative Air Coolers (23 76)</b>		
<b>23 76 13 00-0001 Residential Side Or Down Draft Evaporative Cooling Unit (23 76 13)</b> Note: Includes motor, belt and pads.		
23 76 13 00-0002 EA 3,000 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,630.06	424.25
23 76 13 00-0003 EA 4,300 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit	1,923.45	494.95
23 76 13 00-0004 EA 4,400 CFM, 1/2 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,465.67	565.66
23 76 13 00-0005 EA 5,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,690.58	636.36
23 76 13 00-0006 EA 6,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit	3,082.51	707.07
23 76 13 00-0007 EA 7,000 CFM, 1 HP Residential Side Or Down Draft Evaporative Cooling Unit	3,324.13	777.78
<b>23 76 13 00-0008 Industrial Side Draft/Side Discharge Evaporative Coolers (23 76 13)</b> Note: Excludes motor starter, piping, power wiring and equipment rigging.		
23 76 13 00-0009 EA 7,500 CFM, 3/4 HP Industrial Side Or Down Draft Evaporative Cooling Unit	3,004.73	426.92
23 76 13 00-0010 EA 8,500 CFM, 1 HP Industrial Side Or Down Draft Evaporative Cooling Unit	3,100.95	440.74
23 76 13 00-0011 EA 9,500 CFM, 1 1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	3,727.67	612.11
23 76 13 00-0012 EA 11,375 CFM, 2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	7,742.74	722.54
23 76 13 00-0013 EA 13,020 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit	8,490.07	1,057.79
23 76 13 00-0014 EA 16,267 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit	9,693.25	1,128.31
23 76 13 00-0015 EA 15,438 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit	8,996.69	1,269.35
23 76 13 00-0016 EA 19,286 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit	10,703.52	1,586.69
23 76 13 00-0017 EA 17,672 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	10,936.86	2,074.12
23 76 13 00-0018 EA 22,077 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	12,096.99	2,115.59
23 76 13 00-0019 EA 24,301 CFM, 10 HP Industrial Side Or Down Draft Evaporative Cooling Unit	12,789.23	2,350.70
23 76 13 00-0020 EA 30,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit	17,365.94	3,672.94



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>	<b>23</b>
<b>Central HVAC Equipment</b>	<b>23 70</b>
<b>Evaporative Air-Cooling Equipment</b>	<b>23 76</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 76	13 00-0021	EA	35,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit .....	19,355.35	3,832.60
23 76	13 00-0022	EA	40,000 CFM, 30 HP Industrial Side Or Down Draft Evaporative Cooling Unit .....	21,373.79	4,006.78

**23 80 Decentralized Unitary HVAC Equipment** <sup>(23)</sup>

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 23 05 29 00-0000 for hangers and supports, 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

**23 81 Decentralized Unitary HVAC Equipment** <sup>(23 80)</sup>

**23 81 13 Packaged Terminal Air-Conditioners** <sup>(23 81)</sup>

Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.

**23 81 13 11 Packaged Terminal Air-Conditioners, Through-Wall Units** <sup>(23 81 13)</sup>

**23 81 13 11-0001 Packaged Terminal Air-Conditioners** <sup>(23 81 13 11)</sup>

**23 81 13 11-0002 Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioners** <sup>(23 81 13 11-0001)</sup>

23 81 13 11-0003	EA	7,200 BTU, 13 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner.....	2,127.22	265.15
		For >35 To 70, Deduct	-47.91	
		For >70 To 100, Deduct	-79.85	
		For >100, Deduct	-111.78	
23 81 13 11-0004	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner.....	2,275.94	326.27
		For >35 To 70, Deduct	-48.72	
		For >70 To 100, Deduct	-81.21	
		For >100, Deduct	-113.69	
23 81 13 11-0005	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner.....	2,410.39	347.72
		For >35 To 70, Deduct	-51.42	
		For >70 To 100, Deduct	-85.71	
		For >100, Deduct	-119.99	
23 81 13 11-0006	EA	14,500 BTU, 10.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner.....	2,603.65	373.75
		For >35 To 70, Deduct	-55.69	
		For >70 To 100, Deduct	-92.82	
		For >100, Deduct	-129.95	

**23 81 13 11-0007 Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioners** <sup>(23 81 13 11-0001)</sup>

23 81 13 11-0008	EA	7,200 BTU, 13 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner.....	2,285.68	289.51
		For >35 To 70, Deduct	-51.23	
		For >70 To 100, Deduct	-85.38	
		For >100, Deduct	-119.54	
23 81 13 11-0009	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner.....	2,420.35	326.27
		For >35 To 70, Deduct	-53.06	
		For >70 To 100, Deduct	-88.43	
		For >100, Deduct	-123.80	
23 81 13 11-0010	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner.....	2,515.04	347.72
		For >35 To 70, Deduct	-54.56	
		For >70 To 100, Deduct	-90.94	
		For >100, Deduct	-127.31	
23 81 13 11-0011	EA	14,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner.....	2,741.78	373.75
		For >35 To 70, Deduct	-59.84	
		For >70 To 100, Deduct	-99.73	
		For >100, Deduct	-139.62	

**23 81 13 11-0012 Packaged Terminal Air-Conditioners, Through-Wall Unit Sleeve** <sup>(23 81 13 11)</sup>

Note: Includes wall case, exterior grille, weather panel and steel closure panels. Includes bolts, nuts, washers, caulking and lintel supports. Not for use with new A/C units where wall sleeve is provided. Excludes cutting opening for unit or patching masonry or concrete.

23 81 13 11-0013	EA	Up To 10,000 BTU Unit, Thru Wall A/C Sleeve .....	108.84	
23 81 13 11-0014	EA	>10,000 To 20,000 BTU Unit, Thru Wall A/C Sleeve.....	122.27	
23 81 13 11-0015	EA	>20,000 To 30,000 BTU Unit, Thru Wall A/C Sleeve.....	135.70	

**23 81 13 11-0016 Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units** <sup>(23 81 13 11)</sup>

Note: Includes storage and cleaning.

23 81 13 11-0017	EA	Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units.....	282.83	
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**23 81 13 13 Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units** <sup>(23 81 13)</sup>

**23 81 13 13-0001 Single Package Vertical Wall Cooling Unit** <sup>(23 81 13 13)</sup>

Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0883 for crane lifting equipment.

23 81 13 13-0002	EA	1/2 Ton Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat.....	5,127.03	322.14
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**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 81 Decentralized Unitary HVAC Equipment**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 13	13-0003	EA	1 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	7,743.70	337.49
23 81 13	13-0004	EA	1-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	10,092.64	352.82
23 81 13	13-0005	EA	2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	11,598.15	383.50
23 81 13	13-0006	EA	2-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	14,533.16	444.87
23 81 13	13-0007	EA	3 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	15,622.01	552.25
23 81 13	13-0008	EA	3-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	17,299.24	613.60
23 81 13	13-0009	EA	4 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	19,052.47	690.30
23 81 13	13-0010	EA	5 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	21,456.81	828.36
23 81 13	13-0011	EA	7-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	27,723.61	1,027.79
23 81 13	13-0012	EA	10 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	33,126.41	1,380.61
23 81 13	13-0013	EA	15 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	46,353.67	1,687.41
23 81 13	13-0014	EA	20 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	53,424.30	2,009.55
23 81 13	13-0015	EA	25 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat .....	63,796.22	2,254.99

**23 81 16 Room Air-Conditioners (23 81)**

Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.

23 81 16 00-0001			Window Unit, Room Air-Conditioners (23 81 16)		
23 81 16 00-0002			Cooling Only, Window Unit, Room Air-Conditioners (23 81 16 00-0001)		
23 81 16 00-0003			Cooling Only, Window Unit, Room Air-Conditioners (Frigidaire) (23 81 16 00-0002)		
23 81 16 00-0004	EA		5,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0533Q1) .....	564.68	148.49
			For >10 To 50, Deduct	-13.39	
			For >50 To 75, Deduct	-18.74	
			For >75 To 100, Deduct	-26.77	
			For >100, Deduct	-32.13	
23 81 16 00-0005	EA		6,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0633Q1) .....	591.59	148.49
			For >10 To 50, Deduct	-14.73	
			For >50 To 75, Deduct	-20.62	
			For >75 To 100, Deduct	-29.46	
			For >100, Deduct	-35.35	
23 81 16 00-0006	EA		8,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0833U1) .....	658.86	148.49
			For >10 To 50, Deduct	-18.09	
			For >50 To 75, Deduct	-25.33	
			For >75 To 100, Deduct	-36.19	
			For >100, Deduct	-43.43	
23 81 16 00-0007	EA		10,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1033U1) .....	753.03	148.49
			For >10 To 50, Deduct	-22.80	
			For >50 To 75, Deduct	-31.92	
			For >75 To 100, Deduct	-45.61	
			For >100, Deduct	-54.73	
23 81 16 00-0008	EA		12,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1233Q1) .....	874.10	148.49
			For >10 To 50, Deduct	-28.86	
			For >50 To 75, Deduct	-40.40	
			For >75 To 100, Deduct	-57.71	
			For >100, Deduct	-69.26	
23 81 16 00-0009	EA		15,100 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1533Q1) .....	1,008.63	148.49
			For >10 To 50, Deduct	-35.58	
			For >50 To 75, Deduct	-49.82	
			For >75 To 100, Deduct	-71.17	
			For >100, Deduct	-85.40	
23 81 16 00-0010	EA		8,000 BTU, 10.9 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS0833Q1) .....	954.82	148.49
			For >10 To 50, Deduct	-32.89	
			For >50 To 75, Deduct	-46.05	
			For >75 To 100, Deduct	-65.79	
			For >100, Deduct	-78.94	
23 81 16 00-0011	EA		10,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1022Q1) .....	1,022.09	148.49
			For >10 To 50, Deduct	-36.26	
			For >50 To 75, Deduct	-50.76	
			For >75 To 100, Deduct	-72.51	
			For >100, Deduct	-87.01	
23 81 16 00-0012	EA		12,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1222Q1) .....	1,075.90	148.49
			For >10 To 50, Deduct	-38.95	
			For >50 To 75, Deduct	-54.53	
			For >75 To 100, Deduct	-77.89	
			For >100, Deduct	-93.47	
23 81 16 00-0013	EA		18,500 BTU, 11.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1833Q2) .....	1,129.71	148.49
			For >10 To 50, Deduct	-41.64	
			For >50 To 75, Deduct	-58.29	
			For >75 To 100, Deduct	-83.27	
			For >100, Deduct	-99.93	
23 81 16 00-0014	EA		22,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2233S2) .....	1,237.33	148.49
			For >10 To 50, Deduct	-47.02	
			For >50 To 75, Deduct	-65.83	
			For >75 To 100, Deduct	-94.04	
			For >100, Deduct	-112.84	



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>	<b>23</b>
<b>Decentralized Unitary HVAC Equipment</b>	<b>23 80</b>
<b>Decentralized Unitary HVAC Equipment</b>	<b>23 81</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0015 EA 25,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2533S2).....	1,250.79	148.49
<i>For &gt;10 To 50, Deduct</i>	-47.69	
<i>For &gt;50 To 75, Deduct</i>	-66.77	
<i>For &gt;75 To 100, Deduct</i>	-95.38	
<i>For &gt;100, Deduct</i>	-114.46	
23 81 16 00-0016 EA 28,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRA2822R2).....	1,961.68	148.49
<i>For &gt;10 To 50, Deduct</i>	-83.24	
<i>For &gt;50 To 75, Deduct</i>	-116.53	
<i>For &gt;75 To 100, Deduct</i>	-166.47	
<i>For &gt;100, Deduct</i>	-199.77	
<b>23 81 16 00-0017 Cooling Only, Window Unit, Room Air-Conditioners (Friedrich Kuhl) <small>(23 81 16 00-0002)</small></b>		
23 81 16 00-0018 EA 8,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS08N10C).....	2,077.76	148.49
23 81 16 00-0019 EA 10,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS10N10C).....	2,275.83	148.49
23 81 16 00-0020 EA 11,900 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N10C).....	2,365.86	148.49
23 81 16 00-0021 EA 12,000 BTU, 12.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N30C).....	2,401.87	148.49
23 81 16 00-0022 EA 20,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SM18N30C).....	2,725.98	148.49
23 81 16 00-0023 EA 24,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL24N30C).....	3,536.25	148.49
23 81 16 00-0024 EA 28,000 BTU, 10.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL28N30C).....	3,806.34	148.49
23 81 16 00-0025 EA 36,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL36N30B).....	4,166.46	148.49
<b>23 81 16 00-0026 Heating And Cooling, Window Unit, Room Air-Conditioners <small>(23 81 16 00-0001)</small></b>		
<b>23 81 16 00-0027 Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Frigidaire) <small>(23 81 16 00-0026)</small></b>		
23 81 16 00-0028 EA 8,000 BTU, 9.8 EER, 115 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH0822R1).....	1,075.90	148.49
<i>For &gt;10 To 50, Deduct</i>	-38.95	
<i>For &gt;50 To 75, Deduct</i>	-54.53	
<i>For &gt;75 To 100, Deduct</i>	-77.89	
<i>For &gt;100, Deduct</i>	-93.47	
23 81 16 00-0029 EA 12,000 BTU, 10.9 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1222R2).....	1,223.88	148.49
<i>For &gt;10 To 50, Deduct</i>	-46.35	
<i>For &gt;50 To 75, Deduct</i>	-64.88	
<i>For &gt;75 To 100, Deduct</i>	-92.69	
<i>For &gt;100, Deduct</i>	-111.23	
23 81 16 00-0030 EA 18,500 BTU, 10.7 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1822R2).....	1,304.60	148.49
<i>For &gt;10 To 50, Deduct</i>	-50.38	
<i>For &gt;50 To 75, Deduct</i>	-70.53	
<i>For &gt;75 To 100, Deduct</i>	-100.76	
<i>For &gt;100, Deduct</i>	-120.92	
23 81 16 00-0031 EA 25,000 BTU, 9.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH2522R2).....	1,600.57	148.49
<i>For &gt;10 To 50, Deduct</i>	-65.18	
<i>For &gt;50 To 75, Deduct</i>	-91.25	
<i>For &gt;75 To 100, Deduct</i>	-130.36	
<i>For &gt;100, Deduct</i>	-156.43	
<b>23 81 16 00-0032 Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Friedrich) <small>(23 81 16 00-0026)</small></b>		
23 81 16 00-0033 EA 12,000 BTU, 11.3 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Friedrich ES12N33B).....	2,491.90	148.49
<b>23 81 16 00-0034 Accessories <small>(23 81 16 00-0001)</small></b>		
23 81 16 00-0035 SET Aluminum Air Conditioner Unit Frame And Bracket Assembly.....	642.49	84.25
<b>23 81 16 00-0036 Removal And Reinstallation Of Room Air-Conditioners <small>(23 81 16)</small></b>		
Note: Includes storage and cleaning.		
23 81 16 00-0037 EA Removal And Reinstallation Of Room Air-Conditioning Unit In Window Lower Sash.....	176.77	
23 81 16 00-0038 EA Removal And Reinstallation Of Room Air-Conditioning Unit In Window Upper Sash.....	374.84	
<b>23 81 16 00-0039 Through-The-Wall, Room Air-Conditioners <small>(23 81 16)</small></b>		
Note: Base unit excludes wall sleeve.		
<b>23 81 16 00-0040 Cooling Only, Through-The-Wall, Room Air-Conditioners <small>(23 81 16 00-0039)</small></b>		
<b>23 81 16 00-0041 Cooling Only, Through-The-Wall, Room Air-Conditioners (Friedrich) <small>(23 81 16 00-0040)</small></b>		
23 81 16 00-0042 EA 8,000 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS08D10A).....	1,560.77	106.06
<i>For &gt;10 To 50, Deduct</i>	-67.43	
<i>For &gt;50 To 75, Deduct</i>	-94.41	
<i>For &gt;75 To 100, Deduct</i>	-134.87	
<i>For &gt;100, Deduct</i>	-161.84	
<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	305.54	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 81 Decentralized Unitary HVAC Equipment**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0043	EA		9,800 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D10B).....	1,686.81	106.06
			<i>For &gt;10 To 50, Deduct</i>	-73.73	
			<i>For &gt;50 To 75, Deduct</i>	-103.23	
			<i>For &gt;75 To 100, Deduct</i>	-147.47	
			<i>For &gt;100, Deduct</i>	-176.96	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	305.54	
23 81 16 00-0044	EA		12,000 BTU, 9.8 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D10A).....	1,920.89	106.06
			<i>For &gt;10 To 50, Deduct</i>	-85.44	
			<i>For &gt;50 To 75, Deduct</i>	-119.61	
			<i>For &gt;75 To 100, Deduct</i>	-170.88	
			<i>For &gt;100, Deduct</i>	-205.05	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	305.54	
23 81 16 00-0045	EA		10,000 BTU, 10.7 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D30A).....	1,686.81	106.06
			<i>For &gt;10 To 50, Deduct</i>	-73.73	
			<i>For &gt;50 To 75, Deduct</i>	-103.23	
			<i>For &gt;75 To 100, Deduct</i>	-147.47	
			<i>For &gt;100, Deduct</i>	-176.96	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	305.54	
23 81 16 00-0046	EA		12,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D30A).....	1,920.89	106.06
			<i>For &gt;10 To 50, Deduct</i>	-85.44	
			<i>For &gt;50 To 75, Deduct</i>	-119.61	
			<i>For &gt;75 To 100, Deduct</i>	-170.88	
			<i>For &gt;100, Deduct</i>	-205.05	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	305.54	
23 81 16 00-0047			<b>Heating And Cooling, Through-The-Wall, Room Air-Conditioners</b> (23 81 16 00-0039)		
23 81 16 00-0048			<b>Electric Heat, Heating And Cooling, Through-The-Wall, Room Air-Conditioners (Friedrich)</b> (23 81 16 00-0047)		
23 81 16 00-0049	EA		10,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE10D33).....	1,974.91	106.06
			<i>For &gt;10 To 50, Deduct</i>	-88.14	
			<i>For &gt;50 To 75, Deduct</i>	-123.40	
			<i>For &gt;75 To 100, Deduct</i>	-176.28	
			<i>For &gt;100, Deduct</i>	-211.53	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	305.54	
23 81 16 00-0050	EA		12,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE12D33).....	2,118.96	106.06
			<i>For &gt;10 To 50, Deduct</i>	-95.34	
			<i>For &gt;50 To 75, Deduct</i>	-133.48	
			<i>For &gt;75 To 100, Deduct</i>	-190.68	
			<i>For &gt;100, Deduct</i>	-228.82	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	305.54	
<b>23 81 23</b>			<b>Computer-Room Air-Conditioners</b> (23 81)		
			Note: Includes equipment rigging. Indoor units include filters.		
<b>23 81 23 12</b>			<b>Large-Capacity, Computer-Room Air-Conditioners, Floor Mounted Units</b> (23 81 23)		
23 81 23 12-0001			<b>Floor Mounted Air Cooled Direct Expansion Type</b> (23 81 23 12)		
			Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquid sensors, floor stand, and outdoor air cooled condenser complete with fan speed control. Excludes precharged copper pipe.		
23 81 23 12-0002	EA		3 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....	38,408.01	3,018.36
			Note: Includes interior unit and remote condenser. Excludes piping.		
			<i>For Liebert Unit, Add</i>	4,234.44	
23 81 23 12-0003	EA		5 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....	42,387.76	3,301.33
			Note: Includes interior unit and remote condenser. Excludes piping.		
			<i>For Liebert Unit, Add</i>	4,676.05	
23 81 23 12-0004	EA		6 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....	58,481.99	3,772.95
			Note: Includes interior unit and remote condenser. Excludes piping.		
			<i>For Liebert Unit, Add</i>	6,608.79	
23 81 23 12-0005	EA		8 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....	63,986.79	4,008.76
			Note: Includes interior unit and remote condenser. Excludes piping.		
			<i>For Liebert Unit, Add</i>	7,253.05	
23 81 23 12-0006	EA		10 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....	69,491.58	4,244.56
			Note: Includes interior unit and remote condenser. Excludes piping.		
			<i>For Liebert Unit, Add</i>	7,897.30	
23 81 23 12-0007	EA		16 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....	77,950.53	5,093.47
			Note: Includes interior unit and remote condenser. Excludes piping.		
			<i>For Liebert Unit, Add</i>	8,783.12	
23 81 23 12-0008	EA		20 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....	88,034.82	5,659.42
			Note: Includes interior unit and remote condenser. Excludes piping.		
			<i>For Liebert Unit, Add</i>	9,952.16	
23 81 23 12-0009	EA		22 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....	92,096.47	5,846.09
			Note: Includes interior unit and remote condenser. Excludes piping.		
			<i>For Liebert Unit, Add</i>	10,419.63	
23 81 23 12-0010	EA		24 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type .....	100,202.96	6,036.71
			Note: Includes interior unit and remote condenser. Excludes piping.		
			<i>For Liebert Unit, Add</i>	11,392.24	



<b>Heating, Ventilating, and Air-Conditioning (HVAC)</b>	<b>23</b>
<b>Decentralized Unitary HVAC Equipment</b>	<b>23 80</b>
<b>Decentralized Unitary HVAC Equipment</b>	<b>23 81</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 12-0011 EA 30 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type.....	108,422.99	6,791.30
Note: Includes interior unit and remote condenser. Excludes piping.		
For Liebert Unit, Add	12,290.24	
<b>23 81 23 12-0012 Floor Mounted Chilled Water Type (23 81 23 12)</b>		
Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for chilled water source.		
23 81 23 12-0013 EA 3 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source .....	22,968.14	2,068.19
For Liebert Unit, Add	2,526.32	
23 81 23 12-0014 EA 5 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source .....	24,704.31	2,290.92
For Liebert Unit, Add	2,706.22	
23 81 23 12-0015 EA 12 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source .....	30,768.65	3,489.41
For Liebert Unit, Add	3,264.52	
23 81 23 12-0016 EA 16 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source .....	32,131.93	3,535.36
For Liebert Unit, Add	3,427.33	
23 81 23 12-0017 EA 20 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source .....	33,373.58	3,676.78
For Liebert Unit, Add	3,556.54	
23 81 23 12-0018 EA 22 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source .....	34,239.61	4,030.32
For Liebert Unit, Add	3,608.23	
23 81 23 12-0019 EA 31 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source .....	36,353.15	4,383.86
For Liebert Unit, Add	3,814.97	
<b>23 81 23 12-0020 Floor Mounted Water Source (23 81 23 12)</b>		
Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes water source.		
23 81 23 12-0021 EA 3 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	17,953.23	1,886.47
For Liebert Unit, Add	1,891.74	
23 81 23 12-0022 EA 5 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	19,724.71	1,980.80
For Liebert Unit, Add	2,095.47	
23 81 23 12-0023 EA 6 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	25,394.67	2,075.12
For Liebert Unit, Add	2,786.68	
23 81 23 12-0024 EA 8 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	27,380.88	2,263.77
For Liebert Unit, Add	2,997.69	
23 81 23 12-0025 EA 9 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	28,803.09	2,358.37
For Liebert Unit, Add	3,157.76	
23 81 23 12-0026 EA 10 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	30,225.29	2,452.42
For Liebert Unit, Add	3,317.83	
23 81 23 12-0027 EA 12 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	31,446.26	2,641.06
For Liebert Unit, Add	3,434.24	
23 81 23 12-0028 EA 16 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	32,846.87	2,829.71
For Liebert Unit, Add	3,579.76	
23 81 23 12-0029 EA 20 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	33,863.47	3,018.36
For Liebert Unit, Add	3,673.54	
23 81 23 12-0030 EA 25 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit.....	38,728.92	3,584.30
For Liebert Unit, Add	4,171.54	
<b>23 81 23 12-0031 Floor Mounted Glycol System Type (23 81 23 12)</b>		
Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for water source.		
23 81 23 12-0032 EA 3 Ton Computer Room Air Conditioner, Glycol System Type .....	46,088.61	2,068.19
For Liebert Unit, Add	5,416.38	
23 81 23 12-0033 EA 5 Ton Computer Room Air Conditioner, Glycol System Type .....	49,609.78	2,290.92
For Liebert Unit, Add	5,819.40	
23 81 23 12-0034 EA 6 Ton Computer Room Air Conditioner, Glycol System Type .....	64,800.54	2,566.68
For Liebert Unit, Add	7,672.29	
23 81 23 12-0035 EA 8 Ton Computer Room Air Conditioner, Glycol System Type .....	74,943.80	2,842.44
For Liebert Unit, Add	8,894.24	
23 81 23 12-0036 EA 9 Ton Computer Room Air Conditioner, Glycol System Type .....	79,174.06	2,980.32
For Liebert Unit, Add	9,400.04	
23 81 23 12-0037 EA 10 Ton Computer Room Air Conditioner, Glycol System Type .....	84,538.98	3,118.20
For Liebert Unit, Add	10,047.67	
23 81 23 12-0038 EA 12 Ton Computer Room Air Conditioner, Glycol System Type .....	90,258.19	3,256.78
For Liebert Unit, Add	10,739.60	
23 81 23 12-0039 EA 15 Ton Computer Room Air Conditioner, Glycol System Type .....	96,894.81	3,379.81
For Liebert Unit, Add	11,546.19	
23 81 23 12-0040 EA 16 Ton Computer Room Air Conditioner, Glycol System Type .....	103,176.24	3,535.36
For Liebert Unit, Add	12,304.86	
23 81 23 12-0041 EA 20 Ton Computer Room Air Conditioner, Glycol System Type .....	113,137.40	3,676.78
For Liebert Unit, Add	13,527.02	
23 81 23 12-0042 EA 22 Ton Computer Room Air Conditioner, Glycol System Type .....	117,318.27	4,030.32
For Liebert Unit, Add	13,993.06	
23 81 23 12-0043 EA 30 Ton Computer Room Air Conditioner, Glycol System Type .....	142,924.92	4,383.86
For Liebert Unit, Add	17,136.44	
<b>23 81 23 12-0044 Removal And Reinstallation Of Computer Room Unit (23 81 23 12)</b>		
Note: Includes storage and cleaning. Excludes main mechanical piping. Reconnection of existing valves are included.		
23 81 23 12-0045 EA Removal And Reinstallation Up To 6 Ton, Floor Mounted Chilled Water Computer Room Unit.....	2,828.30	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 12-0046 EA Removal And Reinstallation Up To 6 Ton Direct Expansion Computer Room Unit .....	2,356.92	
<b>23 81 23 13 Computer-Room Air-Conditioners, Ceiling Mounted Units (23 81 23)</b>		
<b>23 81 23 13-0001 Ceiling Mounted Packaged Computer Room Air Conditioner (23 81 23 13)</b> Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand, and outdoor air cooled condenser complete with fan speed control.		
23 81 23 13-0002 EA 1 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....	15,146.73	896.57
For Liebert Unit, Add	1,725.31	
23 81 23 13-0003 EA 1.5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....	16,772.96	1,076.73
For Liebert Unit, Add	1,894.83	
23 81 23 13-0004 EA 2 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....	19,192.27	1,347.54
For Liebert Unit, Add	2,146.51	
23 81 23 13-0005 EA 3 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....	23,555.83	1,572.11
For Liebert Unit, Add	2,649.86	
23 81 23 13-0006 EA 5 Ton Packaged Computer Room Air Conditioner, Ceiling Mounted, Split System .....	31,814.49	1,708.72
For Liebert Unit, Add	3,656.58	
<b>23 81 26 Split-System Air-Conditioners (23 81)</b>		
<b>23 81 26 13 Small-Capacity Split-System Air-Conditioners (23 81 26)</b>		
<b>23 81 26 13-0001 Split System A/C Unit (23 81 26 13)</b> See CSI section 23 23 16 00-0001 for piping, 23 54 00 00-0000 for furnaces.		
<b>23 81 26 13-0002 Ductless Split System Air Conditioners (23 81 26 13-0001)</b> Note: Excludes refrigerant piping, electrical, and pad. Panasonic units or equal. See CSI section 23 81 49 00-0024 for ductless heat pumps.		
<b>23 81 26 13-0003 Wall Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)</b>		
23 81 26 13-0004 EA 9,000 BTU, 16 SEER, Wall Mounted Ductless Split System Air Conditioners .....	2,387.33	466.67
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0005 EA 11,900 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioner .....	2,591.24	509.10
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0006 EA 17,500 BTU, 20 SEER, Wall Mounted Ductless Split System Air Conditioners .....	3,209.35	565.66
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0007 EA 24,200 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioners .....	3,567.12	622.22
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0008 EA 25,200 BTU, 14.9 SEER, Wall Mounted Ductless Split System Air Conditioners .....	5,353.78	678.79
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0009 EA 29,800 BTU, 15 SEER, Wall Mounted Ductless Split System Air Conditioners .....	6,191.46	707.07
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0010 EA 31,400 BTU, 15.9 SEER, Wall Mounted Ductless Split System Air Conditioners .....	6,782.30	753.74
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
<b>23 81 26 13-0011 Dual and Tri Zone Wall Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)</b> Note: Use this section only when matching indoor and outdoor capacity units are not used.		
23 81 26 13-0012 EA 7,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....	1,040.43	226.27
Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0013 EA 9,000 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....	1,101.82	240.41
Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0014 EA 11,900 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....	1,164.11	254.55
Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0015 EA 17,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....	1,308.09	268.69
Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0016 EA 24,200 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners .....	1,398.20	282.83
Note: Includes indoor unit and wireless thermostat.		
23 81 26 13-0017 EA 19,700 BTU, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners .....	2,753.35	339.39
Note: Includes outdoor unit and refrigerant charge.		
23 81 26 13-0018 EA 25,400 BTU, 16.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners .....	3,044.01	367.68
Note: Includes outdoor unit and refrigerant charge.		
23 81 26 13-0019 EA 30,600 BTU, 17.6 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners .....	4,717.16	395.96
Note: Includes outdoor unit and refrigerant charge.		
<b>23 81 26 13-0020 Suspended Ceiling Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)</b> Note: Excludes hangers.		
23 81 26 13-0021 EA 24,400 BTU, 14.5 SEER, Ceiling Suspended Ductless Split System Air Conditioners .....	5,706.89	678.79
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0022 EA 31,200 BTU, 15.1 SEER, Ceiling Suspended Ductless Split System Air Conditioners .....	6,955.85	810.30
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0023 EA 39,000 BTU, 15.6 SEER, Ceiling Suspended Ductless Split System Air Conditioners .....	8,415.87	848.49
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
<b>23 81 26 13-0024 Recessed Ceiling Mounted Ductless Split System Air Conditioners (23 81 26 13-0002)</b> Note: Excludes hangers.		
23 81 26 13-0025 EA 11,900 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners .....	3,572.93	565.66
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 13-0026 EA 17,500 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners ..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,151.55	622.22
23 81 26 13-0027 EA 24,800 BTU, 14.1 SEER, Ceiling Recessed Ductless Split System Air Conditioners ..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,713.65	735.36
23 81 26 13-0028 EA 32,600 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners ..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,596.76	810.30
23 81 26 13-0029 EA 39,500 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners ..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	8,236.32	848.49
<b>23 81 26 13-0030 Ductless Split System Accessories (23 81 26 13-0002)</b>		
23 81 26 13-0031 LF 3" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	15.10	2.03
23 81 26 13-0032 LF 4" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	19.30	2.23
23 81 26 13-0033 LF 6" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	23.94	2.45
23 81 26 13-0034 EA 3" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	25.49	3.80
23 81 26 13-0035 EA 4" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	42.97	4.18
23 81 26 13-0036 EA 6" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	48.89	4.60
23 81 26 13-0037 EA 3" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	62.65	7.60
23 81 26 13-0038 EA 4" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	102.26	8.36
23 81 26 13-0039 EA 6" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	114.11	9.20
23 81 26 13-0040 EA 3" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	82.84	8.11
23 81 26 13-0041 EA 4" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	96.95	8.92
23 81 26 13-0042 EA 6" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	148.61	9.81
23 81 26 13-0043 EA 3" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	62.65	7.60
23 81 26 13-0044 EA 4" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	102.26	8.36
23 81 26 13-0045 EA 6" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	114.11	9.20
23 81 26 13-0046 EA 3" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	82.68	12.68
23 81 26 13-0047 EA 4" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	119.16	13.94
23 81 26 13-0048 EA 6" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	142.03	15.33
23 81 26 13-0049 EA 2-1/2" Wall Sleeve, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	44.96	2.53
23 81 26 13-0050 EA 3" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	50.99	7.60
23 81 26 13-0051 EA 4" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	81.27	8.36
23 81 26 13-0052 EA 3" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	46.33	7.60
23 81 26 13-0053 EA 4" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	62.62	8.36
23 81 26 13-0054 EA 6" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	67.48	9.20
23 81 26 13-0055 EA 4" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	214.89	10.13
23 81 26 13-0056 EA 6" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	243.59	11.15
23 81 26 13-0057 EA 14" Condensing Unit Mounting Blocks With End Caps .....	147.82	38.02
23 81 26 13-0058 EA 17" Condensing Unit Mounting Blocks With End Caps .....	162.47	40.55
23 81 26 13-0059 EA 36" Condensing Unit Mounting Blocks With End Caps .....	216.78	43.08
23 81 26 13-0060 EA End Cap, Set of 4 .....	23.29	
23 81 26 13-0061 EA 18" Condensing Unit Type 2 Wall Bracket, 165 LB Capacity .....	312.09	76.02
23 81 26 13-0062 EA 21" Condensing Unit Type 2 Wall Bracket, 220 LB Capacity .....	331.43	81.09
23 81 26 13-0063 LF 5/8" ID Condensate Drain Line .....	3.20	0.20
23 81 26 13-0064 LF 3/4" ID Condensate Drain Line .....	3.31	0.20
<b>23 81 26 13-0065 Cased A/C Evaporator Coils (23 81 26 13-0001)</b>		
<b>23 81 26 13-0066 Vertical Cased A/C Evaporator Coils (23 81 26 13-0065)</b>		
23 81 26 13-0067 EA 1-1/2 Ton Vertical Cased A/C Evaporator Coil .....	745.54	153.18
23 81 26 13-0068 EA 2 Ton Vertical Cased A/C Evaporator Coil .....	780.81	164.66
23 81 26 13-0069 EA 2-1/2 Ton Vertical Cased A/C Evaporator Coil .....	916.21	176.16
23 81 26 13-0070 EA 3 Ton Vertical Cased A/C Evaporator Coil .....	1,035.83	187.64
23 81 26 13-0071 EA 3-1/2 Ton Vertical Cased A/C Evaporator Coil .....	1,184.66	195.30
23 81 26 13-0072 EA 4 Ton Vertical Cased A/C Evaporator Coil .....	1,312.41	202.96
23 81 26 13-0073 EA 4-1/2 Ton Vertical Cased A/C Evaporator Coil .....	1,409.80	218.28
23 81 26 13-0074 EA 5 Ton Vertical Cased A/C Evaporator Coil .....	1,425.77	229.77
<b>23 81 26 13-0075 "A" Style Horizontal Cased A/C Evaporator Coils (23 81 26 13-0065)</b>		
23 81 26 13-0076 EA 2 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....	893.75	157.01
23 81 26 13-0077 EA 2-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....	1,018.45	165.82
23 81 26 13-0078 EA 3 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....	1,157.13	176.16
23 81 26 13-0079 EA 3-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....	1,199.48	182.51
23 81 26 13-0080 EA 4 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....	1,256.06	191.47
23 81 26 13-0081 EA 4-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....	1,276.17	201.42
23 81 26 13-0082 EA 5 Ton "A" Style Horizontal Cased A/C Evaporator Coil .....	1,295.88	211.38
<b>23 81 26 13-0083 Slab Style Horizontal Cased A/C Evaporator Coils (23 81 26 13-0065)</b>		
23 81 26 13-0084 EA 2 Ton Slab Style Horizontal Cased A/C Evaporator Coil .....	793.61	157.01
23 81 26 13-0085 EA 3 Ton Slab Style Horizontal Cased A/C Evaporator Coil .....	944.56	176.16
23 81 26 13-0086 EA 4 Ton Slab Style Horizontal Cased A/C Evaporator Coil .....	1,083.90	191.47
23 81 26 13-0087 EA 5 Ton Slab Style Horizontal Cased A/C Evaporator Coil .....	1,294.13	211.38
<b>23 81 26 16 Large-Capacity Split-System Air-Conditioners (23 81 26)</b>		
23 81 26 16-0001 Split System Air Conditioners, Variable Refrigerant Flow (Mitsubishi City Multi) (23 81 26 16)		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 81 Decentralized Unitary HVAC Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

23 81 26 16-0002	Outdoor Units <small>(23 81 26 16-0001)</small>			
23 81 26 16-0003	EA	6 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P72YKMU-A)	16,675.28	742.43
23 81 26 16-0004	EA	8 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P96YKMU-A)	18,111.44	883.84
23 81 26 16-0005	EA	10 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P120YKMU-A)	20,416.77	1,060.61
23 81 26 16-0006	EA	12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YKMU-A)	25,051.50	1,095.97
23 81 26 16-0007	EA	12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YSKMU-A)	33,195.51	1,131.32
23 81 26 16-0008	EA	14 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P168YSKMU-A)	34,419.54	1,166.67
23 81 26 16-0009	EA	16 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P192YSKMU-A)	35,643.58	1,202.02
23 81 26 16-0010	EA	18 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P216YSKMU-A)	37,736.79	1,272.73
23 81 26 16-0011	EA	20 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P240YSKMU-A)	39,830.00	1,343.44
23 81 26 16-0012	EA	22 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P264YSKMU-A)	44,535.44	1,414.15
23 81 26 16-0013	EA	24 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P288YSKMU-A)	49,240.87	1,484.85
23 81 26 16-0014	Indoor Units <small>(23 81 26 16-0001)</small>			
23 81 26 16-0015	EA	6 MBH Cooling, 6.7 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P06NBMU-E2)	1,790.36	229.80
23 81 26 16-0016	EA	8 MBH Cooling, 9 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P08NHMU-E2)	1,884.86	247.48
23 81 26 16-0017	EA	12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P12NHMU-E2)	1,969.51	265.15
23 81 26 16-0018	EA	15 MBH Cooling, 17 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P15NHMU-E2)	2,068.93	282.83
23 81 26 16-0019	EA	18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P18NHMU-E2)	2,253.85	335.86
23 81 26 16-0020	EA	24 MBH Cooling, 27 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P24NKMU-E2)	2,530.32	406.56
23 81 26 16-0021	EA	30 MBH Cooling, 34 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P30NKMU-E2)	2,741.98	441.93
23 81 26 16-0022	EA	6 MBH Cooling, 6.7 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P06NMAU-E3)	2,560.85	252.78
23 81 26 16-0023	EA	8 MBH Cooling, 9 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P08NMAU-E3)	2,653.96	272.22
23 81 26 16-0024	EA	12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P12NMAU-E3)	2,801.28	291.67
23 81 26 16-0025	EA	15 MBH Cooling, 17 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P15NMAU-E3)	3,037.31	311.11
23 81 26 16-0026	EA	18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P18NMAU-E3)	3,222.99	369.44
23 81 26 16-0027	EA	24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P24NMAU-E3)	3,555.98	447.23
23 81 26 16-0028	EA	27 MBH Cooling, 30 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P27NMAU-E3)	3,737.79	466.67
23 81 26 16-0029	EA	30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P30NMAU-E3)	3,939.33	486.12
23 81 26 16-0030	EA	36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P36NMAU-E3)	4,366.79	534.72
23 81 26 16-0031	EA	48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P48NMAU-E3)	4,838.47	588.20
23 81 26 16-0032	EA	54 MBH Cooling, 60 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P54NMAU-E3)	5,241.97	647.01
23 81 26 16-0033	EA	72 MBH Cooling, 80 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P72NMHSU-E)	6,598.63	711.71
23 81 26 16-0034	EA	96 MBH Cooling, 108 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P96NMHSU-E)	7,480.29	782.89
23 81 26 16-0035	EA	12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP12NEMU-E)	2,912.67	291.67
23 81 26 16-0036	EA	15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP15NEMU-E)	3,072.80	311.11
23 81 26 16-0037	EA	18 MBH Cooling, 20 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP18NEMU-E)	3,261.44	369.44
23 81 26 16-0038	EA	24 MBH Cooling, 27 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP24NEMU-E)	3,670.33	447.23
23 81 26 16-0039	EA	30 MBH Cooling, 34 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP30NEMU-E)	3,956.09	486.12
23 81 26 16-0040	EA	36 MBH Cooling, 40 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP36NEMU-E)	4,815.30	534.73
23 81 26 16-0041	EA	6 MBH Cooling, 6.7 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P06NBMU-ER5)	2,615.07	252.78
23 81 26 16-0042	EA	8 MBH Cooling, 9 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P08NBMU-ER5)	2,752.53	272.22
23 81 26 16-0043	EA	12 MBH Cooling, 13.5 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P12NBMU-ER5)	2,959.00	291.67
23 81 26 16-0044	EA	15 MBH Cooling, 17 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P15NBMU-ER5)	3,116.17	311.11
23 81 26 16-0045	EA	8 MBH Cooling, 9 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P08NCMU-ER4)	2,437.09	272.22
23 81 26 16-0046	EA	12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P12NCMU-ER4)	2,564.70	291.67
23 81 26 16-0047	EA	15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P15NCMU-ER4)	2,697.23	311.11
23 81 26 16-0048	Controllers For Outdoor Units <small>(23 81 26 16-0001)</small>			
23 81 26 16-0049	EA	8 Branch (Main BC) (Mitsubishi CMB-P108NU-HA1)	8,951.00	212.12
23 81 26 16-0050	EA	10 Branch (Main BC) (Mitsubishi CMB-P1010NU-HA1)	10,352.46	247.48
23 81 26 16-0051	EA	13 Branch (Main BC) (Mitsubishi CMB-P1013NU-GA)	11,443.42	282.83
23 81 26 16-0052	EA	16 Branch (Main BC) (Mitsubishi CMB-P1016NU-HA)	13,574.35	318.18
23 81 26 16-0053	EA	4 Branch (Sub BC) (Mitsubishi CMB-P104NU-GB)	4,999.65	141.41
23 81 26 16-0054	EA	8 Branch (Sub BC) (Mitsubishi CMB-P108NU-GB)	7,699.09	212.12
23 81 26 16-0055	EA	16 Branch (Sub BC) (Mitsubishi CMB-P1016NU-HB)	11,765.49	318.18
23 81 26 16-0056	Energy Recovery Units <small>(23 81 26 16-0001)</small>			
23 81 26 16-0057	EA	36.2 MBH Cooling, 39.9 MBH Heating Hydronic Heat Exchanger Auxiliary Unit (Mitsubishi PWFY-P36NMU-E2-AU)	6,358.47	212.12
23 81 26 16-0058	EA	39.9 MBH Hydronic Heat Exchanger Booster Unit (Mitsubishi PWFY-P36NMU-E-BU)	11,957.54	212.12
23 81 26 16-0059	EA	112 MBH Cooling, 61.4 MBH Heating Reheat Unit (Mitsubishi PEFY-AF1200CFMR)	12,141.60	247.48
23 81 26 16-0060	EA	Lossnay Energy Recovery Ventilator ERV, 300 CFM (Mitsubishi LGH-F300RX5-E)	2,571.47	176.77
23 81 26 16-0061	EA	Lossnay Energy Recovery Ventilator ERV, 470 CFM (Mitsubishi LGH-F470RX5-E)	3,260.86	183.84
23 81 26 16-0062	EA	Lossnay Energy Recovery Ventilator ERV, 600 CFM (Mitsubishi LGH-F600RX5-E)	3,876.31	190.91



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 81 26 16-0063	EA		Lossnay Energy Recovery Ventilator ERV, 1,200 CFM (Mitsubishi LGH-F1200RX5-E1) .....	7,014.00	212.12
<b>23 81 26 16-0064</b>	<b>Piping Specialties (23 81 26 16-0001)</b>					
	23 81 26 16-0065	EA		Maintenance Tool Interface (Mitsubishi CMS-MNG-E) .....	877.32	
	23 81 26 16-0066	EA		Branch Joint (Mitsubishi CMY-Y102SS-G2) .....	262.71	58.19
	23 81 26 16-0067	EA		Branch Joint (Mitsubishi CMY-Y102LS-G2) .....	262.71	58.19
	23 81 26 16-0068	EA		Branch Joint (Mitsubishi CMY-Y202S-G2) .....	290.08	61.26
	23 81 26 16-0069	EA		Branch Joint (Mitsubishi CMY-Y302S-G2) .....	359.60	68.91
	23 81 26 16-0070	EA		Header - 4 Branch (Mitsubishi CMY-Y64-G-E) .....	475.08	99.54
	23 81 26 16-0071	EA		Header - 8 Branch (Mitsubishi CMY-Y68-G-E) .....	822.01	199.07
	23 81 26 16-0072	EA		Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" (Mitsubishi BV38FFSI) .....	142.65	24.50
	23 81 26 16-0073	EA		Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" (Mitsubishi BV58FFSI) .....	163.98	33.68
<b>23 81 26 16-0074</b>	<b>Split System Air Conditioners (Daikin VRV) (23 81 26 16)</b>					
<b>23 81 26 16-0075</b>	<b>Heat Pump Outdoor Units (23 81 26 16-0074)</b>					
	23 81 26 16-0076	EA		6 Ton Heat Pump Outdoor Unit (Daikin) .....	25,549.95	742.43
	23 81 26 16-0077	EA		8 Ton Heat Pump Outdoor Unit (Daikin) .....	28,577.05	883.84
	23 81 26 16-0078	EA		10 Ton Heat Pump Outdoor Unit (Daikin) .....	31,885.96	1,060.61
	23 81 26 16-0079	EA		12 Ton Heat Pump Outdoor Unit (Daikin) .....	39,767.27	1,095.97
	23 81 26 16-0080	EA		14 Ton Heat Pump Outdoor Unit (Daikin) .....	53,207.82	1,166.67
	23 81 26 16-0081	EA		16 Ton Heat Pump Outdoor Unit (Daikin) .....	56,233.89	1,202.02
	23 81 26 16-0082	EA		18 Ton Heat Pump Outdoor Unit (Daikin) .....	59,119.58	1,272.73
	23 81 26 16-0083	EA		20 Ton Heat Pump Outdoor Unit (Daikin) .....	62,216.36	1,343.44
	23 81 26 16-0084	EA		22 Ton Heat Pump Outdoor Unit (Daikin) .....	80,512.15	1,414.15
	23 81 26 16-0085	EA		24 Ton Heat Pump Outdoor Unit (Daikin) .....	83,608.92	1,484.85
	23 81 26 16-0086	EA		26 Ton Heat Pump Outdoor Unit (Daikin) .....	86,705.70	1,555.57
	23 81 26 16-0087	EA		28 Ton Heat Pump Outdoor Unit (Daikin) .....	89,591.39	1,626.27
	23 81 26 16-0088	EA		30 Ton Heat Pump Outdoor Unit (Daikin) .....	92,688.16	1,696.98
<b>23 81 26 16-0089</b>	<b>Heat Recovery Heat Pump Outdoor Units (23 81 26 16-0074)</b>					
	23 81 26 16-0090	EA		6 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	32,724.64	965.15
	23 81 26 16-0091	EA		8 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	35,719.09	1,148.99
	23 81 26 16-0092	EA		10 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	39,277.44	1,378.80
	23 81 26 16-0093	EA		12 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	49,290.94	1,424.75
	23 81 26 16-0094	EA		14 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	66,573.67	1,516.67
	23 81 26 16-0095	EA		16 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	71,731.93	1,562.64
	23 81 26 16-0096	EA		18 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	74,448.94	1,654.55
	23 81 26 16-0097	EA		20 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	77,165.94	1,746.47
	23 81 26 16-0098	EA		22 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	101,520.43	1,838.39
	23 81 26 16-0099	EA		24 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	104,237.45	1,930.31
	23 81 26 16-0100	EA		26 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	109,487.62	2,022.23
	23 81 26 16-0101	EA		28 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin) .....	112,204.63	2,114.15
<b>23 81 26 16-0102</b>	<b>Indoor Units (23 81 26 16-0074)</b>					
	23 81 26 16-0103	EA		7.5 MBH Cooling, 8.5 MBH Heating Wall Mounted Indoor Unit (Daikin) .....	2,964.39	247.48
	23 81 26 16-0104	EA		9.5 MBH Cooling, 10.5 MBH Heating Wall Mounted Indoor Unit (Daikin) .....	3,096.04	254.55
	23 81 26 16-0105	EA		12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Daikin) .....	3,497.62	265.15
	23 81 26 16-0106	EA		18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Daikin) .....	3,929.79	335.86
	23 81 26 16-0107	EA		24 MBH Cooling, 26.5 MBH Heating Wall Mounted Indoor Unit (Daikin) .....	4,322.14	406.56
	23 81 26 16-0108	EA		7.5 MBH Cooling, 8.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....	4,320.31	272.22
	23 81 26 16-0109	EA		9.5 MBH Cooling, 10.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....	4,465.30	280.00
	23 81 26 16-0110	EA		12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....	4,689.78	155.56
	23 81 26 16-0111	EA		18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....	4,994.70	369.44
	23 81 26 16-0112	EA		24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....	5,920.96	447.23
	23 81 26 16-0113	EA		30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....	6,765.45	486.12
	23 81 26 16-0114	EA		36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....	7,233.10	534.72
	23 81 26 16-0115	EA		48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin) .....	7,489.41	588.20
	23 81 26 16-0116	EA		7.5 MBH Cooling, 8.7 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin) .....	4,826.14	272.22
	23 81 26 16-0117	EA		9.5 MBH Cooling, 11.1 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin) .....	4,941.27	280.00
	23 81 26 16-0118	EA		12 MBH Cooling, 14 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin) .....	5,253.37	291.67
	23 81 26 16-0119	EA		18 MBH Cooling, 21 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin) .....	5,618.04	369.44
<b>23 81 26 16-0120</b>	<b>Branch Selector Boxes (23 81 26 16-0074)</b>					
	23 81 26 16-0121	EA		144 MBH, 4 Branch, Multi Port Branch Selector Box (Daikin) .....	14,568.79	318.18
	23 81 26 16-0122	EA		216 MBH, 6 Branch, Multi Port Branch Selector Box (Daikin) .....	21,536.04	424.25
	23 81 26 16-0123	EA		36 MBH, 4 Branch, Single Port Branch Selector Box (Daikin) .....	2,891.68	141.41
	23 81 26 16-0124	EA		60 MBH, 8 Branch, Single Port Branch Selector Box (Daikin) .....	3,903.37	212.12
	23 81 26 16-0125	EA		96 MBH, 8 Branch, Single Port Branch Selector Box (Daikin) .....	4,858.31	318.18
<b>23 81 26 16-0126</b>	<b>Controllers (23 81 26 16-0074)</b>					
	23 81 26 16-0127	EA		Up To 16 Units, Navigation Controller (Daikin) .....	930.06	28.28
	23 81 26 16-0128	EA		Individual Zone Controller (Daikin) .....	683.12	28.28
	23 81 26 16-0129	EA		Up To 16 Groups, Unified ON/OFF Controller (Daikin) .....	1,286.54	28.28

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 81 Decentralized Unitary HVAC Equipment**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 16-0130	EA		Up To 64 Units, Multizone Controller (Daikin).....	1,786.40	28.28
23 81 26 16-0131	EA		I-Touch Manager Replaced Both Daikin IMP-128 thru 1024 and DCS601C71 (Daikin).....	16,736.91	339.39
23 81 26 16-0132	EA		I-Touch Manager D3net Plus Adapter (Daikin).....	3,070.91	28.28
23 81 26 16-0133	EA		24 Volt AC, Wired Thermostat For Split A/C Systems (Daikin).....	680.48	49.92
<b>23 81 26 16-0134</b>			<b>Energy Recovery Units <small>(23 81 26 16-0074)</small></b>		
23 81 26 16-0135	EA		300 CFM Energy Recovery Unit (Daikin).....	5,051.44	176.77
23 81 26 16-0136	EA		470 CFM Energy Recovery Unit (Daikin).....	6,543.28	183.84
23 81 26 16-0137	EA		600 CFM Energy Recovery Unit (Daikin).....	7,824.00	190.91
23 81 26 16-0138	EA		1,200 CFM Energy Recovery Unit (Daikin).....	14,567.78	212.12
<b>23 81 43</b>			<b>Air-Source Unitary Heat Pumps <small>(23 81)</small></b>		
<b>23 81 43 00-0001</b>			<b>Single Package Thru-Wall Heat Pumps <small>(23 81 43)</small></b>		
<p>Note: Air-to-air type with electric heat. Includes throwaway filters. Through the wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls all mounted in a steel cabinet, wall sleeve and outdoor grille. Excludes crane and associated personnel. See CSI section 01 22 23 00-0883 for crane lifting equipment.</p>					
23 81 43 00-0002	EA		1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	2,159.37	230.10
			<i>For Unit Economizer, Add</i>	284.52	
			<i>For &gt;35 To 70, Deduct</i>	-51.44	
			<i>For &gt;70 To 100, Deduct</i>	-85.73	
			<i>For &gt;100, Deduct</i>	-120.02	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	265.52	
23 81 43 00-0003	EA		1 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	2,380.54	245.44
			<i>For Unit Economizer, Add</i>	314.25	
			<i>For &gt;35 To 70, Deduct</i>	-57.15	
			<i>For &gt;70 To 100, Deduct</i>	-95.25	
			<i>For &gt;100, Deduct</i>	-133.35	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	290.34	
23 81 43 00-0004	EA		1-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	3,980.74	245.44
			<i>For Unit Economizer, Add</i>	538.28	
			<i>For &gt;35 To 70, Deduct</i>	-105.16	
			<i>For &gt;70 To 100, Deduct</i>	-175.26	
			<i>For &gt;100, Deduct</i>	-245.36	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	434.35	
23 81 43 00-0005	EA		2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,354.32	245.44
			<i>For Unit Economizer, Add</i>	589.36	
			<i>For &gt;35 To 70, Deduct</i>	-115.44	
			<i>For &gt;70 To 100, Deduct</i>	-192.41	
			<i>For &gt;100, Deduct</i>	-269.37	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	242.00	
23 81 43 00-0006	EA		2-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,918.41	260.78
			<i>For Unit Economizer, Add</i>	667.10	
			<i>For &gt;35 To 70, Deduct</i>	-131.45	
			<i>For &gt;70 To 100, Deduct</i>	-219.08	
			<i>For &gt;100, Deduct</i>	-306.71	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	265.67	
23 81 43 00-0007	EA		3 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	5,147.01	276.12
			<i>For Unit Economizer, Add</i>	699.11	
			<i>For &gt;35 To 70, Deduct</i>	-138.30	
			<i>For &gt;70 To 100, Deduct</i>	-230.51	
			<i>For &gt;100, Deduct</i>	-322.71	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	733.54	
23 81 43 00-0008	EA		3-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	5,787.29	276.12
			<i>For Unit Economizer, Add</i>	787.52	
			<i>For &gt;35 To 70, Deduct</i>	-156.59	
			<i>For &gt;70 To 100, Deduct</i>	-260.99	
			<i>For &gt;100, Deduct</i>	-365.38	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	820.46	
23 81 43 00-0009	EA		4 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	6,374.13	291.46
			<i>For Unit Economizer, Add</i>	869.06	
			<i>For &gt;35 To 70, Deduct</i>	-173.74	
			<i>For &gt;70 To 100, Deduct</i>	-289.56	
			<i>For &gt;100, Deduct</i>	-405.38	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	898.59	
23 81 43 00-0010	EA		5 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	7,342.47	337.49
			<i>For Unit Economizer, Add</i>	1,000.95	
			<i>For &gt;35 To 70, Deduct</i>	-200.03	
			<i>For &gt;70 To 100, Deduct</i>	-333.38	
			<i>For &gt;100, Deduct</i>	-466.73	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,035.52	
23 81 43 00-0011	EA		7-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	13,347.95	398.84
			<i>For Unit Economizer, Add</i>	1,836.19	
			<i>For &gt;35 To 70, Deduct</i>	-376.05	
			<i>For &gt;70 To 100, Deduct</i>	-626.75	
			<i>For &gt;100, Deduct</i>	-877.44	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,832.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0012 EA 10 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	17,182.21	506.22
For Unit Economizer, Add	2,364.40	
For >35 To 70, Deduct	-484.63	
For >70 To 100, Deduct	-807.72	
For >100, Deduct	-1,130.81	
For Low Ambient Protection, 0 Degree F, Add	418.49	
23 81 43 00-0013 EA 12-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat .....	20,947.19	567.58
For Unit Economizer, Add	2,887.20	
For >35 To 70, Deduct	-594.36	
For >70 To 100, Deduct	-990.60	
For >100, Deduct	-1,386.84	
For Low Ambient Protection, 0 Degree F, Add	481.91	
23 81 43 00-0014 EA 15 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	25,809.66	644.28
For Unit Economizer, Add	3,562.42	
For >35 To 70, Deduct	-736.09	
For >70 To 100, Deduct	-1,226.82	
For >100, Deduct	-1,717.55	
For Low Ambient Protection, 0 Degree F, Add	563.67	
23 81 43 00-0015 EA 20 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	34,299.05	690.30
For Unit Economizer, Add	4,746.64	
For >35 To 70, Deduct	-987.55	
For >70 To 100, Deduct	-1,645.92	
For >100, Deduct	-2,304.29	
For Low Ambient Protection, 0 Degree F, Add	674.34	
23 81 43 00-0016 EA 25 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	41,279.78	751.66
For Unit Economizer, Add	5,719.04	
For >35 To 70, Deduct	-1,193.29	
For >70 To 100, Deduct	-1,988.82	
For >100, Deduct	-2,784.35	
For Low Ambient Protection, 0 Degree F, Add	773.60	
<b>23 81 43 00-0017 Single Package Vertical Wall Heat Pumps</b> <small>(23 81 43)</small>		
Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0883 for crane lifting equipment.		
23 81 43 00-0018 EA 1/2 Ton Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....	3,307.94	306.80
23 81 43 00-0019 EA 1 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....	3,986.53	337.49
23 81 43 00-0020 EA 1-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....	5,111.48	352.82
23 81 43 00-0021 EA 2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....	5,849.56	383.50
23 81 43 00-0022 EA 2-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....	7,296.90	444.87
23 81 43 00-0023 EA 3 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....	7,807.42	506.22
23 81 43 00-0024 EA 3-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....	8,492.62	567.58
23 81 43 00-0025 EA 4 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....	9,551.21	628.94
23 81 43 00-0026 EA 5 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat .....	10,790.14	751.66
<b>23 81 43 00-0027 Heat Pump, Room Air-Conditioners</b> <small>(23 81 43)</small>		
Note: Includes throwaway filters and supplemental heat.		
<b>23 81 43 00-0028 Heat Pump, Window Unit, Room Air-Conditioners</b> <small>(23 81 43 00-0027)</small>		
<b>23 81 43 00-0029 Heat Pump, Window Unit, Room Air-Conditioners (Friedrich)</b> <small>(23 81 43 00-0028)</small>		
23 81 43 00-0030 EA 10,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS10N10C) .....	2,545.92	148.49
For >10 To 50, Deduct	-112.45	
For >50 To 75, Deduct	-157.43	
For >75 To 100, Deduct	-224.90	
For >100, Deduct	-269.87	
23 81 43 00-0031 EA 12,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS12N33C) .....	2,870.03	148.49
For >10 To 50, Deduct	-128.65	
For >50 To 75, Deduct	-180.11	
For >75 To 100, Deduct	-257.31	
For >100, Deduct	-308.77	
23 81 43 00-0032 EA 17,500 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich KHM18A34A).....	3,356.19	148.49
For >10 To 50, Deduct	-152.96	
For >50 To 75, Deduct	-214.15	
For >75 To 100, Deduct	-305.92	
For >100, Deduct	-367.11	
23 81 43 00-0033 EA 24,000 BTU, 10.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YL24N35D).....	3,896.37	148.49
For >10 To 50, Deduct	-179.97	
For >50 To 75, Deduct	-251.96	
For >75 To 100, Deduct	-359.94	
For >100, Deduct	-431.93	
<b>23 81 43 00-0034 Heat Pump, Through-The-Wall, Room Air-Conditioners</b> <small>(23 81 43 00-0027)</small>		
Note: Base unit excludes wall sleeve.		
<b>23 81 43 00-0035 Heat Pump, Through-The-Wall, Room Air-Conditioners (Friedrich)</b> <small>(23 81 43 00-0034)</small>		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 81 Decentralized Unitary HVAC Equipment**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0036	EA		9,300 BTU, 9.8 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY09C33D).....	2,551.10	106.06
			<i>For &gt;10 To 50, Deduct</i>	-116.95	
			<i>For &gt;50 To 75, Deduct</i>	-163.73	
			<i>For &gt;75 To 100, Deduct</i>	-233.90	
			<i>For &gt;100, Deduct</i>	-280.68	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	305.54	
23 81 43 00-0037	EA		11,300 BTU, 9.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY12D33A).....	2,551.10	106.06
			<i>For &gt;10 To 50, Deduct</i>	-116.95	
			<i>For &gt;50 To 75, Deduct</i>	-163.73	
			<i>For &gt;75 To 100, Deduct</i>	-233.90	
			<i>For &gt;100, Deduct</i>	-280.68	
			<i>For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add</i>	305.54	

**23 81 46 Water-Source Unitary Heat Pumps (23 81)**

**23 81 46 00-0001 Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pumps (23 81 46)**

Note: R410a. Includes rubber isolator hanger brackets. McQuay CCW Series.

23 81 46 00-0002	EA		7 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	3,578.69	306.36
23 81 46 00-0003	EA		9 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	3,687.65	306.36
23 81 46 00-0004	EA		12 MBH, 400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	4,254.96	336.99
23 81 46 00-0005	EA		19 MBH, 630 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	4,488.13	367.63
23 81 46 00-0006	EA		24 MBH, 800 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	4,815.74	398.26
23 81 46 00-0007	EA		30 MBH, 1,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	5,651.79	428.90
23 81 46 00-0008	EA		36 MBH, 1,200 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	5,785.70	459.53
23 81 46 00-0009	EA		42 MBH, 1,400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	6,307.00	490.17
23 81 46 00-0010	EA		48 MBH, 1,600 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	6,731.45	520.81
23 81 46 00-0011	EA		60 MBH, 2,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump.....	6,853.25	551.44

**23 81 49 Split System Heat Pumps (23 81)**

**23 81 49 00-0001 Air Cooled, Outdoor Section (23 81 49)**

Note: Includes 20' length of piping (liquid line and insulated suction line). Excludes additional piping.

23 81 49 00-0002	EA		1.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	4,270.40	455.60
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	781.19	
			<i>For Winterstart Control, Add</i>	212.23	
			<i>For 15 SEER, Add</i>	644.42	
			<i>For 16 SEER, Add</i>	1,038.23	
			<i>For 18 SEER, Add</i>	1,575.24	
23 81 49 00-0003	EA		2 Ton, 14 SEER, Outdoor Heat Pump Unit.....	4,416.89	506.22
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	812.23	
			<i>For Winterstart Control, Add</i>	222.70	
			<i>For 15 SEER, Add</i>	656.98	
			<i>For 16 SEER, Add</i>	1,058.47	
			<i>For 18 SEER, Add</i>	1,605.95	
23 81 49 00-0004	EA		2.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	4,837.94	587.53
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	893.63	
			<i>For Winterstart Control, Add</i>	246.90	
			<i>For 15 SEER, Add</i>	710.68	
			<i>For 16 SEER, Add</i>	1,144.98	
			<i>For 18 SEER, Add</i>	1,737.22	
23 81 49 00-0005	EA		3 Ton, 14 SEER, Outdoor Heat Pump Unit.....	5,293.35	674.96
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	768.16	
			<i>For Winterstart Control, Add</i>	273.10	
			<i>For 15 SEER, Add</i>	768.71	
			<i>For 16 SEER, Add</i>	1,238.48	
			<i>For 18 SEER, Add</i>	1,879.08	
23 81 49 00-0006	EA		3.5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	5,462.53	701.04
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	793.56	
			<i>For Winterstart Control, Add</i>	282.22	
			<i>For 15 SEER, Add</i>	792.10	
			<i>For 16 SEER, Add</i>	1,276.16	
			<i>For 18 SEER, Add</i>	1,936.24	
23 81 49 00-0007	EA		4 Ton, 14 SEER, Outdoor Heat Pump Unit.....	6,061.12	805.36
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	876.90	
			<i>For Winterstart Control, Add</i>	311.47	
			<i>For 15 SEER, Add</i>	883.91	
			<i>For 16 SEER, Add</i>	1,424.08	
			<i>For 18 SEER, Add</i>	2,160.67	
23 81 49 00-0008	EA		5 Ton, 14 SEER, Outdoor Heat Pump Unit.....	6,890.75	885.89
			Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	597.65	
			<i>For Winterstart Control, Add</i>	182.81	
			<i>For 15 SEER, Add</i>	1,012.54	
			<i>For 16 SEER, Add</i>	1,631.31	
			<i>For 18 SEER, Add</i>	2,475.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0009 EA 7.5 Ton, 11.5 EER, Outdoor Heat Pump Unit.....	7,310.49	989.91
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For Low Ambient Protection, 0 Degree F, Add	648.35	
For Winterstart Control, Add	200.38	
23 81 49 00-0010 EA 10 Ton, 11.1 EER, Outdoor Heat Pump Unit.....	10,046.92	1,187.88
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For Low Ambient Protection, 0 Degree F, Add	505.53	
For Winterstart Control, Add	253.44	
23 81 49 00-0011 EA 15 Ton, 10.9 EER, Outdoor Heat Pump Unit.....	13,148.30	1,385.87
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For Low Ambient Protection, 0 Degree F, Add	574.37	
For Winterstart Control, Add	309.24	
23 81 49 00-0012 EA 20 Ton, 10.3 EER, Outdoor Heat Pump Unit.....	23,260.67	1,484.85
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
For Low Ambient Protection, 0 Degree F, Add	610.80	
For Winterstart Control, Add	423.48	
<b>23 81 49 00-0013 Indoor Section, Horizontal Upflow (23 81 49)</b>		
Note: Electric heat. Includes throwaway filters.		
23 81 49 00-0014 EA 2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....	1,279.85	151.31
For Additional 5 KW Electric Heat, Add	112.78	
23 81 49 00-0015 EA 2-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....	1,421.81	188.50
For Additional 5 KW Electric Heat, Add	123.33	
23 81 49 00-0016 EA 3 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....	1,500.88	227.68
For Additional 5 KW Electric Heat, Add	127.28	
23 81 49 00-0017 EA 3-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat.....	2,001.66	266.57
For Additional 5 KW Electric Heat, Add	173.48	
23 81 49 00-0018 EA 4 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat.....	2,069.79	300.51
For Additional 5 KW Electric Heat, Add	176.89	
23 81 49 00-0019 EA 5 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat.....	2,301.73	345.05
For Additional 5 KW Electric Heat, Add	195.68	
23 81 49 00-0020 EA 7-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat.....	4,822.27	565.66
For Additional 5 KW Electric Heat, Add	425.66	
23 81 49 00-0021 EA 10 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat.....	7,006.07	636.36
For Additional 5 KW Electric Heat, Add	636.98	
23 81 49 00-0022 EA 15 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15KW Electric Heat.....	9,731.52	707.07
For Additional 5 KW Electric Heat, Add	902.44	
23 81 49 00-0023 EA 20 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat.....	11,084.12	848.49
For Additional 5 KW Electric Heat, Add	1,023.55	
<b>23 81 49 00-0024 Ductless Split System Heat Pumps (23 81 49)</b>		
Note: Excludes refrigerant piping, electrical, and pad. Sanyo units or equal. See CSI section 23 81 26 13-0030 for accessories.		
<b>23 81 49 00-0025 Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0024)</b>		
23 81 49 00-0026 EA 9,000 BTU Cooling, 12,200 BTU Heating, 16 SEER, Wall Mounted Ductless Split System Heat Pumps.....	2,566.88	466.67
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0027 EA 11,900 BTU Cooling, 13,300 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps.....	2,837.22	509.10
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0028 EA 17,500 BTU Cooling, 20,400 BTU Heating, 20 SEER, Wall Mounted Ductless Split System Heat Pumps.....	3,439.17	565.66
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0029 EA 24,200 BTU Cooling, 29,000 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps.....	3,948.66	622.22
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0030 EA 25,200 BTU Cooling, 29,200 BTU Heating, 14.9 SEER, Wall Mounted Ductless Split System Heat Pumps.....	5,496.82	678.79
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0031 EA 29,800 BTU Cooling, 34,800 BTU Heating, 15 SEER, Wall Mounted Ductless Split System Heat Pumps.....	6,327.92	707.07
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 49 00-0032 EA 31,400 BTU Cooling, 36,400 BTU Heating, 15.9 SEER, Wall Mounted Ductless Split System Heat Pumps.....	6,930.43	753.74
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
<b>23 81 49 00-0033 Dual and Tri Zone Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0024)</b>		
Note: Use this section only when matching indoor and outdoor capacity units are not used.		
23 81 49 00-0034 EA 7,500 BTU Cooling, 8,500 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,079.93	226.27
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0035 EA 9,000 BTU Cooling, 12,200 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,142.22	240.41
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0036 EA 11,900 BTU Cooling, 14,300 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,205.41	254.55
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0037 EA 17,500 BTU Cooling, 20,400 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,362.85	268.69
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0038 EA 24,200 BTU Cooling, 29,000 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	1,452.06	282.83
Note: Includes indoor unit and wireless thermostat.		
23 81 49 00-0039 EA 19,700 BTU Cooling, 24,800 BTU Heating, 16.4 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	3,085.51	339.39
Note: Includes outdoor unit and refrigerant charge.		
23 81 49 00-0040 EA 23,200 BTU Cooling, 29,200 BTU Heating, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	3,641.00	367.68
Note: Includes outdoor unit and refrigerant charge.		
23 81 49 00-0041 EA 30,600 BTU Cooling, 32,000 BTU Heating, 17.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps.....	5,800.72	395.96
Note: Includes outdoor unit and refrigerant charge.		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 81 Decentralized Unitary HVAC Equipment**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 81 49 00-0042			<b>Suspended Ceiling Mounted Ductless Split System Heat Pumps</b> (23 81 49 00-0024) Note: Excludes hangers.		
23 81 49 00-0043	EA		24,400 BTU Cooling, 30,800 BTU Heating, 14.5 SEER, Ceiling Suspended Ductless Split System Heat Pumps ..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,850.53	678.79
23 81 49 00-0044	EA		31,200 BTU Cooling, 37,400 BTU Heating, 15.1 SEER, Ceiling Suspended Ductless Split System Heat Pumps ..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,103.98	810.30
23 81 49 00-0045	EA		39,000 BTU Cooling, 44,500 BTU Heating, 15.6 SEER, Ceiling Suspended Ductless Split System Heat Pumps ..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	8,505.64	848.49
23 81 49 00-0046			<b>Recessed Ceiling Mounted Ductless Split System Heat Pumps</b> (23 81 49 00-0024) Note: Excludes hangers.		
23 81 49 00-0047	EA		11,900 BTU Cooling, 13,600 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,932.03	565.66
23 81 49 00-0048	EA		17,500 BTU Cooling, 20,400 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,454.08	622.22
23 81 49 00-0049	EA		24,800 BTU Cooling, 29,800 BTU Heating, 14.1 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,857.29	735.36
23 81 49 00-0050	EA		32,600 BTU Cooling, 37,600 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,744.89	810.30
23 81 49 00-0051	EA		39,500 BTU Cooling, 48,000 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	8,326.10	848.49

**23 82 Convection Heating and Cooling Units** (23 80)

**23 82 16 Air Coils** (23 82)

**23 82 16 11 Hydronic Air Coils** (23 82 16)

23 82 16 11-0001			<b>Chilled Water Cooling Coils</b> (23 82 16 11) Note: Flanged construction, 16 gauge galvanized steel casing.		
23 82 16 11-0002			<b>2 Row Chilled Water Cooling Coils</b> (23 82 16 11-0001)		
23 82 16 11-0003	EA		12" x 12" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,925.37	76.59
23 82 16 11-0004	EA		12" x 24" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,187.01	104.16
23 82 16 11-0005	EA		24" x 30" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,299.30	163.90
23 82 16 11-0006	EA		24" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,209.49	234.37
23 82 16 11-0007	EA		30" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,545.76	287.98
23 82 16 11-0008	EA		30" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,216.97	349.25
23 82 16 11-0009	EA		30" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,674.29	404.39
23 82 16 11-0010	EA		30" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	7,235.26	714.42
23 82 16 11-0011	EA		34" x 32" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,427.85	271.59
23 82 16 11-0012	EA		34" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,721.46	462.45
23 82 16 11-0013	EA		34" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,405.92	574.42
23 82 16 11-0014	EA		34" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	7,062.60	693.74
23 82 16 11-0015	EA		34" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	7,728.97	807.86
23 82 16 11-0016	SF		>20 SF, Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	389.70	40.73
23 82 16 11-0017			<b>4 Row Chilled Water Cooling Coils</b> (23 82 16 11-0001)		
23 82 16 11-0018	EA		12" x 12" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,394.67	159.30
23 82 16 11-0019	EA		12" x 24" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,847.32	229.77
23 82 16 11-0020	EA		24" x 30" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,262.92	382.95
23 82 16 11-0021	EA		24" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,461.90	568.29
23 82 16 11-0022	EA		30" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	7,480.81	696.96
23 82 16 11-0023	EA		30" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	8,897.22	851.67
23 82 16 11-0024	EA		30" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	9,929.46	1,021.70
23 82 16 11-0025	EA		30" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	9,755.82	1,189.27





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0026 EA 34" x 32" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	6,076.74	513.29
23 82 16 11-0027 EA 34" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	7,779.57	772.01
23 82 16 11-0028 EA 34" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,642.31	957.36
23 82 16 11-0029 EA 34" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	9,684.59	1,153.44
23 82 16 11-0030 EA 34" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	10,643.92	1,348.42
<b>23 82 16 11-0031 6 Row Chilled Water Cooling Coils (23 82 16 11-0001)</b>		
23 82 16 11-0032 EA 12" x 12" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	3,378.06	202.20
23 82 16 11-0033 EA 12" x 24" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	3,990.76	300.23
23 82 16 11-0034 EA 24" x 30" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,449.03	511.62
23 82 16 11-0035 EA 24" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	7,412.51	765.89
23 82 16 11-0036 EA 30" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	9,732.64	957.36
23 82 16 11-0037 EA 30" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	11,073.89	1,177.94
23 82 16 11-0038 EA 30" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	12,886.06	1,392.39
23 82 16 11-0039 EA 30" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	12,325.08	1,622.62
23 82 16 11-0040 EA 34" x 32" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	7,618.17	701.41
23 82 16 11-0041 EA 34" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	9,778.43	1,052.03
23 82 16 11-0042 EA 34" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	11,032.35	1,317.33
23 82 16 11-0043 EA 34" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	12,245.03	1,582.49
23 82 16 11-0044 EA 34" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	13,463.18	1,841.05
<b>23 82 16 11-0045 8 Row Chilled Water Cooling Coils (23 82 16 11-0001)</b>		
23 82 16 11-0046 EA 12" x 12" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	4,222.27	243.56
23 82 16 11-0047 EA 12" x 24" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	5,175.05	373.75
23 82 16 11-0048 EA 24" x 30" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	7,731.59	666.32
23 82 16 11-0049 EA 24" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	10,275.39	1,021.70
23 82 16 11-0050 EA 30" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	12,342.65	1,277.51
23 82 16 11-0051 EA 30" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	14,340.72	1,531.78
23 82 16 11-0052 EA 30" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	16,479.93	1,701.81
23 82 16 11-0053 EA 30" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	14,162.63	1,974.01
23 82 16 11-0054 EA 34" x 32" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	8,701.99	854.74
23 82 16 11-0055 EA 34" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	11,203.74	1,285.01
23 82 16 11-0056 EA 34" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	12,658.13	1,600.71
23 82 16 11-0057 EA 34" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	14,044.66	1,914.73
23 82 16 11-0058 EA 34" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted	15,508.98	2,252.63
<b>23 82 16 11-0059 Hot Water Heating Coils (23 82 16 11)</b> Note: Flanged construction.		
<b>23 82 16 11-0060 1 Row Hot Water Heating Coils (23 82 16 11-0059)</b>		
23 82 16 11-0061 EA 12" x 12" Hot Water Heating Coil, 1 Row Flanged Construction	1,560.93	206.79
For 10 Fins Per Inch, Add	22.94	
For 12 Fins Per Inch, Add	57.35	
For 230 PSIG Heavy Duty, Add	353.59	
23 82 16 11-0062 EA 12" x 24" Hot Water Heating Coil, 1 Row Flanged Construction	2,300.74	264.99
For 10 Fins Per Inch, Add	35.45	
For 12 Fins Per Inch, Add	88.63	
For 230 PSIG Heavy Duty, Add	512.97	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 82 Convection Heating and Cooling Units**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0063	EA		24" x 30" Hot Water Heating Coil, 1 Row Flanged Construction.....	2,814.76	364.56
			<i>For 10 Fins Per Inch, Add</i>	41.71	
			<i>For 12 Fins Per Inch, Add</i>	104.27	
			<i>For 230 PSIG Heavy Duty, Add</i>	635.89	
23 82 16 11-0064	EA		24" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,367.20	511.62
			<i>For 10 Fins Per Inch, Add</i>	46.92	
			<i>For 12 Fins Per Inch, Add</i>	117.30	
			<i>For 230 PSIG Heavy Duty, Add</i>	775.56	
23 82 16 11-0065	EA		30" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	3,832.10	612.71
			<i>For 10 Fins Per Inch, Add</i>	52.13	
			<i>For 12 Fins Per Inch, Add</i>	130.33	
			<i>For 230 PSIG Heavy Duty, Add</i>	888.96	
23 82 16 11-0066	EA		30" x 60" Hot Water Heating Coil, 1 Row Flanged Construction.....	4,503.39	765.89
			<i>For 10 Fins Per Inch, Add</i>	59.43	
			<i>For 12 Fins Per Inch, Add</i>	148.58	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,053.86	
23 82 16 11-0067	EA		30" x 72" Hot Water Heating Coil, 1 Row Flanged Construction.....	5,038.53	850.14
			<i>For 10 Fins Per Inch, Add</i>	66.73	
			<i>For 12 Fins Per Inch, Add</i>	166.83	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,177.90	
23 82 16 11-0068	EA		30" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....	6,213.40	988.46
			<i>For 10 Fins Per Inch, Add</i>	84.58	
			<i>For 12 Fins Per Inch, Add</i>	211.46	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,441.10	
23 82 16 11-0069	EA		34" x 32" Hot Water Heating Coil, 1 Row Flanged Construction.....	2,682.67	428.29
			<i>For 10 Fins Per Inch, Add</i>	36.52	
			<i>For 12 Fins Per Inch, Add</i>	91.30	
			<i>For 230 PSIG Heavy Duty, Add</i>	622.20	
23 82 16 11-0070	EA		34" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	4,023.98	642.58
			<i>For 10 Fins Per Inch, Add</i>	54.78	
			<i>For 12 Fins Per Inch, Add</i>	136.95	
			<i>For 230 PSIG Heavy Duty, Add</i>	933.30	
23 82 16 11-0071	EA		34" x 72" Hot Water Heating Coil, 1 Row Flanged Construction.....	6,052.30	971.92
			<i>For 10 Fins Per Inch, Add</i>	82.17	
			<i>For 12 Fins Per Inch, Add</i>	205.42	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,404.85	
23 82 16 11-0072	EA		34" x 84" Hot Water Heating Coil, 1 Row Flanged Construction.....	7,045.74	1,126.32
			<i>For 10 Fins Per Inch, Add</i>	95.86	
			<i>For 12 Fins Per Inch, Add</i>	239.66	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,634.41	
23 82 16 11-0073	SF		>15 SF Hot Water Heating Coil, 1 Row, Flanged Construction.....	323.25	56.68
			<i>For 10 Fins Per Inch, Add</i>	4.20	
			<i>For 12 Fins Per Inch, Add</i>	10.49	
			<i>For 230 PSIG Heavy Duty, Add</i>	75.99	
<b>23 82 16 11-0074</b>			<b>2 Row Hot Water Heating Coils</b> <small>(23 82 16 11-0059)</small>		
23 82 16 11-0075	EA		12" x 12" Hot Water Heating Coil, 2 Row Flanged Construction.....	2,491.67	255.80
			<i>For 10 Fins Per Inch, Add</i>	39.62	
			<i>For 12 Fins Per Inch, Add</i>	99.05	
			<i>For 230 PSIG Heavy Duty, Add</i>	549.39	
23 82 16 11-0076	EA		12" x 24" Hot Water Heating Coil, 2 Row Flanged Construction.....	2,714.00	340.05
			<i>For 10 Fins Per Inch, Add</i>	40.66	
			<i>For 12 Fins Per Inch, Add</i>	101.66	
			<i>For 230 PSIG Heavy Duty, Add</i>	610.88	
23 82 16 11-0077	EA		24" x 30" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,680.00	511.62
			<i>For 10 Fins Per Inch, Add</i>	53.18	
			<i>For 12 Fins Per Inch, Add</i>	132.94	
			<i>For 230 PSIG Heavy Duty, Add</i>	838.12	
23 82 16 11-0078	EA		24" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	4,482.59	729.13
			<i>For 10 Fins Per Inch, Add</i>	60.48	
			<i>For 12 Fins Per Inch, Add</i>	151.19	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,042.40	
23 82 16 11-0079	EA		30" x 48" Hot Water Heating Coil, 2 Row Flanged Construction.....	5,190.77	900.69
			<i>For 10 Fins Per Inch, Add</i>	67.77	
			<i>For 12 Fins Per Inch, Add</i>	169.43	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,218.36	
23 82 16 11-0080	EA		30" x 60" Hot Water Heating Coil, 2 Row Flanged Construction.....	5,576.94	1,093.69
			<i>For 10 Fins Per Inch, Add</i>	67.77	
			<i>For 12 Fins Per Inch, Add</i>	169.43	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,334.21	
23 82 16 11-0081	EA		30" x 72" Hot Water Heating Coil, 2 Row Flanged Construction.....	6,306.59	1,277.51
			<i>For 10 Fins Per Inch, Add</i>	75.07	
			<i>For 12 Fins Per Inch, Add</i>	187.68	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,516.62	
23 82 16 11-0082	EA		30" x 84" Hot Water Heating Coil, 2 Row Flanged Construction.....	7,726.46	1,484.30
			<i>For 10 Fins Per Inch, Add</i>	95.16	
			<i>For 12 Fins Per Inch, Add</i>	237.89	
			<i>For 230 PSIG Heavy Duty, Add</i>	1,842.15	
23 82 16 11-0083	EA		34" x 32" Hot Water Heating Coil, 2 Row Flanged Construction.....	3,334.94	640.44
			<i>For 10 Fins Per Inch, Add</i>	41.08	
			<i>For 12 Fins Per Inch, Add</i>	102.71	
			<i>For 230 PSIG Heavy Duty, Add</i>	795.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0084 EA 34" x 48" Hot Water Heating Coil, 2 Row Flanged Construction..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i> <i>For 230 PSIG Heavy Duty, Add</i>	5,005.63 61.63 154.06 1,193.56	962.12
23 82 16 11-0085 EA 34" x 72" Hot Water Heating Coil, 2 Row Flanged Construction..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i> <i>For 230 PSIG Heavy Duty, Add</i>	7,523.02 92.44 231.10 1,794.71	1,450.59
23 82 16 11-0086 EA 34" x 84" Hot Water Heating Coil, 2 Row Flanged Construction..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i> <i>For 230 PSIG Heavy Duty, Add</i>	8,781.18 107.85 269.61 2,095.13	1,694.45
<b>23 82 16 11-0087 Hot Water Preheat Coils For Multi-Zone Air Handling Units</b> <small>(23 82 16 11)</small> Note: 2 Row coils. Coils are sized by air handling unit capacity.		
23 82 16 11-0088 EA 3,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,019.58	194.54
23 82 16 11-0089 EA 4,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	2,561.77	193.01
23 82 16 11-0090 EA 5,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,130.15	206.79
23 82 16 11-0091 EA 6,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,630.67	225.17
23 82 16 11-0092 EA 7,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	3,651.46	235.89
23 82 16 11-0093 EA 9,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	4,404.14	248.15
23 82 16 11-0094 EA 11,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	4,571.29	278.79
23 82 16 11-0095 EA 13,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	5,056.57	312.48
23 82 16 11-0096 EA 16,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	5,699.90	373.75
23 82 16 11-0097 EA 19,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	6,207.42	392.14
23 82 16 11-0098 EA 22,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	7,918.15	415.12
23 82 16 11-0099 EA 27,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	10,101.62	568.29
23 82 16 11-0100 EA 34,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	12,684.66	696.96
23 82 16 11-0101 EA 40,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	14,742.82	729.13
23 82 16 11-0102 EA 47,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit.....	17,315.98	850.14
<b>23 82 16 12 Steam Air Coils</b> <small>(23 82 16)</small>		
<b>23 82 16 12-0001 Steam Heating Coils</b> <small>(23 82 16 12)</small> Note: Flanged construction.		
23 82 16 12-0002 EA 12" x 12" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	2,353.44 763.29 2,005.87	143.99
23 82 16 12-0003 EA 12" x 24" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	2,612.64 863.36 2,261.19	199.13
23 82 16 12-0004 EA 24" x 30" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	3,444.03 1,175.70 3,061.58	356.91
23 82 16 12-0005 EA 24" x 48" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	4,343.37 1,507.25 3,913.81	511.62
23 82 16 12-0006 EA 30" x 48" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	4,842.90 1,697.95 4,401.25	612.71
23 82 16 12-0007 EA 30" x 60" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	5,444.57 1,939.73 5,014.32	765.89
23 82 16 12-0008 EA 30" x 72" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	5,983.90 2,135.57 5,518.97	850.14
23 82 16 12-0009 EA 30" x 84" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	7,411.67 2,620.34 6,782.53	992.13
23 82 16 12-0010 EA 34" x 32" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	3,200.02 1,131.35 2,928.40	428.29
23 82 16 12-0011 EA 34" x 48" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	4,800.03 1,697.02 4,392.60	642.58
23 82 16 12-0012 EA 34" x 72" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	7,196.78 2,543.90 6,584.89	962.12
23 82 16 12-0013 EA 34" x 84" Steam Heating Coils, 1 Row Flanged Construction..... <i>For 2 Row Coil, Add</i> <i>For 4 Row Coil, Add</i>	8,403.81 2,971.67 7,691.67	1,126.32
<b>23 82 16 13 Refrigerant Air Coils</b> <small>(23 82 16)</small>		
<b>23 82 16 13-0001 Direct Expansion Cooling Coils</b> <small>(23 82 16 13)</small> Note: Flanged construction 16 gauge galvanized steel casing.		
<b>23 82 16 13-0002 2 Row Direct Expansion Cooling Coils</b> <small>(23 82 16 13-0001)</small>		
23 82 16 13-0003 EA 12" x 12" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	1,849.80 32.39 80.97	114.88

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 82 Convection Heating and Cooling Units**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 13-0004 EA 12" x 24" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,554.74	157.78
For 10 Fins Per Inch, Add	64.78	
For 12 Fins Per Inch, Add	161.95	
23 82 16 13-0005 EA 24" x 30" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,903.53	248.15
For 10 Fins Per Inch, Add	88.19	
For 12 Fins Per Inch, Add	220.47	
23 82 16 13-0006 EA 24" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,923.58	356.91
For 10 Fins Per Inch, Add	104.22	
For 12 Fins Per Inch, Add	260.56	
23 82 16 13-0007 EA 30" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,888.13	436.55
For 10 Fins Per Inch, Add	120.26	
For 12 Fins Per Inch, Add	300.64	
23 82 16 13-0008 EA 30" x 60" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,710.60	528.47
For 10 Fins Per Inch, Add	133.08	
For 12 Fins Per Inch, Add	332.71	
23 82 16 13-0009 EA 30" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	8,841.68	612.71
For 10 Fins Per Inch, Add	152.33	
For 12 Fins Per Inch, Add	380.81	
23 82 16 13-0010 EA 30" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	11,082.86	714.42
For 10 Fins Per Inch, Add	193.08	
For 12 Fins Per Inch, Add	482.70	
23 82 16 13-0011 EA 34" x 32" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,254.74	271.59
For 10 Fins Per Inch, Add	74.23	
For 12 Fins Per Inch, Add	185.58	
23 82 16 13-0012 EA 34" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,507.68	462.45
For 10 Fins Per Inch, Add	91.65	
For 12 Fins Per Inch, Add	229.13	
23 82 16 13-0013 EA 34" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,809.70	693.74
For 10 Fins Per Inch, Add	108.44	
For 12 Fins Per Inch, Add	271.11	
23 82 16 13-0014 EA 34" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,456.37	807.86
For 10 Fins Per Inch, Add	116.81	
For 12 Fins Per Inch, Add	292.03	
<b>23 82 16 13-0015 4 Row Direct Expansion Cooling Coils (23 82 16 13-0001)</b>		
23 82 16 13-0016 EA 12" x 12" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,068.99	159.30
For 10 Fins Per Inch, Add	55.00	
For 12 Fins Per Inch, Add	137.49	
23 82 16 13-0017 EA 12" x 24" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,385.63	229.77
For 10 Fins Per Inch, Add	78.57	
For 12 Fins Per Inch, Add	196.42	
23 82 16 13-0018 EA 24" x 30" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,977.01	382.95
For 10 Fins Per Inch, Add	104.22	
For 12 Fins Per Inch, Add	260.56	
23 82 16 13-0019 EA 24" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	7,307.83	568.29
For 10 Fins Per Inch, Add	123.46	
For 12 Fins Per Inch, Add	308.66	
23 82 16 13-0020 EA 30" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	8,447.59	696.96
For 10 Fins Per Inch, Add	141.10	
For 12 Fins Per Inch, Add	352.75	
23 82 16 13-0021 EA 30" x 60" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	10,039.78	851.67
For 10 Fins Per Inch, Add	166.76	
For 12 Fins Per Inch, Add	416.89	
23 82 16 13-0022 EA 30" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	11,181.88	1,021.70
For 10 Fins Per Inch, Add	182.79	
For 12 Fins Per Inch, Add	456.98	
23 82 16 13-0023 EA 30" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	10,927.28	1,189.27
For 10 Fins Per Inch, Add	170.97	
For 12 Fins Per Inch, Add	427.44	
23 82 16 13-0024 EA 34" x 32" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,878.66	513.29
For 10 Fins Per Inch, Add	117.04	
For 12 Fins Per Inch, Add	292.60	
23 82 16 13-0025 EA 34" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	8,769.72	772.01
For 10 Fins Per Inch, Add	144.51	
For 12 Fins Per Inch, Add	361.28	
23 82 16 13-0026 EA 34" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	13,245.02	1,357.93
For 10 Fins Per Inch, Add	210.58	
For 12 Fins Per Inch, Add	526.46	
23 82 16 13-0027 EA 34" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	15,165.38	1,582.49
For 10 Fins Per Inch, Add	240.01	
For 12 Fins Per Inch, Add	600.03	
<b>23 82 16 13-0028 6 Row Direct Expansion Cooling Coils (23 82 16 13-0001)</b>		
23 82 16 13-0029 EA 12" x 12" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,930.63	200.66
For 10 Fins Per Inch, Add	70.55	
For 12 Fins Per Inch, Add	176.38	
23 82 16 13-0030 EA 12" x 24" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,529.07	300.23
For 10 Fins Per Inch, Add	78.57	
For 12 Fins Per Inch, Add	196.42	
23 82 16 13-0031 EA 24" x 30" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,553.00	511.62
For 10 Fins Per Inch, Add	110.64	
For 12 Fins Per Inch, Add	276.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 13-0032 EA 24" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	8,346.33 136.29 340.73	765.89
23 82 16 13-0033 EA 30" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	10,974.07 181.19 452.97	957.36
23 82 16 13-0034 EA 30" x 60" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	12,458.14 202.03 505.08	1,177.94
23 82 16 13-0035 EA 30" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	14,490.03 234.10 585.25	1,392.39
23 82 16 13-0036 EA 30" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	13,766.89 210.43 526.08	1,622.62
23 82 16 13-0037 EA 34" x 32" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	8,605.14 144.05 360.12	701.41
23 82 16 13-0038 EA 34" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	10,997.06 177.86 444.65	1,052.03
23 82 16 13-0039 EA 34" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	13,660.95 210.44 526.10	1,569.47
23 82 16 13-0040 EA 34" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	15,016.34 226.68 566.71	1,841.05

**23 82 16 13-0041 8 Row Direct Expansion Cooling Coils** (23 82 16 13-0001)

23 82 16 13-0042 EA 12" x 12" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	4,895.69 88.19 220.47	242.02
23 82 16 13-0043 EA 12" x 24" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	5,878.16 102.62 256.55	373.75
23 82 16 13-0044 EA 24" x 30" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	8,747.81 148.32 370.79	666.32
23 82 16 13-0045 EA 24" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	11,582.73 190.81 477.02	1,021.70
23 82 16 13-0046 EA 30" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	13,897.18 226.88 567.21	1,277.51
23 82 16 13-0047 EA 30" x 60" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	16,131.45 261.36 653.39	1,531.78
23 82 16 13-0048 EA 30" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	18,556.30 303.05 757.62	1,701.81
23 82 16 13-0049 EA 30" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	15,784.66 236.74 591.84	1,974.01
23 82 16 13-0050 EA 34" x 32" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	9,812.34 162.06 405.14	854.74
23 82 16 13-0051 EA 34" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	12,574.70 200.09 500.23	1,285.01
23 82 16 13-0052 EA 34" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	15,705.45 236.75 591.87	1,934.03
23 82 16 13-0053 EA 34" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing ..... <i>For 10 Fins Per Inch, Add</i> <i>For 12 Fins Per Inch, Add</i>	17,256.29 255.02 637.55	2,252.63

**23 82 16 14 Electric-Resistance Air Coils** (23 82 16)

**23 82 16 14-0001 Standard Electric Slip-In Blast Coil Heater** (23 82 16 14)

**23 82 16 14-0002 Electric Slip-In Blast Coil Heater With Open Coil Element** (23 82 16 14-0001)

23 82 16 14-0003 EA 1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	625.46	108.89
23 82 16 14-0004 EA 1 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	643.59	117.38
23 82 16 14-0005 EA 2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	665.01	128.68
23 82 16 14-0006 EA 3 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	672.22	132.93
23 82 16 14-0007 EA 4 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	690.73	141.41
23 82 16 14-0008 EA 5 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	712.02	152.73
23 82 16 14-0009 EA 6 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	819.42	171.11
23 82 16 14-0010 EA 7 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	836.67	179.59
23 82 16 14-0011 EA 8 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	850.81	185.25
23 82 16 14-0012 EA 9 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	871.48	196.57
23 82 16 14-0013 EA 10 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	952.86	207.88
23 82 16 14-0014 EA 12-1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	993.11	227.68

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 14-0015 EA 15 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,033.12	247.48
23 82 16 14-0016 EA 20 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,074.73	267.27
23 82 16 14-0017 EA 30 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,464.70	373.34
23 82 16 14-0018 EA 40 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,595.47	397.37
23 82 16 14-0019 EA 50 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	2,854.19	455.35
23 82 16 14-0020 EA 60 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,369.95	504.85
23 82 16 14-0021 EA 70 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,537.30	548.69
23 82 16 14-0022 EA 80 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	3,875.85	602.43
23 82 16 14-0023 EA 90 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	4,754.57	643.43
23 82 16 14-0024 EA 100 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	5,222.22	691.52
23 82 16 14-0025 EA 125 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	6,334.10	746.67
23 82 16 14-0026 EA 150 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	7,131.72	811.72
<b>23 82 16 14-0027 Electric Slip-In Blast Coil Heater With Finned Tubular Element (23 82 16 14-0001)</b>		
23 82 16 14-0028 EA 1 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,027.80	155.56
23 82 16 14-0029 EA 2 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,060.92	169.70
23 82 16 14-0030 EA 3 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,072.81	169.70
23 82 16 14-0031 EA 4 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,160.29	186.66
23 82 16 14-0032 EA 5 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,210.19	186.66
23 82 16 14-0033 EA 6 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,236.75	186.66
23 82 16 14-0034 EA 8 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,300.98	207.88
23 82 16 14-0035 EA 9 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,360.61	233.34
23 82 16 14-0036 EA 10 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,387.17	233.34
23 82 16 14-0037 EA 15 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,562.64	267.27
23 82 16 14-0038 EA 20 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	1,987.12	267.27
23 82 16 14-0039 EA 25 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,111.71	289.90
23 82 16 14-0040 EA 30 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,479.68	311.11
23 82 16 14-0041 EA 40 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	2,936.48	311.11
23 82 16 14-0042 EA 45 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	3,202.56	325.25
23 82 16 14-0043 EA 50 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater.....	3,360.94	325.25
<b>23 82 19 Fan Coil Units (23 82)</b>		
<b>23 82 19 00-0001 Ceiling Suspended Horizontal Fan Coil Units (23 82 19)</b>		
Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds. Excludes supports.		
<b>23 82 19 00-0002 Horizontal Fan Coil Units With Electric Heating Coil (23 82 19 00-0001)</b>		
23 82 19 00-0003 EA 200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,139.62	248.15
For 2-Way Valve Instead Of 3-Way, Deduct	-59.71	
23 82 19 00-0004 EA 300 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,438.16	289.51
For 2-Way Valve Instead Of 3-Way, Deduct	-63.90	
23 82 19 00-0005 EA 400 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	2,883.99	326.27
For 2-Way Valve Instead Of 3-Way, Deduct	-67.59	
23 82 19 00-0006 EA 600 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,314.20	373.75
For 2-Way Valve Instead Of 3-Way, Deduct	-72.36	
23 82 19 00-0007 EA 800 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,724.53	392.14
For 2-Way Valve Instead Of 3-Way, Deduct	-123.91	
23 82 19 00-0008 EA 1,000 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,734.27	415.12
For 2-Way Valve Instead Of 3-Way, Deduct	-127.10	
23 82 19 00-0009 EA 1,200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	5,551.38	450.34
For 2-Way Valve Instead Of 3-Way, Deduct	-132.58	
<b>23 82 19 00-0010 Horizontal Fan Coil Units With Hot Water Heating Coil (23 82 19 00-0001)</b>		
23 82 19 00-0011 EA 200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,054.68	248.15
For 2-Way Valve Instead Of 3-Way, Deduct	-59.71	
23 82 19 00-0012 EA 300 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	3,445.85	289.51
For 2-Way Valve Instead Of 3-Way, Deduct	-63.90	
23 82 19 00-0013 EA 400 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,236.60	326.27
For 2-Way Valve Instead Of 3-Way, Deduct	-67.59	
23 82 19 00-0014 EA 600 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,596.87	373.75
For 2-Way Valve Instead Of 3-Way, Deduct	-72.36	
23 82 19 00-0015 EA 800 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	4,900.07	393.67
For 2-Way Valve Instead Of 3-Way, Deduct	-123.91	
23 82 19 00-0016 EA 1,000 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	6,460.99	415.12
For 2-Way Valve Instead Of 3-Way, Deduct	-127.10	
23 82 19 00-0017 EA 1,200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	7,558.54	450.34
For 2-Way Valve Instead Of 3-Way, Deduct	-132.58	
23 82 19 00-0018 EA 1,400 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	8,051.93	467.19
For 2-Way Valve Instead Of 3-Way, Deduct	-135.08	
23 82 19 00-0019 EA 1,600 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	8,968.35	486.34
For 2-Way Valve Instead Of 3-Way, Deduct	-137.95	
23 82 19 00-0020 EA 1,800 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet.....	9,637.01	505.49
For 2-Way Valve Instead Of 3-Way, Deduct	-140.82	
<b>23 82 19 00-0021 Floor Mounted Vertical Fan Coil Units (23 82 19)</b>		
Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 82 19 00-0022 Vertical Fan Coil Units With Electric Heating Coil</b> <small>(23 82 19 00-0021)</small>		
23 82 19 00-0023 EA 200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,068.08	246.61
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-260.80	
<i>For Thru-Wall Sleeve, Add</i>	153.82	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-59.71	
23 82 19 00-0024 EA 300 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,366.62	289.51
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-297.19	
<i>For Thru-Wall Sleeve, Add</i>	170.61	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-63.90	
23 82 19 00-0025 EA 400 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,798.13	326.27
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-354.54	
<i>For Thru-Wall Sleeve, Add</i>	185.36	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-67.59	
23 82 19 00-0026 EA 600 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,215.46	373.75
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-407.60	
<i>For Thru-Wall Sleeve, Add</i>	204.44	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-72.36	
23 82 19 00-0027 EA 800 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,611.50	393.67
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-463.17	
<i>For Thru-Wall Sleeve, Add</i>	212.11	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-123.91	
23 82 19 00-0028 EA 1,000 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	4,584.03	415.12
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-604.81	
<i>For Thru-Wall Sleeve, Add</i>	220.60	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-127.10	
23 82 19 00-0029 EA 1,200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	5,372.52	450.34
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-715.77	
<i>For Thru-Wall Sleeve, Add</i>	235.21	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-132.58	
<b>23 82 19 00-0030 Vertical Fan Coil Units With Hot Water Heating Coil</b> <small>(23 82 19 00-0021)</small>		
23 82 19 00-0031 EA 200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	2,943.25	246.61
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-392.08	
<i>For Thru-Wall Sleeve, Add</i>	153.82	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-59.71	
23 82 19 00-0032 EA 300 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	3,321.05	289.51
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-440.35	
<i>For Thru-Wall Sleeve, Add</i>	170.61	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-63.90	
23 82 19 00-0033 EA 400 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	4,080.60	326.27
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-546.91	
<i>For Thru-Wall Sleeve, Add</i>	185.36	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-67.59	
23 82 19 00-0034 EA 600 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	4,665.82	373.75
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-625.15	
<i>For Thru-Wall Sleeve, Add</i>	204.44	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-72.36	
23 82 19 00-0035 EA 800 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	5,193.96	393.67
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-700.54	
<i>For Thru-Wall Sleeve, Add</i>	212.11	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-123.91	
23 82 19 00-0036 EA 1,000 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	6,216.08	415.12
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-849.61	
<i>For Thru-Wall Sleeve, Add</i>	220.60	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-127.10	
23 82 19 00-0037 EA 1,200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	7,268.79	450.34
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-1,000.21	
<i>For Thru-Wall Sleeve, Add</i>	235.21	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-132.58	
23 82 19 00-0038 EA 1,400 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	7,950.64	467.19
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-1,099.16	
<i>For Thru-Wall Sleeve, Add</i>	241.88	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-135.08	
23 82 19 00-0039 EA 1,600 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	8,765.76	486.34
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-1,217.60	
<i>For Thru-Wall Sleeve, Add</i>	249.54	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-137.95	
23 82 19 00-0040 EA 1,800 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet.....	9,341.66	486.34
<i>For Fan Coil Units Without Cabinet, Deduct</i>	-1,300.15	
<i>For Thru-Wall Sleeve, Add</i>	257.19	
<i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	-140.82	
<b>23 82 19 00-0041 Removal And Reinstallation Of Fan Coil Units</b> <small>(23 82 19)</small>		
Note: Includes storage and cleaning. Excludes supports.		
23 82 19 00-0042 EA Removal And Reinstallation Of Fan Coil Unit Horizontal Or Vertical.....	651.27	
<b>23 82 29 Radiators</b> <small>(23 82)</small>		
<b>23 82 29 00-0001 Demolish Cast Iron Radiators</b> <small>(23 82 29)</small>		
23 82 29 00-0002 LF Demolish Cast Iron Radiator.....	45.94	
23 82 29 00-0003 EA Cap Radiator.....	65.37	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 82 Convection Heating and Cooling Units**



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
23 82 29 00-0004		<b>Cast Iron Radiator</b> <small>(23 82 29)</small>		
23 82 29 00-0005	EA	19" High Cast Iron Radiator Section, Free Standing.....	73.87	
		<i>For Wall Support Bracket, Add</i>	32.88	
23 82 29 00-0006	EA	25" High Cast Iron Radiator Section, Free Standing.....	105.42	
		<i>For Wall Support Bracket, Add</i>	34.88	
23 82 29 00-0007	EA	30" High Cast Iron Radiator Section, Free Standing.....	122.89	
23 82 29 00-0008	EA	36" High Cast Iron Radiator Section, Free Standing.....	155.19	
23 82 29 00-0009	EA	20" High Cast Iron Radiator Section, Recessed With Grille.....	102.04	
23 82 29 00-0010		<b>Radiator Covers</b> <small>(23 82 29)</small>		
		Note: Includes field cutouts, vent grilles, and insulation backing. To calculate quantity, measure the surface area of front, top and sides.		
23 82 29 00-0011	SF	14 Gauge Stainless Steel Radiator Cover .....	134.96	7.68
23 82 29 00-0012	SF	Primed And Painted, Galvanized Steel Radiator Cover .....	85.13	7.68
23 82 29 00-0013		<b>Radiator Shields</b> <small>(23 82 29)</small>		
23 82 29 00-0014	SF	Stainless Steel Radiator Shield.....	71.07	7.68
23 82 29 00-0015	SF	Primed And Painted, Galvanized Steel Radiator Shield .....	50.81	7.68
23 82 29 00-0016		<b>Removal And Reinstallation Of Radiator</b> <small>(23 82 29)</small>		
		Note: Includes storage and cleaning.		
23 82 29 00-0017	LF	Removal And Reinstallation Of Cast Iron Radiator .....	114.88	
23 82 29 00-0018	LF	Removal And Reinstallation Of Electric Radiator .....	76.59	
<b>23 82 33</b>		<b>Convectors</b> <small>(23 82)</small>		
23 82 33 00-0001		<b>Multi-Fin Convectors For Two-Pipe System</b> <small>(23 82 33)</small>		
		Note: Complete with 6-1/4" deep cabinet enclosure.		
23 82 33 00-0002		<b>20" High Multi-Fin Convectors For Two-Pipe System</b> <small>(23 82 33 00-0001)</small>		
23 82 33 00-0003	EA	20" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	637.89	168.49
		<i>For Knob Operated Damper, Add</i>	15.00	
		<i>For Metal Trim Strips, Add</i>	82.59	
		<i>For Snap-On Inlet Grille, Add</i>	61.06	
		<i>For Access Doors Hinged, Add</i>	15.00	
		<i>For Air Chamber, Auto-vent, Add</i>	18.00	
		<i>For 3 Tubes System, Add</i>	133.91	
23 82 33 00-0004	EA	20" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	746.12	183.82
		<i>For Knob Operated Damper, Add</i>	15.00	
		<i>For Metal Trim Strips, Add</i>	89.55	
		<i>For Snap-On Inlet Grille, Add</i>	65.70	
		<i>For Access Doors Hinged, Add</i>	15.00	
		<i>For Air Chamber, Auto-vent, Add</i>	18.00	
		<i>For 3 Tubes System, Add</i>	163.66	
23 82 33 00-0005	EA	20" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	860.66	217.51
		<i>For Knob Operated Damper, Add</i>	15.00	
		<i>For Metal Trim Strips, Add</i>	104.78	
		<i>For Snap-On Inlet Grille, Add</i>	75.86	
		<i>For Access Doors Hinged, Add</i>	15.00	
		<i>For Air Chamber, Auto-vent, Add</i>	18.00	
		<i>For 3 Tubes System, Add</i>	185.98	
23 82 33 00-0006	EA	20" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,027.76	252.75
		<i>For Knob Operated Damper, Add</i>	15.00	
		<i>For Metal Trim Strips, Add</i>	120.87	
		<i>For Snap-On Inlet Grille, Add</i>	86.58	
		<i>For Access Doors Hinged, Add</i>	15.00	
		<i>For Air Chamber, Auto-vent, Add</i>	18.00	
		<i>For 3 Tubes System, Add</i>	225.70	
23 82 33 00-0007	EA	20" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,226.29	303.29
		<i>For Knob Operated Damper, Add</i>	15.00	
		<i>For Metal Trim Strips, Add</i>	143.83	
		<i>For Snap-On Inlet Grille, Add</i>	101.89	
		<i>For Access Doors Hinged, Add</i>	15.00	
		<i>For Air Chamber, Auto-vent, Add</i>	18.00	
		<i>For 3 Tubes System, Add</i>	268.40	
23 82 33 00-0008	EA	20" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,376.76	333.62
		<i>For Knob Operated Damper, Add</i>	15.00	
		<i>For Metal Trim Strips, Add</i>	157.60	
		<i>For Snap-On Inlet Grille, Add</i>	111.07	
		<i>For Access Doors Hinged, Add</i>	15.00	
		<i>For Air Chamber, Auto-vent, Add</i>	18.00	
		<i>For 3 Tubes System, Add</i>	305.00	
23 82 33 00-0009	EA	20" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,605.94	404.39
		<i>For Knob Operated Damper, Add</i>	15.00	
		<i>For Metal Trim Strips, Add</i>	189.76	
		<i>For Snap-On Inlet Grille, Add</i>	132.50	
		<i>For Access Doors Hinged, Add</i>	15.00	
		<i>For Air Chamber, Auto-vent, Add</i>	18.00	
		<i>For 3 Tubes System, Add</i>	347.70	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0010 EA 20" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,748.82	429.67
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	201.25	
<i>For Snap-On Inlet Grille, Add</i>	140.17	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	384.30	
23 82 33 00-0011 EA 20" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,912.48	480.21
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	224.20	
<i>For Snap-On Inlet Grille, Add</i>	155.47	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	414.80	
23 82 33 00-0012 EA 20" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,111.14	530.76
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	247.20	
<i>For Snap-On Inlet Grille, Add</i>	170.80	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	457.50	
23 82 33 00-0013 EA 20" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,274.82	581.31
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	270.16	
<i>For Snap-On Inlet Grille, Add</i>	186.11	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	488.00	
<b>23 82 33 00-0014 26" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)</b>		
23 82 33 00-0015 EA 26" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	757.52	221.65
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	105.72	
<i>For Snap-On Inlet Grille, Add</i>	76.48	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	148.79	
23 82 33 00-0016 EA 26" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	888.44	257.49
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	121.81	
<i>For Snap-On Inlet Grille, Add</i>	87.21	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	175.84	
23 82 33 00-0017 EA 26" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,071.53	302.38
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	141.96	
<i>For Snap-On Inlet Grille, Add</i>	100.64	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	216.42	
23 82 33 00-0018 EA 26" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,249.72	337.15
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	157.56	
<i>For Snap-On Inlet Grille, Add</i>	111.04	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	260.58	
23 82 33 00-0019 EA 26" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,453.55	379.12
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	176.45	
<i>For Snap-On Inlet Grille, Add</i>	123.63	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	309.88	
23 82 33 00-0020 EA 26" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,621.78	410.67
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	190.70	
<i>For Snap-On Inlet Grille, Add</i>	133.13	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	352.14	
23 82 33 00-0021 EA 26" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,849.62	467.96
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	216.80	
<i>For Snap-On Inlet Grille, Add</i>	150.53	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	401.44	
23 82 33 00-0022 EA 26" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,012.73	496.60
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	229.51	
<i>For Snap-On Inlet Grille, Add</i>	159.01	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	443.70	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 82 Convection Heating and Cooling Units**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0023	EA		26" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,179.64	541.49
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	249.40	
			<i>For Snap-On Inlet Grille, Add</i>	172.27	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	478.91	
23 82 33 00-0024	EA		26" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,387.48	585.45
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	269.50	
			<i>For Snap-On Inlet Grille, Add</i>	185.66	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	528.21	
23 82 33 00-0025	EA		26" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,548.36	625.73
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	287.58	
			<i>For Snap-On Inlet Grille, Add</i>	197.72	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	563.42	
<b>23 82 33 00-0026</b>			<b>32" High Multi-Fin Convectors For Two-Pipe System <small>(23 82 33 00-0001)</small></b>		
23 82 33 00-0027	EA		32" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	875.87	269.60
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	128.48	
			<i>For Snap-On Inlet Grille, Add</i>	91.65	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	163.66	
23 82 33 00-0028	EA		32" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,046.75	326.27
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	154.24	
			<i>For Snap-On Inlet Grille, Add</i>	108.82	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	193.42	
23 82 33 00-0029	EA		32" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,257.76	381.41
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	179.28	
			<i>For Snap-On Inlet Grille, Add</i>	125.52	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	238.06	
23 82 33 00-0030	EA		32" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,446.94	414.50
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	194.39	
			<i>For Snap-On Inlet Grille, Add</i>	135.60	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	286.64	
23 82 33 00-0031	EA		32" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,651.92	447.90
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	209.41	
			<i>For Snap-On Inlet Grille, Add</i>	145.60	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	340.87	
23 82 33 00-0032	EA		32" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	1,834.05	480.21
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	224.20	
			<i>For Snap-On Inlet Grille, Add</i>	155.47	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	387.35	
23 82 33 00-0033	EA		32" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,050.58	520.66
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	242.68	
			<i>For Snap-On Inlet Grille, Add</i>	167.79	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	441.58	
23 82 33 00-0034	EA		32" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,234.25	554.05
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	257.94	
			<i>For Snap-On Inlet Grille, Add</i>	177.96	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	488.06	
23 82 33 00-0035	EA		32" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,400.06	591.42
			<i>For Knob Operated Damper, Add</i>	15.00	
			<i>For Metal Trim Strips, Add</i>	274.48	
			<i>For Snap-On Inlet Grille, Add</i>	188.99	
			<i>For Access Doors Hinged, Add</i>	15.00	
			<i>For Air Chamber, Auto-vent, Add</i>	18.00	
			<i>For 3 Tubes System, Add</i>	526.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0036 EA 32" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,610.06	626.81
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	291.00	
<i>For Snap-On Inlet Grille, Add</i>	200.00	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	581.02	
23 82 33 00-0037 EA 32" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet .....	2,765.91	657.13
<i>For Knob Operated Damper, Add</i>	15.00	
<i>For Metal Trim Strips, Add</i>	304.55	
<i>For Snap-On Inlet Grille, Add</i>	209.04	
<i>For Access Doors Hinged, Add</i>	15.00	
<i>For Air Chamber, Auto-vent, Add</i>	18.00	
<i>For 3 Tubes System, Add</i>	619.76	
<b>23 82 33 00-0038 Electric Convectors, Floor Standing Units (23 82 33)</b>		
<b>23 82 33 00-0039 4" Deep Electric Convectors (23 82 33 00-0038)</b>		
23 82 33 00-0040 EA 38" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units .....	639.21	151.87
23 82 33 00-0041 EA 50" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units .....	701.05	151.87
<b>23 82 33 00-0042 6" Deep Electric Convectors (23 82 33 00-0038)</b>		
23 82 33 00-0043 EA 38" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units .....	729.59	151.87
23 82 33 00-0044 EA 50" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units .....	824.73	151.87
23 82 33 00-0045 EA 62" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units .....	907.98	151.87
23 82 33 00-0046 EA 74" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units .....	1,038.80	151.87
<b>23 82 36 Finned-Tube Radiation Heaters (23 82)</b>		
<b>23 82 36 00-0001 Electric Baseboard Heating (23 82 36)</b>		
Note: Includes 24 gauge steel enclosure and heating element		
<b>23 82 36 00-0002 Electric Wall Heating 10" Enclosure (23 82 36 00-0001)</b>		
23 82 36 00-0003 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element <250 Watts/FT .....	170.17	84.37
23 82 36 00-0004 LF Electric Wall Heating, 10" Enclosure, Low Capacity Electric Unit, Element >= 250 Watts/FT .....	173.02	84.37
<b>23 82 36 00-0005 Electric Wall Heating 16" Enclosure (23 82 36 00-0001)</b>		
23 82 36 00-0006 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element <350 Watts/FT .....	198.71	84.37
23 82 36 00-0007 LF Electric Wall Heating, 16" Enclosure, Low Capacity Electric Unit, Element >= 350 Watts/FT .....	205.84	84.37
<b>23 82 36 00-0008 Finned Tube Baseboard Units (23 82 36)</b>		
Note: Complete with steel enclosure. Single heating element.		
<b>23 82 36 00-0009 3/4" IPS Steel Tube With Steel Fins (23 82 36 00-0008)</b>		
23 82 36 00-0010 EA 4' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....	437.79	59.74
<i>For 90 Degree Corner, Add</i>	67.80	
<i>For Valve Enclosure, Add</i>	67.80	
<i>For Filler Piece, Add</i>	60.80	
<i>For End Cap, Add</i>	45.57	
<i>For Copper Tube With Aluminum Fins, Add</i>	8.18	
23 82 36 00-0011 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....	571.30	90.38
<i>For 90 Degree Corner, Add</i>	79.63	
<i>For Valve Enclosure, Add</i>	79.63	
<i>For Filler Piece, Add</i>	72.63	
<i>For End Cap, Add</i>	53.26	
<i>For Copper Tube With Aluminum Fins, Add</i>	12.27	
23 82 36 00-0012 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....	680.51	119.48
<i>For 90 Degree Corner, Add</i>	86.59	
<i>For Valve Enclosure, Add</i>	86.59	
<i>For Filler Piece, Add</i>	79.59	
<i>For End Cap, Add</i>	57.78	
<i>For Copper Tube With Aluminum Fins, Add</i>	16.37	
23 82 36 00-0013 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....	847.90	167.27
<i>For 90 Degree Corner, Add</i>	105.58	
<i>For Valve Enclosure, Add</i>	105.58	
<i>For Filler Piece, Add</i>	98.58	
<i>For End Cap, Add</i>	70.13	
<i>For Copper Tube With Aluminum Fins, Add</i>	20.35	
23 82 36 00-0014 EA 12' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....	1,014.86	200.97
<i>For 90 Degree Corner, Add</i>	124.88	
<i>For Valve Enclosure, Add</i>	124.88	
<i>For Filler Piece, Add</i>	117.88	
<i>For End Cap, Add</i>	82.67	
<i>For Copper Tube With Aluminum Fins, Add</i>	24.23	
23 82 36 00-0015 EA 14' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....	1,141.28	214.45
<i>For 90 Degree Corner, Add</i>	132.54	
<i>For Valve Enclosure, Add</i>	132.54	
<i>For Filler Piece, Add</i>	125.54	
<i>For End Cap, Add</i>	87.65	
<i>For Copper Tube With Aluminum Fins, Add</i>	29.07	

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

**23 80 Decentralized Unitary HVAC Equipment**

**23 82 Convection Heating and Cooling Units**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0016	EA		16' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....	1,258.49	236.97
			<i>For 90 Degree Corner, Add</i>	145.41	
			<i>For Valve Enclosure, Add</i>	145.41	
			<i>For Filler Piece, Add</i>	138.41	
			<i>For End Cap, Add</i>	96.02	
			<i>For Copper Tube With Aluminum Fins, Add</i>	31.98	
23 82 36 00-0017	EA		18' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....	1,435.41	268.06
			<i>For 90 Degree Corner, Add</i>	163.18	
			<i>For Valve Enclosure, Add</i>	163.18	
			<i>For Filler Piece, Add</i>	156.18	
			<i>For End Cap, Add</i>	107.57	
			<i>For Copper Tube With Aluminum Fins, Add</i>	36.82	
23 82 36 00-0018	EA		20' Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element .....	1,582.56	294.87
			<i>For 90 Degree Corner, Add</i>	178.51	
			<i>For Valve Enclosure, Add</i>	178.51	
			<i>For Filler Piece, Add</i>	171.51	
			<i>For End Cap, Add</i>	117.53	
			<i>For Copper Tube With Aluminum Fins, Add</i>	40.70	
<b>23 82 36 00-0019</b>			<b>1" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0008)</small></b>		
23 82 36 00-0020	EA		4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....	501.56	59.74
			<i>For 90 Degree Corner, Add</i>	67.80	
			<i>For Valve Enclosure, Add</i>	67.80	
			<i>For Filler Piece, Add</i>	60.80	
			<i>For End Cap, Add</i>	45.57	
			<i>For Copper Tube With Aluminum Fins, Add</i>	11.69	
23 82 36 00-0021	EA		6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....	666.96	90.38
			<i>For 90 Degree Corner, Add</i>	79.63	
			<i>For Valve Enclosure, Add</i>	79.63	
			<i>For Filler Piece, Add</i>	72.63	
			<i>For End Cap, Add</i>	53.26	
			<i>For Copper Tube With Aluminum Fins, Add</i>	17.54	
23 82 36 00-0022	EA		8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....	808.05	119.48
			<i>For 90 Degree Corner, Add</i>	86.59	
			<i>For Valve Enclosure, Add</i>	86.59	
			<i>For Filler Piece, Add</i>	79.59	
			<i>For End Cap, Add</i>	57.78	
			<i>For Copper Tube With Aluminum Fins, Add</i>	23.38	
23 82 36 00-0023	EA		10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....	1,006.66	167.27
			<i>For 90 Degree Corner, Add</i>	105.62	
			<i>For Valve Enclosure, Add</i>	105.62	
			<i>For Filler Piece, Add</i>	98.62	
			<i>For End Cap, Add</i>	70.15	
			<i>For Copper Tube With Aluminum Fins, Add</i>	29.07	
23 82 36 00-0024	EA		12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....	1,203.39	200.97
			<i>For 90 Degree Corner, Add</i>	124.83	
			<i>For Valve Enclosure, Add</i>	124.83	
			<i>For Filler Piece, Add</i>	117.83	
			<i>For End Cap, Add</i>	82.64	
			<i>For Copper Tube With Aluminum Fins, Add</i>	34.61	
23 82 36 00-0025	EA		14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....	1,367.82	214.45
			<i>For 90 Degree Corner, Add</i>	132.54	
			<i>For Valve Enclosure, Add</i>	132.54	
			<i>For Filler Piece, Add</i>	125.54	
			<i>For End Cap, Add</i>	87.65	
			<i>For Copper Tube With Aluminum Fins, Add</i>	41.53	
23 82 36 00-0026	EA		16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....	1,507.20	236.97
			<i>For 90 Degree Corner, Add</i>	145.32	
			<i>For Valve Enclosure, Add</i>	145.32	
			<i>For Filler Piece, Add</i>	138.32	
			<i>For End Cap, Add</i>	95.96	
			<i>For Copper Tube With Aluminum Fins, Add</i>	45.68	
23 82 36 00-0027	EA		18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....	1,722.37	268.06
			<i>For 90 Degree Corner, Add</i>	163.18	
			<i>For Valve Enclosure, Add</i>	163.18	
			<i>For Filler Piece, Add</i>	156.18	
			<i>For End Cap, Add</i>	107.57	
			<i>For Copper Tube With Aluminum Fins, Add</i>	52.61	
23 82 36 00-0028	EA		20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element .....	1,898.80	294.87
			<i>For 90 Degree Corner, Add</i>	178.33	
			<i>For Valve Enclosure, Add</i>	178.33	
			<i>For Filler Piece, Add</i>	171.33	
			<i>For End Cap, Add</i>	117.41	
			<i>For Copper Tube With Aluminum Fins, Add</i>	58.14	
<b>23 82 36 00-0029</b>			<b>1-1/4" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0008)</small></b>		
23 82 36 00-0030	EA		4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element .....	565.33	59.74
			<i>For 90 Degree Corner, Add</i>	67.80	
			<i>For Valve Enclosure, Add</i>	67.80	
			<i>For Filler Piece, Add</i>	60.80	
			<i>For End Cap, Add</i>	45.57	
			<i>For Copper Tube With Aluminum Fins, Add</i>	15.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0031 EA 6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	762.60	90.38
<i>For 90 Degree Corner, Add</i>	79.63	
<i>For Valve Enclosure, Add</i>	79.63	
<i>For Filler Piece, Add</i>	72.63	
<i>For End Cap, Add</i>	53.26	
<i>For Copper Tube With Aluminum Fins, Add</i>	22.80	
23 82 36 00-0032 EA 8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	935.58	119.48
<i>For 90 Degree Corner, Add</i>	86.59	
<i>For Valve Enclosure, Add</i>	86.59	
<i>For Filler Piece, Add</i>	79.59	
<i>For End Cap, Add</i>	57.78	
<i>For Copper Tube With Aluminum Fins, Add</i>	30.39	
23 82 36 00-0033 EA 10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	1,165.23	167.27
<i>For 90 Degree Corner, Add</i>	105.62	
<i>For Valve Enclosure, Add</i>	105.62	
<i>For Filler Piece, Add</i>	98.62	
<i>For End Cap, Add</i>	70.15	
<i>For Copper Tube With Aluminum Fins, Add</i>	37.79	
23 82 36 00-0034 EA 12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	1,392.17	200.97
<i>For 90 Degree Corner, Add</i>	124.83	
<i>For Valve Enclosure, Add</i>	124.83	
<i>For Filler Piece, Add</i>	117.83	
<i>For End Cap, Add</i>	82.64	
<i>For Copper Tube With Aluminum Fins, Add</i>	44.99	
23 82 36 00-0035 EA 14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	1,594.36	214.45
<i>For 90 Degree Corner, Add</i>	132.54	
<i>For Valve Enclosure, Add</i>	132.54	
<i>For Filler Piece, Add</i>	125.54	
<i>For End Cap, Add</i>	87.65	
<i>For Copper Tube With Aluminum Fins, Add</i>	53.99	
23 82 36 00-0036 EA 16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	1,756.39	236.97
<i>For 90 Degree Corner, Add</i>	145.32	
<i>For Valve Enclosure, Add</i>	145.32	
<i>For Filler Piece, Add</i>	138.32	
<i>For End Cap, Add</i>	95.96	
<i>For Copper Tube With Aluminum Fins, Add</i>	59.39	
23 82 36 00-0037 EA 18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	2,009.31	268.06
<i>For 90 Degree Corner, Add</i>	163.18	
<i>For Valve Enclosure, Add</i>	163.18	
<i>For Filler Piece, Add</i>	156.18	
<i>For End Cap, Add</i>	107.57	
<i>For Copper Tube With Aluminum Fins, Add</i>	68.39	
23 82 36 00-0038 EA 20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element.....	2,215.95	294.87
<i>For 90 Degree Corner, Add</i>	178.33	
<i>For Valve Enclosure, Add</i>	178.33	
<i>For Filler Piece, Add</i>	171.33	
<i>For End Cap, Add</i>	117.41	
<i>For Copper Tube With Aluminum Fins, Add</i>	75.59	

**23 82 39 Unit Heaters** (23 82)

**23 82 39 13 Cabinet Unit Heaters** (23 82 39)

**23 82 39 13-0001 Electric Cabinet Unit Heaters** (23 82 39 13)

Note: Can be mounted on the ceiling, floor or wall. Includes built-in thermostat. 208, 240/208, 277, or 480 Volt.

**23 82 39 13-0002 Electric Cabinet Unit Heaters, 35" Cabinet Length** (23 82 39 13-0001)

23 82 39 13-0003 EA 2 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....	2,983.34	191.75
Note: Wall or floor mounted.		
23 82 39 13-0004 EA 3 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....	3,006.15	191.75
Note: Wall or floor mounted.		
23 82 39 13-0005 EA 4 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....	3,028.97	191.75
Note: Wall or floor mounted.		
23 82 39 13-0006 EA 5 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....	3,051.77	191.75
Note: Wall or floor mounted.		
23 82 39 13-0007 EA 6 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....	3,074.59	191.75
Note: Wall or floor mounted.		
23 82 39 13-0008 EA 7 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....	3,097.41	191.75
Note: Wall or floor mounted.		
23 82 39 13-0009 EA 8 KW, 250 CFM, 35" Electric Cabinet Unit Heater .....	3,121.13	191.75
23 82 39 13-0010 EA For Ceiling Installation of 35" Cabinet Unit Heater, Add .....	256.18	127.32

**23 82 39 13-0011 Electric Cabinet Unit Heaters, 45" Cabinet Length** (23 82 39 13-0001)

23 82 39 13-0012 EA 4 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....	3,183.22	230.10
Note: Wall or floor mounted.		
23 82 39 13-0013 EA 6 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....	3,228.86	230.10
Note: Wall or floor mounted.		
23 82 39 13-0014 EA 8 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....	3,274.48	230.10
Note: Wall or floor mounted.		
23 82 39 13-0015 EA 10 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....	3,320.12	230.10
Note: Wall or floor mounted.		
23 82 39 13-0016 EA 12 KW, 500 CFM, 45" Electric Cabinet Unit Heater .....	3,365.73	230.10
Note: Wall or floor mounted.		

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 39 13-0017 EA 14 KW, 500 CFM, 45" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	3,411.37	230.10
23 82 39 13-0018 EA 16 KW, 500 CFM, 45" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	3,456.99	230.10
23 82 39 13-0019 EA For Ceiling Installation of 45" Cabinet Unit Heater, Add .....	306.80	153.40
<b>23 82 39 13-0020 Electric Cabinet Unit Heaters, 58" Cabinet Length (23 82 39 13-0001)</b>		
23 82 39 13-0021 EA 6 KW, 750 CFM, 58" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,005.53	306.80
23 82 39 13-0022 EA 8 KW, 750 CFM, 58" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,051.15	306.80
23 82 39 13-0023 EA 10 KW, 750 CFM, 58" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,096.78	306.80
23 82 39 13-0024 EA 12 KW, 750 CFM, 58" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,142.40	306.80
23 82 39 13-0025 EA 14 KW, 750 CFM, 58" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,188.04	306.80
23 82 39 13-0026 EA 16 KW, 750 CFM, 58" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,233.65	306.80
23 82 39 13-0027 EA For Ceiling Installation of 58" Cabinet Unit Heater, Add .....	383.50	191.75
<b>23 82 39 13-0028 Electric Cabinet Unit Heaters, 68" Cabinet Length (23 82 39 13-0001)</b>		
23 82 39 13-0029 EA 6 KW, 750 CFM, 68" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,736.59	383.50
23 82 39 13-0030 EA 9 KW, 750 CFM, 68" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,805.02	383.50
23 82 39 13-0031 EA 12 KW, 750 CFM, 68" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,873.46	383.50
23 82 39 13-0032 EA 15 KW, 750 CFM, 68" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	4,941.89	383.50
23 82 39 13-0033 EA 18 KW, 750 CFM, 68" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	5,010.35	383.50
23 82 39 13-0034 EA 21 KW, 750 CFM, 68" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	5,078.79	383.50
23 82 39 13-0035 EA 24 KW, 750 CFM, 68" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	5,147.22	383.50
23 82 39 13-0036 EA For Ceiling Installation of 68" Cabinet Unit Heater, Add .....	512.36	256.18
<b>23 82 39 13-0037 Electric Cabinet Unit Heaters, 78" Cabinet Length (23 82 39 13-0001)</b>		
23 82 39 13-0038 EA 8 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	5,558.87	460.20
23 82 39 13-0039 EA 12 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	5,650.13	460.20
23 82 39 13-0040 EA 16 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	5,741.38	460.20
23 82 39 13-0041 EA 20 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	5,832.63	460.20
23 82 39 13-0042 EA 24 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	5,923.89	460.20
23 82 39 13-0043 EA 28 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	6,015.14	460.20
23 82 39 13-0044 EA 32 KW, 1,000 CFM, 78" Electric Cabinet Unit Heater ..... Note: Wall or floor mounted.	6,106.40	460.20
23 82 39 13-0045 EA For Ceiling Installation of 78" Cabinet Unit Heater, Add .....	613.60	306.80
<b>23 82 39 13-0046 Removal and Reinstallation of Cabinet Unit Heaters (23 82 39 13)</b>		
Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 82 39 13-0047 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Floor or Wall.....	421.24	
23 82 39 13-0048 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Floor or Wall .....	727.62	
23 82 39 13-0049 EA Removal And Reinstallation Of Up To 58" Cabinet Unit Heater, Ceiling .....	868.52	
23 82 39 13-0050 EA Removal And Reinstallation Of >58" Cabinet Unit Heater, Ceiling .....	1,174.87	
<b>23 82 39 16 Propeller Unit Heaters (23 82 39)</b>		
<b>23 82 39 16-0001 Hydronic Unit Heaters Using Steam Or Hot Water (23 82 39 16)</b>		
Note: For use with either steam or heating hot water. Heating output capacities for both are listed.		
<b>23 82 39 16-0002 Horizontal Hydronic Unit Heaters, Fan Propelled, 115 Volt (23 82 39 16-0001)</b>		
23 82 39 16-0003 EA 18 MBH Steam, 13 MBH Hot Water, 395 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	1,051.32	153.18
23 82 39 16-0004 EA 24 MBH Steam, 17.4 MBH Hot Water, 450 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	1,053.35	153.18
23 82 39 16-0005 EA 36 MBH Steam, 26.1 MBH Hot Water, 550 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	1,170.16	153.18
23 82 39 16-0006 EA 48 MBH Steam, 34.8 MBH Hot Water, 750 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	1,444.90	229.77
23 82 39 16-0007 EA 60 MBH Steam, 43.6 MBH Hot Water, 900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	1,504.65	229.77
23 82 39 16-0008 EA 72 MBH Steam, 52.3 MBH Hot Water, 1,100 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	1,593.64	229.77
23 82 39 16-0009 EA 84 MBH Steam, 61 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	1,921.99	306.36
23 82 39 16-0010 EA 96 MBH Steam, 69.7 MBH Hot Water, 2,400 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,101.26	306.36
23 82 39 16-0011 EA 108 MBH Steam, 78.4 MBH Hot Water, 2,800 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,215.35	306.36



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 82 39 16-0012	EA 120 MBH Steam, 87.1 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,307.71	306.36
	23 82 39 16-0013	EA 132 MBH Steam, 95.8 MBH Hot Water, 2,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,615.72	382.95
	23 82 39 16-0014	EA 144 MBH Steam, 104 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,646.97	382.95
	23 82 39 16-0015	EA 156 MBH Steam, 113 MBH Hot Water, 2,600 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,676.85	382.95
	23 82 39 16-0016	EA 180 MBH Steam, 118 MBH Hot Water, 2,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	2,866.62	459.53
	23 82 39 16-0017	EA 204 MBH Steam, 148 MBH Hot Water, 2,900 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	3,100.22	459.53
	23 82 39 16-0018	EA 240 MBH Steam, 174 MBH Hot Water, 3,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	3,540.18	536.12
	23 82 39 16-0019	EA 280 MBH Steam, 209.1 MBH Hot Water, 4,200 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	4,386.31	536.12
	23 82 39 16-0020	EA 300 MBH Steam, 230 MBH Hot Water, 5,000 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	4,677.89	612.71
	23 82 39 16-0021	EA 360 MBH Steam, 261.3 MBH Hot Water, 5,500 CFM Unit Heater Fan Propelled, Horizontal, 115 Volt .....	5,547.12	612.71
	23 82 39 16-0022	EA Fan Guard For Fan Propelled Steam Unit Heater, Horizontal .....	283.69	38.29
		Note: Required only for unit heaters located within 7' of a working surface.		
	<b>23 82 39 16-0023</b>	<b>Vertical Hydronic Unit Heaters, Fan Propelled, 115 Volt <small>(23 82 39 16-0001)</small></b>		
	23 82 39 16-0024	EA 41.3 MBH Steam, 22.7 MBH Hot Water, 595 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	1,525.04	153.18
	23 82 39 16-0025	EA 65.5 MBH Steam, 39.6 MBH Hot Water, 989 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	1,589.55	229.77
	23 82 39 16-0026	EA 80.6 MBH Steam, 48.4 MBH Hot Water, 1,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	1,707.04	229.77
	23 82 39 16-0027	EA 101.8 MBH Steam, 68.3 MBH Hot Water, 1,490 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	2,105.35	306.36
	23 82 39 16-0028	EA 124.4 MBH Steam, 83.7 MBH Hot Water, 1,790 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	2,220.78	306.36
	23 82 39 16-0029	EA 152 MBH Steam, 105.2 MBH Hot Water, 2,220 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	2,657.46	459.53
	23 82 39 16-0030	EA 173 MBH Steam, 118.6 MBH Hot Water, 2,620 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	2,834.02	459.53
	23 82 39 16-0031	EA 210.2 MBH Steam, 139.7 MBH Hot Water, 3,200 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	2,982.07	459.53
	23 82 39 16-0032	EA 249.8 MBH Steam, 180.1 MBH Hot Water, 4,180 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	3,337.80	536.12
	23 82 39 16-0033	EA 283.8 MBH Steam, 205.4 MBH Hot Water, 4,430 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	3,513.02	536.12
	23 82 39 16-0034	EA 333.4 MBH Steam, 242.9 MBH Hot Water, 5,210 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	3,867.48	536.12
	23 82 39 16-0035	EA 386 MBH Steam, 280.8 MBH Hot Water, 6,140 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	4,496.96	689.30
	23 82 39 16-0036	EA 496 MBH Steam, 368.1 MBH Hot Water, 8,020 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	5,675.85	689.30
	23 82 39 16-0037	EA 585 MBH Steam, 431.1 MBH Hot Water, 9,450 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	6,037.12	689.30
	23 82 39 16-0038	EA 705 MBH Steam, 519.4 MBH Hot Water, 11,000 CFM Unit Heater Fan Propelled, Vertical, 115 Volt .....	6,866.67	765.89
	23 82 39 16-0039	EA Fan Guard For Fan Propelled Steam Unit Heater, Vertical .....	384.19	38.29
		Note: Required only for unit heaters located within 7' of a working surface.		
	<b>23 82 39 16-0040</b>	<b>Removal and Reinstallation of Propeller Unit Heaters <small>(23 82 39 16)</small></b>		
		Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
	23 82 39 16-0041	EA Removal And Reinstallation Of Up To 120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical .....	919.07	
	23 82 39 16-0042	EA Removal And Reinstallation Of >120 MBH Steam, 87.1 MBH Hot Water Hydronic Unit Heater, Horizontal or Vertical .....	1,225.42	
	<b>23 82 39 19</b>	<b>Wall and Ceiling Unit Heaters <small>(23 82 39)</small></b>		
	<b>23 82 39 19-0001</b>	<b>Electric Unit Heaters <small>(23 82 39 19)</small></b>		
		Note: May be mounted both vertically and horizontally.		
	23 82 39 19-0002	EA 3 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....	915.80	153.40
	23 82 39 19-0003	EA 5 KW, 350 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....	915.80	153.40
	23 82 39 19-0004	EA 7.5 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....	1,221.76	191.75
	23 82 39 19-0005	EA 10 KW, 650 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....	1,406.12	230.10
	23 82 39 19-0006	EA 15 KW, 910 CFM Electric Unit Heater, 208, 240/208, or 277 Volt .....	2,038.00	306.80
	23 82 39 19-0007	EA 20 KW, 1,320 CFM Electric Unit Heater, 208, 240/208, 277, or 480 Volt .....	2,938.59	383.50
	23 82 39 19-0008	EA 30 KW, 2,100 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt .....	4,023.19	460.20
	23 82 39 19-0009	EA 50 KW, 3,000 CFM Electric Unit Heater, Two speed; 208, 240/208, 277, or 480 Volt .....	5,816.41	536.90
	23 82 39 19-0010	EA 3 KW, 350 CFM Electric Unit Heater - 480 Volt .....	1,113.78	153.40
	23 82 39 19-0011	EA 5 KW, 350 CFM Electric Unit Heater - 480 Volt .....	1,075.13	153.40
	23 82 39 19-0012	EA 7.5 KW, 650 CFM Electric Unit Heater - 480 Volt .....	1,278.35	191.75
	23 82 39 19-0013	EA 10 KW, 650 CFM Electric Unit Heater - 480 Volt .....	1,479.73	230.10
	23 82 39 19-0014	EA 15 KW, 910 CFM Electric Unit Heater - 480 Volt .....	2,185.23	306.80
	<b>23 82 39 19-0015</b>	<b>Electric Ceiling and Wall Heaters <small>(23 82 39 19)</small></b>		
		Note: The "/" between wattages indicates two or three speed operation. 120, 240/208 or 277 Volt.		
	23 82 39 19-0016	EA 1,000, 1,500 Or 2,000 Watt Recessed Electric Wall Heater .....	451.98	95.88
	23 82 39 19-0017	EA 1,500/750 Or 2,000/1,000 Watt Recessed Electric Wall Heater .....	527.15	107.38
	23 82 39 19-0018	EA 3,000, 3,600, 4,000 Or 4,800 Watt Recessed Electric Wall Heater .....	803.15	107.38
	23 82 39 19-0019	EA 1,000, 1,500 Or 2,000 Watt Surface Mounted Electric Wall Heater .....	508.67	95.88
	23 82 39 19-0020	EA 1,500/750 Or 2,000/1,000 Watt Surface Mounted Electric Wall Heater .....	616.61	107.38
	23 82 39 19-0021	EA 3,000, 3,600, 4,000 Or 4,800 Watt Surface Mounted Electric Wall Heater .....	908.23	107.38
	23 82 39 19-0022	EA 1,000, 1,500 Or 2,000/1,500 Watt Recessed Electric Ceiling Heater .....	669.15	126.55
	23 82 39 19-0023	EA 3,000, 4,000 Or 4,000/3,000 Watt Recessed Electric Ceiling Heater .....	1,211.57	134.23
	23 82 39 19-0024	EA 4,800/3,600 Watt Recessed Electric Ceiling Heater .....	1,357.43	134.23
	23 82 39 19-0025	EA 4,000/3,000/2,000 Watt Recessed Or Surface Mounted Electric Ceiling Heater .....	1,570.78	141.90
	23 82 39 19-0026	EA 5,000/3,800/2,500 Watt Recessed Or Surface Mounted Electric Ceiling Heater .....	1,698.85	141.90
	23 82 39 19-0027	EA 1,000, 1,500 Or 2,000/1,500 Watt Surface Mounted Electric Ceiling Heater .....	744.91	126.55
	23 82 39 19-0028	EA 3,000, 4,000 Or 4,000/3,000 Watt Surface Mounted Electric Ceiling Heater .....	1,330.91	134.23
	23 82 39 19-0029	EA 4,800/3,600 Watt Surface Mounted Electric Ceiling Heater .....	1,476.77	134.23
	23 82 39 19-0030	EA Selectable Wattage (500 Or 750 Or 1000 Or 1,250 Or 1,500 Or 1,750 Or 2,250 Watt), 240 Volt, Surface Mounted, Electric Wall Heater (Markel Series 305 - Model H30522T2DWB) .....	692.97	95.88

**23 Heating, Ventilating, and Air-Conditioning (HVAC)****23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating and Cooling Units**MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

23 82 39 19-0031		<b>Removal And Reinstallation Of Electric Unit Heaters</b> <sup>(23 82 39 19)</sup> Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.		
23 82 39 19-0032	EA	Removal And Reinstallation Of Up To 15KW Electric Unit Heater .....	551.47	
23 82 39 19-0033	EA	Removal And Reinstallation Of >15 KW Electric Unit Heater .....	1,133.65	

**23 83 Radiant Heating Units** <sup>(23 80)</sup>**23 83 13 Radiant-Heating Electric Cables** <sup>(23 83)</sup>**23 83 13 13 Radiant-Heating Electric Cables** <sup>(23 83 13)</sup>

23 83 13 13-0001		<b>Self Regulating Heating Cable</b> <sup>(23 83 13 13)</sup>		
23 83 13 13-0002	LF	3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable ..... Note: Tinned copper braid, at 50 Degrees F.	9.56	1.07
23 83 13 13-0003	LF	5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable ..... Note: Tinned copper braid, at 50 degrees F.	10.17	1.07
23 83 13 13-0004	LF	8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable ..... Note: Tinned copper braid, at 50 degrees F.	10.59	1.07
23 83 13 13-0005	LF	3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable ..... Note: Tinned copper braid, at 50 degrees F.	9.56	1.07
23 83 13 13-0006	LF	5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable ..... Note: Tinned copper braid, at 50 degrees F.	11.20	1.07
23 83 13 13-0007	LF	8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable ..... Note: Tinned copper braid, at 50 degrees F.	11.80	1.07
23 83 13 13-0008	LF	3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions .....	11.79	1.07
23 83 13 13-0009	LF	5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions .....	12.07	1.07
23 83 13 13-0010	LF	8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions .....	12.35	1.07
23 83 13 13-0011	LF	3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions .....	11.79	1.07
23 83 13 13-0012	LF	5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions .....	12.07	1.07
23 83 13 13-0013	LF	8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPR Overjacket For Protection Against Inorganic Chemical Solutions .....	12.35	1.07
23 83 13 13-0014	LF	3 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 Degrees F.	14.59	1.07
23 83 13 13-0015	LF	5 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	15.15	1.07
23 83 13 13-0016	LF	8 Watt, 120 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	15.43	1.07
23 83 13 13-0017	LF	3 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	14.59	1.07
23 83 13 13-0018	LF	5 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	15.15	1.07
23 83 13 13-0019	LF	8 Watt, 240 Volt, Self Regulating Low Temperature Heating Cable With TPE Overjacket For Hostile/Corrosive Environments..... Note: Tinned copper braid, at 50 degrees F.	15.43	1.07
23 83 13 13-0020	EA	Power Connection Kit With Pre-set Thermostat For Self Regulating Low Temperature Heating Cable .....	359.09	84.71
23 83 13 13-0021	EA	Splice And Tee Kit For Self Regulating Low Temperature Heating Cable .....	359.09	84.71
23 83 13 13-0022	EA	End Seal Kit For Self Regulating Low Temperature Heating Cable .....	220.47	15.41
23 83 13 13-0023	EA	Ambient Air Sensing Thermostat For Self Regulating Low Temperature Heating Cable .....	596.37	38.51
23 83 13 13-0024	EA	Mechanical Or Electrical Line Sensing Thermostat For Self Regulating Low Temperature Heating Cable .....	655.37	38.51

**23 84 Humidity Control Equipment** <sup>(23 80)</sup>**23 84 13 Humidifiers** <sup>(23 84)</sup>**23 84 13 16 Wetted-Element Humidifiers** <sup>(23 84 13)</sup>

23 84 13 16-0001		<b>Electric Steam Humidifiers, Self-Steam Producing</b> <sup>(23 84 13 16)</sup> Note: Electronic modulating duct or air handling unit installation 208V-108V with 12" to 72" manifolds included.		
23 84 13 16-0002	EA	1-96 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....	13,150.02	631.09
23 84 13 16-0003	EA	20-168 LB/Hour Electric Steam Humidifier, Self-Steam Producing With 12-72" Manifold.....	16,620.44	632.63

**23 84 13 23 Direct-Steam-Injection Humidifiers** <sup>(23 84 13)</sup>





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 84 13 23-0001 Steam Type Pneumatically Controlled</b> <small>(23 84 13 23)</small>		
<small>Note: For duct or air handling installation standard unit with integral operator distribution manifold strainer trap and pneumatic modulating valve. Excludes humidistat and piping.</small>		
23 84 13 23-0002 EA 3-191 LB/Hour Steam Humidifier, 24" Manifold, Pneumatic Controls .....	2,218.72	404.39
<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
<i>For Each Additional Manifold, Add</i>	<i>686.04</i>	
23 84 13 23-0003 EA 3-191 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls .....	2,218.72	404.39
<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
<i>For Each Additional Manifold, Add</i>	<i>686.04</i>	
23 84 13 23-0004 EA 65-334 LB/Hour Steam Humidifier, 36" Manifold, Pneumatic Controls .....	3,131.80	404.39
<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
<i>For Each Additional Manifold, Add</i>	<i>959.96</i>	
23 84 13 23-0005 EA 65-334 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls .....	3,284.98	505.49
<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
<i>For Each Additional Manifold, Add</i>	<i>1,011.02</i>	
23 84 13 23-0006 EA 100-690 LB/Hour Steam Humidifier, 48" Manifold, Pneumatic Controls .....	4,633.14	404.39
<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
<i>For Each Additional Manifold, Add</i>	<i>1,410.37</i>	
23 84 13 23-0007 EA 100-690 LB/Hour Steam Humidifier, 84" Manifold, Pneumatic Controls .....	4,786.32	505.49
<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
<i>For Each Additional Manifold, Add</i>	<i>1,461.43</i>	
23 84 13 23-0008 EA 220-2,000 LB/Hour Steam Humidifier, 72" Manifold, Pneumatic Controls .....	7,132.18	505.49
<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
<i>For Each Additional Manifold, Add</i>	<i>2,165.18</i>	
23 84 13 23-0009 EA 220-2,000 LB/Hour Steam Humidifier, 144" Manifold, Pneumatic Controls .....	7,323.65	632.63
<i>For Electrically Controlled Unit, Add</i>	<i>700.00</i>	
<i>For Each Additional Manifold, Add</i>	<i>2,229.01</i>	
 <b>23 84 13 29 Self-Contained Steam Humidifiers</b> <small>(23 84 13)</small>		
<b>23 84 13 29-0001 Residential Humidifiers</b> <small>(23 84 13 29)</small>		
<small>Note: Includes solenoid valve and flow through water supply.</small>		
23 84 13 29-0002 EA Duct Or Furnace Mounted Humidifier, Residential Type.....	667.26	76.59
 <b>23 84 16 Mechanical Dehumidification Units</b> <small>(23 84)</small>		
<b>23 84 16 16 Indoor, Mechanical Dehumidification Units</b> <small>(23 84 16)</small>		
<b>23 84 16 16-0001 Mechanical Dehumidification Units</b> <small>(23 84 16 16)</small>		
<small>Note: Sized by moisture removal per 24 hours.</small>		
23 84 16 16-0002 EA 65 Pint Per Day, 160 CFM, 8" Duct Connection, Refrigerant Dehumidifier.....	2,344.98	76.70
23 84 16 16-0003 EA 90 Pint Per Day, 235 CFM, 10"/6" Duct Connection, Refrigerant Dehumidifier .....	2,947.03	89.47
23 84 16 16-0004 EA 120 Pint Per Day, 350 CFM, 10"/6" Duct Connection, Refrigerant Dehumidifier .....	3,942.03	102.27
 <b>23 84 16 33 Portable Dehumidifiers</b> <small>(23 84 16)</small>		
<b>23 84 16 33-0001 Self Contained Free Standing Unit</b> <small>(23 84 16 33)</small>		
<small>Note: Sized by moisture removal per 24 hours.</small>		
23 84 16 33-0002 EA 30 Pint/24 Hour Dehumidifier .....	569.22	165.88
23 84 16 33-0003 EA 50 Pint/24 Hour Dehumidifier .....	675.75	165.88
23 84 16 33-0004 EA 70 Pint/24 Hour Dehumidifier .....	739.66	165.88

**END OF SECTION 23**

**23 Heating, Ventilating, and Air-Conditioning (HVAC)**

23 80 Decentralized Unitary HVAC Equipment

23 84 Humidity Control Equipment



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels. Electrical equipment and lighting shall conform to California Title 24.

### 26 01 Operation and Maintenance of Electrical Systems <sup>(26)</sup>

#### 26 01 10 Operation and Maintenance of Medium-Voltage Electrical

##### Distribution <sup>(26 01)</sup>

##### 26 01 10 91 Medium-Voltage Electrical Distribution Restoration <sup>(26 01 10)</sup>

##### 26 01 10 91-0001 Retrofit Distribution Enclosures <sup>(26 01 10 91)</sup>

Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.

26 01 10 91-0002	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C) .....	562.22
		Note: 2mm thick, aluminum frame, hinged cover.	
		<i>For Up To 20, Add</i>	116.97
		<i>For &gt;20 To 50, Add</i>	93.58
		<i>For &gt;50 To 100, Add</i>	46.79
26 01 10 91-0003	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C) .....	729.93
		Note: 2mm thick, aluminum frame, hinged cover.	
		<i>For Up To 20, Add</i>	158.90
		<i>For &gt;20 To 50, Add</i>	127.12
		<i>For &gt;50 To 100, Add</i>	63.56
26 01 10 91-0004	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C) .....	1,098.88
		Note: 4mm thick, aluminum frame, hinged cover.	
		<i>For Up To 20, Add</i>	251.14
		<i>For &gt;20 To 50, Add</i>	200.91
		<i>For &gt;50 To 100, Add</i>	100.46
26 01 10 91-0005	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO) .....	557.44
		Note: 2mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	115.78
		<i>For &gt;20 To 50, Add</i>	92.62
		<i>For &gt;50 To 100, Add</i>	46.31
26 01 10 91-0006	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2) .....	560.39
		Note: 2mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	116.52
		<i>For &gt;20 To 50, Add</i>	93.21
		<i>For &gt;50 To 100, Add</i>	46.61
26 01 10 91-0007	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3) .....	716.27
		Note: 2mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	155.49
		<i>For &gt;20 To 50, Add</i>	124.39
		<i>For &gt;50 To 100, Add</i>	62.19
26 01 10 91-0008	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4) .....	1,068.55
		Note: 4mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	243.56
		<i>For &gt;20 To 50, Add</i>	194.84
		<i>For &gt;50 To 100, Add</i>	97.42
26 01 10 91-0009	EA	2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VEFR) .....	441.48
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		<i>For Up To 20, Add</i>	86.79
		<i>For &gt;20 To 50, Add</i>	69.43
		<i>For &gt;50 To 100, Add</i>	34.72
26 01 10 91-0010	EA	3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VEFR) .....	622.60
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		<i>For Up To 20, Add</i>	132.07
		<i>For &gt;20 To 50, Add</i>	105.65
		<i>For &gt;50 To 100, Add</i>	52.83
26 01 10 91-0011	EA	4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VEFR) .....	886.73
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		<i>For Up To 20, Add</i>	198.10
		<i>For &gt;20 To 50, Add</i>	158.48
		<i>For &gt;50 To 100, Add</i>	79.24
26 01 10 91-0012	EA	2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) .....	808.36
		Note: 4mm thick, aluminum frame, magnetic cover.	
		<i>For Up To 20, Add</i>	178.51
		<i>For &gt;20 To 50, Add</i>	142.81
		<i>For &gt;50 To 100, Add</i>	71.40
26 01 10 91-0013	EA	3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) .....	1,111.39
		Note: 4mm thick, aluminum frame, magnetic cover.	
		<i>For Up To 20, Add</i>	254.27
		<i>For &gt;20 To 50, Add</i>	203.41
		<i>For &gt;50 To 100, Add</i>	101.71

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation and Maintenance of Medium-Voltage Electrical Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01	10 91-0014	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	2,036.92	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	485.65	
			For >20 To 50, Add	388.52	
			For >50 To 100, Add	194.26	
26 01	10 91-0015	EA	3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	928.80	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	208.62	
			For >20 To 50, Add	166.89	
			For >50 To 100, Add	83.45	
26 01	10 91-0016	EA	4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR).....	1,367.57	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	318.31	
			For >20 To 50, Add	254.65	
			For >50 To 100, Add	127.32	

**26 01 20 Operation and Maintenance of Low-Voltage Electrical****Distribution** (26 01)**26 01 20 91 Low-Voltage Electrical Distribution Restoration** (26 01 20)

26 01	20 91-0001		Lock Out/Tag Out Devices <small>(26 01 20 91)</small>		
			Note: Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.		
26 01	20 91-0002	EA	Lock Out/Tag Out Local Disconnect.....	55.45	
			Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01	20 91-0003	EA	Lock Out/Tag Out Breaker Or Motor Starter.....	55.45	
			Note: Excludes tag or padlock See CSI section 26 01 20 91-0004 for padlock, 26 01 20 91-0005 for tag(s).		
26 01	20 91-0004	EA	Lock Out Padlock Device.....	15.41	
			Note: Includes the installation and removal of pad lock when required		
26 01	20 91-0005	EA	Lock Out Tags.....	5.75	
			Note: Includes filling out tag information, installation and removal of identifying tags.		
26 01	20 91-0006		Existing Circuit Tracing <small>(26 01 20 91)</small>		
26 01	20 91-0007	EA	Motors, Diconnects And Other Single Source Devices, Existing Circuit Tracing Per Device.....	32.05	
26 01	20 91-0008	EA	Lighting, Existing Circuit Tracing Per Circuit.....	32.05	

**26 01 30 Operation and Maintenance of Facility Electrical Power****Generating and Storing Equipment** (26 01)**26 01 30 91 Facility Electrical Power Generating and Storing Equipment Restoration** (26 01 30)

26 01	30 91-0001		Emergency Generator Permits <small>(26 01 30 91)</small>		
26 01	30 91-0002		Air Pollution Control Board <small>(26 01 30 91-0001)</small>		
26 01	30 91-0003	EA	APCD Permit To Construct And Operate Emergency Generator.....	4,871.26	

**26 01 50 Operation and Maintenance of Lighting** (26 01)**26 01 50 51 Luminaire Relamping** (26 01 50)

26 01	50 51-0001		Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small>		
			Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps.		
26 01	50 51-0002		Halogen Lamps <small>(26 01 50 51-0001)</small>		
26 01	50 51-0003	EA	300 Watt, T3, Tungsten Halogen Lamp.....	50.48	
26 01	50 51-0004	EA	500 Watt, T3, Tungsten Halogen Lamp.....	63.43	
26 01	50 51-0005	EA	1,000 Watt, T3, Tungsten Halogen Lamp.....	92.38	
26 01	50 51-0006	EA	60 Watt, PAR38, Halogen Lamp.....	28.32	
26 01	50 51-0007	EA	75 Watt, PAR38, Halogen Lamp.....	28.32	
26 01	50 51-0008	EA	90 Watt, PAR38, Halogen Lamp.....	27.17	
26 01	50 51-0009	EA	100 Watt, PAR38, Halogen Lamp.....	27.17	
26 01	50 51-0010	EA	60 Watt, PAR38, Halogen IR Reflective Lamp.....	40.75	
26 01	50 51-0011	EA	67 Watt, PAR38, Halogen IR Reflective Lamp.....	44.41	
26 01	50 51-0012	EA	70 Watt, PAR38, Halogen IR Reflective Lamp.....	43.46	
26 01	50 51-0013	EA	90 Watt, PAR38, Halogen IR Reflective Lamp.....	46.26	
26 01	50 51-0014	EA	100 Watt, PAR38, Halogen IR Reflective Lamp.....	46.85	
26 01	50 51-0015	EA	12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10).....	24.31	
26 01	50 51-0016	EA	12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20).....	24.31	
26 01	50 51-0017	EA	12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25).....	26.22	
26 01	50 51-0018	EA	12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36).....	26.22	
26 01	50 51-0019		Incandescent Lamps <small>(26 01 50 51-0001)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0020 EA 100 Watt, Frosted, Interior Incandescent Lamp .....	8.43	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0021 EA 150 Watt, Frosted, Interior Incandescent Lamp .....	9.88	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0022 EA 200 Watt, Frosted, Interior Incandescent Lamp .....	11.53	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0023 EA 300 Watt, PS25, Interior Incandescent Lamp .....	13.59	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0024 EA 60 Watt, G25, Clear, Interior Incandescent Lamp .....	10.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.55	
26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp .....	16.17	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp .....	19.06	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp .....	17.91	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp .....	28.87	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.06	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp .....	56.98	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.56	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp .....	65.03	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.56	
<b>26 01 50 51-0031 Exit Light Lamps</b> <small>(26 01 50 51-0001)</small>		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps .....	136.46	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light .....	38.13	
<i>For Multiple Lamps In Fixture, Deduct</i>	-10.19	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign .....	41.69	
<i>For Multiple Lamps In Fixture, Deduct</i>	-5.10	
<b>26 01 50 51-0035 Fluorescent Lamps</b> <small>(26 01 50 51-0001)</small>		
26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp .....	15.39	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp .....	18.02	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp .....	20.65	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp .....	20.52	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp .....	25.19	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp .....	22.42	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp .....	22.31	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp .....	34.22	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp .....	26.74	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp .....	22.02	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp .....	17.27	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp .....	19.40	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp .....	19.48	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp .....	19.14	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp .....	27.35	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp .....	23.52	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.58	
26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp .....	38.12	
26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp .....	22.26	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp .....	18.73	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp .....	18.19	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp .....	19.88	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp .....	31.90	
<i>For Multiple Lamps In Fixture, Deduct</i>	-5.10	
26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp .....	30.86	
<i>For Multiple Lamps In Fixture, Deduct</i>	-5.10	
26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp .....	16.81	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	
26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp .....	16.57	
<i>For Multiple Lamps In Fixture, Deduct</i>	-4.07	

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp .....17.03 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.07		
26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp .....17.70 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.07		
26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp .....20.03 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.07		
26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp .....21.88 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.58		
26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp .....21.28 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.58		
26 01 50 51-0066 EA 46", 54 Watt, T5HO Fluorescent Lamp .....23.03 <i>For Multiple Lamps In Fixture, Deduct</i> .....-4.58		
26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp .....19.62		
26 01 50 51-0068 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp .....12.90 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.55		
26 01 50 51-0069 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp .....14.11 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.55		
26 01 50 51-0070 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp .....27.44 <i>For Multiple Lamps In Fixture, Deduct</i> .....-2.55		
26 01 50 51-0071 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux .....36.22		
26 01 50 51-0072 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux .....36.22		
26 01 50 51-0073 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin .....65.29		
26 01 50 51-0074 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp .....24.62		
26 01 50 51-0075 EA <9 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....13.32		
26 01 50 51-0076 EA 9 To 27 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....11.70		
26 01 50 51-0077 EA 29 To 32 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....12.20		
26 01 50 51-0078 EA 33 To 42 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....45.68		
26 01 50 51-0079 EA 43 To 65 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....49.70		
26 01 50 51-0080 EA 85 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....93.32		
26 01 50 51-0081 EA 105 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....111.49		
26 01 50 51-0082 EA 200 Watt, Screw-In, Spiral Compact Fluorescent Lamps .....115.19		
26 01 50 51-0083 EA 11 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....43.00		
26 01 50 51-0084 EA 15 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....44.78		
26 01 50 51-0085 EA 20 To 28 Watt, Screw-In, Compact Fluorescent Reflector Lamps .....51.44		
<b>26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)</b>		
26 01 50 51-0087 EA 50 Watt, Pulse Start Metal Halide Lamp .....55.06		
26 01 50 51-0088 EA 70 Watt, Pulse Start Metal Halide Lamp .....52.90		
26 01 50 51-0089 EA 100 Watt, Pulse Start Metal Halide Lamp .....59.72		
26 01 50 51-0090 EA 150 Watt, Pulse Start Metal Halide Lamp .....58.17		
26 01 50 51-0091 EA 175 Watt, Pulse Start Metal Halide Lamp .....57.72		
26 01 50 51-0092 EA 250 Watt, Pulse Start Metal Halide Lamp .....58.03		
26 01 50 51-0093 EA 400 Watt, Pulse Start Metal Halide Lamp .....68.89		
26 01 50 51-0094 EA 1,000 Watt, Pulse Start Metal Halide Lamp .....79.30		
26 01 50 51-0095 EA 1,500 Watt, Pulse Start Metal Halide Lamp .....78.87		
<b>26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)</b>		
26 01 50 51-0097 EA 35 Watt, High Pressure Sodium Lamp .....46.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0098 EA 50 Watt, High Pressure Sodium Lamp .....46.28 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0099 EA 70 Watt, High Pressure Sodium Lamp .....47.20 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0100 EA 100 Watt, High Pressure Sodium Lamp .....48.97 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0101 EA 150 Watt, High Pressure Sodium Lamp .....47.20 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0102 EA 250 Watt, High Pressure Sodium Lamp .....47.20 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0103 EA 400 Watt, High Pressure Sodium Lamp .....44.57 <i>For Enclosed And Gasket Light Fixtures, Add</i> .....3.92		
26 01 50 51-0104 EA 1,000 Watt, High Pressure Sodium Lamp .....97.82		
<b>26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)</b>		
26 01 50 51-0106 EA 35 Watt, Low Pressure Sodium Lamp .....110.24		
26 01 50 51-0107 EA 55 Watt, Low Pressure Sodium Lamp .....122.46		
26 01 50 51-0108 EA 70 Watt, Low Pressure Sodium Lamp .....125.21		
26 01 50 51-0109 EA 90 Watt, Low Pressure Sodium Lamp .....127.96		
26 01 50 51-0110 EA 135 Watt, Low Pressure Sodium Lamp .....138.97		
26 01 50 51-0111 EA 180 Watt, Low Pressure Sodium Lamp .....188.49		
<b>26 01 50 51-0112 LED Lamps (26 01 50 51-0001)</b>		
<b>26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)</b>		
26 01 50 51-0114 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) .....18.06		
<b>26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)</b>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0116	EA			6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....	23.32	
26 01 50 51-0117	EA			11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....	23.32	
26 01 50 51-0118	EA			14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....	37.44	
26 01 50 51-0119	EA			17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....	26.89	
26 01 50 51-0120	EA			18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....	46.26	
<b>26 01 50 51-0121</b>				<b>LED Lamps, Medium Base, BR30 Or BR40</b> <small>(26 01 50 51-0112)</small>		
26 01 50 51-0122	EA			9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star) .....	31.85	
26 01 50 51-0123	EA			14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star) .....	28.87	
26 01 50 51-0124	EA			11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....	36.79	
26 01 50 51-0125	EA			14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....	31.52	
26 01 50 51-0126	EA			14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....	40.32	
26 01 50 51-0127	EA			18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star) .....	31.52	
<b>26 01 50 51-0128</b>				<b>LED Lamps, Medium Base, PAR</b> <small>(26 01 50 51-0112)</small>		
26 01 50 51-0129	EA			7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star) .....	34.67	
26 01 50 51-0130	EA			12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star) .....	45.63	
26 01 50 51-0131	EA			16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star) .....	45.63	
26 01 50 51-0132	EA			15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star) .....	43.87	
26 01 50 51-0133	EA			12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star) .....	42.10	
26 01 50 51-0134	EA			15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star) .....	42.10	
26 01 50 51-0135	EA			18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star) .....	77.74	
26 01 50 51-0136	EA			15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star) .....	45.63	
26 01 50 51-0137	EA			18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star) .....	43.87	
26 01 50 51-0138	EA			19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star) .....	45.63	
26 01 50 51-0139	EA			24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star) .....	45.63	
<b>26 01 50 51-0140</b>				<b>LED Lamps, GU Base, MR16</b> <small>(26 01 50 51-0112)</small>		
26 01 50 51-0141	EA			4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star) .....	25.34	
26 01 50 51-0142	EA			6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star) .....	31.85	
26 01 50 51-0143	EA			8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star) .....	34.67	
<b>26 01 50 51-0144</b>				<b>LED Lamps, PL Series</b> <small>(26 01 50 51-0112)</small>		
26 01 50 51-0145	EA			3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23) .....	17.58	
26 01 50 51-0146	EA			26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/827/DIR) .....	23.84	
26 01 50 51-0147	EA			26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/830/DIR) .....	20.99	
26 01 50 51-0148	EA			26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/835/DIR) .....	22.77	
26 01 50 51-0149	EA			26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 9.5PLH/840/DIR) .....	22.77	
26 01 50 51-0150	EA			26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 10.5PLH/930/DIR) .....	25.98	
26 01 50 51-0151	EA			13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/827/DIR) .....	22.77	
26 01 50 51-0152	EA			13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/830/DIR) .....	22.77	
26 01 50 51-0153	EA			13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/835/DIR) .....	22.77	
26 01 50 51-0154	EA			13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 5.5PLH/840/DIR) .....	22.77	
26 01 50 51-0155	EA			26 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 10PLV/827/DIR) .....	24.91	
26 01 50 51-0156	EA			26 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/830/DIR) .....	24.91	
26 01 50 51-0157	EA			26 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 10PLV/835/DIR) .....	24.91	
26 01 50 51-0158	EA			26 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 10PLV/840/DIR) .....	24.91	
26 01 50 51-0159	EA			26 Watt, 3000K CCT, High CRI, PL EDGE DiRect Series (Green Creative 11PLV/930/DIR) .....	23.84	
26 01 50 51-0160	EA			13-18 Watt, 2700K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/827/DIR) .....	23.84	
26 01 50 51-0161	EA			13-18 Watt, 3000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/830/DIR) .....	23.84	
26 01 50 51-0162	EA			13-18 Watt, 3500K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/835/DIR) .....	24.56	
26 01 50 51-0163	EA			13-18 Watt, 4000K CCT, PL EDGE DiRect Series (Green Creative 6.5PLV/840/DIR) .....	24.56	
26 01 50 51-0164	EA			26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP) .....	24.71	
26 01 50 51-0165	EA			26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP) .....	24.71	
26 01 50 51-0166	EA			26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP) .....	24.71	
26 01 50 51-0167	EA			26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP) .....	24.71	
26 01 50 51-0168	EA			13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP) .....	25.27	
26 01 50 51-0169	EA			13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP) .....	25.27	
26 01 50 51-0170	EA			13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26) .....	25.27	
26 01 50 51-0171	EA			13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26) .....	25.27	
26 01 50 51-0172	EA			13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26) .....	25.27	
26 01 50 51-0173	EA			13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24) .....	25.27	
26 01 50 51-0174	EA			13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24) .....	25.27	
26 01 50 51-0175	EA			13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24) .....	25.27	
26 01 50 51-0176	EA			26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP) .....	30.85	
26 01 50 51-0177	EA			26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP) .....	30.85	
26 01 50 51-0178	EA			26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP) .....	30.85	
26 01 50 51-0179	EA			26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP) .....	29.56	
26 01 50 51-0180	EA			13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP) .....	29.56	
26 01 50 51-0181	EA			13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP) .....	29.56	
26 01 50 51-0182	EA			4 Pin, 6 Watt, 560 Lumens 4000K CCT, Horizontal Mount LED PL Lamp (Green Creative 57898) .....	28.13	
<b>26 01 50 51-0183</b>				<b>HID LED Lamps, Medium Base E26</b> <small>(26 01 50 51-0112)</small>		
26 01 50 51-0184	EA			27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26) .....	54.19	
26 01 50 51-0185	EA			27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26) .....	54.19	

**26 Electrical**  
**26 01 Operation and Maintenance of Electrical Systems**  
**26 01 50 Operation and Maintenance of Lighting**



MINOR TOTAL DIRECT DEMOLITION  
 CSI UOM DESCRIPTION UNIT COST UNIT COST

26 01 50 51-0186	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26)	67.40	
26 01 50 51-0187	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26)	67.40	
26 01 50 51-0188	EA	10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026)	51.77	
26 01 50 51-0189	EA	10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026)	51.77	
26 01 50 51-0190	EA	10 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-5026)	51.77	
26 01 50 51-0191	EA	10 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-6026)	51.77	
26 01 50 51-0192	EA	15 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-3026)	53.20	
26 01 50 51-0193	EA	15 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-4026)	53.20	
26 01 50 51-0194	EA	15 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-5026)	53.20	
26 01 50 51-0195	EA	15 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED15-6026)	53.20	
26 01 50 51-0196	EA	20 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-3026)	58.91	
26 01 50 51-0197	EA	20 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-4026)	58.91	
26 01 50 51-0198	EA	20 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-5026)	58.91	
26 01 50 51-0199	EA	20 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED20-6026)	58.91	
26 01 50 51-0200	EA	25 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-3026)	66.05	
26 01 50 51-0201	EA	25 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-4026)	66.05	
26 01 50 51-0202	EA	25 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-5026)	66.05	
26 01 50 51-0203	EA	25 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED25-6026)	66.05	
26 01 50 51-0204	EA	30 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-3026)	81.76	
26 01 50 51-0205	EA	30 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-4026)	81.76	
26 01 50 51-0206	EA	30 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-5026)	81.76	
26 01 50 51-0207	EA	30 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED30-6026)	81.76	
26 01 50 51-0208	EA	40 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-3026)	95.33	
26 01 50 51-0209	EA	40 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-4026)	95.33	
26 01 50 51-0210	EA	40 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-5026)	95.33	
26 01 50 51-0211	EA	40 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED40-6026)	95.33	
26 01 50 51-0212	EA	60 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-3026)	104.61	
26 01 50 51-0213	EA	60 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-4026)	104.61	
26 01 50 51-0214	EA	60 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-5026)	104.61	
26 01 50 51-0215	EA	60 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED60-6026)	104.61	
26 01 50 51-0216	EA	80 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-3026)	138.17	
26 01 50 51-0217	EA	80 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-4026)	138.17	
26 01 50 51-0218	EA	80 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-5026)	138.17	
26 01 50 51-0219	EA	80 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED80-6026)	138.17	
26 01 50 51-0220	EA	100 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-3026)	142.45	
26 01 50 51-0221	EA	100 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-4026)	142.45	
26 01 50 51-0222	EA	100 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-5026)	142.45	
26 01 50 51-0223	EA	100 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED100-6026)	142.45	
26 01 50 51-0224	EA	120 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-3026)	167.44	
26 01 50 51-0225	EA	120 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-4026)	167.44	
26 01 50 51-0226	EA	120 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-5026)	167.44	
26 01 50 51-0227	EA	120 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED120-6026)	167.44	
26 01 50 51-0228	EA	150 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-3026)	197.43	
26 01 50 51-0229	EA	150 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-4026)	197.43	
26 01 50 51-0230	EA	150 Watt, 5000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-5026)	197.43	
26 01 50 51-0231	EA	150 Watt, 6000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED150-6026)	197.43	
26 01 50 51-0232	EA	20 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT40KMED-G6)	65.95	
26 01 50 51-0233	EA	20 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED20WPT50KMED-G6)	70.94	
26 01 50 51-0234	EA	27 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT40KMED-G5)	70.94	
26 01 50 51-0235	EA	27 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED27WPT50KMED-G5)	65.95	
26 01 50 51-0236	EA	36 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT40KMED-G5)	81.65	
26 01 50 51-0237	EA	36 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED36WPT50KMED-G5)	75.23	
26 01 50 51-0238	EA	45 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT40KMED-G5)	89.51	
26 01 50 51-0239	EA	45 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED45WPT50KMED-G5)	88.67	
26 01 50 51-0240	EA	54 Watt, 4000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT40KMED-G5)	90.58	
26 01 50 51-0241	EA	54 Watt, 5000K CCT, Medium Base E26, LED Post Top Lamp (EIKO industries LED54WPT50KMED-G5)	90.58	
26 01 50 51-0242	EA	27 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT40KMED-G7)	56.69	
26 01 50 51-0243	EA	27 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED27WPT50KMED-G7)	56.69	
26 01 50 51-0244	EA	36 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT40KMED-G7)	63.29	
26 01 50 51-0245	EA	36 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED36WPT50KMED-G7)	63.29	
26 01 50 51-0246	EA	45 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT40KMED-G7)	67.68	
26 01 50 51-0247	EA	45 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED45WPT50KMED-G7)	67.68	
26 01 50 51-0248	EA	54 Watt, 4000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT40KMED-G7)	74.28	
26 01 50 51-0249	EA	54 Watt, 5000K CCT, Medium Base E26, LED Lamp (EIKO industries LED54WPT50KMED-G7)	74.28	
26 01 50 51-0250	EA	20 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-20W8-55K-E26)	74.62	
26 01 50 51-0251	EA	30 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-30W8-55K-E26)	80.48	
26 01 50 51-0252	EA	40 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-40W8-55K-E26)	98.97	
26 01 50 51-0253	EA	50 Watt, 5500K CCT, Medium Base E26, LED Lamp (Olympic CL-50W8-55K-E26)	108.54	
26 01 50 51-0254	EA	10 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-10W12-55K-E26)	45.49	
26 01 50 51-0255	EA	15 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-15W12-55K-E26)	50.63	
26 01 50 51-0256	EA	20 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-20W12-55K-E26)	53.20	
26 01 50 51-0257	EA	25 Watt, 5500K CCT, Medium Base E26, Compact LED Lamp (Olympic CCL-25W12-55K-E26)	57.99	
26 01 50 51-0258	EA	15 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148015-UNV)	68.78	
26 01 50 51-0259	EA	20 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148020-UNV)	79.77	
26 01 50 51-0260	EA	25 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148025-UNV)	107.23	
26 01 50 51-0261	EA	30 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148030-UNV)	112.72	
26 01 50 51-0262	EA	35 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148035-UNV)	121.51	
26 01 50 51-0263	EA	40 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148040-UNV)	127.00	
26 01 50 51-0264	EA	60 Watt, Medium Base E26, LED Self-Ballasted Retrofit Lamp (Nepton LED-N148060-UNV)	180.83	
26 01 50 51-0265	EA	20 Watt, 5000K CCT, 120-277 Volt, E26 (Medium) Base, LED Retrofit Omni-Directional Lamp (HYLITE HL-IOD-20W-E26-50K)	69.16	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>26 01 50 51-0266</b>				<b>HID LED Lamps, Mogul Base E39 Or EX39</b> <small>(26 01 50 51-0112)</small>		
	EA			120 Watt, 2700K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/827/277V/EX39).....	174.68	
	EA			120 Watt, 5000K CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/850/277V/EX39).....	174.68	
	EA			120 Watt, 5700 CCT, Mogul Base EX39, HID LED Lamp (Green Creative 120HID/857/277V/EX39).....	174.68	
	EA			27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39).....	54.19	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R).....	54.19	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	54.19	
	EA			45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	67.40	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	67.40	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	67.40	
	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	120.95	
	EA			80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	138.17	
	EA			80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	138.17	
	EA			80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	138.17	
	EA			80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	138.17	
	EA			100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	142.45	
	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	142.45	
	EA			100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	142.45	
	EA			100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	142.45	
	EA			120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	167.44	
	EA			120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	167.44	
	EA			120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	167.44	
	EA			120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	167.44	
	EA			150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	197.43	
	EA			150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	197.43	
	EA			150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	197.43	
	EA			150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	197.43	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	70.94	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	70.94	
	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	81.65	
	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	80.67	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	89.51	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	88.67	
	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	90.58	
	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	88.09	
	EA			100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	185.18	
	EA			20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	70.92	
	EA			20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	70.92	
	EA			30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	79.80	
	EA			30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	79.80	
	EA			40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	85.15	
	EA			40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	85.15	
	EA			27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	56.60	
	EA			27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	56.60	
	EA			36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	63.29	
	EA			36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	63.29	
	EA			45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	67.68	
	EA			45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	67.68	
	EA			54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	74.28	
	EA			54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	74.28	
	EA			65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	129.88	
	EA			80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	149.45	
	EA			100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	177.29	
	EA			120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	341.27	
	EA			150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	322.54	
	EA			200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	341.27	
	EA			250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	342.73	
	EA			24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	56.27	
	EA			24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	56.27	
	EA			24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	56.27	
	EA			100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	160.23	
	EA			115 Watt, 4000K CCT, Mogul Base EX39, HID LED Lamp (Keystone KT-LED115HID-V-EX39-840-D).....	411.36	
	EA			40 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Arc-Cob Lamp (HYLITE HL-AC-40W-E39-50K).....	173.07	
	EA			100 Watt, 480 Volt, 5000K CCT, E39 Base, LED Omni-Cob Lamp (HYLITE HL-OC-100W-E39-50K).....	202.77	
	EA			45 Watt, 120-277 Volt, 5000K CCT, E39 Base, LED Omni-Flob Lamp (HYLITE HL-OC-45W-E39-50K).....	92.91	
	EA			40 Watt, 5680 Lumens, Mogul Base E39, LED Directional Flood Lamp (HYLITE HL-IDL-40W-E39-50K).....	289.24	

<b>26 01 50 51-0332</b>				<b>LED Lamps, 2G11 Base</b> <small>(26 01 50 51-0112)</small>		
	EA			19 Watt, 1550 Lumens, 3500K CCT, 2G11 Base, Dimmable LED Lamp (Green Creative 14.5PLL/835/DIR).....	49.74	

<b>26 01 50 51-0334</b>				<b>LED Lamps, GX23 Or G23 Base</b> <small>(26 01 50 51-0112)</small>		
	EA			5 Watt, 580 Lumens, 2 Pin GX23 Base, Dimmable LED Lamp (Lunera HN-H-GX23-U-5W-840-G4).....	25.45	

<b>26 01 50 51-0336</b>				<b>LED Lamps, G24 Base</b> <small>(26 01 50 51-0112)</small>		
	EA			5.5 Watt, 500 Lumens, G24 Base, LED Lamp (Green Creative 5.5PLH/835/DIR/R).....	32.49	

**26 Electrical**  
**26 01 Operation and Maintenance of Electrical Systems**  
**26 01 50 Operation and Maintenance of Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**26 01 50 51-0338 LED Tubes (Fluorescent Lamp Replacement)** (26 01 50 51-0112)

26 01 50 51-0339 EA 2', 1,250 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	44.49	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.07	
26 01 50 51-0340 EA 2', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	57.15	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.07	
26 01 50 51-0341 EA 3', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	47.91	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.33	
26 01 50 51-0342 EA 4', 1,900 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	52.37	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.58	
26 01 50 51-0343 EA 4', 2,200 Lumens, 4000K CCT, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	57.11	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.58	
26 01 50 51-0344 EA 4', 2,539 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02018TBN).....	36.94	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.58	
26 01 50 51-0345 EA 2', 1,348 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Carson Technology CT-D02010TBN).....	35.39	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.07	
26 01 50 51-0346 EA 2', 1,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED9T8/L24/FG/835/BF).....	32.45	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.07	
26 01 50 51-0347 EA 3', 1,650 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED12T8/L36/FG/835/BF).....	33.13	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.33	
26 01 50 51-0348 EA 4', 1,700 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED14T8/L48/FG/835/BF).....	33.29	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.58	
26 01 50 51-0349 EA 4', 2,100 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Sylvania LED17T8/L48/FG/835/BF).....	34.41	
<i>For Multiple Lamps In Fixture, Deduct</i> .....	-4.58	

**26 01 50 51-0350 Filament LED Lamps** (26 01 50 51-0112)

26 01 50 51-0351 EA 7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	19.25	
26 01 50 51-0352 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	19.25	
26 01 50 51-0353 EA 4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	18.53	
26 01 50 51-0354 EA 4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	18.53	
26 01 50 51-0355 EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	19.68	
26 01 50 51-0356 EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	19.68	
26 01 50 51-0357 EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827).....	17.11	
26 01 50 51-0358 EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26).....	17.11	
26 01 50 51-0359 EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	17.54	
26 01 50 51-0360 EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A).....	20.68	
26 01 50 51-0361 EA 4.5 Watt, 120 Volt 450 Lumens ULTRA LED Filament Lamp (Sylvania 79521).....	24.73	

**26 01 50 51-0362 Other Lamps** (26 01 50 51-0112)

26 01 50 51-0363 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1).....	18.42	
26 01 50 51-0364 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	18.42	
26 01 50 51-0365 EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	18.42	
26 01 50 51-0366 EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	19.13	
26 01 50 51-0367 EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1).....	19.13	
26 01 50 51-0368 EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1).....	19.13	

**26 01 50 51-0369 LED Lamps, Light Engines, Round, LER Series** (26 01 50 51-0112)

26 01 50 51-0370 EA 5.5" Diameter, 17 Watt, 3000K CCT, Round LED Light Engine (Maxlite LER5.5A1730).....	60.14	
26 01 50 51-0371 EA 9 Watt, 120 Volt, 800 Lumens, 2700K, Omnidirectional Ultra LED A-line Lamp (Sylvania LED9A19/DIM/O/827/U).....	36.72	

**26 01 50 51-0372 Recycle Hazardous Lamps** (26 01 50 51)

Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 26 01 50 51-0001 for removal of lamps from fixtures.

26 01 50 51-0373 EA Recycle 2' Length Linear Fluorescent Lamps.....	1.72	
26 01 50 51-0374 EA Recycle 3' Length Linear Fluorescent Lamps.....	2.20	
26 01 50 51-0375 EA Recycle 4' Length Linear Fluorescent Lamps.....	2.69	
26 01 50 51-0376 EA Recycle 6' Length Linear Fluorescent Lamps.....	3.80	
26 01 50 51-0377 EA Recycle 8' Length Linear Fluorescent Lamps.....	4.77	
26 01 50 51-0378 EA Recycle Compact Fluorescent Lamps.....	4.39	
26 01 50 51-0379 EA Recycle U-Shaped Or Circular Fluorescent Lamps.....	4.39	
26 01 50 51-0380 EA Recycle High Intensity Discharge (HID) Lamps.....	6.94	

**26 01 50 52 Ballasts Replacement** (26 01 50)

**26 01 50 52-0001 Owner Supplied Ballasts** (26 01 50 52)

26 01 50 52-0002 EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	30.87	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	9.26	
26 01 50 52-0003 EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	38.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	11.57	
26 01 50 52-0004 EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	44.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	13.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0005 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	47.84	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.35	
26 01 50 52-0006 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast.....	54.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0007 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast.....	57.10	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.13	
<b>26 01 50 52-0008 High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52)</small>		
<b>26 01 50 52-0009 Magnetic High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0008)</small>		
<b>26 01 50 52-0010 Core And Coil High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>		
<b>26 01 50 52-0011 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0010)</small>		
26 01 50 52-0012 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	178.34	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0013 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	182.36	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0014 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	182.36	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0015 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	170.91	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0016 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	170.91	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0017 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	247.62	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0018 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	247.62	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0019 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	315.19	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0020 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	349.65	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
<b>26 01 50 52-0021 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0010)</small>		
26 01 50 52-0022 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	162.45	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0023 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	171.44	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0024 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	167.56	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0025 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	194.58	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0026 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	190.72	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0027 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	215.79	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0028 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	215.79	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0029 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	257.49	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0030 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	257.49	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0031 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	403.82	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0032 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	403.82	38.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
<b>26 01 50 52-0033 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0010)</small>		
26 01 50 52-0034 EA Single Mounting Bracket For Core And Coil Type .....	21.47	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.63	
26 01 50 52-0035 EA Double Mounting Bracket For Core And Coil Type .....	35.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.95	
<b>26 01 50 52-0036 F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>		
<b>26 01 50 52-0037 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0036)</small>		
26 01 50 52-0038 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	222.62	38.58
<i>For Pulse Start Ballast, Add</i>	16.86	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0039 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	233.77	38.58
<i>For Pulse Start Ballast, Add</i>	17.98	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	
26 01 50 52-0040 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast.....	214.17	38.58
<i>For Pulse Start Ballast, Add</i>	16.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.20	

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0041 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	246.38 19.24 16.20	38.58
26 01 50 52-0042 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	336.63 28.26 16.20	38.58
<b>26 01 50 52-0043 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0036)</small>		
26 01 50 52-0044 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	264.88 16.20	38.58
26 01 50 52-0045 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	282.27 16.20	38.58
<b>26 01 50 52-0046 Postline High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>		
<b>26 01 50 52-0047 Metal Halide, Postline High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0046)</small>		
26 01 50 52-0048 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	431.54 16.20	38.58
<b>26 01 50 52-0049 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0046)</small>		
26 01 50 52-0050 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	657.23 16.17	38.51
26 01 50 52-0051 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	731.34 16.17	38.51
26 01 50 52-0052 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	705.70 16.17	38.51
<b>26 01 50 52-0053 Indoor Enclosed High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>		
<b>26 01 50 52-0054 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0053)</small>		
26 01 50 52-0055 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	528.08 16.20	38.58
26 01 50 52-0056 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	597.47 16.20	38.58
26 01 50 52-0057 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	784.63 16.20	38.58
26 01 50 52-0058 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	780.60 16.20	38.58
26 01 50 52-0059 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,088.85 17.13	41.67
26 01 50 52-0060 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,088.85 17.13	41.67
26 01 50 52-0061 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	753.06 16.20	38.58
26 01 50 52-0062 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	883.50 16.20	38.58
<b>26 01 50 52-0063 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0053)</small>		
26 01 50 52-0064 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	973.19 16.20	38.58
26 01 50 52-0065 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	927.22 16.20	38.58
26 01 50 52-0066 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,187.85 16.20	38.58
26 01 50 52-0067 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,187.85 16.20	38.58
<b>26 01 50 52-0068 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>		
<b>26 01 50 52-0069 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0068)</small>		
26 01 50 52-0070 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	591.67 16.20	38.58
26 01 50 52-0071 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	637.99 16.20	38.58
26 01 50 52-0072 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	633.43 16.20	38.58
26 01 50 52-0073 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	664.46 16.20	38.58
26 01 50 52-0074 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,048.38 17.13	41.67
26 01 50 52-0075 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,285.34 17.13	41.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0076 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	978.58 16.20	38.58
26 01 50 52-0077 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	892.18 16.20	38.58
<b>26 01 50 52-0078 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0068)</small>		
26 01 50 52-0079 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	759.74 16.20	38.58
26 01 50 52-0080 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	818.16 16.20	38.58
26 01 50 52-0081 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,214.81 16.20	38.58
26 01 50 52-0082 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,047.22 16.20	38.58
<b>26 01 50 52-0083 Electronic High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0008)</small>		
<b>26 01 50 52-0084 Electronic Low Frequency High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0083)</small>		
26 01 50 52-0085 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.83 16.20	38.58
26 01 50 52-0086 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.83 16.20	38.58
26 01 50 52-0087 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.11 16.20	38.58
26 01 50 52-0088 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	684.43 16.20	38.58
26 01 50 52-0089 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	684.43 16.20	38.58
26 01 50 52-0090 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	684.43 16.20	38.58
26 01 50 52-0091 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	684.43 16.20	38.58
26 01 50 52-0092 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	684.43 16.20	38.58
<b>26 01 50 53 Lens and Accessory Replacement</b> <small>(26 01 50)</small>		
<b>26 01 50 53-0001 Lens and Accessory Replacement</b> <small>(26 01 50 53)</small>		
26 01 50 53-0002 EA Removal And Replacement Of Parabolic Aluminum Louver.....	92.40	
26 01 50 53-0003 EA Removal And Replacement Of Visor For Fixtures .....	220.02	
26 01 50 53-0004 EA Removal And Replacement Of Globe On Pole.....	235.04	
26 01 50 53-0005 EA Removal And Replacement Of Lenses For Flat Top Pole Fixtures.....	105.56	
26 01 50 53-0006 EA Removal And Replacement Of 1' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	37.26	
26 01 50 53-0007 EA Removal And Replacement Of 2' x 2' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	38.30	
26 01 50 53-0008 EA Removal And Replacement Of 2' x 4' Diffuser With 0.125" Thick Prismatic Acrylic Diffuser.....	42.80	
26 01 50 53-0009 EA Removal And Replacement Of Slide-On Lampholder..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.04 4.62	
26 01 50 53-0010 EA Removal And Replacement Of Screw Mount Lampholder..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.20 4.62	
26 01 50 53-0011 EA Removal And Replacement Of Medium Bi-Pin Lampholder ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.57 4.62	
26 01 50 53-0012 EA Removal And Replacement Of Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.68 4.62	
26 01 50 53-0013 EA Removal And Replacement Of Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.06 4.62	
26 01 50 53-0014 EA Removal And Replacement Of Compact Twin-Tube Lampholder, Snap-in..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.36 4.62	
26 01 50 53-0015 EA Removal And Replacement Of Exterior Light Globes.....	64.36	
<b>26 01 50 81 Luminaire Replacement</b> <small>(26 01 50)</small>		
<b>26 01 50 81-0001 Retrofit Lighting Fixtures</b> <small>(26 01 50 81)</small>		
<b>26 01 50 81-0002 LED Lighting Retrofits For Existing Fixtures</b> <small>(26 01 50 81-0001)</small>		
<b>26 01 50 81-0003 LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative)</b> <small>(26 01 50 81-0002)</small>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0004 EA 7" Round Downlight, 15 Watt, 2700K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/927) .....	119.47	
26 01 50 81-0005 EA 7" Round Downlight, 15 Watt, 3000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/930) .....	119.47	
26 01 50 81-0006 EA 7" Round Downlight, 15 Watt, 4000K CCT, LED Retrofit (GreenCreative 15SMPR7DIM/940) .....	119.47	
26 01 50 81-0007 EA 4" Diameter, 8.5 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827).....	101.80	
26 01 50 81-0008 EA 4" Diameter, 8.5 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830).....	101.80	

**26 Electrical**  
**26 01 Operation and Maintenance of Electrical Systems**  
**26 01 50 Operation and Maintenance of Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0009 EA 4" Diameter, 8.5 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840)	101.80	
26 01 50 81-0010 EA 6" Diameter, 11.6 Watt, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827)	109.24	
26 01 50 81-0011 EA 6" Diameter, 11.6 Watt, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830)	109.24	
26 01 50 81-0012 EA 6" Diameter, 11.6 Watt, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840)	109.24	
<b>26 01 50 81-0013 LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology) <small>(26 01 50 81-0002)</small></b>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0014 EA 2,300 Lumens, 23 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-20w)	324.99	
26 01 50 81-0015 EA 3,300 Lumens, 33 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-30w)	336.15	
26 01 50 81-0016 EA 4,400 Lumens, 44 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-40w)	347.31	
26 01 50 81-0017 EA 5,400 Lumens, 54 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-50w)	361.54	
26 01 50 81-0018 EA 6,500 Lumens, 65 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-60w)	394.08	
26 01 50 81-0019 EA 7,600 Lumens, 75 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-70w)	408.32	
26 01 50 81-0020 EA 8,600 Lumens, 86 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-80w)	439.00	
26 01 50 81-0021 EA 9,600 Lumens, 96 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-90w)	450.16	
26 01 50 81-0022 EA 10,700 Lumens, 107 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-100w)	464.39	
26 01 50 81-0023 EA 11,700 Lumens, 117 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-110w)	484.84	
26 01 50 81-0024 EA 12,800 Lumens, 128 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-120w)	507.45	
26 01 50 81-0025 EA 13,800 Lumens, 138 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-130w)	528.83	
26 01 50 81-0026 EA 14,900 Lumens, 149 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-140w)	539.99	
26 01 50 81-0027 EA 16,100 Lumens, 161 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-150w)	558.58	
26 01 50 81-0028 EA 17,200 Lumens, 172 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-160w)	581.80	
26 01 50 81-0029 EA 18,200 Lumens, 182 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-170w)	605.04	
26 01 50 81-0030 EA 19,300 Lumens, 193 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-180w)	640.37	
26 01 50 81-0031 EA 20,300 Lumens, 203 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-190w)	656.17	
26 01 50 81-0032 EA 21,400 Lumens, 214 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-200w)	684.35	
26 01 50 81-0033 EA 22,400 Lumens, 224 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-210w)	720.61	
26 01 50 81-0034 EA 23,500 Lumens, 235 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-220w)	739.21	
26 01 50 81-0035 EA 24,500 Lumens, 245 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-230w)	784.72	
26 01 50 81-0036 EA 25,600 Lumens, 256 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-240w)	825.63	
26 01 50 81-0037 EA 26,600 Lumens, 266 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-250w)	854.75	
26 01 50 81-0038 EA 27,700 Lumens, 277 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-260w)	894.73	
26 01 50 81-0039 EA 28,700 Lumens, 287 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-270w)	973.11	
26 01 50 81-0040 EA 29,800 Lumens, 298 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-280w)	982.41	
26 01 50 81-0041 EA 31,900 Lumens, 319 Watt, LED Site Retrofit Plate (Daylight Technology DL-S-300w)	1,007.48	
<b>26 01 50 81-0042 LED Lighting Retrofits For Existing Fixtures (Optilumen) <small>(26 01 50 81-0002)</small></b>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0043 EA 20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35)	145.81	
Note: Fits 1' x 4' Troffer/Strip		
26 01 50 81-0044 EA 20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40)	145.81	
Note: Fits 1' x 4' Troffer/Strip		
26 01 50 81-0045 EA 20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50)	145.81	
Note: Fits 1' x 4' Troffer/Strip		
26 01 50 81-0046 EA 30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35)	150.46	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0047 EA 2 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2415M-40)	150.46	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0048 EA 2 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2415M-50)	150.46	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0049 EA 2 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2418M-35)	159.75	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0050 EA 2 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2418M-40)	159.75	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0051 EA 2 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2418M-50)	159.75	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0052 EA 3 x 42", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3415M-35)	150.46	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0053 EA 3 x 42", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3415M-40)	150.46	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0054 EA 3 x 42", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3415M-50)	150.46	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0055 EA 3 x 42", 40 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3418M-35)	159.75	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0056 EA 3 x 42", 40 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3418M-40)	159.75	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0057 EA 3 x 42", 40 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3418M-50)	159.75	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0058 EA 3 x 42", 60 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3424M-35)	178.35	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0059 EA 3 x 42", 60 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3424M-40)	178.35	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0060 EA 3 x 42", 60 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3424M-50)	178.35	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 81-0061 EA 1 x 21", 10 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT1209M-35)	145.81	
Note: Fits 1' x 2' Troffer/Strip		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0062 EA 1 x 21", 10 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT1209M-40).....	145.81	
Note: Fits 1' x 2' Troffer/Strip		
26 01 50 81-0063 EA 1 x 21", 10 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT1209M-50).....	145.81	
Note: Fits 1' x 2' Troffer/Strip		
26 01 50 81-0064 EA 2 x 21", 22 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT2209M-35).....	145.81	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0065 EA 2 x 21", 22 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT2209M-40).....	145.81	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0066 EA 2 x 21", 22 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT2209M-50).....	145.81	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0067 EA 3 x 21", 20 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3209M-35).....	150.46	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0068 EA 3 x 21", 20 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3209M-40).....	150.46	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0069 EA 3 x 21", 20 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3209M-50).....	150.46	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0070 EA 3 x 21", 30 Watt, 3500K CCT, LED Retrofit Kit (Optilumen RKT3210M-35).....	156.03	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0071 EA 3 x 21", 30 Watt, 4000K CCT, LED Retrofit Kit (Optilumen RKT3210M-40).....	156.03	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 81-0072 EA 3 x 21", 30 Watt, 5000K CCT, LED Retrofit Kit (Optilumen RKT3210M-50).....	156.03	
Note: Fits 2' x 2' Troffer/Strip		
<b>26 01 50 81-0073 LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG)</b> <small>(26 01 50 81-0002)</small>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0074 EA 34 Watt, 3500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN).....	298.04	
26 01 50 81-0075 EA 34 Watt, 4000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN).....	298.04	
26 01 50 81-0076 EA 26 Watt, 3500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN).....	271.08	
26 01 50 81-0077 EA 26 Watt, 4000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN).....	271.08	
26 01 50 81-0078 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV).....	145.55	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0079 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV).....	145.55	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0080 EA 31 Watt, 4,050 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV).....	163.21	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0081 EA 31 Watt, 4,050 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV).....	163.21	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0082 EA 25 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV).....	176.23	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0083 EA 25 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV).....	176.23	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0084 EA 31 Watt, 3,250 Lumens, 3500K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV).....	180.87	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0085 EA 31 Watt, 3,250 Lumens, 4000K CCT, Lay-In Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV).....	180.87	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 81-0086 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-2BDK-25-35-3120).....	118.58	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0087 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-2BDK-25-40-3120).....	118.58	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0088 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, Retrofit Board Kits (LG LGE-4BDK-31-35-3880).....	129.74	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0089 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, Retrofit Board Kits (LG LGE-4BDK-31-40-3880).....	129.74	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0090 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L).....	121.37	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0091 EA 2' x 2' 2-Board, 25 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L).....	121.37	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0092 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 3500K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L).....	132.53	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0093 EA 2' x 4' 4-Board, 31 Watt, 3,120 Lumens, 4000K CCT, With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L).....	132.53	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0094 EA 6" Diameter, 16 Watt, 1,450 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450).....	120.44	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0095 EA 6" Diameter, 16 Watt, 1,450 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450).....	120.44	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0096 EA 8" Diameter, 22 Watt, 2,000 Lumens, 3500K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000).....	128.81	
Note: No sensor, ZigBee ready driver		
26 01 50 81-0097 EA 8" Diameter, 22 Watt, 2,000 Lumens, 4000K CCT, Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000).....	128.81	
Note: No sensor, ZigBee ready driver		
<b>26 01 50 81-0098 LED Lighting Retrofit Accessories (LG)</b> <small>(26 01 50 81-0002)</small>		
See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0099 EA Dongle (LG LGE-DONGLE).....	26.39	
26 01 50 81-0100 EA 1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B).....	143.60	17.57
26 01 50 81-0101 EA 2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B).....	150.62	21.08
26 01 50 81-0102 EA 1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B).....	182.34	17.57

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0103 EA 2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B) .....	189.36	21.08
26 01 50 81-0104 EA Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....	95.90	14.06
26 01 50 81-0105 EA Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP).....	36.09	14.06
26 01 50 81-0106 EA Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE).....	38.36	14.06
26 01 50 81-0107 EA Wireless Interface Module (LG PIHN-W005A).....	93.49	21.08
Note: includes dongle		
<b>26 01 50 81-0108 Retrofit Existing (T12) Fluorescent Fixtures</b> <small>(26 01 50 81-0001)</small>		
Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal.		
<b>26 01 50 81-0109 Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector</b> <small>(26 01 50 81-0108)</small>		
Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0110 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp.....	115.86	
<i>For Specular Ballast Cover, Add</i>	12.39	
26 01 50 81-0111 EA Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps.....	122.15	
<i>For Specular Ballast Cover, Add</i>	13.65	
26 01 50 81-0112 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps.....	163.31	
<i>For Specular Ballast Cover, Add</i>	21.88	
26 01 50 81-0113 EA Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps.....	184.79	
<i>For Specular Ballast Cover, Add</i>	26.18	
<b>26 01 50 81-0114 Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector</b> <small>(26 01 50 81-0108)</small>		
Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0115 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp.....	121.92	
<i>For Specular Reflector, Add</i>	13.60	
26 01 50 81-0116 EA Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	128.93	
<i>For Specular Reflector, Add</i>	15.01	
26 01 50 81-0117 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	171.78	
<i>For Specular Reflector, Add</i>	23.58	
26 01 50 81-0118 EA Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps.....	213.95	
<i>For Specular Reflector, Add</i>	32.01	
<b>26 01 50 81-0119 Retrofit Existing (T12) Troffer Style Fluorescent Fixtures</b> <small>(26 01 50 81-0108)</small>		
Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
26 01 50 81-0120 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps.....	153.06	
<i>For Specular Reflector, Add</i>	16.75	
26 01 50 81-0121 EA Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps.....	159.35	
<i>For Specular Reflector, Add</i>	18.01	
26 01 50 81-0122 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps.....	162.98	
<i>For Specular Reflector, Add</i>	18.73	
26 01 50 81-0123 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps.....	180.37	
<i>For Specular Reflector, Add</i>	22.21	
26 01 50 81-0124 EA Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps.....	214.84	
<i>For Specular Reflector, Add</i>	29.11	
26 01 50 81-0125 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps.....	166.61	
<i>For Specular Reflector, Add</i>	19.46	
26 01 50 81-0126 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps.....	180.98	
<i>For Specular Reflector, Add</i>	22.33	
26 01 50 81-0127 EA Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps.....	192.93	
<i>For Specular Reflector, Add</i>	24.72	
<b>26 01 50 81-0128 Retrofit Existing Recessed Lay-In/Troffer Fixtures</b> <small>(26 01 50 81-0001)</small>		
<b>26 01 50 81-0129 Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia)</b> <small>(26 01 50 81-0128)</small>		
Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0130 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	178.33	
26 01 50 81-0131 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	178.33	
26 01 50 81-0132 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	178.33	
26 01 50 81-0133 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	192.15	
26 01 50 81-0134 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	178.33	
26 01 50 81-0135 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	178.33	
26 01 50 81-0136 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	178.33	
26 01 50 81-0137 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	192.15	





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0138	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....	179.33	
26 01 50 81-0139	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....	179.33	
26 01 50 81-0140	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....	179.33	
26 01 50 81-0141	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....	193.15	
26 01 50 81-0142	EA	2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	179.33	
26 01 50 81-0143	EA	2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	179.33	
26 01 50 81-0144	EA	2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	179.33	
26 01 50 81-0145	EA	2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	193.15	
<b>26 01 50 81-0146</b>		<b>LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED)</b> <small>(26 01 50 81-0128)</small> Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0147	EA	2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025) .....	238.55	
26 01 50 81-0148	EA	4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045) .....	247.95	
<b>26 01 50 81-0149</b>		<b>LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™)</b> <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0150	EA	1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L) .....	364.50	
26 01 50 81-0151	EA	2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L) .....	372.93	
26 01 50 81-0152	EA	2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L) .....	364.50	
26 01 50 81-0153	EA	3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L) .....	372.93	
26 01 50 81-0154	EA	3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L) .....	415.10	
26 01 50 81-0155	EA	4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L) .....	427.76	
26 01 50 81-0156	EA	5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L) .....	457.27	
<b>26 01 50 81-0157</b>		<b>LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion)</b> <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0158	EA	3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST) .....	338.69	
26 01 50 81-0159	EA	3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST) .....	350.46	
26 01 50 81-0160	EA	3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST) .....	353.98	
26 01 50 81-0161	EA	3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST) .....	365.74	
26 01 50 81-0162	EA	2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST) .....	259.29	
26 01 50 81-0163	EA	4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST) .....	264.87	
26 01 50 81-0164	EA	3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST) .....	273.81	
26 01 50 81-0165	EA	4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST) .....	279.40	
26 01 50 81-0166	EA	6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST) .....	341.98	
26 01 50 81-0167	EA	8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST) .....	404.56	
<b>26 01 50 81-0168</b>		<b>Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)</b> <small>(26 01 50 81-0128)</small> Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0169	EA	1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components) .....	302.40	

**26 Electrical**  
**26 01 Operation and Maintenance of Electrical Systems**  
**26 01 50 Operation and Maintenance of Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0170 EA 1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	229.52	
26 01 50 81-0171 EA 2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	310.27	
26 01 50 81-0172 EA 2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	237.32	
26 01 50 81-0173 EA 3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	324.48	
26 01 50 81-0174 EA 3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	257.27	
26 01 50 81-0175 EA 1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	355.10	
26 01 50 81-0176 EA 1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	282.03	
26 01 50 81-0177 EA 2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	362.46	
26 01 50 81-0178 EA 2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	289.46	
26 01 50 81-0179 EA 3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	376.49	
26 01 50 81-0180 EA 3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components).....	309.30	
<b>26 01 50 81-0181 LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT)</b> <small>(26 01 50 81-0128)</small> Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 01 50 81-0182 EA 3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT).....	661.10	
26 01 50 81-0183 EA 4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT).....	733.01	
<b>26 01 50 81-0184 Retrofit Existing HID Fixtures</b> <small>(26 01 50 81-0001)</small>		
26 01 50 81-0185 EA Tear Drop LED Retrofit Kit (Holophane LTDRL2 P35S 40K AS BK TDRD 3 P).....	1,492.17	
<b>26 01 50 81-0186 LED Lighting Retrofits For Existing Fluorescent Fixtures</b> <small>(26 01 50 81-0001)</small> Note: Excludes recycling or disposal of lamps and ballasts.		
<b>26 01 50 81-0187 LED Lightbar Retrofit For Existing Fluorescent Fixtures (Lithonia)</b> <small>(26 01 50 81-0186)</small>		
26 01 50 81-0188 EA 2' Length, 2 Bar, 2,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 2 2000LMHE 80CRI 35K MIN10 GZT MVOLT).....	133.86	
For >25 To 50, Deduct	-6.69	
For >50 To 100, Deduct	-11.77	
For >100, Deduct	-20.32	
26 01 50 81-0189 EA 2' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 2FT 4 8000LMHE 80CRI MIN10 GZT MVOLT).....	189.20	
For >25 To 50, Deduct	-9.46	
For >50 To 100, Deduct	-15.92	
For >100, Deduct	-25.85	
26 01 50 81-0190 EA 3' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	145.22	
For >25 To 50, Deduct	-7.26	
For >50 To 100, Deduct	-12.72	
For >100, Deduct	-21.84	
26 01 50 81-0191 EA 3' Length, 1 Bar, 1,600 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 3FT 1 1600LMHE 80CRI 35K MIN10 GZT MVOLT).....	134.43	
For >25 To 50, Deduct	-6.72	
For >50 To 100, Deduct	-11.91	
For >100, Deduct	-20.76	
26 01 50 81-0192 EA 4' Length, 2 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	172.92	
For >25 To 50, Deduct	-8.65	
For >50 To 100, Deduct	-14.89	
For >100, Deduct	-24.99	
26 01 50 81-0193 EA 4' Length, 4 Bar, 6,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 6000LMHE 80CRI 35K MIN10 GZT MVOLT).....	220.87	
For >25 To 50, Deduct	-11.04	
For >50 To 100, Deduct	-18.49	
For >100, Deduct	-29.79	
26 01 50 81-0194 EA 4' Length, 1 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	144.94	
For >25 To 50, Deduct	-7.25	
For >50 To 100, Deduct	-12.80	
For >100, Deduct	-22.20	
26 01 50 81-0195 EA 4' Length, 1 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 1 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	144.94	
For >25 To 50, Deduct	-7.25	
For >50 To 100, Deduct	-12.80	
For >100, Deduct	-22.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0196 EA 4' Length, 4 Bar, 8,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 4 8000LMHE 80CRI 35K MIN10 GZT MVOLT).....	182.51	
<i>For &gt;25 To 50, Deduct</i>	-9.13	
<i>For &gt;50 To 100, Deduct</i>	-15.61	
<i>For &gt;100, Deduct</i>	-25.95	
26 01 50 81-0197 EA 4' Length, 2 Bar, 4,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 4000LMHE 80CRI 35K MIN10 GZT MVOLT).....	156.93	
<i>For &gt;25 To 50, Deduct</i>	-7.85	
<i>For &gt;50 To 100, Deduct</i>	-13.70	
<i>For &gt;100, Deduct</i>	-23.39	
26 01 50 81-0198 EA 4' Length, 2 Bar, 3,000 Lumens, 3500K CCT, Lightbar Kit LED Retrofit System (Lithonia LBK 4FT 2 3000LMHE 80CRI 35K MIN10 GZT MVOLT).....	156.93	
<i>For &gt;25 To 50, Deduct</i>	-7.85	
<i>For &gt;50 To 100, Deduct</i>	-13.70	
<i>For &gt;100, Deduct</i>	-23.39	
<b>26 01 50 81-0199 LED Retrofit For Existing Fluorescent Fixtures (Lithonia)</b> <small>(26 01 50 81-0186)</small>		
26 01 50 81-0200 EA 1'x 4', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	303.64	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
<i>For &gt;25 To 50, Deduct</i>	-15.18	
<i>For &gt;50 To 100, Deduct</i>	-24.70	
<i>For &gt;100, Deduct</i>	-38.07	
26 01 50 81-0201 EA 1'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2).....	326.32	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
<i>For &gt;25 To 50, Deduct</i>	-16.32	
<i>For &gt;50 To 100, Deduct</i>	-26.40	
<i>For &gt;100, Deduct</i>	-40.33	
26 01 50 81-0202 EA 2'x 2', 3,300 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R 33LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	343.27	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
<i>For &gt;25 To 50, Deduct</i>	-17.16	
<i>For &gt;50 To 100, Deduct</i>	-27.67	
<i>For &gt;100, Deduct</i>	-42.03	
26 01 50 81-0203 EA 2'x 2', 4,000 Lumens, 3500K CCT, Square Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT2R F 40LHE SDSMT MVOLT EZ1 LP835 NLTAIR2).....	369.77	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
<i>For &gt;25 To 50, Deduct</i>	-18.49	
<i>For &gt;50 To 100, Deduct</i>	-29.66	
<i>For &gt;100, Deduct</i>	-44.68	
26 01 50 81-0204 EA 2'x 4', 4,000 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 40LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	398.22	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
<i>For &gt;25 To 50, Deduct</i>	-19.91	
<i>For &gt;50 To 100, Deduct</i>	-32.18	
<i>For &gt;100, Deduct</i>	-49.06	
26 01 50 81-0205 EA 2'x 4', 4,800 Lumens, 3500K CCT, Curved Smooth Diffuser, Dimming LED Relight Assembly (Lithonia 2BLT4R 48LHE ADSMT MVOLT EZ1 LP835 NLTAIR2 RIO).....	428.98	
<i>For nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control (nLight RES7), Add</i>	191.26	
<i>For nLight AIR radio module without sensor (nLight RIO), Add</i>	124.32	
<i>For &gt;25 To 50, Deduct</i>	-21.45	
<i>For &gt;50 To 100, Deduct</i>	-34.48	
<i>For &gt;100, Deduct</i>	-52.14	
<b>26 01 50 81-0206 LED Lighting Retrofits For Existing Fluorescent Fixtures (ELED Lights)</b> <small>(26 01 50 81-0186)</small>		
<small>Note: Includes removal of existing fluorescent lamps, installing LED strip lighting and trim. Excludes recycling or disposal of lamps. See CSI section 02 84 16 00-0003 for ballast recycling.</small>		
26 01 50 81-0207 EA 2' Dimmable, 20 Watts, 2900 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W40) .....	120.36	
<small>Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver</small>		
<i>For &gt;25 To 50, Deduct</i>	-6.02	
<i>For &gt;50 To 100, Deduct</i>	-10.76	
<i>For &gt;100, Deduct</i>	-18.97	
26 01 50 81-0208 EA 2' Dimmable, 20 Watts, 2900 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X2STRPD20W50) .....	120.36	
<small>Note: Kit contains two 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver</small>		
<i>For &gt;25 To 50, Deduct</i>	-6.02	
<i>For &gt;50 To 100, Deduct</i>	-10.76	
<i>For &gt;100, Deduct</i>	-18.97	

**26 Electrical**  
**26 01 Operation and Maintenance of Electrical Systems**  
**26 01 50 Operation and Maintenance of Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0209	EA		4' Dimmable, 32 Watts, 5000 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W40).....	155.41	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-7.77	
			<i>For &gt;50 To 100, Deduct</i>	-13.58	
			<i>For &gt;100, Deduct</i>	-23.24	
26 01 50 81-0210	EA		4' Dimmable, 32 Watts, 5000 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD32W50).....	155.41	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-7.77	
			<i>For &gt;50 To 100, Deduct</i>	-13.58	
			<i>For &gt;100, Deduct</i>	-23.24	
26 01 50 81-0211	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30).....	155.52	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-7.78	
			<i>For &gt;50 To 100, Deduct</i>	-13.59	
			<i>For &gt;100, Deduct</i>	-23.25	
26 01 50 81-0212	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN30F).....	168.09	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-8.40	
			<i>For &gt;50 To 100, Deduct</i>	-14.53	
			<i>For &gt;100, Deduct</i>	-24.51	
26 01 50 81-0213	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35).....	155.52	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-7.78	
			<i>For &gt;50 To 100, Deduct</i>	-13.59	
			<i>For &gt;100, Deduct</i>	-23.25	
26 01 50 81-0214	EA		4' Dimmable, 35 Watts, 5500 Lumens, 3500K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN35F).....	168.09	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-8.40	
			<i>For &gt;50 To 100, Deduct</i>	-14.53	
			<i>For &gt;100, Deduct</i>	-24.51	
26 01 50 81-0215	EA		4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40).....	155.52	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-7.78	
			<i>For &gt;50 To 100, Deduct</i>	-13.59	
			<i>For &gt;100, Deduct</i>	-23.25	
26 01 50 81-0216	EA		4' Dimmable, 35 Watts, 5500 Lumens, 4000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN40F).....	168.09	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-8.40	
			<i>For &gt;50 To 100, Deduct</i>	-14.53	
			<i>For &gt;100, Deduct</i>	-24.51	
26 01 50 81-0217	EA		4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50).....	155.52	
			Note: Kit contains four 2-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-7.78	
			<i>For &gt;50 To 100, Deduct</i>	-13.59	
			<i>For &gt;100, Deduct</i>	-23.25	
26 01 50 81-0218	EA		4' Dimmable, 35 Watts, 5500 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4STRPUSA035UN50F).....	168.09	
			Note: Kit contains four 2-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-8.40	
			<i>For &gt;50 To 100, Deduct</i>	-14.53	
			<i>For &gt;100, Deduct</i>	-24.51	
26 01 50 81-0219	EA		4' Dimmable, 46 Watts, 6800 Lumens, 5000K, Ultra High Lumen Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 2X4STRPD46W50).....	167.98	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-8.40	
			<i>For &gt;50 To 100, Deduct</i>	-14.52	
			<i>For &gt;100, Deduct</i>	-24.50	
26 01 50 81-0220	EA		4' Dimmable, 31 Watts, 5730 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40).....	194.89	
			Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-9.74	
			<i>For &gt;50 To 100, Deduct</i>	-16.54	
			<i>For &gt;100, Deduct</i>	-27.19	
26 01 50 81-0221	EA		4' Dimmable, 31 Watts, 5730 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F).....	210.60	
			Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
			<i>For &gt;25 To 50, Deduct</i>	-10.53	
			<i>For &gt;50 To 100, Deduct</i>	-17.72	
			<i>For &gt;100, Deduct</i>	-28.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 81-0222 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	194.89	
Note: Kit contains two 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-9.74	
For >50 To 100, Deduct	-16.54	
For >100, Deduct	-27.19	
26 01 50 81-0223 EA 4' Dimmable, 31 Watts, 5730 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F) .....	210.60	
Note: Kit contains two 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-10.53	
For >50 To 100, Deduct	-17.72	
For >100, Deduct	-28.76	
26 01 50 81-0224 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS BLD-AM20D-480800) .....	196.16	
Note: 90-minute emergency battery with DIP switch-selectable power output of 10 Watts, 15 Watts, or 20 Watts		
For >25 To 50, Deduct	-9.81	
For >50 To 100, Deduct	-15.10	
For >100, Deduct	-21.16	
26 01 50 81-0225 EA 20 Watts, Emergency Battery Backup, For Use With 2' And 4' Linear LED Retrofit Kits (ELEDLIGHTS EM-HM-20W).....	180.25	
Note: 90-minute emergency battery with power output of 20 Watts		
For >25 To 50, Deduct	-9.01	
For >50 To 100, Deduct	-13.90	
For >100, Deduct	-19.57	
26 01 50 81-0226 EA 8' Dimmable, 46 Watts, 7400 Lumens, 5000K, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD46W50) .....	202.08	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-10.10	
For >50 To 100, Deduct	-17.66	
For >100, Deduct	-30.22	
26 01 50 81-0227 EA 8' Dimmable, 49 Watts, 6680 Lumens, 5000K, Frosted Lens, Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4X4STRPD49W50F) .....	209.94	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-10.50	
For >50 To 100, Deduct	-18.25	
For >100, Deduct	-31.01	
26 01 50 81-0228 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40) .....	287.14	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-14.36	
For >50 To 100, Deduct	-24.04	
For >100, Deduct	-38.73	
26 01 50 81-0229 EA 8' Dimmable, 64 Watts, 11850 Lumens, 4000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD40F) .....	318.58	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-15.93	
For >50 To 100, Deduct	-26.40	
For >100, Deduct	-41.87	
26 01 50 81-0230 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50).....	287.14	
Note: Kit contains four 4-foot magnetic linear LED strips, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-14.36	
For >50 To 100, Deduct	-24.04	
For >100, Deduct	-38.73	
26 01 50 81-0231 EA 8' Dimmable, 64 Watts, 11850 Lumens, 5000K, Frosted Lens, High Efficacy Magnetic Linear LED Retrofit Kit (ELEDLIGHTS 4C3STRP031DD50F) .....	318.58	
Note: Kit contains four 4-foot magnetic linear LED strips, frosted lens covers, connectors, and magnetic-mount LED driver		
For >25 To 50, Deduct	-15.93	
For >50 To 100, Deduct	-26.40	
For >100, Deduct	-41.87	

## 26 05 Common Work Results for Electrical <sup>(26)</sup>

### 26 05 13 Medium-Voltage Cables <sup>(26 05)</sup>

#### 26 05 13 16 Medium-Voltage, Single-and Multi-Conductor Cables <sup>(26 05 13)</sup>

##### 26 05 13 16-0001 Wire And Cable <sup>(26 05 13 16)</sup>

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

##### 26 05 13 16-0002 5 KV Cable <sup>(26 05 13 16-0001)</sup>

##### 26 05 13 16-0003 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct <sup>(26 05 13 16-0002)</sup>

26 05 13 16-0004 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,227.30	1,175.05
26 05 13 16-0005 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,951.26	1,283.04
26 05 13 16-0006 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,869.44	1,449.64
26 05 13 16-0007 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,570.15	1,786.01
26 05 13 16-0008 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,611.02	2,011.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0009 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,453.98	2,232.39
26 05 13 16-0010 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,764.83	2,508.32
26 05 13 16-0011 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	13,874.84	2,790.62
26 05 13 16-0012 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	16,212.60	3,331.93
26 05 13 16-0013 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	20,301.53	3,916.60
26 05 13 16-0014 MLF 750 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	29,654.43	4,616.14
26 05 13 16-0015 MLF 1,000 MCM, XLP, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	39,014.72	5,315.34
<b>26 05 13 16-0016 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)</b>		
Note: Excludes excavation.		
26 05 13 16-0017 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,080.43	
26 05 13 16-0018 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,534.29	
26 05 13 16-0019 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,035.91	
26 05 13 16-0020 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,171.81	
26 05 13 16-0021 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,649.54	
26 05 13 16-0022 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,214.86	
26 05 13 16-0023 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,835.91	
26 05 13 16-0024 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,522.56	
26 05 13 16-0025 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,853.60	
26 05 13 16-0026 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,412.98	
<b>26 05 13 16-0027 Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) (26 05 13 16-0002)</b>		
26 05 13 16-0028 MLF #6 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,236.03	742.20
26 05 13 16-0029 MLF #4 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,830.74	795.79
26 05 13 16-0030 MLF #2 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,884.19	1,006.34
26 05 13 16-0031 MLF 1/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,308.80	1,221.68
26 05 13 16-0032 MLF 2/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,343.67	1,434.14
26 05 13 16-0033 MLF 3/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,173.75	1,640.09
26 05 13 16-0034 MLF 4/0 AWG, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,484.05	1,902.97
26 05 13 16-0035 MLF 250 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	13,176.37	2,394.05
26 05 13 16-0036 MLF 350 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	15,826.06	3,029.22
26 05 13 16-0037 MLF 500 MCM, XLP, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	20,490.37	3,805.93
<b>26 05 13 16-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 16-0002)</b>		
26 05 13 16-0039 MLF 1/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,078.16	2,341.73
26 05 13 16-0040 MLF 2/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	10,290.74	2,375.38
26 05 13 16-0041 MLF 3/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,503.34	2,409.03
26 05 13 16-0042 MLF 4/0 AWG, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,958.58	2,462.28
26 05 13 16-0043 MLF 350 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	14,105.16	2,556.20
26 05 13 16-0044 MLF 500 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	19,592.75	2,678.93
26 05 13 16-0045 MLF 750 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	29,864.03	3,348.67
26 05 13 16-0046 MLF 1,000 MCM, 5 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct.....	34,803.82	4,464.95
<b>26 05 13 16-0047 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed In Duct (26 05 13 16-0002)</b>		
26 05 13 16-0048 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	4,459.47	1,175.05
26 05 13 16-0049 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	5,265.13	1,283.04
26 05 13 16-0050 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	6,273.60	1,449.64
26 05 13 16-0051 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	7,201.12	1,617.74
26 05 13 16-0052 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	8,129.10	1,786.01
26 05 13 16-0053 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	9,255.96	2,011.21
26 05 13 16-0054 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	11,331.09	2,232.39
26 05 13 16-0055 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	12,753.73	2,508.32
26 05 13 16-0056 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	15,116.56	2,790.62
26 05 13 16-0057 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	17,631.46	3,331.93
26 05 13 16-0058 MLF 500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	22,193.34	3,916.60
26 05 13 16-0059 MLF 750 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	32,915.72	4,616.14
26 05 13 16-0060 MLF 1,000 MCM, EPR, 5 KV, Shielded, Single Copper Conductor Cable, Installed In Duct.....	43,645.46	5,315.34
<b>26 05 13 16-0061 Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Direct Burial (26 05 13 16-0002)</b>		
Note: Excludes excavation.		
26 05 13 16-0062 MLF #6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,312.61	
26 05 13 16-0063 MLF #4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	4,848.16	
26 05 13 16-0064 MLF #2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	5,440.07	
26 05 13 16-0065 MLF #1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,086.05	
26 05 13 16-0066 MLF 1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	6,730.75	
26 05 13 16-0067 MLF 2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,294.48	
26 05 13 16-0068 MLF 3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,091.97	
26 05 13 16-0069 MLF 4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	9,824.81	
26 05 13 16-0070 MLF 250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	11,764.28	
26 05 13 16-0071 MLF 350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	13,072.47	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 16-0072	MLF	500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	16,304.80	
<b>26 05 13 16-0073</b>		<b>Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation, Installed On Poles (Aerial) <small>(26 05 13 16-0073)</small></b>		
26 05 13 16-0074	MLF	#6 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	3,468.20	742.20
26 05 13 16-0075	MLF	#4 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	4,144.61	795.79
26 05 13 16-0076	MLF	#2 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	5,288.35	1,006.34
26 05 13 16-0077	MLF	#1 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,076.07	1,113.22
26 05 13 16-0078	MLF	1/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,867.75	1,221.68
26 05 13 16-0079	MLF	2/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	7,988.61	1,434.14
26 05 13 16-0080	MLF	3/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	10,050.86	1,640.09
26 05 13 16-0081	MLF	4/0 AWG, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	11,472.95	1,902.97
26 05 13 16-0082	MLF	250 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,418.09	2,394.05
26 05 13 16-0083	MLF	350 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,244.93	3,029.22
26 05 13 16-0084	MLF	500 MCM, EPR, 5 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	22,382.18	3,805.93
<b>26 05 13 16-0085</b>		<b>15 KV Cable <small>(26 05 13 16-0085)</small></b>		
<b>26 05 13 16-0086</b>		<b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0086)</small></b>		
<b>26 05 13 16-0087</b>		<b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0087)</small></b>		
26 05 13 16-0088	MLF	#4 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,040.60	2,341.73
26 05 13 16-0089	MLF	#2 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,688.78	2,341.73
26 05 13 16-0090	MLF	#1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,936.02	2,341.73
26 05 13 16-0091	MLF	1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,741.44	2,341.73
26 05 13 16-0092	MLF	2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,505.91	2,341.73
26 05 13 16-0093	MLF	3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,045.52	2,444.36
26 05 13 16-0094	MLF	4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	13,345.85	2,444.36
26 05 13 16-0095	MLF	250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	15,263.87	2,556.20
26 05 13 16-0096	MLF	350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	17,174.66	2,616.14
26 05 13 16-0097	MLF	500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	21,045.57	2,946.83
<b>26 05 13 16-0098</b>		<b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial <small>(26 05 13 16-0098)</small></b> Note: Excludes excavation.		
26 05 13 16-0099	MLF	#1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	7,417.04	
26 05 13 16-0100	MLF	1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,222.46	
26 05 13 16-0101	MLF	2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	8,986.93	
26 05 13 16-0102	MLF	3/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,558.91	
26 05 13 16-0103	MLF	4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	10,859.23	
26 05 13 16-0104	MLF	250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	12,916.13	
26 05 13 16-0105	MLF	350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	14,830.61	
26 05 13 16-0106	MLF	500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial.....	18,366.65	
<b>26 05 13 16-0107</b>		<b>Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial) <small>(26 05 13 16-0107)</small></b>		
26 05 13 16-0108	MLF	#1 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	6,861.92	1,060.26
26 05 13 16-0109	MLF	1/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	8,090.67	1,221.68
26 05 13 16-0110	MLF	2/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	9,412.28	1,434.14
26 05 13 16-0111	MLF	3/0 AWG, XLP, 15 KV, Installed On Poles (Aerial), Shielded, Single Copper Conductor, 133% Insulation Cable.....	11,235.69	1,640.09
26 05 13 16-0112	MLF	4/0 AWG, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	12,225.26	1,902.97
26 05 13 16-0113	MLF	250 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	14,682.69	2,215.30
26 05 13 16-0114	MLF	350 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	17,403.50	2,581.39
26 05 13 16-0115	MLF	500 MCM, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial).....	21,541.76	2,998.53
<b>26 05 13 16-0116</b>		<b>Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable <small>(26 05 13 16-0116)</small></b>		
<b>26 05 13 16-0117</b>		<b>Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct <small>(26 05 13 16-0117)</small></b>		
26 05 13 16-0118	MLF	#4 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	9,614.13	2,341.73
26 05 13 16-0119	MLF	#2 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,378.98	2,341.73
26 05 13 16-0120	MLF	#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	10,670.73	2,341.73
26 05 13 16-0121	MLF	1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	11,621.13	2,341.73
26 05 13 16-0122	MLF	2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	12,523.20	2,341.73
26 05 13 16-0123	MLF	3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,293.79	2,444.36
26 05 13 16-0124	MLF	4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	14,648.17	2,444.36
26 05 13 16-0125	MLF	250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	16,861.07	2,556.20
26 05 13 16-0126	MLF	350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	19,088.83	2,616.14
26 05 13 16-0127	MLF	500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed In Duct.....	23,507.70	2,946.83

**26 Electrical****26 05 Common Work Results for Electrical****26 05 13 Medium-Voltage Cables**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 05 13 16-0128	<b>Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial</b> (26 05 13 16-0116)		
	Note: Excludes excavation.		
26 05 13 16-0129	MLF	#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	8,151.75
26 05 13 16-0130	MLF	1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	9,102.14
26 05 13 16-0131	MLF	2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	10,004.21
26 05 13 16-0132	MLF	3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	11,807.18
26 05 13 16-0133	MLF	4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	12,161.55
26 05 13 16-0134	MLF	250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	14,508.67
26 05 13 16-0135	MLF	350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	16,734.28
26 05 13 16-0136	MLF	500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Direct Burial	20,828.78
26 05 13 16-0137	<b>Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)</b> (26 05 13 16-0116)		
26 05 13 16-0138	MLF	#1 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	7,596.63
26 05 13 16-0139	MLF	1/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	8,970.35
26 05 13 16-0140	MLF	2/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	10,429.56
26 05 13 16-0141	MLF	3/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	12,483.96
26 05 13 16-0142	MLF	4/0 AWG, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	13,527.58
26 05 13 16-0143	MLF	250 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	16,279.88
26 05 13 16-0144	MLF	350 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	19,317.67
26 05 13 16-0145	MLF	500 MCM, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable, Installed On Poles (Aerial)	24,003.89
26 05 13 16-0146	<b>15 KV Non-Shielded Single Copper Conductor</b> (26 05 13 16-0085)		
26 05 13 16-0147	MLF	1/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	12,507.62
26 05 13 16-0148	MLF	2/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	10,989.81
26 05 13 16-0149	MLF	3/0 AWG, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	15,981.95
26 05 13 16-0150	MLF	350 MCM, 15 KV, Non-Shielded, Single Copper Conductor Cable, Installed In Duct	21,617.47
26 05 13 16-0151	<b>Shielded, Armored Copper, 15 KV, 3 Conductor Cable</b> (26 05 13 16-0085)		
	Note: Laid in cable tray or hung in vertical cable shaft.		
26 05 13 16-0152	<b>Galvanized Steel Interlocked Armor Cable</b> (26 05 13 16-0151)		
26 05 13 16-0153	LF	3 Conductors, #2 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	62.50
26 05 13 16-0154	LF	3 Conductors, 1/0 AWG, TC, 15 KV, Galvanized Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	73.67
26 05 13 16-0155	<b>Aluminum Interlocked Armor Cable</b> (26 05 13 16-0151)		
26 05 13 16-0156	LF	3 Conductors, #2 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	62.50
26 05 13 16-0157	LF	3 Conductor, 1/0 AWG, TC, 15 KV, Aluminum Armored Shielded Cable, Laid In Cable Tray Or Hung Vertically	73.67
26 05 13 16-0158	<b>Type URD, 15 KV Primary Concentric UD Cable</b> (26 05 13 16-0085)		
	Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 16-0159	MLF	#4 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	4,482.84
26 05 13 16-0160	MLF	#2 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	5,296.72
26 05 13 16-0161	MLF	#1 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	6,314.28
26 05 13 16-0162	MLF	1/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	8,173.47
26 05 13 16-0163	MLF	2/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	9,305.81
26 05 13 16-0164	MLF	3/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	11,419.36
26 05 13 16-0165	MLF	4/0 AWG, Type URD (XLPE), 15 KV, Shielded, Single Conductor Cable, Installed In Conduit	12,829.85
26 05 13 16-0166	<b>15 KV, URD Copper Cable, Direct Burial</b> (26 05 13 16-0085)		
26 05 13 16-0167	MLF	3 Conductors, #6 AWG, 15 KV, URD Copper Cable, Direct Burial	19,928.84
26 05 13 16-0168	<b>Wire Connections</b> (26 05 13 16-0001)		
26 05 13 16-0169	<b>Medium Voltage Up To 5 KV</b> (26 05 13 16-0169)		
26 05 13 16-0170	<b>Shielded One Conductor Cable Splice</b> (26 05 13 16-0169)		
26 05 13 16-0171	EA	#6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	469.56
26 05 13 16-0172	EA	#2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	626.61
26 05 13 16-0173	EA	1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	626.61
26 05 13 16-0174	EA	2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	672.39
26 05 13 16-0175	EA	3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	672.39
26 05 13 16-0176	EA	4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	672.39
26 05 13 16-0177	EA	250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	733.44
26 05 13 16-0178	EA	350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	733.44
26 05 13 16-0179	EA	500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV	733.44
26 05 13 16-0180	<b>Cable Termination Without Stress Cone</b> (26 05 13 16-0169)		
26 05 13 16-0181	EA	#6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV	699.58
26 05 13 16-0182	EA	250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV	807.45





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 13 16-0183</b>				<b>Cable Termination With Stress Cone</b> <small>(26 05 13 16-0169)</small>		
	EA			#6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV .....	2,082.12	369.17
	EA			250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV .....	2,862.35	507.62
<b>26 05 13 16-0186</b>				<b>Connect To Pothead, Pothead Included</b> <small>(26 05 13 16-0169)</small>		
	EA			#6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV .....	2,176.97	369.17
	EA			250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV .....	2,786.32	423.01
<b>26 05 13 16-0189</b>				<b>Two Conductor Pothead</b> <small>(26 05 13 16-0169)</small>		
				Note: Includes 5 KV pothead.		
	EA			#6 To 4/0 AWG, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....	1,596.88	507.62
	EA			250 To 350 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....	2,138.95	646.05
	EA			400 To 700 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....	3,262.48	732.50
	EA			750 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....	5,304.14	854.63
	EA			1,000 MCM, Two Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....	9,753.72	1,281.80
<b>26 05 13 16-0195</b>				<b>Three Conductor Pothead</b> <small>(26 05 13 16-0169)</small>		
				Note: Includes 5 KV pothead.		
	EA			#6 To 4/0 AWG, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....	6,471.13	738.35
	EA			250 To 500 MCM, Three Conductors, 5 KV Pothead (Included) Medium Voltage To 5 KV .....	7,086.10	861.40
<b>26 05 13 16-0198</b>				<b>Copper Cable Splice, Crimp Compression Connection</b> <small>(26 05 13 16-0169)</small>		
				Note: For bare wire.		
	EA			#6 AWG Crimp Compression Connection For Bare Copper Wire .....	98.55	
	EA			#4 AWG Crimp Compression Connection For Bare Copper Wire .....	108.97	
	EA			#3 AWG Crimp Compression Connection For Bare Copper Wire .....	127.05	
	EA			#2 AWG Crimp Compression Connection For Bare Copper Wire .....	143.79	
	EA			#1 AWG Crimp Compression Connection For Bare Copper Wire .....	162.40	
	EA			1/0 AWG Crimp Compression Connection For Bare Copper Wire .....	180.28	
	EA			2/0 AWG Crimp Compression Connection For Bare Copper Wire .....	197.85	
	EA			3/0 AWG Crimp Compression Connection For Bare Copper Wire .....	216.68	
	EA			4/0 AWG Crimp Compression Connection For Bare Copper Wire .....	234.75	
	EA			250 MCM Crimp Compression Connection For Bare Copper Wire .....	253.39	
	EA			300 MCM Crimp Compression Connection For Bare Copper Wire .....	272.78	
	EA			350 MCM Crimp Compression Connection For Bare Copper Wire .....	290.39	
	EA			400 MCM Crimp Compression Connection For Bare Copper Wire .....	328.68	
	EA			500 MCM Crimp Compression Connection For Bare Copper Wire .....	368.73	
<b>26 05 13 16-0213</b>				<b>Aluminum Cable Splice, Crimp Compression Connection</b> <small>(26 05 13 16-0169)</small>		
				Note: For bare wire.		
	EA			#6 AWG Crimp Compression Connection For Bare Aluminum Wire .....	101.93	
	EA			#4 AWG Crimp Compression Connection For Bare Aluminum Wire .....	110.84	
	EA			#2 AWG Crimp Compression Connection For Bare Aluminum Wire .....	149.96	
	EA			#1 AWG Crimp Compression Connection For Bare Aluminum Wire .....	178.10	
	EA			1/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....	195.09	
	EA			2/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....	212.00	
	EA			3/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....	233.11	
	EA			4/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....	252.13	
	EA			250 MCM Crimp Compression Connection For Bare Aluminum Wire .....	270.35	
	EA			300 MCM Crimp Compression Connection For Bare Aluminum Wire .....	289.36	
	EA			350 MCM Crimp Compression Connection For Bare Aluminum Wire .....	307.80	
	EA			400 MCM Crimp Compression Connection For Bare Aluminum Wire .....	353.62	
	EA			500 MCM Crimp Compression Connection For Bare Aluminum Wire .....	399.85	
<b>26 05 13 16-0227</b>				<b>15 KV</b> <small>(26 05 13 16-0168)</small>		
<b>26 05 13 16-0228</b>				<b>Single Conductor Pothead On Racks</b> <small>(26 05 13 16-0227)</small>		
				Note: Includes pothead.		
	EA			#2 To 4/0 AWG, Single Conductor, 15 KV Pothead (Included), On Racks .....	1,940.79	646.05
	EA			250 To 500 MCM, Single Conductor, 15 KV Pothead (Included), On Racks .....	2,475.74	799.88
<b>26 05 13 16-0231</b>				<b>Two Conductor Pothead On Rack</b> <small>(26 05 13 16-0227)</small>		
				Note: Includes pothead.		
	EA			#2 To 4/0 AWG, Two Conductors, 15 KV Pothead (Included), On Racks .....	2,860.79	984.46
	EA			250 To 500 MCM, Two Conductors, 15 KV Pothead (Included), On Racks .....	3,439.57	1,169.04
<b>26 05 13 16-0234</b>				<b>Three Conductor Pothead On Rack</b> <small>(26 05 13 16-0227)</small>		
				Note: Includes pothead.		
	EA			#2 To 4/0 AWG, Three Conductors, 15 KV Pothead (Included), On Racks .....	3,653.41	1,276.72
	EA			250 To 500 MCM, Three Conductors, 15 KV Pothead (Included), On Racks .....	4,551.49	1,599.74

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 13 Medium-Voltage Cables**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 13 16-0237 Stress Relief Cone On Rack</b> <small>(26 05 13 16-0227)</small>		
26 05 13 16-0238 EA #2 To 4/0 AWG Stress Relief Cone, On Rack .....	1,826.19	646.05
26 05 13 16-0239 EA 250 To 500 MCM Stress Relief Cone, On Rack .....	2,346.90	799.88
<b>26 05 13 16-0240 Grounded, Shielded Cable Splice</b> <small>(26 05 13 16-0227)</small>		
26 05 13 16-0241 EA #2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV .....	1,259.84	476.84
26 05 13 16-0242 EA 250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV .....	1,614.33	615.28
26 05 13 16-0243 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way .....	7,714.33	1,692.04
26 05 13 16-0244 EA 3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way .....	9,894.63	1,845.86
<b>26 05 13 16-0245 Cable Termination</b> <small>(26 05 13 16-0227)</small>		
26 05 13 16-0246 EA #2 To 3/0 AWG Cable Termination 15 KV .....	834.18	269.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....	161.51	
26 05 13 16-0247 EA 4/0 To 250 MCM Cable Termination 15 KV .....	1,054.11	346.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....	207.66	
26 05 13 16-0248 EA 350 To 500 MCM Cable Termination 15 KV .....	1,306.62	423.01
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....	253.81	
26 05 13 16-0249 EA #2 To 3/0 AWG Cable Elbow Termination 15 KV .....	530.78	153.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add .....	92.30	
<b>26 05 13 16-0250 Stress Cones, 5-15 KV, 4 Skirted</b> <small>(26 05 13 16-0227)</small>		
26 05 13 16-0251 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted .....	1,060.06	199.97
26 05 13 16-0252 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted .....	1,207.17	221.02
26 05 13 16-0253 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted .....	1,432.94	241.87
26 05 13 16-0254 EA 400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted .....	1,841.91	278.67
<b>26 05 13 16-0255 Stress Cones, 5-15 KV, 6 Skirted</b> <small>(26 05 13 16-0227)</small>		
26 05 13 16-0256 EA #4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted .....	2,120.15	400.62
26 05 13 16-0257 EA 2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted .....	2,414.63	442.02
26 05 13 16-0258 EA 4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted .....	2,847.95	474.76
26 05 13 16-0259 EA 400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted .....	3,683.82	557.32
<b>26 05 13 16-0260 35 KV</b> <small>(26 05 13 16-0168)</small>		
<b>26 05 13 16-0261 35 KV One Conductor Splice</b> <small>(26 05 13 16-0260)</small>		
26 05 13 16-0262 EA #1 Stranded To 4/0 Stranded, 35 KV, Cable Splicing .....	3,147.57	
<b>26 05 13 16-0263 Cable Termination</b> <small>(26 05 13 16-0260)</small>		
26 05 13 16-0264 EA #2 To 3/0 AWG Cable Termination, 35 KV .....	726.37	184.74
26 05 13 16-0265 EA 3/0 AWG To 250 MCM, 35 KV, Cable Termination .....	994.08	278.73
26 05 13 16-0266 EA 350 To 500 MCM Cable Termination 35 KV .....	1,152.06	298.11
26 05 13 16-0267 EA #2 To 3/0 AWG Cable Elbow Termination 35 KV .....	576.92	153.82
<b>26 05 13 16-0268 70 KV</b> <small>(26 05 13 16-0168)</small>		
<b>26 05 13 16-0269 Cable Splice</b> <small>(26 05 13 16-0268)</small>		
26 05 13 16-0270 EA 350 MCM, 70 KV, Cable Splicing .....	16,448.71	
26 05 13 16-0271 EA #2 To 4/0, 70 KV, Cable Splicing .....	3,263.50	
<b>26 05 19 Low-Voltage Electrical Power Conductors and Cables</b> <small>(26 05)</small>		
<b>26 05 19 13 Undercarpet Electrical Power Cables</b> <small>(26 05 19)</small>		
<b>26 05 19 13-0001 Under Carpet Power System</b> <small>(26 05 19 13)</small>		
Note: Includes laying out, floor prep, taping, drill floor, folds, identifying, tagging and testing		
26 05 19 13-0002 LF 3-Conductor, #12 Flat Cable With Attached Bottom Shield .....	6.56	0.70
26 05 19 13-0003 LF Steel, Top Shield .....	14.09	0.70
26 05 19 13-0004 EA 3-Conductor, Splice .....	40.57	11.94
26 05 19 13-0005 EA Splice Top Shield For 3 Conductor .....	12.61	5.62
26 05 19 13-0006 EA 3-Conductor, Tap .....	50.22	14.06
26 05 19 13-0007 EA Insulating Patch, Splice Tap And End .....	74.18	11.94
26 05 19 13-0008 EA 3-Conductor, Transition Block Assembly .....	48.08	7.02
26 05 19 13-0009 EA Single, Direct Connected, Receptacle With Box .....	145.53	22.49
26 05 19 13-0010 EA Dual, Direct Connected, Receptacle With Box .....	241.57	35.14
26 05 19 13-0011 EA Floor Mounted Box With Cover .....	237.87	28.11
26 05 19 13-0012 LF 5-Conductor, #12 Cable With Attached Bottom Shield .....	10.28	0.70
26 05 19 13-0013 LF Steel, Top Shield For 5-Conductor Cable .....	10.20	0.70
26 05 19 13-0014 EA 5-Conductor, Splice .....	41.04	11.94
26 05 19 13-0015 EA 5-Conductor, Transition Block Assembly .....	62.67	7.02
26 05 19 13-0016 EA Box, Wall, Flush With Cover .....	113.21	28.11
26 05 19 13-0017 EA Telephone, Transition Fitting Wall Box .....	76.55	23.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 13-0018 EA RJ-45, Telephone Fitting With Duplex Jack And Cover .....	99.16	26.70
26 05 19 13-0019 EA Miniature Telephone With Duplex RJ-45 .....	42.28	10.54
26 05 19 13-0020 LF 4-Pair, Level 5, Under Carpet Telephone Wire .....	2.49	0.70
26 05 19 13-0021 EA BNC, Coax Plug, Connector .....	36.07	14.06
26 05 19 13-0022 EA TNC, Coax Plug, Connector .....	36.07	14.06
26 05 19 13-0023 CLF Under Carpet Power System; Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm .....	188.17	70.27
 <b>26 05 19 16 Low-Voltage, Single-and Multi-Conductor Cables (26 05 19)</b>		
<b>26 05 19 16-0001 Cable Installation Methods (26 05 19 16)</b>		
<b>26 05 19 16-0002 Pull Cord (26 05 19 16-0001)</b>		
Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.		
26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit .....	0.48	
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits .....	0.25	
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit .....	0.79	
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits .....	0.49	
 <b>26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)</b>		
Note: For installation under roads, driveways or other structures up to 20'.		
26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand .....	3.20	
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand .....	4.08	
26 05 19 16-0010 EA Boring Minimum Set-Up Charge .....	448.56	
Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.		
 <b>26 05 19 16-0011 Wire and Cable (26 05 19 16)</b>		
Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, splicing (#8 and lighter), identifying, tagging and testing. All conductors are copper except as otherwise noted. No special set-up is required. For tasks installed in conduit, tasks exclude conduit. Excludes terminations. See CSI section 26 05 33 13-0058 for various conduit types.		
<b>26 05 19 16-0012 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)</b>		
<b>26 05 19 16-0013 Multi-Conductor Cords (26 05 19 16-0012)</b>		
Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.		
<b>26 05 19 16-0014 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0013)</b>		
Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
<b>26 05 19 16-0015 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)</b>		
<b>26 05 19 16-0016 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>		
26 05 19 16-0017 LF 2 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.40	0.61
26 05 19 16-0018 LF 3 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.44	0.61
26 05 19 16-0019 LF 4 Conductors, #18 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.57	0.61
 <b>26 05 19 16-0020 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>		
26 05 19 16-0021 LF 2 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.62	0.61
26 05 19 16-0022 LF 3 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.70	0.61
26 05 19 16-0023 LF 4 Conductors, #16 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.81	0.61
 <b>26 05 19 16-0024 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>		
26 05 19 16-0025 LF 2 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.77	0.61
26 05 19 16-0026 LF 3 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.89	0.61
26 05 19 16-0027 LF 4 Conductors, #14 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.14	0.61
 <b>26 05 19 16-0028 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>		
26 05 19 16-0029 LF 2 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.98	0.61
26 05 19 16-0030 LF 3 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.13	0.61
26 05 19 16-0031 LF 4 Conductors, #12 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.34	0.61
 <b>26 05 19 16-0032 #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)</b>		
26 05 19 16-0033 LF 2 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.48	0.77
26 05 19 16-0034 LF 3 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.59	0.77
26 05 19 16-0035 LF 4 Conductors, #10 AWG, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.74	0.77
 <b>26 05 19 16-0036 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0014)</b>		
<b>26 05 19 16-0037 #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)</b>		
26 05 19 16-0038 LF 2 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.44	0.61

**26 Electrical****26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0039 LF 3 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.53	0.61
26 05 19 16-0040 LF 4 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.65	0.61
26 05 19 16-0041 LF 5 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.68	0.83
26 05 19 16-0042 LF 6 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.90	0.85
26 05 19 16-0043 LF 7 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.06	0.88
26 05 19 16-0044 LF 8 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.33	0.90
26 05 19 16-0045 LF 10 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.77	0.94
26 05 19 16-0046 LF 12 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.24	0.97
26 05 19 16-0047 LF 14 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.44	0.99
26 05 19 16-0048 LF 16 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.55	1.01
26 05 19 16-0049 LF 18 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.70	1.04
26 05 19 16-0050 LF 20 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.29	1.06
26 05 19 16-0051 LF 24 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.78	1.08
26 05 19 16-0052 LF 30 Conductors, #18 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.13	1.15
<b>26 05 19 16-0053 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)</b>		
26 05 19 16-0054 LF 2 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.70	0.61
26 05 19 16-0055 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.78	0.61
26 05 19 16-0056 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.93	0.61
26 05 19 16-0057 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	2.78	0.83
26 05 19 16-0058 LF 6 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.03	0.85
26 05 19 16-0059 LF 7 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.28	0.88
26 05 19 16-0060 LF 8 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.60	0.90
26 05 19 16-0061 LF 9 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.74	0.92
26 05 19 16-0062 LF 10 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.10	0.94
26 05 19 16-0063 LF 12 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.71	0.97
26 05 19 16-0064 LF 14 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.03	0.99
26 05 19 16-0065 LF 16 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.63	1.01
26 05 19 16-0066 LF 18 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.43	1.04
26 05 19 16-0067 LF 20 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.16	1.06
26 05 19 16-0068 LF 24 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.53	1.08
26 05 19 16-0069 LF 26 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.34	1.11
26 05 19 16-0070 LF 30 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.81	1.15
<b>26 05 19 16-0071 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)</b>		
26 05 19 16-0072 LF 2 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	1.91	0.61
26 05 19 16-0073 LF 3 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.00	0.61
26 05 19 16-0074 LF 4 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.22	0.61
26 05 19 16-0075 LF 5 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.47	0.83
26 05 19 16-0076 LF 6 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.08	0.85
26 05 19 16-0077 LF 7 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.30	0.88
26 05 19 16-0078 LF 8 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.80	0.90
26 05 19 16-0079 LF 9 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.13	0.92
26 05 19 16-0080 LF 10 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.68	0.94
26 05 19 16-0081 LF 12 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.21	0.97
26 05 19 16-0082 LF 14 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.81	0.99
26 05 19 16-0083 LF 16 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.09	1.01
26 05 19 16-0084 LF 20 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.05	1.06
26 05 19 16-0085 LF 24 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	10.56	1.08
26 05 19 16-0086 LF 30 Conductors, #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.43	1.15
<b>26 05 19 16-0087 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (26 05 19 16-0036)</b>		
26 05 19 16-0088 LF 2 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.14	0.61
26 05 19 16-0089 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.31	0.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0090 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.47	0.61
26 05 19 16-0091 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.91	0.83
26 05 19 16-0092 LF 6 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	4.48	0.85
26 05 19 16-0093 LF 7 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.05	0.88
26 05 19 16-0094 LF 8 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.68	0.90
26 05 19 16-0095 LF 9 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.13	0.92
26 05 19 16-0096 LF 10 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.88	0.94
26 05 19 16-0097 LF 12 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.77	0.97
26 05 19 16-0098 LF 14 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.60	0.99
26 05 19 16-0099 LF 16 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.44	1.01
26 05 19 16-0100 LF 18 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.84	1.04
26 05 19 16-0101 LF 20 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.27	1.06
26 05 19 16-0102 LF 24 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.73	1.08
26 05 19 16-0103 LF 26 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.21	1.11
26 05 19 16-0104 LF 28 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	14.69	1.13
26 05 19 16-0105 LF 30 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.21	1.15
<b>26 05 19 16-0106 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>		
26 05 19 16-0107 LF 2 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.44	0.77
26 05 19 16-0108 LF 3 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.58	0.77
26 05 19 16-0109 LF 4 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.73	0.77
26 05 19 16-0110 LF 5 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.44	0.83
26 05 19 16-0111 LF 6 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.37	0.85
26 05 19 16-0112 LF 7 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.25	0.88
26 05 19 16-0113 LF 10 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	7.94	0.94
26 05 19 16-0114 LF 12 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.04	0.97
26 05 19 16-0115 LF 16 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	11.41	1.01
26 05 19 16-0116 LF 20 Conductors, #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.38	1.06
<b>26 05 19 16-0117 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>		
26 05 19 16-0118 LF 3 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.60	0.92
26 05 19 16-0119 LF 4 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.97	1.07
26 05 19 16-0120 LF 5 Conductors, #8 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.57	1.07
<b>26 05 19 16-0121 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>		
26 05 19 16-0122 LF 3 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.38	1.07
26 05 19 16-0123 LF 4 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.68	1.23
26 05 19 16-0124 LF 5 Conductors, #6 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.22	1.54
<b>26 05 19 16-0125 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>		
26 05 19 16-0126 LF 3 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.05	1.54
26 05 19 16-0127 LF 4 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.98	1.69
26 05 19 16-0128 LF 5 Conductors, #4 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.16	1.84
<b>26 05 19 16-0129 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>		
26 05 19 16-0130 LF 3 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	15.61	3.08
26 05 19 16-0131 LF 4 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.82	3.85
26 05 19 16-0132 LF 5 Conductors, #2 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	24.31	5.08
<b>26 05 19 16-0133 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0014)</small>		
<b>26 05 19 16-0134 #18, 300 Volt, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0133)</small>		
26 05 19 16-0135 LF 2 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.81	0.61
26 05 19 16-0136 LF 3 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.95	0.61
26 05 19 16-0137 LF 4 Conductors, #18 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.22	0.61

**26 Electrical****26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 19 16-0138 #16, 300 Volt, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0133)</small>		
26 05 19 16-0139 LF 2 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	1.90	0.61
26 05 19 16-0140 LF 3 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.12	0.61
26 05 19 16-0141 LF 4 Conductors, #16 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.23	0.61
<b>26 05 19 16-0142 #14, 300 Volt, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0133)</small>		
26 05 19 16-0143 LF 2 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	2.46	0.61
26 05 19 16-0144 LF 3 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	3.36	0.61
26 05 19 16-0145 LF 4 Conductors, #14 AWG, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III).....	4.22	0.77
<b>26 05 19 16-0146 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0014)</small>		
<b>26 05 19 16-0147 #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>		
26 05 19 16-0148 LF 2 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.39	0.61
26 05 19 16-0149 LF 3 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.77	0.61
26 05 19 16-0150 LF 4 Conductors, #18 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.16	0.61
<b>26 05 19 16-0151 #16 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>		
26 05 19 16-0152 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.52	0.61
26 05 19 16-0153 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.91	0.61
26 05 19 16-0154 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.52	0.61
26 05 19 16-0155 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.82	0.77
<b>26 05 19 16-0156 #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>		
26 05 19 16-0157 LF 3 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.00	0.61
26 05 19 16-0158 LF 4 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.50	0.61
26 05 19 16-0159 LF 5 Conductors, #14 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.90	0.77
<b>26 05 19 16-0160 #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>		
26 05 19 16-0161 LF 3 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.47	0.61
26 05 19 16-0162 LF 4 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.91	0.61
26 05 19 16-0163 LF 5 Conductors, #12 AWG, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.36	0.77
<b>26 05 19 16-0164 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0146)</small>		
26 05 19 16-0165 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.96	0.77
26 05 19 16-0166 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.35	0.77
26 05 19 16-0167 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.76	0.77
<b>26 05 19 16-0168 Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0013)</small> Note: Includes thermoplastic elastomeric (TPE) insulation.		
<b>26 05 19 16-0169 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0168)</small>		
<b>26 05 19 16-0170 #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0169)</small>		
26 05 19 16-0171 LF 3 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.92	0.61
26 05 19 16-0172 LF 4 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.07	0.61
26 05 19 16-0173 LF 5 Conductors, #16 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.95	0.77
<b>26 05 19 16-0174 #14 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0169)</small>		
26 05 19 16-0175 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.38	0.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0176 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.67	0.61
26 05 19 16-0177 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.68	0.77
<b>26 05 19 16-0178 #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0169)</small>		
26 05 19 16-0179 LF 3 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.85	0.61
26 05 19 16-0180 LF 4 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.22	0.61
26 05 19 16-0181 LF 5 Conductors, #12 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.99	0.77
<b>26 05 19 16-0182 #10 AWG, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> <small>(26 05 19 16-0169)</small>		
26 05 19 16-0183 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.54	0.77
26 05 19 16-0184 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.99	0.77
26 05 19 16-0185 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.25	0.77
<b>26 05 19 16-0186 Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0013)</small> Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
<b>26 05 19 16-0187 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0186)</small>		
<b>26 05 19 16-0188 #8 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0187)</small>		
26 05 19 16-0189 LF 3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.98	0.92
26 05 19 16-0190 LF 4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.33	1.07
26 05 19 16-0191 LF 5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.22	1.07
<b>26 05 19 16-0192 #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0187)</small>		
26 05 19 16-0193 LF 3 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.37	1.07
26 05 19 16-0194 LF 4 Conductors, #6 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.38	1.23
26 05 19 16-0195 LF 5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.91	1.54
<b>26 05 19 16-0196 #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> <small>(26 05 19 16-0187)</small>		
26 05 19 16-0197 LF 3 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.03	1.07
26 05 19 16-0198 LF 4 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.30	1.23
26 05 19 16-0199 LF 5 Conductors, #4 AWG, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	10.59	1.54
<b>26 05 19 16-0200 Cord Grips, Cable Reels, Extension Cords, And Accessories</b> <small>(26 05 19 16-0012)</small>		
<b>26 05 19 16-0201 Cord Grips</b> <small>(26 05 19 16-0200)</small>		
26 05 19 16-0202 EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel.....	96.86	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.97	
26 05 19 16-0203 EA Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel.....	97.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.97	
<b>26 05 19 16-0204 Cable Reels</b> <small>(26 05 19 16-0200)</small> Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0205 EA 30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	681.18	76.91
26 05 19 16-0206 EA 50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	1,814.27	76.91
26 05 19 16-0207 EA 50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,366.37	76.91
<b>26 05 19 16-0208 Extension Cords For Cable Reel</b> <small>(26 05 19 16-0200)</small>		
26 05 19 16-0209 EA 100 LF, 120 Volt, 12 Gauge, 3 Wire, Extension Cord.....	214.20	
26 05 19 16-0210 EA 100 LF, 240 Volt, 10 Gauge, 3 Wire, Extension Cord.....	301.06	
<b>26 05 19 16-0211 Plugs And Connector Bodies</b> <small>(26 05 19 16-0200)</small> Note: Up to 277 volt		
<b>26 05 19 16-0212 NEMA Twist-Lock Plugs</b> <small>(26 05 19 16-0211)</small>		
26 05 19 16-0213 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C).....	96.17	
26 05 19 16-0214 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	97.66	
26 05 19 16-0215 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C).....	91.42	
26 05 19 16-0216 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331).....	95.99	
26 05 19 16-0217 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411).....	117.41	
26 05 19 16-0218 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441).....	123.22	
26 05 19 16-0219 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK).....	128.90	
26 05 19 16-0220 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK).....	118.28	
26 05 19 16-0221 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK).....	132.23	
26 05 19 16-0222 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761).....	134.95	
26 05 19 16-0223 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK).....	138.41	
<b>26 05 19 16-0224 NEMA Twist-Lock Connector Bodies</b> <small>(26 05 19 16-0211)</small>		
26 05 19 16-0225 EA 15 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C).....	100.37	

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 19 Low-Voltage Electrical Power Conductors and Cables**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0226 EA 15 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	105.62	
26 05 19 16-0227 EA 20 Amperes, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C).....	94.57	
26 05 19 16-0228 EA 20 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	118.28	
26 05 19 16-0229 EA 20 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK).....	133.59	
26 05 19 16-0230 EA 20 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	141.00	
26 05 19 16-0231 EA 20 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	165.95	
26 05 19 16-0232 EA 30 Amperes, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	159.65	
26 05 19 16-0233 EA 30 Amperes, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK).....	190.89	
26 05 19 16-0234 EA 30 Amperes, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	199.17	
26 05 19 16-0235 EA 30 Amperes, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	190.15	
<b>26 05 19 16-0236 Watertight Pin And Sleeve Plug (26 05 19 16-0211)</b>		
26 05 19 16-0237 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	285.26	46.15
26 05 19 16-0238 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	288.06	46.15
26 05 19 16-0239 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	309.79	46.15
26 05 19 16-0240 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	312.48	50.76
26 05 19 16-0241 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	308.26	50.76
26 05 19 16-0242 EA 20 Amperes, Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	309.52	50.76
26 05 19 16-0243 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	428.62	56.76
26 05 19 16-0244 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	418.12	56.76
26 05 19 16-0245 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	463.21	56.76
26 05 19 16-0246 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	458.23	62.30
26 05 19 16-0247 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	440.00	62.30
26 05 19 16-0248 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	452.54	62.30
26 05 19 16-0249 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	580.80	73.84
26 05 19 16-0250 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	590.80	73.84
26 05 19 16-0251 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	567.09	73.84
26 05 19 16-0252 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	644.89	82.14
26 05 19 16-0253 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	629.33	82.14
26 05 19 16-0254 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	636.06	82.14
26 05 19 16-0255 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	792.72	92.29
26 05 19 16-0256 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	831.34	92.29
26 05 19 16-0257 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	816.04	101.53
26 05 19 16-0258 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	802.85	101.53
26 05 19 16-0259 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	809.98	101.53
<b>26 05 19 16-0260 Watertight Pin And Sleeve Connector (26 05 19 16-0211)</b>		
26 05 19 16-0261 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W).....	301.36	46.15
26 05 19 16-0262 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W).....	303.29	46.15
26 05 19 16-0263 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W).....	353.34	46.15
26 05 19 16-0264 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W).....	353.03	50.76
26 05 19 16-0265 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W).....	347.95	50.76
26 05 19 16-0266 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W).....	352.55	50.76
26 05 19 16-0267 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W).....	438.23	56.76
26 05 19 16-0268 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W).....	438.13	56.76
26 05 19 16-0269 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W).....	455.39	56.76
26 05 19 16-0270 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	453.55	62.30
26 05 19 16-0271 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W).....	457.10	62.30
26 05 19 16-0272 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W).....	453.35	62.30
26 05 19 16-0273 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W).....	679.44	73.84
26 05 19 16-0274 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W).....	658.30	73.84
26 05 19 16-0275 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W).....	645.71	73.84
26 05 19 16-0276 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	703.60	82.14
26 05 19 16-0277 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W).....	721.98	82.14
26 05 19 16-0278 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W).....	723.33	82.14
26 05 19 16-0279 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W).....	900.92	92.29
26 05 19 16-0280 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W).....	925.16	92.29
26 05 19 16-0281 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W).....	1,000.58	101.53
26 05 19 16-0282 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W).....	967.28	101.53
26 05 19 16-0283 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W).....	978.63	101.53
<b>26 05 19 16-0284 Accessories (26 05 19 16-0200)</b>		
26 05 19 16-0285 EA 1/2" Straight Steel Cord Connector.....	68.76	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 19 16-0286 EA 1/2" Straight Nylon Cord Connector.....	42.07	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 19 16-0287 EA 1/2" 90 Degree Steel Cord Connector.....	79.30	19.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 05 19 16-0288 EA 1/2" 90 Degree Nylon Cord Connector.....	51.18	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 19 16-0289 EA 1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	78.36	19.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 05 19 16-0290 EA 1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh.....	131.92	23.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.85	
26 05 19 16-0291 EA 1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	50.45	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 19 16-0292 EA 1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	82.76	19.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0293 EA 3/4" Straight Steel Cord Connector.....	71.44	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 19 16-0294 EA 3/4" Straight Nylon Cord Connector.....	43.42	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 19 16-0295 EA 3/4" 90 Degree Steel Cord Connector .....	87.66	19.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 05 19 16-0296 EA 3/4" 90 Degree Nylon Cord Connector .....	55.36	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 19 16-0297 EA 3/4" Straight Steel Cord Connector With Strain Relief Mesh .....	88.85	23.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 19 16-0298 EA 3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh .....	105.50	26.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.15	
26 05 19 16-0299 EA 3/4" Straight Nylon Cord Connector With Strain Relief Mesh .....	60.96	19.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 05 19 16-0300 EA 3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh .....	73.58	23.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.85	
26 05 19 16-0301 EA 1" Straight Steel Cord Connector.....	88.59	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 19 16-0302 EA 1" Straight Nylon Cord Connector.....	52.00	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 19 16-0303 EA 1" 90 Degree Steel Cord Connector .....	98.99	19.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 05 19 16-0304 EA 1" 90 Degree Nylon Cord Connector .....	61.03	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 19 16-0305 EA 1" Straight Steel Cord Connector With Strain Relief Mesh .....	106.87	23.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.84	
26 05 19 16-0306 EA 1" 90 Degree Steel Cord Connector With Strain Relief Mesh .....	117.40	26.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.15	
26 05 19 16-0307 EA 1" Straight Nylon Cord Connector With Strain Relief Mesh .....	70.11	19.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 05 19 16-0308 EA 1" 90 Degree Nylon Cord Connector With Strain Relief Mesh .....	81.31	23.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.85	
<b>26 05 19 16-0309 600 Volt Wire (26 05 19 16-0011)</b>		
<b>26 05 19 16-0310 Single Solid Conductor, Copper (26 05 19 16-0309)</b>		
26 05 19 16-0311 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	825.66	341.11
26 05 19 16-0312 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,027.89	401.27
26 05 19 16-0313 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,262.57	490.66
26 05 19 16-0314 MLF #14 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,051.30	341.11
26 05 19 16-0315 MLF #12 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,265.34	401.27
26 05 19 16-0316 MLF #10 AWG, Type XHHW, 600 Volt, Copper, Single Solid Cable, Installed In Conduit.....	1,509.60	490.66
<b>26 05 19 16-0317 Power Cable, Stranded Conductor, Copper (26 05 19 16-0309)</b>		
<b>26 05 19 16-0318 Power Cable, Stranded, Single Conductor, XHHW-2 (26 05 19 16-0317)</b>		
26 05 19 16-0319 MLF #16 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	860.94	281.10
26 05 19 16-0320 MLF #14 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,018.21	337.33
26 05 19 16-0321 MLF #12 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,246.08	393.55
26 05 19 16-0322 MLF #10 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	1,521.60	449.76
26 05 19 16-0323 MLF #8 AWG, XLP (XHHW-2), 600 Volt, Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,015.57	562.21
26 05 19 16-0324 MLF #6 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	2,695.26	674.64
26 05 19 16-0325 MLF #4 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	3,663.66	843.31
26 05 19 16-0326 MLF #3 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	4,321.03	955.75
26 05 19 16-0327 MLF #2 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	5,095.73	1,068.19
26 05 19 16-0328 MLF #1 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	6,270.24	1,180.64
26 05 19 16-0329 MLF 1/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	7,501.02	1,349.29
26 05 19 16-0330 MLF 2/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	8,953.51	1,517.95
26 05 19 16-0331 MLF 3/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	10,674.58	1,686.62
26 05 19 16-0332 MLF 4/0 AWG, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	12,737.80	1,855.28
26 05 19 16-0333 MLF 250 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	13,517.87	2,023.94
26 05 19 16-0334 MLF 300 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	15,961.27	2,192.60
26 05 19 16-0335 MLF 350 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	17,034.29	2,361.26
26 05 19 16-0336 MLF 400 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	19,017.74	2,529.92
26 05 19 16-0337 MLF 500 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	21,946.42	2,698.59
26 05 19 16-0338 MLF 600 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	25,214.55	2,923.47
26 05 19 16-0339 MLF 750 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	37,943.05	3,260.79
26 05 19 16-0340 MLF 1,000 MCM, XLP (XHHW-2), 600 Volt Copper, Single Stranded, Power Cable, Installed In Conduit.....	53,266.24	3,823.00
<b>26 05 19 16-0341 Power Cable, Stranded, Multi Conductor, XHHW-2 (26 05 19 16-0317)</b>		
26 05 19 16-0342 MLF 2 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....	2,036.41	674.50
26 05 19 16-0343 MLF 3 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....	2,492.41	787.23
26 05 19 16-0344 MLF 4 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....	3,089.11	955.75
26 05 19 16-0345 MLF 6 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....	3,648.46	1,039.65
26 05 19 16-0346 MLF 7 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....	3,964.73	1,096.16
26 05 19 16-0347 MLF 9 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....	4,595.13	1,208.46
26 05 19 16-0348 MLF 10 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....	3,323.79	1,259.62
26 05 19 16-0349 MLF 12 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....	5,542.32	1,377.40
26 05 19 16-0350 MLF 14 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit .....	6,103.50	1,462.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 19 16-0351	MLF 24 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,836.09	1,855.42
26 05 19 16-0352	MLF 37 Conductors, #14 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	13,358.29	2,754.81
26 05 19 16-0353	MLF 2 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	2,492.48	787.23
26 05 19 16-0354	MLF 3 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,176.18	955.75
26 05 19 16-0355	MLF 4 Conductors, #12 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,859.88	1,124.41
26 05 19 16-0356	MLF 2 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	3,323.22	1,011.55
26 05 19 16-0357	MLF 3 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,281.06	1,235.73
26 05 19 16-0358	MLF 4 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,524.89	1,574.46
26 05 19 16-0359	MLF 6 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,444.73	2,024.64
26 05 19 16-0360	MLF 9 Conductors, #10 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	10,040.37	2,586.28
26 05 19 16-0361	MLF 2 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	4,101.41	1,152.52
26 05 19 16-0362	MLF 3 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,203.39	1,349.29
26 05 19 16-0363	MLF 4 Conductors, #8 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	6,727.03	1,714.73
26 05 19 16-0364	MLF 2 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	5,250.11	1,293.07
26 05 19 16-0365	MLF 3 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,031.65	1,602.28
26 05 19 16-0366	MLF 4 Conductors, #6 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	8,974.96	1,976.15
26 05 19 16-0367	MLF 2 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	7,032.78	1,568.83
26 05 19 16-0368	MLF 3 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,152.30	1,794.42
26 05 19 16-0369	MLF 4 Conductors, #4 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	11,819.65	2,239.27
26 05 19 16-0370	MLF 2 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	9,627.80	1,910.94
26 05 19 16-0371	MLF 3 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	12,618.07	2,136.94
26 05 19 16-0372	MLF 4 Conductors, #2 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,728.54	2,811.02
26 05 19 16-0373	MLF 3 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	16,701.32	2,698.17
26 05 19 16-0374	MLF 4 Conductors, #1 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	21,704.15	3,371.83
26 05 19 16-0375	MLF 3 Conductors, 1/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	19,693.30	2,924.03
26 05 19 16-0376	MLF 3 Conductors, 2/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	23,905.37	3,371.83
26 05 19 16-0377	MLF 3 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	29,208.47	3,933.75
26 05 19 16-0378	MLF 4 Conductors, 3/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	38,476.32	5,057.74
26 05 19 16-0379	MLF 3 Conductors, 4/0 AWG, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	35,552.58	4,501.44
26 05 19 16-0380	MLF 3 Conductors, 250 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	38,018.21	5,057.74
26 05 19 16-0381	MLF 3 Conductors, 350 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	47,448.47	5,622.06
26 05 19 16-0382	MLF 3 Conductors, 500 MCM, 600 Volt, XLP (XHHW-2), Copper, Stranded, Power Cable, Installed In Conduit.....	61,047.19	6,178.92

### 26 05 19 16-0383 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper

(26 05 19 16-0383)

Note: Direct bury.

26 05 19 16-0384	MLF #14 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,229.31	
26 05 19 16-0385	MLF #12 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,446.56	
26 05 19 16-0386	MLF #10 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,810.67	
26 05 19 16-0387	MLF #8 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,380.49	
26 05 19 16-0388	MLF #6 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,324.81	
26 05 19 16-0389	MLF #4 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,376.75	
26 05 19 16-0390	MLF #2 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,316.13	
26 05 19 16-0391	MLF #1 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,845.43	
26 05 19 16-0392	MLF 1/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,615.43	
26 05 19 16-0393	MLF 2/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,641.45	
26 05 19 16-0394	MLF 3/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,021.81	
26 05 19 16-0395	MLF 4/0 AWG, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,835.70	
26 05 19 16-0396	MLF 250 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,149.95	
26 05 19 16-0397	MLF 300 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,513.00	
26 05 19 16-0398	MLF 350 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	22,926.99	
26 05 19 16-0399	MLF 400 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	25,748.19	
26 05 19 16-0400	MLF 500 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	30,471.28	
26 05 19 16-0401	MLF 600 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	35,970.95	
26 05 19 16-0402	MLF 750 MCM, Type USE, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	57,048.52	
26 05 19 16-0403	MLF #14 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,011.12	
26 05 19 16-0404	MLF #12 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,208.47	
26 05 19 16-0405	MLF #10 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,439.52	
26 05 19 16-0406	MLF #8 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,769.37	
26 05 19 16-0407	MLF #6 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,258.96	
26 05 19 16-0408	MLF #4 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,985.30	
26 05 19 16-0409	MLF #2 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,026.64	
26 05 19 16-0410	MLF #1 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,735.44	
26 05 19 16-0411	MLF 1/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,364.78	
26 05 19 16-0412	MLF 2/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,045.46	
26 05 19 16-0413	MLF 3/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,998.47	
26 05 19 16-0414	MLF 4/0 AWG, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,138.45	
26 05 19 16-0415	MLF 250 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,203.50	
26 05 19 16-0416	MLF 300 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,323.69	
26 05 19 16-0417	MLF 350 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,534.57	
26 05 19 16-0418	MLF 400 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	12,784.88	
26 05 19 16-0419	MLF 500 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,804.75	
26 05 19 16-0420	MLF 750 MCM, XLP (XHHW), 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,325.49	
26 05 19 16-0421	MLF #14 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	849.99	
26 05 19 16-0422	MLF #12 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,053.96	
26 05 19 16-0423	MLF #10 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,300.29	
26 05 19 16-0424	MLF #8 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	1,815.78	
26 05 19 16-0425	MLF #6 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	2,456.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0426 MLF #4 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	3,230.73	
26 05 19 16-0427 MLF #2 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	4,598.19	
26 05 19 16-0428 MLF #1 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	5,463.83	
26 05 19 16-0429 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,355.25	
26 05 19 16-0430 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	7,202.48	
26 05 19 16-0431 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	8,518.76	
26 05 19 16-0432 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,129.45	
26 05 19 16-0433 MLF 250 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,869.35	
26 05 19 16-0434 MLF 300 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,680.84	
26 05 19 16-0435 MLF 350 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	15,625.54	
26 05 19 16-0436 MLF 400 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	17,503.04	
26 05 19 16-0437 MLF 500 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	20,733.18	
26 05 19 16-0438 MLF 600 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,882.88	
26 05 19 16-0439 MLF 750 MCM, Type THHN-THWN, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	39,069.15	
26 05 19 16-0440 MLF #2 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	6,546.21	
26 05 19 16-0441 MLF 1/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	9,329.52	
26 05 19 16-0442 MLF 2/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	10,365.78	
26 05 19 16-0443 MLF 3/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	11,759.86	
26 05 19 16-0444 MLF 4/0 AWG, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	13,062.58	
26 05 19 16-0445 MLF 250 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	14,086.32	
26 05 19 16-0446 MLF 350 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	19,995.90	
26 05 19 16-0447 MLF 400 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	21,724.37	
26 05 19 16-0448 MLF 500 MCM, Type EPR, 600 Volt, Underground Feeder And Branch Circuits, Single Stranded Copper Cable.....	24,706.78	
<b>26 05 19 16-0449 600 Volt, Armored Cable, Copper Conductors</b> (26 05 19 16-0309)		
<b>26 05 19 16-0450 ACTHH, Solid</b> (26 05 19 16-0449)		
26 05 19 16-0451 MLF 1 Conductor, #8 AWG, Type ACT, Solid, Armored Cable.....	3,304.44	922.93
26 05 19 16-0452 MLF 1 Conductor, #6 AWG, Type ACT, Solid, Armored Cable.....	3,811.51	1,045.98
26 05 19 16-0453 MLF 1 Conductor, #4 AWG, Type ACT, Solid, Armored Cable.....	4,363.24	1,107.51
26 05 19 16-0454 MLF 2 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	4,761.16	1,538.21
26 05 19 16-0455 MLF 2 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	5,099.66	1,722.49
26 05 19 16-0456 MLF 2 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	6,462.10	1,908.46
26 05 19 16-0457 MLF 2 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	8,454.53	2,092.74
26 05 19 16-0458 MLF 3 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	5,760.07	1,722.49
26 05 19 16-0459 MLF 3 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	6,032.25	1,908.46
26 05 19 16-0460 MLF 3 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	7,719.56	2,154.43
26 05 19 16-0461 MLF 3 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	10,037.24	2,337.78
26 05 19 16-0462 MLF 4 Conductors, #14 AWG, Type ACTHH, Solid, Armored Cable.....	6,871.42	1,908.46
26 05 19 16-0463 MLF 4 Conductors, #12 AWG, Type ACTHH, Solid, Armored Cable.....	7,528.30	2,154.43
26 05 19 16-0464 MLF 4 Conductors, #10 AWG, Type ACTHH, Solid, Armored Cable.....	9,586.50	2,399.77
26 05 19 16-0465 MLF 4 Conductors, #8 AWG, Type ACTHH, Solid, Armored Cable.....	12,446.43	2,585.28
<b>26 05 19 16-0466 ACTHH, Stranded</b> (26 05 19 16-0449)		
26 05 19 16-0467 MLF 2 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	8,763.63	2,216.42
26 05 19 16-0468 MLF 2 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	10,693.50	2,521.60
26 05 19 16-0469 MLF 3 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	10,345.82	2,461.14
26 05 19 16-0470 MLF 3 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	12,987.77	2,766.64
26 05 19 16-0471 MLF 3 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	16,453.15	3,076.43
26 05 19 16-0472 MLF 3 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	18,922.60	3,380.69
26 05 19 16-0473 MLF 3 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	21,691.08	3,688.79
26 05 19 16-0474 MLF 4 Conductors, #8 AWG, Type ACTHH, Stranded, Armored Cable.....	13,364.42	2,952.45
26 05 19 16-0475 MLF 4 Conductors, #6 AWG, Type ACTHH, Stranded, Armored Cable.....	16,193.98	3,258.86
26 05 19 16-0476 MLF 4 Conductors, #4 AWG, Type ACTHH, Stranded, Armored Cable.....	20,859.74	3,568.97
26 05 19 16-0477 MLF 4 Conductors, #3 AWG, Type ACTHH, Stranded, Armored Cable.....	22,862.11	3,874.61
26 05 19 16-0478 MLF 4 Conductors, #2 AWG, Type ACTHH, Stranded, Armored Cable.....	27,143.94	4,179.94
<b>26 05 19 16-0479 HCFC, Solid</b> (26 05 19 16-0449)		
26 05 19 16-0480 MLF 2 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	5,336.29	1,538.21
26 05 19 16-0481 MLF 2 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	5,840.88	1,728.33
26 05 19 16-0482 MLF 2 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	6,530.05	1,899.08
26 05 19 16-0483 MLF 3 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	6,474.68	1,728.33
26 05 19 16-0484 MLF 3 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	6,944.78	1,899.08
26 05 19 16-0485 MLF 3 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	9,096.54	2,166.58
26 05 19 16-0486 MLF 4 Conductors, #14 AWG, Type HCF, Solid, Armored Cable.....	7,964.98	1,899.08
26 05 19 16-0487 MLF 4 Conductors, #12 AWG, Type HCF, Solid, Armored Cable.....	8,698.68	2,166.58
26 05 19 16-0488 MLF 4 Conductors, #10 AWG, Type HCF, Solid, Armored Cable.....	11,915.51	2,403.46

**26 Electrical****26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 19 16-0489</b>			<b>MC, Solid Or Stranded, Galvanized Steel Armor</b> <small>(26 05 19 16-0449)</small>		
26 05 19 16-0490	MLF		2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	4,497.67	1,538.21
26 05 19 16-0491	MLF		2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	5,030.10	1,728.33
26 05 19 16-0492	MLF		2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	5,933.58	1,899.08
26 05 19 16-0493	MLF		2 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	7,335.72	2,029.37
26 05 19 16-0494	MLF		2 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	8,896.39	2,151.35
26 05 19 16-0495	MLF		3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	5,164.25	1,728.33
26 05 19 16-0496	MLF		3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	5,794.46	1,899.08
26 05 19 16-0497	MLF		3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	7,207.43	2,166.58
26 05 19 16-0498	MLF		3 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	9,064.93	2,337.78
26 05 19 16-0499	MLF		3 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	10,467.35	2,521.60
26 05 19 16-0500	MLF		3 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	12,693.38	2,708.18
26 05 19 16-0501	MLF		3 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	17,020.58	2,891.38
26 05 19 16-0502	MLF		4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	5,921.41	1,899.08
26 05 19 16-0503	MLF		4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	6,777.89	2,166.58
26 05 19 16-0504	MLF		4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	9,695.90	2,403.46
26 05 19 16-0505	MLF		4 Conductors, #8 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	12,767.47	2,647.58
26 05 19 16-0506	MLF		4 Conductors, #6 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	15,352.25	2,832.78
26 05 19 16-0507	MLF		4 Conductors, #4 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	19,807.74	3,016.13
26 05 19 16-0508	MLF		4 Conductors, #2 AWG, Type MC, Solid Or Stranded, Galvanized Steel Armored Cable .....	25,153.95	3,197.95
<b>26 05 19 16-0509</b>			<b>MC, Solid Or Stranded, Aluminum Armor</b> <small>(26 05 19 16-0449)</small>		
26 05 19 16-0510	MLF		2 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable .....	4,468.80	1,538.21
26 05 19 16-0511	MLF		2 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable .....	4,955.25	1,728.33
26 05 19 16-0512	MLF		2 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable .....	5,867.38	1,899.08
26 05 19 16-0513	MLF		3 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable .....	5,284.81	1,728.33
26 05 19 16-0514	MLF		3 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable .....	5,727.96	1,899.08
26 05 19 16-0515	MLF		3 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable .....	7,154.84	2,166.58
26 05 19 16-0516	MLF		4 Conductors, #14 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable .....	6,494.59	1,899.08
26 05 19 16-0517	MLF		4 Conductors, #12 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable .....	7,193.32	2,166.58
26 05 19 16-0518	MLF		4 Conductors, #10 AWG, Type MC, Solid Or Stranded, Aluminum Armored Cable .....	9,695.90	2,403.46
<b>26 05 19 16-0519</b>			<b>FPLP Solid TFN Red Armored Cable</b> <small>(26 05 19 16-0449)</small>		
			Note: Color coded red.		
26 05 19 16-0520	MLF		#18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable .....	4,611.47	1,169.04
26 05 19 16-0521	MLF		#18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable .....	5,244.04	1,353.63
26 05 19 16-0522	MLF		#18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable .....	6,461.86	1,538.21
26 05 19 16-0523	MLF		#18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable .....	7,400.21	1,722.81
26 05 19 16-0524	MLF		#16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable .....	5,255.18	1,353.63
26 05 19 16-0525	MLF		#16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable .....	6,194.55	1,538.21
26 05 19 16-0526	MLF		#16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable .....	7,721.17	1,722.81
26 05 19 16-0527	MLF		#16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable .....	8,768.88	1,907.39
<b>26 05 19 16-0528</b>			<b>FPLP Solid THHN Red Armored Cable</b> <small>(26 05 19 16-0449)</small>		
			Note: Color coded red.		
26 05 19 16-0529	MLF		#14/2 With #14 Ground Type THHN FPLP Red Armored Cable .....	5,847.26	1,538.21
26 05 19 16-0530	MLF		#14/4 With #14 Ground Type THHN FPLP Red Armored Cable .....	7,208.84	1,722.81
26 05 19 16-0531	MLF		#14/6 With #14 Ground Type THHN FPLP Red Armored Cable .....	9,484.72	1,907.39
26 05 19 16-0532	MLF		#14/8 With #14 Ground Type THHN FPLP Red Armored Cable .....	10,963.75	2,091.97
26 05 19 16-0533	MLF		#12/2 With #12 Ground Type THHN FPLP Red Armored Cable .....	7,316.17	1,722.81
26 05 19 16-0534	MLF		#12/4 With #12 Ground Type THHN FPLP Red Armored Cable .....	8,896.46	1,907.39
<b>26 05 19 16-0535</b>			<b>FPLP Twisted Shielded Pair Red Armored Cable</b> <small>(26 05 19 16-0449)</small>		
			Note: Color coded red.		
26 05 19 16-0536	MLF		#18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable .....	4,975.97	1,169.04
26 05 19 16-0537	MLF		#18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable .....	7,931.77	1,722.81
26 05 19 16-0538	MLF		#16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable .....	6,096.57	1,353.63
26 05 19 16-0539	MLF		#16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable .....	7,184.78	1,538.21
26 05 19 16-0540	MLF		#16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable .....	9,927.19	1,907.39
26 05 19 16-0541	MLF		#14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable .....	7,145.22	1,599.74
26 05 19 16-0542	MLF		#14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable .....	8,791.24	1,845.86
<b>26 05 19 16-0543</b>			<b>Armored Cable Connectors</b> <small>(26 05 19 16-0449)</small>		
26 05 19 16-0544	EA		3/4" Armored Cable Connector .....	9.19	3.38
			<i>For Work In Restricted Working Space, Add</i> .....	2.53	
			<i>For Elevated Installation &gt;10' To 15', Add</i> .....	0.84	
			<i>For Elevated Installation &gt;15' To 20', Add</i> .....	1.69	
			<i>For Elevated Installation &gt;20' To 25', Add</i> .....	2.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i> .....	2.95	
			<i>For Elevated Installation &gt;30' To 35', Add</i> .....	3.38	
			<i>For Elevated Installation &gt;35' To 40', Add</i> .....	4.22	
			<i>For Elevated Installation &gt;40', Add</i> .....	4.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	2.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0545 EA 1" Armored Cable Connector.....	12.26	4.50
For Work In Restricted Working Space, Add	3.37	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.93	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.62	
For Elevated Installation >40', Add	6.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.37	
26 05 19 16-0546 EA 1-1/4" Armored Cable Connector.....	15.40	5.62
For Work In Restricted Working Space, Add	4.22	
For Elevated Installation >10' To 15', Add	1.41	
For Elevated Installation >15' To 20', Add	2.81	
For Elevated Installation >20' To 25', Add	3.52	
For Elevated Installation >25' To 30', Add	4.92	
For Elevated Installation >30' To 35', Add	5.62	
For Elevated Installation >35' To 40', Add	7.03	
For Elevated Installation >40', Add	7.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.22	
<b>26 05 19 16-0547 600 Volt, Feeder Wire, Single Stranded Copper</b> <small>(26 05 19 16-0309)</small>		
26 05 19 16-0548 MLF #14 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,126.91	225.30
For EPR Insulation, Add	42.54	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	99.26	
26 05 19 16-0549 MLF #12 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,272.96	249.48
For EPR Insulation, Add	43.37	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	101.19	
26 05 19 16-0550 MLF #10 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	1,546.50	311.88
For EPR Insulation, Add	63.31	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	147.73	
26 05 19 16-0551 MLF #8 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,099.43	496.14
For EPR Insulation, Add	104.09	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	242.87	
26 05 19 16-0552 MLF #6 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	2,852.66	595.37
For EPR Insulation, Add	174.91	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	408.11	
26 05 19 16-0553 MLF #4 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	3,872.32	691.24
For EPR Insulation, Add	264.61	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	617.42	
26 05 19 16-0554 MLF #3 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	4,416.72	791.17
For EPR Insulation, Add	304.10	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	709.57	
26 05 19 16-0555 MLF #2 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	5,535.56	891.10
For EPR Insulation, Add	429.76	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,002.78	
26 05 19 16-0556 MLF #1 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	6,822.76	992.43
For EPR Insulation, Add	580.68	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,354.92	
26 05 19 16-0557 MLF 1/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	8,208.09	1,119.63
For EPR Insulation, Add	725.23	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,692.20	
26 05 19 16-0558 MLF 2/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	9,872.40	1,241.63
For EPR Insulation, Add	911.63	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,127.13	
26 05 19 16-0559 MLF 3/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	11,811.14	1,386.12
For EPR Insulation, Add	1,139.19	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,658.11	
26 05 19 16-0560 MLF 4/0 AWG, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	13,311.19	1,541.15
For EPR Insulation, Add	1,300.95	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,035.55	
26 05 19 16-0561 MLF 250 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	14,187.18	1,690.27
For EPR Insulation, Add	1,369.10	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,194.57	
26 05 19 16-0562 MLF 300 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	16,692.93	1,858.09
For EPR Insulation, Add	1,681.71	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,924.00	
26 05 19 16-0563 MLF 350 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	18,600.60	1,969.83
For EPR Insulation, Add	1,904.62	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	4,444.10	
26 05 19 16-0564 MLF 400 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	20,811.95	2,201.59
For EPR Insulation, Add	2,173.07	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,070.50	
26 05 19 16-0565 MLF 500 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	23,734.03	2,448.55
For EPR Insulation, Add	2,548.14	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	5,945.65	
26 05 19 16-0566 MLF 600 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	27,730.96	2,547.49
For EPR Insulation, Add	3,063.34	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	7,147.80	
26 05 19 16-0567 MLF 750 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	44,621.93	2,646.30
For EPR Insulation, Add	5,470.49	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	12,764.48	
26 05 19 16-0568 MLF 1,000 MCM, XLPE-USE-RHH-RHW, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit.....	56,032.64	2,827.62
For EPR Insulation, Add	7,097.77	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	16,561.46	

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 19 Low-Voltage Electrical Power Conductors and Cables**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0569 MLF #16 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	1,925.18	505.70
26 05 19 16-0570 MLF #14 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	2,386.21	562.21
26 05 19 16-0571 MLF #12 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	2,985.60	675.21
26 05 19 16-0572 MLF #10 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	3,535.77	786.81
26 05 19 16-0573 MLF #8 AWG, Type SFF-2, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	5,168.63	842.47
26 05 19 16-0574 MLF #18 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	651.27	281.10
26 05 19 16-0575 MLF #16 AWG, Type TFFN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	812.38	309.21
26 05 19 16-0576 MLF #14 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	842.98	225.44
26 05 19 16-0577 MLF #12 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	1,043.93	268.74
26 05 19 16-0578 MLF #10 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	1,285.26	338.03
26 05 19 16-0579 MLF #8 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	1,789.55	445.54
26 05 19 16-0580 MLF #6 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	2,413.42	538.03
26 05 19 16-0581 MLF #4 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	3,163.89	635.85
26 05 19 16-0582 MLF #3 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	3,772.29	719.76
26 05 19 16-0583 MLF #2 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	4,493.00	806.07
26 05 19 16-0584 MLF #1 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	5,330.81	909.65
26 05 19 16-0585 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	6,199.86	996.09
26 05 19 16-0586 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	7,020.14	1,100.80
26 05 19 16-0587 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	8,287.12	1,164.32
26 05 19 16-0588 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	9,841.20	1,309.93
26 05 19 16-0589 MLF 250 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	11,518.32	1,393.56
26 05 19 16-0590 MLF 300 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	13,263.63	1,578.25
26 05 19 16-0591 MLF 350 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	15,135.81	1,746.63
26 05 19 16-0592 MLF 400 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	16,944.00	1,794.42
26 05 19 16-0593 MLF 500 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	20,040.37	1,898.42
26 05 19 16-0594 MLF 600 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	24,742.33	2,234.07
26 05 19 16-0595 MLF 750 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	37,570.10	2,646.30
26 05 19 16-0596 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	44,966.31	3,195.01
26 05 19 16-0597 MLF #16 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	3,144.53	675.21
26 05 19 16-0598 MLF #14 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	3,512.87	786.81
26 05 19 16-0599 MLF #12 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	4,064.53	900.23
26 05 19 16-0600 MLF #10 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	5,206.25	1,011.55
26 05 19 16-0601 MLF #8 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	5,888.82	1,124.41
26 05 19 16-0602 MLF #6 AWG, Type TGGT High Temperature, 600 Volt, Copper, Single Stranded Cable, Installed In Conduit .....	7,415.23	1,235.73

**26 05 19 16-0603 600 Volt, Feeder Wire, Single Stranded Aluminum** (26 05 19 16-0309)

26 05 19 16-0604 MLF #6 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	1,457.74	398.72
26 05 19 16-0605 MLF #4 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	1,727.25	463.63
26 05 19 16-0606 MLF #2 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	2,259.01	595.14
26 05 19 16-0607 MLF #1 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	2,790.82	664.58
26 05 19 16-0608 MLF 1/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	3,227.32	748.75
26 05 19 16-0609 MLF 2/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	3,667.73	826.41
26 05 19 16-0610 MLF 3/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	4,321.44	932.64
26 05 19 16-0611 MLF 4/0 AWG, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	4,783.45	1,028.96
26 05 19 16-0612 MLF 250 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	5,527.18	1,131.15
26 05 19 16-0613 MLF 300 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	6,803.70	1,230.11
26 05 19 16-0614 MLF 350 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	7,112.74	1,329.04
26 05 19 16-0615 MLF 400 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	8,126.84	1,478.25
26 05 19 16-0616 MLF 500 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	8,956.18	1,627.41
26 05 19 16-0617 MLF 600 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	10,932.04	1,895.76
26 05 19 16-0618 MLF 700 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	12,344.63	2,078.28
26 05 19 16-0619 MLF 750 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	12,609.99	2,155.32
26 05 19 16-0620 MLF 1,000 MCM, Type THHN-THWN, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	17,288.20	2,614.53
26 05 19 16-0621 MLF #8 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	1,776.02	499.10
26 05 19 16-0622 MLF #6 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	1,997.44	562.21
26 05 19 16-0623 MLF #4 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	2,458.68	691.66
26 05 19 16-0624 MLF #2 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	3,110.03	847.81
26 05 19 16-0625 MLF #1 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	3,945.57	998.06
26 05 19 16-0626 MLF 1/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	4,552.78	1,124.83
26 05 19 16-0627 MLF 2/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	5,180.36	1,249.36
26 05 19 16-0628 MLF 3/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	5,962.89	1,363.07
26 05 19 16-0629 MLF 4/0 AWG, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	6,465.99	1,450.63
26 05 19 16-0630 MLF 250 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	7,346.59	1,552.11
26 05 19 16-0631 MLF 300 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	8,946.49	1,663.42
26 05 19 16-0632 MLF 350 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	9,359.31	1,796.95
26 05 19 16-0633 MLF 400 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	10,589.27	1,959.57
26 05 19 16-0634 MLF 500 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	11,898.58	2,248.82
26 05 19 16-0635 MLF 600 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	13,869.19	2,366.60
26 05 19 16-0636 MLF 700 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	15,418.13	2,495.07
26 05 19 16-0637 MLF 750 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	15,903.35	2,651.64
26 05 19 16-0638 MLF 1,000 MCM, XHHW, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	23,097.49	3,716.18
26 05 19 16-0639 MLF #6 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	1,988.66	562.21
26 05 19 16-0640 MLF #4 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	2,478.35	691.52
26 05 19 16-0641 MLF #2 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	3,088.73	848.93
26 05 19 16-0642 MLF #1 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	3,863.81	992.43
26 05 19 16-0643 MLF 1/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	4,365.15	1,119.63
26 05 19 16-0644 MLF 2/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	4,936.84	1,241.63
26 05 19 16-0645 MLF 3/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	5,706.98	1,363.07
26 05 19 16-0646 MLF 4/0 AWG, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	6,225.76	1,450.63
26 05 19 16-0647 MLF 250 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	7,043.46	1,551.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0648 MLF 300 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	8,495.71	1,665.54
26 05 19 16-0649 MLF 350 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	8,996.91	1,799.34
26 05 19 16-0650 MLF 400 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	9,952.80	1,955.07
26 05 19 16-0651 MLF 500 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	11,453.44	2,248.82
26 05 19 16-0652 MLF 600 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	13,064.89	2,360.28
26 05 19 16-0653 MLF 700 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	14,468.38	2,495.07
26 05 19 16-0654 MLF 750 MCM, XLPE-USE, 600 Volt, Aluminum, Single Stranded Cable, Installed In Conduit .....	15,039.69	2,643.63
<b>26 05 19 16-0655 Non-Metallic Sheathed Cable</b> <small>(26 05 19 16-0309)</small>		
<b>26 05 19 16-0656 Indoor Installation</b> <small>(26 05 19 16-0655)</small>		
<small>Note: For NM, NM-B, NMC-B and NMS-B.</small>		
26 05 19 16-0657 MLF #14 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	3,323.82	1,068.05
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>400.51</i>	
26 05 19 16-0658 MLF #14 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	4,129.11	1,293.07
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>484.92</i>	
26 05 19 16-0659 MLF #14 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	5,667.33	1,430.82
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>536.55</i>	
26 05 19 16-0660 MLF #12 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	4,009.80	1,214.36
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>432.20</i>	
26 05 19 16-0661 MLF #12 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	5,505.25	1,349.01
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>505.90</i>	
26 05 19 16-0662 MLF #12 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	7,064.99	1,506.71
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>565.02</i>	
26 05 19 16-0663 MLF #10 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	4,931.38	1,349.71
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>506.16</i>	
26 05 19 16-0664 MLF #10 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	7,333.43	1,574.46
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>590.42</i>	
26 05 19 16-0665 MLF #10 AWG, 4 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	8,675.98	1,799.06
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>674.65</i>	
26 05 19 16-0666 MLF #8 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	8,417.59	1,616.34
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>575.56</i>	
26 05 19 16-0667 MLF #8 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	10,661.33	1,953.67
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>695.73</i>	
26 05 19 16-0668 MLF #6 AWG, 2 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	10,803.80	1,841.22
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>653.56</i>	
26 05 19 16-0669 MLF #6 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	14,238.93	2,220.71
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>790.60</i>	
26 05 19 16-0670 MLF #4 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	30,740.98	2,445.59
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>869.66</i>	
26 05 19 16-0671 MLF #2 AWG, 3 Conductors, 600 Volt, Type NM, Copper, Non-Metallic Sheathed Cable .....	35,713.77	2,656.42
<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	<i>948.72</i>	
<b>26 05 19 16-0672 Direct Burial Cable</b> <small>(26 05 19 16-0655)</small>		
<small>Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.</small>		
26 05 19 16-0673 MLF #14 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	3,125.17	
26 05 19 16-0674 MLF #14 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	4,052.19	
26 05 19 16-0675 MLF #12 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	3,950.10	
26 05 19 16-0676 MLF #12 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	4,986.62	
26 05 19 16-0677 MLF #10 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	4,256.36	
26 05 19 16-0678 MLF #10 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench .....	5,998.68	
26 05 19 16-0679 MLF #8 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	6,380.22	
26 05 19 16-0680 MLF #8 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	8,116.79	
26 05 19 16-0681 MLF #6 AWG, 2 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	7,988.02	
26 05 19 16-0682 MLF #6 AWG, 3 Conductors, 600 Volt, Type UF Copper, Direct Burial Non-Metallic Sheathed Cable, Placed In Trench.....	10,407.63	
<b>26 05 19 16-0683 SEU Cable Copper, 3 Conductor</b> <small>(26 05 19 16-0655)</small>		
26 05 19 16-0684 MLF 12-12-12 Cable SEU Copper .....	4,130.81	1,354.09
26 05 19 16-0685 MLF 10-10-10 Cable SEU Copper .....	5,178.53	1,538.21
26 05 19 16-0686 MLF 8-8-8 Cable SEU Copper .....	6,436.97	1,722.49
26 05 19 16-0687 MLF 6-6-8 Cable SEU Copper .....	7,766.05	1,846.63
26 05 19 16-0688 MLF 6-6-6 Cable SEU Copper.....	8,351.62	1,908.46
26 05 19 16-0689 MLF 4-4-6 Cable SEU Copper .....	10,173.74	2,092.74
26 05 19 16-0690 MLF 4-4-4 Cable SEU Copper .....	10,959.36	2,154.43
26 05 19 16-0691 MLF 3-3-5 Cable SEU Copper .....	12,755.62	2,337.78
26 05 19 16-0692 MLF 3-3-3 Cable SEU Copper.....	13,548.08	2,461.14
26 05 19 16-0693 MLF 2-2-4 Cable SEU Copper .....	14,471.87	2,585.28
26 05 19 16-0694 MLF 2-2-2 Cable SEU Copper .....	15,471.06	2,708.18
26 05 19 16-0695 MLF 1-1-1 Cable SEU Copper .....	18,931.81	3,076.43
26 05 19 16-0696 MLF 1/0-1/0-1/0 Cable SEU Copper .....	22,525.62	3,448.99
26 05 19 16-0697 MLF 2/0-2/0-2/0 Cable SEU Copper .....	27,119.52	3,884.46
26 05 19 16-0698 MLF 3/0-3/0-3/0 Cable SEU Copper .....	32,620.76	4,320.85
26 05 19 16-0699 MLF 4/0-4/0-4/0 Cable SEU Copper .....	36,455.34	4,822.00

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 19 Low-Voltage Electrical Power Conductors and Cables**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 19 16-0700 SEU Cable Aluminum, 3 Conductor</b> (26 05 19 16-0655)		
26 05 19 16-0701 MLF 8-8-8 Cable SEU Aluminum.....	5,360.08	1,728.33
26 05 19 16-0702 MLF 6-6-6 Cable SEU Aluminum.....	6,083.73	1,899.08
26 05 19 16-0703 MLF 4-4-6 Cable SEU Aluminum.....	6,812.16	2,078.75
26 05 19 16-0704 MLF 4-4-4 Cable SEU Aluminum.....	7,129.35	2,166.58
26 05 19 16-0705 MLF 2-2-4 Cable SEU Aluminum.....	8,519.46	2,563.74
26 05 19 16-0706 MLF 2-2-2 Cable SEU Aluminum.....	9,035.17	2,698.65
26 05 19 16-0707 MLF 1-1-1 Cable SEU Aluminum.....	10,792.49	3,076.43
26 05 19 16-0708 MLF 1/0-1/0-2 Cable SEU Aluminum.....	11,417.73	3,238.41
26 05 19 16-0709 MLF 1/0-1/0-1/0 Cable SEU Aluminum.....	13,687.90	3,418.22
26 05 19 16-0710 MLF 2/0-2/0-1 Cable SEU Aluminum.....	12,893.54	3,662.49
26 05 19 16-0711 MLF 2/0-2/0-2/0 Cable SEU Aluminum.....	13,612.18	3,845.54
26 05 19 16-0712 MLF 3/0-3/0-1/0 Cable SEU Aluminum.....	14,769.12	4,026.74
26 05 19 16-0713 MLF 3/0-3/0-3/0 Cable SEU Aluminum.....	15,787.67	4,272.85
26 05 19 16-0714 MLF 4/0-4/0-2/0 Cable SEU Aluminum.....	16,707.64	4,619.26
26 05 19 16-0715 MLF 4/0-4/0-4/0 Cable SEU Aluminum.....	17,619.35	4,806.92
<b>26 05 19 16-0716 SER Cable Copper, 4 Conductor</b> (26 05 19 16-0655)		
26 05 19 16-0717 MLF 6-6-6-6 Cable SER Copper.....	11,923.61	2,216.42
26 05 19 16-0718 MLF 4-4-4-6 Cable SER Copper.....	13,063.27	2,399.77
26 05 19 16-0719 MLF 3-3-3-5 Cable SER Copper.....	16,088.01	2,708.18
26 05 19 16-0720 MLF 2-2-2-4 Cable SER Copper.....	18,361.96	2,952.45
26 05 19 16-0721 MLF 1-1-1-3 Cable SER Copper.....	21,378.65	3,380.69
26 05 19 16-0722 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	25,946.33	3,874.61
26 05 19 16-0723 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	32,253.15	4,179.94
26 05 19 16-0724 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	37,196.33	4,675.41
<b>26 05 19 16-0725 SER Cable Aluminum, 4 Conductor</b> (26 05 19 16-0655)		
26 05 19 16-0726 MLF 8-8-8-8 Cable SER Aluminum.....	7,046.59	2,068.75
26 05 19 16-0727 MLF 6-6-6-6 Cable SER Aluminum.....	7,689.56	2,216.42
26 05 19 16-0728 MLF 4-4-4-6 Cable SER Aluminum.....	8,622.56	2,399.77
26 05 19 16-0729 MLF 2-2-2-4 Cable SER Aluminum.....	10,874.79	2,952.45
26 05 19 16-0730 MLF 1-1-1-3 Cable SER Aluminum.....	13,124.75	3,380.69
26 05 19 16-0731 MLF 1/0-1/0-1/0-2 Cable SER Aluminum.....	14,817.08	3,874.61
26 05 19 16-0732 MLF 2/0-2/0-2/0-1 Cable SER Aluminum.....	16,607.31	4,179.94
26 05 19 16-0733 MLF 3/0-3/0-3/0-1/0 Cable SER Aluminum.....	18,922.62	4,675.41
26 05 19 16-0734 MLF 4/0-4/0-4/0-2/0 Cable SER Aluminum.....	21,506.90	5,209.78
<b>26 05 19 16-0735 Control Tray Cable, Low Voltage</b> (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0736 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,335.07	681.82
For Work In Restricted Working Space, Add	340.91	
26 05 19 16-0737 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,526.63	762.69
For Work In Restricted Working Space, Add	381.35	
26 05 19 16-0738 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,578.68	762.63
For Work In Restricted Working Space, Add	381.35	
26 05 19 16-0739 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,977.50	956.57
For Work In Restricted Working Space, Add	478.28	
26 05 19 16-0740 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,467.93	1,165.67
For Work In Restricted Working Space, Add	582.83	
26 05 19 16-0741 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,789.29	1,281.83
For Work In Restricted Working Space, Add	640.91	
26 05 19 16-0742 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,279.08	1,456.48
For Work In Restricted Working Space, Add	728.24	
26 05 19 16-0743 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,111.99	1,780.23
For Work In Restricted Working Space, Add	890.11	
26 05 19 16-0744 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,646.80	1,942.14
For Work In Restricted Working Space, Add	971.07	
26 05 19 16-0745 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,334.66	2,002.85
For Work In Restricted Working Space, Add	1,001.43	
26 05 19 16-0746 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,568.88	2,502.09
For Work In Restricted Working Space, Add	1,251.05	
26 05 19 16-0747 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	7,835.35	2,924.17
For Work In Restricted Working Space, Add	1,462.09	
26 05 19 16-0748 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,444.49	718.22
For Work In Restricted Working Space, Add	358.83	
26 05 19 16-0749 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,657.41	802.83
For Work In Restricted Working Space, Add	401.42	
26 05 19 16-0750 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,924.86	924.26
For Work In Restricted Working Space, Add	462.14	
26 05 19 16-0751 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,157.21	1,006.91
For Work In Restricted Working Space, Add	503.45	
26 05 19 16-0752 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,701.47	1,227.01
For Work In Restricted Working Space, Add	613.51	
26 05 19 16-0753 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable.....	3,064.95	1,349.29
For Work In Restricted Working Space, Add	674.65	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0754 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,619.74 766.57	1,533.13
26 05 19 16-0755 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,554.24 936.92	1,873.84
26 05 19 16-0756 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,169.34 1,022.09	2,044.18
26 05 19 16-0757 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,009.49 1,054.13	2,108.27
26 05 19 16-0758 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,387.82 1,316.83	2,633.65
26 05 19 16-0759 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,832.28 1,539.04	3,078.08
26 05 19 16-0760 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,551.11 374.85	749.70
26 05 19 16-0761 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,825.41 421.66	843.31
26 05 19 16-0762 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,126.93 481.95	963.90
26 05 19 16-0763 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,368.90 519.06	1,038.11
26 05 19 16-0764 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,096.73 636.28	1,272.55
26 05 19 16-0765 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,537.63 702.90	1,405.52
26 05 19 16-0766 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,258.35 784.28	1,568.55
26 05 19 16-0767 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,086.50 936.92	1,873.54
26 05 19 16-0768 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,074.96 1,088.29	2,177.14
26 05 19 16-0769 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,484.11 1,272.97	2,545.38
26 05 19 16-0770 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,638.72 1,422.24	2,844.48
26 05 19 16-0771 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,353.34 1,662.16	3,324.32
26 05 19 16-0772 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	1,769.77 401.42	802.83
26 05 19 16-0773 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,077.32 444.00	888.28
26 05 19 16-0774 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,495.96 511.04	1,022.09
26 05 19 16-0775 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,788.92 543.93	1,087.87
26 05 19 16-0776 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,604.70 648.50	1,297.01
26 05 19 16-0777 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,412.22 766.57	1,533.13
26 05 19 16-0778 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,295.62 864.81	1,729.63
26 05 19 16-0779 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,264.18 992.15	1,984.31
26 05 19 16-0780 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,356.04 1,124.55	2,249.11
26 05 19 16-0781 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	9,289.61 1,314.30	2,628.59
26 05 19 16-0782 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	10,772.26 1,536.08	3,072.17
26 05 19 16-0783 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,963.25 1,795.40	3,590.81
26 05 19 16-0784 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,050.15 421.66	843.31
26 05 19 16-0785 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,492.60 462.14	924.82
26 05 19 16-0786 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	2,998.83 527.07	1,054.13
26 05 19 16-0787 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	3,443.52 571.76	1,143.52
26 05 19 16-0788 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	4,604.02 717.65	1,435.31
26 05 19 16-0789 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	5,409.78 803.25	1,606.50
26 05 19 16-0790 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	6,304.78 936.92	1,873.84
26 05 19 16-0791 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	7,415.51 1,071.42	2,142.84
26 05 19 16-0792 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	8,737.68 1,214.36	2,428.73
26 05 19 16-0793 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	11,112.17 1,419.29	2,838.58
26 05 19 16-0794 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	12,876.86 1,658.79	3,317.58
26 05 19 16-0795 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Work In Restricted Working Space, Add</i>	15,536.10 1,939.19	3,878.37

**26 Electrical****26 05 Common Work Results for Electrical****26 05 19 Low-Voltage Electrical Power Conductors and Cables**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

26 05 19 16-0796	<b>ACSR (Aluminum Conductor Steel Reinforced)</b> <small>(26 05 19 16-0011)</small>			
	Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.			
26 05 19 16-0797	<b>ACSR Cable</b> <small>(26 05 19 16-0796)</small>			
26 05 19 16-0798	MLF	#4 AWG, ACSR Cable Swan 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,467.31	688.28
26 05 19 16-0799	MLF	#4 AWG, ACSR Cable Swanate 7/1, Aluminum Cable, Installed On Poles (Aerial)	2,670.53	714.69
26 05 19 16-0800	MLF	#2 AWG, ACSR Cable Sparrow 6/1, Aluminum Cable, Installed On Poles (Aerial)	2,974.61	742.20
26 05 19 16-0801	MLF	#2 AWG, ACSR Cable Sparate 7/1, Aluminum Cable, Installed On Poles (Aerial)	3,177.90	769.07
26 05 19 16-0802	MLF	1/0 AWG, ACSR Cable Raven 6/1, Aluminum Cable, Installed On Poles (Aerial)	3,724.06	795.16
26 05 19 16-0803	MLF	2/0 AWG, ACSR Cable Quail 6/1, Aluminum Cable, Installed On Poles (Aerial)	4,414.03	901.39
26 05 19 16-0804	MLF	3/0 AWG, ACSR Cable Pigeon 6/1, Aluminum Cable, Installed On Poles (Aerial)	5,216.97	1,005.23
26 05 19 16-0805	MLF	4/0 AWG, ACSR Cable Penguin 6/1, Aluminum Cable, Installed On Poles (Aerial)	6,136.67	1,110.52
26 05 19 16-0806	MLF	336 AWG ACSR Cable Merlin 18/1, Aluminum Cable, Installed On Poles (Aerial)	6,810.86	1,427.15
26 05 19 16-0807	MLF	477 AWG, ACSR Cable Hawk 26/1, Aluminum Cable, Installed On Poles (Aerial)	7,706.27	1,637.06
26 05 19 16-0808	<b>All Aluminum Conductors</b> <small>(26 05 19 16-0796)</small>			
26 05 19 16-0809	MLF	795.0 ACSR Conductor Aluminum	49,926.36	13,394.67
26 05 19 16-0810	<b>Single Conductor Installed On Poles</b> <small>(26 05 19 16-0011)</small>			
26 05 19 16-0811	<b>Bare Stranded Conductor</b> <small>(26 05 19 16-0810)</small>			
26 05 19 16-0812	MLF	#12 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,684.70	583.17
26 05 19 16-0813	MLF	#10 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	1,941.70	635.65
26 05 19 16-0814	MLF	#8 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	2,200.39	688.76
26 05 19 16-0815	MLF	#6 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	2,627.08	742.20
26 05 19 16-0816	MLF	#4 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	3,122.35	795.79
26 05 19 16-0817	MLF	#2 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	4,346.77	954.50
26 05 19 16-0818	MLF	#1 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	4,970.33	1,060.26
26 05 19 16-0819	MLF	1/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	5,641.12	1,164.10
26 05 19 16-0820	MLF	2/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	7,443.51	1,380.71
26 05 19 16-0821	MLF	3/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	8,973.20	1,587.45
26 05 19 16-0822	MLF	4/0 AWG, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	9,695.49	1,799.12
26 05 19 16-0823	MLF	250 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	12,166.64	2,120.36
26 05 19 16-0824	MLF	300 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	12,488.17	2,232.00
26 05 19 16-0825	MLF	350 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	15,288.31	2,337.43
26 05 19 16-0826	MLF	400 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	16,793.86	2,433.33
26 05 19 16-0827	MLF	500 MCM, Single Conductor, Bare Stranded Copper Cable, Installed On Poles	19,376.14	2,537.18
26 05 19 16-0828	<b>Insulated Stranded Conductor</b> <small>(26 05 19 16-0810)</small>			
26 05 19 16-0829	MLF	#12 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	1,789.51	583.17
26 05 19 16-0830	MLF	#10 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	2,076.93	635.65
26 05 19 16-0831	MLF	#8 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	2,467.35	688.76
26 05 19 16-0832	MLF	#6 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	2,677.61	742.20
26 05 19 16-0833	MLF	#4 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	3,199.44	795.79
26 05 19 16-0834	MLF	#2 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	4,235.43	954.50
26 05 19 16-0835	MLF	#1 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	4,959.22	1,060.26
26 05 19 16-0836	MLF	1/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	5,796.14	1,164.10
26 05 19 16-0837	MLF	2/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	6,967.46	1,380.71
26 05 19 16-0838	MLF	3/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	8,309.63	1,587.45
26 05 19 16-0839	MLF	4/0 AWG, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	9,747.26	1,799.12
26 05 19 16-0840	MLF	250 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	11,849.91	2,120.36
26 05 19 16-0841	MLF	300 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	13,326.55	2,232.00
26 05 19 16-0842	MLF	350 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	14,540.44	2,337.43
26 05 19 16-0843	MLF	400 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	16,173.78	2,433.33
26 05 19 16-0844	MLF	500 MCM, Single Conductor, Insulated Stranded Copper Cable, Installed On Poles	18,057.24	2,537.18
26 05 19 16-0845	<b>Bare Solid Conductor</b> <small>(26 05 19 16-0810)</small>			
26 05 19 16-0846	MLF	#12 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	1,684.70	583.17
26 05 19 16-0847	MLF	#8 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,200.39	688.76
26 05 19 16-0848	MLF	#6 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	2,627.08	742.20
26 05 19 16-0849	MLF	#4 AWG, Single Conductor, Bare Solid Copper Cable, Installed On Poles	3,090.49	795.79

**26 05 23 Control-Voltage Electrical Power Cables** (26 05)

26 05 23 00-0001	<b>Cable For HVAC System Controls</b> <small>(26 05 23)</small>			
26 05 23 00-0002	<b>Low Voltage Thermostat Cable To 300 Volt</b> <small>(26 05 23 00-0001)</small>			
	Note: For surface or conduit installation.			
26 05 23 00-0003	MLF	#20/2 Conductor, Low Volt Thermostat Cable	583.12	179.20
26 05 23 00-0004	MLF	#20/3 Conductor, Low Volt Thermostat Cable	659.39	188.76
26 05 23 00-0005	MLF	#20/4 Conductor, Low Volt Thermostat Cable	712.62	199.58
26 05 23 00-0006	MLF	#20/5 Conductor, Low Volt Thermostat Cable	840.68	208.02
26 05 23 00-0007	MLF	#20/6 Conductor, Low Volt Thermostat Cable	880.01	217.86
26 05 23 00-0008	MLF	#20/7 Conductor, Low Volt Thermostat Cable	964.36	226.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 23 00-0009 MLF #20/8 Conductor, Low Volt Thermostat Cable .....	1,038.19	235.98
26 05 23 00-0010 MLF #20/9 Conductor, Low Volt Thermostat Cable .....	1,122.83	245.40
26 05 23 00-0011 MLF #20/10 Conductor, Low Volt Thermostat Cable .....	1,203.47	252.77
26 05 23 00-0012 MLF #18/2 Conductor, Low Volt Thermostat Cable .....	627.07	179.20
26 05 23 00-0013 MLF #18/3 Conductor, Low Volt Thermostat Cable .....	737.79	188.76
26 05 23 00-0014 MLF #18/4 Conductor, Low Volt Thermostat Cable .....	837.01	199.58
26 05 23 00-0015 MLF #18/5 Conductor, Low Volt Thermostat Cable .....	892.04	208.02
26 05 23 00-0016 MLF #18/6 Conductor, Low Volt Thermostat Cable .....	983.16	217.86
26 05 23 00-0017 MLF #18/7 Conductor, Low Volt Thermostat Cable .....	1,011.72	226.92
26 05 23 00-0018 MLF #18/8 Conductor, Low Volt Thermostat Cable .....	1,110.47	235.98
26 05 23 00-0019 MLF #18/9 Conductor, Low Volt Thermostat Cable .....	1,296.25	245.40
26 05 23 00-0020 MLF #18/10 Conductor, Low Volt Thermostat Cable .....	1,417.36	252.77

**26 05 26 Grounding and Bonding for Electrical Systems (26 05)**

26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)

26 05 26 00-0002 Single Conductor (26 05 26 00-0001)

26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor .....	690.92	269.90
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor .....	897.81	269.90
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor .....	1,105.79	325.12
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor .....	1,490.70	325.12
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor .....	1,975.16	392.59
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor .....	3,060.05	392.59
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor .....	3,529.43	472.34
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor .....	4,135.90	472.34
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor .....	5,753.57	595.02
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor .....	7,072.40	595.02
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor .....	7,530.28	791.32
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor .....	9,623.62	791.32
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor .....	9,673.05	914.00
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor .....	12,961.61	914.00
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor .....	17,645.70	1,128.70

26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor .....	1,245.01	368.06
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor .....	1,339.49	368.06
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor .....	1,704.97	368.06
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor .....	1,947.75	637.96
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor .....	2,610.92	637.96
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor .....	3,658.37	637.96
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor .....	4,406.95	1,116.43
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor .....	5,361.97	1,116.43
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor .....	6,261.95	1,116.43
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor .....	7,430.72	1,116.43
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor .....	8,739.57	1,459.95
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor .....	10,530.52	1,459.95
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor .....	12,239.45	1,459.95
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor .....	14,389.60	2,269.67
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor .....	18,711.81	2,269.67

26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor .....	690.92	269.90
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor .....	897.81	269.90
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor .....	1,105.79	325.12
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor .....	1,490.70	325.12
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor .....	1,975.16	392.59
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor .....	3,060.05	392.59
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor .....	4,135.90	472.34
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor .....	7,530.28	625.70

26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor .....	861.69	325.12
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor .....	952.36	325.12
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor .....	1,093.23	392.59
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor .....	1,382.67	392.59
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor .....	1,612.17	472.34
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor .....	1,846.86	472.34
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor .....	2,113.51	595.02
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor .....	2,441.82	595.02
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor .....	2,902.29	791.32
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor .....	3,266.08	791.32
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor .....	3,924.22	914.00
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor .....	4,481.63	914.00
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor .....	5,265.41	1,128.70

**26 Electrical****26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 26 00-0058 Aluminum Bare Single Solid Conductors</b> (26 05 26 00-0002)		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor .....	861.69	325.12
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor .....	952.36	325.12
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor .....	1,093.23	392.59
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor .....	1,382.67	392.59
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor .....	1,562.66	625.70
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor .....	1,846.86	625.70
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor .....	1,990.86	595.02
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor .....	2,194.85	595.02
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor .....	2,902.29	791.32
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor .....	3,266.08	791.32
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor .....	3,924.22	914.00
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor .....	4,481.63	914.00
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor .....	5,265.41	1,128.70
<b>26 05 26 00-0072 Aluminum Smooth Woven Conductors</b> (26 05 26 00-0002)		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	3.47	1.06
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	3.83	1.17
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	4.54	1.34
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	4.57	1.37
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor .....	4.79	1.43
<b>26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap</b> (26 05 26 00-0001)		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079 EA 100 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	165.66	38.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 05 26 00-0080 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	280.89	46.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 05 26 00-0081 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	356.40	46.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 05 26 00-0082 EA 225 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	430.88	46.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 05 26 00-0083 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	377.08	49.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.61	
26 05 26 00-0084 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 18" Length.....	485.70	49.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.61	
26 05 26 00-0085 EA 400 Amperes, Copper Flexible Braid Jumper Strap, 24" Length.....	580.09	49.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.61	
26 05 26 00-0086 EA 600 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	487.97	63.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.07	
26 05 26 00-0087 EA 800 Amperes, Copper Flexible Braid Jumper Strap, 12" Length.....	586.96	76.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
<b>26 05 26 00-0088 Bonding Jumper For Metallic Conduit</b> (26 05 26 00-0001)		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper, Metallic Conduit.....	227.96	84.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.07	
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper, Metallic Conduit.....	280.82	84.60
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.16	
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper, Metallic Conduit.....	404.80	130.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.92	
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper, Metallic Conduit.....	591.30	130.75
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	85.46	
<b>26 05 26 00-0093 Ground Rods</b> (26 05 26)		
<b>26 05 26 00-0094 Copper-Clad Ground Rods</b> (26 05 26 00-0093)		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods.....	125.71	115.36
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods.....	130.31	115.36
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods.....	148.87	115.36
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods.....	147.55	115.36
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods.....	153.29	115.36
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods.....	176.49	115.36
<b>26 05 26 00-0101 Copper Grounding Shaft</b> (26 05 26 00-0093)		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	383.80	115.36
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	474.33	115.36
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	719.70	115.36
<b>26 05 26 00-0105 Ground Access Wells</b> (26 05 26 00-0093)		
<b>26 05 26 00-0106 Precast Ground Access Wells</b> (26 05 26 00-0105)		
26 05 26 00-0107 EA 8" Diameter x 24" Deep Precast Ground Access Well.....	282.72	
Note: With cast iron grate.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0108 EA 10" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	292.91	
26 05 26 00-0109 EA 12" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	857.48	
26 05 26 00-0110 EA 18" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	867.66	
<b>26 05 26 00-0111 Polyvinyl Chloride (PVC) Ground Access Well</b> <small>(26 05 26 00-0105)</small>		
26 05 26 00-0112 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with cast iron grated cover.	559.52	
26 05 26 00-0113 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with cast iron grated cover.	681.83	
26 05 26 00-0114 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with cast iron grated cover.	1,502.18	
26 05 26 00-0115 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with flat steel cover.	423.79	
26 05 26 00-0116 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with flat steel cover.	513.03	
26 05 26 00-0117 EA 18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with flat steel cover.	1,343.64	
26 05 26 00-0118 EA 8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	243.04	
26 05 26 00-0119 EA 10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	334.83	
26 05 26 00-0120 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	398.97	
26 05 26 00-0121 EA 8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover .....	197.42	
26 05 26 00-0122 EA 10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover .....	308.59	
26 05 26 00-0123 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	462.49	
26 05 26 00-0124 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	638.68	
26 05 26 00-0125 EA 8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	443.10	
26 05 26 00-0126 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	476.71	
26 05 26 00-0127 EA 10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron cover, heavy duty.	856.08	
26 05 26 00-0128 EA 10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron cover, heavy duty.	1,081.22	
26 05 26 00-0129 EA 12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron cover, heavy duty.	475.12	
26 05 26 00-0130 EA 12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron cover, heavy duty.	648.76	
26 05 26 00-0131 EA 12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron cover, heavy duty.	641.03	
<b>26 05 26 00-0132 Polymer Concrete Ground Access Well</b> <small>(26 05 26 00-0105)</small>		
26 05 26 00-0133 EA 12" x 12" x 12" Polymer Concrete Ground Access Well .....	540.40	
26 05 26 00-0134 EA 12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well .....	593.10	
26 05 26 00-0135 EA 12" x 12" x 18" Polymer Concrete Ground Access Well .....	595.65	
26 05 26 00-0136 EA 12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well .....	653.64	
26 05 26 00-0137 EA 12" x 12" x 24" Polymer Concrete Ground Access Well .....	653.02	
26 05 26 00-0138 EA 12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well .....	716.80	
26 05 26 00-0139 EA 13" x 24" x 18" Polymer Concrete Ground Access Well .....	872.24	
26 05 26 00-0140 EA 13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well .....	959.26	
<b>26 05 26 00-0141 High Density Polyethylene (HDPE) Ground Access Well</b> <small>(26 05 26 00-0105)</small>		
26 05 26 00-0142 EA 9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	195.50	
26 05 26 00-0143 EA 14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	272.87	
<b>26 05 26 00-0144 Clay Tile Ground Access Wells</b> <small>(26 05 26 00-0105)</small>		
26 05 26 00-0145 EA 8" Diameter x 24" Deep Clay Tile Ground Access Well With Concrete Cover .....	309.22	
26 05 26 00-0146 EA 8" Diameter x 24" Deep Clay Tile Ground Access Well With Cast Iron Grated Cover .....	325.38	
26 05 26 00-0147 EA Concrete Cover For 8" Diameter x 24" Deep Clay Tile Ground Access Well.....	99.28	
<b>26 05 26 00-0148 Ground Rod Clamps And Fittings</b> <small>(26 05 26)</small>		
<b>26 05 26 00-0149 Bronze Ground Rod Clamp</b> <small>(26 05 26 00-0148)</small>		
26 05 26 00-0150 EA 1/2" Bronze Ground Rod Clamp .....	29.58	17.38
26 05 26 00-0151 EA 5/8" Bronze Ground Rod Clamp .....	30.74	17.38
26 05 26 00-0152 EA 3/4" Bronze Ground Rod Clamp .....	32.38	17.38
<b>26 05 26 00-0153 Bronze Pipe Clamps</b> <small>(26 05 26 00-0148)</small>		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 26 Grounding and Bonding for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0154 EA 1/2" To 1" Bronze Pipe Ground Clamps.....	41.50	28.92
26 05 26 00-0155 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe .....	52.89	34.61
26 05 26 00-0156 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe .....	79.16	40.45
26 05 26 00-0157 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe .....	96.72	51.99
26 05 26 00-0158 EA 4" To 6" Bronze Ground Clamps For Pipe .....	148.23	75.06
<b>26 05 26 00-0159 Grounding Fittings</b> <small>(26 05 26 00-0148)</small>		
<b>26 05 26 00-0160 Embedded Fittings</b> <small>(26 05 26 00-0159)</small>		
26 05 26 00-0161 EA Ground Insert With Two 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded .....	198.90	
26 05 26 00-0162 EA Ground Insert With Four 3/8 x 16 Holes #2 To 250 MCM Cable Range, Embedded .....	209.40	
26 05 26 00-0163 EA Ground Insert With Four 3/8 x 16 Holes 250 To 500 MCM Cable Range, Embedded.....	228.03	
26 05 26 00-0164 EA #8 To 1 AWG, Copper To Aluminum, Grounding Wire Splice.....	201.41	
26 05 26 00-0165 EA 1/0 To 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....	241.38	
26 05 26 00-0166 EA 4/0 To 300 MCM, Copper To Aluminum, Grounding Wire Splice.....	282.88	
26 05 26 00-0167 EA 350 To 500 MCM, Copper To Aluminum, Grounding Wire Splice.....	318.20	
<b>26 05 26 00-0168 Ground Rod Receptacle</b> <small>(26 05 26 00-0159)</small>		
26 05 26 00-0169 EA 1/2" Ground Rod Receptacle .....	427.08	159.98
26 05 26 00-0170 EA 5/8" Ground Rod Receptacle .....	445.27	164.48
26 05 26 00-0171 EA 3/4" Ground Rod Receptacle .....	463.93	168.95
<b>26 05 26 00-0172 Ground Kits For Circuit Breaker Panels</b> <small>(26 05 26 00-0159)</small>		
26 05 26 00-0173 EA 14-8 AWG Copper Ground Kit .....	96.70	38.46
26 05 26 00-0174 EA 12-8 AWG Aluminum Ground Kit .....	102.11	38.46
26 05 26 00-0175 EA 14-4 AWG Copper Ground Kit .....	105.52	38.46
26 05 26 00-0176 EA 12-4 AWG Aluminum Ground Kit.....	119.74	38.46
<b>26 05 26 00-0177 Insulated Grounding Bars</b> <small>(26 05 26 00-0148)</small>		
26 05 26 00-0178 EA 1/2" x 4" x 10" Insulated Ground Bar .....	386.08	38.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.22	
26 05 26 00-0179 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20" .....	403.14	38.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.22	
<b>26 05 26 00-0180 Ground Conductor Bonding</b> <small>(26 05 26)</small>		
<b>26 05 26 00-0181 Ground Conductor Bonding</b> <small>(26 05 26 00-0180)</small>		
<b>26 05 26 00-0182 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld</b> <small>(26 05 26 00-0181)</small>		
26 05 26 00-0183 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	173.55	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0184 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	188.94	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0185 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	204.32	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0186 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel .....	296.60	
Note: Includes molds, materials and all necessary tools to make connections.		
<b>26 05 26 00-0187 Tee, Wye Or Cross Cadweld</b> <small>(26 05 26 00-0181)</small>		
26 05 26 00-0188 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	196.63	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0189 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross .....	227.38	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0190 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross .....	281.23	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0191 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....	342.75	
Note: Includes molds, materials and all necessary tools to make connections.		
<b>26 05 26 00-0192 Grounding Equipment</b> <small>(26 05 26)</small>		
<b>26 05 26 00-0193 Special Grounding Equipment</b> <small>(26 05 26 00-0192)</small>		
<b>26 05 26 00-0194 Ground Reels And Ground Bus</b> <small>(26 05 26 00-0193)</small>		
26 05 26 00-0195 EA Ground Reel With 50' Of Galvanized Steel Cable.....	839.57	
<b>26 05 26 00-0196 Copper Bars</b> <small>(26 05 26 00-0193)</small>		
26 05 26 00-0197 LF 1/4" x 2" Copper Bar .....	49.58	
<b>26 05 26 00-0198 Phenolic Insulators</b> <small>(26 05 26 00-0193)</small>		
26 05 26 00-0199 EA 2" x 2" x 1" Long Phenolic Insulators .....	38.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 26 00-0200    Grounding Studs</b> <small>(26 05 26 00-0193)</small>		
26 05 26 00-0201    EA    Ball Grounding Stud.....	56.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		13.78
<b>26 05 26 00-0202    Equipment Ground Bar Kits</b> <small>(26 05 26 00-0193)</small>		
26 05 26 00-0203    EA    Switch Rating 30 Ground Bar Kit .....	42.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.23
26 05 26 00-0204    EA    Switch Rating 60 Ground Bar Kit .....	53.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		10.15
26 05 26 00-0205    EA    Switch Rating 100 Ground Bar Kit .....	62.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		11.54
26 05 26 00-0206    EA    Switch Rating 200 Ground Bar Kit .....	103.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		13.85
<b>26 05 26 00-0207    Panelboard Ground Bar Kits</b> <small>(26 05 26 00-0193)</small>		
26 05 26 00-0208    EA    Panelboard Ground Bar Kit.....	144.38	11.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		11.54
<b>26 05 26 00-0209    Circuit Breaker Ground Bar Kits</b> <small>(26 05 26 00-0193)</small>		
26 05 26 00-0210    EA    3 Circuit, Ground Bar Kit.....	34.94	6.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.92
26 05 26 00-0211    EA    4 Circuit, Ground Bar Kit.....	34.39	6.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.92
26 05 26 00-0212    EA    7 Circuit, Ground Bar Kit.....	35.31	6.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.92
26 05 26 00-0213    EA    12 Circuit, Ground Bar Kit.....	40.03	7.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		7.85
26 05 26 00-0214    EA    20 Circuit, Ground Bar Kit.....	45.48	8.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.77
26 05 26 00-0215    EA    24 Circuit, Ground Bar Kit.....	50.21	9.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.69
26 05 26 00-0216    EA    30 Circuit, Ground Bar Kit.....	56.27	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		11.07
26 05 26 00-0217    EA    54 Circuit, Ground Bar Kit.....	65.17	12.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		12.92
26 05 26 00-0218    EA    24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug .....	68.65	9.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.69
26 05 26 00-0219    EA    30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug .....	76.17	11.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		11.07
26 05 26 00-0220    EA    54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug .....	85.26	12.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		12.92
<b>26 05 29    Hangers and Supports for Electrical Systems</b> <small>(26 05)</small>		
<b>26 05 29 00-0001    Metal Framing Channel And Fittings</b> <small>(26 05 29)</small>		
<b>26 05 29 00-0002    Metal Framing Channel</b> <small>(26 05 29 00-0001)</small>		
Note: Excludes fasteners and accessories.		
<b>26 05 29 00-0003    14 Gauge Metal Framing Channels</b> <small>(26 05 29 00-0002)</small>		
<b>26 05 29 00-0004    14 Gauge, Steel Unistrut Channel</b> <small>(26 05 29 00-0003)</small>		
26 05 29 00-0005    EA    Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....	27.29	8.44
26 05 29 00-0006    EA    >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	30.68	8.44
26 05 29 00-0007    LF    >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel.....	13.95	3.17
<b>26 05 29 00-0008    14 Gauge, 304 Stainless Steel Unistrut Channel</b> <small>(26 05 29 00-0003)</small>		
26 05 29 00-0009    EA    Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	50.02	8.44
26 05 29 00-0010    EA    Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	55.59	8.44
26 05 29 00-0011    EA    >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel.....	76.13	8.44
26 05 29 00-0012    EA    >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	87.27	8.44
26 05 29 00-0013    LF    >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	36.68	3.18
26 05 29 00-0014    LF    >2' Length x 1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	42.25	3.18
<b>26 05 29 00-0015    14 Gauge, 316 Stainless Steel Unistrut Channel</b> <small>(26 05 29 00-0003)</small>		
26 05 29 00-0016    EA    Up To 1' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	74.06	8.44
26 05 29 00-0017    EA    >1' To 2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	124.23	8.44
26 05 29 00-0018    LF    >2' Length x 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel .....	60.72	3.18
<b>26 05 29 00-0019    12 Gauge Metal Framing Channels</b> <small>(26 05 29 00-0002)</small>		
<b>26 05 29 00-0020    12 Gauge, Steel Unistrut Channel</b> <small>(26 05 29 00-0019)</small>		
26 05 29 00-0021    EA    Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....	29.15	8.44
26 05 29 00-0022    EA    Up To 1' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....	28.52	8.44
26 05 29 00-0023    EA    Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....	28.11	8.44

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0024 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....	34.39	8.44
26 05 29 00-0025 EA >1' To 2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....	33.14	8.44
26 05 29 00-0026 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....	32.32	8.44
26 05 29 00-0027 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....	15.81	3.17
26 05 29 00-0028 LF >2' Length x 1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....	15.18	3.17
26 05 29 00-0029 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....	14.77	3.17
<b>26 05 29 00-0030 12 Gauge, 304 Stainless Steel Unistrut Channel</b> (26 05 29 00-0019)		
26 05 29 00-0031 EA Up To 1' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	57.43	8.44
26 05 29 00-0032 EA Up To 1' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	67.04	8.44
26 05 29 00-0033 EA >1' To 2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	90.96	8.44
26 05 29 00-0034 EA >1' To 2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	110.17	8.44
26 05 29 00-0035 LF >2' Length x 1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	44.09	3.17
26 05 29 00-0036 LF >2' Length x 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	53.70	3.17
<b>26 05 29 00-0037 Metal Framing Channel Fittings</b> (26 05 29 00-0001)		
<b>26 05 29 00-0038 Unistrut Channel Closure Strips And Caps</b> (26 05 29 00-0037)		
<b>26 05 29 00-0039 Steel Unistrut Channel Closure Strips And Caps</b> (26 05 29 00-0038)		
26 05 29 00-0040 LF Steel Raceway Closure Strip, Unistrut Channel Fittings .....	7.88	0.77
26 05 29 00-0041 EA Steel End Cap, Unistrut Channel Fittings .....	17.91	7.70
<b>26 05 29 00-0042 Stainless Steel Unistrut Channel Closure Strips And Caps</b> (26 05 29 00-0038)		
26 05 29 00-0043 EA Stainless Steel End Cap For Unistrut Channel .....	29.79	7.70
<b>26 05 29 00-0044 Flat Splice Plate, Unistrut Channel Fittings</b> (26 05 29 00-0037)		
<b>26 05 29 00-0045 Steel Flat Splice Plate, Unistrut Channel Fittings</b> (26 05 29 00-0044)		
26 05 29 00-0046 EA 2-Hole, 3-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting .....	7.93	
26 05 29 00-0047 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting .....	7.89	
26 05 29 00-0048 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, Steel, Unistrut Channel Fitting .....	9.52	
<b>26 05 29 00-0049 Stainless Steel Flat Splice Plate, Unistrut Channel Fittings</b> (26 05 29 00-0044)		
26 05 29 00-0050 EA 2-Hole, 3-1/2" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting .....	26.43	
26 05 29 00-0051 EA 3-Hole, 5-3/8" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting .....	39.50	
26 05 29 00-0052 EA 4-Hole, 7-1/4" Length, In-Line, Flat Splice Plate, 304 Stainless Steel, Unistrut Channel Fitting .....	50.56	
<b>26 05 29 00-0053 90 Degree Angle, Unistrut Channel Fittings</b> (26 05 29 00-0037)		
<b>26 05 29 00-0054 Steel 90 Degree Angle, Unistrut Channel Fittings</b> (26 05 29 00-0053)		
26 05 29 00-0055 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, Steel, Unistrut Channel Fitting .....	7.69	
26 05 29 00-0056 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, Steel, Unistrut Channel Fitting .....	6.49	
26 05 29 00-0057 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, Steel, Unistrut Channel Fitting .....	10.97	
26 05 29 00-0058 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, Steel, Unistrut Channel Fitting .....	10.82	
<b>26 05 29 00-0059 Stainless Steel 90 Degree Angle, Unistrut Channel Fittings</b> (26 05 29 00-0053)		
26 05 29 00-0060 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....	14.98	
26 05 29 00-0061 EA 2-Hole, 1-7/8" x 2", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....	18.82	
26 05 29 00-0062 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....	15.91	
26 05 29 00-0063 EA 2-Hole, 1-5/8" x 2-1/4", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....	22.74	
26 05 29 00-0064 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....	20.75	
26 05 29 00-0065 EA 3-Hole, 1-5/8" x 4-1/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....	38.59	
26 05 29 00-0066 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 304 Stainless Steel, Unistrut Channel Fitting .....	21.84	
26 05 29 00-0067 EA 3-Hole, 1-7/8" x 3-7/8", 90 Degree Angle, 316 Stainless Steel, Unistrut Channel Fitting .....	31.83	
<b>26 05 29 00-0068 60 Degree Angle, Unistrut Channel Fittings</b> (26 05 29 00-0037)		
<b>26 05 29 00-0069 Steel 60 Degree Angle, Unistrut Channel Fittings</b> (26 05 29 00-0068)		
26 05 29 00-0070 EA 2-Hole, 1-7/8" x 3-3/8", 60 Degree Angle, Steel, Unistrut Channel Fitting .....	15.55	
<b>26 05 29 00-0071 U-Connector, Unistrut Channel Fittings</b> (26 05 29 00-0037)		
<b>26 05 29 00-0072 Steel, U-Connector, Unistrut Channel Fittings</b> (26 05 29 00-0071)		
26 05 29 00-0073 EA 3-Hole, 1-5/8" x 13/16", U-Connector, Steel, Unistrut Channel Fitting .....	5.71	
26 05 29 00-0074 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, Steel, Unistrut Channel Fitting .....	6.33	
<b>26 05 29 00-0075 Stainless Steel, U-Connector, Unistrut Channel Fittings</b> (26 05 29 00-0071)		
26 05 29 00-0076 EA 5-Hole, 1-5/8" x 1-5/8", U-Connector, 304 Stainless Steel, Unistrut Channel Fitting .....	31.60	





	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0077		<b>Z-Bracket, Unistrut Channel Fittings</b> (26 05 29 00-0037)		
26 05 29 00-0078		<b>Steel Z-Bracket, Unistrut Channel Fittings</b> (26 05 29 00-0077)		
26 05 29 00-0079	EA	3-Hole, Z-Bracket, Steel, Unistrut Channel Fitting .....	15.95	
26 05 29 00-0080		<b>Stainless Steel Z-Bracket, Unistrut Channel Fittings</b> (26 05 29 00-0077)		
26 05 29 00-0081	EA	3-Hole, Z-Bracket, 304 Stainless Steel, Unistrut Channel Fitting.....	61.80	
26 05 29 00-0082		<b>Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b> (26 05 29 00-0037) Note: Includes hex screw and nut.		
26 05 29 00-0083		<b>Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b> (26 05 29 00-0082) Note: Includes hex screw and nut.		
26 05 29 00-0084	EA	1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.38	2.31
26 05 29 00-0085	EA	3/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.41	2.31
26 05 29 00-0086	EA	1" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	6.55	2.31
26 05 29 00-0087	EA	1-1/4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	8.28	3.08
26 05 29 00-0088	EA	1-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.00	3.08
26 05 29 00-0089	EA	2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	9.07	3.08
26 05 29 00-0090	EA	2-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.13	3.85
26 05 29 00-0091	EA	3" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.76	3.85
26 05 29 00-0092	EA	3-1/2" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.37	3.85
26 05 29 00-0093	EA	4" Diameter, Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.59	3.85
26 05 29 00-0094		<b>304 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b> (26 05 29 00-0082) Note: Includes hex screw and nut.		
26 05 29 00-0095	EA	1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	11.63	2.31
26 05 29 00-0096	EA	3/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	13.09	2.31
26 05 29 00-0097	EA	1" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.54	2.31
26 05 29 00-0098	EA	1-1/4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.00	3.08
26 05 29 00-0099	EA	1-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	22.05	3.08
26 05 29 00-0100	EA	2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	23.11	3.08
26 05 29 00-0101	EA	2-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	27.69	3.85
26 05 29 00-0102	EA	3" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	31.29	3.85
26 05 29 00-0103	EA	3-1/2" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	32.84	3.85
26 05 29 00-0104	EA	4" Diameter, 304 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	38.55	3.85
26 05 29 00-0105		<b>316 Stainless Steel, Standard Pipe And Rigid Conduit Clamps For Unistrut Channel</b> (26 05 29 00-0082) Note: Includes hex screw and nut.		
26 05 29 00-0106	EA	1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	12.52	2.31
26 05 29 00-0107	EA	3/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	14.58	2.31
26 05 29 00-0108	EA	1" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	15.16	2.31
26 05 29 00-0109	EA	1-1/4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	18.28	3.08
26 05 29 00-0110	EA	1-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	25.37	3.08
26 05 29 00-0111	EA	2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	25.72	3.08
26 05 29 00-0112	EA	2-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	30.42	3.85
26 05 29 00-0113	EA	3" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	32.25	3.85
26 05 29 00-0114	EA	3-1/2" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	45.30	3.85
26 05 29 00-0115	EA	4" Diameter, 316 Stainless Steel, Standard Pipe And Rigid Conduit Clamp For Unistrut Channel.....	53.27	3.85
26 05 29 00-0116		<b>Beam Clamps, Unistrut Channel Fittings</b> (26 05 29 00-0037)		
26 05 29 00-0117		<b>Steel Beam Clamps, Unistrut Channel Fittings</b> (26 05 29 00-0116)		
26 05 29 00-0118	EA	Set Screw Beam Clamp, Steel Unistrut Channel Fitting .....	46.62	14.06
26 05 29 00-0119	EA	"C" Beam Clamp Use With 1/2" Rod, Steel Unistrut Channel Fittings .....	32.38	14.06
26 05 29 00-0120	EA	"U" Bolt Beam Clamp, Steel Unistrut Channel Fitting .....	45.18	14.06
26 05 29 00-0121		<b>304 Stainless Steel Beam Clamps, Unistrut Channel Fittings</b> (26 05 29 00-0116)		
26 05 29 00-0122	EA	"U" Bolt Beam Clamp, 304 Stainless Steel Unistrut Channel Fitting.....	71.25	14.06
26 05 29 00-0123		<b>Square Washers For Unistrut Channel</b> (26 05 29 00-0037)		
26 05 29 00-0124		<b>Steel Square Washers For Unistrut Channel</b> (26 05 29 00-0123)		
26 05 29 00-0125	EA	1/2" Bolt Size, Steel, Square Washer For Unistrut Channel .....	5.64	
26 05 29 00-0126		<b>Stainless Steel Square Washers For Unistrut Channel</b> (26 05 29 00-0123)		
26 05 29 00-0127	EA	1/2" Bolt Size, 304 Stainless Steel, Square Washer For Unistrut Channel.....	7.32	
26 05 29 00-0128	EA	1/2" Bolt Size, 316 Stainless Steel, Square Washer For Unistrut Channel.....	9.30	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 29 00-0129 Strut Braces, Unistrut Channel Fittings</b> (26 05 29 00-0037)		
26 05 29 00-0130 EA 16" Diagonal Steel Bar Brace For Unistrut Channel .....	43.23	
<b>26 05 29 00-0131 Trolley Hangers, Unistrut Channel Fittings</b> (26 05 29 00-0037)		
26 05 29 00-0132 EA Steel Trolley Track Hanger For Unistrut Channel .....	53.84	
<b>26 05 29 00-0133 Lock Nuts With Spring For Unistrut Channel</b> (26 05 29 00-0037)		
Note: Includes hex bolt.		
<b>26 05 29 00-0134 Steel Lock Nuts With Spring For Unistrut Channel</b> (26 05 29 00-0133)		
Note: Includes hex bolt.		
26 05 29 00-0135 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel .....	10.15	
26 05 29 00-0136 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel .....	11.02	
26 05 29 00-0137 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel .....	11.68	
26 05 29 00-0138 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel .....	15.20	
<b>26 05 29 00-0139 Stainless Steel Lock Nuts With Spring For Unistrut Channel</b> (26 05 29 00-0133)		
Note: Includes hex bolt.		
26 05 29 00-0140 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel .....	19.57	
26 05 29 00-0141 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel .....	20.92	
26 05 29 00-0142 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel .....	30.25	
26 05 29 00-0143 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel .....	52.83	
<b>26 05 29 00-0144 Lock Nuts Without Spring For Unistrut Channel</b> (26 05 29 00-0037)		
Note: Includes hex bolt.		
<b>26 05 29 00-0145 Steel Lock Nuts Without Spring For Unistrut Channel</b> (26 05 29 00-0144)		
Note: Includes hex bolt.		
26 05 29 00-0146 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel .....	10.18	
26 05 29 00-0147 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel .....	11.14	
26 05 29 00-0148 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel .....	11.73	
26 05 29 00-0149 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel .....	16.21	
<b>26 05 29 00-0150 Stainless Steel Lock Nuts Without Spring For Unistrut Channel</b> (26 05 29 00-0144)		
Note: Includes hex bolt.		
26 05 29 00-0151 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	13.59	
26 05 29 00-0152 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	16.70	
26 05 29 00-0153 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	18.34	
26 05 29 00-0154 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel .....	51.42	
<b>26 05 29 00-0155 Mounting Assemblies</b> (26 05 29)		
<b>26 05 29 00-0156 Galvanized Steel Mounting Assemblies</b> (26 05 29 00-0155)		
<b>26 05 29 00-0157 Galvanized Steel Back Plate</b> (26 05 29 00-0156)		
26 05 29 00-0158 EA 1/4" x 4' x 4", Galvanized Steel Back Plate, Painted .....	595.37	92.29
26 05 29 00-0159 EA 3/8" x 14" x 16", Galvanized Steel Back Plate, Painted .....	148.59	30.76
26 05 29 00-0160 EA 3/16" x 30" x 48", Galvanized Steel Back Plate, Painted .....	375.99	76.91
<b>26 05 29 00-0161 Aluminum Mounting Assemblies</b> (26 05 29 00-0155)		
<b>26 05 29 00-0162 Aluminum Back Plate</b> (26 05 29 00-0161)		
26 05 29 00-0163 EA 3/16" x 2' x 2' Aluminum Back Plate .....	488.60	115.36
26 05 29 00-0164 EA 3/16" x 4' x 4' Aluminum Back Plate .....	1,337.64	115.36
<b>26 05 29 00-0165 Supports</b> (26 05 29)		
<b>26 05 29 00-0166 One Hole Steel Conduit Straps</b> (26 05 29 00-0165)		
26 05 29 00-0167 EA 1/2", One Hole Steel Conduit Strap .....	5.44	
For Work In Restricted Working Space, Add	1.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-1.02	
For >500, Deduct	-1.53	
26 05 29 00-0168 EA 3/4", One Hole Steel Conduit Strap .....	5.49	
For Work In Restricted Working Space, Add	1.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.26	
For >100 To 250, Deduct	-0.52	
For >250 To 500, Deduct	-1.03	
For >500, Deduct	-1.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0169 EA 1", One Hole Steel Conduit Strap .....5.74		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.53	
<i>For &gt;250 To 500, Deduct</i>	-1.05	
<i>For &gt;500, Deduct</i>	-1.56	
26 05 29 00-0170 EA 1-1/4", One Hole Steel Conduit Strap .....5.92		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.54	
<i>For &gt;250 To 500, Deduct</i>	-1.06	
<i>For &gt;500, Deduct</i>	-1.58	
26 05 29 00-0171 EA 1-1/2", One Hole Steel Conduit Strap .....6.04		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.55	
<i>For &gt;250 To 500, Deduct</i>	-1.07	
<i>For &gt;500, Deduct</i>	-1.59	
26 05 29 00-0172 EA 2", One Hole Steel Conduit Strap .....6.78		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.29	
<i>For &gt;100 To 250, Deduct</i>	-0.59	
<i>For &gt;250 To 500, Deduct</i>	-1.12	
<i>For &gt;500, Deduct</i>	-1.66	
26 05 29 00-0173 EA 2-1/2", One Hole Steel Conduit Strap .....7.54		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.31	
<i>For &gt;100 To 250, Deduct</i>	-0.62	
<i>For &gt;250 To 500, Deduct</i>	-1.18	
<i>For &gt;500, Deduct</i>	-1.74	
26 05 29 00-0174 EA 3", One Hole Steel Conduit Strap .....7.79		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.32	
<i>For &gt;100 To 250, Deduct</i>	-0.64	
<i>For &gt;250 To 500, Deduct</i>	-1.20	
<i>For &gt;500, Deduct</i>	-1.76	
26 05 29 00-0175 EA 3-1/2", One Hole Steel Conduit Strap .....9.03		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.35	
<i>For &gt;100 To 250, Deduct</i>	-0.70	
<i>For &gt;250 To 500, Deduct</i>	-1.29	
<i>For &gt;500, Deduct</i>	-1.89	
26 05 29 00-0176 EA 4", One Hole Steel Conduit Strap .....10.03		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.37	
<i>For &gt;100 To 250, Deduct</i>	-0.75	
<i>For &gt;250 To 500, Deduct</i>	-1.37	
<i>For &gt;500, Deduct</i>	-1.99	
<b>26 05 29 00-0177 One Hole Iron Conduit Straps (26 05 29 00-0165)</b>		
26 05 29 00-0178 EA 1/2", One Hole Iron Conduit Strap .....5.56		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.26	
<i>For &gt;100 To 250, Deduct</i>	-0.52	
<i>For &gt;250 To 500, Deduct</i>	-1.03	
<i>For &gt;500, Deduct</i>	-1.54	
26 05 29 00-0179 EA 3/4", One Hole Iron Conduit Strap .....5.68		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.53	
<i>For &gt;250 To 500, Deduct</i>	-1.04	
<i>For &gt;500, Deduct</i>	-1.55	
26 05 29 00-0180 EA 1", One Hole Iron Conduit Strap .....5.90		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.54	
<i>For &gt;250 To 500, Deduct</i>	-1.06	
<i>For &gt;500, Deduct</i>	-1.57	
26 05 29 00-0181 EA 1-1/4", One Hole Iron Conduit Strap .....6.41		
<i>For Work In Restricted Working Space, Add</i>	1.48	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
<i>For &gt;50 To 100, Deduct</i>	-0.28	
<i>For &gt;100 To 250, Deduct</i>	-0.57	
<i>For &gt;250 To 500, Deduct</i>	-1.10	
<i>For &gt;500, Deduct</i>	-1.63	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0182 EA 1-1/2", One Hole Iron Conduit Strap .....	6.62	
For Work In Restricted Working Space, Add	1.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.11	
For >500, Deduct	-1.65	
26 05 29 00-0183 EA 2", One Hole Iron Conduit Strap .....	7.93	
For Work In Restricted Working Space, Add	1.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.32	
For >100 To 250, Deduct	-0.64	
For >250 To 500, Deduct	-1.21	
For >500, Deduct	-1.78	
26 05 29 00-0184 EA 2-1/2", One Hole Iron Conduit Strap .....	10.75	
For Work In Restricted Working Space, Add	1.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.42	
For >500, Deduct	-2.06	
26 05 29 00-0185 EA 3", One Hole Iron Conduit Strap .....	13.10	
For Work In Restricted Working Space, Add	1.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.45	
For >100 To 250, Deduct	-0.90	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-2.29	
26 05 29 00-0186 EA 3-1/2", One Hole Iron Conduit Strap .....	16.53	
For Work In Restricted Working Space, Add	1.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.54	
For >100 To 250, Deduct	-1.07	
For >250 To 500, Deduct	-1.85	
For >500, Deduct	-2.64	
26 05 29 00-0187 EA 4", One Hole Iron Conduit Strap .....	30.27	
For Work In Restricted Working Space, Add	1.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-0.88	
For >100 To 250, Deduct	-1.76	
For >250 To 500, Deduct	-2.89	
For >500, Deduct	-4.01	
26 05 29 00-0188 EA 5", One Hole Iron Conduit Strap .....	37.66	
For Work In Restricted Working Space, Add	1.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.33	
For >50 To 100, Deduct	-1.06	
For >100 To 250, Deduct	-2.13	
For >250 To 500, Deduct	-3.44	
For >500, Deduct	-4.75	
<b>26 05 29 00-0189 Two Hole Steel Conduit Straps (26 05 29 00-0165)</b>		
26 05 29 00-0190 EA 1/2", Two Hole Steel Conduit Strap .....	6.30	
For Work In Restricted Working Space, Add	1.66	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.59	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-1.17	
For >500, Deduct	-1.74	
26 05 29 00-0191 EA 3/4", Two Hole Steel Conduit Strap .....	6.38	
For Work In Restricted Working Space, Add	1.66	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.59	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.17	
For >500, Deduct	-1.75	
26 05 29 00-0192 EA 1", Two Hole Steel Conduit Strap .....	6.42	
For Work In Restricted Working Space, Add	1.66	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.59	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.17	
For >500, Deduct	-1.75	
26 05 29 00-0193 EA 1-1/4", Two Hole Steel Conduit Strap .....	6.48	
For Work In Restricted Working Space, Add	1.66	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.59	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.18	
For >500, Deduct	-1.76	
26 05 29 00-0194 EA 1-1/2", Two Hole Steel Conduit Strap .....	6.52	
For Work In Restricted Working Space, Add	1.66	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.59	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.18	
For >500, Deduct	-1.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0195 EA 2", Two Hole Steel Conduit Strap ..... 6.62		
<i>For Work In Restricted Working Space, Add</i>	1.66	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.59	
<i>For &gt;50 To 100, Deduct</i>	-0.30	
<i>For &gt;100 To 250, Deduct</i>	-0.61	
<i>For &gt;250 To 500, Deduct</i>	-1.19	
<i>For &gt;500, Deduct</i>	-1.77	
26 05 29 00-0196 EA 2-1/2", Two Hole Steel Conduit Strap ..... 7.19		
<i>For Work In Restricted Working Space, Add</i>	1.66	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.59	
<i>For &gt;50 To 100, Deduct</i>	-0.32	
<i>For &gt;100 To 250, Deduct</i>	-0.64	
<i>For &gt;250 To 500, Deduct</i>	-1.23	
<i>For &gt;500, Deduct</i>	-1.83	
26 05 29 00-0197 EA 3", Two Hole Steel Conduit Strap ..... 7.31		
<i>For Work In Restricted Working Space, Add</i>	1.66	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.59	
<i>For &gt;50 To 100, Deduct</i>	-0.32	
<i>For &gt;100 To 250, Deduct</i>	-0.64	
<i>For &gt;250 To 500, Deduct</i>	-1.24	
<i>For &gt;500, Deduct</i>	-1.84	
26 05 29 00-0198 EA 3-1/2", Two Hole Steel Conduit Strap ..... 7.75		
<i>For Work In Restricted Working Space, Add</i>	1.66	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.59	
<i>For &gt;50 To 100, Deduct</i>	-0.33	
<i>For &gt;100 To 250, Deduct</i>	-0.66	
<i>For &gt;250 To 500, Deduct</i>	-1.27	
<i>For &gt;500, Deduct</i>	-1.88	
26 05 29 00-0199 EA 4", Two Hole Steel Conduit Strap ..... 8.06		
<i>For Work In Restricted Working Space, Add</i>	1.66	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.59	
<i>For &gt;50 To 100, Deduct</i>	-0.34	
<i>For &gt;100 To 250, Deduct</i>	-0.68	
<i>For &gt;250 To 500, Deduct</i>	-1.30	
<i>For &gt;500, Deduct</i>	-1.91	
26 05 29 00-0200 EA 5", Two Hole Steel Conduit Strap ..... 8.46		
<i>For Work In Restricted Working Space, Add</i>	1.66	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.59	
<i>For &gt;50 To 100, Deduct</i>	-0.35	
<i>For &gt;100 To 250, Deduct</i>	-0.70	
<i>For &gt;250 To 500, Deduct</i>	-1.33	
<i>For &gt;500, Deduct</i>	-1.95	
<b>26 05 29 00-0201 Clamp Back Spacers</b> <small>(26 05 29 00-0165)</small> ..... 4.98		
26 05 29 00-0202 EA 1/2" Conduit, Clamp Back Spacer ..... 4.98		
<i>For Work In Restricted Working Space, Add</i>	1.16	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
<i>For &gt;50 To 100, Deduct</i>	-0.22	
<i>For &gt;100 To 250, Deduct</i>	-0.44	
<i>For &gt;250 To 500, Deduct</i>	-0.85	
<i>For &gt;500, Deduct</i>	-1.27	
26 05 29 00-0203 EA 3/4" Conduit, Clamp Back Spacer ..... 5.36		
<i>For Work In Restricted Working Space, Add</i>	1.16	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
<i>For &gt;50 To 100, Deduct</i>	-0.23	
<i>For &gt;100 To 250, Deduct</i>	-0.46	
<i>For &gt;250 To 500, Deduct</i>	-0.88	
<i>For &gt;500, Deduct</i>	-1.31	
26 05 29 00-0204 EA 1" Conduit, Clamp Back Spacer ..... 5.72		
<i>For Work In Restricted Working Space, Add</i>	1.16	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
<i>For &gt;50 To 100, Deduct</i>	-0.24	
<i>For &gt;100 To 250, Deduct</i>	-0.48	
<i>For &gt;250 To 500, Deduct</i>	-0.91	
<i>For &gt;500, Deduct</i>	-1.34	
26 05 29 00-0205 EA 1-1/4" Conduit, Clamp Back Spacer ..... 7.10		
<i>For Work In Restricted Working Space, Add</i>	1.16	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.55	
<i>For &gt;250 To 500, Deduct</i>	-1.01	
<i>For &gt;500, Deduct</i>	-1.48	
26 05 29 00-0206 EA 1-1/2" Conduit, Clamp Back Spacer ..... 8.22		
<i>For Work In Restricted Working Space, Add</i>	1.16	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
<i>For &gt;50 To 100, Deduct</i>	-0.30	
<i>For &gt;100 To 250, Deduct</i>	-0.60	
<i>For &gt;250 To 500, Deduct</i>	-1.10	
<i>For &gt;500, Deduct</i>	-1.59	
26 05 29 00-0207 EA 2" Conduit, Clamp Back Spacer ..... 9.39		
<i>For Work In Restricted Working Space, Add</i>	1.16	
<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
<i>For &gt;50 To 100, Deduct</i>	-0.33	
<i>For &gt;100 To 250, Deduct</i>	-0.66	
<i>For &gt;250 To 500, Deduct</i>	-1.19	
<i>For &gt;500, Deduct</i>	-1.71	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0208	EA		2-1/2" Conduit, Clamp Back Spacer .....	14.15	
			<i>For Work In Restricted Working Space, Add</i>	1.16	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
			<i>For &gt;50 To 100, Deduct</i>	-0.45	
			<i>For &gt;100 To 250, Deduct</i>	-0.90	
			<i>For &gt;250 To 500, Deduct</i>	-1.54	
			<i>For &gt;500, Deduct</i>	-2.19	
26 05 29 00-0209	EA		3" Conduit, Clamp Back Spacer.....	19.83	
			<i>For Work In Restricted Working Space, Add</i>	1.16	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
			<i>For &gt;50 To 100, Deduct</i>	-0.59	
			<i>For &gt;100 To 250, Deduct</i>	-1.18	
			<i>For &gt;250 To 500, Deduct</i>	-1.97	
			<i>For &gt;500, Deduct</i>	-2.75	
26 05 29 00-0210	EA		3-1/2" Conduit, Clamp Back Spacer .....	25.35	
			<i>For Work In Restricted Working Space, Add</i>	1.16	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
			<i>For &gt;50 To 100, Deduct</i>	-0.73	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-3.31	
26 05 29 00-0211	EA		4" Conduit, Clamp Back Spacer.....	51.27	
			<i>For Work In Restricted Working Space, Add</i>	1.16	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
			<i>For &gt;50 To 100, Deduct</i>	-1.38	
			<i>For &gt;100 To 250, Deduct</i>	-2.76	
			<i>For &gt;250 To 500, Deduct</i>	-4.33	
			<i>For &gt;500, Deduct</i>	-5.90	
26 05 29 00-0212	EA		5" Conduit, Clamp Back Spacer.....	95.02	
			<i>For Work In Restricted Working Space, Add</i>	1.16	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.06	
			<i>For &gt;50 To 100, Deduct</i>	-2.47	
			<i>For &gt;100 To 250, Deduct</i>	-4.94	
			<i>For &gt;250 To 500, Deduct</i>	-7.61	
			<i>For &gt;500, Deduct</i>	-10.27	
26 05 29 00-0213			<b>Conduit Clips</b> <small>(26 05 29 00-0165)</small>		
			Note: Push in or clip.		
26 05 29 00-0214	EA		1/2" Conduit Clip.....	6.08	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
			<i>For &gt;50 To 100, Deduct</i>	-0.28	
			<i>For &gt;100 To 250, Deduct</i>	-0.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.07	
			<i>For &gt;500, Deduct</i>	-1.59	
26 05 29 00-0215	EA		3/4" Conduit Clip.....	6.08	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
			<i>For &gt;50 To 100, Deduct</i>	-0.28	
			<i>For &gt;100 To 250, Deduct</i>	-0.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.07	
			<i>For &gt;500, Deduct</i>	-1.59	
26 05 29 00-0216	EA		1" Conduit Clip.....	5.99	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
			<i>For &gt;50 To 100, Deduct</i>	-0.27	
			<i>For &gt;100 To 250, Deduct</i>	-0.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.06	
			<i>For &gt;500, Deduct</i>	-1.58	
26 05 29 00-0217	EA		1-1/4" Conduit Clip.....	6.21	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.33	
			<i>For &gt;50 To 100, Deduct</i>	-0.28	
			<i>For &gt;100 To 250, Deduct</i>	-0.56	
			<i>For &gt;250 To 500, Deduct</i>	-1.08	
			<i>For &gt;500, Deduct</i>	-1.61	
26 05 29 00-0218			<b>Bolt And Nut Conduit Clips</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0219	EA		3/4" Bolt And Nut Conduit Clip (Minerallac 1B).....	7.55	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.64	
			<i>For &gt;50 To 100, Deduct</i>	-0.34	
			<i>For &gt;100 To 250, Deduct</i>	-0.69	
			<i>For &gt;250 To 500, Deduct</i>	-1.34	
			<i>For &gt;500, Deduct</i>	-1.99	
26 05 29 00-0220	EA		1" Bolt And Nut Conduit Clip (Minerallac 2B).....	7.78	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.64	
			<i>For &gt;50 To 100, Deduct</i>	-0.35	
			<i>For &gt;100 To 250, Deduct</i>	-0.70	
			<i>For &gt;250 To 500, Deduct</i>	-1.35	
			<i>For &gt;500, Deduct</i>	-2.01	
26 05 29 00-0221	EA		1-1/4" Bolt And Nut Conduit Clip (Minerallac 2-1/2B).....	8.29	
			<i>For Installation On Concrete (Includes Drilling And Fastener), Add</i>	1.74	
			<i>For &gt;50 To 100, Deduct</i>	-0.37	
			<i>For &gt;100 To 250, Deduct</i>	-0.74	
			<i>For &gt;250 To 500, Deduct</i>	-1.44	
			<i>For &gt;500, Deduct</i>	-2.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0222 EA 1-1/2" Bolt And Nut Conduit Clip (Minerallac 3B).....	8.42	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.74	
For >50 To 100, Deduct	-0.37	
For >100 To 250, Deduct	-0.75	
For >250 To 500, Deduct	-1.45	
For >500, Deduct	-2.15	
26 05 29 00-0223 EA 2" Bolt And Nut Conduit Clip (Minerallac 5B).....	9.27	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.74	
For >50 To 100, Deduct	-0.40	
For >100 To 250, Deduct	-0.79	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-2.24	
26 05 29 00-0224 EA 2-1/2" Bolt And Nut Conduit Clip (Minerallac 6B).....	10.02	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.83	
For >50 To 100, Deduct	-0.42	
For >100 To 250, Deduct	-0.85	
For >250 To 500, Deduct	-1.62	
For >500, Deduct	-2.39	
26 05 29 00-0225 EA 3" Bolt And Nut Conduit Clip (Minerallac 7B).....	10.77	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.83	
For >50 To 100, Deduct	-0.44	
For >100 To 250, Deduct	-0.88	
For >250 To 500, Deduct	-1.67	
For >500, Deduct	-2.46	
26 05 29 00-0226 EA 4" Bolt And Nut Conduit Clip (Minerallac 9B).....	18.69	
For Installation On Concrete (Includes Drilling And Fastener), Add	2.02	
For >50 To 100, Deduct	-0.66	
For >100 To 250, Deduct	-1.32	
For >250 To 500, Deduct	-2.36	
For >500, Deduct	-3.41	
26 05 29 00-0227 Conduit Hanger From Flange, Wire Or Rod <small>(26 05 29 00-0165)</small>		
Note: Bat wing.		
26 05 29 00-0228 EA 1/2", Conduit Hanger From Flange, Wire Or Rod .....	4.42	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.79	
For >500, Deduct	-1.18	
26 05 29 00-0229 EA 3/4", Conduit Hanger From Flange, Wire Or Rod .....	4.48	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.41	
For >250 To 500, Deduct	-0.80	
For >500, Deduct	-1.19	
26 05 29 00-0230 EA 1", Conduit Hanger From Flange, Wire Or Rod .....	4.65	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.81	
For >500, Deduct	-1.21	
26 05 29 00-0231 EA 1-1/4", Conduit Hanger From Flange, Wire Or Rod .....	5.08	
For Installation On Concrete (Includes Drilling And Fastener), Add	1.03	
For >50 To 100, Deduct	-0.22	
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.84	
For >500, Deduct	-1.25	
26 05 29 00-0232 Beam Flange Clamps <small>(26 05 29 00-0165)</small>		
Note: For threaded rod, nut not required.		
26 05 29 00-0233 EA 1/8" To 1/4" Flange Thickness, Beam Clamp (Caddy 6TA24) .....	6.25	
For >50 To 100, Deduct	-0.25	
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-0.95	
For >500, Deduct	-1.40	
26 05 29 00-0234 EA 5/16" To 1/2" Flange Thickness, Beam Clamp (Caddy 6TA58) .....	6.14	
For >50 To 100, Deduct	-0.25	
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-0.94	
For >500, Deduct	-1.38	
26 05 29 00-0235 EA 9/16" To 3/4" Flange Thickness, Beam Clamp (Caddy 6TA912) .....	6.80	
For >50 To 100, Deduct	-0.27	
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.99	
For >500, Deduct	-1.45	
26 05 29 00-0236 T-Bar Support Clips <small>(26 05 29 00-0165)</small>		
26 05 29 00-0237 EA 9/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS95).....	10.60	
For >50 To 100, Deduct	-0.46	
For >100 To 250, Deduct	-0.91	
For >250 To 500, Deduct	-1.76	
For >500, Deduct	-2.60	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0238	EA		15/16" Grid Size, Independent T-Bar Support Clip (Caddy IDS).....	10.09	
			<i>For &gt;50 To 100, Deduct</i>	-0.44	
			<i>For &gt;100 To 250, Deduct</i>	-0.89	
			<i>For &gt;250 To 500, Deduct</i>	-1.72	
			<i>For &gt;500, Deduct</i>	-2.55	
26 05 29 00-0239	EA		15/16 Grid Size, Twist On T-Bar Support Clip (Caddy 4G16).....	3.70	
			<i>For &gt;50 To 100, Deduct</i>	-0.14	
			<i>For &gt;100 To 250, Deduct</i>	-0.28	
			<i>For &gt;250 To 500, Deduct</i>	-0.52	
			<i>For &gt;500, Deduct</i>	-0.75	
26 05 29 00-0240	EA		24" Long Snap On T-Bar Electrical Box Hanger (Caddy 512).....	28.73	
			<i>For &gt;50 To 100, Deduct</i>	-0.80	
			<i>For &gt;100 To 250, Deduct</i>	-1.59	
			<i>For &gt;250 To 500, Deduct</i>	-2.54	
			<i>For &gt;500, Deduct</i>	-3.49	
<b>26 05 29 00-0241</b>			<b>Switch And Outlet Box Type Supports</b> (26 05 29 00-0165)		
26 05 29 00-0242	EA		1/4" To 3/4" Drywall Thickness, Adjustable Switch And Outlet Box Support (Caddy MFS) .....	7.46	
			<i>For &gt;50 To 100, Deduct</i>	-0.26	
			<i>For &gt;100 To 250, Deduct</i>	-0.53	
			<i>For &gt;250 To 500, Deduct</i>	-0.94	
			<i>For &gt;500, Deduct</i>	-1.36	
26 05 29 00-0243	EA		1/2" Drywall Thickness, Riveted Switch And Outlet Box Support (Caddy MF500).....	6.38	
			<i>For &gt;50 To 100, Deduct</i>	-0.24	
			<i>For &gt;100 To 250, Deduct</i>	-0.47	
			<i>For &gt;250 To 500, Deduct</i>	-0.86	
			<i>For &gt;500, Deduct</i>	-1.25	
26 05 29 00-0244	EA		Flush, Riveted Switch And Outlet Box Support (Caddy MFO) .....	7.31	
			<i>For &gt;50 To 100, Deduct</i>	-0.26	
			<i>For &gt;100 To 250, Deduct</i>	-0.52	
			<i>For &gt;250 To 500, Deduct</i>	-0.93	
			<i>For &gt;500, Deduct</i>	-1.35	
26 05 29 00-0245	EA		Snap On, Switch And Outlet Box Support (Caddy MSF) .....	4.84	
			<i>For &gt;50 To 100, Deduct</i>	-0.20	
			<i>For &gt;100 To 250, Deduct</i>	-0.40	
			<i>For &gt;250 To 500, Deduct</i>	-0.75	
			<i>For &gt;500, Deduct</i>	-1.10	
26 05 29 00-0246	EA		1/4-20 Thread Impression, Switch And Outlet Box Support (Caddy MFI).....	5.04	
			<i>For &gt;50 To 100, Deduct</i>	-0.20	
			<i>For &gt;100 To 250, Deduct</i>	-0.41	
			<i>For &gt;250 To 500, Deduct</i>	-0.76	
			<i>For &gt;500, Deduct</i>	-1.12	
<b>26 05 29 00-0247</b>			<b>Lighting Fixture Hanger</b> (26 05 29 00-0165)		
			Note: For existing or owner furnished fixtures.		
26 05 29 00-0248	EA		Lay-In/Troffer, Straight Lip Type Fixture Support Clip (Caddy 515) .....	7.20	
			<i>For &gt;50 To 100, Deduct</i>	-0.33	
			<i>For &gt;100 To 250, Deduct</i>	-0.67	
			<i>For &gt;250 To 500, Deduct</i>	-1.31	
			<i>For &gt;500, Deduct</i>	-1.95	
26 05 29 00-0249	PR		Support Bars For Recessed "High Hat" Light Fixtures (Caddy 517) .....	23.21	
			<i>For &gt;50 To 100, Deduct</i>	-0.73	
			<i>For &gt;100 To 250, Deduct</i>	-1.47	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.55	
26 05 29 00-0250	PR		Support Bars For Recessed "Lightolier" Light Fixtures (Caddy 520) .....	31.62	
			<i>For &gt;50 To 100, Deduct</i>	-0.94	
			<i>For &gt;100 To 250, Deduct</i>	-1.89	
			<i>For &gt;250 To 500, Deduct</i>	-3.14	
			<i>For &gt;500, Deduct</i>	-4.39	
<b>26 05 29 00-0251</b>			<b>Rigid Steel Conduit Clamps For Unistrut Channel</b> (26 05 29 00-0165)		
26 05 29 00-0252	EA		1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	6.38	
			<i>For &gt;50 To 100, Deduct</i>	-0.28	
			<i>For &gt;100 To 250, Deduct</i>	-0.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.06	
			<i>For &gt;500, Deduct</i>	-1.56	
			<i>For Work In Restricted Working Space, Add</i>	1.39	
26 05 29 00-0253	EA		3/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	6.41	
			<i>For &gt;50 To 100, Deduct</i>	-0.28	
			<i>For &gt;100 To 250, Deduct</i>	-0.55	
			<i>For &gt;250 To 500, Deduct</i>	-1.06	
			<i>For &gt;500, Deduct</i>	-1.57	
			<i>For Work In Restricted Working Space, Add</i>	1.39	
26 05 29 00-0254	EA		1" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel .....	6.55	
			<i>For &gt;50 To 100, Deduct</i>	-0.28	
			<i>For &gt;100 To 250, Deduct</i>	-0.56	
			<i>For &gt;250 To 500, Deduct</i>	-1.07	
			<i>For &gt;500, Deduct</i>	-1.58	
			<i>For Work In Restricted Working Space, Add</i>	1.39	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0255 EA 1-1/4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	8.27	
<i>For &gt;50 To 100, Deduct</i>	-0.36	
<i>For &gt;100 To 250, Deduct</i>	-0.72	
<i>For &gt;250 To 500, Deduct</i>	-1.39	
<i>For &gt;500, Deduct</i>	-2.06	
<i>For Work In Restricted Working Space, Add</i>	1.85	
26 05 29 00-0256 EA 1-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	8.99	
<i>For &gt;50 To 100, Deduct</i>	-0.38	
<i>For &gt;100 To 250, Deduct</i>	-0.76	
<i>For &gt;250 To 500, Deduct</i>	-1.44	
<i>For &gt;500, Deduct</i>	-2.13	
<i>For Work In Restricted Working Space, Add</i>	1.85	
26 05 29 00-0257 EA 2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	9.06	
<i>For &gt;50 To 100, Deduct</i>	-0.38	
<i>For &gt;100 To 250, Deduct</i>	-0.76	
<i>For &gt;250 To 500, Deduct</i>	-1.45	
<i>For &gt;500, Deduct</i>	-2.14	
<i>For Work In Restricted Working Space, Add</i>	1.85	
26 05 29 00-0258 EA 2-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	11.12	
<i>For &gt;50 To 100, Deduct</i>	-0.47	
<i>For &gt;100 To 250, Deduct</i>	-0.94	
<i>For &gt;250 To 500, Deduct</i>	-1.80	
<i>For &gt;500, Deduct</i>	-2.65	
<i>For Work In Restricted Working Space, Add</i>	2.31	
26 05 29 00-0259 EA 3" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	11.75	
<i>For &gt;50 To 100, Deduct</i>	-0.49	
<i>For &gt;100 To 250, Deduct</i>	-0.97	
<i>For &gt;250 To 500, Deduct</i>	-1.84	
<i>For &gt;500, Deduct</i>	-2.71	
<i>For Work In Restricted Working Space, Add</i>	2.31	
26 05 29 00-0260 EA 3-1/2" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	12.36	
<i>For &gt;50 To 100, Deduct</i>	-0.50	
<i>For &gt;100 To 250, Deduct</i>	-1.00	
<i>For &gt;250 To 500, Deduct</i>	-1.89	
<i>For &gt;500, Deduct</i>	-2.77	
<i>For Work In Restricted Working Space, Add</i>	2.31	
26 05 29 00-0261 EA 4" Diameter, Rigid Steel Conduit Clamp For Unistrut Channel.....	12.58	
<i>For &gt;50 To 100, Deduct</i>	-0.51	
<i>For &gt;100 To 250, Deduct</i>	-1.01	
<i>For &gt;250 To 500, Deduct</i>	-1.90	
<i>For &gt;500, Deduct</i>	-2.80	
<i>For Work In Restricted Working Space, Add</i>	2.31	
<b>26 05 29 00-0262 Electrical Metallic Tubing (EMT) Conduit Clamps For Unistrut Channel</b> <sub>(26 05 29 00-0165)</sub>		
26 05 29 00-0263 EA 1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.85	
<i>For &gt;50 To 100, Deduct</i>	-0.29	
<i>For &gt;100 To 250, Deduct</i>	-0.57	
<i>For &gt;250 To 500, Deduct</i>	-1.09	
<i>For &gt;500, Deduct</i>	-1.61	
<i>For Work In Restricted Working Space, Add</i>	1.39	
26 05 29 00-0264 EA 3/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.79	
<i>For &gt;50 To 100, Deduct</i>	-0.29	
<i>For &gt;100 To 250, Deduct</i>	-0.57	
<i>For &gt;250 To 500, Deduct</i>	-1.09	
<i>For &gt;500, Deduct</i>	-1.60	
<i>For Work In Restricted Working Space, Add</i>	1.39	
26 05 29 00-0265 EA 1" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	6.72	
<i>For &gt;50 To 100, Deduct</i>	-0.28	
<i>For &gt;100 To 250, Deduct</i>	-0.57	
<i>For &gt;250 To 500, Deduct</i>	-1.08	
<i>For &gt;500, Deduct</i>	-1.60	
<i>For Work In Restricted Working Space, Add</i>	1.39	
26 05 29 00-0266 EA 1-1/4" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	8.84	
<i>For &gt;50 To 100, Deduct</i>	-0.37	
<i>For &gt;100 To 250, Deduct</i>	-0.75	
<i>For &gt;250 To 500, Deduct</i>	-1.43	
<i>For &gt;500, Deduct</i>	-2.11	
<i>For Work In Restricted Working Space, Add</i>	1.85	
26 05 29 00-0267 EA 1-1/2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	10.09	
<i>For &gt;50 To 100, Deduct</i>	-0.41	
<i>For &gt;100 To 250, Deduct</i>	-0.81	
<i>For &gt;250 To 500, Deduct</i>	-1.53	
<i>For &gt;500, Deduct</i>	-2.24	
<i>For Work In Restricted Working Space, Add</i>	1.85	
26 05 29 00-0268 EA 2" Diameter, Electrical Metallic Tubing (EMT) Conduit Clamp For Unistrut Channel.....	10.16	
<i>For &gt;50 To 100, Deduct</i>	-0.41	
<i>For &gt;100 To 250, Deduct</i>	-0.82	
<i>For &gt;250 To 500, Deduct</i>	-1.53	
<i>For &gt;500, Deduct</i>	-2.25	
<i>For Work In Restricted Working Space, Add</i>	1.85	

26 05 29 00-0269 "J" Type Conduit Hangers <sub>(26 05 29 00-0165)</sub>

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0270 EA 1/2", "J" Type Conduit Hanger (Unistrut J1205).....	28.42	
For >50 To 100, Deduct	-0.98	
For >100 To 250, Deduct	-1.96	
For >250 To 500, Deduct	-3.48	
For >500, Deduct	-5.00	
For Work In Restricted Working Space, Add	3.23	
26 05 29 00-0271 EA 3/4", "J" Type Conduit Hanger (Unistrut J1207).....	28.73	
For >50 To 100, Deduct	-0.99	
For >100 To 250, Deduct	-1.98	
For >250 To 500, Deduct	-3.50	
For >500, Deduct	-5.03	
For Work In Restricted Working Space, Add	3.23	
26 05 29 00-0272 EA 1", "J" Type Conduit Hanger (Unistrut J1210).....	30.55	
For >50 To 100, Deduct	-1.07	
For >100 To 250, Deduct	-2.14	
For >250 To 500, Deduct	-3.83	
For >500, Deduct	-5.52	
For Work In Restricted Working Space, Add	3.69	
26 05 29 00-0273 EA 1-1/4", "J" Type Conduit Hanger (Unistrut J1212).....	30.88	
For >50 To 100, Deduct	-1.08	
For >100 To 250, Deduct	-2.16	
For >250 To 500, Deduct	-3.85	
For >500, Deduct	-5.55	
For Work In Restricted Working Space, Add	3.69	
26 05 29 00-0274 EA 1-1/2", "J" Type Conduit Hanger (Unistrut J1215).....	32.64	
For >50 To 100, Deduct	-1.16	
For >100 To 250, Deduct	-2.32	
For >250 To 500, Deduct	-4.18	
For >500, Deduct	-6.03	
For Work In Restricted Working Space, Add	4.15	
26 05 29 00-0275 EA 2", "J" Type Conduit Hanger (Unistrut J1220).....	33.89	
For >50 To 100, Deduct	-1.19	
For >100 To 250, Deduct	-2.39	
For >250 To 500, Deduct	-4.27	
For >500, Deduct	-6.16	
For Work In Restricted Working Space, Add	4.15	
26 05 29 00-0276 EA 2-1/2", "J" Type Conduit Hanger (Unistrut J1225).....	53.36	
For >50 To 100, Deduct	-1.72	
For >100 To 250, Deduct	-3.44	
For >250 To 500, Deduct	-5.93	
For >500, Deduct	-8.41	
For Work In Restricted Working Space, Add	4.62	
26 05 29 00-0277 EA 3", "J" Type Conduit Hanger (Unistrut J1230).....	56.78	
For >50 To 100, Deduct	-1.84	
For >100 To 250, Deduct	-3.69	
For >250 To 500, Deduct	-6.37	
For >500, Deduct	-9.06	
For Work In Restricted Working Space, Add	5.08	
26 05 29 00-0278 EA 3-1/2", "J" Type Conduit Hanger (Unistrut J1235).....	61.16	
For >50 To 100, Deduct	-1.99	
For >100 To 250, Deduct	-3.98	
For >250 To 500, Deduct	-6.89	
For >500, Deduct	-9.81	
For Work In Restricted Working Space, Add	5.54	
26 05 29 00-0279 EA 4", "J" Type Conduit Hanger (Unistrut J1240).....	80.60	
For >50 To 100, Deduct	-2.48	
For >100 To 250, Deduct	-4.95	
For >250 To 500, Deduct	-8.35	
For >500, Deduct	-11.75	
For Work In Restricted Working Space, Add	5.54	
26 05 29 00-0280 EA 5", "J" Type Conduit Hanger (Unistrut J1250).....	88.51	
For >50 To 100, Deduct	-2.71	
For >100 To 250, Deduct	-5.43	
For >250 To 500, Deduct	-9.14	
For >500, Deduct	-12.85	
For Work In Restricted Working Space, Add	6.00	
26 05 29 00-0281 EA 6", "J" Type Conduit Hanger (Unistrut J1260).....	124.17	
For >50 To 100, Deduct	-3.68	
For >100 To 250, Deduct	-7.36	
For >250 To 500, Deduct	-12.20	
For >500, Deduct	-17.03	
For Work In Restricted Working Space, Add	6.92	

**26 05 29 00-0282 Between Studs Box Brackets** (26 05 29 00-0165)

26 05 29 00-0283 EA 16" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB16A) .....	10.34	
For >50 To 100, Deduct	-0.37	
For >100 To 250, Deduct	-0.75	
For >250 To 500, Deduct	-1.35	
For >500, Deduct	-1.96	
For Work In Restricted Working Space, Add	1.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0284 EA 24" Stud Spacing, 1-1/2" Or 2-1/8" Box Depth, Screw Gun Between Studs Box Bracket (Caddy SGB24A) .....	12.32	
<i>For &gt;50 To 100, Deduct</i>	-0.42	
<i>For &gt;100 To 250, Deduct</i>	-0.85	
<i>For &gt;250 To 500, Deduct</i>	-1.50	
<i>For &gt;500, Deduct</i>	-2.16	
<i>For Work In Restricted Working Space, Add</i>	1.39	
<b>26 05 29 00-0285 Hangers And Brackets</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0286 EA Rod Hangers Only With 1/4" Thread Impression (Caddy 4TI) .....	3.83	
<i>For &gt;50 To 100, Deduct</i>	-0.17	
<i>For &gt;100 To 250, Deduct</i>	-0.35	
<i>For &gt;250 To 500, Deduct</i>	-0.67	
<i>For &gt;500, Deduct</i>	-1.00	
26 05 29 00-0287 EA Angle Bracket Only With 1/4" Hole (Caddy AB) .....	3.72	
<i>For &gt;50 To 100, Deduct</i>	-0.17	
<i>For &gt;100 To 250, Deduct</i>	-0.34	
<i>For &gt;250 To 500, Deduct</i>	-0.66	
<i>For &gt;500, Deduct</i>	-0.99	
26 05 29 00-0288 EA Offset Bracket Only With 1/4" Hole (Caddy AO) .....	3.72	
<i>For &gt;50 To 100, Deduct</i>	-0.17	
<i>For &gt;100 To 250, Deduct</i>	-0.34	
<i>For &gt;250 To 500, Deduct</i>	-0.66	
<i>For &gt;500, Deduct</i>	-0.99	
26 05 29 00-0289 EA Angle Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIB) .....	4.91	
<i>For &gt;50 To 100, Deduct</i>	-0.20	
<i>For &gt;100 To 250, Deduct</i>	-0.40	
<i>For &gt;250 To 500, Deduct</i>	-0.75	
<i>For &gt;500, Deduct</i>	-1.11	
26 05 29 00-0290 EA Angle Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIB) .....	4.93	
<i>For &gt;50 To 100, Deduct</i>	-0.20	
<i>For &gt;100 To 250, Deduct</i>	-0.40	
<i>For &gt;250 To 500, Deduct</i>	-0.75	
<i>For &gt;500, Deduct</i>	-1.11	
26 05 29 00-0291 EA Angle Bracket Mount, 1/4" Or 3/8" Threaded Rod Hanger With Nut (Caddy 6TB) .....	4.80	
<i>For &gt;50 To 100, Deduct</i>	-0.20	
<i>For &gt;100 To 250, Deduct</i>	-0.39	
<i>For &gt;250 To 500, Deduct</i>	-0.75	
<i>For &gt;500, Deduct</i>	-1.10	
26 05 29 00-0292 EA Offset Bracket Mount, 1/4" Threaded Rod Hanger With Thread Impression (Caddy 4TIO) .....	4.91	
<i>For &gt;50 To 100, Deduct</i>	-0.20	
<i>For &gt;100 To 250, Deduct</i>	-0.40	
<i>For &gt;250 To 500, Deduct</i>	-0.75	
<i>For &gt;500, Deduct</i>	-1.11	
26 05 29 00-0293 EA Offset Bracket Mount, 3/8" Threaded Rod Hanger With Thread Impression (Caddy 6TIO) .....	4.93	
<i>For &gt;50 To 100, Deduct</i>	-0.20	
<i>For &gt;100 To 250, Deduct</i>	-0.40	
<i>For &gt;250 To 500, Deduct</i>	-0.75	
<i>For &gt;500, Deduct</i>	-1.11	
<b>26 05 29 00-0294 Clips And Accessories</b> <small>(26 05 29 00-0165)</small>		
26 05 29 00-0295 EA 1/2" Diameter Center, Bridle Ring (Caddy 2BR) .....	2.58	
<i>For &gt;50 To 100, Deduct</i>	-0.11	
<i>For &gt;100 To 250, Deduct</i>	-0.23	
<i>For &gt;250 To 500, Deduct</i>	-0.43	
<i>For &gt;500, Deduct</i>	-0.64	
26 05 29 00-0296 EA 3/4" Diameter Center, Bridle Ring (Caddy 2BR12) .....	2.62	
<i>For &gt;50 To 100, Deduct</i>	-0.11	
<i>For &gt;100 To 250, Deduct</i>	-0.23	
<i>For &gt;250 To 500, Deduct</i>	-0.44	
<i>For &gt;500, Deduct</i>	-0.65	
26 05 29 00-0297 EA 1-1/4" Diameter Center, Bridle Ring (Caddy 2BR20) .....	2.80	
<i>For &gt;50 To 100, Deduct</i>	-0.12	
<i>For &gt;100 To 250, Deduct</i>	-0.24	
<i>For &gt;250 To 500, Deduct</i>	-0.45	
<i>For &gt;500, Deduct</i>	-0.66	
26 05 29 00-0298 EA 2" Diameter Center, Bridle Ring (Caddy 2BR32) .....	3.17	
<i>For &gt;50 To 100, Deduct</i>	-0.13	
<i>For &gt;100 To 250, Deduct</i>	-0.25	
<i>For &gt;250 To 500, Deduct</i>	-0.48	
<i>For &gt;500, Deduct</i>	-0.70	
<b>26 05 29 00-0299 Wire Ties</b> <small>(26 05 29 00-0165)</small>		
Note: Per hundred (C).		
26 05 29 00-0300 C 3" Length, 18 LB Tensile Strength, Nylon Cable Ties .....	37.77	
<i>For Up To 0.1, Add</i>	32.09	
<i>For &gt;0.1 To 0.25, Add</i>	16.05	
<i>For &gt;0.25 To 0.75, Add</i>	8.02	
<i>For &gt;2.0, Deduct</i>	-3.21	
<i>For UV Black, Add</i>	0.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.63	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 29 Hangers and Supports for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0301 C 4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	37.99	
For Up To 0.1, Add	32.09	
For >0.1 To 0.25, Add	16.05	
For >0.25 To 0.75, Add	8.02	
For >2.0, Deduct	-3.21	
For UV Black, Add	0.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.63	
26 05 29 00-0302 C 4-3/4" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	38.14	
For Up To 0.1, Add	32.09	
For >0.1 To 0.25, Add	16.05	
For >0.25 To 0.75, Add	8.02	
For >2.0, Deduct	-3.21	
For UV Black, Add	0.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.63	
26 05 29 00-0303 C 5-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	38.21	
For Up To 0.1, Add	32.09	
For >0.1 To 0.25, Add	16.05	
For >0.25 To 0.75, Add	8.02	
For >2.0, Deduct	-3.21	
For UV Black, Add	0.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.63	
26 05 29 00-0304 C 6-1/2" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	39.67	
For Up To 0.1, Add	33.48	
For >0.1 To 0.25, Add	16.74	
For >0.25 To 0.75, Add	8.37	
For >2.0, Deduct	-3.35	
For UV Black, Add	0.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 29 00-0305 C 8" Length, 18 LB Tensile Strength, Nylon Cable Ties.....	45.99	
For Up To 0.1, Add	35.01	
For >0.1 To 0.25, Add	17.51	
For >0.25 To 0.75, Add	8.75	
For >2.0, Deduct	-3.50	
For UV Black, Add	1.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 29 00-0306 C 4-3/4" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	43.87	
For Up To 0.1, Add	32.09	
For >0.1 To 0.25, Add	16.05	
For >0.25 To 0.75, Add	8.02	
For >2.0, Deduct	-3.21	
For UV Black, Add	1.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.63	
26 05 29 00-0307 C 6" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	45.34	
For Up To 0.1, Add	33.48	
For >0.1 To 0.25, Add	16.74	
For >0.25 To 0.75, Add	8.37	
For >2.0, Deduct	-3.35	
For UV Black, Add	1.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.04	
26 05 29 00-0308 C 8" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	46.94	
For Up To 0.1, Add	35.01	
For >0.1 To 0.25, Add	17.51	
For >0.25 To 0.75, Add	8.75	
For >2.0, Deduct	-3.50	
For UV Black, Add	1.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 29 00-0309 C 10" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	65.26	
For Up To 0.1, Add	37.75	
For >0.1 To 0.25, Add	18.88	
For >0.25 To 0.75, Add	9.44	
For >2.0, Deduct	-3.78	
For UV Black, Add	4.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.33	
26 05 29 00-0310 C 11-1/2" Length, 40 LB Tensile Strength, Nylon Cable Ties.....	67.75	
For Up To 0.1, Add	37.75	
For >0.1 To 0.25, Add	18.88	
For >0.25 To 0.75, Add	9.44	
For >2.0, Deduct	-3.78	
For UV Black, Add	4.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.33	
26 05 29 00-0311 C 7" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	48.68	
For Up To 0.1, Add	35.01	
For >0.1 To 0.25, Add	17.51	
For >0.25 To 0.75, Add	8.75	
For >2.0, Deduct	-3.50	
For UV Black, Add	2.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 29 00-0312 C 8" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	46.48	
For Up To 0.1, Add	35.01	
For >0.1 To 0.25, Add	17.51	
For >0.25 To 0.75, Add	8.75	
For >2.0, Deduct	-3.50	
For UV Black, Add	1.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0313 C 11" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	65.95	
For Up To 0.1, Add	37.75	
For >0.1 To 0.25, Add	18.88	
For >0.25 To 0.75, Add	9.44	
For >2.0, Deduct	-3.78	
For UV Black, Add	4.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.33	
26 05 29 00-0314 C 14-1/2" Length, 50 LB Tensile Strength, Nylon Cable Ties.....	74.78	
For Up To 0.1, Add	40.11	
For >0.1 To 0.25, Add	20.06	
For >0.25 To 0.75, Add	10.03	
For >2.0, Deduct	-4.01	
For UV Black, Add	5.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.03	
26 05 29 00-0315 C 8" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	72.21	
For Up To 0.1, Add	35.01	
For >0.1 To 0.25, Add	17.51	
For >0.25 To 0.75, Add	8.75	
For >2.0, Deduct	-3.50	
For UV Black, Add	5.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.50	
26 05 29 00-0316 C 11" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	78.93	
For Up To 0.1, Add	37.75	
For >0.1 To 0.25, Add	18.88	
For >0.25 To 0.75, Add	9.44	
For >2.0, Deduct	-3.78	
For UV Black, Add	6.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.33	
26 05 29 00-0317 C 15" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	94.28	
For Up To 0.1, Add	40.11	
For >0.1 To 0.25, Add	20.06	
For >0.25 To 0.75, Add	10.03	
For >2.0, Deduct	-4.01	
For UV Black, Add	8.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.03	
26 05 29 00-0318 C 17" Length, 120 LB Tensile Strength, Nylon Cable Ties.....	131.53	
For Up To 0.1, Add	42.78	
For >0.1 To 0.25, Add	21.39	
For >0.25 To 0.75, Add	10.70	
For >2.0, Deduct	-4.28	
For UV Black, Add	13.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.83	
26 05 29 00-0319 C 17-3/4" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	127.74	
For Up To 0.1, Add	42.78	
For >0.1 To 0.25, Add	21.39	
For >0.25 To 0.75, Add	10.70	
For >2.0, Deduct	-4.28	
For UV Black, Add	12.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.83	
26 05 29 00-0320 C 21-11/16" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	153.95	
For Up To 0.1, Add	44.78	
For >0.1 To 0.25, Add	22.39	
For >0.25 To 0.75, Add	11.20	
For >2.0, Deduct	-4.48	
For UV Black, Add	16.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.43	
26 05 29 00-0321 C 30" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	177.09	
For Up To 0.1, Add	46.96	
For >0.1 To 0.25, Add	23.48	
For >0.25 To 0.75, Add	11.74	
For >2.0, Deduct	-4.70	
For UV Black, Add	19.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.09	
26 05 29 00-0322 C 46" Length, 175 LB Tensile Strength, Nylon Cable Ties.....	239.73	
For Up To 0.1, Add	50.66	
For >0.1 To 0.25, Add	25.33	
For >0.25 To 0.75, Add	12.67	
For >2.0, Deduct	-5.07	
For UV Black, Add	28.36	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.20	
26 05 29 00-0323 C 3/4" x 3/4" Self Adhesive Tie Mounts.....	50.91	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.44	
26 05 29 00-0324 C 1.1" x 1.1" Tie Mounts With Screw.....	101.10	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.88	
26 05 29 00-0325 EA 6" Length x 1/2" Width, Velcro Grip Cable Tie.....	2.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.23	
26 05 29 00-0326 EA 8" Length x 1/2" Width, Velcro Grip Cable Tie.....	2.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.19	
26 05 29 00-0327 EA 12" Length x 1/2" Width, Velcro Grip Cable Tie.....	3.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.19	
26 05 29 00-0328 EA 15" Length x 3/4" Width, Velcro Grip Cable Tie.....	4.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	0.19	
26 05 29 00-0329 EA 180" Length x 3/4" Width, Velcro Grip Cable Tie Roll.....	107.27	
Note: Cut to length.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.44	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 29 00-0330 Fastening Devices For Wireway And Conduit</b> <small>(26 05 29)</small> Note: Includes drilling of holes with power tools in concrete, brick, concrete block, wood, tile or steel and alignment of hangers and supports for bolts.		
<b>26 05 29 00-0331 Toggle Bolts</b> <small>(26 05 29 00-0330)</small> Note: Includes machine screw, toggle wing and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0332 EA 1/8" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	11.86	
For >50 To 100, Deduct	-1.14	
For >100 To 250, Deduct	-2.28	
For >250 To 500, Deduct	-3.98	
For >500, Deduct	-5.68	
26 05 29 00-0333 EA 1/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	12.18	
For >50 To 100, Deduct	-1.17	
For >100 To 250, Deduct	-2.34	
For >250 To 500, Deduct	-4.08	
For >500, Deduct	-5.83	
26 05 29 00-0334 EA 3/16" Diameter, 3" Length, Zinc Plated Steel, Toggle Bolt.....	12.79	
For >50 To 100, Deduct	-1.20	
For >100 To 250, Deduct	-2.41	
For >250 To 500, Deduct	-4.20	
For >500, Deduct	-6.00	
26 05 29 00-0335 EA 3/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	13.11	
For >50 To 100, Deduct	-1.23	
For >100 To 250, Deduct	-2.47	
For >250 To 500, Deduct	-4.31	
For >500, Deduct	-6.14	
26 05 29 00-0336 EA 1/4" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	13.41	
For >50 To 100, Deduct	-1.26	
For >100 To 250, Deduct	-2.52	
For >250 To 500, Deduct	-4.40	
For >500, Deduct	-6.29	
26 05 29 00-0337 EA 5/16" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	15.02	
For >50 To 100, Deduct	-1.32	
For >100 To 250, Deduct	-2.65	
For >250 To 500, Deduct	-4.61	
For >500, Deduct	-6.56	
26 05 29 00-0338 EA 3/8" Diameter, 4" Length, Zinc Plated Steel, Toggle Bolt.....	15.60	
For >50 To 100, Deduct	-1.36	
For >100 To 250, Deduct	-2.72	
For >250 To 500, Deduct	-4.73	
For >500, Deduct	-6.73	
<b>26 05 29 00-0339 Machine Screws</b> <small>(26 05 29 00-0330)</small> Note: Includes drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0340 EA #8 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.51	
For >50 To 100, Deduct	-0.34	
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.20	
For >500, Deduct	-1.72	
26 05 29 00-0341 EA #10 Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	3.56	
For >50 To 100, Deduct	-0.34	
For >100 To 250, Deduct	-0.69	
For >250 To 500, Deduct	-1.20	
For >500, Deduct	-1.72	
26 05 29 00-0342 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	4.47	
For >50 To 100, Deduct	-0.43	
For >100 To 250, Deduct	-0.87	
For >250 To 500, Deduct	-1.51	
For >500, Deduct	-2.16	
26 05 29 00-0343 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	4.65	
For >50 To 100, Deduct	-0.44	
For >100 To 250, Deduct	-0.87	
For >250 To 500, Deduct	-1.53	
For >500, Deduct	-2.18	
26 05 29 00-0344 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Machine Screw.....	5.72	
For >50 To 100, Deduct	-0.53	
For >100 To 250, Deduct	-1.05	
For >250 To 500, Deduct	-1.84	
For >500, Deduct	-2.62	
<b>26 05 29 00-0345 Hex Lag Bolts With Lag Shield Expansion Anchors</b> <small>(26 05 29 00-0330)</small> Note: Includes lag bolt, lag shield expansion anchor and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0346 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	5.58	
For >50 To 100, Deduct	-0.46	
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-2.27	
26 05 29 00-0347 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor.....	5.51	
For >50 To 100, Deduct	-0.46	
For >100 To 250, Deduct	-0.92	
For >250 To 500, Deduct	-1.59	
For >500, Deduct	-2.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0348 EA 3/8" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor .....	7.70	
<i>For &gt;50 To 100, Deduct</i>	-0.58	
<i>For &gt;100 To 250, Deduct</i>	-1.15	
<i>For &gt;250 To 500, Deduct</i>	-1.99	
<i>For &gt;500, Deduct</i>	-2.82	
26 05 29 00-0349 EA 1/2" Diameter, 2" Length, Zinc Plated Steel, Hex Lag Bolt With Lag Shield Expansion Anchor .....	9.74	
<i>For &gt;50 To 100, Deduct</i>	-0.69	
<i>For &gt;100 To 250, Deduct</i>	-1.38	
<i>For &gt;250 To 500, Deduct</i>	-2.37	
<i>For &gt;500, Deduct</i>	-3.35	
<b>26 05 29 00-0350 Hanger Lag Bolts With Hex Nuts</b> <small>(26 05 29 00-0330)</small>		
Note: Includes hanger lag bolt (threaded one side), hex nut and drilling in concrete, concrete block, wood or steel.		
26 05 29 00-0351 EA 1/4" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	4.19	
<i>For &gt;50 To 100, Deduct</i>	-0.36	
<i>For &gt;100 To 250, Deduct</i>	-0.72	
<i>For &gt;250 To 500, Deduct</i>	-1.25	
<i>For &gt;500, Deduct</i>	-1.78	
26 05 29 00-0352 EA 5/16" Diameter, 2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	4.25	
<i>For &gt;50 To 100, Deduct</i>	-0.36	
<i>For &gt;100 To 250, Deduct</i>	-0.72	
<i>For &gt;250 To 500, Deduct</i>	-1.26	
<i>For &gt;500, Deduct</i>	-1.79	
26 05 29 00-0353 EA 3/8" Diameter, 2-1/2" Length, Zinc Plated Steel, Hanger Lag Bolt With Hex Nut.....	5.01	
<i>For &gt;50 To 100, Deduct</i>	-0.41	
<i>For &gt;100 To 250, Deduct</i>	-0.82	
<i>For &gt;250 To 500, Deduct</i>	-1.42	
<i>For &gt;500, Deduct</i>	-2.03	
<b>26 05 29 00-0354 Hollow Wall Screw Anchors</b> <small>(26 05 29 00-0330)</small>		
26 05 29 00-0355 EA 6-32 Screw Size, 5/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.48	
<i>For &gt;50 To 100, Deduct</i>	-0.22	
<i>For &gt;100 To 250, Deduct</i>	-0.43	
<i>For &gt;250 To 500, Deduct</i>	-0.75	
<i>For &gt;500, Deduct</i>	-1.07	
26 05 29 00-0356 EA 6-32 Screw Size, 5/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	2.55	
<i>For &gt;50 To 100, Deduct</i>	-0.22	
<i>For &gt;100 To 250, Deduct</i>	-0.44	
<i>For &gt;250 To 500, Deduct</i>	-0.76	
<i>For &gt;500, Deduct</i>	-1.08	
26 05 29 00-0357 EA 6-32 Screw Size, 5/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	2.65	
<i>For &gt;50 To 100, Deduct</i>	-0.22	
<i>For &gt;100 To 250, Deduct</i>	-0.44	
<i>For &gt;250 To 500, Deduct</i>	-0.76	
<i>For &gt;500, Deduct</i>	-1.09	
26 05 29 00-0358 EA 10-24 Screw Size, 3/8" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.33	
<i>For &gt;50 To 100, Deduct</i>	-0.26	
<i>For &gt;100 To 250, Deduct</i>	-0.52	
<i>For &gt;250 To 500, Deduct</i>	-0.90	
<i>For &gt;500, Deduct</i>	-1.29	
26 05 29 00-0359 EA 10-24 Screw Size, 3/8" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.48	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.53	
<i>For &gt;250 To 500, Deduct</i>	-0.92	
<i>For &gt;500, Deduct</i>	-1.30	
26 05 29 00-0360 EA 10-24 Screw Size, 3/8" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	3.52	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.53	
<i>For &gt;250 To 500, Deduct</i>	-0.92	
<i>For &gt;500, Deduct</i>	-1.30	
26 05 29 00-0361 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 1/8" To 5/8" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.55	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.53	
<i>For &gt;250 To 500, Deduct</i>	-0.92	
<i>For &gt;500, Deduct</i>	-1.31	
26 05 29 00-0362 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 5/8" To 1-1/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor.....	3.77	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.55	
<i>For &gt;250 To 500, Deduct</i>	-0.94	
<i>For &gt;500, Deduct</i>	-1.33	
26 05 29 00-0363 EA 1/4-20 Screw Size, 7/16" Hole Diameter, 1-1/4" To 1-3/4" Grip Range, Zinc Plated Steel, Hollow Wall Screw Anchor .....	3.85	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100 To 250, Deduct</i>	-0.55	
<i>For &gt;250 To 500, Deduct</i>	-0.94	
<i>For &gt;500, Deduct</i>	-1.34	
<b>26 05 29 00-0364 Lead Screw Anchors</b> <small>(26 05 29 00-0330)</small>		
Note: Includes screw.		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0365	EA		#6-8 Screw Size, 1/4" Hole Diameter, Lead Screw Anchor With Screw .....	5.80	
			<i>For &gt;50 To 100, Deduct</i>	-0.54	
			<i>For &gt;100 To 250, Deduct</i>	-1.08	
			<i>For &gt;250 To 500, Deduct</i>	-1.88	
			<i>For &gt;500, Deduct</i>	-2.68	
26 05 29 00-0366	EA		#10-14 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw .....	6.88	
			<i>For &gt;50 To 100, Deduct</i>	-0.63	
			<i>For &gt;100 To 250, Deduct</i>	-1.25	
			<i>For &gt;250 To 500, Deduct</i>	-2.18	
			<i>For &gt;500, Deduct</i>	-3.11	
26 05 29 00-0367	EA		#16-18 Screw Size, 5/16" Hole Diameter, Lead Screw Anchor With Screw .....	9.25	
			<i>For &gt;50 To 100, Deduct</i>	-0.81	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.81	
			<i>For &gt;500, Deduct</i>	-4.01	
<b>26 05 29 00-0368</b>			<b>Acoustical T-Bar Clips</b> <small>(26 05 29 00-0330)</small>		
			Note: For conduit installation above suspended ceilings up to 15' height.		
26 05 29 00-0369	EA		1/2" Conduit, Push-In Acoustical T-Bar Clip .....	9.30	
			<i>For &gt;50 To 100, Deduct</i>	-0.72	
			<i>For &gt;100 To 250, Deduct</i>	-1.45	
			<i>For &gt;250 To 500, Deduct</i>	-2.50	
			<i>For &gt;500, Deduct</i>	-3.55	
26 05 29 00-0370	EA		3/4" Conduit, Push-In Acoustical T-Bar Clip .....	9.75	
			<i>For &gt;50 To 100, Deduct</i>	-0.76	
			<i>For &gt;100 To 250, Deduct</i>	-1.52	
			<i>For &gt;250 To 500, Deduct</i>	-2.63	
			<i>For &gt;500, Deduct</i>	-3.73	
26 05 29 00-0371	EA		1" Conduit, Push-In Acoustical T-Bar Clip .....	10.59	
			<i>For &gt;50 To 100, Deduct</i>	-0.81	
			<i>For &gt;100 To 250, Deduct</i>	-1.62	
			<i>For &gt;250 To 500, Deduct</i>	-2.79	
			<i>For &gt;500, Deduct</i>	-3.97	
<b>26 05 29 00-0372</b>			<b>Threaded Rod, Accessories And Attachments</b> <small>(26 05 29)</small>		
<b>26 05 29 00-0373</b>			<b>Threaded Rod And Rod Accessories</b> <small>(26 05 29 00-0372)</small>		
<b>26 05 29 00-0374</b>			<b>Carbon Steel Threaded Rod</b> <small>(26 05 29 00-0373)</small>		
			Note: Includes plain finish.		
26 05 29 00-0375	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	4.56	0.97
			<i>For Galvanized, Add</i>	1.05	
			<i>For Zinc Coated, Add</i>	0.75	
26 05 29 00-0376	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	6.24	1.03
			<i>For Galvanized, Add</i>	1.68	
			<i>For Zinc Coated, Add</i>	1.19	
26 05 29 00-0377	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	8.62	1.06
			<i>For Galvanized, Add</i>	2.60	
			<i>For Zinc Coated, Add</i>	1.85	
26 05 29 00-0378	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	13.98	1.09
			<i>For Galvanized, Add</i>	4.72	
			<i>For Zinc Coated, Add</i>	3.36	
26 05 29 00-0379	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	15.23	1.13
			<i>For Galvanized, Add</i>	5.18	
			<i>For Zinc Coated, Add</i>	3.69	
26 05 29 00-0380	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	20.77	1.27
			<i>For Galvanized, Add</i>	7.28	
			<i>For Zinc Coated, Add</i>	5.19	
26 05 29 00-0381	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	25.80	1.42
			<i>For Galvanized, Add</i>	9.18	
			<i>For Zinc Coated, Add</i>	6.54	
<b>26 05 29 00-0382</b>			<b>Threaded Rod Couplings</b> <small>(26 05 29 00-0373)</small>		
26 05 29 00-0383	EA		3/8" Diameter, Threaded Rod Coupling Nut .....	12.08	
26 05 29 00-0384	EA		1/2" Diameter, Threaded Rod Coupling Nut .....	13.66	
26 05 29 00-0385	EA		5/8" Diameter, Threaded Rod Coupling Nut .....	16.85	
26 05 29 00-0386	EA		3/4" Diameter, Threaded Rod Coupling Nut .....	20.28	
26 05 29 00-0387	EA		7/8" Diameter, Threaded Rod Coupling Nut .....	28.94	
26 05 29 00-0388	EA		1" Diameter, Threaded Rod Coupling Nut .....	34.30	
26 05 29 00-0389	EA		1-1/8" Diameter, Threaded Rod Coupling Nut .....	63.41	
<b>26 05 29 00-0390</b>			<b>Flat Washers</b> <small>(26 05 29 00-0373)</small>		
26 05 29 00-0391	EA		3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.03	0.38
			<i>For Galvanized, Add</i>	0.04	
26 05 29 00-0392	EA		1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.30	0.38
			<i>For Galvanized, Add</i>	0.09	
26 05 29 00-0393	EA		5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.67	0.38
			<i>For Galvanized, Add</i>	0.17	
26 05 29 00-0394	EA		3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	2.02	0.77
			<i>For Galvanized, Add</i>	0.24	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0395	EA			7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.26	0.77
				<i>For Galvanized, Add</i>	0.28	
26 05 29 00-0396	EA			1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.67	0.77
				<i>For Galvanized, Add</i>	0.35	
26 05 29 00-0397	EA			1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.99	0.77
				<i>For Galvanized, Add</i>	0.39	
<b>26 05 29 00-0398</b>				<b>Malleable Iron Eye Sockets</b> (26 05 29 00-0373)		
				Note: Type 16.		
26 05 29 00-0399	EA			3/8" Rod Size, Malleable Iron Eye Socket .....	14.52	
26 05 29 00-0400	EA			1/2" Rod Size, Malleable Iron Eye Socket .....	17.37	
26 05 29 00-0401	EA			5/8" Rod Size, Malleable Iron Eye Socket .....	30.33	
26 05 29 00-0402	EA			3/4" Rod Size, Malleable Iron Eye Socket .....	43.28	
26 05 29 00-0403	EA			7/8" Rod Size, Malleable Iron Eye Socket .....	46.10	
<b>26 05 29 00-0404</b>				<b>Hex Nuts</b> (26 05 29 00-0373)		
26 05 29 00-0405	EA			3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.00	0.38
				<i>For Galvanized, Add</i>	0.03	
26 05 29 00-0406	EA			1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.25	0.38
				<i>For Galvanized, Add</i>	0.07	
26 05 29 00-0407	EA			5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.67	0.38
				<i>For Galvanized, Add</i>	0.17	
26 05 29 00-0408	EA			3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.96	0.77
				<i>For Galvanized, Add</i>	0.22	
26 05 29 00-0409	EA			7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.81	0.77
				<i>For Galvanized, Add</i>	0.42	
26 05 29 00-0410	EA			1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	3.55	0.77
				<i>For Galvanized, Add</i>	0.57	
26 05 29 00-0411	EA			1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.72	0.77
				<i>For Galvanized, Add</i>	1.08	
<b>26 05 29 00-0412</b>				<b>Forged Steel Turnbuckles</b> (26 05 29 00-0373)		
				Note: Type 13.		
26 05 29 00-0413	EA			3/8" Thread Diameter, Forged Steel Turnbuckle Body .....	35.61	
26 05 29 00-0414	EA			1/2" Thread Diameter, Forged Steel Turnbuckle Body .....	43.95	
26 05 29 00-0415	EA			5/8" Thread Diameter, Forged Steel Turnbuckle Body .....	58.79	
26 05 29 00-0416	EA			3/4" Thread Diameter, Forged Steel Turnbuckle Body .....	72.72	
26 05 29 00-0417	EA			7/8" Thread Diameter, Forged Steel Turnbuckle Body .....	178.49	
26 05 29 00-0418	EA			1" Thread Diameter, Forged Steel Turnbuckle Body .....	119.04	
26 05 29 00-0419	EA			1-1/4" Thread Diameter, Forged Steel Turnbuckle Body .....	238.95	
<b>26 05 29 00-0420</b>				<b>Attachments</b> (26 05 29 00-0372)		
<b>26 05 29 00-0421</b>				<b>Welded Beam Attachments</b> (26 05 29 00-0420)		
				Note: Type 22.		
26 05 29 00-0422	EA			3/8" Rod Size, Welded Beam Attachment .....	65.43	15.39
26 05 29 00-0423	EA			1/2" Rod Size, Welded Beam Attachment .....	69.78	16.15
26 05 29 00-0424	EA			5/8" Rod Size, Welded Beam Attachment .....	74.26	17.07
26 05 29 00-0425	EA			3/4" Rod Size, Welded Beam Attachment .....	94.25	18.15
26 05 29 00-0426	EA			7/8" Rod Size, Welded Beam Attachment .....	112.75	19.22
26 05 29 00-0427	EA			1" Rod Size, Welded Beam Attachment .....	157.37	22.00
26 05 29 00-0428	EA			1-1/8" Rod Size, Welded Beam Attachment .....	221.76	23.07
<b>26 05 29 00-0429</b>				<b>C-Clamp Style Beam Clamps</b> (26 05 29 00-0420)		
				Note: Type 23. Top or bottom flange mount.		
26 05 29 00-0430	EA			3/8" Rod Size, C-Clamp Style Beam Clamp .....	23.49	11.56
26 05 29 00-0431	EA			1/2" Rod Size, C-Clamp Style Beam Clamp .....	27.87	12.32
26 05 29 00-0432	EA			5/8" Rod Size, C-Clamp Style Beam Clamp .....	31.55	13.20
26 05 29 00-0433	EA			3/4" Rod Size, C-Clamp Style Beam Clamp .....	40.25	14.21
26 05 29 00-0434	EA			7/8" Rod Size, C-Clamp Style Beam Clamp .....	57.84	15.40
<b>26 05 29 00-0435</b>				<b>Bottom Mount I-Beam Clamps</b> (26 05 29 00-0420)		
				Note: Type 21. For attaching threaded rod centered under beam flanges.		
26 05 29 00-0436	EA			3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....	62.90	15.40
26 05 29 00-0437	EA			1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....	91.79	16.80
26 05 29 00-0438	EA			5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....	130.54	18.49
26 05 29 00-0439	EA			3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....	156.07	20.53
26 05 29 00-0440	EA			1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp .....	374.97	23.10
<b>26 05 29 00-0441</b>				<b>Steel U-Bolts</b> (26 05 29 00-0420)		
				Note: Type 24. Includes plate and nuts.		
26 05 29 00-0442	EA			1/2" Pipe Size, Zinc Plated Steel, U-Bolt .....	19.14	9.24
26 05 29 00-0443	EA			3/4" Pipe Size, Zinc Plated Steel, U-Bolt .....	20.72	9.73
26 05 29 00-0444	EA			1" Pipe Size, Zinc Plated Steel, U-Bolt .....	22.28	10.27
26 05 29 00-0445	EA			1-1/4" Pipe Size, Zinc Plated Steel, U-Bolt .....	25.24	10.87

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0446 EA 1-1/2" Pipe Size, Zinc Plated Steel, U-Bolt .....	26.10	11.56
26 05 29 00-0447 EA 2" Pipe Size, Zinc Plated Steel, U-Bolt .....	27.93	12.32
26 05 29 00-0448 EA 2-1/2" Pipe Size, Zinc Plated Steel, U-Bolt .....	39.74	13.20
26 05 29 00-0449 EA 3" Pipe Size, Zinc Plated Steel, U-Bolt .....	43.76	14.21
26 05 29 00-0450 EA 4" Pipe Size, Zinc Plated Steel, U-Bolt .....	52.67	15.40
<b>26 05 29 00-0451 Stainless Steel Threaded Rod</b> <small>(26 05 29 00-0372)</small>		
26 05 29 00-0452 LF 1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	4.63	0.77
<i>For 316 Stainless Steel, Add</i>	1.25	
26 05 29 00-0453 LF 5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	6.99	0.84
<i>For 316 Stainless Steel, Add</i>	2.14	
26 05 29 00-0454 LF 3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	8.99	0.97
<i>For 316 Stainless Steel, Add</i>	2.86	
26 05 29 00-0455 LF 7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	12.49	0.99
<i>For 316 Stainless Steel, Add</i>	4.25	
26 05 29 00-0456 LF 1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	14.98	1.03
<i>For 316 Stainless Steel, Add</i>	5.24	
26 05 29 00-0457 LF 5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	22.47	1.04
<i>For 316 Stainless Steel, Add</i>	8.25	
26 05 29 00-0458 LF 3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	31.46	1.06
<i>For 316 Stainless Steel, Add</i>	11.88	
26 05 29 00-0459 LF 7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	43.29	1.09
<i>For 316 Stainless Steel, Add</i>	16.65	
26 05 29 00-0460 LF 1" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	55.63	1.27
<i>For 316 Stainless Steel, Add</i>	21.49	
26 05 29 00-0461 LF 1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod .....	117.78	1.54
<i>For 316 Stainless Steel, Add</i>	46.40	
<b>26 05 29 00-0462 Polyvinyl Chloride (PVC) Coated Supports</b> <small>(26 05 29)</small>		
<i>Note: Includes stainless steel and/or Polyvinyl Chloride (PVC) coated hardware.</i>		
<b>26 05 29 00-0463 Polyvinyl Chloride (PVC) Coated Beam Clamps</b> <small>(26 05 29 00-0462)</small>		
<b>26 05 29 00-0464 Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamps</b> <small>(26 05 29 00-0463)</small>		
26 05 29 00-0465 EA 1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	76.43	30.76
26 05 29 00-0466 EA 3/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	83.11	33.53
26 05 29 00-0467 EA 1", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	89.03	36.91
26 05 29 00-0468 EA 1-1/4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	105.75	41.07
26 05 29 00-0469 EA 1-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	121.77	46.15
26 05 29 00-0470 EA 2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	144.23	50.76
26 05 29 00-0471 EA 2-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	157.69	55.38
26 05 29 00-0472 EA 3", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	173.34	59.99
26 05 29 00-0473 EA 3-1/2", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	183.46	64.60
26 05 29 00-0474 EA 4", Right Angle, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	198.10	69.22
<b>26 05 29 00-0475 Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamps</b> <small>(26 05 29 00-0463)</small>		
26 05 29 00-0476 EA 1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	81.29	30.76
26 05 29 00-0477 EA 3/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	86.41	33.53
26 05 29 00-0478 EA 1", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	98.89	36.91
26 05 29 00-0479 EA 1-1/4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	109.26	41.07
26 05 29 00-0480 EA 1-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	123.12	46.15
26 05 29 00-0481 EA 2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	141.91	50.76
26 05 29 00-0482 EA 2-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	162.08	55.38
26 05 29 00-0483 EA 3", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	179.16	59.99
26 05 29 00-0484 EA 3-1/2", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	190.79	64.60
26 05 29 00-0485 EA 4", Parallel, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	199.07	69.22
<b>26 05 29 00-0486 Edge, Polyvinyl Chloride (PVC) Coated Beam Clamps</b> <small>(26 05 29 00-0463)</small>		
26 05 29 00-0487 EA 1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	77.23	30.45
26 05 29 00-0488 EA 3/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	83.21	33.23
26 05 29 00-0489 EA 1", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	93.98	36.91
26 05 29 00-0490 EA 1-1/4", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	109.38	40.61
26 05 29 00-0491 EA 1-1/2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	140.34	46.15
26 05 29 00-0492 EA 2", Edge, Polyvinyl Chloride (PVC) Coated Beam Clamp .....	153.92	50.76
<b>26 05 29 00-0493 Polyvinyl Chloride (PVC) Coated Conduit Straps</b> <small>(26 05 29 00-0462)</small>		
<b>26 05 29 00-0494 One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps</b> <small>(26 05 29 00-0493)</small>		
26 05 29 00-0495 EA 1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	8.46	0.92
26 05 29 00-0496 EA 3/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	9.16	0.92
26 05 29 00-0497 EA 1", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	13.32	0.92
26 05 29 00-0498 EA 1-1/4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	16.12	0.92
26 05 29 00-0499 EA 1-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	21.12	0.92
26 05 29 00-0500 EA 2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	31.56	0.92
26 05 29 00-0501 EA 2-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	41.94	0.92
26 05 29 00-0502 EA 3", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	56.07	0.92
26 05 29 00-0503 EA 3-1/2", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap .....	98.99	0.92



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 29 00-0504	EA		4", One Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	105.18	0.92
<b>26 05 29 00-0505</b>	<b>Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Straps (26 05 29 00-0493)</b>					
	26 05 29 00-0506	EA		1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	16.68	1.84
	26 05 29 00-0507	EA		3/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	16.75	1.84
	26 05 29 00-0508	EA		1", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	17.17	1.84
	26 05 29 00-0509	EA		1-1/4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	21.44	1.84
	26 05 29 00-0510	EA		1-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	22.03	1.84
	26 05 29 00-0511	EA		2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	25.18	1.84
	26 05 29 00-0512	EA		2-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	28.24	1.84
	26 05 29 00-0513	EA		3", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	29.50	1.84
	26 05 29 00-0514	EA		3-1/2", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	31.47	1.84
	26 05 29 00-0515	EA		4", Two Hole, Polyvinyl Chloride (PVC) Coated Steel Conduit Strap.....	34.08	1.84
<b>26 05 29 00-0516</b>	<b>Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0462)</b>					
<b>26 05 29 00-0517</b>	<b>Polyvinyl Chloride (PVC) Coated Clamp Back Spacer (26 05 29 00-0516)</b>					
	26 05 29 00-0518	EA		1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	15.18	1.84
	26 05 29 00-0519	EA		3/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	17.57	1.84
	26 05 29 00-0520	EA		1" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	21.93	1.84
	26 05 29 00-0521	EA		1-1/4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	25.56	1.84
	26 05 29 00-0522	EA		1-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	34.01	1.84
	26 05 29 00-0523	EA		2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	86.00	1.84
	26 05 29 00-0524	EA		2-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	82.66	1.84
	26 05 29 00-0525	EA		3" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	112.66	1.84
	26 05 29 00-0526	EA		3-1/2" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	196.74	1.84
	26 05 29 00-0527	EA		4" Polyvinyl Chloride (PVC) Coated Clamp Back Spacer.....	196.74	1.84
<b>26 05 29 00-0528</b>	<b>Polyvinyl Chloride (PVC) Coated Threaded Rod And Accessories (26 05 29 00-0462)</b>					
<b>26 05 29 00-0529</b>	<b>Polyvinyl Chloride (PVC) Coated Threaded Rod (26 05 29 00-0528)</b>					
	26 05 29 00-0530	LF		3/8" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	10.43	1.23
	26 05 29 00-0531	LF		1/2" Diameter, Polyvinyl Chloride (PVC) Coated Threaded Rod.....	12.81	1.38
<b>26 05 29 00-0532</b>	<b>Attachments (26 05 29 00-0462)</b>					
<b>26 05 29 00-0533</b>	<b>Polyvinyl Chloride (PVC) Coated U-Bolts And Encapsulation Nuts (26 05 29 00-0532)</b>					
	26 05 29 00-0534	EA		1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	22.61	9.24
	26 05 29 00-0535	EA		3/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	23.41	9.70
	26 05 29 00-0536	EA		1" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	24.66	10.32
	26 05 29 00-0537	EA		1-1/4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	26.23	10.93
	26 05 29 00-0538	EA		1-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	27.92	11.56
	26 05 29 00-0539	EA		2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	31.16	12.32
	26 05 29 00-0540	EA		2-1/2" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	43.48	13.25
	26 05 29 00-0541	EA		3" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	45.72	14.17
	26 05 29 00-0542	EA		4" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	48.82	15.41
	26 05 29 00-0543	EA		5" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	77.16	17.56
	26 05 29 00-0544	EA		6" Polyvinyl Chloride (PVC) Coated U-Bolt And Encapsulated Nuts.....	95.15	20.33
<b>26 05 29 00-0545</b>	<b>Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamps (26 05 29 00-0532)</b>					
	26 05 29 00-0546	EA		1/4", 20 Hole, 15/16" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	77.96	30.45
	26 05 29 00-0547	EA		5/16", 18 Hole, 7/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	89.52	30.45
	26 05 29 00-0548	EA		3/8", 16 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	94.29	30.45
	26 05 29 00-0549	EA		1/2", 13 Hole, 1" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	103.60	32.31
	26 05 29 00-0550	EA		1/2", 13 Hole, 2-1/8" Jaw, Polyvinyl Chloride (PVC) Coated Hanger Rod Beam Clamp.....	121.01	36.91
<b>26 05 29 00-0551</b>	<b>Polyvinyl Chloride (PVC) Coated Pipe Straps (26 05 29 00-0532)</b>					
	Note: Includes stainless steel nuts and bolts.					
	26 05 29 00-0552	EA		1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	33.53	10.15
	26 05 29 00-0553	EA		3/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	35.11	11.08
	26 05 29 00-0554	EA		1" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	38.28	12.00
	26 05 29 00-0555	EA		1-1/4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	42.95	13.84
	26 05 29 00-0556	EA		1-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	49.22	15.69
	26 05 29 00-0557	EA		2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	55.06	16.61
	26 05 29 00-0558	EA		2-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	60.80	18.46
	26 05 29 00-0559	EA		3" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	72.97	20.31
	26 05 29 00-0560	EA		3-1/2" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	80.16	21.23
	26 05 29 00-0561	EA		4" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	83.92	23.07
	26 05 29 00-0562	EA		5" Polyvinyl Chloride (PVC) Coated Pipe Strap.....	89.22	25.85
<b>26 05 29 00-0563</b>	<b>Polyvinyl Chloride (PVC) Coated Channel (26 05 29 00-0462)</b>					
	26 05 29 00-0564	LF		A12, Polyvinyl Chloride (PVC) Coated Channel.....	37.05	4.62
	26 05 29 00-0565	LF		A12A, Polyvinyl Chloride (PVC) Coated Channel.....	66.27	6.46
	26 05 29 00-0566	LF		A12P, Polyvinyl Chloride (PVC) Coated Channel.....	39.68	4.62

**26 Electrical****26 05 Common Work Results for Electrical****26 05 29 Hangers and Supports for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 29 00-0567 LF C14, Polyvinyl Chloride (PVC) Coated Channel .....	28.97	4.62
26 05 29 00-0568 LF C14P, Polyvinyl Chloride (PVC) Coated Channel.....	30.60	4.62
<b>26 05 29 00-0569 Polymer Concrete Pads (26 05 29)</b> Note: Excludes excavation and backfill.		
<b>26 05 29 00-0570 Polymer Concrete, Box Pads (26 05 29 00-0569)</b>		
26 05 29 00-0571 EA 24" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,358.12	122.62
26 05 29 00-0572 EA 25" x 25", 24" Depth, Polymer Concrete, Box Pad.....	1,404.11	122.62
26 05 29 00-0573 EA 40" x 44", 15" Depth, Polymer Concrete, Box Pad.....	1,826.68	122.62
26 05 29 00-0574 EA 40" x 44", 24" Depth, Polymer Concrete, Box Pad.....	1,896.74	122.62
26 05 29 00-0575 EA 52" x 36", 18" Depth, Polymer Concrete, Box Pad.....	1,761.46	122.62
26 05 29 00-0576 EA 44" x 44", 32" Depth, Polymer Concrete, Box Pad.....	2,092.34	122.62
26 05 29 00-0577 EA 40" x 58", 24" Depth, Polymer Concrete, Box Pad.....	2,346.05	122.62
26 05 29 00-0578 EA 52" x 50", 18" Depth, Polymer Concrete, Box Pad.....	2,241.44	153.27
26 05 29 00-0579 EA 74" x 76", 36" Depth, Polymer Concrete, Box Pad.....	3,426.86	153.27
26 05 29 00-0580 EA 93" x 93", 36" Depth, Polymer Concrete, Box Pad.....	4,618.14	153.27
<b>26 05 29 00-0581 Polymer Concrete, Telecommunications Equipment Pads (26 05 29 00-0569)</b>		
26 05 29 00-0582 EA 42" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	646.71	63.23
26 05 29 00-0583 EA 48" x 46", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	772.33	63.23
26 05 29 00-0584 EA 60" x 42", 3" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,007.47	91.96
26 05 29 00-0585 EA 54" x 48", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,054.16	91.96
26 05 29 00-0586 EA 57" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,529.44	91.96
26 05 29 00-0587 EA 72" x 60", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,595.49	91.96
26 05 29 00-0588 EA 64" x 72", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,718.58	91.96
26 05 29 00-0589 EA 72" x 64", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	1,718.58	91.96
26 05 29 00-0590 EA 76" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,264.91	91.96
26 05 29 00-0591 EA 96" x 84", 4" Thick, Polymer Concrete, Telecommunications Equipment Pad.....	3,706.13	91.96
<b>26 05 29 00-0592 Polymer Concrete, Electrical Equipment Pads (26 05 29 00-0569)</b>		
26 05 29 00-0593 EA 24" x 25", 2" Thick, Polymer Concrete, Electrical Equipment Pad .....	380.64	63.23
26 05 29 00-0594 EA 24" x 36", 2" Thick, Polymer Concrete, Electrical Equipment Pad .....	412.94	63.23
26 05 29 00-0595 EA 24" x 44", 2" Thick, Polymer Concrete, Electrical Equipment Pad .....	442.36	63.23
26 05 29 00-0596 EA 24" x 58", 2" Thick, Polymer Concrete, Electrical Equipment Pad .....	540.07	63.23
26 05 29 00-0597 EA 40" x 40", 3" Thick, Polymer Concrete, Electrical Equipment Pad .....	496.47	63.23
26 05 29 00-0598 EA 42" x 42", 3" Thick, Polymer Concrete, Electrical Equipment Pad .....	517.01	63.23
26 05 29 00-0599 EA 48" x 42", 4" Thick, Polymer Concrete, Electrical Equipment Pad .....	570.29	63.23
26 05 29 00-0600 EA 48" x 46", 3" Thick, Polymer Concrete, Electrical Equipment Pad .....	601.36	63.23
26 05 29 00-0601 EA 54" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad .....	705.14	63.23
26 05 29 00-0602 EA 56" x 44", 3" Thick, Polymer Concrete, Electrical Equipment Pad .....	876.09	63.23
26 05 29 00-0603 EA 64" x 64", 4" Thick, Polymer Concrete, Electrical Equipment Pad .....	1,300.46	91.96
26 05 29 00-0604 EA 66" x 72", 4" Thick, Polymer Concrete, Electrical Equipment Pad .....	1,362.95	91.96
26 05 29 00-0605 EA 75" x 52", 4" Thick, Polymer Concrete, Electrical Equipment Pad .....	1,382.66	91.96
26 05 29 00-0606 EA 90" x 48", 4" Thick, Polymer Concrete, Electrical Equipment Pad .....	1,514.00	91.96
26 05 29 00-0607 EA 84" x 96", 4" Thick, Polymer Concrete, Electrical Equipment Pad .....	3,270.84	91.96
26 05 29 00-0608 EA 96" x 80", 4" Thick, Polymer Concrete, Electrical Equipment Pad .....	3,859.29	91.96
<b>26 05 33 Raceway and Boxes for Electrical Systems (26 05)</b>		
<b>26 05 33 13 Conduit for Electrical Systems (26 05 33)</b>		
<b>26 05 33 13-0001 Conduit Assemblies With Wire (26 05 33 13)</b> Note: Includes conduit, fittings and wire. Excludes hangers or supports.		
<b>26 05 33 13-0002 Electrical Metallic Tubing (EMT) Conduit Assemblies (26 05 33 13-0001)</b> Note: Includes conduit, field bends, set screw connectors, set screw couplings, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0547 for larger copper conductor, 26 05 33 13-0599 for larger EMT conduit.		
26 05 33 13-0003 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....	1,145.66	343.51
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	294.48	
For 2 #12 THWN Conductor Instead Of THHN, Add	2.01	
26 05 33 13-0004 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....	1,250.06	373.03
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	319.79	
For 3 #12 THWN Conductor Instead Of THHN, Add	3.01	
26 05 33 13-0005 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor .....	1,354.45	402.54
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
For Work In Restricted Working Space, Add	345.08	
For 4 #12 THWN Conductor Instead Of THHN, Add	4.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0006 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,207.98	358.27
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	307.13	
<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	3.01	
26 05 33 13-0007 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,336.51	392.70
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	336.65	
<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	4.51	
26 05 33 13-0008 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,465.04	427.14
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	366.17	
<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	6.02	
26 05 33 13-0009 CLF 1/2" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,347.04	387.78
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	332.43	
<i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	5.25	
26 05 33 13-0010 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,277.71	370.35
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	317.42	
<i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	2.01	
26 05 33 13-0011 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,382.10	399.87
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	342.72	
<i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	3.01	
26 05 33 13-0012 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,486.49	429.38
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	368.02	
26 05 33 13-0013 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,590.89	458.90
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	393.32	
<i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	5.02	
26 05 33 13-0014 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,340.02	385.11
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	330.07	
<i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	3.01	
26 05 33 13-0015 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,468.55	419.54
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	359.59	
<i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	4.51	
26 05 33 13-0016 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,597.08	453.98
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	389.10	
<i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	6.02	
26 05 33 13-0017 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor.....	1,725.61	488.42
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	418.62	
<i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	7.52	
26 05 33 13-0018 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,658.04	458.90
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	393.32	
<i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	7.87	
26 05 33 13-0019 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor.....	1,836.99	503.18
Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	431.27	
<i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	10.49	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0020 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	1,654.27 380.67 8.67	444.14
26 05 33 13-0021 CLF 3/4" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	1,895.61 427.05 13.01	498.26
26 05 33 13-0022 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,462.66 341.71 2.01	398.60
26 05 33 13-0023 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,567.05 367.01 3.01	428.12
26 05 33 13-0024 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,671.44 392.31	457.64
26 05 33 13-0025 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	1,775.83 417.61 5.02	487.15
26 05 33 13-0026 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,524.98 354.36 3.01	413.36
26 05 33 13-0027 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,653.50 383.87 4.51	447.80
26 05 33 13-0028 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	1,782.02 413.39 6.02	482.24
26 05 33 13-0029 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	1,910.55 442.91 7.52	516.67
26 05 33 13-0030 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	1,842.98 417.61 7.87	487.15
26 05 33 13-0031 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,080.57 451.34 13.01	526.51
26 05 33 13-0032 CLF 1" Electrical Metallic Tubing (EMT) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor ..... Note: Includes conduit, set screw connectors, set screw couplings, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,321.90 497.72 17.35	580.61
26 05 33 13-0033 Rigid Galvanized Steel (RGS) Conduit Assemblies <small>(26 05 33 13-0001)</small> Note: Includes conduit, field bends, terminations, straps, and copper wire as indicated. Per CLF. See CSI section 26 05 19 16-0547 for larger copper conductor, 26 05 33 13-0060 for larger RGS conduit.		
26 05 33 13-0034 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,527.87 335.13 2.01	391.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0035 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,632.27  360.43 3.01	420.53
26 05 33 13-0036 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,590.19  347.78 3.01	405.77
26 05 33 13-0037 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,718.72  377.30 4.51	440.20
26 05 33 13-0038 CLF 1/2" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #8 THWN Conductor Instead Of THHN, Add</i>	1,729.24  373.08 5.25	435.29
26 05 33 13-0039 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #12 THWN Conductor Instead Of THHN, Add</i>	1,684.21  357.40 2.01	417.02
26 05 33 13-0040 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	1,788.61  382.70 3.01	446.53
26 05 33 13-0041 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	1,893.00  407.99	476.04
26 05 33 13-0042 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #10 THWN Conductor Instead Of THHN, Add</i>	1,746.53  370.04 3.01	431.78
26 05 33 13-0043 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	1,875.06  399.56 4.51	466.20
26 05 33 13-0044 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	2,003.58  429.08 6.02	500.64
26 05 33 13-0045 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	2,064.53  433.29 7.87	505.56
26 05 33 13-0046 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #8 THWN Conductor Instead Of THHN, Add</i>	2,243.48  471.24 10.49	549.84
26 05 33 13-0047 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 2 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 2 #6 THWN Conductor Instead Of THHN, Add</i>	2,060.78  420.64 8.67	490.80
26 05 33 13-0048 CLF 3/4" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,302.12  467.03 13.01	544.92
26 05 33 13-0049 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #12 THWN Conductor Instead Of THHN, Add</i>	2,172.38  426.84 3.01	497.98
26 05 33 13-0050 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	2,276.77  452.14	527.49
26 05 33 13-0051 CLF 1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #12 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #12 THWN Conductor Instead Of THHN, Add</i>	2,381.16  477.44 5.02	557.01

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0052	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #10 THWN Conductor Instead Of THHN, Add</i>	2,258.83 443.71 4.51	517.65
26 05 33 13-0053	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #10 THWN Conductor Instead Of THHN, Add</i>	2,387.36 473.22 6.02	552.09
26 05 33 13-0054	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 5 #10 Copper THHN And 1 #12 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 5 #10 THWN Conductor Instead Of THHN, Add</i>	2,515.89 502.74 7.52	586.53
26 05 33 13-0055	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #8 Copper THHN And 1 #10 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #8 THWN Conductor Instead Of THHN, Add</i>	2,448.31 477.44 7.87	557.01
26 05 33 13-0056	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 3 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 3 #6 THWN Conductor Instead Of THHN, Add</i>	2,685.90 511.17 13.01	596.36
26 05 33 13-0057	CLF		1" Rigid Galvanized Steel (RGS) Conduit Assembly With 4 #6 Copper THHN And 1 #8 Copper Insulated Grounding Conductor ..... Note: Includes conduit, terminations, straps, wire as indicated. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i> <i>For 4 #6 THWN Conductor Instead Of THHN, Add</i>	2,927.24 557.55 17.35	650.47
26 05 33 13-0058			<b>Conduit</b> <small>(26 05 33 13)</small> Note: Where 4-1/2" conduit is required, use tasks for 5" conduit. Add couplings as required at each fitting.		
26 05 33 13-0059			<b>Conduit Installed Above Grade</b> <small>(26 05 33 13-0058)</small> See CSI section 26 05 29 00-0000 for supporting strap, hanger and fastening.		
26 05 33 13-0060			<b>Rigid Galvanized Steel (RGS) Or Galvanized Rigid Steel Conduit (GRC) Conduit</b> <small>(26 05 33 13-0059)</small> Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-0061			<b>Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling</b> <small>(26 05 33 13-0060)</small> Note: Includes field bending for conduit up to 1".		
26 05 33 13-0062	LF		1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	11.11 -0.17 -0.64 -0.92 0.77 1.93 1.16 2.32 0.77 1.55 1.93 2.71 3.09 3.87 4.25	3.10
26 05 33 13-0063	LF		3/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling ..... <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For Installation In Metal Stud Wall, Add</i> <i>For Installation In Wood Stud Wall (Includes Drilling), Add</i> <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	13.17 -0.21 -0.76 -1.09 0.90 2.25 1.35 2.70 0.90 1.80 2.25 3.15 3.60 4.50 4.95	3.38





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0064 LF 1" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	18.53	3.94
For >250 To 500, Deduct	-0.32	
For >500 To 1,000, Deduct	-1.09	
For >1,000, Deduct	-1.55	
For Installation In Metal Stud Wall, Add	1.21	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.02	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.81	
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
26 05 33 13-0065 LF 1-1/4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	21.39	4.50
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-1.28	
For >1,000, Deduct	-1.82	
For Installation In Metal Stud Wall, Add	1.28	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.20	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.92	
For Work In Restricted Working Space, Add	3.84	
For Elevated Installation >10' To 15', Add	1.28	
For Elevated Installation >15' To 20', Add	2.56	
For Elevated Installation >20' To 25', Add	3.20	
For Elevated Installation >25' To 30', Add	4.48	
For Elevated Installation >30' To 35', Add	5.12	
For Elevated Installation >35' To 40', Add	6.40	
For Elevated Installation >40', Add	7.03	
26 05 33 13-0066 LF 1-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	24.59	5.06
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-1.49	
For >1,000, Deduct	-2.11	
For Installation In Metal Stud Wall, Add	1.41	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.52	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.11	
For Work In Restricted Working Space, Add	4.22	
For Elevated Installation >10' To 15', Add	1.41	
For Elevated Installation >15' To 20', Add	2.81	
For Elevated Installation >20' To 25', Add	3.52	
For Elevated Installation >25' To 30', Add	4.92	
For Elevated Installation >30' To 35', Add	5.62	
For Elevated Installation >35' To 40', Add	7.03	
For Elevated Installation >40', Add	7.73	
26 05 33 13-0067 LF 2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	31.37	6.18
For >250 To 500, Deduct	-0.70	
For >500 To 1,000, Deduct	-1.92	
For >1,000, Deduct	-2.71	
For Installation In Metal Stud Wall, Add	1.73	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.32	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.59	
For Work In Restricted Working Space, Add	5.18	
For Elevated Installation >10' To 15', Add	1.73	
For Elevated Installation >15' To 20', Add	3.46	
For Elevated Installation >20' To 25', Add	4.32	
For Elevated Installation >25' To 30', Add	6.05	
For Elevated Installation >30' To 35', Add	6.91	
For Elevated Installation >35' To 40', Add	8.64	
For Elevated Installation >40', Add	9.50	
26 05 33 13-0068 LF 2-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	46.82	8.44
For >250 To 500, Deduct	-1.17	
For >500 To 1,000, Deduct	-2.92	
For >1,000, Deduct	-4.10	
For Installation In Metal Stud Wall, Add	2.35	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.87	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.52	
For Work In Restricted Working Space, Add	7.04	
For Elevated Installation >10' To 15', Add	2.35	
For Elevated Installation >15' To 20', Add	4.69	
For Elevated Installation >20' To 25', Add	5.87	
For Elevated Installation >25' To 30', Add	8.21	
For Elevated Installation >30' To 35', Add	9.39	
For Elevated Installation >35' To 40', Add	11.74	
For Elevated Installation >40', Add	12.91	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0069 LF 3" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	61.33	11.24
For >250 To 500, Deduct	-1.49	
For >500 To 1,000, Deduct	-3.81	
For >1,000, Deduct	-5.34	
For Installation In Metal Stud Wall, Add	3.16	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.91	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.74	
For Work In Restricted Working Space, Add	9.49	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.91	
For Elevated Installation >25' To 30', Add	11.07	
For Elevated Installation >30' To 35', Add	12.65	
For Elevated Installation >35' To 40', Add	15.81	
For Elevated Installation >40', Add	17.39	
26 05 33 13-0070 LF 3-1/2" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	73.78	14.06
For >250 To 500, Deduct	-1.81	
For >500 To 1,000, Deduct	-4.60	
For >1,000, Deduct	-6.44	
For Installation In Metal Stud Wall, Add	3.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	9.38	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.63	
For Work In Restricted Working Space, Add	11.26	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.51	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.14	
For Elevated Installation >30' To 35', Add	15.01	
For Elevated Installation >35' To 40', Add	18.77	
For Elevated Installation >40', Add	20.64	
26 05 33 13-0071 LF 4" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	87.57	16.86
For >250 To 500, Deduct	-2.21	
For >500 To 1,000, Deduct	-5.49	
For >1,000, Deduct	-7.67	
For Installation In Metal Stud Wall, Add	4.33	
For Installation In Wood Stud Wall (Includes Drilling), Add	10.82	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	6.49	
For Work In Restricted Working Space, Add	12.99	
For Elevated Installation >10' To 15', Add	4.33	
For Elevated Installation >15' To 20', Add	8.66	
For Elevated Installation >20' To 25', Add	10.82	
For Elevated Installation >25' To 30', Add	15.15	
For Elevated Installation >30' To 35', Add	17.32	
For Elevated Installation >35' To 40', Add	21.65	
For Elevated Installation >40', Add	23.81	
26 05 33 13-0072 LF 5" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	138.90	21.36
For >250 To 500, Deduct	-4.27	
For >500 To 1,000, Deduct	-9.08	
For >1,000, Deduct	-12.55	
For Installation In Metal Stud Wall, Add	5.34	
For Installation In Wood Stud Wall (Includes Drilling), Add	13.35	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	8.01	
For Work In Restricted Working Space, Add	16.02	
For Elevated Installation >10' To 15', Add	5.34	
For Elevated Installation >15' To 20', Add	10.68	
For Elevated Installation >20' To 25', Add	13.35	
For Elevated Installation >25' To 30', Add	18.69	
For Elevated Installation >30' To 35', Add	21.36	
For Elevated Installation >35' To 40', Add	26.71	
For Elevated Installation >40', Add	29.38	
26 05 33 13-0073 LF 6" Rigid Galvanized Steel (RGS) Conduit With Threaded Coupling .....	187.62	26.98
For >250 To 500, Deduct	-6.01	
For >500 To 1,000, Deduct	-12.38	
For >1,000, Deduct	-17.08	
For Installation In Metal Stud Wall, Add	6.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	16.87	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	10.12	
For Work In Restricted Working Space, Add	20.24	
For Elevated Installation >10' To 15', Add	6.75	
For Elevated Installation >15' To 20', Add	13.49	
For Elevated Installation >20' To 25', Add	16.87	
For Elevated Installation >25' To 30', Add	23.61	
For Elevated Installation >30' To 35', Add	26.99	
For Elevated Installation >35' To 40', Add	33.74	
For Elevated Installation >40', Add	37.11	

26 05 33 13-0074 Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow (26 05 33 13-0060)  
See CSI section 26 05 33 13-2319 for conduit field bending.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0075 EA 1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	40.40	13.92
For Work In Restricted Working Space, Add	10.47	
For Elevated Installation >10' To 15', Add	3.49	
For Elevated Installation >15' To 20', Add	6.98	
For Elevated Installation >20' To 25', Add	8.73	
For Elevated Installation >25' To 30', Add	12.22	
For Elevated Installation >30' To 35', Add	13.96	
For Elevated Installation >35' To 40', Add	17.45	
For Elevated Installation >40', Add	19.20	
26 05 33 13-0076 EA 3/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	50.64	17.28
For Work In Restricted Working Space, Add	13.02	
For Elevated Installation >10' To 15', Add	4.34	
For Elevated Installation >15' To 20', Add	8.68	
For Elevated Installation >20' To 25', Add	10.85	
For Elevated Installation >25' To 30', Add	15.19	
For Elevated Installation >30' To 35', Add	17.36	
For Elevated Installation >35' To 40', Add	21.70	
For Elevated Installation >40', Add	23.86	
26 05 33 13-0077 EA 1" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	64.07	21.22
For Work In Restricted Working Space, Add	15.87	
For Elevated Installation >10' To 15', Add	5.29	
For Elevated Installation >15' To 20', Add	10.58	
For Elevated Installation >20' To 25', Add	13.23	
For Elevated Installation >25' To 30', Add	18.52	
For Elevated Installation >30' To 35', Add	21.16	
For Elevated Installation >35' To 40', Add	26.46	
For Elevated Installation >40', Add	29.10	
26 05 33 13-0078 EA 1-1/4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	80.53	24.60
For Work In Restricted Working Space, Add	18.43	
For Elevated Installation >10' To 15', Add	6.14	
For Elevated Installation >15' To 20', Add	12.29	
For Elevated Installation >20' To 25', Add	15.36	
For Elevated Installation >25' To 30', Add	21.50	
For Elevated Installation >30' To 35', Add	24.58	
For Elevated Installation >35' To 40', Add	30.72	
For Elevated Installation >40', Add	33.79	
26 05 33 13-0079 EA 1-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	93.28	28.25
For Work In Restricted Working Space, Add	21.16	
For Elevated Installation >10' To 15', Add	7.05	
For Elevated Installation >15' To 20', Add	14.10	
For Elevated Installation >20' To 25', Add	17.63	
For Elevated Installation >25' To 30', Add	24.68	
For Elevated Installation >30' To 35', Add	28.21	
For Elevated Installation >35' To 40', Add	35.26	
For Elevated Installation >40', Add	38.79	
26 05 33 13-0080 EA 2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	108.86	31.06
For Work In Restricted Working Space, Add	23.27	
For Elevated Installation >10' To 15', Add	7.76	
For Elevated Installation >15' To 20', Add	15.51	
For Elevated Installation >20' To 25', Add	19.39	
For Elevated Installation >25' To 30', Add	27.15	
For Elevated Installation >30' To 35', Add	31.03	
For Elevated Installation >35' To 40', Add	38.79	
For Elevated Installation >40', Add	42.66	
26 05 33 13-0081 EA 2-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	152.73	38.79
For Work In Restricted Working Space, Add	29.09	
For Elevated Installation >10' To 15', Add	9.70	
For Elevated Installation >15' To 20', Add	19.39	
For Elevated Installation >20' To 25', Add	24.24	
For Elevated Installation >25' To 30', Add	33.94	
For Elevated Installation >30' To 35', Add	38.79	
For Elevated Installation >35' To 40', Add	48.49	
For Elevated Installation >40', Add	53.33	
26 05 33 13-0082 EA 3" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	215.12	52.85
For Work In Restricted Working Space, Add	39.63	
For Elevated Installation >10' To 15', Add	13.21	
For Elevated Installation >15' To 20', Add	26.42	
For Elevated Installation >20' To 25', Add	33.03	
For Elevated Installation >25' To 30', Add	46.24	
For Elevated Installation >30' To 35', Add	52.84	
For Elevated Installation >35' To 40', Add	66.05	
For Elevated Installation >40', Add	72.66	
26 05 33 13-0083 EA 3-1/2" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	278.79	59.59
For Work In Restricted Working Space, Add	44.70	
For Elevated Installation >10' To 15', Add	14.90	
For Elevated Installation >15' To 20', Add	29.80	
For Elevated Installation >20' To 25', Add	37.25	
For Elevated Installation >25' To 30', Add	52.15	
For Elevated Installation >30' To 35', Add	59.60	
For Elevated Installation >35' To 40', Add	74.50	
For Elevated Installation >40', Add	81.95	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0084 EA 4" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	343.49	77.59
For Work In Restricted Working Space, Add	58.18	
For Elevated Installation >10' To 15', Add	19.39	
For Elevated Installation >15' To 20', Add	38.78	
For Elevated Installation >20' To 25', Add	48.48	
For Elevated Installation >25' To 30', Add	67.87	
For Elevated Installation >30' To 35', Add	77.57	
For Elevated Installation >35' To 40', Add	96.96	
For Elevated Installation >40', Add	106.66	
26 05 33 13-0085 EA 5" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	561.67	126.49
For Work In Restricted Working Space, Add	94.88	
For Elevated Installation >10' To 15', Add	31.63	
For Elevated Installation >15' To 20', Add	63.25	
For Elevated Installation >20' To 25', Add	79.06	
For Elevated Installation >25' To 30', Add	110.69	
For Elevated Installation >30' To 35', Add	126.50	
For Elevated Installation >35' To 40', Add	158.13	
For Elevated Installation >40', Add	173.94	
26 05 33 13-0086 EA 6" Rigid Galvanized Steel (RGS) 90 Degree Standard Radius Elbow .....	844.31	190.02
For Work In Restricted Working Space, Add	142.51	
For Elevated Installation >10' To 15', Add	47.50	
For Elevated Installation >15' To 20', Add	95.01	
For Elevated Installation >20' To 25', Add	118.76	
For Elevated Installation >25' To 30', Add	166.26	
For Elevated Installation >30' To 35', Add	190.01	
For Elevated Installation >35' To 40', Add	237.52	
For Elevated Installation >40', Add	261.27	
<b>26 05 33 13-0087 Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow</b> <small>(26 05 33 13-0060)</small>		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0088 EA 1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	40.40	13.92
For Work In Restricted Working Space, Add	10.47	
For Elevated Installation >10' To 15', Add	3.49	
For Elevated Installation >15' To 20', Add	6.98	
For Elevated Installation >20' To 25', Add	8.73	
For Elevated Installation >25' To 30', Add	12.22	
For Elevated Installation >30' To 35', Add	13.96	
For Elevated Installation >35' To 40', Add	17.45	
For Elevated Installation >40', Add	19.20	
26 05 33 13-0089 EA 3/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	50.64	17.28
For Work In Restricted Working Space, Add	13.02	
For Elevated Installation >10' To 15', Add	4.34	
For Elevated Installation >15' To 20', Add	8.68	
For Elevated Installation >20' To 25', Add	10.85	
For Elevated Installation >25' To 30', Add	15.19	
For Elevated Installation >30' To 35', Add	17.36	
For Elevated Installation >35' To 40', Add	21.70	
For Elevated Installation >40', Add	23.86	
26 05 33 13-0090 EA 1" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	64.07	21.22
For Work In Restricted Working Space, Add	15.87	
For Elevated Installation >10' To 15', Add	5.29	
For Elevated Installation >15' To 20', Add	10.58	
For Elevated Installation >20' To 25', Add	13.23	
For Elevated Installation >25' To 30', Add	18.52	
For Elevated Installation >30' To 35', Add	21.16	
For Elevated Installation >35' To 40', Add	26.46	
For Elevated Installation >40', Add	29.10	
26 05 33 13-0091 EA 1-1/4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	80.53	24.60
For Work In Restricted Working Space, Add	18.43	
For Elevated Installation >10' To 15', Add	6.14	
For Elevated Installation >15' To 20', Add	12.29	
For Elevated Installation >20' To 25', Add	15.36	
For Elevated Installation >25' To 30', Add	21.50	
For Elevated Installation >30' To 35', Add	24.58	
For Elevated Installation >35' To 40', Add	30.72	
For Elevated Installation >40', Add	33.79	
26 05 33 13-0092 EA 1-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	93.28	28.25
For Work In Restricted Working Space, Add	21.16	
For Elevated Installation >10' To 15', Add	7.05	
For Elevated Installation >15' To 20', Add	14.10	
For Elevated Installation >20' To 25', Add	17.63	
For Elevated Installation >25' To 30', Add	24.68	
For Elevated Installation >30' To 35', Add	28.21	
For Elevated Installation >35' To 40', Add	35.26	
For Elevated Installation >40', Add	38.79	
26 05 33 13-0093 EA 2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	108.86	31.06
For Work In Restricted Working Space, Add	23.27	
For Elevated Installation >10' To 15', Add	7.76	
For Elevated Installation >15' To 20', Add	15.51	
For Elevated Installation >20' To 25', Add	19.39	
For Elevated Installation >25' To 30', Add	27.15	
For Elevated Installation >30' To 35', Add	31.03	
For Elevated Installation >35' To 40', Add	38.79	
For Elevated Installation >40', Add	42.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0094 EA 2-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	150.47	38.79
<i>For Work In Restricted Working Space, Add</i>	29.09	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.70	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.39	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.24	
<i>For Elevated Installation &gt;25' To 30', Add</i>	33.94	
<i>For Elevated Installation &gt;30' To 35', Add</i>	38.79	
<i>For Elevated Installation &gt;35' To 40', Add</i>	48.49	
<i>For Elevated Installation &gt;40', Add</i>	53.33	
26 05 33 13-0095 EA 3" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	206.30	52.85
<i>For Work In Restricted Working Space, Add</i>	39.63	
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.21	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.42	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	46.24	
<i>For Elevated Installation &gt;30' To 35', Add</i>	52.84	
<i>For Elevated Installation &gt;35' To 40', Add</i>	66.05	
<i>For Elevated Installation &gt;40', Add</i>	72.66	
26 05 33 13-0096 EA 3-1/2" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	266.39	59.59
<i>For Work In Restricted Working Space, Add</i>	44.70	
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.90	
<i>For Elevated Installation &gt;15' To 20', Add</i>	29.80	
<i>For Elevated Installation &gt;20' To 25', Add</i>	37.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	52.15	
<i>For Elevated Installation &gt;30' To 35', Add</i>	59.60	
<i>For Elevated Installation &gt;35' To 40', Add</i>	74.50	
<i>For Elevated Installation &gt;40', Add</i>	81.95	
26 05 33 13-0097 EA 4" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	327.00	77.59
<i>For Work In Restricted Working Space, Add</i>	58.18	
<i>For Elevated Installation &gt;10' To 15', Add</i>	19.39	
<i>For Elevated Installation &gt;15' To 20', Add</i>	38.78	
<i>For Elevated Installation &gt;20' To 25', Add</i>	48.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	67.87	
<i>For Elevated Installation &gt;30' To 35', Add</i>	77.57	
<i>For Elevated Installation &gt;35' To 40', Add</i>	96.96	
<i>For Elevated Installation &gt;40', Add</i>	106.66	
26 05 33 13-0098 EA 5" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	561.67	126.49
<i>For Work In Restricted Working Space, Add</i>	94.88	
<i>For Elevated Installation &gt;10' To 15', Add</i>	31.63	
<i>For Elevated Installation &gt;15' To 20', Add</i>	63.25	
<i>For Elevated Installation &gt;20' To 25', Add</i>	79.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	110.69	
<i>For Elevated Installation &gt;30' To 35', Add</i>	126.50	
<i>For Elevated Installation &gt;35' To 40', Add</i>	158.13	
<i>For Elevated Installation &gt;40', Add</i>	173.94	
26 05 33 13-0099 EA 6" Rigid Galvanized Steel (RGS) 45 Degree Standard Radius Elbow .....	844.31	190.02
<i>For Work In Restricted Working Space, Add</i>	142.51	
<i>For Elevated Installation &gt;10' To 15', Add</i>	47.50	
<i>For Elevated Installation &gt;15' To 20', Add</i>	95.01	
<i>For Elevated Installation &gt;20' To 25', Add</i>	118.76	
<i>For Elevated Installation &gt;25' To 30', Add</i>	166.26	
<i>For Elevated Installation &gt;30' To 35', Add</i>	190.01	
<i>For Elevated Installation &gt;35' To 40', Add</i>	237.52	
<i>For Elevated Installation &gt;40', Add</i>	261.27	
<b>26 05 33 13-0100 Rigid Galvanized Steel (RGS) 12" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small>		
<i>See CSI section 26 05 33 13-2319 for conduit field bending.</i>		
26 05 33 13-0101 EA 1" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow .....	96.01	34.72
<i>For Work In Restricted Working Space, Add</i>	20.83	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
26 05 33 13-0102 EA 1-1/4" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	110.73	40.20
<i>For Work In Restricted Working Space, Add</i>	24.12	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
<i>For Elevated Installation &gt;40', Add</i>	44.21	
26 05 33 13-0103 EA 1-1/2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow.....	127.70	45.68
<i>For Work In Restricted Working Space, Add</i>	27.41	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.25	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0104 EA 2" Rigid Galvanized Steel (RGS) 12" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	143.31 30.15 10.05 20.10 25.12 35.17 40.20 50.25 55.27	50.25
<b>26 05 33 13-0105 Rigid Galvanized Steel (RGS) 15" Large Radius Elbow</b> (26 05 33 13-0060) See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0106 EA 1" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	102.90 20.83 6.94 13.89 17.36 24.30 27.77 34.72 38.19	34.72
26 05 33 13-0107 EA 1-1/4" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	119.59 24.12 8.04 16.08 20.10 28.14 32.16 40.20 44.21	40.20
26 05 33 13-0108 EA 1-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	131.74 27.41 9.14 18.27 22.84 31.98 36.54 45.68 50.25	45.68
26 05 33 13-0109 EA 2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	147.82 30.15 10.05 20.10 25.12 35.17 40.20 50.25 55.27	50.25
26 05 33 13-0110 EA 2-1/2" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	194.76 37.82 12.61 25.21 31.52 44.12 50.43 63.04 69.34	63.04
26 05 33 13-0111 EA 3" Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	262.60 51.53 17.18 34.35 42.94 60.11 68.70 85.88 94.46	85.87
<b>26 05 33 13-0112 Rigid Galvanized Steel (RGS) 18" Large Radius Elbow</b> (26 05 33 13-0060) See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0113 EA 1" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	103.23 20.83 6.94 13.89 17.36 24.30 27.77 34.72 38.19	34.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0114 EA 1-1/4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	118.71	40.20
For Work In Restricted Working Space, Add	24.12	
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.21	
26 05 33 13-0115 EA 1-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	136.10	45.68
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
26 05 33 13-0116 EA 2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	157.58	50.25
For Work In Restricted Working Space, Add	30.15	
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
26 05 33 13-0117 EA 2-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	203.86	63.04
For Work In Restricted Working Space, Add	37.82	
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
26 05 33 13-0118 EA 3" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	269.93	85.87
For Work In Restricted Working Space, Add	51.53	
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
26 05 33 13-0119 EA 3-1/2" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	332.46	96.84
For Work In Restricted Working Space, Add	58.10	
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
26 05 33 13-0120 EA 4" Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	407.23	126.07
For Work In Restricted Working Space, Add	75.65	
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.26	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.69	
<b>26 05 33 13-0121 Rigid Galvanized Steel (RGS) 24" Large Radius Elbow</b> (26 05 33 13-0060)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0122 EA 1" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	114.22	34.72
For Work In Restricted Working Space, Add	20.83	
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
26 05 33 13-0123 EA 1-1/4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	129.50	40.20
For Work In Restricted Working Space, Add	24.12	
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.21	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0124 EA 1-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	144.18	45.68
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
26 05 33 13-0125 EA 2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	169.49	50.25
For Work In Restricted Working Space, Add	30.15	
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
26 05 33 13-0126 EA 2-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	220.10	63.04
For Work In Restricted Working Space, Add	37.82	
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
26 05 33 13-0127 EA 3" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	295.39	85.87
For Work In Restricted Working Space, Add	51.53	
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
26 05 33 13-0128 EA 3-1/2" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	357.21	96.84
For Work In Restricted Working Space, Add	58.10	
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
26 05 33 13-0129 EA 4" Rigid Galvanized Steel (RGS) 24" Large Radius Elbow.....	426.96	126.07
For Work In Restricted Working Space, Add	75.65	
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.26	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.69	
<b>26 05 33 13-0130 Rigid Galvanized Steel (RGS) 30" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small>		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0131 EA 1" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	113.55	34.72
For Work In Restricted Working Space, Add	20.83	
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
26 05 33 13-0132 EA 1-1/4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	137.51	40.20
For Work In Restricted Working Space, Add	24.12	
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.21	
26 05 33 13-0133 EA 1-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	152.86	45.68
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0134 EA 2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	180.83	50.25
For Work In Restricted Working Space, Add	30.15	
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
26 05 33 13-0135 EA 2-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	235.67	63.04
For Work In Restricted Working Space, Add	37.82	
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
26 05 33 13-0136 EA 3" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	315.49	85.87
For Work In Restricted Working Space, Add	51.53	
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
26 05 33 13-0137 EA 3-1/2" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	381.67	96.84
For Work In Restricted Working Space, Add	58.10	
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
26 05 33 13-0138 EA 4" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	463.17	126.07
For Work In Restricted Working Space, Add	75.65	
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.26	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.69	
26 05 33 13-0139 EA 5" Rigid Galvanized Steel (RGS) 30" Large Radius Elbow.....	682.14	205.55
For Work In Restricted Working Space, Add	123.33	
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
<b>26 05 33 13-0140 Rigid Galvanized Steel (RGS) 36" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small>		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0141 EA 1" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	119.42	34.72
For Work In Restricted Working Space, Add	20.83	
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
26 05 33 13-0142 EA 1-1/4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	141.46	40.20
For Work In Restricted Working Space, Add	24.12	
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.21	
26 05 33 13-0143 EA 1-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow.....	168.07	45.68
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0144 EA 2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	189.69	50.25
For Work In Restricted Working Space, Add	30.15	
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
26 05 33 13-0145 EA 2-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	254.15	63.04
For Work In Restricted Working Space, Add	37.82	
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
26 05 33 13-0146 EA 3" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	332.68	85.87
For Work In Restricted Working Space, Add	51.53	
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
26 05 33 13-0147 EA 3-1/2" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	413.27	96.84
For Work In Restricted Working Space, Add	58.10	
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
26 05 33 13-0148 EA 4" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	480.21	126.07
For Work In Restricted Working Space, Add	75.65	
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.26	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.69	
26 05 33 13-0149 EA 5" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	821.13	205.55
For Work In Restricted Working Space, Add	123.33	
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
26 05 33 13-0150 EA 6" Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	1,068.04	308.79
For Work In Restricted Working Space, Add	185.27	
For Elevated Installation >10' To 15', Add	61.76	
For Elevated Installation >15' To 20', Add	123.52	
For Elevated Installation >20' To 25', Add	154.40	
For Elevated Installation >25' To 30', Add	216.15	
For Elevated Installation >30' To 35', Add	247.03	
For Elevated Installation >35' To 40', Add	308.79	
For Elevated Installation >40', Add	339.67	
<b>26 05 33 13-0151 Rigid Galvanized Steel (RGS) 42" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small>		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0152 EA 1" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	128.02	34.72
For Work In Restricted Working Space, Add	20.83	
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
26 05 33 13-0153 EA 1-1/4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	151.97	40.20
For Work In Restricted Working Space, Add	24.12	
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0154 EA 1-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	179.23	45.68
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
26 05 33 13-0155 EA 2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	201.36	50.25
For Work In Restricted Working Space, Add	30.15	
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
26 05 33 13-0156 EA 2-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	268.27	63.04
For Work In Restricted Working Space, Add	37.82	
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
26 05 33 13-0157 EA 3" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	357.87	85.87
For Work In Restricted Working Space, Add	51.53	
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
26 05 33 13-0158 EA 3-1/2" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	438.53	96.84
For Work In Restricted Working Space, Add	58.10	
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
26 05 33 13-0159 EA 4" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	552.89	126.07
For Work In Restricted Working Space, Add	75.65	
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.26	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.69	
26 05 33 13-0160 EA 5" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	921.40	205.55
For Work In Restricted Working Space, Add	123.33	
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
26 05 33 13-0161 EA 6" Rigid Galvanized Steel (RGS) 42" Large Radius Elbow.....	1,154.86	308.79
For Work In Restricted Working Space, Add	185.27	
For Elevated Installation >10' To 15', Add	61.76	
For Elevated Installation >15' To 20', Add	123.52	
For Elevated Installation >20' To 25', Add	154.40	
For Elevated Installation >25' To 30', Add	216.15	
For Elevated Installation >30' To 35', Add	247.03	
For Elevated Installation >35' To 40', Add	308.79	
For Elevated Installation >40', Add	339.67	
<b>26 05 33 13-0162 Rigid Galvanized Steel (RGS) 48" Large Radius Elbow</b> <small>(26 05 33 13-0060)</small>		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0163 EA 1" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	135.18	34.72
For Work In Restricted Working Space, Add	20.83	
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0164 EA 1-1/4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	160.06	40.20
For Work In Restricted Working Space, Add	24.12	
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.22	
26 05 33 13-0165 EA 1-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	186.29	45.68
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
26 05 33 13-0166 EA 2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	223.17	50.25
For Work In Restricted Working Space, Add	30.15	
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
26 05 33 13-0167 EA 2-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	294.33	63.04
For Work In Restricted Working Space, Add	37.82	
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
26 05 33 13-0168 EA 3" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	383.25	85.87
For Work In Restricted Working Space, Add	51.53	
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
26 05 33 13-0169 EA 3-1/2" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	470.29	96.84
For Work In Restricted Working Space, Add	58.10	
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
26 05 33 13-0170 EA 4" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	591.47	126.07
For Work In Restricted Working Space, Add	75.65	
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.26	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.69	
26 05 33 13-0171 EA 5" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	952.80	205.55
For Work In Restricted Working Space, Add	123.33	
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
26 05 33 13-0172 EA 6" Rigid Galvanized Steel (RGS) 48" Large Radius Elbow.....	1,172.43	308.79
For Work In Restricted Working Space, Add	185.27	
For Elevated Installation >10' To 15', Add	61.76	
For Elevated Installation >15' To 20', Add	123.52	
For Elevated Installation >20' To 25', Add	154.40	
For Elevated Installation >25' To 30', Add	216.15	
For Elevated Installation >30' To 35', Add	247.03	
For Elevated Installation >35' To 40', Add	308.79	
For Elevated Installation >40', Add	339.67	

26 05 33 13-0173 Rigid Galvanized Steel (RGS) Plastic Insulating Bushing (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0174 EA 1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	18.31	8.96
For Work In Restricted Working Space, Add	5.38	
For Elevated Installation >10' To 15', Add	1.79	
For Elevated Installation >15' To 20', Add	3.58	
For Elevated Installation >20' To 25', Add	4.48	
For Elevated Installation >25' To 30', Add	6.27	
For Elevated Installation >30' To 35', Add	7.17	
For Elevated Installation >35' To 40', Add	8.96	
For Elevated Installation >40', Add	9.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.38	
26 05 33 13-0175 EA 3/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	19.63	9.56
For Work In Restricted Working Space, Add	5.74	
For Elevated Installation >10' To 15', Add	1.91	
For Elevated Installation >15' To 20', Add	3.82	
For Elevated Installation >20' To 25', Add	4.78	
For Elevated Installation >25' To 30', Add	6.69	
For Elevated Installation >30' To 35', Add	7.65	
For Elevated Installation >35' To 40', Add	9.56	
For Elevated Installation >40', Add	10.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.74	
26 05 33 13-0176 EA 1" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	22.28	10.75
For Work In Restricted Working Space, Add	6.45	
For Elevated Installation >10' To 15', Add	2.15	
For Elevated Installation >15' To 20', Add	4.30	
For Elevated Installation >20' To 25', Add	5.38	
For Elevated Installation >25' To 30', Add	7.53	
For Elevated Installation >30' To 35', Add	8.60	
For Elevated Installation >35' To 40', Add	10.75	
For Elevated Installation >40', Add	11.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.45	
26 05 33 13-0177 EA 1-1/4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	25.02	11.94
For Work In Restricted Working Space, Add	7.17	
For Elevated Installation >10' To 15', Add	2.39	
For Elevated Installation >15' To 20', Add	4.78	
For Elevated Installation >20' To 25', Add	5.98	
For Elevated Installation >25' To 30', Add	8.37	
For Elevated Installation >30' To 35', Add	9.56	
For Elevated Installation >35' To 40', Add	11.95	
For Elevated Installation >40', Add	13.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.17	
26 05 33 13-0178 EA 1-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	31.41	14.93
For Work In Restricted Working Space, Add	8.96	
For Elevated Installation >10' To 15', Add	2.99	
For Elevated Installation >15' To 20', Add	5.97	
For Elevated Installation >20' To 25', Add	7.47	
For Elevated Installation >25' To 30', Add	10.45	
For Elevated Installation >30' To 35', Add	11.95	
For Elevated Installation >35' To 40', Add	14.94	
For Elevated Installation >40', Add	16.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.96	
26 05 33 13-0179 EA 2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	38.69	17.92
For Work In Restricted Working Space, Add	10.75	
For Elevated Installation >10' To 15', Add	3.58	
For Elevated Installation >15' To 20', Add	7.17	
For Elevated Installation >20' To 25', Add	8.96	
For Elevated Installation >25' To 30', Add	12.54	
For Elevated Installation >30' To 35', Add	14.34	
For Elevated Installation >35' To 40', Add	17.92	
For Elevated Installation >40', Add	19.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.75	
26 05 33 13-0180 EA 2-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	48.11	20.91
For Work In Restricted Working Space, Add	12.54	
For Elevated Installation >10' To 15', Add	4.18	
For Elevated Installation >15' To 20', Add	8.36	
For Elevated Installation >20' To 25', Add	10.45	
For Elevated Installation >25' To 30', Add	14.63	
For Elevated Installation >30' To 35', Add	16.72	
For Elevated Installation >35' To 40', Add	20.91	
For Elevated Installation >40', Add	23.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.54	
26 05 33 13-0181 EA 3" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	54.43	23.90
For Work In Restricted Working Space, Add	14.34	
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.95	
For Elevated Installation >25' To 30', Add	16.73	
For Elevated Installation >30' To 35', Add	19.12	
For Elevated Installation >35' To 40', Add	23.90	
For Elevated Installation >40', Add	26.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.34	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0182 EA 3-1/2" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	62.98	22.49
For Work In Restricted Working Space, Add	16.13	
For Elevated Installation >10' To 15', Add	5.38	
For Elevated Installation >15' To 20', Add	10.75	
For Elevated Installation >20' To 25', Add	13.44	
For Elevated Installation >25' To 30', Add	18.82	
For Elevated Installation >30' To 35', Add	21.50	
For Elevated Installation >35' To 40', Add	26.88	
For Elevated Installation >40', Add	29.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.13	
26 05 33 13-0183 EA 4" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	69.89	29.87
For Work In Restricted Working Space, Add	17.92	
For Elevated Installation >10' To 15', Add	5.97	
For Elevated Installation >15' To 20', Add	11.95	
For Elevated Installation >20' To 25', Add	14.93	
For Elevated Installation >25' To 30', Add	20.91	
For Elevated Installation >30' To 35', Add	23.89	
For Elevated Installation >35' To 40', Add	29.87	
For Elevated Installation >40', Add	32.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	17.92	
26 05 33 13-0184 EA 5" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	83.03	32.86
For Work In Restricted Working Space, Add	19.71	
For Elevated Installation >10' To 15', Add	6.57	
For Elevated Installation >15' To 20', Add	13.14	
For Elevated Installation >20' To 25', Add	16.43	
For Elevated Installation >25' To 30', Add	23.00	
For Elevated Installation >30' To 35', Add	26.28	
For Elevated Installation >35' To 40', Add	32.86	
For Elevated Installation >40', Add	36.14	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.71	
26 05 33 13-0185 EA 6" Rigid Galvanized Steel (RGS) Plastic Insulating Bushing .....	115.55	35.84
For Work In Restricted Working Space, Add	21.50	
For Elevated Installation >10' To 15', Add	7.17	
For Elevated Installation >15' To 20', Add	14.34	
For Elevated Installation >20' To 25', Add	17.92	
For Elevated Installation >25' To 30', Add	25.09	
For Elevated Installation >30' To 35', Add	28.67	
For Elevated Installation >35' To 40', Add	35.84	
For Elevated Installation >40', Add	39.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.50	
<b>26 05 33 13-0186 Rigid Galvanized Steel (RGS) Steel Bushing (26 05 33 13-0060)</b>		
26 05 33 13-0187 EA 1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....	22.04	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0188 EA 3/4" Rigid Galvanized Steel (RGS) Steel Bushing .....	23.90	11.24
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.62	
For Elevated Installation >25' To 30', Add	7.87	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0189 EA 1" Rigid Galvanized Steel (RGS) Steel Bushing .....	27.74	12.65
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-0190 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Bushing .....	31.13	14.06
For Work In Restricted Working Space, Add	8.43	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.84	
For Elevated Installation >30' To 35', Add	11.24	
For Elevated Installation >35' To 40', Add	14.06	
For Elevated Installation >40', Add	15.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0191 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....	39.60	17.57
<i>For Work In Restricted Working Space, Add</i>	10.54	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
<i>For Elevated Installation &gt;40', Add</i>	19.33	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-0192 EA 2" Rigid Galvanized Steel (RGS) Steel Bushing .....	46.96	21.08
<i>For Work In Restricted Working Space, Add</i>	12.65	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
<i>For Elevated Installation &gt;40', Add</i>	23.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.65	
26 05 33 13-0193 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....	64.27	24.60
<i>For Work In Restricted Working Space, Add</i>	14.76	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.84	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.30	
<i>For Elevated Installation &gt;25' To 30', Add</i>	17.22	
<i>For Elevated Installation &gt;30' To 35', Add</i>	19.68	
<i>For Elevated Installation &gt;35' To 40', Add</i>	24.60	
<i>For Elevated Installation &gt;40', Add</i>	27.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.76	
26 05 33 13-0194 EA 3" Rigid Galvanized Steel (RGS) Steel Bushing .....	76.01	28.11
<i>For Work In Restricted Working Space, Add</i>	16.87	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.24	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.11	
<i>For Elevated Installation &gt;40', Add</i>	30.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.87	
26 05 33 13-0195 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Bushing .....	109.46	31.62
<i>For Work In Restricted Working Space, Add</i>	18.98	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.33	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.65	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	22.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	25.30	
<i>For Elevated Installation &gt;35' To 40', Add</i>	31.63	
<i>For Elevated Installation &gt;40', Add</i>	34.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.98	
26 05 33 13-0196 EA 4" Rigid Galvanized Steel (RGS) Steel Bushing .....	145.22	35.14
<i>For Work In Restricted Working Space, Add</i>	21.08	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.05	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	28.11	
<i>For Elevated Installation &gt;35' To 40', Add</i>	35.14	
<i>For Elevated Installation &gt;40', Add</i>	38.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.08	
26 05 33 13-0197 EA 5" Rigid Galvanized Steel (RGS) Steel Bushing .....	190.98	38.65
<i>For Work In Restricted Working Space, Add</i>	23.19	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.46	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.33	
<i>For Elevated Installation &gt;25' To 30', Add</i>	27.06	
<i>For Elevated Installation &gt;30' To 35', Add</i>	30.92	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.65	
<i>For Elevated Installation &gt;40', Add</i>	42.52	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.19	
26 05 33 13-0198 EA 6" Rigid Galvanized Steel (RGS) Steel Bushing .....	276.19	42.16
<i>For Work In Restricted Working Space, Add</i>	25.30	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.43	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.87	
<i>For Elevated Installation &gt;20' To 25', Add</i>	21.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.52	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.73	
<i>For Elevated Installation &gt;35' To 40', Add</i>	42.17	
<i>For Elevated Installation &gt;40', Add</i>	46.38	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.30	

26 05 33 13-0199 Rigid Galvanized Steel (RGS) Steel Insulated Bushing (26 05 33 13-0060)

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0200 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	23.18	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0201 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	25.61	11.24
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.62	
For Elevated Installation >25' To 30', Add	7.87	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0202 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	29.90	12.65
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-0203 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing .....	34.77	14.06
For Work In Restricted Working Space, Add	8.43	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.84	
For Elevated Installation >30' To 35', Add	11.24	
For Elevated Installation >35' To 40', Add	14.06	
For Elevated Installation >40', Add	15.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.43	
26 05 33 13-0204 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing .....	43.40	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	
26 05 33 13-0205 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	53.69	21.08
For Work In Restricted Working Space, Add	12.65	
For Elevated Installation >10' To 15', Add	4.22	
For Elevated Installation >15' To 20', Add	8.43	
For Elevated Installation >20' To 25', Add	10.54	
For Elevated Installation >25' To 30', Add	14.76	
For Elevated Installation >30' To 35', Add	16.86	
For Elevated Installation >35' To 40', Add	21.08	
For Elevated Installation >40', Add	23.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.65	
26 05 33 13-0206 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing .....	73.40	24.60
For Work In Restricted Working Space, Add	14.76	
For Elevated Installation >10' To 15', Add	4.92	
For Elevated Installation >15' To 20', Add	9.84	
For Elevated Installation >20' To 25', Add	12.30	
For Elevated Installation >25' To 30', Add	17.22	
For Elevated Installation >30' To 35', Add	19.68	
For Elevated Installation >35' To 40', Add	24.60	
For Elevated Installation >40', Add	27.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.76	
26 05 33 13-0207 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	86.71	28.11
For Work In Restricted Working Space, Add	16.87	
For Elevated Installation >10' To 15', Add	5.62	
For Elevated Installation >15' To 20', Add	11.24	
For Elevated Installation >20' To 25', Add	14.06	
For Elevated Installation >25' To 30', Add	19.68	
For Elevated Installation >30' To 35', Add	22.49	
For Elevated Installation >35' To 40', Add	28.11	
For Elevated Installation >40', Add	30.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.87	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0208 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Bushing .....	111.45	31.62
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0209 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	154.13	35.14
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
26 05 33 13-0210 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	200.69	38.65
For Work In Restricted Working Space, Add	23.19	
For Elevated Installation >10' To 15', Add	7.73	
For Elevated Installation >15' To 20', Add	15.46	
For Elevated Installation >20' To 25', Add	19.33	
For Elevated Installation >25' To 30', Add	27.06	
For Elevated Installation >30' To 35', Add	30.92	
For Elevated Installation >35' To 40', Add	38.65	
For Elevated Installation >40', Add	42.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.19	
26 05 33 13-0211 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Bushing.....	279.62	42.16
For Work In Restricted Working Space, Add	25.30	
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.30	
<b>26 05 33 13-0212 Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing (26 05 33 13-0060)</b>		
26 05 33 13-0213 EA 1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	33.77	12.65
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-0214 EA 3/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	37.78	14.06
For Work In Restricted Working Space, Add	8.43	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.84	
For Elevated Installation >30' To 35', Add	11.24	
For Elevated Installation >35' To 40', Add	14.06	
For Elevated Installation >40', Add	15.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.43	
26 05 33 13-0215 EA 1" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	42.98	15.46
For Work In Restricted Working Space, Add	9.28	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.37	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 33 13-0216 EA 1-1/4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	50.74	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0217 EA 1-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	61.57	21.78
For Work In Restricted Working Space, Add	13.07	
For Elevated Installation >10' To 15', Add	4.36	
For Elevated Installation >15' To 20', Add	8.71	
For Elevated Installation >20' To 25', Add	10.89	
For Elevated Installation >25' To 30', Add	15.25	
For Elevated Installation >30' To 35', Add	17.43	
For Elevated Installation >35' To 40', Add	21.79	
For Elevated Installation >40', Add	23.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.07	
26 05 33 13-0218 EA 2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	77.01	26.00
For Work In Restricted Working Space, Add	15.60	
For Elevated Installation >10' To 15', Add	5.20	
For Elevated Installation >15' To 20', Add	10.40	
For Elevated Installation >20' To 25', Add	13.00	
For Elevated Installation >25' To 30', Add	18.20	
For Elevated Installation >30' To 35', Add	20.80	
For Elevated Installation >35' To 40', Add	26.00	
For Elevated Installation >40', Add	28.60	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.60	
26 05 33 13-0219 EA 2-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	101.30	30.22
For Work In Restricted Working Space, Add	18.13	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.09	
For Elevated Installation >20' To 25', Add	15.11	
For Elevated Installation >25' To 30', Add	21.15	
For Elevated Installation >30' To 35', Add	24.18	
For Elevated Installation >35' To 40', Add	30.22	
For Elevated Installation >40', Add	33.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.13	
26 05 33 13-0220 EA 3" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	112.42	35.14
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
26 05 33 13-0221 EA 3-1/2" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	126.98	39.36
For Work In Restricted Working Space, Add	23.61	
For Elevated Installation >10' To 15', Add	7.87	
For Elevated Installation >15' To 20', Add	15.74	
For Elevated Installation >20' To 25', Add	19.68	
For Elevated Installation >25' To 30', Add	27.55	
For Elevated Installation >30' To 35', Add	31.48	
For Elevated Installation >35' To 40', Add	39.36	
For Elevated Installation >40', Add	43.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.61	
26 05 33 13-0222 EA 4" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	161.03	43.57
For Work In Restricted Working Space, Add	26.14	
For Elevated Installation >10' To 15', Add	8.71	
For Elevated Installation >15' To 20', Add	17.43	
For Elevated Installation >20' To 25', Add	21.79	
For Elevated Installation >25' To 30', Add	30.50	
For Elevated Installation >30' To 35', Add	34.86	
For Elevated Installation >35' To 40', Add	43.57	
For Elevated Installation >40', Add	47.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.14	
26 05 33 13-0223 EA 5" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	222.76	47.79
For Work In Restricted Working Space, Add	28.67	
For Elevated Installation >10' To 15', Add	9.56	
For Elevated Installation >15' To 20', Add	19.11	
For Elevated Installation >20' To 25', Add	23.89	
For Elevated Installation >25' To 30', Add	33.45	
For Elevated Installation >30' To 35', Add	38.23	
For Elevated Installation >35' To 40', Add	47.79	
For Elevated Installation >40', Add	52.56	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.67	
26 05 33 13-0224 EA 6" Rigid Galvanized Steel (RGS) Steel Insulated Grounding Bushing.....	301.47	52.71
For Work In Restricted Working Space, Add	31.62	
For Elevated Installation >10' To 15', Add	10.54	
For Elevated Installation >15' To 20', Add	21.08	
For Elevated Installation >20' To 25', Add	26.35	
For Elevated Installation >25' To 30', Add	36.89	
For Elevated Installation >30' To 35', Add	42.16	
For Elevated Installation >35' To 40', Add	52.71	
For Elevated Installation >40', Add	57.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	31.62	

26 05 33 13-0225 Rigid Galvanized Steel (RGS) Box Connectors With Set Screw (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0226 EA 1/2" Rigid Galvanized Steel (RGS) Box Connector With Set Screw .....	21.46	6.46
For Work In Restricted Working Space, Add	4.81	
For Elevated Installation >10' To 15', Add	1.60	
For Elevated Installation >15' To 20', Add	3.21	
For Elevated Installation >20' To 25', Add	4.01	
For Elevated Installation >25' To 30', Add	5.61	
For Elevated Installation >30' To 35', Add	6.42	
For Elevated Installation >35' To 40', Add	8.02	
For Elevated Installation >40', Add	8.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.81	
26 05 33 13-0227 EA 3/4" Rigid Galvanized Steel (RGS) Box Connector With Set Screw .....	26.10	7.44
For Work In Restricted Working Space, Add	5.57	
For Elevated Installation >10' To 15', Add	1.86	
For Elevated Installation >15' To 20', Add	3.71	
For Elevated Installation >20' To 25', Add	4.64	
For Elevated Installation >25' To 30', Add	6.50	
For Elevated Installation >30' To 35', Add	7.43	
For Elevated Installation >35' To 40', Add	9.29	
For Elevated Installation >40', Add	10.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.57	
26 05 33 13-0228 EA 1" Rigid Galvanized Steel (RGS) Box Connector With Set Screw .....	34.40	9.00
For Work In Restricted Working Space, Add	6.72	
For Elevated Installation >10' To 15', Add	2.24	
For Elevated Installation >15' To 20', Add	4.48	
For Elevated Installation >20' To 25', Add	5.60	
For Elevated Installation >25' To 30', Add	7.84	
For Elevated Installation >30' To 35', Add	8.96	
For Elevated Installation >35' To 40', Add	11.20	
For Elevated Installation >40', Add	12.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.72	
26 05 33 13-0229 EA 1-1/4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	51.39	11.10
For Work In Restricted Working Space, Add	8.36	
For Elevated Installation >10' To 15', Add	2.79	
For Elevated Installation >15' To 20', Add	5.57	
For Elevated Installation >20' To 25', Add	6.96	
For Elevated Installation >25' To 30', Add	9.75	
For Elevated Installation >30' To 35', Add	11.14	
For Elevated Installation >35' To 40', Add	13.93	
For Elevated Installation >40', Add	15.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.36	
26 05 33 13-0230 EA 1-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	69.61	14.90
For Work In Restricted Working Space, Add	11.18	
For Elevated Installation >10' To 15', Add	3.73	
For Elevated Installation >15' To 20', Add	7.46	
For Elevated Installation >20' To 25', Add	9.32	
For Elevated Installation >25' To 30', Add	13.05	
For Elevated Installation >30' To 35', Add	14.91	
For Elevated Installation >35' To 40', Add	18.64	
For Elevated Installation >40', Add	20.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.18	
26 05 33 13-0231 EA 2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	119.24	22.34
For Work In Restricted Working Space, Add	16.75	
For Elevated Installation >10' To 15', Add	5.58	
For Elevated Installation >15' To 20', Add	11.17	
For Elevated Installation >20' To 25', Add	13.96	
For Elevated Installation >25' To 30', Add	19.54	
For Elevated Installation >30' To 35', Add	22.34	
For Elevated Installation >35' To 40', Add	27.92	
For Elevated Installation >40', Add	30.71	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.75	
26 05 33 13-0232 EA 2-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	218.73	24.74
For Work In Restricted Working Space, Add	18.55	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.37	
For Elevated Installation >20' To 25', Add	15.46	
For Elevated Installation >25' To 30', Add	21.64	
For Elevated Installation >30' To 35', Add	24.74	
For Elevated Installation >35' To 40', Add	30.92	
For Elevated Installation >40', Add	34.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.55	
26 05 33 13-0233 EA 3" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw .....	260.60	29.94
For Work In Restricted Working Space, Add	22.47	
For Elevated Installation >10' To 15', Add	7.49	
For Elevated Installation >15' To 20', Add	14.98	
For Elevated Installation >20' To 25', Add	18.73	
For Elevated Installation >25' To 30', Add	26.22	
For Elevated Installation >30' To 35', Add	29.96	
For Elevated Installation >35' To 40', Add	37.45	
For Elevated Installation >40', Add	41.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.47	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0234 EA 3-1/2" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	353.11	37.53
For Work In Restricted Working Space, Add	28.13	
For Elevated Installation >10' To 15', Add	9.38	
For Elevated Installation >15' To 20', Add	18.75	
For Elevated Installation >20' To 25', Add	23.44	
For Elevated Installation >25' To 30', Add	32.82	
For Elevated Installation >30' To 35', Add	37.51	
For Elevated Installation >35' To 40', Add	46.89	
For Elevated Installation >40', Add	51.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	28.13	
26 05 33 13-0235 EA 4" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	413.42	44.98
For Work In Restricted Working Space, Add	33.74	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.36	
For Elevated Installation >30' To 35', Add	44.98	
For Elevated Installation >35' To 40', Add	56.23	
For Elevated Installation >40', Add	61.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.74	
26 05 33 13-0236 EA 5" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	733.29	50.04
For Work In Restricted Working Space, Add	37.49	
For Elevated Installation >10' To 15', Add	12.50	
For Elevated Installation >15' To 20', Add	24.99	
For Elevated Installation >20' To 25', Add	31.24	
For Elevated Installation >25' To 30', Add	43.73	
For Elevated Installation >30' To 35', Add	49.98	
For Elevated Installation >35' To 40', Add	62.48	
For Elevated Installation >40', Add	68.72	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.49	
26 05 33 13-0237 EA 6" Rigid Galvanized Steel (RGS) Box Connector, Insulated With Set Screw.....	876.93	56.22
For Work In Restricted Working Space, Add	42.16	
For Elevated Installation >10' To 15', Add	14.05	
For Elevated Installation >15' To 20', Add	28.10	
For Elevated Installation >20' To 25', Add	35.13	
For Elevated Installation >25' To 30', Add	49.18	
For Elevated Installation >30' To 35', Add	56.21	
For Elevated Installation >35' To 40', Add	70.26	
For Elevated Installation >40', Add	77.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.16	
<b>26 05 33 13-0238 Rigid Galvanized Steel (RGS) Nipples (26 05 33 13-0060)</b>		
26 05 33 13-0239 EA 1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.04	9.14
For Work In Restricted Working Space, Add	5.48	
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.65	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.39	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.48	
26 05 33 13-0240 EA 3/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	23.08	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0241 EA 1" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	29.49	13.36
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.01	
26 05 33 13-0242 EA 1-1/4" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	34.46	15.46
For Work In Restricted Working Space, Add	9.28	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.37	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0243 EA 1-1/2" x 2" Long, Rigid Galvanized Steel (RGS) Nipple.....	39.33	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.78	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.05	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	
26 05 33 13-0244 EA 1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.19	9.14
For Work In Restricted Working Space, Add	5.48	
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.65	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.39	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.48	
26 05 33 13-0245 EA 3/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	23.30	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0246 EA 1" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	29.73	13.36
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.01	
26 05 33 13-0247 EA 1-1/4" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	34.80	15.46
For Work In Restricted Working Space, Add	9.28	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.37	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 33 13-0248 EA 1-1/2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	39.87	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.78	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.05	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	
26 05 33 13-0249 EA 2" x 2-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	45.09	19.68
For Work In Restricted Working Space, Add	11.81	
For Elevated Installation >10' To 15', Add	3.94	
For Elevated Installation >15' To 20', Add	7.87	
For Elevated Installation >20' To 25', Add	9.84	
For Elevated Installation >25' To 30', Add	13.78	
For Elevated Installation >30' To 35', Add	15.74	
For Elevated Installation >35' To 40', Add	19.68	
For Elevated Installation >40', Add	21.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.81	
26 05 33 13-0250 EA 1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.34	9.14
For Work In Restricted Working Space, Add	5.48	
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.65	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.39	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.48	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0251	EA	3/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	23.50	10.54
			<i>For Work In Restricted Working Space, Add</i>	6.32	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.38	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.54	
			<i>For Elevated Installation &gt;40', Add</i>	11.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33	13-0252	EA	1" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	30.08	13.36
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.67	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.34	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.35	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.35	
			<i>For Elevated Installation &gt;40', Add</i>	14.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33	13-0253	EA	1-1/4" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	35.11	15.46
			<i>For Work In Restricted Working Space, Add</i>	9.28	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.09	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.73	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.37	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.46	
			<i>For Elevated Installation &gt;40', Add</i>	17.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33	13-0254	EA	1-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	40.23	17.57
			<i>For Work In Restricted Working Space, Add</i>	10.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.05	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
			<i>For Elevated Installation &gt;40', Add</i>	19.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-0255	EA	2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	45.97	19.68
			<i>For Work In Restricted Working Space, Add</i>	11.81	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.77	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	15.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	19.68	
			<i>For Elevated Installation &gt;40', Add</i>	21.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33	13-0256	EA	2-1/2" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	61.47	23.90
			<i>For Work In Restricted Working Space, Add</i>	14.34	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.78	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.56	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.73	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.90	
			<i>For Elevated Installation &gt;40', Add</i>	26.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33	13-0257	EA	3" x 3" Long, Rigid Galvanized Steel (RGS) Nipple	82.86	33.03
			<i>For Work In Restricted Working Space, Add</i>	19.82	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.51	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.03	
			<i>For Elevated Installation &gt;40', Add</i>	36.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33	13-0258	EA	1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple	20.54	9.14
			<i>For Work In Restricted Working Space, Add</i>	5.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.83	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.57	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.39	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.31	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.14	
			<i>For Elevated Installation &gt;40', Add</i>	10.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0259 EA 3/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	23.60	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0260 EA 1" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	30.53	13.36
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.01	
26 05 33 13-0261 EA 1-1/4" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	35.68	15.46
For Work In Restricted Working Space, Add	9.28	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.37	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 33 13-0262 EA 1-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	40.99	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.78	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.05	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	
26 05 33 13-0263 EA 2" x 3-1/2" Long, Rigid Galvanized Steel (RGS), Nipple.....	46.89	19.68
For Work In Restricted Working Space, Add	11.81	
For Elevated Installation >10' To 15', Add	3.94	
For Elevated Installation >15' To 20', Add	7.87	
For Elevated Installation >20' To 25', Add	9.84	
For Elevated Installation >25' To 30', Add	13.77	
For Elevated Installation >30' To 35', Add	15.74	
For Elevated Installation >35' To 40', Add	19.68	
For Elevated Installation >40', Add	21.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.81	
26 05 33 13-0264 EA 2-1/2" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	63.96	23.90
For Work In Restricted Working Space, Add	14.34	
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.95	
For Elevated Installation >25' To 30', Add	16.73	
For Elevated Installation >30' To 35', Add	19.12	
For Elevated Installation >35' To 40', Add	23.90	
For Elevated Installation >40', Add	26.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.34	
26 05 33 13-0265 EA 3" x 3-1/2" Long, Rigid Galvanized Steel (RGS) Nipple.....	85.02	33.03
For Work In Restricted Working Space, Add	19.82	
For Elevated Installation >10' To 15', Add	6.61	
For Elevated Installation >15' To 20', Add	13.21	
For Elevated Installation >20' To 25', Add	16.51	
For Elevated Installation >25' To 30', Add	23.12	
For Elevated Installation >30' To 35', Add	26.42	
For Elevated Installation >35' To 40', Add	33.03	
For Elevated Installation >40', Add	36.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.82	
26 05 33 13-0266 EA 1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	20.73	9.14
For Work In Restricted Working Space, Add	5.48	
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.65	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.39	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.48	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0267	EA	3/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	23.95	10.54
			<i>For Work In Restricted Working Space, Add</i>	6.32	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.38	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.54	
			<i>For Elevated Installation &gt;40', Add</i>	11.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33	13-0268	EA	1" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	30.81	13.36
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.67	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.34	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.35	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.35	
			<i>For Elevated Installation &gt;40', Add</i>	14.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33	13-0269	EA	1-1/4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	35.96	15.46
			<i>For Work In Restricted Working Space, Add</i>	9.28	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.09	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.73	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.37	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.46	
			<i>For Elevated Installation &gt;40', Add</i>	17.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33	13-0270	EA	1-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	41.51	17.57
			<i>For Work In Restricted Working Space, Add</i>	10.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.05	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
			<i>For Elevated Installation &gt;40', Add</i>	19.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-0271	EA	2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	47.68	19.68
			<i>For Work In Restricted Working Space, Add</i>	11.81	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.77	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	15.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	19.68	
			<i>For Elevated Installation &gt;40', Add</i>	21.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33	13-0272	EA	2-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	64.72	23.90
			<i>For Work In Restricted Working Space, Add</i>	14.34	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.78	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.56	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.73	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.90	
			<i>For Elevated Installation &gt;40', Add</i>	26.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33	13-0273	EA	3" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	86.62	33.03
			<i>For Work In Restricted Working Space, Add</i>	19.82	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.51	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.03	
			<i>For Elevated Installation &gt;40', Add</i>	36.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33	13-0274	EA	3-1/2" x 4" Long, Rigid Galvanized Steel (RGS) Nipple	99.52	37.24
			<i>For Work In Restricted Working Space, Add</i>	22.35	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.45	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.90	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.62	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.80	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.25	
			<i>For Elevated Installation &gt;40', Add</i>	40.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0275 EA 4" x 4" Long, Rigid Galvanized Steel (RGS) Nipple.....	125.07	48.49
For Work In Restricted Working Space, Add	29.09	
For Elevated Installation >10' To 15', Add	9.70	
For Elevated Installation >15' To 20', Add	19.39	
For Elevated Installation >20' To 25', Add	24.24	
For Elevated Installation >25' To 30', Add	33.94	
For Elevated Installation >30' To 35', Add	38.79	
For Elevated Installation >35' To 40', Add	48.49	
For Elevated Installation >40', Add	53.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.09	
26 05 33 13-0276 EA 1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	21.02	9.14
For Work In Restricted Working Space, Add	5.48	
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.65	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.39	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.48	
26 05 33 13-0277 EA 3/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.38	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0278 EA 1" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	31.36	13.36
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.01	
26 05 33 13-0279 EA 1-1/4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	36.76	15.46
For Work In Restricted Working Space, Add	9.28	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.37	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 33 13-0280 EA 1-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	42.29	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.78	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.05	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	
26 05 33 13-0281 EA 2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	49.07	19.68
For Work In Restricted Working Space, Add	11.81	
For Elevated Installation >10' To 15', Add	3.94	
For Elevated Installation >15' To 20', Add	7.87	
For Elevated Installation >20' To 25', Add	9.84	
For Elevated Installation >25' To 30', Add	13.77	
For Elevated Installation >30' To 35', Add	15.74	
For Elevated Installation >35' To 40', Add	19.68	
For Elevated Installation >40', Add	21.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.81	
26 05 33 13-0282 EA 2-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple.....	67.80	23.90
For Work In Restricted Working Space, Add	14.34	
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.95	
For Elevated Installation >25' To 30', Add	16.73	
For Elevated Installation >30' To 35', Add	19.12	
For Elevated Installation >35' To 40', Add	23.90	
For Elevated Installation >40', Add	26.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.34	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0283	EA	3" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	89.96	33.03
			<i>For Work In Restricted Working Space, Add</i>	19.82	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.51	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.03	
			<i>For Elevated Installation &gt;40', Add</i>	36.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33	13-0284	EA	3-1/2" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	102.84	37.24
			<i>For Work In Restricted Working Space, Add</i>	22.35	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.45	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.90	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.62	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.80	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.25	
			<i>For Elevated Installation &gt;40', Add</i>	40.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33	13-0285	EA	4" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	129.92	48.49
			<i>For Work In Restricted Working Space, Add</i>	29.09	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.70	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.39	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.24	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.94	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.79	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	48.49	
			<i>For Elevated Installation &gt;40', Add</i>	53.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33	13-0286	EA	5" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	197.48	66.76
			<i>For Work In Restricted Working Space, Add</i>	40.06	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.35	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	26.70	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	33.38	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	46.73	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	53.41	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	66.76	
			<i>For Elevated Installation &gt;40', Add</i>	73.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06	
26 05 33	13-0287	EA	6" x 5" Long, Rigid Galvanized Steel (RGS) Nipple	251.01	85.59
			<i>For Work In Restricted Working Space, Add</i>	51.39	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.13	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.26	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.83	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	59.96	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	68.52	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	85.65	
			<i>For Elevated Installation &gt;40', Add</i>	94.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.39	
26 05 33	13-0288	EA	1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	21.56	9.14
			<i>For Work In Restricted Working Space, Add</i>	5.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.83	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.57	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.39	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.31	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.14	
			<i>For Elevated Installation &gt;40', Add</i>	10.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33	13-0289	EA	3/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	24.92	10.54
			<i>For Work In Restricted Working Space, Add</i>	6.32	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.38	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.54	
			<i>For Elevated Installation &gt;40', Add</i>	11.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33	13-0290	EA	1" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	31.79	13.36
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.67	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.34	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.35	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.35	
			<i>For Elevated Installation &gt;40', Add</i>	14.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0291 EA 1-1/4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.49	15.46
<i>For Work In Restricted Working Space, Add</i>	9.28	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.09	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.73	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.37	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.46	
<i>For Elevated Installation &gt;40', Add</i>	17.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33 13-0292 EA 1-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	43.93	17.57
<i>For Work In Restricted Working Space, Add</i>	10.54	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.05	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
<i>For Elevated Installation &gt;40', Add</i>	19.32	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-0293 EA 2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	50.46	19.68
<i>For Work In Restricted Working Space, Add</i>	11.81	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.87	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.77	
<i>For Elevated Installation &gt;30' To 35', Add</i>	15.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	19.68	
<i>For Elevated Installation &gt;40', Add</i>	21.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33 13-0294 EA 2-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	70.50	23.90
<i>For Work In Restricted Working Space, Add</i>	14.34	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.78	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.56	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.95	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.73	
<i>For Elevated Installation &gt;30' To 35', Add</i>	19.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	23.90	
<i>For Elevated Installation &gt;40', Add</i>	26.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33 13-0295 EA 3" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	93.35	33.03
<i>For Work In Restricted Working Space, Add</i>	19.82	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.21	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.51	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.42	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.03	
<i>For Elevated Installation &gt;40', Add</i>	36.33	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33 13-0296 EA 3-1/2" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	106.89	37.24
<i>For Work In Restricted Working Space, Add</i>	22.35	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.45	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.90	
<i>For Elevated Installation &gt;20' To 25', Add</i>	18.62	
<i>For Elevated Installation &gt;25' To 30', Add</i>	26.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	29.80	
<i>For Elevated Installation &gt;35' To 40', Add</i>	37.25	
<i>For Elevated Installation &gt;40', Add</i>	40.97	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33 13-0297 EA 4" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	133.77	48.49
<i>For Work In Restricted Working Space, Add</i>	29.09	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.70	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.39	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.24	
<i>For Elevated Installation &gt;25' To 30', Add</i>	33.94	
<i>For Elevated Installation &gt;30' To 35', Add</i>	38.79	
<i>For Elevated Installation &gt;35' To 40', Add</i>	48.49	
<i>For Elevated Installation &gt;40', Add</i>	53.33	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33 13-0298 EA 5" x 6" Long, Rigid Galvanized Steel (RGS) Nipple.....	203.12	66.76
<i>For Work In Restricted Working Space, Add</i>	40.06	
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.35	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.70	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.38	
<i>For Elevated Installation &gt;25' To 30', Add</i>	46.73	
<i>For Elevated Installation &gt;30' To 35', Add</i>	53.41	
<i>For Elevated Installation &gt;35' To 40', Add</i>	66.76	
<i>For Elevated Installation &gt;40', Add</i>	73.44	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0299	EA	6" x 6" Long, Rigid Galvanized Steel (RGS) Nipple	259.27	85.59
			<i>For Work In Restricted Working Space, Add</i>	51.39	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.13	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.26	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.83	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	59.96	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	68.52	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	85.65	
			<i>For Elevated Installation &gt;40', Add</i>	94.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.39	
26 05 33	13-0300	EA	1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	23.51	9.14
			<i>For Work In Restricted Working Space, Add</i>	5.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.83	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.57	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.39	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.31	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.14	
			<i>For Elevated Installation &gt;40', Add</i>	10.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33	13-0301	EA	3/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	27.42	10.54
			<i>For Work In Restricted Working Space, Add</i>	6.32	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.38	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.54	
			<i>For Elevated Installation &gt;40', Add</i>	11.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33	13-0302	EA	1" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	34.73	13.36
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.67	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.34	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.35	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.35	
			<i>For Elevated Installation &gt;40', Add</i>	14.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33	13-0303	EA	1-1/4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	41.67	15.46
			<i>For Work In Restricted Working Space, Add</i>	9.28	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.09	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.73	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.37	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.46	
			<i>For Elevated Installation &gt;40', Add</i>	17.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33	13-0304	EA	1-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	48.60	17.57
			<i>For Work In Restricted Working Space, Add</i>	10.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.05	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
			<i>For Elevated Installation &gt;40', Add</i>	19.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-0305	EA	2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	55.38	19.68
			<i>For Work In Restricted Working Space, Add</i>	11.81	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.77	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	15.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	19.68	
			<i>For Elevated Installation &gt;40', Add</i>	21.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33	13-0306	EA	2-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple	77.66	23.90
			<i>For Work In Restricted Working Space, Add</i>	14.34	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.78	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.56	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.73	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.90	
			<i>For Elevated Installation &gt;40', Add</i>	26.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0307 EA 3" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	101.57	33.03
For Work In Restricted Working Space, Add	19.82	
For Elevated Installation >10' To 15', Add	6.61	
For Elevated Installation >15' To 20', Add	13.21	
For Elevated Installation >20' To 25', Add	16.51	
For Elevated Installation >25' To 30', Add	23.12	
For Elevated Installation >30' To 35', Add	26.42	
For Elevated Installation >35' To 40', Add	33.03	
For Elevated Installation >40', Add	36.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.82	
26 05 33 13-0308 EA 3-1/2" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	115.09	37.24
For Work In Restricted Working Space, Add	22.35	
For Elevated Installation >10' To 15', Add	7.45	
For Elevated Installation >15' To 20', Add	14.90	
For Elevated Installation >20' To 25', Add	18.62	
For Elevated Installation >25' To 30', Add	26.07	
For Elevated Installation >30' To 35', Add	29.80	
For Elevated Installation >35' To 40', Add	37.25	
For Elevated Installation >40', Add	40.97	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	22.35	
26 05 33 13-0309 EA 4" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	142.83	48.49
For Work In Restricted Working Space, Add	29.09	
For Elevated Installation >10' To 15', Add	9.70	
For Elevated Installation >15' To 20', Add	19.39	
For Elevated Installation >20' To 25', Add	24.24	
For Elevated Installation >25' To 30', Add	33.94	
For Elevated Installation >30' To 35', Add	38.79	
For Elevated Installation >35' To 40', Add	48.49	
For Elevated Installation >40', Add	53.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.09	
26 05 33 13-0310 EA 5" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	216.19	66.76
For Work In Restricted Working Space, Add	40.06	
For Elevated Installation >10' To 15', Add	13.35	
For Elevated Installation >15' To 20', Add	26.70	
For Elevated Installation >20' To 25', Add	33.38	
For Elevated Installation >25' To 30', Add	46.73	
For Elevated Installation >30' To 35', Add	53.41	
For Elevated Installation >35' To 40', Add	66.76	
For Elevated Installation >40', Add	73.44	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.06	
26 05 33 13-0311 EA 6" x 8" Long, Rigid Galvanized Steel (RGS) Nipple.....	273.94	85.59
For Work In Restricted Working Space, Add	51.39	
For Elevated Installation >10' To 15', Add	17.13	
For Elevated Installation >15' To 20', Add	34.26	
For Elevated Installation >20' To 25', Add	42.83	
For Elevated Installation >25' To 30', Add	59.96	
For Elevated Installation >30' To 35', Add	68.52	
For Elevated Installation >35' To 40', Add	85.65	
For Elevated Installation >40', Add	94.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.39	
26 05 33 13-0312 EA 1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	24.83	9.14
For Work In Restricted Working Space, Add	5.48	
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.65	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.39	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.48	
26 05 33 13-0313 EA 3/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	28.70	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0314 EA 1" x 10" Long, Rigid Galvanized Steel (RGS) Nipple.....	37.06	13.36
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.01	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0315	EA	1-1/4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	44.45	15.46
			<i>For Work In Restricted Working Space, Add</i>	9.28	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.09	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.73	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	12.37	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	15.46	
			<i>For Elevated Installation &gt;40', Add</i>	17.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33	13-0316	EA	1-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	51.33	17.57
			<i>For Work In Restricted Working Space, Add</i>	10.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.05	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
			<i>For Elevated Installation &gt;40', Add</i>	19.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-0317	EA	2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	58.55	19.68
			<i>For Work In Restricted Working Space, Add</i>	11.81	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.77	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	15.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	19.68	
			<i>For Elevated Installation &gt;40', Add</i>	21.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33	13-0318	EA	2-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	82.48	23.90
			<i>For Work In Restricted Working Space, Add</i>	14.34	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.78	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.56	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	16.73	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	23.90	
			<i>For Elevated Installation &gt;40', Add</i>	26.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33	13-0319	EA	3" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	108.03	33.03
			<i>For Work In Restricted Working Space, Add</i>	19.82	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.51	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.03	
			<i>For Elevated Installation &gt;40', Add</i>	36.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33	13-0320	EA	3-1/2" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	123.60	37.24
			<i>For Work In Restricted Working Space, Add</i>	22.35	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.45	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.90	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.62	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.80	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.25	
			<i>For Elevated Installation &gt;40', Add</i>	40.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33	13-0321	EA	4" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	153.61	48.49
			<i>For Work In Restricted Working Space, Add</i>	29.09	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.70	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.39	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.24	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.94	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.79	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	48.49	
			<i>For Elevated Installation &gt;40', Add</i>	53.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33	13-0322	EA	5" x 10" Long, Rigid Galvanized Steel (RGS) Nipple	230.44	66.76
			<i>For Work In Restricted Working Space, Add</i>	40.06	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.35	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	26.70	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	33.38	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	46.73	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	53.41	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	66.76	
			<i>For Elevated Installation &gt;40', Add</i>	73.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0323 EA 6" x 10" Long, Rigid Galvanized Steel (RGS) Nipple .....	299.58	85.59
For Work In Restricted Working Space, Add	51.39	
For Elevated Installation >10' To 15', Add	17.13	
For Elevated Installation >15' To 20', Add	34.26	
For Elevated Installation >20' To 25', Add	42.83	
For Elevated Installation >25' To 30', Add	59.96	
For Elevated Installation >30' To 35', Add	68.52	
For Elevated Installation >35' To 40', Add	85.65	
For Elevated Installation >40', Add	94.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.39	
26 05 33 13-0324 EA 1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	25.83	9.14
For Work In Restricted Working Space, Add	5.48	
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.65	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.39	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.48	
26 05 33 13-0325 EA 3/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	29.64	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.32	
26 05 33 13-0326 EA 1" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	38.47	13.36
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.01	
26 05 33 13-0327 EA 1-1/4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	46.67	15.46
For Work In Restricted Working Space, Add	9.28	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.37	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.28	
26 05 33 13-0328 EA 1-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	52.70	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.78	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.05	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.32	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	
26 05 33 13-0329 EA 2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	61.21	19.68
For Work In Restricted Working Space, Add	11.81	
For Elevated Installation >10' To 15', Add	3.94	
For Elevated Installation >15' To 20', Add	7.87	
For Elevated Installation >20' To 25', Add	9.84	
For Elevated Installation >25' To 30', Add	13.77	
For Elevated Installation >30' To 35', Add	15.74	
For Elevated Installation >35' To 40', Add	19.68	
For Elevated Installation >40', Add	21.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.81	
26 05 33 13-0330 EA 2-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple .....	88.14	23.90
For Work In Restricted Working Space, Add	14.34	
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.95	
For Elevated Installation >25' To 30', Add	16.73	
For Elevated Installation >30' To 35', Add	19.12	
For Elevated Installation >35' To 40', Add	23.90	
For Elevated Installation >40', Add	26.28	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.34	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0331	EA	3" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	117.03	33.03
			<i>For Work In Restricted Working Space, Add</i>	19.82	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.51	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.03	
			<i>For Elevated Installation &gt;40', Add</i>	36.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33	13-0332	EA	3-1/2" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	131.89	37.24
			<i>For Work In Restricted Working Space, Add</i>	22.35	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.45	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.90	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.62	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	29.80	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.25	
			<i>For Elevated Installation &gt;40', Add</i>	40.97	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33	13-0333	EA	4" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	164.41	48.49
			<i>For Work In Restricted Working Space, Add</i>	29.09	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.70	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.39	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.24	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.94	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.79	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	48.49	
			<i>For Elevated Installation &gt;40', Add</i>	53.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33	13-0334	EA	5" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	250.92	66.76
			<i>For Work In Restricted Working Space, Add</i>	40.06	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.35	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	26.70	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	33.38	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	46.73	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	53.41	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	66.76	
			<i>For Elevated Installation &gt;40', Add</i>	73.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06	
26 05 33	13-0335	EA	6" x 12" Long, Rigid Galvanized Steel (RGS) Nipple.....	313.83	85.59
			<i>For Work In Restricted Working Space, Add</i>	51.39	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.13	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.26	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.83	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	59.96	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	68.52	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	85.65	
			<i>For Elevated Installation &gt;40', Add</i>	94.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.39	
<b>26 05 33</b>	<b>13-0336</b>		<b>Rigid Galvanized Steel (RGS) Off-Set Nipples (26 05 33 13-0060)</b>		
26 05 33	13-0337	EA	1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	21.31	7.30
			<i>For Work In Restricted Working Space, Add</i>	5.52	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.84	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.68	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.60	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.44	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.21	
			<i>For Elevated Installation &gt;40', Add</i>	10.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.52	
26 05 33	13-0338	EA	3/4" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	25.38	8.44
			<i>For Work In Restricted Working Space, Add</i>	6.29	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.10	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.19	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.24	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.34	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.38	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.48	
			<i>For Elevated Installation &gt;40', Add</i>	11.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.29	
26 05 33	13-0339	EA	1" Rigid Galvanized Steel (RGS) Off-Set Nipple.....	31.87	10.68
			<i>For Work In Restricted Working Space, Add</i>	8.04	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.68	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.36	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.70	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.38	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.72	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.41	
			<i>For Elevated Installation &gt;40', Add</i>	14.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.04	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0340 EA 1-1/4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	40.29	12.79
For Work In Restricted Working Space, Add	9.64	
For Elevated Installation >10' To 15', Add	3.21	
For Elevated Installation >15' To 20', Add	6.43	
For Elevated Installation >20' To 25', Add	8.03	
For Elevated Installation >25' To 30', Add	11.25	
For Elevated Installation >30' To 35', Add	12.85	
For Elevated Installation >35' To 40', Add	16.07	
For Elevated Installation >40', Add	17.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.64	
26 05 33 13-0341 EA 1-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	44.11	14.06
For Work In Restricted Working Space, Add	10.55	
For Elevated Installation >10' To 15', Add	3.52	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.31	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.58	
For Elevated Installation >40', Add	19.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.55	
26 05 33 13-0342 EA 2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	57.54	17.28
For Work In Restricted Working Space, Add	13.00	
For Elevated Installation >10' To 15', Add	4.33	
For Elevated Installation >15' To 20', Add	8.66	
For Elevated Installation >20' To 25', Add	10.83	
For Elevated Installation >25' To 30', Add	15.16	
For Elevated Installation >30' To 35', Add	17.33	
For Elevated Installation >35' To 40', Add	21.66	
For Elevated Installation >40', Add	23.83	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.00	
26 05 33 13-0343 EA 2-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	93.97	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
26 05 33 13-0344 EA 3" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	150.79	38.79
For Work In Restricted Working Space, Add	29.09	
For Elevated Installation >10' To 15', Add	9.70	
For Elevated Installation >15' To 20', Add	19.39	
For Elevated Installation >20' To 25', Add	24.24	
For Elevated Installation >25' To 30', Add	33.94	
For Elevated Installation >30' To 35', Add	38.79	
For Elevated Installation >35' To 40', Add	48.49	
For Elevated Installation >40', Add	53.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.09	
26 05 33 13-0345 EA 3-1/2" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	186.59	45.82
For Work In Restricted Working Space, Add	34.18	
For Elevated Installation >10' To 15', Add	11.39	
For Elevated Installation >15' To 20', Add	22.78	
For Elevated Installation >20' To 25', Add	28.48	
For Elevated Installation >25' To 30', Add	39.87	
For Elevated Installation >30' To 35', Add	45.57	
For Elevated Installation >35' To 40', Add	56.96	
For Elevated Installation >40', Add	62.66	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.18	
26 05 33 13-0346 EA 4" Rigid Galvanized Steel (RGS) Off-Set Nipple, Insulated .....	223.55	52.85
For Work In Restricted Working Space, Add	39.64	
For Elevated Installation >10' To 15', Add	13.21	
For Elevated Installation >15' To 20', Add	26.43	
For Elevated Installation >20' To 25', Add	33.03	
For Elevated Installation >25' To 30', Add	46.25	
For Elevated Installation >30' To 35', Add	52.85	
For Elevated Installation >35' To 40', Add	66.07	
For Elevated Installation >40', Add	72.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	39.64	
<b>26 05 33 13-0347 Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling</b> <small>(26 05 33 13-0060)</small>		
Note: Erickson fittings.		
26 05 33 13-0348 EA 1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	58.93	22.49
For Work In Restricted Working Space, Add	16.89	
For Elevated Installation >10' To 15', Add	5.63	
For Elevated Installation >15' To 20', Add	11.26	
For Elevated Installation >20' To 25', Add	14.07	
For Elevated Installation >25' To 30', Add	19.70	
For Elevated Installation >30' To 35', Add	22.52	
For Elevated Installation >35' To 40', Add	28.15	
For Elevated Installation >40', Add	30.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.89	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0349	EA	3/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	66.21	25.16
			<i>For Work In Restricted Working Space, Add</i>	18.85	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.28	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.56	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.71	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.13	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	31.41	
			<i>For Elevated Installation &gt;40', Add</i>	34.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.85	
26 05 33	13-0350	EA	1" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	76.24	27.97
			<i>For Work In Restricted Working Space, Add</i>	20.99	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.00	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.00	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.49	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.99	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	34.99	
			<i>For Elevated Installation &gt;40', Add</i>	38.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.99	
26 05 33	13-0351	EA	1-1/4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....	89.91	30.64
			<i>For Work In Restricted Working Space, Add</i>	22.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.31	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.14	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.80	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.29	
			<i>For Elevated Installation &gt;40', Add</i>	42.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.97	
26 05 33	13-0352	EA	1-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....	99.77	33.45
			<i>For Work In Restricted Working Space, Add</i>	25.13	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.32	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.51	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.89	
			<i>For Elevated Installation &gt;40', Add</i>	46.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.13	
26 05 33	13-0353	EA	2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	122.75	36.26
			<i>For Work In Restricted Working Space, Add</i>	27.22	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.07	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.15	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	36.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	45.37	
			<i>For Elevated Installation &gt;40', Add</i>	49.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.22	
26 05 33	13-0354	EA	2-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....	186.63	44.98
			<i>For Work In Restricted Working Space, Add</i>	33.74	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
			<i>For Elevated Installation &gt;40', Add</i>	61.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.74	
26 05 33	13-0355	EA	3" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson).....	253.14	56.22
			<i>For Work In Restricted Working Space, Add</i>	42.17	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	14.06	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	28.11	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	35.14	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	49.19	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	56.22	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	70.28	
			<i>For Elevated Installation &gt;40', Add</i>	77.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.17	
26 05 33	13-0356	EA	3-1/2" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....	356.25	67.47
			<i>For Work In Restricted Working Space, Add</i>	50.62	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.87	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	33.74	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.18	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	59.05	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	67.49	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	84.36	
			<i>For Elevated Installation &gt;40', Add</i>	92.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0357 EA 4" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....	403.24	73.99
<i>For Work In Restricted Working Space, Add</i>	54.81	
<i>For Elevated Installation &gt;10' To 15', Add</i>	18.27	
<i>For Elevated Installation &gt;15' To 20', Add</i>	36.54	
<i>For Elevated Installation &gt;20' To 25', Add</i>	45.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	63.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	73.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	91.35	
<i>For Elevated Installation &gt;40', Add</i>	100.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.81	
26 05 33 13-0358 EA 5" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....	677.48	89.95
<i>For Work In Restricted Working Space, Add</i>	67.46	
<i>For Elevated Installation &gt;10' To 15', Add</i>	22.49	
<i>For Elevated Installation &gt;15' To 20', Add</i>	44.97	
<i>For Elevated Installation &gt;20' To 25', Add</i>	56.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	78.70	
<i>For Elevated Installation &gt;30' To 35', Add</i>	89.94	
<i>For Elevated Installation &gt;35' To 40', Add</i>	112.43	
<i>For Elevated Installation &gt;40', Add</i>	123.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.46	
26 05 33 13-0359 EA 6" Rigid Galvanized Steel (RGS) 3-Piece Conduit Coupling (Erickson) .....	863.29	104.01
<i>For Work In Restricted Working Space, Add</i>	78.00	
<i>For Elevated Installation &gt;10' To 15', Add</i>	26.00	
<i>For Elevated Installation &gt;15' To 20', Add</i>	52.00	
<i>For Elevated Installation &gt;20' To 25', Add</i>	65.00	
<i>For Elevated Installation &gt;25' To 30', Add</i>	91.00	
<i>For Elevated Installation &gt;30' To 35', Add</i>	104.00	
<i>For Elevated Installation &gt;35' To 40', Add</i>	130.00	
<i>For Elevated Installation &gt;40', Add</i>	142.99	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	78.00	
<b>26 05 33 13-0360 Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0060)</small></b>		
26 05 33 13-0361 EA 1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	35.87	11.24
<i>For Work In Restricted Working Space, Add</i>	8.43	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.81	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.62	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.84	
<i>For Elevated Installation &gt;30' To 35', Add</i>	11.24	
<i>For Elevated Installation &gt;35' To 40', Add</i>	14.06	
<i>For Elevated Installation &gt;40', Add</i>	15.46	
26 05 33 13-0362 EA 3/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	40.10	12.36
<i>For Work In Restricted Working Space, Add</i>	9.28	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.09	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.73	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.37	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.46	
<i>For Elevated Installation &gt;40', Add</i>	17.01	
26 05 33 13-0363 EA 1" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	46.07	14.06
<i>For Work In Restricted Working Space, Add</i>	10.54	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
<i>For Elevated Installation &gt;40', Add</i>	19.33	
26 05 33 13-0364 EA 1-1/4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	52.38	15.18
<i>For Work In Restricted Working Space, Add</i>	11.39	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.80	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.59	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.49	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.28	
<i>For Elevated Installation &gt;30' To 35', Add</i>	15.18	
<i>For Elevated Installation &gt;35' To 40', Add</i>	18.98	
<i>For Elevated Installation &gt;40', Add</i>	20.87	
26 05 33 13-0365 EA 1-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	62.28	16.86
<i>For Work In Restricted Working Space, Add</i>	12.65	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
<i>For Elevated Installation &gt;40', Add</i>	23.19	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0366 EA 2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	76.12	18.56
For Work In Restricted Working Space, Add	13.91	
For Elevated Installation >10' To 15', Add	4.64	
For Elevated Installation >15' To 20', Add	9.28	
For Elevated Installation >20' To 25', Add	11.60	
For Elevated Installation >25' To 30', Add	16.23	
For Elevated Installation >30' To 35', Add	18.55	
For Elevated Installation >35' To 40', Add	23.19	
For Elevated Installation >40', Add	25.51	
26 05 33 13-0367 EA 2-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	103.88	22.49
For Work In Restricted Working Space, Add	16.87	
For Elevated Installation >10' To 15', Add	5.62	
For Elevated Installation >15' To 20', Add	11.24	
For Elevated Installation >20' To 25', Add	14.06	
For Elevated Installation >25' To 30', Add	19.68	
For Elevated Installation >30' To 35', Add	22.49	
For Elevated Installation >35' To 40', Add	28.11	
For Elevated Installation >40', Add	30.92	
26 05 33 13-0368 EA 3" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	128.43	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
26 05 33 13-0369 EA 3-1/2" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	154.30	33.73
For Work In Restricted Working Space, Add	25.30	
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
26 05 33 13-0370 EA 4" Rigid Galvanized Steel (RGS) To Electrical Metallic Tubing (EMT) Connector .....	174.44	36.54
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
<b>26 05 33 13-0371 Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs (26 05 33 13-0060)</b>		
26 05 33 13-0372 EA 1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	29.96	12.65
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-0373 EA 3/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	33.37	14.06
For Work In Restricted Working Space, Add	8.43	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.84	
For Elevated Installation >30' To 35', Add	11.24	
For Elevated Installation >35' To 40', Add	14.06	
For Elevated Installation >40', Add	15.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.43	
26 05 33 13-0374 EA 1" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs .....	41.31	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0375 EA 1-1/4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	50.54	21.08
For Work In Restricted Working Space, Add	12.65	
For Elevated Installation >10' To 15', Add	4.22	
For Elevated Installation >15' To 20', Add	8.43	
For Elevated Installation >20' To 25', Add	10.54	
For Elevated Installation >25' To 30', Add	14.76	
For Elevated Installation >30' To 35', Add	16.86	
For Elevated Installation >35' To 40', Add	21.08	
For Elevated Installation >40', Add	23.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.65	
26 05 33 13-0376 EA 1-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	65.43	28.11
For Work In Restricted Working Space, Add	16.87	
For Elevated Installation >10' To 15', Add	5.62	
For Elevated Installation >15' To 20', Add	11.24	
For Elevated Installation >20' To 25', Add	14.06	
For Elevated Installation >25' To 30', Add	19.68	
For Elevated Installation >30' To 35', Add	22.49	
For Elevated Installation >35' To 40', Add	28.11	
For Elevated Installation >40', Add	30.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.87	
26 05 33 13-0377 EA 2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	75.56	31.62
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0378 EA 2-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	91.17	35.14
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
26 05 33 13-0379 EA 3" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	121.31	44.27
For Work In Restricted Working Space, Add	26.57	
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	30.99	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-0380 EA 3-1/2" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	144.42	53.41
For Work In Restricted Working Space, Add	32.04	
For Elevated Installation >10' To 15', Add	10.68	
For Elevated Installation >15' To 20', Add	21.36	
For Elevated Installation >20' To 25', Add	26.70	
For Elevated Installation >25' To 30', Add	37.38	
For Elevated Installation >30' To 35', Add	42.72	
For Elevated Installation >35' To 40', Add	53.41	
For Elevated Installation >40', Add	58.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.04	
26 05 33 13-0381 EA 4" Rigid Galvanized Steel (RGS) Water Tight Conduit Hubs.....	176.08	63.25
For Work In Restricted Working Space, Add	37.95	
For Elevated Installation >10' To 15', Add	12.65	
For Elevated Installation >15' To 20', Add	25.30	
For Elevated Installation >20' To 25', Add	31.62	
For Elevated Installation >25' To 30', Add	44.27	
For Elevated Installation >30' To 35', Add	50.60	
For Elevated Installation >35' To 40', Add	63.25	
For Elevated Installation >40', Add	69.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.95	
<b>26 05 33 13-0382 Rigid Galvanized Steel (RGS) Expansion Fittings, 4" Conduit Movement</b> <small>(26 05 33 13-0060)</small>		
<small>Note: Type AX</small>		
26 05 33 13-0383 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....	115.59	22.49
For Work In Restricted Working Space, Add	16.87	
For Elevated Installation >10' To 15', Add	5.62	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.06	
For Elevated Installation >25' To 30', Add	19.68	
For Elevated Installation >30' To 35', Add	22.49	
For Elevated Installation >35' To 40', Add	28.12	
For Elevated Installation >40', Add	30.93	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0384	EA	3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	131.02	25.30
			<i>For Work In Restricted Working Space, Add</i>	18.98	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.33	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.65	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.81	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.30	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	31.63	
			<i>For Elevated Installation &gt;40', Add</i>	34.79	
26 05 33	13-0385	EA	1" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	153.65	28.11
			<i>For Work In Restricted Working Space, Add</i>	21.08	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.57	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.60	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	28.11	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	35.14	
			<i>For Elevated Installation &gt;40', Add</i>	38.65	
26 05 33	13-0386	EA	1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....	185.29	30.92
			<i>For Work In Restricted Working Space, Add</i>	23.19	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.73	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.46	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.33	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	27.06	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.92	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.65	
			<i>For Elevated Installation &gt;40', Add</i>	42.52	
26 05 33	13-0387	EA	1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....	228.64	33.73
			<i>For Work In Restricted Working Space, Add</i>	25.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.08	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.73	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	42.17	
			<i>For Elevated Installation &gt;40', Add</i>	46.38	
26 05 33	13-0388	EA	2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	307.82	36.54
			<i>For Work In Restricted Working Space, Add</i>	27.41	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.97	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
			<i>For Elevated Installation &gt;40', Add</i>	50.24	
26 05 33	13-0389	EA	2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....	462.38	44.98
			<i>For Work In Restricted Working Space, Add</i>	33.74	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
			<i>For Elevated Installation &gt;40', Add</i>	61.85	
26 05 33	13-0390	EA	3" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	591.25	56.22
			<i>For Work In Restricted Working Space, Add</i>	42.17	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	14.06	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	28.11	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	35.14	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	49.19	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	56.22	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	70.28	
			<i>For Elevated Installation &gt;40', Add</i>	77.30	
26 05 33	13-0391	EA	3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....	851.19	67.47
			<i>For Work In Restricted Working Space, Add</i>	50.60	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.87	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	33.74	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.17	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	59.04	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	67.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	84.34	
			<i>For Elevated Installation &gt;40', Add</i>	92.77	
26 05 33	13-0392	EA	4" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement.....	908.30	73.09
			<i>For Work In Restricted Working Space, Add</i>	54.81	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	18.27	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	36.54	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	45.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	63.95	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	73.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	91.35	
			<i>For Elevated Installation &gt;40', Add</i>	100.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0393 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....	1,373.25	89.95
<i>For Work In Restricted Working Space, Add</i>	67.46	
<i>For Elevated Installation &gt;10' To 15', Add</i>	22.49	
<i>For Elevated Installation &gt;15' To 20', Add</i>	44.98	
<i>For Elevated Installation &gt;20' To 25', Add</i>	56.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	78.71	
<i>For Elevated Installation &gt;30' To 35', Add</i>	89.95	
<i>For Elevated Installation &gt;35' To 40', Add</i>	112.44	
<i>For Elevated Installation &gt;40', Add</i>	123.68	
26 05 33 13-0394 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 4" Conduit Movement .....	1,678.22	99.79
<i>For Work In Restricted Working Space, Add</i>	74.89	
<i>For Elevated Installation &gt;10' To 15', Add</i>	24.96	
<i>For Elevated Installation &gt;15' To 20', Add</i>	49.92	
<i>For Elevated Installation &gt;20' To 25', Add</i>	62.41	
<i>For Elevated Installation &gt;25' To 30', Add</i>	87.37	
<i>For Elevated Installation &gt;30' To 35', Add</i>	99.85	
<i>For Elevated Installation &gt;35' To 40', Add</i>	124.81	
<i>For Elevated Installation &gt;40', Add</i>	137.29	
<b>26 05 33 13-0395 Rigid Galvanized Steel (RGS) Expansion Fittings, 8" Conduit Movement</b> <sub>(26 05 33 13-0090)</sub>		
Note: Type AX-8		
26 05 33 13-0396 EA 1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....	125.52	22.49
<i>For Work In Restricted Working Space, Add</i>	16.87	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.25	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.12	
<i>For Elevated Installation &gt;40', Add</i>	30.93	
26 05 33 13-0397 EA 3/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....	139.81	25.30
<i>For Work In Restricted Working Space, Add</i>	18.98	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.33	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.65	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	22.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	25.30	
<i>For Elevated Installation &gt;35' To 40', Add</i>	31.63	
<i>For Elevated Installation &gt;40', Add</i>	34.79	
26 05 33 13-0398 EA 1" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....	167.45	28.11
<i>For Work In Restricted Working Space, Add</i>	21.08	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.06	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.60	
<i>For Elevated Installation &gt;30' To 35', Add</i>	28.11	
<i>For Elevated Installation &gt;35' To 40', Add</i>	35.14	
<i>For Elevated Installation &gt;40', Add</i>	38.65	
26 05 33 13-0399 EA 1-1/4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....	207.01	30.92
<i>For Work In Restricted Working Space, Add</i>	23.19	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.46	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.33	
<i>For Elevated Installation &gt;25' To 30', Add</i>	27.06	
<i>For Elevated Installation &gt;30' To 35', Add</i>	30.92	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.65	
<i>For Elevated Installation &gt;40', Add</i>	42.52	
26 05 33 13-0400 EA 1-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....	271.82	33.73
<i>For Work In Restricted Working Space, Add</i>	25.30	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.43	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.87	
<i>For Elevated Installation &gt;20' To 25', Add</i>	21.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.52	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.73	
<i>For Elevated Installation &gt;35' To 40', Add</i>	42.17	
<i>For Elevated Installation &gt;40', Add</i>	46.38	
26 05 33 13-0401 EA 2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....	328.45	36.54
<i>For Work In Restricted Working Space, Add</i>	27.41	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.97	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.24	
26 05 33 13-0402 EA 2-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....	596.13	44.98
<i>For Work In Restricted Working Space, Add</i>	33.74	
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
<i>For Elevated Installation &gt;40', Add</i>	61.85	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0403 EA 3" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	682.58	56.22
For Work In Restricted Working Space, Add	42.17	
For Elevated Installation >10' To 15', Add	14.06	
For Elevated Installation >15' To 20', Add	28.11	
For Elevated Installation >20' To 25', Add	35.14	
For Elevated Installation >25' To 30', Add	49.19	
For Elevated Installation >30' To 35', Add	56.22	
For Elevated Installation >35' To 40', Add	70.28	
For Elevated Installation >40', Add	77.30	
26 05 33 13-0404 EA 3-1/2" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement .....	1,031.67	67.47
For Work In Restricted Working Space, Add	50.60	
For Elevated Installation >10' To 15', Add	16.87	
For Elevated Installation >15' To 20', Add	33.74	
For Elevated Installation >20' To 25', Add	42.17	
For Elevated Installation >25' To 30', Add	59.04	
For Elevated Installation >30' To 35', Add	67.47	
For Elevated Installation >35' To 40', Add	84.34	
For Elevated Installation >40', Add	92.77	
26 05 33 13-0405 EA 4" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,116.91	73.09
For Work In Restricted Working Space, Add	54.81	
For Elevated Installation >10' To 15', Add	18.27	
For Elevated Installation >15' To 20', Add	36.54	
For Elevated Installation >20' To 25', Add	45.68	
For Elevated Installation >25' To 30', Add	63.95	
For Elevated Installation >30' To 35', Add	73.08	
For Elevated Installation >35' To 40', Add	91.35	
For Elevated Installation >40', Add	100.49	
26 05 33 13-0406 EA 5" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,549.10	89.95
For Work In Restricted Working Space, Add	67.46	
For Elevated Installation >10' To 15', Add	22.49	
For Elevated Installation >15' To 20', Add	44.98	
For Elevated Installation >20' To 25', Add	56.22	
For Elevated Installation >25' To 30', Add	78.71	
For Elevated Installation >30' To 35', Add	89.95	
For Elevated Installation >35' To 40', Add	112.44	
For Elevated Installation >40', Add	123.68	
26 05 33 13-0407 EA 6" Rigid Galvanized Steel (RGS) Expansion Fitting, 8" Conduit Movement.....	1,904.46	99.79
For Work In Restricted Working Space, Add	74.89	
For Elevated Installation >10' To 15', Add	24.96	
For Elevated Installation >15' To 20', Add	49.92	
For Elevated Installation >20' To 25', Add	62.41	
For Elevated Installation >25' To 30', Add	87.37	
For Elevated Installation >30' To 35', Add	99.85	
For Elevated Installation >35' To 40', Add	124.81	
For Elevated Installation >40', Add	137.29	
<b>26 05 33 13-0408 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fittings, 8" Conduit Movement</b>		
<small>(26 05 33 13-0060)</small>		
Note: Type EX		
26 05 33 13-0409 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	140.04	22.49
For Work In Restricted Working Space, Add	16.87	
For Elevated Installation >10' To 15', Add	5.62	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.06	
For Elevated Installation >25' To 30', Add	19.68	
For Elevated Installation >30' To 35', Add	22.49	
For Elevated Installation >35' To 40', Add	28.12	
For Elevated Installation >40', Add	30.93	
26 05 33 13-0410 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	174.06	25.30
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
26 05 33 13-0411 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	213.71	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.06	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.60	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
26 05 33 13-0412 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	257.11	30.92
For Work In Restricted Working Space, Add	23.19	
For Elevated Installation >10' To 15', Add	7.73	
For Elevated Installation >15' To 20', Add	15.46	
For Elevated Installation >20' To 25', Add	19.33	
For Elevated Installation >25' To 30', Add	27.06	
For Elevated Installation >30' To 35', Add	30.92	
For Elevated Installation >35' To 40', Add	38.65	
For Elevated Installation >40', Add	42.52	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0413 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	339.65	33.73
<i>For Work In Restricted Working Space, Add</i>	25.30	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.43	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.87	
<i>For Elevated Installation &gt;20' To 25', Add</i>	21.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.52	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.73	
<i>For Elevated Installation &gt;35' To 40', Add</i>	42.17	
<i>For Elevated Installation &gt;40', Add</i>	46.38	
26 05 33 13-0414 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	459.53	36.54
<i>For Work In Restricted Working Space, Add</i>	27.41	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.97	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.24	
26 05 33 13-0415 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	704.04	44.98
<i>For Work In Restricted Working Space, Add</i>	33.74	
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
<i>For Elevated Installation &gt;40', Add</i>	61.85	
26 05 33 13-0416 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	945.32	56.22
<i>For Work In Restricted Working Space, Add</i>	42.17	
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.06	
<i>For Elevated Installation &gt;15' To 20', Add</i>	28.11	
<i>For Elevated Installation &gt;20' To 25', Add</i>	35.14	
<i>For Elevated Installation &gt;25' To 30', Add</i>	49.19	
<i>For Elevated Installation &gt;30' To 35', Add</i>	56.22	
<i>For Elevated Installation &gt;35' To 40', Add</i>	70.28	
<i>For Elevated Installation &gt;40', Add</i>	77.30	
26 05 33 13-0417 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,405.38	67.47
<i>For Work In Restricted Working Space, Add</i>	50.60	
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.87	
<i>For Elevated Installation &gt;15' To 20', Add</i>	33.74	
<i>For Elevated Installation &gt;20' To 25', Add</i>	42.17	
<i>For Elevated Installation &gt;25' To 30', Add</i>	59.04	
<i>For Elevated Installation &gt;30' To 35', Add</i>	67.47	
<i>For Elevated Installation &gt;35' To 40', Add</i>	84.34	
<i>For Elevated Installation &gt;40', Add</i>	92.77	
26 05 33 13-0418 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	1,457.30	73.09
<i>For Work In Restricted Working Space, Add</i>	54.81	
<i>For Elevated Installation &gt;10' To 15', Add</i>	18.27	
<i>For Elevated Installation &gt;15' To 20', Add</i>	36.54	
<i>For Elevated Installation &gt;20' To 25', Add</i>	45.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	63.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	73.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	91.35	
<i>For Elevated Installation &gt;40', Add</i>	100.49	
26 05 33 13-0419 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,176.55	89.95
<i>For Work In Restricted Working Space, Add</i>	67.46	
<i>For Elevated Installation &gt;10' To 15', Add</i>	22.49	
<i>For Elevated Installation &gt;15' To 20', Add</i>	44.98	
<i>For Elevated Installation &gt;20' To 25', Add</i>	56.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	78.71	
<i>For Elevated Installation &gt;30' To 35', Add</i>	89.95	
<i>For Elevated Installation &gt;35' To 40', Add</i>	112.44	
<i>For Elevated Installation &gt;40', Add</i>	123.68	
26 05 33 13-0420 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Expansion Fitting, 8" Conduit Movement.....	2,688.58	99.79
<i>For Work In Restricted Working Space, Add</i>	74.89	
<i>For Elevated Installation &gt;10' To 15', Add</i>	24.96	
<i>For Elevated Installation &gt;15' To 20', Add</i>	49.92	
<i>For Elevated Installation &gt;20' To 25', Add</i>	62.41	
<i>For Elevated Installation &gt;25' To 30', Add</i>	87.37	
<i>For Elevated Installation &gt;30' To 35', Add</i>	99.85	
<i>For Elevated Installation &gt;35' To 40', Add</i>	124.81	
<i>For Elevated Installation &gt;40', Add</i>	137.29	
<b>26 05 33 13-0421 Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fittings</b> <small>(26 05 33 13-0060)</small>		
Note: Type DX		
26 05 33 13-0422 EA 1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting.....	229.61	22.49
<i>For Work In Restricted Working Space, Add</i>	16.87	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.25	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.12	
<i>For Elevated Installation &gt;40', Add</i>	30.93	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0423 EA 3/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	272.28	25.30
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
26 05 33 13-0424 EA 1" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	327.06	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.06	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.60	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
26 05 33 13-0425 EA 1-1/4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	382.70	30.92
For Work In Restricted Working Space, Add	23.19	
For Elevated Installation >10' To 15', Add	7.73	
For Elevated Installation >15' To 20', Add	15.46	
For Elevated Installation >20' To 25', Add	19.33	
For Elevated Installation >25' To 30', Add	27.06	
For Elevated Installation >30' To 35', Add	30.92	
For Elevated Installation >35' To 40', Add	38.65	
For Elevated Installation >40', Add	42.52	
26 05 33 13-0426 EA 1-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	422.83	33.73
For Work In Restricted Working Space, Add	25.30	
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
26 05 33 13-0427 EA 2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	518.26	36.54
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.97	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.24	
26 05 33 13-0428 EA 2-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	682.23	44.98
For Work In Restricted Working Space, Add	33.74	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.36	
For Elevated Installation >30' To 35', Add	44.98	
For Elevated Installation >35' To 40', Add	56.23	
For Elevated Installation >40', Add	61.85	
26 05 33 13-0429 EA 3" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	864.51	56.22
For Work In Restricted Working Space, Add	42.17	
For Elevated Installation >10' To 15', Add	14.06	
For Elevated Installation >15' To 20', Add	28.11	
For Elevated Installation >20' To 25', Add	35.14	
For Elevated Installation >25' To 30', Add	49.19	
For Elevated Installation >30' To 35', Add	56.22	
For Elevated Installation >35' To 40', Add	70.28	
For Elevated Installation >40', Add	77.30	
26 05 33 13-0430 EA 3-1/2" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	976.27	67.47
For Work In Restricted Working Space, Add	50.60	
For Elevated Installation >10' To 15', Add	16.87	
For Elevated Installation >15' To 20', Add	33.74	
For Elevated Installation >20' To 25', Add	42.17	
For Elevated Installation >25' To 30', Add	59.04	
For Elevated Installation >30' To 35', Add	67.47	
For Elevated Installation >35' To 40', Add	84.34	
For Elevated Installation >40', Add	92.77	
26 05 33 13-0431 EA 4" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	1,176.53	73.09
For Work In Restricted Working Space, Add	54.81	
For Elevated Installation >10' To 15', Add	18.27	
For Elevated Installation >15' To 20', Add	36.54	
For Elevated Installation >20' To 25', Add	45.68	
For Elevated Installation >25' To 30', Add	63.95	
For Elevated Installation >30' To 35', Add	73.08	
For Elevated Installation >35' To 40', Add	91.35	
For Elevated Installation >40', Add	100.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0432 EA 5" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	1,982.94	89.95
For Work In Restricted Working Space, Add	67.46	
For Elevated Installation >10' To 15', Add	22.49	
For Elevated Installation >15' To 20', Add	44.98	
For Elevated Installation >20' To 25', Add	56.22	
For Elevated Installation >25' To 30', Add	78.71	
For Elevated Installation >30' To 35', Add	89.95	
For Elevated Installation >35' To 40', Add	112.44	
For Elevated Installation >40', Add	123.68	
26 05 33 13-0433 EA 6" Rigid Galvanized Steel (RGS)/Intermediate Metal Conduit (IMC) Deflection Expansion Fitting .....	3,116.76	99.79
For Work In Restricted Working Space, Add	74.89	
For Elevated Installation >10' To 15', Add	24.96	
For Elevated Installation >15' To 20', Add	49.92	
For Elevated Installation >20' To 25', Add	62.41	
For Elevated Installation >25' To 30', Add	87.37	
For Elevated Installation >30' To 35', Add	99.85	
For Elevated Installation >35' To 40', Add	124.81	
For Elevated Installation >40', Add	137.29	
<b>26 05 33 13-0434 Rigid Galvanized Steel (RGS) Conduit Bonding Jumpers</b> <small>(26 05 33 13-0060)</small>		
26 05 33 13-0435 EA 1/2" To 3/4" Conduit, 14" Bonding Jumper .....	63.87	11.24
For Work In Restricted Working Space, Add	8.44	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.84	
For Elevated Installation >30' To 35', Add	11.25	
For Elevated Installation >35' To 40', Add	14.06	
For Elevated Installation >40', Add	15.47	
26 05 33 13-0436 EA 1" To 1-1/4" Conduit, 14" Bonding Jumper .....	74.50	14.06
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
26 05 33 13-0437 EA 1-1/2" To 2" Conduit, 14" Bonding Jumper .....	91.45	16.86
For Work In Restricted Working Space, Add	12.65	
For Elevated Installation >10' To 15', Add	4.22	
For Elevated Installation >15' To 20', Add	8.43	
For Elevated Installation >20' To 25', Add	10.54	
For Elevated Installation >25' To 30', Add	14.76	
For Elevated Installation >30' To 35', Add	16.86	
For Elevated Installation >35' To 40', Add	21.08	
For Elevated Installation >40', Add	23.19	
26 05 33 13-0438 EA 2-1/2" To 3" Conduit, 14" Bonding Jumper .....	127.45	22.49
For Work In Restricted Working Space, Add	16.87	
For Elevated Installation >10' To 15', Add	5.62	
For Elevated Installation >15' To 20', Add	11.24	
For Elevated Installation >20' To 25', Add	14.06	
For Elevated Installation >25' To 30', Add	19.68	
For Elevated Installation >30' To 35', Add	22.49	
For Elevated Installation >35' To 40', Add	28.11	
For Elevated Installation >40', Add	30.92	
26 05 33 13-0439 EA 3-1/2" To 4" Conduit, 14" Bonding Jumper .....	192.81	33.73
For Work In Restricted Working Space, Add	25.30	
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.09	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.74	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.39	
26 05 33 13-0440 EA 5" To 6" Conduit, 14" Bonding Jumper .....	318.54	44.98
For Work In Restricted Working Space, Add	33.74	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.36	
For Elevated Installation >30' To 35', Add	44.98	
For Elevated Installation >35' To 40', Add	56.23	
For Elevated Installation >40', Add	61.85	
26 05 33 13-0441 EA 1/2" To 3/4" Conduit, 24" Bonding Jumper .....	69.99	11.24
For Work In Restricted Working Space, Add	8.44	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.84	
For Elevated Installation >30' To 35', Add	11.25	
For Elevated Installation >35' To 40', Add	14.06	
For Elevated Installation >40', Add	15.47	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0442	EA	1" To 1-1/4" Conduit, 24" Bonding Jumper	82.23	14.06
			<i>For Work In Restricted Working Space, Add</i>	10.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
			<i>For Elevated Installation &gt;40', Add</i>	19.33	
26 05 33	13-0443	EA	1-1/2" To 2" Conduit, 24" Bonding Jumper	98.53	16.86
			<i>For Work In Restricted Working Space, Add</i>	12.65	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
			<i>For Elevated Installation &gt;40', Add</i>	23.19	
26 05 33	13-0444	EA	2-1/2" To 3" Conduit, 24" Bonding Jumper	136.85	22.49
			<i>For Work In Restricted Working Space, Add</i>	16.87	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.24	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.11	
			<i>For Elevated Installation &gt;40', Add</i>	30.92	
26 05 33	13-0445	EA	3-1/2" To 4" Conduit, 24" Bonding Jumper	205.29	33.73
			<i>For Work In Restricted Working Space, Add</i>	25.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.09	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	42.17	
			<i>For Elevated Installation &gt;40', Add</i>	46.39	
26 05 33	13-0446	EA	5" To 6" Conduit, 24" Bonding Jumper	358.79	44.98
			<i>For Work In Restricted Working Space, Add</i>	33.74	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
			<i>For Elevated Installation &gt;40', Add</i>	61.85	
26 05 33	13-0447		<b>Rigid Galvanized Steel (RGS) Sealing Fittings, Vertical/Horizontal</b> <small>(26 05 33 13-0060)</small>		
26 05 33	13-0448	EA	1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	124.12	35.14
			<i>For Work In Restricted Working Space, Add</i>	21.08	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.05	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.57	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	28.11	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	35.14	
			<i>For Elevated Installation &gt;40', Add</i>	38.65	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.08	
26 05 33	13-0449	EA	3/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	147.57	42.16
			<i>For Work In Restricted Working Space, Add</i>	25.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.08	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.73	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	42.17	
			<i>For Elevated Installation &gt;40', Add</i>	46.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.30	
26 05 33	13-0450	EA	1" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal	179.66	49.19
			<i>For Work In Restricted Working Space, Add</i>	29.52	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.84	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.68	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.60	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	34.44	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	39.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	49.20	
			<i>For Elevated Installation &gt;40', Add</i>	54.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0451 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal .....	211.15	56.22
<i>For Work In Restricted Working Space, Add</i>	33.74	
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
<i>For Elevated Installation &gt;40', Add</i>	61.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.74	
26 05 33 13-0452 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal .....	275.08	63.25
<i>For Work In Restricted Working Space, Add</i>	37.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.65	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.30	
<i>For Elevated Installation &gt;20' To 25', Add</i>	31.62	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.27	
<i>For Elevated Installation &gt;30' To 35', Add</i>	50.60	
<i>For Elevated Installation &gt;35' To 40', Add</i>	63.25	
<i>For Elevated Installation &gt;40', Add</i>	69.57	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.95	
26 05 33 13-0453 EA 2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal .....	333.07	70.27
<i>For Work In Restricted Working Space, Add</i>	42.17	
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.06	
<i>For Elevated Installation &gt;15' To 20', Add</i>	28.11	
<i>For Elevated Installation &gt;20' To 25', Add</i>	35.14	
<i>For Elevated Installation &gt;25' To 30', Add</i>	49.19	
<i>For Elevated Installation &gt;30' To 35', Add</i>	56.22	
<i>For Elevated Installation &gt;35' To 40', Add</i>	70.28	
<i>For Elevated Installation &gt;40', Add</i>	77.30	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.17	
26 05 33 13-0454 EA 2-1/2" Rigid Galvanized Steel (RGS) Conduit Sealing Fitting, Vertical/Horizontal .....	467.77	84.33
<i>For Work In Restricted Working Space, Add</i>	50.60	
<i>For Elevated Installation &gt;10' To 15', Add</i>	16.87	
<i>For Elevated Installation &gt;15' To 20', Add</i>	33.73	
<i>For Elevated Installation &gt;20' To 25', Add</i>	42.17	
<i>For Elevated Installation &gt;25' To 30', Add</i>	59.03	
<i>For Elevated Installation &gt;30' To 35', Add</i>	67.46	
<i>For Elevated Installation &gt;35' To 40', Add</i>	84.33	
<i>For Elevated Installation &gt;40', Add</i>	92.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.60	
26 05 33 13-0455 EA 3" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal .....	562.15	98.39
<i>For Work In Restricted Working Space, Add</i>	59.03	
<i>For Elevated Installation &gt;10' To 15', Add</i>	19.68	
<i>For Elevated Installation &gt;15' To 20', Add</i>	39.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	49.19	
<i>For Elevated Installation &gt;25' To 30', Add</i>	68.87	
<i>For Elevated Installation &gt;30' To 35', Add</i>	78.71	
<i>For Elevated Installation &gt;35' To 40', Add</i>	98.39	
<i>For Elevated Installation &gt;40', Add</i>	108.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.03	
26 05 33 13-0456 EA 3-1/2" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal .....	1,278.66	112.45
<i>For Work In Restricted Working Space, Add</i>	67.46	
<i>For Elevated Installation &gt;10' To 15', Add</i>	22.49	
<i>For Elevated Installation &gt;15' To 20', Add</i>	44.98	
<i>For Elevated Installation &gt;20' To 25', Add</i>	56.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	78.71	
<i>For Elevated Installation &gt;30' To 35', Add</i>	89.95	
<i>For Elevated Installation &gt;35' To 40', Add</i>	112.44	
<i>For Elevated Installation &gt;40', Add</i>	123.68	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.46	
26 05 33 13-0457 EA 4" Rigid Galvanized Steel (RGS) Sealing Fitting, Vertical/Horizontal .....	1,472.59	126.49
<i>For Work In Restricted Working Space, Add</i>	75.90	
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.30	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.55	
<i>For Elevated Installation &gt;30' To 35', Add</i>	101.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.50	
<i>For Elevated Installation &gt;40', Add</i>	139.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.90	
<b>26 05 33 13-0458 Rigid Galvanized Steel (RGS) Threaded Couplings (26 05 33 13-0060)</b>		
26 05 33 13-0459 EA 1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	18.25	8.44
<i>For Work In Restricted Working Space, Add</i>	5.06	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.69	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.37	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.90	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.43	
<i>For Elevated Installation &gt;40', Add</i>	9.27	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0460 EA 3/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	25.63	11.94
For Work In Restricted Working Space, Add	7.17	
For Elevated Installation >10' To 15', Add	2.39	
For Elevated Installation >15' To 20', Add	4.78	
For Elevated Installation >20' To 25', Add	5.98	
For Elevated Installation >25' To 30', Add	8.37	
For Elevated Installation >30' To 35', Add	9.56	
For Elevated Installation >35' To 40', Add	11.95	
For Elevated Installation >40', Add	13.15	
26 05 33 13-0461 EA 1" Rigid Galvanized Steel (RGS) Threaded Coupling.....	33.57	15.46
For Work In Restricted Working Space, Add	9.28	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.37	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.01	
26 05 33 13-0462 EA 1-1/4" Rigid Galvanized Steel (RGS) Threaded Coupling.....	38.48	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
26 05 33 13-0463 EA 1-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	46.34	21.08
For Work In Restricted Working Space, Add	12.65	
For Elevated Installation >10' To 15', Add	4.22	
For Elevated Installation >15' To 20', Add	8.43	
For Elevated Installation >20' To 25', Add	10.54	
For Elevated Installation >25' To 30', Add	14.76	
For Elevated Installation >30' To 35', Add	16.86	
For Elevated Installation >35' To 40', Add	21.08	
For Elevated Installation >40', Add	23.19	
26 05 33 13-0464 EA 2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	54.02	23.90
For Work In Restricted Working Space, Add	14.34	
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.95	
For Elevated Installation >25' To 30', Add	16.73	
For Elevated Installation >30' To 35', Add	19.12	
For Elevated Installation >35' To 40', Add	23.90	
For Elevated Installation >40', Add	26.28	
26 05 33 13-0465 EA 2-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	67.40	26.70
For Work In Restricted Working Space, Add	16.02	
For Elevated Installation >10' To 15', Add	5.34	
For Elevated Installation >15' To 20', Add	10.68	
For Elevated Installation >20' To 25', Add	13.35	
For Elevated Installation >25' To 30', Add	18.69	
For Elevated Installation >30' To 35', Add	21.36	
For Elevated Installation >35' To 40', Add	26.71	
For Elevated Installation >40', Add	29.38	
26 05 33 13-0466 EA 3" Rigid Galvanized Steel (RGS) Threaded Coupling.....	78.63	30.22
For Work In Restricted Working Space, Add	18.13	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.09	
For Elevated Installation >20' To 25', Add	15.11	
For Elevated Installation >25' To 30', Add	21.15	
For Elevated Installation >30' To 35', Add	24.18	
For Elevated Installation >35' To 40', Add	30.22	
For Elevated Installation >40', Add	33.24	
26 05 33 13-0467 EA 3-1/2" Rigid Galvanized Steel (RGS) Threaded Coupling.....	90.64	33.03
For Work In Restricted Working Space, Add	19.82	
For Elevated Installation >10' To 15', Add	6.61	
For Elevated Installation >15' To 20', Add	13.21	
For Elevated Installation >20' To 25', Add	16.52	
For Elevated Installation >25' To 30', Add	23.12	
For Elevated Installation >30' To 35', Add	26.42	
For Elevated Installation >35' To 40', Add	33.03	
For Elevated Installation >40', Add	36.33	
26 05 33 13-0468 EA 4" Threaded Rigid Galvanized Steel (RGS) Coupling.....	95.87	35.14
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	

**26 05 33 13-0469 Rigid Galvanized Steel (RGS) Sealing Locknut** (26 05 33 13-0060)

26 05 33 13-0470 EA 1/2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	4.04	1.40
26 05 33 13-0471 EA 3/4" Rigid Galvanized Steel (RGS) Sealing Locknut.....	5.63	2.10
26 05 33 13-0472 EA 1" Rigid Galvanized Steel (RGS) Sealing Locknut.....	9.35	3.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0473 EA 1-1/4" Rigid Galvanized Steel (RGS) Sealing Locknut .....	13.48	4.92
26 05 33 13-0474 EA 1-1/2" Rigid Galvanized Steel (RGS) Sealing Locknut .....	16.04	5.62
26 05 33 13-0475 EA 2" Rigid Galvanized Steel (RGS) Sealing Locknut.....	18.77	6.32
<b>26 05 33 13-0476 Rigid Galvanized Steel (RGS) Fire Stop Fittings</b> <small>(26 05 33 13-0060)</small>		
26 05 33 13-0477 EA 1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	257.17	17.06
<i>For Work In Restricted Working Space, Add</i>	12.80	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.27	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.53	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.66	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.93	
<i>For Elevated Installation &gt;30' To 35', Add</i>	17.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.33	
<i>For Elevated Installation &gt;40', Add</i>	23.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.80	
26 05 33 13-0478 EA 3/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	261.28	18.70
<i>For Work In Restricted Working Space, Add</i>	14.03	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.68	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.69	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.37	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.70	
<i>For Elevated Installation &gt;35' To 40', Add</i>	23.38	
<i>For Elevated Installation &gt;40', Add</i>	25.72	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.03	
26 05 33 13-0479 EA 1" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	313.75	20.52
<i>For Work In Restricted Working Space, Add</i>	15.36	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.12	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.24	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.80	
<i>For Elevated Installation &gt;25' To 30', Add</i>	17.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	20.48	
<i>For Elevated Installation &gt;35' To 40', Add</i>	25.60	
<i>For Elevated Installation &gt;40', Add</i>	28.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.36	
26 05 33 13-0480 EA 1-1/4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	344.43	22.49
<i>For Work In Restricted Working Space, Add</i>	16.88	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.63	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.25	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.07	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.69	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.51	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.14	
<i>For Elevated Installation &gt;40', Add</i>	30.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.88	
26 05 33 13-0481 EA 1-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	393.03	25.30
<i>For Work In Restricted Working Space, Add</i>	18.98	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.33	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.65	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	22.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	25.30	
<i>For Elevated Installation &gt;35' To 40', Add</i>	31.63	
<i>For Elevated Installation &gt;40', Add</i>	34.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.98	
26 05 33 13-0482 EA 2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	582.59	28.11
<i>For Work In Restricted Working Space, Add</i>	21.09	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.06	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.58	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.61	
<i>For Elevated Installation &gt;30' To 35', Add</i>	28.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	35.16	
<i>For Elevated Installation &gt;40', Add</i>	38.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.09	
26 05 33 13-0483 EA 2-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	670.08	37.53
<i>For Work In Restricted Working Space, Add</i>	28.13	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.38	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.75	
<i>For Elevated Installation &gt;20' To 25', Add</i>	23.44	
<i>For Elevated Installation &gt;25' To 30', Add</i>	32.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	37.50	
<i>For Elevated Installation &gt;35' To 40', Add</i>	46.88	
<i>For Elevated Installation &gt;40', Add</i>	51.57	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.13	
26 05 33 13-0484 EA 3" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	743.39	41.18
<i>For Work In Restricted Working Space, Add</i>	30.91	
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.30	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.61	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.76	
<i>For Elevated Installation &gt;25' To 30', Add</i>	36.06	
<i>For Elevated Installation &gt;30' To 35', Add</i>	41.21	
<i>For Elevated Installation &gt;35' To 40', Add</i>	51.52	
<i>For Elevated Installation &gt;40', Add</i>	56.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.91	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0485 EA 3-1/2" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	864.89	44.98
For Work In Restricted Working Space, Add	33.74	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.12	
For Elevated Installation >25' To 30', Add	39.36	
For Elevated Installation >30' To 35', Add	44.99	
For Elevated Installation >35' To 40', Add	56.24	
For Elevated Installation >40', Add	61.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.74	
26 05 33 13-0486 EA 4" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	974.96	50.60
For Work In Restricted Working Space, Add	37.95	
For Elevated Installation >10' To 15', Add	12.65	
For Elevated Installation >15' To 20', Add	25.30	
For Elevated Installation >20' To 25', Add	31.62	
For Elevated Installation >25' To 30', Add	44.27	
For Elevated Installation >30' To 35', Add	50.60	
For Elevated Installation >35' To 40', Add	63.25	
For Elevated Installation >40', Add	69.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.95	
26 05 33 13-0487 EA 5" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,309.20	56.22
For Work In Restricted Working Space, Add	42.17	
For Elevated Installation >10' To 15', Add	14.06	
For Elevated Installation >15' To 20', Add	28.11	
For Elevated Installation >20' To 25', Add	35.14	
For Elevated Installation >25' To 30', Add	49.19	
For Elevated Installation >30' To 35', Add	56.22	
For Elevated Installation >35' To 40', Add	70.28	
For Elevated Installation >40', Add	77.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.17	
26 05 33 13-0488 EA 6" Rigid Galvanized Steel (RGS) Fire Stop Fitting.....	1,628.83	62.41
For Work In Restricted Working Space, Add	46.80	
For Elevated Installation >10' To 15', Add	15.60	
For Elevated Installation >15' To 20', Add	31.20	
For Elevated Installation >20' To 25', Add	39.00	
For Elevated Installation >25' To 30', Add	54.60	
For Elevated Installation >30' To 35', Add	62.40	
For Elevated Installation >35' To 40', Add	78.01	
For Elevated Installation >40', Add	85.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.80	
<b>26 05 33 13-0489 Rigid Galvanized Steel (RGS) Reducing Bushings (26 05 33 13-0060)</b>		
26 05 33 13-0490 EA 3/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	22.73	10.89
For Work In Restricted Working Space, Add	6.53	
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.62	
For Elevated Installation >30' To 35', Add	8.71	
For Elevated Installation >35' To 40', Add	10.89	
For Elevated Installation >40', Add	11.98	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.53	
26 05 33 13-0491 EA 1" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	24.93	11.59
For Work In Restricted Working Space, Add	6.96	
For Elevated Installation >10' To 15', Add	2.32	
For Elevated Installation >15' To 20', Add	4.64	
For Elevated Installation >20' To 25', Add	5.80	
For Elevated Installation >25' To 30', Add	8.12	
For Elevated Installation >30' To 35', Add	9.28	
For Elevated Installation >35' To 40', Add	11.60	
For Elevated Installation >40', Add	12.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.96	
26 05 33 13-0492 EA 1" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	25.64	11.94
For Work In Restricted Working Space, Add	7.17	
For Elevated Installation >10' To 15', Add	2.39	
For Elevated Installation >15' To 20', Add	4.78	
For Elevated Installation >20' To 25', Add	5.98	
For Elevated Installation >25' To 30', Add	8.37	
For Elevated Installation >30' To 35', Add	9.56	
For Elevated Installation >35' To 40', Add	11.95	
For Elevated Installation >40', Add	13.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.17	
26 05 33 13-0493 EA 1-1/4" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	29.11	12.29
For Work In Restricted Working Space, Add	7.38	
For Elevated Installation >10' To 15', Add	2.46	
For Elevated Installation >15' To 20', Add	4.92	
For Elevated Installation >20' To 25', Add	6.15	
For Elevated Installation >25' To 30', Add	8.61	
For Elevated Installation >30' To 35', Add	9.84	
For Elevated Installation >35' To 40', Add	12.30	
For Elevated Installation >40', Add	13.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0494 EA 1-1/4" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	29.81	12.65
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-0495 EA 1-1/4" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	31.21	13.36
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.01	
26 05 33 13-0496 EA 1-1/2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	33.57	14.06
For Work In Restricted Working Space, Add	8.43	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.84	
For Elevated Installation >30' To 35', Add	11.24	
For Elevated Installation >35' To 40', Add	14.06	
For Elevated Installation >40', Add	15.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.43	
26 05 33 13-0497 EA 1-1/2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	34.28	14.41
For Work In Restricted Working Space, Add	8.65	
For Elevated Installation >10' To 15', Add	2.88	
For Elevated Installation >15' To 20', Add	5.76	
For Elevated Installation >20' To 25', Add	7.21	
For Elevated Installation >25' To 30', Add	10.09	
For Elevated Installation >30' To 35', Add	11.53	
For Elevated Installation >35' To 40', Add	14.41	
For Elevated Installation >40', Add	15.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.65	
26 05 33 13-0498 EA 1-1/2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing.....	35.68	15.11
For Work In Restricted Working Space, Add	9.07	
For Elevated Installation >10' To 15', Add	3.02	
For Elevated Installation >15' To 20', Add	6.04	
For Elevated Installation >20' To 25', Add	7.56	
For Elevated Installation >25' To 30', Add	10.58	
For Elevated Installation >30' To 35', Add	12.09	
For Elevated Installation >35' To 40', Add	15.11	
For Elevated Installation >40', Add	16.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.07	
26 05 33 13-0499 EA 1-1/2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	37.08	15.81
For Work In Restricted Working Space, Add	9.49	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.91	
For Elevated Installation >25' To 30', Add	11.07	
For Elevated Installation >30' To 35', Add	12.65	
For Elevated Installation >35' To 40', Add	15.81	
For Elevated Installation >40', Add	17.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-0500 EA 2" x 1/2" Rigid Galvanized Steel (RGS) Reducing Bushing.....	43.61	15.81
For Work In Restricted Working Space, Add	9.49	
For Elevated Installation >10' To 15', Add	3.16	
For Elevated Installation >15' To 20', Add	6.32	
For Elevated Installation >20' To 25', Add	7.91	
For Elevated Installation >25' To 30', Add	11.07	
For Elevated Installation >30' To 35', Add	12.65	
For Elevated Installation >35' To 40', Add	15.81	
For Elevated Installation >40', Add	17.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.49	
26 05 33 13-0501 EA 2" x 3/4" Rigid Galvanized Steel (RGS) Reducing Bushing.....	44.31	16.16
For Work In Restricted Working Space, Add	9.70	
For Elevated Installation >10' To 15', Add	3.23	
For Elevated Installation >15' To 20', Add	6.46	
For Elevated Installation >20' To 25', Add	8.08	
For Elevated Installation >25' To 30', Add	11.31	
For Elevated Installation >30' To 35', Add	12.93	
For Elevated Installation >35' To 40', Add	16.16	
For Elevated Installation >40', Add	17.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.70	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0502	EA	2" x 1" Rigid Galvanized Steel (RGS) Reducing Bushing .....	45.72	16.86
			<i>For Work In Restricted Working Space, Add</i>	10.12	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.37	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.43	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.81	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.49	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.87	
			<i>For Elevated Installation &gt;40', Add</i>	18.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.12	
26 05 33	13-0503	EA	2" x 1-1/4" Rigid Galvanized Steel (RGS) Reducing Bushing .....	47.13	17.57
			<i>For Work In Restricted Working Space, Add</i>	10.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
			<i>For Elevated Installation &gt;40', Add</i>	19.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-0504	EA	2" x 1-1/2" Rigid Galvanized Steel (RGS) Reducing Bushing .....	50.64	19.33
			<i>For Work In Restricted Working Space, Add</i>	11.60	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.87	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.73	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.66	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	13.53	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	15.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	19.33	
			<i>For Elevated Installation &gt;40', Add</i>	21.26	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.60	
26 05 33	13-0505	EA	2-1/2" x 2" Rigid Galvanized Steel (RGS) Reducing Bushing .....	63.45	22.84
			<i>For Work In Restricted Working Space, Add</i>	13.70	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
			<i>For Elevated Installation &gt;40', Add</i>	25.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33	13-0506		<b>Rigid Galvanized Steel (RGS) Locknuts</b> <small>(26 05 33 13-0060)</small> .....	2.91	1.40
26 05 33	13-0507	EA	1/2" Rigid Galvanized Steel (RGS) Locknuts .....	2.91	1.40
			<i>For Work In Restricted Working Space, Add</i>	0.85	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.28	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	0.56	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	0.71	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	0.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	1.13	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	1.41	
			<i>For Elevated Installation &gt;40', Add</i>	1.55	
26 05 33	13-0508	EA	3/4" Rigid Galvanized Steel (RGS) Locknuts .....	4.34	2.10
			<i>For Work In Restricted Working Space, Add</i>	1.27	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.42	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	0.84	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.06	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	1.48	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	1.69	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	2.11	
			<i>For Elevated Installation &gt;40', Add</i>	2.32	
26 05 33	13-0509	EA	1" Rigid Galvanized Steel (RGS) Locknuts .....	7.22	3.52
			<i>For Work In Restricted Working Space, Add</i>	2.11	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.70	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.40	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	1.76	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	2.46	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	2.81	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	3.51	
			<i>For Elevated Installation &gt;40', Add</i>	3.86	
26 05 33	13-0510	EA	1-1/4" Rigid Galvanized Steel (RGS) Locknuts .....	10.17	4.92
			<i>For Work In Restricted Working Space, Add</i>	2.95	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.98	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.97	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	2.46	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	3.44	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	3.94	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	4.92	
			<i>For Elevated Installation &gt;40', Add</i>	5.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0511 EA 1-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	11.67	5.62
For Work In Restricted Working Space, Add	3.37	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.93	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.62	
For Elevated Installation >40', Add	6.18	
26 05 33 13-0512 EA 2" Rigid Galvanized Steel (RGS) Locknuts.....	13.18	6.32
For Work In Restricted Working Space, Add	3.80	
For Elevated Installation >10' To 15', Add	1.27	
For Elevated Installation >15' To 20', Add	2.53	
For Elevated Installation >20' To 25', Add	3.16	
For Elevated Installation >25' To 30', Add	4.43	
For Elevated Installation >30' To 35', Add	5.06	
For Elevated Installation >35' To 40', Add	6.33	
For Elevated Installation >40', Add	6.96	
26 05 33 13-0513 EA 2-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	18.28	8.44
For Work In Restricted Working Space, Add	5.06	
For Elevated Installation >10' To 15', Add	1.69	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.22	
For Elevated Installation >25' To 30', Add	5.90	
For Elevated Installation >30' To 35', Add	6.74	
For Elevated Installation >35' To 40', Add	8.43	
For Elevated Installation >40', Add	9.27	
26 05 33 13-0514 EA 3" Rigid Galvanized Steel (RGS) Locknuts.....	22.65	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
26 05 33 13-0515 EA 3-1/2" Rigid Galvanized Steel (RGS) Locknuts.....	26.51	11.94
For Work In Restricted Working Space, Add	7.17	
For Elevated Installation >10' To 15', Add	2.39	
For Elevated Installation >15' To 20', Add	4.78	
For Elevated Installation >20' To 25', Add	5.98	
For Elevated Installation >25' To 30', Add	8.37	
For Elevated Installation >30' To 35', Add	9.56	
For Elevated Installation >35' To 40', Add	11.95	
For Elevated Installation >40', Add	13.15	
26 05 33 13-0516 EA 4" Rigid Galvanized Steel (RGS) Locknuts.....	29.70	13.36
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
<b>26 05 33 13-0517 Rigid Galvanized Steel (RGS) Grounding Locknuts</b> (26 05 33 13-0060)		
26 05 33 13-0518 EA 1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	4.12	1.40
For Work In Restricted Working Space, Add	0.85	
For Elevated Installation >10' To 15', Add	0.28	
For Elevated Installation >15' To 20', Add	0.56	
For Elevated Installation >20' To 25', Add	0.71	
For Elevated Installation >25' To 30', Add	0.99	
For Elevated Installation >30' To 35', Add	1.13	
For Elevated Installation >35' To 40', Add	1.41	
For Elevated Installation >40', Add	1.55	
26 05 33 13-0519 EA 3/4" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	5.78	2.10
For Work In Restricted Working Space, Add	1.27	
For Elevated Installation >10' To 15', Add	0.42	
For Elevated Installation >15' To 20', Add	0.84	
For Elevated Installation >20' To 25', Add	1.06	
For Elevated Installation >25' To 30', Add	1.48	
For Elevated Installation >30' To 35', Add	1.69	
For Elevated Installation >35' To 40', Add	2.11	
For Elevated Installation >40', Add	2.32	
26 05 33 13-0520 EA 1" Rigid Galvanized Steel (RGS) Grounding Locknuts.....	9.25	3.52
For Work In Restricted Working Space, Add	2.11	
For Elevated Installation >10' To 15', Add	0.70	
For Elevated Installation >15' To 20', Add	1.40	
For Elevated Installation >20' To 25', Add	1.76	
For Elevated Installation >25' To 30', Add	2.46	
For Elevated Installation >30' To 35', Add	2.81	
For Elevated Installation >35' To 40', Add	3.51	
For Elevated Installation >40', Add	3.86	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0521 EA 1-1/4" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	12.95	4.92
For Work In Restricted Working Space, Add	2.95	
For Elevated Installation >10' To 15', Add	0.98	
For Elevated Installation >15' To 20', Add	1.97	
For Elevated Installation >20' To 25', Add	2.46	
For Elevated Installation >25' To 30', Add	3.44	
For Elevated Installation >30' To 35', Add	3.94	
For Elevated Installation >35' To 40', Add	4.92	
For Elevated Installation >40', Add	5.41	
26 05 33 13-0522 EA 1-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	14.64	5.62
For Work In Restricted Working Space, Add	3.37	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.93	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.62	
For Elevated Installation >40', Add	6.18	
26 05 33 13-0523 EA 2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	17.08	6.32
For Work In Restricted Working Space, Add	3.80	
For Elevated Installation >10' To 15', Add	1.27	
For Elevated Installation >15' To 20', Add	2.53	
For Elevated Installation >20' To 25', Add	3.16	
For Elevated Installation >25' To 30', Add	4.43	
For Elevated Installation >30' To 35', Add	5.06	
For Elevated Installation >35' To 40', Add	6.33	
For Elevated Installation >40', Add	6.96	
26 05 33 13-0524 EA 2-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	25.10	8.44
For Work In Restricted Working Space, Add	5.06	
For Elevated Installation >10' To 15', Add	1.69	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.22	
For Elevated Installation >25' To 30', Add	5.90	
For Elevated Installation >30' To 35', Add	6.74	
For Elevated Installation >35' To 40', Add	8.43	
For Elevated Installation >40', Add	9.27	
26 05 33 13-0525 EA 3" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	31.54	10.54
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
26 05 33 13-0526 EA 3-1/2" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	40.89	11.94
For Work In Restricted Working Space, Add	7.17	
For Elevated Installation >10' To 15', Add	2.39	
For Elevated Installation >15' To 20', Add	4.78	
For Elevated Installation >20' To 25', Add	5.98	
For Elevated Installation >25' To 30', Add	8.37	
For Elevated Installation >30' To 35', Add	9.56	
For Elevated Installation >35' To 40', Add	11.95	
For Elevated Installation >40', Add	13.15	
26 05 33 13-0527 EA 4" Rigid Galvanized Steel (RGS) Grounding Locknuts .....	48.61	13.36
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
<b>26 05 33 13-0528 Rigid Galvanized Steel (RGS) Insulated Ground Bushing (26 05 33 13-0060)</b>		
26 05 33 13-0529 EA 1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	11.69	4.22
For Work In Restricted Working Space, Add	2.53	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.69	
For Elevated Installation >20' To 25', Add	2.11	
For Elevated Installation >25' To 30', Add	2.95	
For Elevated Installation >30' To 35', Add	3.38	
For Elevated Installation >35' To 40', Add	4.22	
For Elevated Installation >40', Add	4.64	
26 05 33 13-0530 EA 3/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing .....	14.77	5.62
For Work In Restricted Working Space, Add	3.37	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.93	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.62	
For Elevated Installation >40', Add	6.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0531 EA 1" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	18.81	7.02
<i>For Work In Restricted Working Space, Add</i>	4.22	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.41	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.81	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.62	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.03	
<i>For Elevated Installation &gt;40', Add</i>	7.73	
26 05 33 13-0532 EA 1-1/4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	27.79	11.24
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.50	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.62	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.87	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.00	
<i>For Elevated Installation &gt;35' To 40', Add</i>	11.25	
<i>For Elevated Installation &gt;40', Add</i>	12.37	
26 05 33 13-0533 EA 1-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	31.30	12.65
<i>For Work In Restricted Working Space, Add</i>	7.59	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.53	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.06	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.33	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.86	
<i>For Elevated Installation &gt;30' To 35', Add</i>	10.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	12.65	
<i>For Elevated Installation &gt;40', Add</i>	13.92	
26 05 33 13-0534 EA 2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	35.47	14.06
<i>For Work In Restricted Working Space, Add</i>	8.43	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.81	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.62	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.84	
<i>For Elevated Installation &gt;30' To 35', Add</i>	11.24	
<i>For Elevated Installation &gt;35' To 40', Add</i>	14.06	
<i>For Elevated Installation &gt;40', Add</i>	15.46	
26 05 33 13-0535 EA 2-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	47.95	16.86
<i>For Work In Restricted Working Space, Add</i>	10.12	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.37	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.75	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.43	
<i>For Elevated Installation &gt;25' To 30', Add</i>	11.81	
<i>For Elevated Installation &gt;30' To 35', Add</i>	13.49	
<i>For Elevated Installation &gt;35' To 40', Add</i>	16.87	
<i>For Elevated Installation &gt;40', Add</i>	18.55	
26 05 33 13-0536 EA 3" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	58.45	21.08
<i>For Work In Restricted Working Space, Add</i>	12.65	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
<i>For Elevated Installation &gt;40', Add</i>	23.19	
26 05 33 13-0537 EA 3-1/2" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	73.05	28.11
<i>For Work In Restricted Working Space, Add</i>	16.87	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.24	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.11	
<i>For Elevated Installation &gt;40', Add</i>	30.92	
26 05 33 13-0538 EA 4" Rigid Galvanized Steel (RGS) Insulated Ground Bushing.....	89.30	35.14
<i>For Work In Restricted Working Space, Add</i>	21.08	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.05	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	28.11	
<i>For Elevated Installation &gt;35' To 40', Add</i>	35.14	
<i>For Elevated Installation &gt;40', Add</i>	38.65	
<b>26 05 33 13-0539 Rigid Galvanized Steel (RGS) Threadless Compression Connectors</b> <small>(26 05 33 13-0060)</small>		
26 05 33 13-0540 EA 1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors.....	28.88	12.65
<i>For Work In Restricted Working Space, Add</i>	7.59	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.53	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.06	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.33	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.86	
<i>For Elevated Installation &gt;30' To 35', Add</i>	10.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	12.65	
<i>For Elevated Installation &gt;40', Add</i>	13.92	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0541 EA 3/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	33.88	14.06
For Work In Restricted Working Space, Add	8.43	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.84	
For Elevated Installation >30' To 35', Add	11.24	
For Elevated Installation >35' To 40', Add	14.06	
For Elevated Installation >40', Add	15.46	
26 05 33 13-0542 EA 1" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	44.15	17.57
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
26 05 33 13-0543 EA 1-1/4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	59.11	21.08
For Work In Restricted Working Space, Add	12.65	
For Elevated Installation >10' To 15', Add	4.22	
For Elevated Installation >15' To 20', Add	8.43	
For Elevated Installation >20' To 25', Add	10.54	
For Elevated Installation >25' To 30', Add	14.76	
For Elevated Installation >30' To 35', Add	16.86	
For Elevated Installation >35' To 40', Add	21.08	
For Elevated Installation >40', Add	23.19	
26 05 33 13-0544 EA 1-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	79.69	28.11
For Work In Restricted Working Space, Add	16.87	
For Elevated Installation >10' To 15', Add	5.62	
For Elevated Installation >15' To 20', Add	11.24	
For Elevated Installation >20' To 25', Add	14.06	
For Elevated Installation >25' To 30', Add	19.68	
For Elevated Installation >30' To 35', Add	22.49	
For Elevated Installation >35' To 40', Add	28.11	
For Elevated Installation >40', Add	30.92	
26 05 33 13-0545 EA 2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	115.31	35.14
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
26 05 33 13-0546 EA 2-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	188.23	42.16
For Work In Restricted Working Space, Add	25.30	
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
26 05 33 13-0547 EA 3" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	236.13	49.19
For Work In Restricted Working Space, Add	29.52	
For Elevated Installation >10' To 15', Add	9.84	
For Elevated Installation >15' To 20', Add	19.68	
For Elevated Installation >20' To 25', Add	24.60	
For Elevated Installation >25' To 30', Add	34.44	
For Elevated Installation >30' To 35', Add	39.36	
For Elevated Installation >35' To 40', Add	49.20	
For Elevated Installation >40', Add	54.11	
26 05 33 13-0548 EA 3-1/2" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	299.47	59.73
For Work In Restricted Working Space, Add	35.84	
For Elevated Installation >10' To 15', Add	11.95	
For Elevated Installation >15' To 20', Add	23.89	
For Elevated Installation >20' To 25', Add	29.87	
For Elevated Installation >25' To 30', Add	41.81	
For Elevated Installation >30' To 35', Add	47.79	
For Elevated Installation >35' To 40', Add	59.74	
For Elevated Installation >40', Add	65.71	
26 05 33 13-0549 EA 4" Rigid Galvanized Steel (RGS) Threadless Compression Connectors .....	360.91	70.27
For Work In Restricted Working Space, Add	42.17	
For Elevated Installation >10' To 15', Add	14.06	
For Elevated Installation >15' To 20', Add	28.11	
For Elevated Installation >20' To 25', Add	35.14	
For Elevated Installation >25' To 30', Add	49.19	
For Elevated Installation >30' To 35', Add	56.22	
For Elevated Installation >35' To 40', Add	70.28	
For Elevated Installation >40', Add	77.30	

26 05 33 13-0550 Rigid Galvanized Steel (RGS) Compression Coupling (26 05 33 13-0060)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0551 EA 1/2" Rigid Galvanized Steel (RGS) Compression Coupling .....	40.92	17.57
<i>For Work In Restricted Working Space, Add</i>	10.54	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
<i>For Elevated Installation &gt;40', Add</i>	19.33	
26 05 33 13-0552 EA 3/4" Rigid Galvanized Steel (RGS) Compression Coupling .....	51.43	21.08
<i>For Work In Restricted Working Space, Add</i>	12.65	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
<i>For Elevated Installation &gt;40', Add</i>	23.19	
26 05 33 13-0553 EA 1" Rigid Galvanized Steel (RGS) Compression Coupling .....	72.38	28.11
<i>For Work In Restricted Working Space, Add</i>	16.87	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.24	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.11	
<i>For Elevated Installation &gt;40', Add</i>	30.92	
26 05 33 13-0554 EA 1-1/4" Rigid Galvanized Steel (RGS) Compression Coupling .....	94.19	35.14
<i>For Work In Restricted Working Space, Add</i>	21.08	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.05	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	28.11	
<i>For Elevated Installation &gt;35' To 40', Add</i>	35.14	
<i>For Elevated Installation &gt;40', Add</i>	38.65	
26 05 33 13-0555 EA 1-1/2" Rigid Galvanized Steel (RGS) Compression Coupling .....	115.47	42.16
<i>For Work In Restricted Working Space, Add</i>	25.30	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.43	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.87	
<i>For Elevated Installation &gt;20' To 25', Add</i>	21.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	29.52	
<i>For Elevated Installation &gt;30' To 35', Add</i>	33.73	
<i>For Elevated Installation &gt;35' To 40', Add</i>	42.17	
<i>For Elevated Installation &gt;40', Add</i>	46.38	
26 05 33 13-0556 EA 2" Rigid Galvanized Steel (RGS) Compression Coupling .....	166.50	49.19
<i>For Work In Restricted Working Space, Add</i>	29.52	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.84	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.68	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.60	
<i>For Elevated Installation &gt;25' To 30', Add</i>	34.44	
<i>For Elevated Installation &gt;30' To 35', Add</i>	39.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	49.20	
<i>For Elevated Installation &gt;40', Add</i>	54.11	
26 05 33 13-0557 EA 2-1/2" Rigid Galvanized Steel (RGS) Compression Coupling .....	255.92	56.22
<i>For Work In Restricted Working Space, Add</i>	33.74	
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
<i>For Elevated Installation &gt;40', Add</i>	61.85	
26 05 33 13-0558 EA 3" Rigid Galvanized Steel (RGS) Compression Coupling .....	287.06	48.49
<i>For Work In Restricted Working Space, Add</i>	29.09	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.70	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.40	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	33.94	
<i>For Elevated Installation &gt;30' To 35', Add</i>	38.79	
<i>For Elevated Installation &gt;35' To 40', Add</i>	48.49	
<i>For Elevated Installation &gt;40', Add</i>	53.34	
26 05 33 13-0559 EA 3-1/2" Rigid Galvanized Steel (RGS) Compression Coupling .....	397.81	73.79
<i>For Work In Restricted Working Space, Add</i>	44.27	
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.76	
<i>For Elevated Installation &gt;15' To 20', Add</i>	29.52	
<i>For Elevated Installation &gt;20' To 25', Add</i>	36.90	
<i>For Elevated Installation &gt;25' To 30', Add</i>	51.65	
<i>For Elevated Installation &gt;30' To 35', Add</i>	59.03	
<i>For Elevated Installation &gt;35' To 40', Add</i>	73.79	
<i>For Elevated Installation &gt;40', Add</i>	81.17	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0560	EA	4" Rigid Galvanized Steel (RGS) Compression Coupling ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	488.84 50.60 16.87 33.73 42.17 59.03 67.46 84.33 92.76	84.33
<b>26 05 33 13-0561 Zinc Plated Steel Snap-in Knock Out Seal <small>(26 05 33 13-0060)</small></b>					
26 05 33	13-0562	EA	1/2" Zinc Plated Steel Snap-in Knock Out Seal ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	7.30 2.11 0.70 1.40 1.76 2.46 2.81 3.51 3.86	3.52
26 05 33	13-0563	EA	3/4" Zinc Plated Steel Snap-in Knock Out Seal ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	8.80 2.53 0.84 1.69 2.11 2.95 3.38 4.22 4.64	4.22
26 05 33	13-0564	EA	1" Zinc Plated Steel Snap-in Knock Out Seal ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	10.41 2.95 0.98 1.97 2.46 3.44 3.94 4.92 5.41	4.92
26 05 33	13-0565	EA	1-1/4" Zinc Plated Steel Snap-in Knock Out Seal ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	13.40 3.80 1.27 2.53 3.16 4.43 5.06 6.33 6.96	6.32
26 05 33	13-0566	EA	1-1/2" Zinc Plated Steel Snap-in Knock Out Seal ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	15.11 4.22 1.41 2.81 3.52 4.92 5.62 7.03 7.73	7.02
26 05 33	13-0567	EA	2" Zinc Plated Steel Snap-in Knock Out Seal ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	18.33 5.06 1.69 3.37 4.22 5.90 6.74 8.43 9.27	8.44
<b>26 05 33 13-0568 Zinc Plated Steel 3-Piece Knock Out Seal <small>(26 05 33 13-0060)</small></b>					
26 05 33	13-0569	EA	1/2" Zinc Plated Steel 3-Piece Knock Out Seal ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i>	8.67 2.11 0.70 1.40 1.76 2.46 2.81 3.51 3.86	3.52





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0570 EA 3/4" Zinc Plated Steel 3-Piece Knock Out Seal .....10.36		4.22
<i>For Work In Restricted Working Space, Add</i>	2.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.84	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.69	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.38	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.22	
<i>For Elevated Installation &gt;40', Add</i>	4.64	
26 05 33 13-0571 EA 1" Zinc Plated Steel 3-Piece Knock Out Seal .....12.49		4.92
<i>For Work In Restricted Working Space, Add</i>	2.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.98	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.97	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.46	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.44	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.94	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.92	
<i>For Elevated Installation &gt;40', Add</i>	5.41	
26 05 33 13-0572 EA 1-1/4" Zinc Plated Steel 3-Piece Knock Out Seal .....16.06		6.32
<i>For Work In Restricted Working Space, Add</i>	3.80	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.27	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.53	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.43	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.33	
<i>For Elevated Installation &gt;40', Add</i>	6.96	
26 05 33 13-0573 EA 1-1/2" Zinc Plated Steel 3-Piece Knock Out Seal .....19.50		7.02
<i>For Work In Restricted Working Space, Add</i>	4.22	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.41	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.81	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.62	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.03	
<i>For Elevated Installation &gt;40', Add</i>	7.73	
26 05 33 13-0574 EA 2" Zinc Plated Steel 3-Piece Knock Out Seal .....23.56		8.44
<i>For Work In Restricted Working Space, Add</i>	5.06	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.69	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.37	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.90	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.43	
<i>For Elevated Installation &gt;40', Add</i>	9.27	
26 05 33 13-0575 EA 2-1/2" Zinc Plated Steel 3-Piece Knock Out Seal .....28.96		10.54
<i>For Work In Restricted Working Space, Add</i>	6.32	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.27	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.38	
<i>For Elevated Installation &gt;30' To 35', Add</i>	8.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	10.54	
<i>For Elevated Installation &gt;40', Add</i>	11.59	
26 05 33 13-0576 EA 3" Zinc Plated Steel 3-Piece Knock Out Seal .....33.74		11.94
<i>For Work In Restricted Working Space, Add</i>	7.17	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.39	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.78	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.98	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.37	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.56	
<i>For Elevated Installation &gt;35' To 40', Add</i>	11.95	
<i>For Elevated Installation &gt;40', Add</i>	13.15	
26 05 33 13-0577 EA 3-1/2" Zinc Plated Steel 3-Piece Knock Out Seal .....40.56		13.36
<i>For Work In Restricted Working Space, Add</i>	8.01	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.67	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.34	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.35	
<i>For Elevated Installation &gt;30' To 35', Add</i>	10.68	
<i>For Elevated Installation &gt;35' To 40', Add</i>	13.35	
<i>For Elevated Installation &gt;40', Add</i>	14.69	
26 05 33 13-0578 EA 4" Zinc Plated Steel 3-Piece Knock Out Seal .....47.30		14.76
<i>For Work In Restricted Working Space, Add</i>	8.86	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.95	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.90	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.38	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.33	
<i>For Elevated Installation &gt;30' To 35', Add</i>	11.81	
<i>For Elevated Installation &gt;35' To 40', Add</i>	14.76	
<i>For Elevated Installation &gt;40', Add</i>	16.24	

26 05 33 13-0579 Rigid Galvanized Steel (RGS) Chase Nipples (26 05 33 13-0060)

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0580	EA	1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	17.28	8.44
			<i>For Work In Restricted Working Space, Add</i>	5.06	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.69	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.37	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.22	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.43	
			<i>For Elevated Installation &gt;40', Add</i>	9.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33	13-0581	EA	3/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	20.39	9.84
			<i>For Work In Restricted Working Space, Add</i>	5.90	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.97	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.94	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.92	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.87	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.84	
			<i>For Elevated Installation &gt;40', Add</i>	10.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.90	
26 05 33	13-0582	EA	1" Rigid Galvanized Steel (RGS) Chase Nipple.....	25.44	11.94
			<i>For Work In Restricted Working Space, Add</i>	7.17	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.39	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.78	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.98	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.37	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.56	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.95	
			<i>For Elevated Installation &gt;40', Add</i>	13.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.17	
26 05 33	13-0583	EA	1-1/4" Rigid Galvanized Steel (RGS) Chase Nipple.....	30.78	14.06
			<i>For Work In Restricted Working Space, Add</i>	8.43	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.84	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.24	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	14.06	
			<i>For Elevated Installation &gt;40', Add</i>	15.46	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.43	
26 05 33	13-0584	EA	1-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	38.58	17.57
			<i>For Work In Restricted Working Space, Add</i>	10.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
			<i>For Elevated Installation &gt;40', Add</i>	19.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-0585	EA	2" Rigid Galvanized Steel (RGS) Chase Nipple.....	47.74	21.08
			<i>For Work In Restricted Working Space, Add</i>	12.65	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
			<i>For Elevated Installation &gt;40', Add</i>	23.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.65	
26 05 33	13-0586	EA	2-1/2" Rigid Galvanized Steel (RGS) Chase Nipple.....	59.80	24.60
			<i>For Work In Restricted Working Space, Add</i>	14.76	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.84	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.30	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.22	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	24.60	
			<i>For Elevated Installation &gt;40', Add</i>	27.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.76	
26 05 33	13-0587	EA	3" Rigid Galvanized Steel (RGS) Chase Nipple.....	67.11	28.11
			<i>For Work In Restricted Working Space, Add</i>	16.87	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.24	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.11	
			<i>For Elevated Installation &gt;40', Add</i>	30.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0588 EA 3-1/2" Rigid Galvanized Steel (RGS) Chase Nipple .....	82.50	31.62
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.98	
26 05 33 13-0589 EA 4" Rigid Galvanized Steel (RGS) Chase Nipple.....	110.61	35.14
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
<b>26 05 33 13-0590 Rigid Galvanized Steel (RGS) Pulling Elbow</b> <small>(26 05 33 13-0060)</small>		
26 05 33 13-0591 EA 1/2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	32.62	12.65
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
26 05 33 13-0592 EA 3/4" Rigid Galvanized Steel (RGS) Pulling Elbow.....	37.92	14.76
For Work In Restricted Working Space, Add	8.86	
For Elevated Installation >10' To 15', Add	2.95	
For Elevated Installation >15' To 20', Add	5.90	
For Elevated Installation >20' To 25', Add	7.38	
For Elevated Installation >25' To 30', Add	10.33	
For Elevated Installation >30' To 35', Add	11.81	
For Elevated Installation >35' To 40', Add	14.76	
For Elevated Installation >40', Add	16.24	
26 05 33 13-0593 EA 1" Rigid Galvanized Steel (RGS) Pulling Elbow.....	47.68	16.86
For Work In Restricted Working Space, Add	10.12	
For Elevated Installation >10' To 15', Add	3.37	
For Elevated Installation >15' To 20', Add	6.75	
For Elevated Installation >20' To 25', Add	8.43	
For Elevated Installation >25' To 30', Add	11.81	
For Elevated Installation >30' To 35', Add	13.49	
For Elevated Installation >35' To 40', Add	16.87	
For Elevated Installation >40', Add	18.55	
26 05 33 13-0594 EA 1-1/4" Rigid Galvanized Steel (RGS) Pulling Elbow .....	60.94	21.08
For Work In Restricted Working Space, Add	12.65	
For Elevated Installation >10' To 15', Add	4.22	
For Elevated Installation >15' To 20', Add	8.43	
For Elevated Installation >20' To 25', Add	10.54	
For Elevated Installation >25' To 30', Add	14.76	
For Elevated Installation >30' To 35', Add	16.86	
For Elevated Installation >35' To 40', Add	21.08	
For Elevated Installation >40', Add	23.19	
26 05 33 13-0595 EA 1-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow .....	80.41	25.30
For Work In Restricted Working Space, Add	15.18	
For Elevated Installation >10' To 15', Add	5.06	
For Elevated Installation >15' To 20', Add	10.12	
For Elevated Installation >20' To 25', Add	12.65	
For Elevated Installation >25' To 30', Add	17.71	
For Elevated Installation >30' To 35', Add	20.24	
For Elevated Installation >35' To 40', Add	25.30	
For Elevated Installation >40', Add	27.83	
26 05 33 13-0596 EA 2" Rigid Galvanized Steel (RGS) Pulling Elbow.....	106.21	29.52
For Work In Restricted Working Space, Add	17.71	
For Elevated Installation >10' To 15', Add	5.90	
For Elevated Installation >15' To 20', Add	11.81	
For Elevated Installation >20' To 25', Add	14.76	
For Elevated Installation >25' To 30', Add	20.66	
For Elevated Installation >30' To 35', Add	23.61	
For Elevated Installation >35' To 40', Add	29.52	
For Elevated Installation >40', Add	32.47	
26 05 33 13-0597 EA 2-1/2" Rigid Galvanized Steel (RGS) Pulling Elbow .....	145.36	33.73
For Work In Restricted Working Space, Add	20.24	
For Elevated Installation >10' To 15', Add	6.75	
For Elevated Installation >15' To 20', Add	13.49	
For Elevated Installation >20' To 25', Add	16.87	
For Elevated Installation >25' To 30', Add	23.61	
For Elevated Installation >30' To 35', Add	26.99	
For Elevated Installation >35' To 40', Add	33.74	
For Elevated Installation >40', Add	37.11	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0598 EA 3" Rigid Galvanized Steel (RGS) Pulling Elbow.....	249.34	42.16
For Work In Restricted Working Space, Add	25.30	
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
<b>26 05 33 13-0599 Electrical Metallic Tubing (EMT) Thinwall Conduit</b> <small>(26 05 33 13-0059)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
<b>26 05 33 13-0600 Electrical Metallic Tubing (EMT) Thinwall Conduit</b> <small>(26 05 33 13-0599)</small>		
Note: Includes field bending conduit up to and including 1".		
26 05 33 13-0601 LF 1/2" Electrical Metallic Tubing (EMT) Conduit.....	7.26	2.53
For >250 To 500, Deduct	-0.05	
For >500 To 1,000, Deduct	-0.39	
For >1,000, Deduct	-0.57	
For Installation In Metal Stud Wall, Add	0.63	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.58	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.95	
For Work In Restricted Working Space, Add	1.90	
For Elevated Installation >10' To 15', Add	0.63	
For Elevated Installation >15' To 20', Add	1.26	
For Elevated Installation >20' To 25', Add	1.58	
For Elevated Installation >25' To 30', Add	2.21	
For Elevated Installation >30' To 35', Add	2.53	
For Elevated Installation >35' To 40', Add	3.16	
For Elevated Installation >40', Add	3.48	
For Factory Applied Color Coating, Add	0.28	
26 05 33 13-0602 LF 3/4" Electrical Metallic Tubing (EMT) Conduit.....	8.49	2.82
For >250 To 500, Deduct	-0.07	
For >500 To 1,000, Deduct	-0.46	
For >1,000, Deduct	-0.67	
For Installation In Metal Stud Wall, Add	0.70	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.76	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.05	
For Work In Restricted Working Space, Add	2.11	
For Elevated Installation >10' To 15', Add	0.70	
For Elevated Installation >15' To 20', Add	1.40	
For Elevated Installation >20' To 25', Add	1.76	
For Elevated Installation >25' To 30', Add	2.46	
For Elevated Installation >30' To 35', Add	2.81	
For Elevated Installation >35' To 40', Add	3.51	
For Elevated Installation >40', Add	3.86	
For Factory Applied Color Coating, Add	0.44	
26 05 33 13-0603 LF 1" Electrical Metallic Tubing (EMT) Conduit.....	10.19	3.10
For >250 To 500, Deduct	-0.12	
For >500 To 1,000, Deduct	-0.57	
For >1,000, Deduct	-0.83	
For Installation In Metal Stud Wall, Add	0.77	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.93	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.16	
For Work In Restricted Working Space, Add	2.32	
For Elevated Installation >10' To 15', Add	0.77	
For Elevated Installation >15' To 20', Add	1.55	
For Elevated Installation >20' To 25', Add	1.93	
For Elevated Installation >25' To 30', Add	2.71	
For Elevated Installation >30' To 35', Add	3.09	
For Elevated Installation >35' To 40', Add	3.87	
For Elevated Installation >40', Add	4.25	
For Factory Applied Color Coating, Add	0.74	
26 05 33 13-0604 LF 1-1/4" Electrical Metallic Tubing (EMT) Conduit.....	12.59	3.49
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.73	
For >1,000, Deduct	-1.04	
For Installation In Metal Stud Wall, Add	0.87	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.18	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.31	
For Work In Restricted Working Space, Add	2.62	
For Elevated Installation >10' To 15', Add	0.87	
For Elevated Installation >15' To 20', Add	1.74	
For Elevated Installation >20' To 25', Add	2.18	
For Elevated Installation >25' To 30', Add	3.05	
For Elevated Installation >30' To 35', Add	3.49	
For Elevated Installation >35' To 40', Add	4.36	
For Elevated Installation >40', Add	4.80	
For Factory Applied Color Coating, Add	1.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0605 LF 1-1/2" Electrical Metallic Tubing (EMT) Conduit .....	14.66	3.94
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.85	
For >1,000, Deduct	-1.22	
For Installation In Metal Stud Wall, Add	0.98	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.46	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.48	
For Work In Restricted Working Space, Add	2.95	
For Elevated Installation >10' To 15', Add	0.98	
For Elevated Installation >15' To 20', Add	1.97	
For Elevated Installation >20' To 25', Add	2.46	
For Elevated Installation >25' To 30', Add	3.44	
For Elevated Installation >30' To 35', Add	3.94	
For Elevated Installation >35' To 40', Add	4.92	
For Elevated Installation >40', Add	5.41	
For Factory Applied Color Coating, Add	1.45	
26 05 33 13-0606 LF 2" Electrical Metallic Tubing (EMT) Conduit.....	16.96	4.50
For >250 To 500, Deduct	-0.29	
For >500 To 1,000, Deduct	-0.99	
For >1,000, Deduct	-1.42	
For Installation In Metal Stud Wall, Add	1.12	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.81	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.69	
For Work In Restricted Working Space, Add	3.37	
For Elevated Installation >10' To 15', Add	1.12	
For Elevated Installation >15' To 20', Add	2.25	
For Elevated Installation >20' To 25', Add	2.81	
For Elevated Installation >25' To 30', Add	3.93	
For Elevated Installation >30' To 35', Add	4.50	
For Elevated Installation >35' To 40', Add	5.62	
For Elevated Installation >40', Add	6.18	
For Factory Applied Color Coating, Add	1.72	
26 05 33 13-0607 LF 2-1/2" Electrical Metallic Tubing (EMT) Conduit .....	21.83	5.34
For >250 To 500, Deduct	-0.42	
For >500 To 1,000, Deduct	-1.30	
For >1,000, Deduct	-1.85	
For Installation In Metal Stud Wall, Add	1.34	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.34	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.00	
For Work In Restricted Working Space, Add	4.01	
For Elevated Installation >10' To 15', Add	1.34	
For Elevated Installation >15' To 20', Add	2.67	
For Elevated Installation >20' To 25', Add	3.34	
For Elevated Installation >25' To 30', Add	4.68	
For Elevated Installation >30' To 35', Add	5.34	
For Elevated Installation >35' To 40', Add	6.68	
For Elevated Installation >40', Add	7.35	
For Factory Applied Color Coating, Add	2.54	
26 05 33 13-0608 LF 3" Electrical Metallic Tubing (EMT) Conduit.....	26.07	6.18
For >250 To 500, Deduct	-0.53	
For >500 To 1,000, Deduct	-1.57	
For >1,000, Deduct	-2.22	
For Installation In Metal Stud Wall, Add	1.55	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.87	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.32	
For Work In Restricted Working Space, Add	4.64	
For Elevated Installation >10' To 15', Add	1.55	
For Elevated Installation >15' To 20', Add	3.09	
For Elevated Installation >20' To 25', Add	3.87	
For Elevated Installation >25' To 30', Add	5.41	
For Elevated Installation >30' To 35', Add	6.18	
For Elevated Installation >35' To 40', Add	7.73	
For Elevated Installation >40', Add	8.50	
For Factory Applied Color Coating, Add	3.18	
26 05 33 13-0609 LF 3-1/2" Electrical Metallic Tubing (EMT) Conduit .....	32.45	7.30
For >250 To 500, Deduct	-0.71	
For >500 To 1,000, Deduct	-1.98	
For >1,000, Deduct	-2.79	
For Installation In Metal Stud Wall, Add	1.83	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.57	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.74	
For Work In Restricted Working Space, Add	5.48	
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.66	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.40	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Factory Applied Color Coating, Add	4.25	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0610 LF 4" Electrical Metallic Tubing (EMT) Conduit.....	42.76	10.71
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-2.54	
For >1,000, Deduct	-3.61	
For Installation In Metal Stud Wall, Add	2.68	
For Installation In Wood Stud Wall (Includes Drilling), Add	6.70	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.02	
For Work In Restricted Working Space, Add	8.04	
For Elevated Installation >10' To 15', Add	2.68	
For Elevated Installation >15' To 20', Add	5.36	
For Elevated Installation >20' To 25', Add	6.70	
For Elevated Installation >25' To 30', Add	9.38	
For Elevated Installation >30' To 35', Add	10.72	
For Elevated Installation >35' To 40', Add	13.40	
For Elevated Installation >40', Add	14.73	
For Factory Applied Color Coating, Add	4.79	
<b>26 05 33 13-0611 Electrical Metallic Tubing (EMT) 90 Degree Elbows (26 05 33 13-0599)</b>		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0612 EA 1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	18.31	6.18
For Work In Restricted Working Space, Add	4.64	
For Elevated Installation >10' To 15', Add	1.55	
For Elevated Installation >15' To 20', Add	3.09	
For Elevated Installation >20' To 25', Add	3.87	
For Elevated Installation >25' To 30', Add	5.41	
For Elevated Installation >30' To 35', Add	6.18	
For Elevated Installation >35' To 40', Add	7.73	
For Elevated Installation >40', Add	8.50	
26 05 33 13-0613 EA 3/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	19.39	6.74
For Work In Restricted Working Space, Add	5.06	
For Elevated Installation >10' To 15', Add	1.69	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.22	
For Elevated Installation >25' To 30', Add	5.90	
For Elevated Installation >30' To 35', Add	6.74	
For Elevated Installation >35' To 40', Add	8.43	
For Elevated Installation >40', Add	9.27	
26 05 33 13-0614 EA 1" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	23.65	7.88
For Work In Restricted Working Space, Add	5.90	
For Elevated Installation >10' To 15', Add	1.97	
For Elevated Installation >15' To 20', Add	3.94	
For Elevated Installation >20' To 25', Add	4.92	
For Elevated Installation >25' To 30', Add	6.89	
For Elevated Installation >30' To 35', Add	7.87	
For Elevated Installation >35' To 40', Add	9.84	
For Elevated Installation >40', Add	10.82	
26 05 33 13-0615 EA 1-1/4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	26.02	8.44
For Work In Restricted Working Space, Add	6.32	
For Elevated Installation >10' To 15', Add	2.11	
For Elevated Installation >15' To 20', Add	4.22	
For Elevated Installation >20' To 25', Add	5.27	
For Elevated Installation >25' To 30', Add	7.38	
For Elevated Installation >30' To 35', Add	8.43	
For Elevated Installation >35' To 40', Add	10.54	
For Elevated Installation >40', Add	11.59	
26 05 33 13-0616 EA 1-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	30.85	10.12
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
26 05 33 13-0617 EA 2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	40.53	12.93
For Work In Restricted Working Space, Add	9.70	
For Elevated Installation >10' To 15', Add	3.23	
For Elevated Installation >15' To 20', Add	6.46	
For Elevated Installation >20' To 25', Add	8.08	
For Elevated Installation >25' To 30', Add	11.31	
For Elevated Installation >30' To 35', Add	12.93	
For Elevated Installation >35' To 40', Add	16.16	
For Elevated Installation >40', Add	17.78	
26 05 33 13-0618 EA 2-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	54.67	14.62
For Work In Restricted Working Space, Add	10.96	
For Elevated Installation >10' To 15', Add	3.65	
For Elevated Installation >15' To 20', Add	7.31	
For Elevated Installation >20' To 25', Add	9.14	
For Elevated Installation >25' To 30', Add	12.79	
For Elevated Installation >30' To 35', Add	14.62	
For Elevated Installation >35' To 40', Add	18.27	
For Elevated Installation >40', Add	20.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0619 EA 3" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	70.04	16.30
<i>For Work In Restricted Working Space, Add</i>	12.23	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.08	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.15	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.19	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.27	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.30	
<i>For Elevated Installation &gt;35' To 40', Add</i>	20.38	
<i>For Elevated Installation &gt;40', Add</i>	22.42	
26 05 33 13-0620 EA 3-1/2" Electrical Metallic Tubing (EMT) 90 Degree Elbow .....	79.62	17.99
<i>For Work In Restricted Working Space, Add</i>	13.49	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.50	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.00	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.74	
<i>For Elevated Installation &gt;30' To 35', Add</i>	17.99	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.49	
<i>For Elevated Installation &gt;40', Add</i>	24.74	
26 05 33 13-0621 EA 4" Electrical Metallic Tubing (EMT) 90 Degree Elbow.....	164.29	46.88
<i>For Work In Restricted Working Space, Add</i>	35.16	
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.72	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.44	
<i>For Elevated Installation &gt;20' To 25', Add</i>	29.30	
<i>For Elevated Installation &gt;25' To 30', Add</i>	41.02	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.88	
<i>For Elevated Installation &gt;35' To 40', Add</i>	58.61	
<i>For Elevated Installation &gt;40', Add</i>	64.47	
<b>26 05 33 13-0622 Electrical Metallic Tubing (EMT) 45 Degree Elbows</b> (26 05 33 13-0599)		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0623 EA 1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	18.00	6.18
<i>For Work In Restricted Working Space, Add</i>	4.64	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.55	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.09	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.87	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.41	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.18	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.73	
<i>For Elevated Installation &gt;40', Add</i>	8.50	
26 05 33 13-0624 EA 3/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	19.57	6.74
<i>For Work In Restricted Working Space, Add</i>	5.06	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.69	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.37	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.90	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.43	
<i>For Elevated Installation &gt;40', Add</i>	9.27	
26 05 33 13-0625 EA 1" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	24.05	7.88
<i>For Work In Restricted Working Space, Add</i>	5.90	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.97	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.94	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.92	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.87	
<i>For Elevated Installation &gt;35' To 40', Add</i>	9.84	
<i>For Elevated Installation &gt;40', Add</i>	10.82	
26 05 33 13-0626 EA 1-1/4" Electrical Metallic Tubing (EMT) 45 Degree Elbow .....	26.77	8.44
<i>For Work In Restricted Working Space, Add</i>	6.32	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.27	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.38	
<i>For Elevated Installation &gt;30' To 35', Add</i>	8.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	10.54	
<i>For Elevated Installation &gt;40', Add</i>	11.59	
26 05 33 13-0627 EA 1-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow .....	31.81	10.12
<i>For Work In Restricted Working Space, Add</i>	7.59	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.53	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.06	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.33	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.86	
<i>For Elevated Installation &gt;30' To 35', Add</i>	10.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	12.65	
<i>For Elevated Installation &gt;40', Add</i>	13.92	
26 05 33 13-0628 EA 2" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	40.22	12.93
<i>For Work In Restricted Working Space, Add</i>	9.70	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.23	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.46	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	11.31	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.93	
<i>For Elevated Installation &gt;35' To 40', Add</i>	16.16	
<i>For Elevated Installation &gt;40', Add</i>	17.78	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0629 EA 2-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow .....	57.45	14.62
For Work In Restricted Working Space, Add	10.96	
For Elevated Installation >10' To 15', Add	3.65	
For Elevated Installation >15' To 20', Add	7.31	
For Elevated Installation >20' To 25', Add	9.14	
For Elevated Installation >25' To 30', Add	12.79	
For Elevated Installation >30' To 35', Add	14.62	
For Elevated Installation >35' To 40', Add	18.27	
For Elevated Installation >40', Add	20.10	
26 05 33 13-0630 EA 3" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	72.25	16.30
For Work In Restricted Working Space, Add	12.23	
For Elevated Installation >10' To 15', Add	4.08	
For Elevated Installation >15' To 20', Add	8.15	
For Elevated Installation >20' To 25', Add	10.19	
For Elevated Installation >25' To 30', Add	14.27	
For Elevated Installation >30' To 35', Add	16.30	
For Elevated Installation >35' To 40', Add	20.38	
For Elevated Installation >40', Add	22.42	
26 05 33 13-0631 EA 3-1/2" Electrical Metallic Tubing (EMT) 45 Degree Elbow .....	85.61	17.99
For Work In Restricted Working Space, Add	13.49	
For Elevated Installation >10' To 15', Add	4.50	
For Elevated Installation >15' To 20', Add	9.00	
For Elevated Installation >20' To 25', Add	11.25	
For Elevated Installation >25' To 30', Add	15.74	
For Elevated Installation >30' To 35', Add	17.99	
For Elevated Installation >35' To 40', Add	22.49	
For Elevated Installation >40', Add	24.74	
26 05 33 13-0632 EA 4" Electrical Metallic Tubing (EMT) 45 Degree Elbow.....	160.10	46.88
For Work In Restricted Working Space, Add	35.16	
For Elevated Installation >10' To 15', Add	11.72	
For Elevated Installation >15' To 20', Add	23.44	
For Elevated Installation >20' To 25', Add	29.30	
For Elevated Installation >25' To 30', Add	41.02	
For Elevated Installation >30' To 35', Add	46.88	
For Elevated Installation >35' To 40', Add	58.61	
For Elevated Installation >40', Add	64.47	
<b>26 05 33 13-0633 Electrical Metallic Tubing (EMT) Set Screw Couplings (26 05 33 13-0599)</b>		
26 05 33 13-0634 EA 1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	7.35	3.38
For Work In Restricted Working Space, Add	2.11	
For Elevated Installation >10' To 15', Add	0.70	
For Elevated Installation >15' To 20', Add	1.40	
For Elevated Installation >20' To 25', Add	1.76	
For Elevated Installation >25' To 30', Add	2.46	
For Elevated Installation >30' To 35', Add	2.81	
For Elevated Installation >35' To 40', Add	3.51	
For Elevated Installation >40', Add	3.86	
26 05 33 13-0635 EA 3/4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	8.91	3.38
For Work In Restricted Working Space, Add	2.53	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.69	
For Elevated Installation >20' To 25', Add	2.11	
For Elevated Installation >25' To 30', Add	2.95	
For Elevated Installation >30' To 35', Add	3.37	
For Elevated Installation >35' To 40', Add	4.22	
For Elevated Installation >40', Add	4.64	
26 05 33 13-0636 EA 1" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	10.57	3.94
For Work In Restricted Working Space, Add	2.95	
For Elevated Installation >10' To 15', Add	0.98	
For Elevated Installation >15' To 20', Add	1.97	
For Elevated Installation >20' To 25', Add	2.46	
For Elevated Installation >25' To 30', Add	3.44	
For Elevated Installation >30' To 35', Add	3.94	
For Elevated Installation >35' To 40', Add	4.92	
For Elevated Installation >40', Add	5.41	
26 05 33 13-0637 EA 1-1/4" Electrical Metallic Tubing (EMT) Set Screw Coupling .....	14.25	5.06
For Work In Restricted Working Space, Add	3.80	
For Elevated Installation >10' To 15', Add	1.27	
For Elevated Installation >15' To 20', Add	2.53	
For Elevated Installation >20' To 25', Add	3.16	
For Elevated Installation >25' To 30', Add	4.43	
For Elevated Installation >30' To 35', Add	5.06	
For Elevated Installation >35' To 40', Add	6.33	
For Elevated Installation >40', Add	6.96	
26 05 33 13-0638 EA 1-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling .....	17.57	6.18
For Work In Restricted Working Space, Add	4.64	
For Elevated Installation >10' To 15', Add	1.55	
For Elevated Installation >15' To 20', Add	3.09	
For Elevated Installation >20' To 25', Add	3.87	
For Elevated Installation >25' To 30', Add	5.41	
For Elevated Installation >30' To 35', Add	6.18	
For Elevated Installation >35' To 40', Add	7.73	
For Elevated Installation >40', Add	8.50	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0639 EA 2" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	23.90	8.44
<i>For Work In Restricted Working Space, Add</i>	6.32	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.27	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.38	
<i>For Elevated Installation &gt;30' To 35', Add</i>	8.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	10.54	
<i>For Elevated Installation &gt;40', Add</i>	11.59	
26 05 33 13-0640 EA 2-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling .....	33.05	11.24
<i>For Work In Restricted Working Space, Add</i>	8.44	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.81	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.62	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.84	
<i>For Elevated Installation &gt;30' To 35', Add</i>	11.25	
<i>For Elevated Installation &gt;35' To 40', Add</i>	14.06	
<i>For Elevated Installation &gt;40', Add</i>	15.47	
26 05 33 13-0641 EA 3" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	42.80	12.93
<i>For Work In Restricted Working Space, Add</i>	10.54	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
<i>For Elevated Installation &gt;40', Add</i>	19.33	
26 05 33 13-0642 EA 3-1/2" Electrical Metallic Tubing (EMT) Set Screw Coupling .....	48.23	14.06
<i>For Work In Restricted Working Space, Add</i>	12.65	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
<i>For Elevated Installation &gt;40', Add</i>	23.19	
26 05 33 13-0643 EA 4" Electrical Metallic Tubing (EMT) Set Screw Coupling.....	136.55	38.84
<i>For Work In Restricted Working Space, Add</i>	37.72	
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.15	
<i>For Elevated Installation &gt;20' To 25', Add</i>	31.44	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.01	
<i>For Elevated Installation &gt;30' To 35', Add</i>	50.30	
<i>For Elevated Installation &gt;35' To 40', Add</i>	62.87	
<i>For Elevated Installation &gt;40', Add</i>	69.16	
<b>26 05 33 13-0644 Electrical Metallic Tubing (EMT) Compression Couplings</b> <small>(26 05 33 13-0599)</small>		
26 05 33 13-0645 EA 1/2 Electrical Metallic Tubing (EMT) Compression Coupling .....	9.25	3.38
<i>For Work In Restricted Working Space, Add</i>	2.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.84	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.69	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.38	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.22	
<i>For Elevated Installation &gt;40', Add</i>	4.64	
26 05 33 13-0646 EA 3/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	10.73	3.94
<i>For Work In Restricted Working Space, Add</i>	2.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.98	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.97	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.46	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.44	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.94	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.92	
<i>For Elevated Installation &gt;40', Add</i>	5.41	
26 05 33 13-0647 EA 1" Electrical Metallic Tubing (EMT) Compression Coupling.....	15.30	5.62
<i>For Work In Restricted Working Space, Add</i>	4.22	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.41	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.81	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.62	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.03	
<i>For Elevated Installation &gt;40', Add</i>	7.73	
26 05 33 13-0648 EA 1-1/4" Electrical Metallic Tubing (EMT) Compression Coupling.....	19.45	6.74
<i>For Work In Restricted Working Space, Add</i>	5.06	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.69	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.37	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.90	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.43	
<i>For Elevated Installation &gt;40', Add</i>	9.27	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0649 EA 1-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	23.32	7.88
For Work In Restricted Working Space, Add	5.90	
For Elevated Installation >10' To 15', Add	1.97	
For Elevated Installation >15' To 20', Add	3.94	
For Elevated Installation >20' To 25', Add	4.92	
For Elevated Installation >25' To 30', Add	6.89	
For Elevated Installation >30' To 35', Add	7.87	
For Elevated Installation >35' To 40', Add	9.84	
For Elevated Installation >40', Add	10.82	
26 05 33 13-0650 EA 2" Electrical Metallic Tubing (EMT) Compression Coupling.....	31.03	10.12
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >10' To 15', Add	2.53	
For Elevated Installation >15' To 20', Add	5.06	
For Elevated Installation >20' To 25', Add	6.33	
For Elevated Installation >25' To 30', Add	8.86	
For Elevated Installation >30' To 35', Add	10.12	
For Elevated Installation >35' To 40', Add	12.65	
For Elevated Installation >40', Add	13.92	
26 05 33 13-0651 EA 2-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	48.70	13.50
For Work In Restricted Working Space, Add	10.12	
For Elevated Installation >10' To 15', Add	3.37	
For Elevated Installation >15' To 20', Add	6.75	
For Elevated Installation >20' To 25', Add	8.43	
For Elevated Installation >25' To 30', Add	11.81	
For Elevated Installation >30' To 35', Add	13.49	
For Elevated Installation >35' To 40', Add	16.87	
For Elevated Installation >40', Add	18.55	
26 05 33 13-0652 EA 3" Electrical Metallic Tubing (EMT) Compression Coupling.....	56.37	15.74
For Work In Restricted Working Space, Add	11.81	
For Elevated Installation >10' To 15', Add	3.94	
For Elevated Installation >15' To 20', Add	7.87	
For Elevated Installation >20' To 25', Add	9.84	
For Elevated Installation >25' To 30', Add	13.78	
For Elevated Installation >30' To 35', Add	15.74	
For Elevated Installation >35' To 40', Add	19.68	
For Elevated Installation >40', Add	21.65	
26 05 33 13-0653 EA 3-1/2" Electrical Metallic Tubing (EMT) Compression Coupling.....	70.47	19.68
For Work In Restricted Working Space, Add	14.76	
For Elevated Installation >10' To 15', Add	4.92	
For Elevated Installation >15' To 20', Add	9.84	
For Elevated Installation >20' To 25', Add	12.30	
For Elevated Installation >25' To 30', Add	17.22	
For Elevated Installation >30' To 35', Add	19.68	
For Elevated Installation >35' To 40', Add	24.60	
For Elevated Installation >40', Add	27.05	
26 05 33 13-0654 EA 4" Electrical Metallic Tubing (EMT) Compression Coupling.....	90.39	25.30
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
<b>26 05 33 13-0655 Electrical Metallic Tubing (EMT) Raintight Compression Couplings</b> <small>(26 05 33 13-0599)</small>		
26 05 33 13-0656 EA 1/2 Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	10.42	3.38
For Work In Restricted Working Space, Add	2.53	
For Elevated Installation >10' To 15', Add	0.84	
For Elevated Installation >15' To 20', Add	1.69	
For Elevated Installation >20' To 25', Add	2.11	
For Elevated Installation >25' To 30', Add	2.95	
For Elevated Installation >30' To 35', Add	3.38	
For Elevated Installation >35' To 40', Add	4.22	
For Elevated Installation >40', Add	4.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.53	
26 05 33 13-0657 EA 3/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	12.01	3.94
For Work In Restricted Working Space, Add	2.95	
For Elevated Installation >10' To 15', Add	0.98	
For Elevated Installation >15' To 20', Add	1.97	
For Elevated Installation >20' To 25', Add	2.46	
For Elevated Installation >25' To 30', Add	3.44	
For Elevated Installation >30' To 35', Add	3.94	
For Elevated Installation >35' To 40', Add	4.92	
For Elevated Installation >40', Add	5.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.95	
26 05 33 13-0658 EA 1" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	17.72	5.62
For Work In Restricted Working Space, Add	4.22	
For Elevated Installation >10' To 15', Add	1.41	
For Elevated Installation >15' To 20', Add	2.81	
For Elevated Installation >20' To 25', Add	3.52	
For Elevated Installation >25' To 30', Add	4.92	
For Elevated Installation >30' To 35', Add	5.62	
For Elevated Installation >35' To 40', Add	7.03	
For Elevated Installation >40', Add	7.73	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0659 EA 1-1/4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	22.39	6.74
<i>For Work In Restricted Working Space, Add</i>	5.06	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.69	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.37	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.90	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.43	
<i>For Elevated Installation &gt;40', Add</i>	9.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33 13-0660 EA 1-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	28.55	7.88
<i>For Work In Restricted Working Space, Add</i>	5.90	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.97	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.94	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.92	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.87	
<i>For Elevated Installation &gt;35' To 40', Add</i>	9.84	
<i>For Elevated Installation &gt;40', Add</i>	10.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.90	
26 05 33 13-0661 EA 2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	34.80	9.56
<i>For Work In Restricted Working Space, Add</i>	7.17	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.39	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.78	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.98	
<i>For Elevated Installation &gt;25' To 30', Add</i>	8.37	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.56	
<i>For Elevated Installation &gt;35' To 40', Add</i>	11.95	
<i>For Elevated Installation &gt;40', Add</i>	13.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.17	
26 05 33 13-0662 EA 2-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	46.82	12.93
<i>For Work In Restricted Working Space, Add</i>	9.70	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.23	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.46	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	11.31	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.93	
<i>For Elevated Installation &gt;35' To 40', Add</i>	16.16	
<i>For Elevated Installation &gt;40', Add</i>	17.78	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.70	
26 05 33 13-0663 EA 3" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	59.05	15.74
<i>For Work In Restricted Working Space, Add</i>	11.81	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.87	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.78	
<i>For Elevated Installation &gt;30' To 35', Add</i>	15.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	19.68	
<i>For Elevated Installation &gt;40', Add</i>	21.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33 13-0664 EA 3-1/2" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	77.69	19.68
<i>For Work In Restricted Working Space, Add</i>	14.76	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.84	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.30	
<i>For Elevated Installation &gt;25' To 30', Add</i>	17.22	
<i>For Elevated Installation &gt;30' To 35', Add</i>	19.68	
<i>For Elevated Installation &gt;35' To 40', Add</i>	24.60	
<i>For Elevated Installation &gt;40', Add</i>	27.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.76	
26 05 33 13-0665 EA 4" Electrical Metallic Tubing (EMT) Raintight Compression Coupling.....	95.10	25.30
<i>For Work In Restricted Working Space, Add</i>	18.98	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.33	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.65	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	22.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	25.30	
<i>For Elevated Installation &gt;35' To 40', Add</i>	31.63	
<i>For Elevated Installation &gt;40', Add</i>	34.79	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.98	
<b>26 05 33 13-0666 Electrical Metallic Tubing (EMT) Insulated Bushing (26 05 33 13-0599)</b>		
26 05 33 13-0667 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	9.53	3.80
<i>For Work In Restricted Working Space, Add</i>	2.83	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.88	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.71	
<i>For Elevated Installation &gt;40', Add</i>	5.18	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.83	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0668 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	10.43	4.08
For Work In Restricted Working Space, Add	3.08	
For Elevated Installation >10' To 15', Add	1.03	
For Elevated Installation >15' To 20', Add	2.05	
For Elevated Installation >20' To 25', Add	2.57	
For Elevated Installation >25' To 30', Add	3.59	
For Elevated Installation >30' To 35', Add	4.10	
For Elevated Installation >35' To 40', Add	5.13	
For Elevated Installation >40', Add	5.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.08	
26 05 33 13-0669 EA 1" Electrical Metallic Tubing (EMT) Insulated Bushing.....	13.06	5.06
For Work In Restricted Working Space, Add	3.75	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.13	
For Elevated Installation >25' To 30', Add	4.38	
For Elevated Installation >30' To 35', Add	5.00	
For Elevated Installation >35' To 40', Add	6.26	
For Elevated Installation >40', Add	6.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.75	
26 05 33 13-0670 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Bushing .....	16.69	6.46
For Work In Restricted Working Space, Add	4.81	
For Elevated Installation >10' To 15', Add	1.60	
For Elevated Installation >15' To 20', Add	3.20	
For Elevated Installation >20' To 25', Add	4.01	
For Elevated Installation >25' To 30', Add	5.61	
For Elevated Installation >30' To 35', Add	6.41	
For Elevated Installation >35' To 40', Add	8.01	
For Elevated Installation >40', Add	8.81	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.81	
26 05 33 13-0671 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing .....	19.76	7.44
For Work In Restricted Working Space, Add	5.61	
For Elevated Installation >10' To 15', Add	1.87	
For Elevated Installation >15' To 20', Add	3.74	
For Elevated Installation >20' To 25', Add	4.68	
For Elevated Installation >25' To 30', Add	6.55	
For Elevated Installation >30' To 35', Add	7.48	
For Elevated Installation >35' To 40', Add	9.35	
For Elevated Installation >40', Add	10.29	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.61	
26 05 33 13-0672 EA 2" Electrical Metallic Tubing (EMT) Insulated Bushing.....	24.27	9.00
For Work In Restricted Working Space, Add	6.75	
For Elevated Installation >10' To 15', Add	2.25	
For Elevated Installation >15' To 20', Add	4.50	
For Elevated Installation >20' To 25', Add	5.62	
For Elevated Installation >25' To 30', Add	7.87	
For Elevated Installation >30' To 35', Add	9.00	
For Elevated Installation >35' To 40', Add	11.25	
For Elevated Installation >40', Add	12.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.75	
26 05 33 13-0673 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing .....	35.04	12.51
For Work In Restricted Working Space, Add	9.36	
For Elevated Installation >10' To 15', Add	3.12	
For Elevated Installation >15' To 20', Add	6.24	
For Elevated Installation >20' To 25', Add	7.80	
For Elevated Installation >25' To 30', Add	10.92	
For Elevated Installation >30' To 35', Add	12.48	
For Elevated Installation >35' To 40', Add	15.60	
For Elevated Installation >40', Add	17.16	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.36	
26 05 33 13-0674 EA 3" Electrical Metallic Tubing (EMT) Insulated Bushing.....	46.49	16.58
For Work In Restricted Working Space, Add	12.48	
For Elevated Installation >10' To 15', Add	4.16	
For Elevated Installation >15' To 20', Add	8.32	
For Elevated Installation >20' To 25', Add	10.40	
For Elevated Installation >25' To 30', Add	14.56	
For Elevated Installation >30' To 35', Add	16.64	
For Elevated Installation >35' To 40', Add	20.80	
For Elevated Installation >40', Add	22.88	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.48	
26 05 33 13-0675 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Bushing .....	59.58	21.36
For Work In Restricted Working Space, Add	16.07	
For Elevated Installation >10' To 15', Add	5.36	
For Elevated Installation >15' To 20', Add	10.71	
For Elevated Installation >20' To 25', Add	13.39	
For Elevated Installation >25' To 30', Add	18.74	
For Elevated Installation >30' To 35', Add	21.42	
For Elevated Installation >35' To 40', Add	26.78	
For Elevated Installation >40', Add	29.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0676 EA 4" Electrical Metallic Tubing (EMT) Insulated Bushing.....	76.99	28.11
<i>For Work In Restricted Working Space, Add</i>	21.08	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.05	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	28.11	
<i>For Elevated Installation &gt;35' To 40', Add</i>	35.14	
<i>For Elevated Installation &gt;40', Add</i>	38.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.08	
<b>26 05 33 13-0677 Electrical Metallic Tubing (EMT) Straight Box Connectors With Set Screw <sup>(26</sup></b>		
<small>05 33 13-0599)</small>		
26 05 33 13-0678 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	7.28	2.82
<i>For Work In Restricted Working Space, Add</i>	2.11	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.70	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.40	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.76	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.46	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.81	
<i>For Elevated Installation &gt;35' To 40', Add</i>	3.51	
<i>For Elevated Installation &gt;40', Add</i>	3.86	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.11	
26 05 33 13-0679 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	8.86	3.38
<i>For Work In Restricted Working Space, Add</i>	2.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.84	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.69	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.38	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.22	
<i>For Elevated Installation &gt;40', Add</i>	4.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.53	
26 05 33 13-0680 EA 1" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	10.57	3.94
<i>For Work In Restricted Working Space, Add</i>	2.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.98	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.97	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.46	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.44	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.94	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.92	
<i>For Elevated Installation &gt;40', Add</i>	5.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.95	
26 05 33 13-0681 EA 1-1/4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw .....	15.41	5.62
<i>For Work In Restricted Working Space, Add</i>	4.22	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.41	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.81	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.62	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.03	
<i>For Elevated Installation &gt;40', Add</i>	7.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.22	
26 05 33 13-0682 EA 1-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw .....	18.82	6.74
<i>For Work In Restricted Working Space, Add</i>	5.06	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.69	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.37	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.90	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.74	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.43	
<i>For Elevated Installation &gt;40', Add</i>	9.27	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33 13-0683 EA 2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	23.98	8.44
<i>For Work In Restricted Working Space, Add</i>	6.32	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.27	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.38	
<i>For Elevated Installation &gt;30' To 35', Add</i>	8.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	10.54	
<i>For Elevated Installation &gt;40', Add</i>	11.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-0684 EA 2-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw .....	36.20	11.24
<i>For Work In Restricted Working Space, Add</i>	8.43	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.81	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.62	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.84	
<i>For Elevated Installation &gt;30' To 35', Add</i>	11.24	
<i>For Elevated Installation &gt;35' To 40', Add</i>	14.06	
<i>For Elevated Installation &gt;40', Add</i>	15.46	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.43	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0685 EA 3" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	45.03	14.06
<i>For Work In Restricted Working Space, Add</i>	10.54	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
<i>For Elevated Installation &gt;40', Add</i>	19.33	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-0686 EA 3-1/2" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	53.27	16.86
<i>For Work In Restricted Working Space, Add</i>	12.65	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
<i>For Elevated Installation &gt;40', Add</i>	23.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.65	
26 05 33 13-0687 EA 4" Electrical Metallic Tubing (EMT) Straight Box Connector With Set Screw.....	62.05	19.68
<i>For Work In Restricted Working Space, Add</i>	14.76	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.84	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.30	
<i>For Elevated Installation &gt;25' To 30', Add</i>	17.22	
<i>For Elevated Installation &gt;30' To 35', Add</i>	19.68	
<i>For Elevated Installation &gt;35' To 40', Add</i>	24.60	
<i>For Elevated Installation &gt;40', Add</i>	27.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.76	
<b>26 05 33 13-0688 Electrical Metallic Tubing (EMT) Insulated Straight Box Connectors With Set Screw</b> <small>(26 05 33 13-0599)</small>		
26 05 33 13-0689 EA 1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	9.85	3.80
<i>For Work In Restricted Working Space, Add</i>	2.83	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.88	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.71	
<i>For Elevated Installation &gt;40', Add</i>	5.18	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.83	
26 05 33 13-0690 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	10.95	4.08
<i>For Work In Restricted Working Space, Add</i>	3.08	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.05	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.10	
<i>For Elevated Installation &gt;35' To 40', Add</i>	5.13	
<i>For Elevated Installation &gt;40', Add</i>	5.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.08	
26 05 33 13-0691 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	13.74	5.06
<i>For Work In Restricted Working Space, Add</i>	3.75	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.50	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.13	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.38	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.00	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.26	
<i>For Elevated Installation &gt;40', Add</i>	6.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	
26 05 33 13-0692 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	18.07	6.46
<i>For Work In Restricted Working Space, Add</i>	4.81	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.60	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.20	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.01	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.61	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.41	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.01	
<i>For Elevated Installation &gt;40', Add</i>	8.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.81	
26 05 33 13-0693 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	21.42	7.44
<i>For Work In Restricted Working Space, Add</i>	5.61	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.87	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.74	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.55	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.48	
<i>For Elevated Installation &gt;35' To 40', Add</i>	9.35	
<i>For Elevated Installation &gt;40', Add</i>	10.29	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0694 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	26.23	9.00
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.50	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.62	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.87	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.00	
<i>For Elevated Installation &gt;35' To 40', Add</i>	11.25	
<i>For Elevated Installation &gt;40', Add</i>	12.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-0695 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	43.45	12.51
<i>For Work In Restricted Working Space, Add</i>	9.36	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.12	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.24	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.80	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.48	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.60	
<i>For Elevated Installation &gt;40', Add</i>	17.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.36	
26 05 33 13-0696 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	56.25	16.58
<i>For Work In Restricted Working Space, Add</i>	12.48	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.16	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.32	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.40	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.56	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.64	
<i>For Elevated Installation &gt;35' To 40', Add</i>	20.80	
<i>For Elevated Installation &gt;40', Add</i>	22.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.48	
26 05 33 13-0697 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	71.86	21.36
<i>For Work In Restricted Working Space, Add</i>	16.07	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.36	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.71	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.74	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.42	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.78	
<i>For Elevated Installation &gt;40', Add</i>	29.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.07	
26 05 33 13-0698 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Connector With Set Screw .....	90.42	28.11
<i>For Work In Restricted Working Space, Add</i>	21.08	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.05	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	28.11	
<i>For Elevated Installation &gt;35' To 40', Add</i>	35.14	
<i>For Elevated Installation &gt;40', Add</i>	38.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.08	
<b>26 05 33 13-0699 Electrical Metallic Tubing (EMT) Straight Box Compression Connectors <small>(26 05 33 13-0699)</small></b>		
26 05 33 13-0700 EA 1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	8.86	3.38
<i>For Work In Restricted Working Space, Add</i>	2.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.84	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.69	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.38	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.22	
<i>For Elevated Installation &gt;40', Add</i>	4.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.53	
26 05 33 13-0701 EA 3/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	10.48	3.94
<i>For Work In Restricted Working Space, Add</i>	2.95	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.98	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.97	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.46	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.44	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.94	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.92	
<i>For Elevated Installation &gt;40', Add</i>	5.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.95	
26 05 33 13-0702 EA 1" Electrical Metallic Tubing (EMT) Straight Box Compression Connector .....	14.96	5.62
<i>For Work In Restricted Working Space, Add</i>	4.22	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.41	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.81	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.62	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.03	
<i>For Elevated Installation &gt;40', Add</i>	7.73	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.22	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0703	EA	1-1/4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	18.56	6.74
			<i>For Work In Restricted Working Space, Add</i>	5.06	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.69	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.37	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.22	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.43	
			<i>For Elevated Installation &gt;40', Add</i>	9.27	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33	13-0704	EA	1-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	22.08	7.88
			<i>For Work In Restricted Working Space, Add</i>	5.90	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.97	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.94	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.92	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	6.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	7.87	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	9.84	
			<i>For Elevated Installation &gt;40', Add</i>	10.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.90	
26 05 33	13-0705	EA	2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	28.78	10.12
			<i>For Work In Restricted Working Space, Add</i>	7.59	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.53	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.33	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.86	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	12.65	
			<i>For Elevated Installation &gt;40', Add</i>	13.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.59	
26 05 33	13-0706	EA	2-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	44.20	13.50
			<i>For Work In Restricted Working Space, Add</i>	10.12	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.37	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.43	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.81	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.49	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.87	
			<i>For Elevated Installation &gt;40', Add</i>	18.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.12	
26 05 33	13-0707	EA	3" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	55.85	16.86
			<i>For Work In Restricted Working Space, Add</i>	12.65	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
			<i>For Elevated Installation &gt;40', Add</i>	23.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.65	
26 05 33	13-0708	EA	3-1/2" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	70.29	19.68
			<i>For Work In Restricted Working Space, Add</i>	14.76	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.84	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.30	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.22	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	24.60	
			<i>For Elevated Installation &gt;40', Add</i>	27.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.76	
26 05 33	13-0709	EA	4" Electrical Metallic Tubing (EMT) Straight Box Compression Connector.....	79.11	22.49
			<i>For Work In Restricted Working Space, Add</i>	16.87	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.24	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.11	
			<i>For Elevated Installation &gt;40', Add</i>	30.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.87	
26 05 33	13-0710		<b>Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connectors</b> <small>(26 05 33 13-0599)</small>		
26 05 33	13-0711	EA	1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	10.14	3.80
			<i>For Work In Restricted Working Space, Add</i>	2.83	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	0.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	1.88	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	2.36	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	3.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	3.77	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	4.71	
			<i>For Elevated Installation &gt;40', Add</i>	5.18	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.83	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0712 EA 3/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....	11.25	4.08
<i>For Work In Restricted Working Space, Add</i>	3.08	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.05	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.57	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.10	
<i>For Elevated Installation &gt;35' To 40', Add</i>	5.13	
<i>For Elevated Installation &gt;40', Add</i>	5.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.08	
26 05 33 13-0713 EA 1" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....	13.99	5.06
<i>For Work In Restricted Working Space, Add</i>	3.75	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.50	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.13	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.38	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.00	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.26	
<i>For Elevated Installation &gt;40', Add</i>	6.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.75	
26 05 33 13-0714 EA 1-1/4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....	18.79	6.46
<i>For Work In Restricted Working Space, Add</i>	4.81	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.60	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.20	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.01	
<i>For Elevated Installation &gt;25' To 30', Add</i>	5.61	
<i>For Elevated Installation &gt;30' To 35', Add</i>	6.41	
<i>For Elevated Installation &gt;35' To 40', Add</i>	8.01	
<i>For Elevated Installation &gt;40', Add</i>	8.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.81	
26 05 33 13-0715 EA 1-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....	22.62	7.44
<i>For Work In Restricted Working Space, Add</i>	5.61	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.87	
<i>For Elevated Installation &gt;15' To 20', Add</i>	3.74	
<i>For Elevated Installation &gt;20' To 25', Add</i>	4.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	6.55	
<i>For Elevated Installation &gt;30' To 35', Add</i>	7.48	
<i>For Elevated Installation &gt;35' To 40', Add</i>	9.35	
<i>For Elevated Installation &gt;40', Add</i>	10.29	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.61	
26 05 33 13-0716 EA 2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....	27.96	9.00
<i>For Work In Restricted Working Space, Add</i>	6.75	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.50	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.62	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.87	
<i>For Elevated Installation &gt;30' To 35', Add</i>	9.00	
<i>For Elevated Installation &gt;35' To 40', Add</i>	11.25	
<i>For Elevated Installation &gt;40', Add</i>	12.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-0717 EA 2-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....	49.76	12.51
<i>For Work In Restricted Working Space, Add</i>	9.36	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.12	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.24	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.80	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.48	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.60	
<i>For Elevated Installation &gt;40', Add</i>	17.16	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.36	
26 05 33 13-0718 EA 3" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....	66.85	16.58
<i>For Work In Restricted Working Space, Add</i>	12.48	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.16	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.32	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.40	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.56	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.64	
<i>For Elevated Installation &gt;35' To 40', Add</i>	20.80	
<i>For Elevated Installation &gt;40', Add</i>	22.88	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.48	
26 05 33 13-0719 EA 3-1/2" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector .....	90.46	21.36
<i>For Work In Restricted Working Space, Add</i>	16.07	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.36	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.71	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.74	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.42	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.78	
<i>For Elevated Installation &gt;40', Add</i>	29.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.07	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0720 EA 4" Electrical Metallic Tubing (EMT) Insulated Straight Box Compression Connector.....	113.44	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
<b>26 05 33 13-0721 Electrical Metallic Tubing (EMT) Expansion Coupling (26 05 33 13-0599)</b>		
Note: Excludes jumper.		
26 05 33 13-0722 EA 1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....	76.05	18.70
For Work In Restricted Working Space, Add	14.03	
For Elevated Installation >10' To 15', Add	4.68	
For Elevated Installation >15' To 20', Add	9.35	
For Elevated Installation >20' To 25', Add	11.69	
For Elevated Installation >25' To 30', Add	16.37	
For Elevated Installation >30' To 35', Add	18.71	
For Elevated Installation >35' To 40', Add	23.39	
For Elevated Installation >40', Add	25.72	
26 05 33 13-0723 EA 3/4" Electrical Metallic Tubing (EMT) Expansion Coupling .....	91.62	22.63
For Work In Restricted Working Space, Add	17.01	
For Elevated Installation >10' To 15', Add	5.67	
For Elevated Installation >15' To 20', Add	11.34	
For Elevated Installation >20' To 25', Add	14.18	
For Elevated Installation >25' To 30', Add	19.85	
For Elevated Installation >30' To 35', Add	22.68	
For Elevated Installation >35' To 40', Add	28.35	
For Elevated Installation >40', Add	31.19	
26 05 33 13-0724 EA 1" Electrical Metallic Tubing (EMT) Expansion Coupling .....	112.56	28.39
For Work In Restricted Working Space, Add	21.26	
For Elevated Installation >10' To 15', Add	7.09	
For Elevated Installation >15' To 20', Add	14.17	
For Elevated Installation >20' To 25', Add	17.72	
For Elevated Installation >25' To 30', Add	24.80	
For Elevated Installation >30' To 35', Add	28.35	
For Elevated Installation >35' To 40', Add	35.44	
For Elevated Installation >40', Add	38.98	
26 05 33 13-0725 EA 1-1/4" Electrical Metallic Tubing (EMT) Expansion Coupling .....	145.60	34.86
For Work In Restricted Working Space, Add	26.16	
For Elevated Installation >10' To 15', Add	8.72	
For Elevated Installation >15' To 20', Add	17.44	
For Elevated Installation >20' To 25', Add	21.80	
For Elevated Installation >25' To 30', Add	30.52	
For Elevated Installation >30' To 35', Add	34.88	
For Elevated Installation >35' To 40', Add	43.60	
For Elevated Installation >40', Add	47.95	
26 05 33 13-0726 EA 1-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....	180.97	40.90
For Work In Restricted Working Space, Add	30.68	
For Elevated Installation >10' To 15', Add	10.23	
For Elevated Installation >15' To 20', Add	20.45	
For Elevated Installation >20' To 25', Add	25.56	
For Elevated Installation >25' To 30', Add	35.79	
For Elevated Installation >30' To 35', Add	40.90	
For Elevated Installation >35' To 40', Add	51.13	
For Elevated Installation >40', Add	56.24	
26 05 33 13-0727 EA 2" Electrical Metallic Tubing (EMT) Expansion Coupling .....	226.87	49.76
For Work In Restricted Working Space, Add	37.35	
For Elevated Installation >10' To 15', Add	12.45	
For Elevated Installation >15' To 20', Add	24.90	
For Elevated Installation >20' To 25', Add	31.13	
For Elevated Installation >25' To 30', Add	43.58	
For Elevated Installation >30' To 35', Add	49.80	
For Elevated Installation >35' To 40', Add	62.26	
For Elevated Installation >40', Add	68.48	
26 05 33 13-0728 EA 2-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling .....	433.92	63.95
For Work In Restricted Working Space, Add	47.98	
For Elevated Installation >10' To 15', Add	15.99	
For Elevated Installation >15' To 20', Add	31.98	
For Elevated Installation >20' To 25', Add	39.98	
For Elevated Installation >25' To 30', Add	55.97	
For Elevated Installation >30' To 35', Add	63.97	
For Elevated Installation >35' To 40', Add	79.96	
For Elevated Installation >40', Add	87.96	
26 05 33 13-0729 EA 3" Electrical Metallic Tubing (EMT) Expansion Coupling .....	530.81	74.77
For Work In Restricted Working Space, Add	56.10	
For Elevated Installation >10' To 15', Add	18.70	
For Elevated Installation >15' To 20', Add	37.40	
For Elevated Installation >20' To 25', Add	46.75	
For Elevated Installation >25' To 30', Add	65.45	
For Elevated Installation >30' To 35', Add	74.80	
For Elevated Installation >35' To 40', Add	93.50	
For Elevated Installation >40', Add	102.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0730 EA 3-1/2" Electrical Metallic Tubing (EMT) Expansion Coupling.....	652.18	81.52
For Work In Restricted Working Space, Add	61.16	
For Elevated Installation >10' To 15', Add	20.39	
For Elevated Installation >15' To 20', Add	40.77	
For Elevated Installation >20' To 25', Add	50.97	
For Elevated Installation >25' To 30', Add	71.35	
For Elevated Installation >30' To 35', Add	81.54	
For Elevated Installation >35' To 40', Add	101.93	
For Elevated Installation >40', Add	112.12	
26 05 33 13-0731 EA 4" Electrical Metallic Tubing (EMT) Expansion Coupling.....	705.85	89.95
For Work In Restricted Working Space, Add	67.49	
For Elevated Installation >10' To 15', Add	22.50	
For Elevated Installation >15' To 20', Add	44.99	
For Elevated Installation >20' To 25', Add	56.24	
For Elevated Installation >25' To 30', Add	78.73	
For Elevated Installation >30' To 35', Add	89.98	
For Elevated Installation >35' To 40', Add	112.48	
For Elevated Installation >40', Add	123.72	
<b>26 05 33 13-0732 Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapters</b>		
<small>(26 05 33 13-0599)</small>		
26 05 33 13-0733 EA 1/2" To 3/8" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	14.25	5.06
For Work In Restricted Working Space, Add	3.74	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.12	
For Elevated Installation >25' To 30', Add	4.37	
For Elevated Installation >30' To 35', Add	4.99	
For Elevated Installation >35' To 40', Add	6.24	
For Elevated Installation >40', Add	6.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 05 33 13-0734 EA 1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	15.20	5.06
For Work In Restricted Working Space, Add	3.74	
For Elevated Installation >10' To 15', Add	1.25	
For Elevated Installation >15' To 20', Add	2.50	
For Elevated Installation >20' To 25', Add	3.12	
For Elevated Installation >25' To 30', Add	4.37	
For Elevated Installation >30' To 35', Add	4.99	
For Elevated Installation >35' To 40', Add	6.24	
For Elevated Installation >40', Add	6.86	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.74	
26 05 33 13-0735 EA 3/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	17.00	5.48
For Work In Restricted Working Space, Add	4.16	
For Elevated Installation >10' To 15', Add	1.39	
For Elevated Installation >15' To 20', Add	2.77	
For Elevated Installation >20' To 25', Add	3.47	
For Elevated Installation >25' To 30', Add	4.85	
For Elevated Installation >30' To 35', Add	5.55	
For Elevated Installation >35' To 40', Add	6.94	
For Elevated Installation >40', Add	7.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.16	
26 05 33 13-0736 EA 1" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	19.79	6.32
For Work In Restricted Working Space, Add	4.73	
For Elevated Installation >10' To 15', Add	1.58	
For Elevated Installation >15' To 20', Add	3.16	
For Elevated Installation >20' To 25', Add	3.95	
For Elevated Installation >25' To 30', Add	5.52	
For Elevated Installation >30' To 35', Add	6.31	
For Elevated Installation >35' To 40', Add	7.89	
For Elevated Installation >40', Add	8.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.73	
26 05 33 13-0737 EA 1-1/4" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	28.18	7.59
For Work In Restricted Working Space, Add	5.73	
For Elevated Installation >10' To 15', Add	1.91	
For Elevated Installation >15' To 20', Add	3.82	
For Elevated Installation >20' To 25', Add	4.77	
For Elevated Installation >25' To 30', Add	6.68	
For Elevated Installation >30' To 35', Add	7.64	
For Elevated Installation >35' To 40', Add	9.55	
For Elevated Installation >40', Add	10.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.73	
26 05 33 13-0738 EA 1-1/2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	34.45	8.72
For Work In Restricted Working Space, Add	6.54	
For Elevated Installation >10' To 15', Add	2.18	
For Elevated Installation >15' To 20', Add	4.36	
For Elevated Installation >20' To 25', Add	5.45	
For Elevated Installation >25' To 30', Add	7.63	
For Elevated Installation >30' To 35', Add	8.72	
For Elevated Installation >35' To 40', Add	10.91	
For Elevated Installation >40', Add	12.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.54	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0739 EA 2" Electrical Metallic Tubing (EMT) To Flexible Conduit Compression Adapter.....	44.90	10.96
For Work In Restricted Working Space, Add	8.18	
For Elevated Installation >10' To 15', Add	2.73	
For Elevated Installation >15' To 20', Add	5.45	
For Elevated Installation >20' To 25', Add	6.82	
For Elevated Installation >25' To 30', Add	9.54	
For Elevated Installation >30' To 35', Add	10.90	
For Elevated Installation >35' To 40', Add	13.63	
For Elevated Installation >40', Add	14.99	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.18	
<b>26 05 33 13-0740 Electrical Metallic Tubing (EMT) Pulling Elbows (26 05 33 13-0599)</b>		
26 05 33 13-0741 EA 1/2" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....	29.89	12.65
For Work In Restricted Working Space, Add	7.59	
For Elevated Installation >15' To 20', Add	5.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.59	
26 05 33 13-0742 EA 3/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....	34.84	14.76
For Work In Restricted Working Space, Add	8.86	
For Elevated Installation >15' To 20', Add	5.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.86	
26 05 33 13-0743 EA 1" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....	43.24	16.86
For Work In Restricted Working Space, Add	10.12	
For Elevated Installation >15' To 20', Add	6.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.12	
26 05 33 13-0744 EA 1-1/4" Electrical Metallic Tubing (EMT) Pulling Elbow With Set Screws .....	55.24	21.08
For Work In Restricted Working Space, Add	12.65	
For Elevated Installation >15' To 20', Add	8.43	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.65	
<b>26 05 33 13-0745 Intermediate Metal Conduit (IMC) (26 05 33 13-0059)</b>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
<b>26 05 33 13-0746 Intermediate Metal Conduit (IMC) Conduit (26 05 33 13-0745)</b>		
Note: Includes field bending conduit up to 1".		
26 05 33 13-0747 LF 1/2" Intermediate Metal Conduit (IMC) Conduit .....	9.86	2.82
For >250 To 500, Deduct	-0.13	
For >500 To 1,000, Deduct	-0.19	
For >1,000, Deduct	-0.26	
For Installation In Metal Stud Wall, Add	0.73	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.83	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.10	
For Work In Restricted Working Space, Add	2.19	
For Elevated Installation >10' To 15', Add	0.73	
For Elevated Installation >15' To 20', Add	1.46	
For Elevated Installation >20' To 25', Add	1.83	
For Elevated Installation >25' To 30', Add	2.56	
For Elevated Installation >30' To 35', Add	2.92	
For Elevated Installation >35' To 40', Add	3.65	
For Elevated Installation >40', Add	4.02	
26 05 33 13-0748 LF 3/4" Intermediate Metal Conduit (IMC) Conduit .....	11.78	3.10
For >250 To 500, Deduct	-0.15	
For >500 To 1,000, Deduct	-0.23	
For >1,000, Deduct	-0.31	
For Installation In Metal Stud Wall, Add	0.87	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.18	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.31	
For Work In Restricted Working Space, Add	2.62	
For Elevated Installation >10' To 15', Add	0.87	
For Elevated Installation >15' To 20', Add	1.74	
For Elevated Installation >20' To 25', Add	2.18	
For Elevated Installation >25' To 30', Add	3.05	
For Elevated Installation >30' To 35', Add	3.49	
For Elevated Installation >35' To 40', Add	4.36	
For Elevated Installation >40', Add	4.80	
26 05 33 13-0749 LF 1" Intermediate Metal Conduit (IMC) Conduit .....	15.68	3.38
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.35	
For >1,000, Deduct	-0.47	
For Installation In Metal Stud Wall, Add	1.10	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.74	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.64	
For Work In Restricted Working Space, Add	3.29	
For Elevated Installation >10' To 15', Add	1.10	
For Elevated Installation >15' To 20', Add	2.19	
For Elevated Installation >20' To 25', Add	2.74	
For Elevated Installation >25' To 30', Add	3.84	
For Elevated Installation >30' To 35', Add	4.38	
For Elevated Installation >35' To 40', Add	5.48	
For Elevated Installation >40', Add	6.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0750 LF 1-1/4" Intermediate Metal Conduit (IMC) Conduit .....	18.06	6.74
For >250 To 500, Deduct	-0.30	
For >500 To 1,000, Deduct	-0.45	
For >1,000, Deduct	-0.60	
For Installation In Metal Stud Wall, Add	1.21	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.02	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.81	
For Work In Restricted Working Space, Add	3.62	
For Elevated Installation >10' To 15', Add	1.21	
For Elevated Installation >15' To 20', Add	2.42	
For Elevated Installation >20' To 25', Add	3.02	
For Elevated Installation >25' To 30', Add	4.23	
For Elevated Installation >30' To 35', Add	4.83	
For Elevated Installation >35' To 40', Add	6.04	
For Elevated Installation >40', Add	6.64	
26 05 33 13-0751 LF 1-1/2" Intermediate Metal Conduit (IMC) Conduit .....	20.28	4.50
For >250 To 500, Deduct	-0.35	
For >500 To 1,000, Deduct	-0.53	
For >1,000, Deduct	-0.71	
For Installation In Metal Stud Wall, Add	1.32	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.31	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.98	
For Work In Restricted Working Space, Add	3.97	
For Elevated Installation >10' To 15', Add	1.32	
For Elevated Installation >15' To 20', Add	2.64	
For Elevated Installation >20' To 25', Add	3.31	
For Elevated Installation >25' To 30', Add	4.63	
For Elevated Installation >30' To 35', Add	5.29	
For Elevated Installation >35' To 40', Add	6.61	
For Elevated Installation >40', Add	7.27	
26 05 33 13-0752 LF 2" Intermediate Metal Conduit (IMC) Conduit .....	25.60	5.06
For >250 To 500, Deduct	-0.48	
For >500 To 1,000, Deduct	-0.72	
For >1,000, Deduct	-0.96	
For Installation In Metal Stud Wall, Add	1.60	
For Installation In Wood Stud Wall (Includes Drilling), Add	4.01	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	2.40	
For Work In Restricted Working Space, Add	4.81	
For Elevated Installation >10' To 15', Add	1.60	
For Elevated Installation >15' To 20', Add	3.20	
For Elevated Installation >20' To 25', Add	4.01	
For Elevated Installation >25' To 30', Add	5.61	
For Elevated Installation >30' To 35', Add	6.41	
For Elevated Installation >35' To 40', Add	8.01	
For Elevated Installation >40', Add	8.81	
26 05 33 13-0753 LF 2-1/2" Intermediate Metal Conduit (IMC) Conduit .....	42.45	6.74
For >250 To 500, Deduct	-1.06	
For >500 To 1,000, Deduct	-1.59	
For >1,000, Deduct	-2.12	
For Installation In Metal Stud Wall, Add	2.12	
For Installation In Wood Stud Wall (Includes Drilling), Add	5.31	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	3.18	
For Work In Restricted Working Space, Add	6.37	
For Elevated Installation >10' To 15', Add	2.12	
For Elevated Installation >15' To 20', Add	4.24	
For Elevated Installation >20' To 25', Add	5.31	
For Elevated Installation >25' To 30', Add	7.43	
For Elevated Installation >30' To 35', Add	8.49	
For Elevated Installation >35' To 40', Add	10.61	
For Elevated Installation >40', Add	11.67	
26 05 33 13-0754 LF 3" Intermediate Metal Conduit (IMC) Conduit .....	54.24	8.44
For >250 To 500, Deduct	-1.31	
For >500 To 1,000, Deduct	-1.96	
For >1,000, Deduct	-2.61	
For Installation In Metal Stud Wall, Add	2.81	
For Installation In Wood Stud Wall (Includes Drilling), Add	7.03	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.22	
For Work In Restricted Working Space, Add	8.43	
For Elevated Installation >10' To 15', Add	2.81	
For Elevated Installation >15' To 20', Add	5.62	
For Elevated Installation >20' To 25', Add	7.03	
For Elevated Installation >25' To 30', Add	9.84	
For Elevated Installation >30' To 35', Add	11.24	
For Elevated Installation >35' To 40', Add	14.06	
For Elevated Installation >40', Add	15.46	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0755 LF 3-1/2" Intermediate Metal Conduit (IMC) Conduit .....	62.44	10.12
For >250 To 500, Deduct	-1.51	
For >500 To 1,000, Deduct	-2.27	
For >1,000, Deduct	-3.03	
For Installation In Metal Stud Wall, Add	3.22	
For Installation In Wood Stud Wall (Includes Drilling), Add	8.05	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	4.83	
For Work In Restricted Working Space, Add	9.65	
For Elevated Installation >10' To 15', Add	3.22	
For Elevated Installation >15' To 20', Add	6.44	
For Elevated Installation >20' To 25', Add	8.05	
For Elevated Installation >25' To 30', Add	11.26	
For Elevated Installation >30' To 35', Add	12.87	
For Elevated Installation >35' To 40', Add	16.09	
For Elevated Installation >40', Add	17.70	
26 05 33 13-0756 LF 4" Intermediate Metal Conduit (IMC) Conduit .....	73.15	11.80
For >250 To 500, Deduct	-1.78	
For >500 To 1,000, Deduct	-2.67	
For >1,000, Deduct	-3.56	
For Installation In Metal Stud Wall, Add	3.75	
For Installation In Wood Stud Wall (Includes Drilling), Add	9.38	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	5.63	
For Work In Restricted Working Space, Add	11.26	
For Elevated Installation >10' To 15', Add	3.75	
For Elevated Installation >15' To 20', Add	7.51	
For Elevated Installation >20' To 25', Add	9.38	
For Elevated Installation >25' To 30', Add	13.14	
For Elevated Installation >30' To 35', Add	15.01	
For Elevated Installation >35' To 40', Add	18.77	
For Elevated Installation >40', Add	20.64	
<b>26 05 33 13-0757 Intermediate Metal Conduit (IMC) 90 Degree Elbows</b> <small>(26 05 33 13-0745)</small>		
See CSI section 26 05 33 13-2319 for conduit field bending.		
26 05 33 13-0758 EA 1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	46.68	13.92
For Work In Restricted Working Space, Add	10.47	
For Elevated Installation >10' To 15', Add	3.49	
For Elevated Installation >15' To 20', Add	6.98	
For Elevated Installation >20' To 25', Add	8.73	
For Elevated Installation >25' To 30', Add	12.22	
For Elevated Installation >30' To 35', Add	13.96	
For Elevated Installation >35' To 40', Add	17.45	
For Elevated Installation >40', Add	19.20	
26 05 33 13-0759 EA 3/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	56.61	17.28
For Work In Restricted Working Space, Add	13.02	
For Elevated Installation >10' To 15', Add	4.34	
For Elevated Installation >15' To 20', Add	8.68	
For Elevated Installation >20' To 25', Add	10.85	
For Elevated Installation >25' To 30', Add	15.19	
For Elevated Installation >30' To 35', Add	17.36	
For Elevated Installation >35' To 40', Add	21.70	
For Elevated Installation >40', Add	23.86	
26 05 33 13-0760 EA 1" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	71.70	21.22
For Work In Restricted Working Space, Add	15.87	
For Elevated Installation >10' To 15', Add	5.29	
For Elevated Installation >15' To 20', Add	10.58	
For Elevated Installation >20' To 25', Add	13.23	
For Elevated Installation >25' To 30', Add	18.52	
For Elevated Installation >30' To 35', Add	21.16	
For Elevated Installation >35' To 40', Add	26.46	
For Elevated Installation >40', Add	29.10	
26 05 33 13-0761 EA 1-1/4" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	87.79	24.60
For Work In Restricted Working Space, Add	18.43	
For Elevated Installation >10' To 15', Add	6.14	
For Elevated Installation >15' To 20', Add	12.29	
For Elevated Installation >20' To 25', Add	15.36	
For Elevated Installation >25' To 30', Add	21.50	
For Elevated Installation >30' To 35', Add	24.58	
For Elevated Installation >35' To 40', Add	30.72	
For Elevated Installation >40', Add	33.79	
26 05 33 13-0762 EA 1-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	103.85	28.25
For Work In Restricted Working Space, Add	21.16	
For Elevated Installation >10' To 15', Add	7.05	
For Elevated Installation >15' To 20', Add	14.10	
For Elevated Installation >20' To 25', Add	17.63	
For Elevated Installation >25' To 30', Add	24.68	
For Elevated Installation >30' To 35', Add	28.21	
For Elevated Installation >35' To 40', Add	35.26	
For Elevated Installation >40', Add	38.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0763 EA 2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	125.54	31.06
<i>For Work In Restricted Working Space, Add</i>	23.27	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.76	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.51	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.39	
<i>For Elevated Installation &gt;25' To 30', Add</i>	27.15	
<i>For Elevated Installation &gt;30' To 35', Add</i>	31.03	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.79	
<i>For Elevated Installation &gt;40', Add</i>	42.66	
26 05 33 13-0764 EA 2-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	178.43	38.79
<i>For Work In Restricted Working Space, Add</i>	29.09	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.70	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.39	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.24	
<i>For Elevated Installation &gt;25' To 30', Add</i>	33.94	
<i>For Elevated Installation &gt;30' To 35', Add</i>	38.79	
<i>For Elevated Installation &gt;35' To 40', Add</i>	48.49	
<i>For Elevated Installation &gt;40', Add</i>	53.33	
26 05 33 13-0765 EA 3" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	256.80	52.85
<i>For Work In Restricted Working Space, Add</i>	39.63	
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.21	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.42	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	46.24	
<i>For Elevated Installation &gt;30' To 35', Add</i>	52.84	
<i>For Elevated Installation &gt;35' To 40', Add</i>	66.05	
<i>For Elevated Installation &gt;40', Add</i>	72.66	
26 05 33 13-0766 EA 3-1/2" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	369.15	59.59
<i>For Work In Restricted Working Space, Add</i>	44.70	
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.90	
<i>For Elevated Installation &gt;15' To 20', Add</i>	29.80	
<i>For Elevated Installation &gt;20' To 25', Add</i>	37.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	52.15	
<i>For Elevated Installation &gt;30' To 35', Add</i>	59.60	
<i>For Elevated Installation &gt;35' To 40', Add</i>	74.50	
<i>For Elevated Installation &gt;40', Add</i>	81.95	
26 05 33 13-0767 EA 4" Intermediate Metal Conduit (IMC) 90 Degree Elbow .....	449.29	77.59
<i>For Work In Restricted Working Space, Add</i>	58.18	
<i>For Elevated Installation &gt;10' To 15', Add</i>	19.39	
<i>For Elevated Installation &gt;15' To 20', Add</i>	38.78	
<i>For Elevated Installation &gt;20' To 25', Add</i>	48.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	67.87	
<i>For Elevated Installation &gt;30' To 35', Add</i>	77.57	
<i>For Elevated Installation &gt;35' To 40', Add</i>	96.96	
<i>For Elevated Installation &gt;40', Add</i>	106.66	
<b>26 05 33 13-0768 Intermediate Metal Conduit (IMC) Bushing Sets With Locknut</b> <small>(26 05 33 13-0745)</small>		
26 05 33 13-0769 EA 1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	19.09	7.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33 13-0770 EA 3/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	22.48	0.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-0771 EA 1" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	29.02	10.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33 13-0772 EA 1-1/4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	35.42	12.93
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.70	
26 05 33 13-0773 EA 1-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	39.56	14.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-0774 EA 2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	50.85	17.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.07	
26 05 33 13-0775 EA 2-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	92.99	28.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.08	
26 05 33 13-0776 EA 3" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	115.77	38.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.67	
26 05 33 13-0777 EA 3-1/2" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	150.35	45.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.16	
26 05 33 13-0778 EA 4" Intermediate Metal Conduit (IMC) Bushing Set With Locknut .....	177.26	52.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.63	
<b>26 05 33 13-0779 Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fittings</b> <small>(26 05 33 13-0745)</small>		
Note: 3-Piece coupling.		
26 05 33 13-0780 EA 1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting .....	62.61	22.49
<i>For Work In Restricted Working Space, Add</i>	16.89	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.63	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.26	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.07	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.70	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.52	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.15	
<i>For Elevated Installation &gt;40', Add</i>	30.96	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.89	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0781	EA	3/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	70.96	25.16
			<i>For Work In Restricted Working Space, Add</i>	18.85	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.28	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.56	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.71	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.13	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	31.41	
			<i>For Elevated Installation &gt;40', Add</i>	34.55	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.85	
26 05 33	13-0782	EA	1" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	85.67	27.97
			<i>For Work In Restricted Working Space, Add</i>	20.99	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.00	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.00	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.50	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.49	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.99	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	34.99	
			<i>For Elevated Installation &gt;40', Add</i>	38.49	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.99	
26 05 33	13-0783	EA	1-1/4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	105.44	30.64
			<i>For Work In Restricted Working Space, Add</i>	22.97	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.31	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.14	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.80	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.29	
			<i>For Elevated Installation &gt;40', Add</i>	42.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.97	
26 05 33	13-0784	EA	1-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	120.01	33.45
			<i>For Work In Restricted Working Space, Add</i>	25.13	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.32	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.51	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	41.89	
			<i>For Elevated Installation &gt;40', Add</i>	46.08	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.13	
26 05 33	13-0785	EA	2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	163.20	36.26
			<i>For Work In Restricted Working Space, Add</i>	27.22	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.07	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.15	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	36.29	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	45.37	
			<i>For Elevated Installation &gt;40', Add</i>	49.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.22	
26 05 33	13-0786	EA	2-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	267.46	44.98
			<i>For Work In Restricted Working Space, Add</i>	33.74	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
			<i>For Elevated Installation &gt;40', Add</i>	61.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.74	
26 05 33	13-0787	EA	3" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	376.94	56.22
			<i>For Work In Restricted Working Space, Add</i>	42.17	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	14.06	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	28.11	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	35.14	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	49.19	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	56.22	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	70.28	
			<i>For Elevated Installation &gt;40', Add</i>	77.30	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.17	
26 05 33	13-0788	EA	3-1/2" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	548.49	67.47
			<i>For Work In Restricted Working Space, Add</i>	50.62	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	16.87	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	33.74	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.18	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	59.05	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	67.49	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	84.36	
			<i>For Elevated Installation &gt;40', Add</i>	92.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.62	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0789 EA 4" Intermediate Metal Conduit (IMC) Erickson Or "Kwik-Couple" Fitting.....	632.22	73.09
<i>For Work In Restricted Working Space, Add</i>	54.81	
<i>For Elevated Installation &gt;10' To 15', Add</i>	18.27	
<i>For Elevated Installation &gt;15' To 20', Add</i>	36.54	
<i>For Elevated Installation &gt;20' To 25', Add</i>	45.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	63.95	
<i>For Elevated Installation &gt;30' To 35', Add</i>	73.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	91.35	
<i>For Elevated Installation &gt;40', Add</i>	100.49	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.81	
<b>26 05 33 13-0790 Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connectors <small>(26 05 33 13-0745)</small></b>		
26 05 33 13-0791 EA 1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector .....	34.99	11.24
<i>For Work In Restricted Working Space, Add</i>	8.43	
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.81	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.62	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.03	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.84	
<i>For Elevated Installation &gt;30' To 35', Add</i>	11.24	
<i>For Elevated Installation &gt;35' To 40', Add</i>	14.06	
<i>For Elevated Installation &gt;40', Add</i>	15.46	
26 05 33 13-0792 EA 3/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector .....	39.06	12.36
<i>For Work In Restricted Working Space, Add</i>	9.28	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.09	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.18	
<i>For Elevated Installation &gt;20' To 25', Add</i>	7.73	
<i>For Elevated Installation &gt;25' To 30', Add</i>	10.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	12.37	
<i>For Elevated Installation &gt;35' To 40', Add</i>	15.46	
<i>For Elevated Installation &gt;40', Add</i>	17.01	
26 05 33 13-0793 EA 1" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector .....	44.83	14.06
<i>For Work In Restricted Working Space, Add</i>	10.54	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
<i>For Elevated Installation &gt;40', Add</i>	19.33	
26 05 33 13-0794 EA 1-1/4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector .....	50.74	15.18
<i>For Work In Restricted Working Space, Add</i>	11.39	
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.80	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.59	
<i>For Elevated Installation &gt;20' To 25', Add</i>	9.49	
<i>For Elevated Installation &gt;25' To 30', Add</i>	13.28	
<i>For Elevated Installation &gt;30' To 35', Add</i>	15.18	
<i>For Elevated Installation &gt;35' To 40', Add</i>	18.98	
<i>For Elevated Installation &gt;40', Add</i>	20.87	
26 05 33 13-0795 EA 1-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector .....	59.99	16.86
<i>For Work In Restricted Working Space, Add</i>	12.65	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
<i>For Elevated Installation &gt;40', Add</i>	23.19	
26 05 33 13-0796 EA 2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector .....	72.73	18.56
<i>For Work In Restricted Working Space, Add</i>	13.91	
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.64	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.28	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.60	
<i>For Elevated Installation &gt;25' To 30', Add</i>	16.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.55	
<i>For Elevated Installation &gt;35' To 40', Add</i>	23.19	
<i>For Elevated Installation &gt;40', Add</i>	25.51	
26 05 33 13-0797 EA 2-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector .....	98.46	22.49
<i>For Work In Restricted Working Space, Add</i>	16.87	
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.24	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.11	
<i>For Elevated Installation &gt;40', Add</i>	30.92	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0798	EA	3" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	121.81	28.11
			<i>For Work In Restricted Working Space, Add</i>	21.08	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	14.05	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.57	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	28.11	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	35.14	
			<i>For Elevated Installation &gt;40', Add</i>	38.65	
26 05 33	13-0799	EA	3-1/2" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	146.33	33.73
			<i>For Work In Restricted Working Space, Add</i>	25.30	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.43	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.87	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.08	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	29.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	33.73	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	42.17	
			<i>For Elevated Installation &gt;40', Add</i>	46.38	
26 05 33	13-0800	EA	4" Rigid Galvanized Steel (RGS) Or Intermediate Metal Conduit (IMC) To Electrical Metallic Tubing (EMT) Connector	164.99	36.54
			<i>For Work In Restricted Working Space, Add</i>	27.41	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
			<i>For Elevated Installation &gt;40', Add</i>	50.25	
26 05 33	13-0801		<b>Intermediate Metal Conduit (IMC) Rain Tight Threaded Hubs</b> <small>(26 05 33 13-0745)</small>		
26 05 33	13-0802	EA	1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	30.99	11.24
			<i>For Work In Restricted Working Space, Add</i>	8.44	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.81	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.62	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.84	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.25	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	14.06	
			<i>For Elevated Installation &gt;40', Add</i>	15.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.44	
26 05 33	13-0803	EA	3/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	39.44	14.06
			<i>For Work In Restricted Working Space, Add</i>	10.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
			<i>For Elevated Installation &gt;40', Add</i>	19.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-0804	EA	1" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	48.52	16.86
			<i>For Work In Restricted Working Space, Add</i>	12.65	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
			<i>For Elevated Installation &gt;40', Add</i>	23.19	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.65	
26 05 33	13-0805	EA	1-1/4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	58.19	19.68
			<i>For Work In Restricted Working Space, Add</i>	14.76	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.92	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.84	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.30	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.22	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	19.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	24.60	
			<i>For Elevated Installation &gt;40', Add</i>	27.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.76	
26 05 33	13-0806	EA	1-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub	67.80	22.49
			<i>For Work In Restricted Working Space, Add</i>	16.86	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.24	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.67	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.48	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.11	
			<i>For Elevated Installation &gt;40', Add</i>	30.92	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0807 EA 2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub .....	79.98	25.30
For Work In Restricted Working Space, Add	18.97	
For Elevated Installation >10' To 15', Add	6.32	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.13	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.62	
For Elevated Installation >40', Add	34.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.97	
26 05 33 13-0808 EA 2-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub .....	98.33	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
26 05 33 13-0809 EA 3" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub .....	115.08	30.92
For Work In Restricted Working Space, Add	23.19	
For Elevated Installation >10' To 15', Add	7.73	
For Elevated Installation >15' To 20', Add	15.46	
For Elevated Installation >20' To 25', Add	19.33	
For Elevated Installation >25' To 30', Add	27.06	
For Elevated Installation >30' To 35', Add	30.92	
For Elevated Installation >35' To 40', Add	38.65	
For Elevated Installation >40', Add	42.52	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.19	
26 05 33 13-0810 EA 3-1/2" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub .....	140.34	36.54
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.41	
26 05 33 13-0811 EA 4" Intermediate Metal Conduit (IMC) Rain Tight Threaded Hub .....	160.19	39.36
For Work In Restricted Working Space, Add	29.51	
For Elevated Installation >10' To 15', Add	9.84	
For Elevated Installation >15' To 20', Add	19.68	
For Elevated Installation >20' To 25', Add	24.60	
For Elevated Installation >25' To 30', Add	34.43	
For Elevated Installation >30' To 35', Add	39.35	
For Elevated Installation >35' To 40', Add	49.19	
For Elevated Installation >40', Add	54.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.51	
<b>26 05 33 13-0812 Intermediate Metal Conduit (IMC) Expansion Fittings (26 05 33 13-0745)</b>		
26 05 33 13-0813 EA 1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....	180.24	22.49
For Work In Restricted Working Space, Add	16.87	
For Elevated Installation >10' To 15', Add	5.62	
For Elevated Installation >15' To 20', Add	11.25	
For Elevated Installation >20' To 25', Add	14.06	
For Elevated Installation >25' To 30', Add	19.68	
For Elevated Installation >30' To 35', Add	22.49	
For Elevated Installation >35' To 40', Add	28.12	
For Elevated Installation >40', Add	30.93	
26 05 33 13-0814 EA 3/4" Intermediate Metal Conduit (IMC) Expansion Fitting .....	199.66	25.30
For Work In Restricted Working Space, Add	18.98	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
26 05 33 13-0815 EA 1" Intermediate Metal Conduit (IMC) Expansion Fitting .....	221.88	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.06	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.60	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0816 EA 1-1/4" Intermediate Metal Conduit (IMC) Expansion Fitting .....	266.41	30.92
For Work In Restricted Working Space, Add	23.19	
For Elevated Installation >10' To 15', Add	7.73	
For Elevated Installation >15' To 20', Add	15.46	
For Elevated Installation >20' To 25', Add	19.33	
For Elevated Installation >25' To 30', Add	27.06	
For Elevated Installation >30' To 35', Add	30.92	
For Elevated Installation >35' To 40', Add	38.65	
For Elevated Installation >40', Add	42.52	
26 05 33 13-0817 EA 1-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....	324.20	33.73
For Work In Restricted Working Space, Add	25.30	
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
26 05 33 13-0818 EA 2" Intermediate Metal Conduit (IMC) Expansion Fitting .....	422.14	36.54
For Work In Restricted Working Space, Add	27.41	
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.97	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.24	
26 05 33 13-0819 EA 2-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....	632.04	44.98
For Work In Restricted Working Space, Add	33.74	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.36	
For Elevated Installation >30' To 35', Add	44.98	
For Elevated Installation >35' To 40', Add	56.23	
For Elevated Installation >40', Add	61.85	
26 05 33 13-0820 EA 3" Intermediate Metal Conduit (IMC) Expansion Fitting .....	760.97	56.22
For Work In Restricted Working Space, Add	42.17	
For Elevated Installation >10' To 15', Add	14.06	
For Elevated Installation >15' To 20', Add	28.11	
For Elevated Installation >20' To 25', Add	35.14	
For Elevated Installation >25' To 30', Add	49.19	
For Elevated Installation >30' To 35', Add	56.22	
For Elevated Installation >35' To 40', Add	70.28	
For Elevated Installation >40', Add	77.30	
26 05 33 13-0821 EA 3-1/2" Intermediate Metal Conduit (IMC) Expansion Fitting .....	1,055.01	67.47
For Work In Restricted Working Space, Add	50.60	
For Elevated Installation >10' To 15', Add	16.87	
For Elevated Installation >15' To 20', Add	33.74	
For Elevated Installation >20' To 25', Add	42.17	
For Elevated Installation >25' To 30', Add	59.04	
For Elevated Installation >30' To 35', Add	67.47	
For Elevated Installation >35' To 40', Add	84.34	
For Elevated Installation >40', Add	92.77	
26 05 33 13-0822 EA 4" Intermediate Metal Conduit (IMC) Expansion Fitting .....	1,217.53	73.09
For Work In Restricted Working Space, Add	54.81	
For Elevated Installation >10' To 15', Add	18.27	
For Elevated Installation >15' To 20', Add	36.54	
For Elevated Installation >20' To 25', Add	45.68	
For Elevated Installation >25' To 30', Add	63.95	
For Elevated Installation >30' To 35', Add	73.08	
For Elevated Installation >35' To 40', Add	91.35	
For Elevated Installation >40', Add	100.49	
<b>26 05 33 13-0823 Intermediate Metal Conduit (IMC) Sealing Fittings, Vertical/Horizontal</b> <small>(26 05 33 13-0745)</small>		
26 05 33 13-0824 EA 1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....	117.99	35.14
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
26 05 33 13-0825 EA 3/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal .....	140.37	42.16
For Work In Restricted Working Space, Add	25.30	
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0826 EA 1" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	170.41	49.19
For Work In Restricted Working Space, Add	29.52	
For Elevated Installation >10' To 15', Add	9.84	
For Elevated Installation >15' To 20', Add	19.68	
For Elevated Installation >20' To 25', Add	24.60	
For Elevated Installation >25' To 30', Add	34.44	
For Elevated Installation >30' To 35', Add	39.36	
For Elevated Installation >35' To 40', Add	49.20	
For Elevated Installation >40', Add	54.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.52	
26 05 33 13-0827 EA 1-1/4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	199.91	56.22
For Work In Restricted Working Space, Add	33.74	
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.36	
For Elevated Installation >30' To 35', Add	44.98	
For Elevated Installation >35' To 40', Add	56.23	
For Elevated Installation >40', Add	61.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	33.74	
26 05 33 13-0828 EA 1-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	258.17	63.25
For Work In Restricted Working Space, Add	37.95	
For Elevated Installation >10' To 15', Add	12.65	
For Elevated Installation >15' To 20', Add	25.30	
For Elevated Installation >20' To 25', Add	31.62	
For Elevated Installation >25' To 30', Add	44.27	
For Elevated Installation >30' To 35', Add	50.60	
For Elevated Installation >35' To 40', Add	63.25	
For Elevated Installation >40', Add	69.57	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.95	
26 05 33 13-0829 EA 2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	311.16	70.27
For Work In Restricted Working Space, Add	42.17	
For Elevated Installation >10' To 15', Add	14.06	
For Elevated Installation >15' To 20', Add	28.11	
For Elevated Installation >20' To 25', Add	35.14	
For Elevated Installation >25' To 30', Add	49.19	
For Elevated Installation >30' To 35', Add	56.22	
For Elevated Installation >35' To 40', Add	70.28	
For Elevated Installation >40', Add	77.30	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.17	
26 05 33 13-0830 EA 2-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	433.73	84.33
For Work In Restricted Working Space, Add	50.60	
For Elevated Installation >10' To 15', Add	16.87	
For Elevated Installation >15' To 20', Add	33.73	
For Elevated Installation >20' To 25', Add	42.17	
For Elevated Installation >25' To 30', Add	59.03	
For Elevated Installation >30' To 35', Add	67.46	
For Elevated Installation >35' To 40', Add	84.33	
For Elevated Installation >40', Add	92.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.60	
26 05 33 13-0831 EA 3" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	520.57	98.39
For Work In Restricted Working Space, Add	59.03	
For Elevated Installation >10' To 15', Add	19.68	
For Elevated Installation >15' To 20', Add	39.35	
For Elevated Installation >20' To 25', Add	49.19	
For Elevated Installation >25' To 30', Add	68.87	
For Elevated Installation >30' To 35', Add	78.71	
For Elevated Installation >35' To 40', Add	98.39	
For Elevated Installation >40', Add	108.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.03	
26 05 33 13-0832 EA 3-1/2" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	1,158.74	112.45
For Work In Restricted Working Space, Add	67.46	
For Elevated Installation >10' To 15', Add	22.49	
For Elevated Installation >15' To 20', Add	44.98	
For Elevated Installation >20' To 25', Add	56.22	
For Elevated Installation >25' To 30', Add	78.71	
For Elevated Installation >30' To 35', Add	89.95	
For Elevated Installation >35' To 40', Add	112.44	
For Elevated Installation >40', Add	123.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.46	
26 05 33 13-0833 EA 4" Intermediate Metal Conduit (IMC) Sealing Fitting, Vertical/Horizontal.....	1,333.80	126.49
For Work In Restricted Working Space, Add	75.90	
For Elevated Installation >10' To 15', Add	25.30	
For Elevated Installation >15' To 20', Add	50.60	
For Elevated Installation >20' To 25', Add	63.25	
For Elevated Installation >25' To 30', Add	88.55	
For Elevated Installation >30' To 35', Add	101.20	
For Elevated Installation >35' To 40', Add	126.50	
For Elevated Installation >40', Add	139.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	75.90	

26 05 33 13-0834 Intermediate Metal Conduit (IMC) Threaded Couplings (26 05 33 13-0745)

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0835 EA 1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	18.49	6.74
For Work In Restricted Working Space, Add	5.06	
For Elevated Installation >10' To 15', Add	1.69	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.22	
For Elevated Installation >25' To 30', Add	5.90	
For Elevated Installation >30' To 35', Add	6.74	
For Elevated Installation >35' To 40', Add	8.43	
For Elevated Installation >40', Add	9.27	
26 05 33 13-0836 EA 3/4" Intermediate Metal Conduit (IMC) Threaded Coupling .....	25.89	9.56
For Work In Restricted Working Space, Add	7.17	
For Elevated Installation >10' To 15', Add	2.39	
For Elevated Installation >15' To 20', Add	4.78	
For Elevated Installation >20' To 25', Add	5.98	
For Elevated Installation >25' To 30', Add	8.37	
For Elevated Installation >30' To 35', Add	9.56	
For Elevated Installation >35' To 40', Add	11.96	
For Elevated Installation >40', Add	13.15	
26 05 33 13-0837 EA 1" Intermediate Metal Conduit (IMC) Threaded Coupling .....	33.85	12.36
For Work In Restricted Working Space, Add	9.27	
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.36	
For Elevated Installation >35' To 40', Add	15.45	
For Elevated Installation >40', Add	17.00	
26 05 33 13-0838 EA 1-1/4" Intermediate Metal Conduit (IMC) Threaded Coupling .....	38.82	14.06
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
26 05 33 13-0839 EA 1-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	46.79	16.86
For Work In Restricted Working Space, Add	12.64	
For Elevated Installation >10' To 15', Add	4.21	
For Elevated Installation >15' To 20', Add	8.43	
For Elevated Installation >20' To 25', Add	10.54	
For Elevated Installation >25' To 30', Add	14.75	
For Elevated Installation >30' To 35', Add	16.86	
For Elevated Installation >35' To 40', Add	21.07	
For Elevated Installation >40', Add	23.18	
26 05 33 13-0840 EA 2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	53.93	19.12
For Work In Restricted Working Space, Add	14.34	
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.95	
For Elevated Installation >25' To 30', Add	16.73	
For Elevated Installation >30' To 35', Add	19.12	
For Elevated Installation >35' To 40', Add	23.91	
For Elevated Installation >40', Add	26.30	
26 05 33 13-0841 EA 2-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	66.96	21.36
For Work In Restricted Working Space, Add	16.02	
For Elevated Installation >10' To 15', Add	5.34	
For Elevated Installation >15' To 20', Add	10.68	
For Elevated Installation >20' To 25', Add	13.35	
For Elevated Installation >25' To 30', Add	18.69	
For Elevated Installation >30' To 35', Add	21.36	
For Elevated Installation >35' To 40', Add	26.70	
For Elevated Installation >40', Add	29.37	
26 05 33 13-0842 EA 3" Intermediate Metal Conduit (IMC) Threaded Coupling .....	78.96	24.18
For Work In Restricted Working Space, Add	18.13	
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.09	
For Elevated Installation >20' To 25', Add	15.11	
For Elevated Installation >25' To 30', Add	21.15	
For Elevated Installation >30' To 35', Add	24.18	
For Elevated Installation >35' To 40', Add	30.22	
For Elevated Installation >40', Add	33.24	
26 05 33 13-0843 EA 3-1/2" Intermediate Metal Conduit (IMC) Threaded Coupling .....	90.84	26.42
For Work In Restricted Working Space, Add	19.82	
For Elevated Installation >10' To 15', Add	6.61	
For Elevated Installation >15' To 20', Add	13.22	
For Elevated Installation >20' To 25', Add	16.52	
For Elevated Installation >25' To 30', Add	23.13	
For Elevated Installation >30' To 35', Add	26.43	
For Elevated Installation >35' To 40', Add	33.04	
For Elevated Installation >40', Add	36.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0844 EA 4" Intermediate Metal Conduit (IMC) Threaded Coupling .....	95.21	28.11
<i>For Work In Restricted Working Space, Add</i>	21.08	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.05	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.56	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	28.10	
<i>For Elevated Installation &gt;35' To 40', Add</i>	35.13	
<i>For Elevated Installation &gt;40', Add</i>	38.64	
 26 05 33 13-0845 Intermediate Metal Conduit (IMC) Reducer Bushings <small>(26 05 33 13-0745)</small>		
26 05 33 13-0846 EA 1/2" To 3/4" Intermediate Metal Conduit (IMC) Reducing Bushing .....	8.84	2.82
<i>For Work In Restricted Working Space, Add</i>	2.11	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.70	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.40	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.76	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.46	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.81	
<i>For Elevated Installation &gt;35' To 40', Add</i>	3.51	
<i>For Elevated Installation &gt;40', Add</i>	3.86	
26 05 33 13-0847 EA 3/4" To 1" Intermediate Metal Conduit (IMC) Reducing Bushing .....	9.89	2.82
<i>For Work In Restricted Working Space, Add</i>	2.11	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.70	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.40	
<i>For Elevated Installation &gt;20' To 25', Add</i>	1.76	
<i>For Elevated Installation &gt;25' To 30', Add</i>	2.46	
<i>For Elevated Installation &gt;30' To 35', Add</i>	2.81	
<i>For Elevated Installation &gt;35' To 40', Add</i>	3.51	
<i>For Elevated Installation &gt;40', Add</i>	3.86	
 26 05 33 13-0848 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0059)</small>		
<small>Note: 40 mil polyvinyl chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney). Used in hazardous locations. Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.</small>		
 26 05 33 13-0849 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit <small>(26 05 33 13-0849)</small>		
<small>Note: Includes field bending for conduit up to 1".</small>		
26 05 33 13-0850 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	15.49	3.94
<i>For &gt;250 To 500, Deduct</i>	-0.53	
<i>For &gt;500 To 1,000, Deduct</i>	-0.92	
<i>For &gt;1,000, Deduct</i>	-1.30	
<i>For Elevated Installation &gt;10' To 15', Add</i>	0.98	
<i>For Elevated Installation &gt;15' To 20', Add</i>	1.97	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.46	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.44	
<i>For Elevated Installation &gt;30' To 35', Add</i>	3.94	
<i>For Elevated Installation &gt;35' To 40', Add</i>	4.92	
<i>For Elevated Installation &gt;40', Add</i>	5.41	
<i>For Work In Restricted Working Space, Add</i>	2.95	
26 05 33 13-0851 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	17.79	4.50
<i>For &gt;250 To 500, Deduct</i>	-0.61	
<i>For &gt;500 To 1,000, Deduct</i>	-1.05	
<i>For &gt;1,000, Deduct</i>	-1.50	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.12	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.25	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.81	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.93	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.50	
<i>For Elevated Installation &gt;35' To 40', Add</i>	5.62	
<i>For Elevated Installation &gt;40', Add</i>	6.18	
<i>For Work In Restricted Working Space, Add</i>	3.37	
26 05 33 13-0852 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	22.54	5.62
<i>For &gt;250 To 500, Deduct</i>	-0.78	
<i>For &gt;500 To 1,000, Deduct</i>	-1.34	
<i>For &gt;1,000, Deduct</i>	-1.90	
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.41	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.81	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.92	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.62	
<i>For Elevated Installation &gt;35' To 40', Add</i>	7.03	
<i>For Elevated Installation &gt;40', Add</i>	7.73	
<i>For Work In Restricted Working Space, Add</i>	4.22	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0853	LF	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	27.61	6.74
			<i>For &gt;250 To 500, Deduct</i>	-0.96	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.65	
			<i>For &gt;1,000, Deduct</i>	-2.34	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	1.69	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	3.37	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	4.22	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	5.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	6.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	8.43	
			<i>For Elevated Installation &gt;40', Add</i>	9.27	
			<i>For Work In Restricted Working Space, Add</i>	5.06	
26 05 33	13-0854	LF	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	34.15	8.44
			<i>For &gt;250 To 500, Deduct</i>	-1.18	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.03	
			<i>For &gt;1,000, Deduct</i>	-2.89	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.38	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.54	
			<i>For Elevated Installation &gt;40', Add</i>	11.59	
			<i>For Work In Restricted Working Space, Add</i>	6.32	
26 05 33	13-0855	LF	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	42.34	10.12
			<i>For &gt;250 To 500, Deduct</i>	-1.48	
			<i>For &gt;500 To 1,000, Deduct</i>	-2.54	
			<i>For &gt;1,000, Deduct</i>	-3.60	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.53	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.33	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.86	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	12.65	
			<i>For Elevated Installation &gt;40', Add</i>	13.92	
			<i>For Work In Restricted Working Space, Add</i>	7.59	
26 05 33	13-0856	LF	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	55.35	11.80
			<i>For &gt;250 To 500, Deduct</i>	-2.03	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.41	
			<i>For &gt;1,000, Deduct</i>	-4.80	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.95	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.90	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	7.38	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	10.33	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	11.81	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	14.76	
			<i>For Elevated Installation &gt;40', Add</i>	16.24	
			<i>For Work In Restricted Working Space, Add</i>	8.86	
26 05 33	13-0857	LF	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	69.11	14.62
			<i>For &gt;250 To 500, Deduct</i>	-2.54	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.27	
			<i>For &gt;1,000, Deduct</i>	-6.00	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.65	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.31	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	9.14	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.79	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.62	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	18.27	
			<i>For Elevated Installation &gt;40', Add</i>	20.10	
			<i>For Work In Restricted Working Space, Add</i>	10.96	
26 05 33	13-0858	LF	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	84.83	17.99
			<i>For &gt;250 To 500, Deduct</i>	-3.12	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.24	
			<i>For &gt;1,000, Deduct</i>	-7.36	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.50	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.00	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.25	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.74	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.99	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.49	
			<i>For Elevated Installation &gt;40', Add</i>	24.74	
			<i>For Work In Restricted Working Space, Add</i>	13.49	
26 05 33	13-0859	LF	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	100.38	21.36
			<i>For &gt;250 To 500, Deduct</i>	-3.68	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.19	
			<i>For &gt;1,000, Deduct</i>	-8.70	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.34	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.68	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.35	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	18.69	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	21.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	26.71	
			<i>For Elevated Installation &gt;40', Add</i>	29.38	
			<i>For Work In Restricted Working Space, Add</i>	16.02	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0860 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	146.49	25.30
For >250 To 500, Deduct	-5.74	
For >500 To 1,000, Deduct	-9.41	
For >1,000, Deduct	-13.07	
For Elevated Installation >10' To 15', Add	6.33	
For Elevated Installation >15' To 20', Add	12.65	
For Elevated Installation >20' To 25', Add	15.81	
For Elevated Installation >25' To 30', Add	22.14	
For Elevated Installation >30' To 35', Add	25.30	
For Elevated Installation >35' To 40', Add	31.63	
For Elevated Installation >40', Add	34.79	
For Work In Restricted Working Space, Add	18.98	
26 05 33 13-0861 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit.....	198.41	33.73
For >250 To 500, Deduct	-7.81	
For >500 To 1,000, Deduct	-12.77	
For >1,000, Deduct	-17.73	
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
For Work In Restricted Working Space, Add	25.30	
<b>26 05 33 13-0862 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings <small>(26 05 33 13-0848)</small></b>		
26 05 33 13-0863 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	22.83	8.44
For Elevated Installation >10' To 15', Add	1.69	
For Elevated Installation >15' To 20', Add	3.37	
For Elevated Installation >20' To 25', Add	4.22	
For Elevated Installation >25' To 30', Add	5.90	
For Elevated Installation >30' To 35', Add	6.74	
For Elevated Installation >35' To 40', Add	8.43	
For Elevated Installation >40', Add	9.27	
For Work In Restricted Working Space, Add	5.06	
26 05 33 13-0864 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	30.16	11.94
For Elevated Installation >10' To 15', Add	2.39	
For Elevated Installation >15' To 20', Add	4.78	
For Elevated Installation >20' To 25', Add	5.98	
For Elevated Installation >25' To 30', Add	8.37	
For Elevated Installation >30' To 35', Add	9.56	
For Elevated Installation >35' To 40', Add	11.95	
For Elevated Installation >40', Add	13.15	
For Work In Restricted Working Space, Add	7.17	
26 05 33 13-0865 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	39.04	15.46
For Elevated Installation >10' To 15', Add	3.09	
For Elevated Installation >15' To 20', Add	6.18	
For Elevated Installation >20' To 25', Add	7.73	
For Elevated Installation >25' To 30', Add	10.82	
For Elevated Installation >30' To 35', Add	12.37	
For Elevated Installation >35' To 40', Add	15.46	
For Elevated Installation >40', Add	17.01	
For Work In Restricted Working Space, Add	9.28	
26 05 33 13-0866 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	44.61	17.57
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
For Work In Restricted Working Space, Add	10.54	
26 05 33 13-0867 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	53.42	21.08
For Elevated Installation >10' To 15', Add	4.22	
For Elevated Installation >15' To 20', Add	8.43	
For Elevated Installation >20' To 25', Add	10.54	
For Elevated Installation >25' To 30', Add	14.76	
For Elevated Installation >30' To 35', Add	16.86	
For Elevated Installation >35' To 40', Add	21.08	
For Elevated Installation >40', Add	23.19	
For Work In Restricted Working Space, Add	12.65	
26 05 33 13-0868 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	64.27	23.90
For Elevated Installation >10' To 15', Add	4.78	
For Elevated Installation >15' To 20', Add	9.56	
For Elevated Installation >20' To 25', Add	11.95	
For Elevated Installation >25' To 30', Add	16.73	
For Elevated Installation >30' To 35', Add	19.12	
For Elevated Installation >35' To 40', Add	23.90	
For Elevated Installation >40', Add	26.28	
For Work In Restricted Working Space, Add	14.34	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0869 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	94.20	23.90
For Elevated Installation >10' To 15', Add	5.34	
For Elevated Installation >15' To 20', Add	10.68	
For Elevated Installation >20' To 25', Add	13.35	
For Elevated Installation >25' To 30', Add	18.69	
For Elevated Installation >30' To 35', Add	21.36	
For Elevated Installation >35' To 40', Add	26.71	
For Elevated Installation >40', Add	29.38	
For Work In Restricted Working Space, Add	16.02	
26 05 33 13-0870 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	109.98	33.03
For Elevated Installation >10' To 15', Add	6.04	
For Elevated Installation >15' To 20', Add	12.09	
For Elevated Installation >20' To 25', Add	15.11	
For Elevated Installation >25' To 30', Add	21.15	
For Elevated Installation >30' To 35', Add	24.18	
For Elevated Installation >35' To 40', Add	30.22	
For Elevated Installation >40', Add	33.24	
For Work In Restricted Working Space, Add	18.13	
26 05 33 13-0871 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling.....	129.61	33.03
For Elevated Installation >10' To 15', Add	6.61	
For Elevated Installation >15' To 20', Add	13.21	
For Elevated Installation >20' To 25', Add	16.52	
For Elevated Installation >25' To 30', Add	23.12	
For Elevated Installation >30' To 35', Add	26.42	
For Elevated Installation >35' To 40', Add	33.03	
For Elevated Installation >40', Add	36.33	
For Work In Restricted Working Space, Add	19.82	
26 05 33 13-0872 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	144.57	35.14
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Work In Restricted Working Space, Add	21.08	
26 05 33 13-0873 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	326.45	42.16
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
For Work In Restricted Working Space, Add	25.30	
26 05 33 13-0874 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling .....	368.85	49.19
For Elevated Installation >10' To 15', Add	9.84	
For Elevated Installation >15' To 20', Add	19.68	
For Elevated Installation >20' To 25', Add	24.60	
For Elevated Installation >25' To 30', Add	34.44	
For Elevated Installation >30' To 35', Add	39.36	
For Elevated Installation >35' To 40', Add	49.20	
For Elevated Installation >40', Add	54.11	
For Work In Restricted Working Space, Add	29.52	
<b>26 05 33 13-0875 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel</b>		
<b>(RGS) Standard Radius Elbows <small>(26 05 33 13-0848)</small></b>		
Note: 90, 45, or 30 degree.		
26 05 33 13-0876 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	66.61	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.14	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.99	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
26 05 33 13-0877 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	78.36	28.32
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.66	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
For Work In Restricted Working Space, Add	16.99	
26 05 33 13-0878 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow .....	94.34	34.72
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
For Work In Restricted Working Space, Add	20.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0879 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	111.01	40.20
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.21	
For Work In Restricted Working Space, Add	24.12	
26 05 33 13-0880 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	128.98	45.68
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
For Work In Restricted Working Space, Add	27.41	
26 05 33 13-0881 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	153.00	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-0882 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	225.00	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
26 05 33 13-0883 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	329.83	85.87
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
For Work In Restricted Working Space, Add	51.53	
26 05 33 13-0884 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	401.10	96.84
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
For Work In Restricted Working Space, Add	58.10	
26 05 33 13-0885 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	471.41	126.07
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.25	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.68	
For Work In Restricted Working Space, Add	75.65	
26 05 33 13-0886 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	939.49	205.55
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
For Work In Restricted Working Space, Add	123.33	
26 05 33 13-0887 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow.....	1,466.90	308.79
For Elevated Installation >10' To 15', Add	61.76	
For Elevated Installation >15' To 20', Add	123.52	
For Elevated Installation >20' To 25', Add	154.40	
For Elevated Installation >25' To 30', Add	216.15	
For Elevated Installation >30' To 35', Add	247.03	
For Elevated Installation >35' To 40', Add	308.79	
For Elevated Installation >40', Add	339.67	
For Work In Restricted Working Space, Add	185.27	
26 05 33 13-0888 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows (26 05 33 13-0848)		

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-0889	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	143.66 6.94 13.89 17.36 24.30 27.77 34.72 38.19 20.83	34.72
26 05 33	13-0890	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	162.50 8.04 16.08 20.10 28.14 32.16 40.20 44.21 24.12	40.20
26 05 33	13-0891	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	185.36 9.14 18.27 22.84 31.98 36.54 45.68 50.25 27.41	45.68
26 05 33	13-0892	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	218.05 10.05 20.10 25.12 35.17 40.20 50.25 55.27 30.15	50.25
26 05 33	13-0893	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	298.62 12.61 25.21 31.52 44.12 50.43 63.04 69.34 37.82	63.04
<b>26 05 33 13-0894 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows <small>(26 05 33 13-0848)</small></b>					
26 05 33	13-0895	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	157.00 6.94 13.89 17.36 24.30 27.77 34.72 38.19 20.83	34.72
26 05 33	13-0896	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	184.53 8.04 16.08 20.10 28.14 32.16 40.20 44.21 24.12	40.20
26 05 33	13-0897	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	201.16 9.14 18.27 22.84 31.98 36.54 45.68 50.25 27.41	45.68
26 05 33	13-0898	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	252.50 10.05 20.10 25.12 35.17 40.20 50.25 55.27 30.15	50.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0899 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	331.85	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
26 05 33 13-0900 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow.....	428.37	85.87
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
For Work In Restricted Working Space, Add	51.53	
<b>26 05 33 13-0901 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows <small>(26 05 33 13-0848)</small></b>		
26 05 33 13-0902 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	172.95	34.72
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
For Work In Restricted Working Space, Add	20.83	
26 05 33 13-0903 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	196.01	40.20
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.21	
For Work In Restricted Working Space, Add	24.12	
26 05 33 13-0904 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	221.43	45.68
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
For Work In Restricted Working Space, Add	27.41	
26 05 33 13-0905 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	263.93	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-0906 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	370.03	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
26 05 33 13-0907 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	473.19	85.87
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
For Work In Restricted Working Space, Add	51.53	
26 05 33 13-0908 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow.....	588.83	96.84
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
For Work In Restricted Working Space, Add	58.10	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0909 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow .....	675.93	126.07
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.25	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.68	
For Work In Restricted Working Space, Add	75.65	
<b>26 05 33 13-0910 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows (26 05 33 13-0848)</b>		
26 05 33 13-0911 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	200.49	34.72
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
For Work In Restricted Working Space, Add	20.83	
26 05 33 13-0912 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	222.95	40.20
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.21	
For Work In Restricted Working Space, Add	24.12	
26 05 33 13-0913 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	252.02	45.68
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
For Work In Restricted Working Space, Add	27.41	
26 05 33 13-0914 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	307.98	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-0915 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	438.36	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
26 05 33 13-0916 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	549.14	85.87
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
For Work In Restricted Working Space, Add	51.53	
26 05 33 13-0917 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	635.20	96.84
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
For Work In Restricted Working Space, Add	58.10	
26 05 33 13-0918 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow .....	761.06	126.07
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.25	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.68	
For Work In Restricted Working Space, Add	75.65	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 33	13-0919		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows</b> <small>(26 05 33 13-0848)</small>		
26 05 33	13-0920	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	221.93	34.72
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
			<i>For Elevated Installation &gt;40', Add</i>	38.19	
			<i>For Work In Restricted Working Space, Add</i>	20.83	
26 05 33	13-0921	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	248.04	40.20
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
			<i>For Elevated Installation &gt;40', Add</i>	44.21	
			<i>For Work In Restricted Working Space, Add</i>	24.12	
26 05 33	13-0922	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	282.13	45.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
			<i>For Elevated Installation &gt;40', Add</i>	50.25	
			<i>For Work In Restricted Working Space, Add</i>	27.41	
26 05 33	13-0923	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	346.33	50.25
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
			<i>For Elevated Installation &gt;40', Add</i>	55.27	
			<i>For Work In Restricted Working Space, Add</i>	30.15	
26 05 33	13-0924	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	475.64	63.04
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	50.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	63.04	
			<i>For Elevated Installation &gt;40', Add</i>	69.34	
			<i>For Work In Restricted Working Space, Add</i>	37.82	
26 05 33	13-0925	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	609.88	85.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	60.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88	
			<i>For Elevated Installation &gt;40', Add</i>	94.46	
			<i>For Work In Restricted Working Space, Add</i>	51.53	
26 05 33	13-0926	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	747.94	96.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	19.37	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	38.74	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	48.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	67.79	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	77.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	96.84	
			<i>For Elevated Installation &gt;40', Add</i>	106.52	
			<i>For Work In Restricted Working Space, Add</i>	58.10	
26 05 33	13-0927	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	839.20	126.07
			<i>For Elevated Installation &gt;10' To 15', Add</i>	25.22	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	126.08	
			<i>For Elevated Installation &gt;40', Add</i>	138.68	
			<i>For Work In Restricted Working Space, Add</i>	75.65	
26 05 33	13-0928	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow .....	1,395.70	205.55
			<i>For Elevated Installation &gt;10' To 15', Add</i>	41.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	82.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	102.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	143.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	164.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	205.56	
			<i>For Elevated Installation &gt;40', Add</i>	226.11	
			<i>For Work In Restricted Working Space, Add</i>	123.33	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-0929		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows</b> <small>(26 05 33 13-0848)</small>			
26 05 33 13-0930	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	249.96		34.72
		<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72		
		<i>For Elevated Installation &gt;40', Add</i>	38.19		
		<i>For Work In Restricted Working Space, Add</i>	20.83		
26 05 33 13-0931	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	278.34		40.20
		<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20		
		<i>For Elevated Installation &gt;40', Add</i>	44.21		
		<i>For Work In Restricted Working Space, Add</i>	24.12		
26 05 33 13-0932	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	315.14		45.68
		<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68		
		<i>For Elevated Installation &gt;40', Add</i>	50.25		
		<i>For Work In Restricted Working Space, Add</i>	27.41		
26 05 33 13-0933	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	388.86		50.25
		<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25		
		<i>For Elevated Installation &gt;40', Add</i>	55.27		
		<i>For Work In Restricted Working Space, Add</i>	30.15		
26 05 33 13-0934	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	537.77		63.04
		<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	50.43		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	63.04		
		<i>For Elevated Installation &gt;40', Add</i>	69.34		
		<i>For Work In Restricted Working Space, Add</i>	37.82		
26 05 33 13-0935	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	687.28		85.87
		<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	60.11		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88		
		<i>For Elevated Installation &gt;40', Add</i>	94.46		
		<i>For Work In Restricted Working Space, Add</i>	51.53		
26 05 33 13-0936	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	804.44		96.84
		<i>For Elevated Installation &gt;10' To 15', Add</i>	19.37		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	38.74		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	48.42		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	67.79		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	77.47		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	96.84		
		<i>For Elevated Installation &gt;40', Add</i>	106.52		
		<i>For Work In Restricted Working Space, Add</i>	58.10		
26 05 33 13-0937	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	940.09		126.07
		<i>For Elevated Installation &gt;10' To 15', Add</i>	25.22		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	126.08		
		<i>For Elevated Installation &gt;40', Add</i>	138.68		
		<i>For Work In Restricted Working Space, Add</i>	75.65		
26 05 33 13-0938	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	1,466.40		205.55
		<i>For Elevated Installation &gt;10' To 15', Add</i>	41.11		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	82.22		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	102.78		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	143.89		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	164.44		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	205.56		
		<i>For Elevated Installation &gt;40', Add</i>	226.11		
		<i>For Work In Restricted Working Space, Add</i>	123.33		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0939 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow .....	2,025.56	308.79
For Elevated Installation >10' To 15', Add	61.76	
For Elevated Installation >15' To 20', Add	123.52	
For Elevated Installation >20' To 25', Add	154.40	
For Elevated Installation >25' To 30', Add	216.15	
For Elevated Installation >30' To 35', Add	247.03	
For Elevated Installation >35' To 40', Add	308.79	
For Elevated Installation >40', Add	339.67	
For Work In Restricted Working Space, Add	185.27	
26 05 33 13-0940 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows <small>(26 05 33 13-0848)</small>		
26 05 33 13-0941 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	288.98	34.72
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
For Work In Restricted Working Space, Add	20.83	
26 05 33 13-0942 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	305.36	40.20
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.22	
For Work In Restricted Working Space, Add	24.12	
26 05 33 13-0943 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	359.31	45.68
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
For Work In Restricted Working Space, Add	27.41	
26 05 33 13-0944 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	448.06	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-0945 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	621.54	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
26 05 33 13-0946 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	791.62	85.87
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
For Work In Restricted Working Space, Add	51.53	
26 05 33 13-0947 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	961.50	96.84
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
For Work In Restricted Working Space, Add	58.10	
26 05 33 13-0948 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	1,136.34	126.07
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.25	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.68	
For Work In Restricted Working Space, Add	75.65	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0949 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	1,697.02	205.55
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
For Work In Restricted Working Space, Add	123.33	
26 05 33 13-0950 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow .....	2,131.42	308.79
For Elevated Installation >10' To 15', Add	61.76	
For Elevated Installation >15' To 20', Add	123.52	
For Elevated Installation >20' To 25', Add	154.40	
For Elevated Installation >25' To 30', Add	216.15	
For Elevated Installation >30' To 35', Add	247.03	
For Elevated Installation >35' To 40', Add	308.79	
For Elevated Installation >40', Add	339.67	
For Work In Restricted Working Space, Add	185.27	
<b>26 05 33 13-0951 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows (26 05 33 13-0948)</b>		
26 05 33 13-0952 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	298.38	34.72
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
For Work In Restricted Working Space, Add	20.83	
26 05 33 13-0953 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	351.06	40.20
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.22	
For Work In Restricted Working Space, Add	24.12	
26 05 33 13-0954 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	397.51	45.68
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
For Work In Restricted Working Space, Add	27.41	
26 05 33 13-0955 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	465.87	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-0956 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	642.47	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
26 05 33 13-0957 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	823.71	85.87
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
For Work In Restricted Working Space, Add	51.53	
26 05 33 13-0958 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	1,047.04	96.84
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
For Work In Restricted Working Space, Add	58.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0959 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	1,180.85	126.07
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.08	
<i>For Elevated Installation &gt;40', Add</i>	138.68	
<i>For Work In Restricted Working Space, Add</i>	75.65	
26 05 33 13-0960 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	1,758.98	205.55
<i>For Elevated Installation &gt;10' To 15', Add</i>	41.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	82.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	102.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	143.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	164.44	
<i>For Elevated Installation &gt;35' To 40', Add</i>	205.56	
<i>For Elevated Installation &gt;40', Add</i>	226.11	
<i>For Work In Restricted Working Space, Add</i>	123.33	
26 05 33 13-0961 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow .....	2,185.21	308.79
<i>For Elevated Installation &gt;10' To 15', Add</i>	61.76	
<i>For Elevated Installation &gt;15' To 20', Add</i>	123.52	
<i>For Elevated Installation &gt;20' To 25', Add</i>	154.40	
<i>For Elevated Installation &gt;25' To 30', Add</i>	216.15	
<i>For Elevated Installation &gt;30' To 35', Add</i>	247.03	
<i>For Elevated Installation &gt;35' To 40', Add</i>	308.79	
<i>For Elevated Installation &gt;40', Add</i>	339.67	
<i>For Work In Restricted Working Space, Add</i>	185.27	
<b>26 05 33 13-0962 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fittings <small>(26 05 33 13-0848)</small></b>		
26 05 33 13-0963 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting .....	116.04	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33 13-0964 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting .....	143.28	30.15
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.06	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.11	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.15	
<i>For Elevated Installation &gt;40', Add</i>	33.17	
<i>For Work In Restricted Working Space, Add</i>	18.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.09	
26 05 33 13-0965 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting .....	187.93	34.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
<i>For Work In Restricted Working Space, Add</i>	20.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.83	
26 05 33 13-0966 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting .....	299.19	40.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
<i>For Elevated Installation &gt;40', Add</i>	44.21	
<i>For Work In Restricted Working Space, Add</i>	24.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.12	
26 05 33 13-0967 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealight Fitting .....	331.09	45.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.25	
<i>For Work In Restricted Working Space, Add</i>	27.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.41	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0968	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	414.13	50.25
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
			<i>For Elevated Installation &gt;40', Add</i>	55.27	
			<i>For Work In Restricted Working Space, Add</i>	30.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.15	
26 05 33 13-0969	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,086.83	63.04
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	50.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	63.03	
			<i>For Elevated Installation &gt;40', Add</i>	69.33	
			<i>For Work In Restricted Working Space, Add</i>	37.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.82	
26 05 33 13-0970	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,303.17	85.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	60.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88	
			<i>For Elevated Installation &gt;40', Add</i>	94.47	
			<i>For Work In Restricted Working Space, Add</i>	51.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.53	
26 05 33 13-0971	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Sealtight Fitting.....	1,738.24	126.07
			<i>For Elevated Installation &gt;10' To 15', Add</i>	25.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	126.07	
			<i>For Elevated Installation &gt;40', Add</i>	138.68	
			<i>For Work In Restricted Working Space, Add</i>	75.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.64	
<b>26 05 33 13-0972</b>			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fittings</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-0973	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	111.77	22.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
			<i>For Elevated Installation &gt;40', Add</i>	25.12	
			<i>For Work In Restricted Working Space, Add</i>	13.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33 13-0974	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	138.44	30.15
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.03	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.08	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	30.15	
			<i>For Elevated Installation &gt;40', Add</i>	33.17	
			<i>For Work In Restricted Working Space, Add</i>	18.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.09	
26 05 33 13-0975	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	187.93	34.72
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
			<i>For Elevated Installation &gt;40', Add</i>	38.19	
			<i>For Work In Restricted Working Space, Add</i>	20.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.83	
26 05 33 13-0976	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealtight Fitting.....	296.70	40.20
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
			<i>For Elevated Installation &gt;40', Add</i>	44.21	
			<i>For Work In Restricted Working Space, Add</i>	24.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0977 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	321.06	45.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.25	
<i>For Work In Restricted Working Space, Add</i>	27.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.41	
26 05 33 13-0978 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	414.25	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.27	
<i>For Work In Restricted Working Space, Add</i>	30.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.15	
26 05 33 13-0979 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	1,044.03	63.04
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	50.42	
<i>For Elevated Installation &gt;35' To 40', Add</i>	63.03	
<i>For Elevated Installation &gt;40', Add</i>	69.33	
<i>For Work In Restricted Working Space, Add</i>	37.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.82	
26 05 33 13-0980 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	1,271.95	85.87
<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94	
<i>For Elevated Installation &gt;25' To 30', Add</i>	60.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70	
<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88	
<i>For Elevated Installation &gt;40', Add</i>	94.47	
<i>For Work In Restricted Working Space, Add</i>	51.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.53	
26 05 33 13-0981 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Sealight Fitting.....	1,738.17	126.07
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.21	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.07	
<i>For Elevated Installation &gt;40', Add</i>	138.68	
<i>For Work In Restricted Working Space, Add</i>	75.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.64	
<b>26 05 33 13-0982 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fittings</b> <small>(26 05 33 13-0948)</small>		
26 05 33 13-0983 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting.....	102.30	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33 13-0984 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting.....	124.07	30.15
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.06	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.11	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.15	
<i>For Elevated Installation &gt;40', Add</i>	33.17	
<i>For Work In Restricted Working Space, Add</i>	18.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.09	
26 05 33 13-0985 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealight Fitting.....	145.91	34.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
<i>For Work In Restricted Working Space, Add</i>	20.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.83	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0986	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....202.15		40.20
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
			<i>For Elevated Installation &gt;40', Add</i>	44.21	
			<i>For Work In Restricted Working Space, Add</i>	24.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.12	
26 05 33 13-0987	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....235.42		45.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
			<i>For Elevated Installation &gt;40', Add</i>	50.25	
			<i>For Work In Restricted Working Space, Add</i>	27.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.41	
26 05 33 13-0988	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....352.37		50.25
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
			<i>For Elevated Installation &gt;40', Add</i>	55.27	
			<i>For Work In Restricted Working Space, Add</i>	30.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.15	
26 05 33 13-0989	EA		2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....1261		63.04
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	50.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	63.03	
			<i>For Elevated Installation &gt;40', Add</i>	69.33	
			<i>For Work In Restricted Working Space, Add</i>	37.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.82	
26 05 33 13-0990	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....1,049.35		85.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	60.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88	
			<i>For Elevated Installation &gt;40', Add</i>	94.47	
			<i>For Work In Restricted Working Space, Add</i>	51.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.53	
26 05 33 13-0991	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Sealtight Fitting .....1,349.24		126.07
			<i>For Elevated Installation &gt;10' To 15', Add</i>	25.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	126.07	
			<i>For Elevated Installation &gt;40', Add</i>	138.68	
			<i>For Work In Restricted Working Space, Add</i>	75.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.64	
26 05 33 13-0992			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fittings</b> <small>(26 05 33 13-0948)</small>		
26 05 33 13-0993	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting .....165.65		22.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
			<i>For Elevated Installation &gt;40', Add</i>	25.12	
			<i>For Work In Restricted Working Space, Add</i>	13.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33 13-0994	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting .....247.28		30.15
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.03	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.08	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	30.15	
			<i>For Elevated Installation &gt;40', Add</i>	33.17	
			<i>For Work In Restricted Working Space, Add</i>	18.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-0995 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	309.08	34.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
<i>For Work In Restricted Working Space, Add</i>	20.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.83	
26 05 33 13-0996 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	356.85	40.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
<i>For Elevated Installation &gt;40', Add</i>	44.21	
<i>For Work In Restricted Working Space, Add</i>	24.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.12	
26 05 33 13-0997 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	405.29	45.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.25	
<i>For Work In Restricted Working Space, Add</i>	27.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.41	
26 05 33 13-0998 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	527.85	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.27	
<i>For Work In Restricted Working Space, Add</i>	30.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.15	
26 05 33 13-0999 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,607.74	63.04
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	50.42	
<i>For Elevated Installation &gt;35' To 40', Add</i>	63.03	
<i>For Elevated Installation &gt;40', Add</i>	69.33	
<i>For Work In Restricted Working Space, Add</i>	37.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.82	
26 05 33 13-1000 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	1,884.13	85.87
<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94	
<i>For Elevated Installation &gt;25' To 30', Add</i>	60.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70	
<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88	
<i>For Elevated Installation &gt;40', Add</i>	94.47	
<i>For Work In Restricted Working Space, Add</i>	51.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.53	
26 05 33 13-1001 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 45 Degree Grounded Sealtight Fitting.....	2,328.05	126.07
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.21	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.07	
<i>For Elevated Installation &gt;40', Add</i>	138.68	
<i>For Work In Restricted Working Space, Add</i>	75.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.64	

26 05 33 13-1002 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fittings (26 05 33 13-0848)

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1003	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	182.47	22.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
			<i>For Elevated Installation &gt;40', Add</i>	25.12	
			<i>For Work In Restricted Working Space, Add</i>	13.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33	13-1004	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	263.15	30.15
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.03	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.06	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.08	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.12	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	30.15	
			<i>For Elevated Installation &gt;40', Add</i>	33.17	
			<i>For Work In Restricted Working Space, Add</i>	18.09	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.09	
26 05 33	13-1005	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	312.10	34.72
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
			<i>For Elevated Installation &gt;40', Add</i>	38.19	
			<i>For Work In Restricted Working Space, Add</i>	20.83	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.83	
26 05 33	13-1006	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	361.82	40.20
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
			<i>For Elevated Installation &gt;40', Add</i>	44.21	
			<i>For Work In Restricted Working Space, Add</i>	24.12	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.12	
26 05 33	13-1007	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	418.94	45.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
			<i>For Elevated Installation &gt;40', Add</i>	50.25	
			<i>For Work In Restricted Working Space, Add</i>	27.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.41	
26 05 33	13-1008	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	647.84	50.25
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
			<i>For Elevated Installation &gt;40', Add</i>	55.27	
			<i>For Work In Restricted Working Space, Add</i>	30.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.15	
26 05 33	13-1009	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealtight Fitting.....	1,788.80	63.04
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	50.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	63.03	
			<i>For Elevated Installation &gt;40', Add</i>	69.33	
			<i>For Work In Restricted Working Space, Add</i>	37.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.82	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1010 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	2,516.25	85.87
<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94	
<i>For Elevated Installation &gt;25' To 30', Add</i>	60.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70	
<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88	
<i>For Elevated Installation &gt;40', Add</i>	94.47	
<i>For Work In Restricted Working Space, Add</i>	51.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.53	
26 05 33 13-1011 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 90 Degree Grounded Sealight Fitting.....	2,648.05	126.07
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.21	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.07	
<i>For Elevated Installation &gt;40', Add</i>	138.68	
<i>For Work In Restricted Working Space, Add</i>	75.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.64	
<b>26 05 33 13-1012 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fittings</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1013 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	147.12	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33 13-1014 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	186.39	30.15
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.03	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.06	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.08	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.11	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	30.15	
<i>For Elevated Installation &gt;40', Add</i>	33.17	
<i>For Work In Restricted Working Space, Add</i>	18.09	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.09	
26 05 33 13-1015 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	222.51	34.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
<i>For Work In Restricted Working Space, Add</i>	20.83	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.83	
26 05 33 13-1016 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	247.53	40.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
<i>For Elevated Installation &gt;40', Add</i>	44.21	
<i>For Work In Restricted Working Space, Add</i>	24.12	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.12	
26 05 33 13-1017 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealight Fitting.....	328.57	45.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.25	
<i>For Work In Restricted Working Space, Add</i>	27.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.41	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1018	EA		2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	456.32	50.25
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
			<i>For Elevated Installation &gt;40', Add</i>	55.27	
			<i>For Work In Restricted Working Space, Add</i>	30.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.15	
26 05 33 13-1019	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,457.78	63.04
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	50.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	63.03	
			<i>For Elevated Installation &gt;40', Add</i>	69.33	
			<i>For Work In Restricted Working Space, Add</i>	37.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.82	
26 05 33 13-1020	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,649.65	85.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	60.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88	
			<i>For Elevated Installation &gt;40', Add</i>	94.47	
			<i>For Work In Restricted Working Space, Add</i>	51.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.53	
26 05 33 13-1021	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Straight Grounded Sealtight Fitting.....	1,974.01	126.07
			<i>For Elevated Installation &gt;10' To 15', Add</i>	25.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	126.07	
			<i>For Elevated Installation &gt;40', Add</i>	138.68	
			<i>For Work In Restricted Working Space, Add</i>	75.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.64	
26 05 33 13-1022			<b>Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover</b> <small>(26 05 33 13-0848)</small>		
			Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1023	EA		1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	146.31	43.85
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.77	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.54	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.70	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	43.86	
			<i>For Elevated Installation &gt;40', Add</i>	48.24	
			<i>For Work In Restricted Working Space, Add</i>	26.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.31	
26 05 33 13-1024	EA		3/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	165.47	50.25
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
			<i>For Elevated Installation &gt;40', Add</i>	55.27	
			<i>For Work In Restricted Working Space, Add</i>	30.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.15	
26 05 33 13-1025	EA		1" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	202.05	57.56
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
			<i>For Elevated Installation &gt;40', Add</i>	63.31	
			<i>For Work In Restricted Working Space, Add</i>	34.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1026 EA 1-1/4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	259.59	66.69
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.68	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.35	
<i>For Elevated Installation &gt;25' To 30', Add</i>	46.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	53.35	
<i>For Elevated Installation &gt;35' To 40', Add</i>	66.69	
<i>For Elevated Installation &gt;40', Add</i>	73.36	
<i>For Work In Restricted Working Space, Add</i>	40.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.01	
26 05 33 13-1027 EA 1-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	300.29	73.09
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	29.23	
<i>For Elevated Installation &gt;20' To 25', Add</i>	36.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	51.16	
<i>For Elevated Installation &gt;30' To 35', Add</i>	58.47	
<i>For Elevated Installation &gt;35' To 40', Add</i>	73.09	
<i>For Elevated Installation &gt;40', Add</i>	80.39	
<i>For Work In Restricted Working Space, Add</i>	43.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.85	
26 05 33 13-1028 EA 2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	402.62	87.71
<i>For Elevated Installation &gt;10' To 15', Add</i>	17.54	
<i>For Elevated Installation &gt;15' To 20', Add</i>	35.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	43.85	
<i>For Elevated Installation &gt;25' To 30', Add</i>	61.39	
<i>For Elevated Installation &gt;30' To 35', Add</i>	70.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	87.71	
<i>For Elevated Installation &gt;40', Add</i>	96.48	
<i>For Work In Restricted Working Space, Add</i>	52.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.62	
26 05 33 13-1029 EA 2-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	663.64	123.34
<i>For Elevated Installation &gt;10' To 15', Add</i>	24.67	
<i>For Elevated Installation &gt;15' To 20', Add</i>	49.33	
<i>For Elevated Installation &gt;20' To 25', Add</i>	61.67	
<i>For Elevated Installation &gt;25' To 30', Add</i>	86.33	
<i>For Elevated Installation &gt;30' To 35', Add</i>	98.67	
<i>For Elevated Installation &gt;35' To 40', Add</i>	123.34	
<i>For Elevated Installation &gt;40', Add</i>	135.67	
<i>For Work In Restricted Working Space, Add</i>	74.00	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.00	
26 05 33 13-1030 EA 3" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	853.42	164.45
<i>For Elevated Installation &gt;10' To 15', Add</i>	32.89	
<i>For Elevated Installation &gt;15' To 20', Add</i>	65.78	
<i>For Elevated Installation &gt;20' To 25', Add</i>	82.23	
<i>For Elevated Installation &gt;25' To 30', Add</i>	115.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	131.56	
<i>For Elevated Installation &gt;35' To 40', Add</i>	164.45	
<i>For Elevated Installation &gt;40', Add</i>	180.90	
<i>For Work In Restricted Working Space, Add</i>	98.67	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.67	
26 05 33 13-1031 EA 3-1/2" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,173.88	205.55
<i>For Elevated Installation &gt;10' To 15', Add</i>	41.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	82.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	102.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	143.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	164.44	
<i>For Elevated Installation &gt;35' To 40', Add</i>	205.56	
<i>For Elevated Installation &gt;40', Add</i>	226.11	
<i>For Work In Restricted Working Space, Add</i>	123.33	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.33	
26 05 33 13-1032 EA 4" Type C, LB, LR, LL, Two Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,354.88	250.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	50.07	
<i>For Elevated Installation &gt;15' To 20', Add</i>	100.13	
<i>For Elevated Installation &gt;20' To 25', Add</i>	125.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	175.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	200.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	250.33	
<i>For Elevated Installation &gt;40', Add</i>	275.36	
<i>For Work In Restricted Working Space, Add</i>	150.20	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.20	

26 05 33 13-1033 Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover (26 05 33 13-0848)

Note: Suitable for use in hazardous locations. Class I, Div 2.

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1034 EA 1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	191.30	57.56
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.04	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.31	
For Work In Restricted Working Space, Add	34.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.53	
26 05 33 13-1035 EA 3/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	217.11	63.95
For Elevated Installation >10' To 15', Add	12.79	
For Elevated Installation >15' To 20', Add	25.58	
For Elevated Installation >20' To 25', Add	31.98	
For Elevated Installation >25' To 30', Add	44.77	
For Elevated Installation >30' To 35', Add	51.16	
For Elevated Installation >35' To 40', Add	63.95	
For Elevated Installation >40', Add	70.35	
For Work In Restricted Working Space, Add	38.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.37	
26 05 33 13-1036 EA 1" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	260.86	70.34
For Elevated Installation >10' To 15', Add	14.07	
For Elevated Installation >15' To 20', Add	28.14	
For Elevated Installation >20' To 25', Add	35.17	
For Elevated Installation >25' To 30', Add	49.24	
For Elevated Installation >30' To 35', Add	56.28	
For Elevated Installation >35' To 40', Add	70.35	
For Elevated Installation >40', Add	77.38	
For Work In Restricted Working Space, Add	42.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.21	
26 05 33 13-1037 EA 1-1/4" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	342.85	80.39
For Elevated Installation >10' To 15', Add	16.08	
For Elevated Installation >15' To 20', Add	32.16	
For Elevated Installation >20' To 25', Add	40.20	
For Elevated Installation >25' To 30', Add	56.27	
For Elevated Installation >30' To 35', Add	64.31	
For Elevated Installation >35' To 40', Add	80.39	
For Elevated Installation >40', Add	88.43	
For Work In Restricted Working Space, Add	48.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.23	
26 05 33 13-1038 EA 1-1/2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	401.10	87.71
For Elevated Installation >10' To 15', Add	17.54	
For Elevated Installation >15' To 20', Add	35.08	
For Elevated Installation >20' To 25', Add	43.85	
For Elevated Installation >25' To 30', Add	61.39	
For Elevated Installation >30' To 35', Add	70.16	
For Elevated Installation >35' To 40', Add	87.71	
For Elevated Installation >40', Add	96.48	
For Work In Restricted Working Space, Add	52.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.62	
26 05 33 13-1039 EA 2" Type X, Four Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	539.79	107.81
For Elevated Installation >10' To 15', Add	21.56	
For Elevated Installation >15' To 20', Add	43.12	
For Elevated Installation >20' To 25', Add	53.90	
For Elevated Installation >25' To 30', Add	75.46	
For Elevated Installation >30' To 35', Add	86.24	
For Elevated Installation >35' To 40', Add	107.81	
For Elevated Installation >40', Add	118.59	
For Work In Restricted Working Space, Add	64.68	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.68	
<b>26 05 33 13-1040 Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover</b> <small>(26 05 33 13-0848)</small>		
Note: Suitable for use in hazardous locations. Class I, Div 2.		
26 05 33 13-1041 EA 1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	168.13	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.13	
For Elevated Installation >25' To 30', Add	35.18	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.28	
For Work In Restricted Working Space, Add	30.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.15	
26 05 33 13-1042 EA 3/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover .....	192.48	58.47
For Elevated Installation >10' To 15', Add	11.69	
For Elevated Installation >15' To 20', Add	23.39	
For Elevated Installation >20' To 25', Add	29.24	
For Elevated Installation >25' To 30', Add	40.93	
For Elevated Installation >30' To 35', Add	46.78	
For Elevated Installation >35' To 40', Add	58.47	
For Elevated Installation >40', Add	64.32	
For Work In Restricted Working Space, Add	35.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1043 EA 1" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	229.10	63.95
For Elevated Installation >10' To 15', Add	12.79	
For Elevated Installation >15' To 20', Add	25.58	
For Elevated Installation >20' To 25', Add	31.98	
For Elevated Installation >25' To 30', Add	44.77	
For Elevated Installation >30' To 35', Add	51.16	
For Elevated Installation >35' To 40', Add	63.95	
For Elevated Installation >40', Add	70.35	
For Work In Restricted Working Space, Add	38.37	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.37	
26 05 33 13-1044 EA 1-1/4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	288.64	73.09
For Elevated Installation >10' To 15', Add	14.62	
For Elevated Installation >15' To 20', Add	29.23	
For Elevated Installation >20' To 25', Add	36.54	
For Elevated Installation >25' To 30', Add	51.16	
For Elevated Installation >30' To 35', Add	58.47	
For Elevated Installation >35' To 40', Add	73.09	
For Elevated Installation >40', Add	80.39	
For Work In Restricted Working Space, Add	43.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.85	
26 05 33 13-1045 EA 1-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	338.71	80.39
For Elevated Installation >10' To 15', Add	16.08	
For Elevated Installation >15' To 20', Add	32.16	
For Elevated Installation >20' To 25', Add	40.20	
For Elevated Installation >25' To 30', Add	56.28	
For Elevated Installation >30' To 35', Add	64.32	
For Elevated Installation >35' To 40', Add	80.40	
For Elevated Installation >40', Add	88.43	
For Work In Restricted Working Space, Add	48.24	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.24	
26 05 33 13-1046 EA 2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	446.56	94.10
For Elevated Installation >10' To 15', Add	18.82	
For Elevated Installation >15' To 20', Add	37.64	
For Elevated Installation >20' To 25', Add	47.05	
For Elevated Installation >25' To 30', Add	65.87	
For Elevated Installation >30' To 35', Add	75.28	
For Elevated Installation >35' To 40', Add	94.10	
For Elevated Installation >40', Add	103.51	
For Work In Restricted Working Space, Add	56.46	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	56.46	
26 05 33 13-1047 EA 2-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	710.50	137.03
For Elevated Installation >10' To 15', Add	27.41	
For Elevated Installation >15' To 20', Add	54.82	
For Elevated Installation >20' To 25', Add	68.52	
For Elevated Installation >25' To 30', Add	95.93	
For Elevated Installation >30' To 35', Add	109.63	
For Elevated Installation >35' To 40', Add	137.04	
For Elevated Installation >40', Add	150.74	
For Work In Restricted Working Space, Add	82.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.22	
26 05 33 13-1048 EA 3" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	938.66	178.15
For Elevated Installation >10' To 15', Add	35.63	
For Elevated Installation >15' To 20', Add	71.26	
For Elevated Installation >20' To 25', Add	89.07	
For Elevated Installation >25' To 30', Add	124.70	
For Elevated Installation >30' To 35', Add	142.52	
For Elevated Installation >35' To 40', Add	178.15	
For Elevated Installation >40', Add	195.96	
For Work In Restricted Working Space, Add	106.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.89	
26 05 33 13-1049 EA 3-1/2" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,275.56	219.26
For Elevated Installation >10' To 15', Add	43.85	
For Elevated Installation >15' To 20', Add	87.70	
For Elevated Installation >20' To 25', Add	109.63	
For Elevated Installation >25' To 30', Add	153.48	
For Elevated Installation >30' To 35', Add	175.40	
For Elevated Installation >35' To 40', Add	219.26	
For Elevated Installation >40', Add	241.18	
For Work In Restricted Working Space, Add	131.55	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	131.55	
26 05 33 13-1050 EA 4" Type T Or TB, Three Hub, Polyvinyl Chloride (PVC) Coated, Urethane Lined, Iron Conduit Bodies With Cover.....	1,436.16	264.03
For Elevated Installation >10' To 15', Add	52.81	
For Elevated Installation >15' To 20', Add	105.61	
For Elevated Installation >20' To 25', Add	132.02	
For Elevated Installation >25' To 30', Add	184.82	
For Elevated Installation >30' To 35', Add	211.23	
For Elevated Installation >35' To 40', Add	264.04	
For Elevated Installation >40', Add	290.44	
For Work In Restricted Working Space, Add	158.42	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	158.42	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 05 33 13-1051		<b>Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined</b> <small>(26 05 33 13-0848)</small>			
26 05 33 13-1052	EA	1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	31.74		5.48
		<i>For Elevated Installation &gt;10' To 15', Add</i>	1.10		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	2.19		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	2.74		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	3.84		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	4.38		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	5.48		
		<i>For Elevated Installation &gt;40', Add</i>	6.03		
		<i>For Work In Restricted Working Space, Add</i>	3.29		
26 05 33 13-1053	EA	3/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined.....	35.75		6.39
		<i>For Elevated Installation &gt;10' To 15', Add</i>	1.28		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	2.56		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	3.20		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	4.48		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	5.12		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	6.40		
		<i>For Elevated Installation &gt;40', Add</i>	7.03		
		<i>For Work In Restricted Working Space, Add</i>	3.84		
26 05 33 13-1054	EA	1" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....	46.55		8.23
		<i>For Elevated Installation &gt;10' To 15', Add</i>	1.64		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	3.29		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	4.11		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	5.75		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	6.58		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	8.22		
		<i>For Elevated Installation &gt;40', Add</i>	9.04		
		<i>For Work In Restricted Working Space, Add</i>	4.93		
26 05 33 13-1055	EA	1-1/4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....	59.58		10.05
		<i>For Elevated Installation &gt;10' To 15', Add</i>	2.01		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	4.02		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	5.03		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	7.04		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	8.04		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	10.05		
		<i>For Elevated Installation &gt;40', Add</i>	11.06		
		<i>For Work In Restricted Working Space, Add</i>	6.03		
26 05 33 13-1056	EA	1-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....	67.06		11.87
		<i>For Elevated Installation &gt;10' To 15', Add</i>	2.38		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	4.75		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	5.94		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	8.32		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	9.50		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	11.88		
		<i>For Elevated Installation &gt;40', Add</i>	13.07		
		<i>For Work In Restricted Working Space, Add</i>	7.13		
26 05 33 13-1057	EA	2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....	82.44		13.71
		<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70		
		<i>For Elevated Installation &gt;40', Add</i>	15.07		
		<i>For Work In Restricted Working Space, Add</i>	8.22		
26 05 33 13-1058	EA	2-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....	105.48		15.53
		<i>For Elevated Installation &gt;10' To 15', Add</i>	3.11		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	6.21		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	7.77		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	10.87		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	12.42		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	15.53		
		<i>For Elevated Installation &gt;40', Add</i>	17.08		
		<i>For Work In Restricted Working Space, Add</i>	9.32		
26 05 33 13-1059	EA	3" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....	118.27		21.92
		<i>For Elevated Installation &gt;10' To 15', Add</i>	4.39		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	8.77		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	10.96		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	15.35		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	17.54		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	21.93		
		<i>For Elevated Installation &gt;40', Add</i>	24.12		
		<i>For Work In Restricted Working Space, Add</i>	13.16		
26 05 33 13-1060	EA	3-1/2" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....	142.65		24.67
		<i>For Elevated Installation &gt;10' To 15', Add</i>	4.93		
		<i>For Elevated Installation &gt;15' To 20', Add</i>	9.87		
		<i>For Elevated Installation &gt;20' To 25', Add</i>	12.33		
		<i>For Elevated Installation &gt;25' To 30', Add</i>	17.27		
		<i>For Elevated Installation &gt;30' To 35', Add</i>	19.73		
		<i>For Elevated Installation &gt;35' To 40', Add</i>	24.67		
		<i>For Elevated Installation &gt;40', Add</i>	27.13		
		<i>For Work In Restricted Working Space, Add</i>	14.80		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1061 EA 4" Replacement Iron Conduit Body Covers, Polyvinyl Chloride (PVC) Coated, Urethane Lined .....	155.44	31.06
For Elevated Installation >10' To 15', Add	6.21	
For Elevated Installation >15' To 20', Add	12.42	
For Elevated Installation >20' To 25', Add	15.53	
For Elevated Installation >25' To 30', Add	21.74	
For Elevated Installation >30' To 35', Add	24.85	
For Elevated Installation >35' To 40', Add	31.06	
For Elevated Installation >40', Add	34.17	
For Work In Restricted Working Space, Add	18.64	
<b>26 05 33 13-1062 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Bodies</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1063 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	162.06	43.85
For Elevated Installation >10' To 15', Add	8.77	
For Elevated Installation >15' To 20', Add	17.54	
For Elevated Installation >20' To 25', Add	21.93	
For Elevated Installation >25' To 30', Add	30.70	
For Elevated Installation >30' To 35', Add	35.08	
For Elevated Installation >35' To 40', Add	43.86	
For Elevated Installation >40', Add	48.24	
For Work In Restricted Working Space, Add	26.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.31	
26 05 33 13-1064 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	180.45	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.15	
26 05 33 13-1065 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	210.10	57.56
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.04	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.31	
For Work In Restricted Working Space, Add	34.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.53	
26 05 33 13-1066 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body .....	248.43	66.69
For Elevated Installation >10' To 15', Add	13.34	
For Elevated Installation >15' To 20', Add	26.68	
For Elevated Installation >20' To 25', Add	33.35	
For Elevated Installation >25' To 30', Add	46.69	
For Elevated Installation >30' To 35', Add	53.36	
For Elevated Installation >35' To 40', Add	66.70	
For Elevated Installation >40', Add	73.36	
For Work In Restricted Working Space, Add	40.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.02	
26 05 33 13-1067 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body .....	303.43	73.09
For Elevated Installation >10' To 15', Add	14.62	
For Elevated Installation >15' To 20', Add	29.23	
For Elevated Installation >20' To 25', Add	36.54	
For Elevated Installation >25' To 30', Add	51.16	
For Elevated Installation >30' To 35', Add	58.47	
For Elevated Installation >35' To 40', Add	73.09	
For Elevated Installation >40', Add	80.39	
For Work In Restricted Working Space, Add	43.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.85	
26 05 33 13-1068 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	367.22	87.71
For Elevated Installation >10' To 15', Add	17.54	
For Elevated Installation >15' To 20', Add	35.08	
For Elevated Installation >20' To 25', Add	43.85	
For Elevated Installation >25' To 30', Add	61.39	
For Elevated Installation >30' To 35', Add	70.16	
For Elevated Installation >35' To 40', Add	87.71	
For Elevated Installation >40', Add	96.48	
For Work In Restricted Working Space, Add	52.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.62	
26 05 33 13-1069 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body .....	529.65	123.34
For Elevated Installation >10' To 15', Add	24.67	
For Elevated Installation >15' To 20', Add	49.33	
For Elevated Installation >20' To 25', Add	61.67	
For Elevated Installation >25' To 30', Add	86.33	
For Elevated Installation >30' To 35', Add	98.67	
For Elevated Installation >35' To 40', Add	123.34	
For Elevated Installation >40', Add	135.67	
For Work In Restricted Working Space, Add	74.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.00	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1070	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	682.81	164.45
			<i>For Elevated Installation &gt;10' To 15', Add</i>	32.89	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	65.78	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	82.22	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	115.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	131.56	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	164.45	
			<i>For Elevated Installation &gt;40', Add</i>	180.89	
			<i>For Work In Restricted Working Space, Add</i>	98.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.67	
26 05 33 13-1071	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body .....	1,294.00	205.55
			<i>For Elevated Installation &gt;10' To 15', Add</i>	41.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	82.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	102.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	143.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	164.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	205.56	
			<i>For Elevated Installation &gt;40', Add</i>	226.11	
			<i>For Work In Restricted Working Space, Add</i>	123.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.33	
26 05 33 13-1072	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYS Sealing Conduit Body.....	1,865.41	250.32
			<i>For Elevated Installation &gt;10' To 15', Add</i>	50.07	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	100.13	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	125.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	175.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	200.26	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	250.33	
			<i>For Elevated Installation &gt;40', Add</i>	275.36	
			<i>For Work In Restricted Working Space, Add</i>	150.20	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	150.20	
26 05 33 13-1073			<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Bodies</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1074	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	258.84	43.85
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.77	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.54	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.70	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	43.86	
			<i>For Elevated Installation &gt;40', Add</i>	48.24	
			<i>For Work In Restricted Working Space, Add</i>	26.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.31	
26 05 33 13-1075	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	280.51	50.25
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
			<i>For Elevated Installation &gt;40', Add</i>	55.27	
			<i>For Work In Restricted Working Space, Add</i>	30.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.15	
26 05 33 13-1076	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body.....	320.43	57.56
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
			<i>For Elevated Installation &gt;40', Add</i>	63.31	
			<i>For Work In Restricted Working Space, Add</i>	34.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.53	
26 05 33 13-1077	EA		1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....	360.02	66.69
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.34	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	26.68	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	33.35	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	46.69	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	53.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	66.70	
			<i>For Elevated Installation &gt;40', Add</i>	73.36	
			<i>For Work In Restricted Working Space, Add</i>	40.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.02	
26 05 33 13-1078	EA		1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....	431.88	73.09
			<i>For Elevated Installation &gt;10' To 15', Add</i>	14.62	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	29.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	36.54	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	51.16	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	58.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	73.09	
			<i>For Elevated Installation &gt;40', Add</i>	80.39	
			<i>For Work In Restricted Working Space, Add</i>	43.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.85	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1079 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....	489.41	87.71
For Elevated Installation >10' To 15', Add	17.54	
For Elevated Installation >15' To 20', Add	35.08	
For Elevated Installation >20' To 25', Add	43.85	
For Elevated Installation >25' To 30', Add	61.39	
For Elevated Installation >30' To 35', Add	70.16	
For Elevated Installation >35' To 40', Add	87.71	
For Elevated Installation >40', Add	96.48	
For Work In Restricted Working Space, Add	52.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.62	
26 05 33 13-1080 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....	688.52	123.34
For Elevated Installation >10' To 15', Add	24.67	
For Elevated Installation >15' To 20', Add	49.33	
For Elevated Installation >20' To 25', Add	61.67	
For Elevated Installation >25' To 30', Add	86.33	
For Elevated Installation >30' To 35', Add	98.67	
For Elevated Installation >35' To 40', Add	123.34	
For Elevated Installation >40', Add	135.67	
For Work In Restricted Working Space, Add	74.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	74.00	
26 05 33 13-1081 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....	954.89	164.45
For Elevated Installation >10' To 15', Add	32.89	
For Elevated Installation >15' To 20', Add	65.78	
For Elevated Installation >20' To 25', Add	82.22	
For Elevated Installation >25' To 30', Add	115.11	
For Elevated Installation >30' To 35', Add	131.56	
For Elevated Installation >35' To 40', Add	164.45	
For Elevated Installation >40', Add	180.89	
For Work In Restricted Working Space, Add	98.67	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	98.67	
26 05 33 13-1082 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....	1,373.01	205.55
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
For Work In Restricted Working Space, Add	123.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	123.33	
26 05 33 13-1083 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EYD Sealing Conduit Body .....	1,968.80	250.32
For Elevated Installation >10' To 15', Add	50.07	
For Elevated Installation >15' To 20', Add	100.13	
For Elevated Installation >20' To 25', Add	125.16	
For Elevated Installation >25' To 30', Add	175.23	
For Elevated Installation >30' To 35', Add	200.26	
For Elevated Installation >35' To 40', Add	250.33	
For Elevated Installation >40', Add	275.36	
For Work In Restricted Working Space, Add	150.20	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	150.20	
<b>26 05 33 13-1084 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Bodies</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1085 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body .....	212.25	43.85
For Elevated Installation >10' To 15', Add	8.77	
For Elevated Installation >15' To 20', Add	17.54	
For Elevated Installation >20' To 25', Add	21.93	
For Elevated Installation >25' To 30', Add	30.70	
For Elevated Installation >30' To 35', Add	35.08	
For Elevated Installation >35' To 40', Add	43.86	
For Elevated Installation >40', Add	48.24	
For Work In Restricted Working Space, Add	26.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.31	
26 05 33 13-1086 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body .....	228.34	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.15	
26 05 33 13-1087 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body .....	262.24	57.56
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.04	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.31	
For Work In Restricted Working Space, Add	34.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.53	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1088	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	294.03	66.69
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.34	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	26.68	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	33.35	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	46.69	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	53.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	66.70	
			<i>For Elevated Installation &gt;40', Add</i>	73.36	
			<i>For Work In Restricted Working Space, Add</i>	40.02	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.02	
26 05 33	13-1089	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	393.46	73.09
			<i>For Elevated Installation &gt;10' To 15', Add</i>	14.62	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	29.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	36.54	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	51.16	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	58.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	73.09	
			<i>For Elevated Installation &gt;40', Add</i>	80.39	
			<i>For Work In Restricted Working Space, Add</i>	43.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.85	
26 05 33	13-1090	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	491.73	87.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.54	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	35.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	43.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	61.39	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	70.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	87.71	
			<i>For Elevated Installation &gt;40', Add</i>	96.48	
			<i>For Work In Restricted Working Space, Add</i>	52.62	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.62	
26 05 33	13-1091	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	756.09	123.34
			<i>For Elevated Installation &gt;10' To 15', Add</i>	24.67	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	49.33	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	61.67	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	86.33	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	98.67	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	123.34	
			<i>For Elevated Installation &gt;40', Add</i>	135.67	
			<i>For Work In Restricted Working Space, Add</i>	74.00	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	74.00	
26 05 33	13-1092	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,092.36	164.45
			<i>For Elevated Installation &gt;10' To 15', Add</i>	32.89	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	65.78	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	82.22	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	115.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	131.56	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	164.45	
			<i>For Elevated Installation &gt;40', Add</i>	180.89	
			<i>For Work In Restricted Working Space, Add</i>	98.67	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.67	
26 05 33	13-1093	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZS Sealing Conduit Body	1,373.01	205.55
			<i>For Elevated Installation &gt;10' To 15', Add</i>	41.11	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	82.22	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	102.78	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	143.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	164.44	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	205.56	
			<i>For Elevated Installation &gt;40', Add</i>	226.11	
			<i>For Work In Restricted Working Space, Add</i>	123.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	123.33	
26 05 33	13-1094		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Bodies</b> <small>(26 05 33 13-0848)</small>		
26 05 33	13-1095	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body	272.51	43.85
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.77	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.54	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.93	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.70	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	43.86	
			<i>For Elevated Installation &gt;40', Add</i>	48.24	
			<i>For Work In Restricted Working Space, Add</i>	26.31	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1096 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	303.32	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.27	
<i>For Work In Restricted Working Space, Add</i>	30.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.15	
26 05 33 13-1097 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	373.20	57.56
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
<i>For Elevated Installation &gt;40', Add</i>	63.31	
<i>For Work In Restricted Working Space, Add</i>	34.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.53	
26 05 33 13-1098 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body .....	457.62	66.69
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.68	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.35	
<i>For Elevated Installation &gt;25' To 30', Add</i>	46.69	
<i>For Elevated Installation &gt;30' To 35', Add</i>	53.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	66.70	
<i>For Elevated Installation &gt;40', Add</i>	73.36	
<i>For Work In Restricted Working Space, Add</i>	40.02	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.02	
26 05 33 13-1099 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body .....	624.58	73.09
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	29.23	
<i>For Elevated Installation &gt;20' To 25', Add</i>	36.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	51.16	
<i>For Elevated Installation &gt;30' To 35', Add</i>	58.47	
<i>For Elevated Installation &gt;35' To 40', Add</i>	73.09	
<i>For Elevated Installation &gt;40', Add</i>	80.39	
<i>For Work In Restricted Working Space, Add</i>	43.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.85	
26 05 33 13-1100 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) EZD Sealing Conduit Body.....	748.62	87.71
<i>For Elevated Installation &gt;10' To 15', Add</i>	17.54	
<i>For Elevated Installation &gt;15' To 20', Add</i>	35.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	43.85	
<i>For Elevated Installation &gt;25' To 30', Add</i>	61.39	
<i>For Elevated Installation &gt;30' To 35', Add</i>	70.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	87.71	
<i>For Elevated Installation &gt;40', Add</i>	96.48	
<i>For Work In Restricted Working Space, Add</i>	52.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.62	
<b>26 05 33 13-1101 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Couplings</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1102 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	57.78	17.57
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
<i>For Elevated Installation &gt;40', Add</i>	19.33	
<i>For Work In Restricted Working Space, Add</i>	10.54	
26 05 33 13-1103 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	75.34	21.08
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.76	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	21.08	
<i>For Elevated Installation &gt;40', Add</i>	23.19	
<i>For Work In Restricted Working Space, Add</i>	12.65	
26 05 33 13-1104 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling .....	96.50	28.11
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.24	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.49	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.11	
<i>For Elevated Installation &gt;40', Add</i>	30.92	
<i>For Work In Restricted Working Space, Add</i>	16.87	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1105 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	130.73	35.14
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Work In Restricted Working Space, Add	21.08	
26 05 33 13-1106 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	169.26	42.16
For Elevated Installation >10' To 15', Add	8.43	
For Elevated Installation >15' To 20', Add	16.87	
For Elevated Installation >20' To 25', Add	21.08	
For Elevated Installation >25' To 30', Add	29.52	
For Elevated Installation >30' To 35', Add	33.73	
For Elevated Installation >35' To 40', Add	42.17	
For Elevated Installation >40', Add	46.38	
For Work In Restricted Working Space, Add	25.30	
26 05 33 13-1107 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	277.97	49.19
For Elevated Installation >10' To 15', Add	9.84	
For Elevated Installation >15' To 20', Add	19.68	
For Elevated Installation >20' To 25', Add	24.60	
For Elevated Installation >25' To 30', Add	34.44	
For Elevated Installation >30' To 35', Add	39.36	
For Elevated Installation >35' To 40', Add	49.20	
For Elevated Installation >40', Add	54.11	
For Work In Restricted Working Space, Add	29.52	
26 05 33 13-1108 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	395.19	56.22
For Elevated Installation >10' To 15', Add	11.25	
For Elevated Installation >15' To 20', Add	22.49	
For Elevated Installation >20' To 25', Add	28.11	
For Elevated Installation >25' To 30', Add	39.36	
For Elevated Installation >30' To 35', Add	44.98	
For Elevated Installation >35' To 40', Add	56.23	
For Elevated Installation >40', Add	61.85	
For Work In Restricted Working Space, Add	33.74	
26 05 33 13-1109 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	489.06	63.25
For Elevated Installation >10' To 15', Add	12.65	
For Elevated Installation >15' To 20', Add	25.30	
For Elevated Installation >20' To 25', Add	31.62	
For Elevated Installation >25' To 30', Add	44.27	
For Elevated Installation >30' To 35', Add	50.60	
For Elevated Installation >35' To 40', Add	63.25	
For Elevated Installation >40', Add	69.57	
For Work In Restricted Working Space, Add	37.95	
26 05 33 13-1110 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	672.58	73.79
For Elevated Installation >10' To 15', Add	14.76	
For Elevated Installation >15' To 20', Add	29.52	
For Elevated Installation >20' To 25', Add	36.90	
For Elevated Installation >25' To 30', Add	51.65	
For Elevated Installation >30' To 35', Add	59.03	
For Elevated Installation >35' To 40', Add	73.79	
For Elevated Installation >40', Add	81.17	
For Work In Restricted Working Space, Add	44.27	
26 05 33 13-1111 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	813.61	84.33
For Elevated Installation >10' To 15', Add	16.87	
For Elevated Installation >15' To 20', Add	33.73	
For Elevated Installation >20' To 25', Add	42.17	
For Elevated Installation >25' To 30', Add	59.03	
For Elevated Installation >30' To 35', Add	67.46	
For Elevated Installation >35' To 40', Add	84.33	
For Elevated Installation >40', Add	92.76	
For Work In Restricted Working Space, Add	50.60	
26 05 33 13-1112 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,301.37	133.53
For Elevated Installation >10' To 15', Add	26.71	
For Elevated Installation >15' To 20', Add	53.41	
For Elevated Installation >20' To 25', Add	66.76	
For Elevated Installation >25' To 30', Add	93.47	
For Elevated Installation >30' To 35', Add	106.82	
For Elevated Installation >35' To 40', Add	133.53	
For Elevated Installation >40', Add	146.88	
For Work In Restricted Working Space, Add	80.12	
26 05 33 13-1113 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Split Coupling.....	1,791.16	203.80
For Elevated Installation >10' To 15', Add	40.76	
For Elevated Installation >15' To 20', Add	81.52	
For Elevated Installation >20' To 25', Add	101.90	
For Elevated Installation >25' To 30', Add	142.66	
For Elevated Installation >30' To 35', Add	163.04	
For Elevated Installation >35' To 40', Add	203.80	
For Elevated Installation >40', Add	224.18	
For Work In Restricted Working Space, Add	122.28	

26 05 33 13-1114 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbows (26 05 33 13-0848)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1115 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	201.62	43.85
For Elevated Installation >10' To 15', Add	8.77	
For Elevated Installation >15' To 20', Add	17.54	
For Elevated Installation >20' To 25', Add	21.93	
For Elevated Installation >25' To 30', Add	30.70	
For Elevated Installation >30' To 35', Add	35.08	
For Elevated Installation >35' To 40', Add	43.86	
For Elevated Installation >40', Add	48.24	
For Work In Restricted Working Space, Add	26.31	
26 05 33 13-1116 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	236.38	48.42
For Elevated Installation >10' To 15', Add	9.68	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.89	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.42	
For Elevated Installation >40', Add	53.26	
For Work In Restricted Working Space, Add	29.05	
26 05 33 13-1117 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	263.21	57.56
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.04	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.31	
For Work In Restricted Working Space, Add	34.53	
26 05 33 13-1118 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	369.06	66.69
For Elevated Installation >10' To 15', Add	13.34	
For Elevated Installation >15' To 20', Add	26.68	
For Elevated Installation >20' To 25', Add	33.35	
For Elevated Installation >25' To 30', Add	46.69	
For Elevated Installation >30' To 35', Add	53.36	
For Elevated Installation >35' To 40', Add	66.70	
For Elevated Installation >40', Add	73.36	
For Work In Restricted Working Space, Add	40.02	
26 05 33 13-1119 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	478.25	73.09
For Elevated Installation >10' To 15', Add	14.62	
For Elevated Installation >15' To 20', Add	29.23	
For Elevated Installation >20' To 25', Add	36.54	
For Elevated Installation >25' To 30', Add	51.16	
For Elevated Installation >30' To 35', Add	58.47	
For Elevated Installation >35' To 40', Add	73.09	
For Elevated Installation >40', Add	80.39	
For Work In Restricted Working Space, Add	43.85	
26 05 33 13-1120 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	521.29	87.71
For Elevated Installation >10' To 15', Add	17.54	
For Elevated Installation >15' To 20', Add	35.08	
For Elevated Installation >20' To 25', Add	43.85	
For Elevated Installation >25' To 30', Add	61.39	
For Elevated Installation >30' To 35', Add	70.16	
For Elevated Installation >35' To 40', Add	87.71	
For Elevated Installation >40', Add	96.48	
For Work In Restricted Working Space, Add	52.62	
26 05 33 13-1121 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	1,182.06	121.50
For Elevated Installation >10' To 15', Add	24.30	
For Elevated Installation >15' To 20', Add	48.60	
For Elevated Installation >20' To 25', Add	60.76	
For Elevated Installation >25' To 30', Add	85.06	
For Elevated Installation >30' To 35', Add	97.21	
For Elevated Installation >35' To 40', Add	121.51	
For Elevated Installation >40', Add	133.66	
For Work In Restricted Working Space, Add	72.91	
26 05 33 13-1122 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	1,268.16	164.45
For Elevated Installation >10' To 15', Add	32.89	
For Elevated Installation >15' To 20', Add	65.78	
For Elevated Installation >20' To 25', Add	82.23	
For Elevated Installation >25' To 30', Add	115.12	
For Elevated Installation >30' To 35', Add	131.56	
For Elevated Installation >35' To 40', Add	164.45	
For Elevated Installation >40', Add	180.90	
For Work In Restricted Working Space, Add	98.67	
26 05 33 13-1123 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow .....	2,038.08	205.55
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.23	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.90	
For Elevated Installation >30' To 35', Add	164.45	
For Elevated Installation >35' To 40', Add	205.57	
For Elevated Installation >40', Add	226.12	
For Work In Restricted Working Space, Add	123.34	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1124 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Pulling Elbow.....	2,143.41	250.32
For Elevated Installation >10' To 15', Add	50.07	
For Elevated Installation >15' To 20', Add	100.14	
For Elevated Installation >20' To 25', Add	125.17	
For Elevated Installation >25' To 30', Add	175.24	
For Elevated Installation >30' To 35', Add	200.27	
For Elevated Installation >35' To 40', Add	250.34	
For Elevated Installation >40', Add	275.37	
For Work In Restricted Working Space, Add	150.20	
<b>26 05 33 13-1125 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbows (26 05 33 13-0848)</b>		
26 05 33 13-1126 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	282.69	43.85
For Elevated Installation >10' To 15', Add	8.77	
For Elevated Installation >15' To 20', Add	17.54	
For Elevated Installation >20' To 25', Add	21.93	
For Elevated Installation >25' To 30', Add	30.70	
For Elevated Installation >30' To 35', Add	35.08	
For Elevated Installation >35' To 40', Add	43.86	
For Elevated Installation >40', Add	48.24	
For Work In Restricted Working Space, Add	26.31	
26 05 33 13-1127 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	322.19	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-1128 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	611.96	57.56
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.04	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.31	
For Work In Restricted Working Space, Add	34.53	
26 05 33 13-1129 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	645.58	66.69
For Elevated Installation >10' To 15', Add	13.34	
For Elevated Installation >15' To 20', Add	26.68	
For Elevated Installation >20' To 25', Add	33.35	
For Elevated Installation >25' To 30', Add	46.69	
For Elevated Installation >30' To 35', Add	53.36	
For Elevated Installation >35' To 40', Add	66.70	
For Elevated Installation >40', Add	73.36	
For Work In Restricted Working Space, Add	40.02	
26 05 33 13-1130 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	872.16	73.09
For Elevated Installation >10' To 15', Add	14.62	
For Elevated Installation >15' To 20', Add	29.23	
For Elevated Installation >20' To 25', Add	36.54	
For Elevated Installation >25' To 30', Add	51.16	
For Elevated Installation >30' To 35', Add	58.47	
For Elevated Installation >35' To 40', Add	73.09	
For Elevated Installation >40', Add	80.39	
For Work In Restricted Working Space, Add	43.85	
26 05 33 13-1131 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	935.84	87.71
For Elevated Installation >10' To 15', Add	17.54	
For Elevated Installation >15' To 20', Add	35.08	
For Elevated Installation >20' To 25', Add	43.85	
For Elevated Installation >25' To 30', Add	61.39	
For Elevated Installation >30' To 35', Add	70.16	
For Elevated Installation >35' To 40', Add	87.71	
For Elevated Installation >40', Add	96.48	
For Work In Restricted Working Space, Add	52.62	
26 05 33 13-1132 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,773.59	123.34
For Elevated Installation >10' To 15', Add	24.67	
For Elevated Installation >15' To 20', Add	49.33	
For Elevated Installation >20' To 25', Add	61.67	
For Elevated Installation >25' To 30', Add	86.33	
For Elevated Installation >30' To 35', Add	98.67	
For Elevated Installation >35' To 40', Add	123.34	
For Elevated Installation >40', Add	135.67	
For Work In Restricted Working Space, Add	74.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1133 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	1,885.99	164.45
<i>For Elevated Installation &gt;10' To 15', Add</i>	32.89	
<i>For Elevated Installation &gt;15' To 20', Add</i>	65.78	
<i>For Elevated Installation &gt;20' To 25', Add</i>	82.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	115.11	
<i>For Elevated Installation &gt;30' To 35', Add</i>	131.56	
<i>For Elevated Installation &gt;35' To 40', Add</i>	164.45	
<i>For Elevated Installation &gt;40', Add</i>	180.89	
<i>For Work In Restricted Working Space, Add</i>	98.67	
26 05 33 13-1134 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	2,742.82	205.55
<i>For Elevated Installation &gt;10' To 15', Add</i>	41.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	82.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	102.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	143.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	164.44	
<i>For Elevated Installation &gt;35' To 40', Add</i>	205.56	
<i>For Elevated Installation &gt;40', Add</i>	226.11	
<i>For Work In Restricted Working Space, Add</i>	123.33	
26 05 33 13-1135 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Hazardous Locations Pulling Elbow.....	3,115.80	250.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	50.07	
<i>For Elevated Installation &gt;15' To 20', Add</i>	100.13	
<i>For Elevated Installation &gt;20' To 25', Add</i>	125.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	175.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	200.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	250.33	
<i>For Elevated Installation &gt;40', Add</i>	275.36	
<i>For Work In Restricted Working Space, Add</i>	150.20	
<b>26 05 33 13-1136 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbows <small>(26 05 33 13-0848)</small></b>		
26 05 33 13-1137 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	111.86	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	
26 05 33 13-1138 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	131.16	28.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.66	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.33	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.66	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.32	
<i>For Elevated Installation &gt;40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1139 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	156.81	34.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
<i>For Work In Restricted Working Space, Add</i>	20.83	
26 05 33 13-1140 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Male 90 Degree Malleable Elbow.....	184.66	40.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
<i>For Elevated Installation &gt;40', Add</i>	44.21	
<i>For Work In Restricted Working Space, Add</i>	24.12	

26 05 33 13-1141 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbows (26 05 33 13-0848)

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1142 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	90.74	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.14	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.99	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
26 05 33 13-1143 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	105.81	28.32
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.66	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
For Work In Restricted Working Space, Add	16.99	
26 05 33 13-1144 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	144.46	34.72
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
For Work In Restricted Working Space, Add	20.83	
26 05 33 13-1145 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	184.75	40.20
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.21	
For Work In Restricted Working Space, Add	24.12	
26 05 33 13-1146 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	223.34	45.68
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
For Work In Restricted Working Space, Add	27.41	
26 05 33 13-1147 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	312.69	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-1148 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 90 Degree Malleable Elbow.....	424.25	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
<b>26 05 33 13-1149 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbows</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1150 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow.....	111.91	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.14	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.99	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1151 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow .....	134.08	28.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.66	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.33	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.66	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.32	
<i>For Elevated Installation &gt;40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1152 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow .....	156.83	34.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
<i>For Work In Restricted Working Space, Add</i>	20.83	
26 05 33 13-1153 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Male To Female 90 Degree Malleable Elbow .....	184.70	40.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
<i>For Elevated Installation &gt;40', Add</i>	44.21	
<i>For Work In Restricted Working Space, Add</i>	24.12	
<b>26 05 33 13-1154 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbows (26 05 33 13-0848)</b>		
26 05 33 13-1155 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	90.82	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	
26 05 33 13-1156 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	105.81	28.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.66	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.33	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.66	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.32	
<i>For Elevated Installation &gt;40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1157 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	135.71	34.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
<i>For Work In Restricted Working Space, Add</i>	20.83	
26 05 33 13-1158 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	167.77	40.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
<i>For Elevated Installation &gt;40', Add</i>	44.21	
<i>For Work In Restricted Working Space, Add</i>	24.12	
26 05 33 13-1159 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow .....	195.67	45.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.25	
<i>For Work In Restricted Working Space, Add</i>	27.41	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1160 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	224.09	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-1161 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	401.65	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
26 05 33 13-1162 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	467.80	85.87
For Elevated Installation >10' To 15', Add	17.18	
For Elevated Installation >15' To 20', Add	34.35	
For Elevated Installation >20' To 25', Add	42.94	
For Elevated Installation >25' To 30', Add	60.11	
For Elevated Installation >30' To 35', Add	68.70	
For Elevated Installation >35' To 40', Add	85.88	
For Elevated Installation >40', Add	94.46	
For Work In Restricted Working Space, Add	51.53	
26 05 33 13-1163 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	507.01	96.84
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
For Work In Restricted Working Space, Add	58.10	
26 05 33 13-1164 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Female To Female 45 Degree Malleable Elbow.....	629.13	126.07
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.25	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.68	
For Work In Restricted Working Space, Add	75.65	
<b>26 05 33 13-1165 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbows <small>(26 05 33 13-0848)</small></b>		
26 05 33 13-1166 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	187.94	43.85
For Elevated Installation >10' To 15', Add	8.77	
For Elevated Installation >15' To 20', Add	17.54	
For Elevated Installation >20' To 25', Add	21.93	
For Elevated Installation >25' To 30', Add	30.70	
For Elevated Installation >30' To 35', Add	35.08	
For Elevated Installation >35' To 40', Add	43.86	
For Elevated Installation >40', Add	48.24	
For Work In Restricted Working Space, Add	26.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.31	
26 05 33 13-1167 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	204.66	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	30.15	
26 05 33 13-1168 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	225.44	57.56
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.04	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.31	
For Work In Restricted Working Space, Add	34.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	34.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1169 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	296.98	66.69
For Elevated Installation >10' To 15', Add	13.34	
For Elevated Installation >15' To 20', Add	26.68	
For Elevated Installation >20' To 25', Add	33.35	
For Elevated Installation >25' To 30', Add	46.69	
For Elevated Installation >30' To 35', Add	53.36	
For Elevated Installation >35' To 40', Add	66.70	
For Elevated Installation >40', Add	73.36	
For Work In Restricted Working Space, Add	40.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.02	
26 05 33 13-1170 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Service Entrance Elbow.....	371.40	73.09
For Elevated Installation >10' To 15', Add	14.62	
For Elevated Installation >15' To 20', Add	29.23	
For Elevated Installation >20' To 25', Add	36.54	
For Elevated Installation >25' To 30', Add	51.16	
For Elevated Installation >30' To 35', Add	58.47	
For Elevated Installation >35' To 40', Add	73.09	
For Elevated Installation >40', Add	80.39	
For Work In Restricted Working Space, Add	43.85	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	43.85	
<b>26 05 33 13-1171 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Boxes With Cast Iron Cover</b>		
(26 05 33 13-0848)		
26 05 33 13-1172 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	221.41	43.85
For Elevated Installation >10' To 15', Add	8.77	
For Elevated Installation >15' To 20', Add	17.54	
For Elevated Installation >20' To 25', Add	21.93	
For Elevated Installation >25' To 30', Add	30.70	
For Elevated Installation >30' To 35', Add	35.08	
For Elevated Installation >35' To 40', Add	43.86	
For Elevated Installation >40', Add	48.24	
For Work In Restricted Working Space, Add	26.31	
26 05 33 13-1173 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	240.18	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-1174 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	280.10	57.56
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.04	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.31	
For Work In Restricted Working Space, Add	34.53	
26 05 33 13-1175 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	391.84	66.69
For Elevated Installation >10' To 15', Add	13.34	
For Elevated Installation >15' To 20', Add	26.68	
For Elevated Installation >20' To 25', Add	33.35	
For Elevated Installation >25' To 30', Add	46.69	
For Elevated Installation >30' To 35', Add	53.36	
For Elevated Installation >35' To 40', Add	66.70	
For Elevated Installation >40', Add	73.36	
For Work In Restricted Working Space, Add	40.02	
26 05 33 13-1176 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	617.21	73.09
For Elevated Installation >10' To 15', Add	14.62	
For Elevated Installation >15' To 20', Add	29.23	
For Elevated Installation >20' To 25', Add	36.54	
For Elevated Installation >25' To 30', Add	51.16	
For Elevated Installation >30' To 35', Add	58.47	
For Elevated Installation >35' To 40', Add	73.09	
For Elevated Installation >40', Add	80.39	
For Work In Restricted Working Space, Add	43.85	
26 05 33 13-1177 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAB, GUAC, GUAL, GUAN Junction Box With Cast Iron Cover.....	671.70	87.71
For Elevated Installation >10' To 15', Add	17.54	
For Elevated Installation >15' To 20', Add	35.08	
For Elevated Installation >20' To 25', Add	43.85	
For Elevated Installation >25' To 30', Add	61.39	
For Elevated Installation >30' To 35', Add	70.16	
For Elevated Installation >35' To 40', Add	87.71	
For Elevated Installation >40', Add	96.48	
For Work In Restricted Working Space, Add	52.62	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 05 33 13-1178		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Boxes With Cast Iron Cover</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1179	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	240.40	43.85
		<i>For Elevated Installation &gt;10' To 15', Add</i>	8.77	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	17.54	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	21.93	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	30.70	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	35.08	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	43.86	
		<i>For Elevated Installation &gt;40', Add</i>	48.24	
		<i>For Work In Restricted Working Space, Add</i>	26.31	
26 05 33 13-1180	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	271.86	50.25
		<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
		<i>For Elevated Installation &gt;40', Add</i>	55.27	
		<i>For Work In Restricted Working Space, Add</i>	30.15	
26 05 33 13-1181	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	298.17	57.56
		<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
		<i>For Elevated Installation &gt;40', Add</i>	63.31	
		<i>For Work In Restricted Working Space, Add</i>	34.53	
26 05 33 13-1182	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	410.21	66.69
		<i>For Elevated Installation &gt;10' To 15', Add</i>	13.34	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	26.68	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	33.35	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	46.69	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	53.36	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	66.70	
		<i>For Elevated Installation &gt;40', Add</i>	73.36	
		<i>For Work In Restricted Working Space, Add</i>	40.02	
26 05 33 13-1183	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	661.02	73.09
		<i>For Elevated Installation &gt;10' To 15', Add</i>	14.62	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	29.23	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	36.54	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	51.16	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	58.47	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	73.09	
		<i>For Elevated Installation &gt;40', Add</i>	80.39	
		<i>For Work In Restricted Working Space, Add</i>	43.85	
26 05 33 13-1184	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAT Junction Box With Cast Iron Cover .....	711.91	87.71
		<i>For Elevated Installation &gt;10' To 15', Add</i>	17.54	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	35.08	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	43.85	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	61.39	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	70.16	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	87.71	
		<i>For Elevated Installation &gt;40', Add</i>	96.48	
		<i>For Work In Restricted Working Space, Add</i>	52.62	
26 05 33 13-1185		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Boxes With Cast Iron Cover</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1186	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	240.54	43.85
		<i>For Elevated Installation &gt;10' To 15', Add</i>	8.77	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	17.54	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	21.93	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	30.70	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	35.08	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	43.86	
		<i>For Elevated Installation &gt;40', Add</i>	48.24	
		<i>For Work In Restricted Working Space, Add</i>	26.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1187 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	266.25	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.27	
<i>For Work In Restricted Working Space, Add</i>	30.15	
26 05 33 13-1188 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	315.62	57.56
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
<i>For Elevated Installation &gt;40', Add</i>	63.31	
<i>For Work In Restricted Working Space, Add</i>	34.53	
26 05 33 13-1189 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	424.20	66.69
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.68	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.35	
<i>For Elevated Installation &gt;25' To 30', Add</i>	46.69	
<i>For Elevated Installation &gt;30' To 35', Add</i>	53.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	66.70	
<i>For Elevated Installation &gt;40', Add</i>	73.36	
<i>For Work In Restricted Working Space, Add</i>	40.02	
26 05 33 13-1190 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	681.90	73.09
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	29.23	
<i>For Elevated Installation &gt;20' To 25', Add</i>	36.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	51.16	
<i>For Elevated Installation &gt;30' To 35', Add</i>	58.47	
<i>For Elevated Installation &gt;35' To 40', Add</i>	73.09	
<i>For Elevated Installation &gt;40', Add</i>	80.39	
<i>For Work In Restricted Working Space, Add</i>	43.85	
26 05 33 13-1191 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAW, GUAX Junction Box With Cast Iron Cover .....	737.65	87.71
<i>For Elevated Installation &gt;10' To 15', Add</i>	17.54	
<i>For Elevated Installation &gt;15' To 20', Add</i>	35.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	43.85	
<i>For Elevated Installation &gt;25' To 30', Add</i>	61.39	
<i>For Elevated Installation &gt;30' To 35', Add</i>	70.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	87.71	
<i>For Elevated Installation &gt;40', Add</i>	96.48	
<i>For Work In Restricted Working Space, Add</i>	52.62	
<b>26 05 33 13-1192 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Boxes With Cast Iron Cover</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1193 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....	293.12	43.85
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.77	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.54	
<i>For Elevated Installation &gt;20' To 25', Add</i>	21.93	
<i>For Elevated Installation &gt;25' To 30', Add</i>	30.70	
<i>For Elevated Installation &gt;30' To 35', Add</i>	35.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	43.86	
<i>For Elevated Installation &gt;40', Add</i>	48.24	
<i>For Work In Restricted Working Space, Add</i>	26.31	
26 05 33 13-1194 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....	324.70	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.27	
<i>For Work In Restricted Working Space, Add</i>	30.15	
26 05 33 13-1195 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....	353.63	57.56
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
<i>For Elevated Installation &gt;40', Add</i>	63.31	
<i>For Work In Restricted Working Space, Add</i>	34.53	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1196 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) GUAD Junction Box With Cast Iron Cover .....	849.14	66.69
For Elevated Installation >10' To 15', Add	13.34	
For Elevated Installation >15' To 20', Add	26.68	
For Elevated Installation >20' To 25', Add	33.35	
For Elevated Installation >25' To 30', Add	46.69	
For Elevated Installation >30' To 35', Add	53.36	
For Elevated Installation >35' To 40', Add	66.70	
For Elevated Installation >40', Add	73.36	
For Work In Restricted Working Space, Add	40.02	
<b>26 05 33 13-1197 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Boxes (26 05 33 13-0848)</b>		
Note: Excludes cover.		
26 05 33 13-1198 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....	152.93	43.85
For Elevated Installation >10' To 15', Add	8.77	
For Elevated Installation >15' To 20', Add	17.54	
For Elevated Installation >20' To 25', Add	21.93	
For Elevated Installation >25' To 30', Add	30.70	
For Elevated Installation >30' To 35', Add	35.08	
For Elevated Installation >35' To 40', Add	43.86	
For Elevated Installation >40', Add	48.24	
For Work In Restricted Working Space, Add	26.31	
26 05 33 13-1199 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....	169.24	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-1200 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....	189.75	57.56
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.04	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.31	
For Work In Restricted Working Space, Add	34.53	
26 05 33 13-1201 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....	167.18	43.85
For Elevated Installation >10' To 15', Add	8.77	
For Elevated Installation >15' To 20', Add	17.54	
For Elevated Installation >20' To 25', Add	21.93	
For Elevated Installation >25' To 30', Add	30.70	
For Elevated Installation >30' To 35', Add	35.08	
For Elevated Installation >35' To 40', Add	43.86	
For Elevated Installation >40', Add	48.24	
For Work In Restricted Working Space, Add	26.31	
26 05 33 13-1202 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....	181.70	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	
26 05 33 13-1203 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FS Series Junction Box .....	207.08	57.56
For Elevated Installation >10' To 15', Add	11.51	
For Elevated Installation >15' To 20', Add	23.02	
For Elevated Installation >20' To 25', Add	28.78	
For Elevated Installation >25' To 30', Add	40.29	
For Elevated Installation >30' To 35', Add	46.04	
For Elevated Installation >35' To 40', Add	57.56	
For Elevated Installation >40', Add	63.31	
For Work In Restricted Working Space, Add	34.53	
<b>26 05 33 13-1204 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Boxes (26 05 33 13-0848)</b>		
Note: Excludes cover.		
26 05 33 13-1205 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box .....	159.67	43.85
For Elevated Installation >10' To 15', Add	8.77	
For Elevated Installation >15' To 20', Add	17.54	
For Elevated Installation >20' To 25', Add	21.93	
For Elevated Installation >25' To 30', Add	30.70	
For Elevated Installation >30' To 35', Add	35.08	
For Elevated Installation >35' To 40', Add	43.86	
For Elevated Installation >40', Add	48.24	
For Work In Restricted Working Space, Add	26.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1206 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	176.82	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.27	
<i>For Work In Restricted Working Space, Add</i>	30.15	
26 05 33 13-1207 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	194.99	57.56
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
<i>For Elevated Installation &gt;40', Add</i>	63.31	
<i>For Work In Restricted Working Space, Add</i>	34.53	
26 05 33 13-1208 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	176.83	43.85
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.77	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.54	
<i>For Elevated Installation &gt;20' To 25', Add</i>	21.93	
<i>For Elevated Installation &gt;25' To 30', Add</i>	30.70	
<i>For Elevated Installation &gt;30' To 35', Add</i>	35.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	43.86	
<i>For Elevated Installation &gt;40', Add</i>	48.24	
<i>For Work In Restricted Working Space, Add</i>	26.31	
26 05 33 13-1209 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	194.15	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.27	
<i>For Work In Restricted Working Space, Add</i>	30.15	
26 05 33 13-1210 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) FD Series Junction Box.....	219.88	57.56
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
<i>For Elevated Installation &gt;40', Add</i>	63.31	
<i>For Work In Restricted Working Space, Add</i>	34.53	
<b>26 05 33 13-1211 Polyvinyl Chloride (PVC) Coated, Urethane Lined, FS And FD Series Covers</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1212 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS23, FS And FD Series Cover .....	51.31	5.48
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.10	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.19	
<i>For Elevated Installation &gt;20' To 25', Add</i>	2.74	
<i>For Elevated Installation &gt;25' To 30', Add</i>	3.84	
<i>For Elevated Installation &gt;30' To 35', Add</i>	4.38	
<i>For Elevated Installation &gt;35' To 40', Add</i>	5.48	
<i>For Elevated Installation &gt;40', Add</i>	6.03	
<i>For Work In Restricted Working Space, Add</i>	3.29	
26 05 33 13-1213 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS21G, FS And FD Series Cover.....	69.24	6.39
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.28	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.56	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.20	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.48	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.40	
<i>For Elevated Installation &gt;40', Add</i>	7.03	
<i>For Work In Restricted Working Space, Add</i>	3.84	
26 05 33 13-1214 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS32G, FS And FD Series Cover.....	65.54	6.39
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.28	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.56	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.20	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.48	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.40	
<i>For Elevated Installation &gt;40', Add</i>	7.03	
<i>For Work In Restricted Working Space, Add</i>	3.84	
26 05 33 13-1215 EA Polyvinyl Chloride (PVC) Coated, Urethane Lined, DS100G, FS And FD Series Cover.....	58.63	6.39
<i>For Elevated Installation &gt;10' To 15', Add</i>	1.28	
<i>For Elevated Installation &gt;15' To 20', Add</i>	2.56	
<i>For Elevated Installation &gt;20' To 25', Add</i>	3.20	
<i>For Elevated Installation &gt;25' To 30', Add</i>	4.48	
<i>For Elevated Installation &gt;30' To 35', Add</i>	5.12	
<i>For Elevated Installation &gt;35' To 40', Add</i>	6.40	
<i>For Elevated Installation &gt;40', Add</i>	7.03	
<i>For Work In Restricted Working Space, Add</i>	3.84	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1216	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRD1, FS And FD Series Cover .....	274.41	9.14
		<i>For Elevated Installation &gt;10' To 15', Add</i>	1.83	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	3.66	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	4.57	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	6.40	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	7.31	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	9.14	
		<i>For Elevated Installation &gt;40', Add</i>	10.05	
		<i>For Work In Restricted Working Space, Add</i>	5.48	
26 05 33 13-1217	EA	Polyvinyl Chloride (PVC) Coated, Urethane Lined, WLRS1, FS And FD Series Cover .....	244.45	9.14
		<i>For Elevated Installation &gt;10' To 15', Add</i>	1.83	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	3.66	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	4.57	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	6.40	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	7.31	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	9.14	
		<i>For Elevated Installation &gt;40', Add</i>	10.05	
		<i>For Work In Restricted Working Space, Add</i>	5.48	
26 05 33 13-1218		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Mogul Conduit Bodies</b> <small>(26 05 33 13-0848)</small>		
		Note: Includes covers.		
26 05 33 13-1219	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....	311.75	57.56
		<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
		<i>For Elevated Installation &gt;40', Add</i>	63.31	
		<i>For Work In Restricted Working Space, Add</i>	34.53	
26 05 33 13-1220	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....	351.25	66.69
		<i>For Elevated Installation &gt;10' To 15', Add</i>	13.34	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	26.68	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	33.35	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	46.69	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	53.36	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	66.70	
		<i>For Elevated Installation &gt;40', Add</i>	73.36	
		<i>For Work In Restricted Working Space, Add</i>	40.02	
26 05 33 13-1221	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....	475.06	73.09
		<i>For Elevated Installation &gt;10' To 15', Add</i>	14.62	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	29.23	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	36.54	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	51.16	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	58.47	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	73.09	
		<i>For Elevated Installation &gt;40', Add</i>	80.39	
		<i>For Work In Restricted Working Space, Add</i>	43.85	
26 05 33 13-1222	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....	566.40	87.71
		<i>For Elevated Installation &gt;10' To 15', Add</i>	17.54	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	35.08	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	43.85	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	61.39	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	70.16	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	87.71	
		<i>For Elevated Installation &gt;40', Add</i>	96.48	
		<i>For Work In Restricted Working Space, Add</i>	52.62	
26 05 33 13-1223	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....	816.49	123.34
		<i>For Elevated Installation &gt;10' To 15', Add</i>	24.67	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	49.33	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	61.67	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	86.33	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	98.67	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	123.34	
		<i>For Elevated Installation &gt;40', Add</i>	135.67	
		<i>For Work In Restricted Working Space, Add</i>	74.00	
26 05 33 13-1224	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....	1,034.85	164.45
		<i>For Elevated Installation &gt;10' To 15', Add</i>	32.89	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	65.78	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	82.22	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	115.11	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	131.56	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	164.45	
		<i>For Elevated Installation &gt;40', Add</i>	180.89	
		<i>For Work In Restricted Working Space, Add</i>	98.67	
26 05 33 13-1225	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....	1,498.37	205.55
		<i>For Elevated Installation &gt;10' To 15', Add</i>	41.11	
		<i>For Elevated Installation &gt;15' To 20', Add</i>	82.22	
		<i>For Elevated Installation &gt;20' To 25', Add</i>	102.78	
		<i>For Elevated Installation &gt;25' To 30', Add</i>	143.89	
		<i>For Elevated Installation &gt;30' To 35', Add</i>	164.44	
		<i>For Elevated Installation &gt;35' To 40', Add</i>	205.56	
		<i>For Elevated Installation &gt;40', Add</i>	226.11	
		<i>For Work In Restricted Working Space, Add</i>	123.33	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1226 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BC Mogul Conduit Body .....	1,856.73	250.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	50.07	
<i>For Elevated Installation &gt;15' To 20', Add</i>	100.13	
<i>For Elevated Installation &gt;20' To 25', Add</i>	125.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	175.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	200.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	250.33	
<i>For Elevated Installation &gt;40', Add</i>	275.36	
<i>For Work In Restricted Working Space, Add</i>	150.20	
26 05 33 13-1227 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....	311.75	57.56
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	23.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	40.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	46.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	57.56	
<i>For Elevated Installation &gt;40', Add</i>	63.31	
<i>For Work In Restricted Working Space, Add</i>	34.53	
26 05 33 13-1228 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....	351.25	66.69
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.34	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.68	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.35	
<i>For Elevated Installation &gt;25' To 30', Add</i>	46.69	
<i>For Elevated Installation &gt;30' To 35', Add</i>	53.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	66.70	
<i>For Elevated Installation &gt;40', Add</i>	73.36	
<i>For Work In Restricted Working Space, Add</i>	40.02	
26 05 33 13-1229 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....	473.85	73.09
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	29.23	
<i>For Elevated Installation &gt;20' To 25', Add</i>	36.54	
<i>For Elevated Installation &gt;25' To 30', Add</i>	51.16	
<i>For Elevated Installation &gt;30' To 35', Add</i>	58.47	
<i>For Elevated Installation &gt;35' To 40', Add</i>	73.09	
<i>For Elevated Installation &gt;40', Add</i>	80.39	
<i>For Work In Restricted Working Space, Add</i>	43.85	
26 05 33 13-1230 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....	554.20	87.71
<i>For Elevated Installation &gt;10' To 15', Add</i>	17.54	
<i>For Elevated Installation &gt;15' To 20', Add</i>	35.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	43.85	
<i>For Elevated Installation &gt;25' To 30', Add</i>	61.39	
<i>For Elevated Installation &gt;30' To 35', Add</i>	70.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	87.71	
<i>For Elevated Installation &gt;40', Add</i>	96.48	
<i>For Work In Restricted Working Space, Add</i>	52.62	
26 05 33 13-1231 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....	827.73	123.34
<i>For Elevated Installation &gt;10' To 15', Add</i>	24.67	
<i>For Elevated Installation &gt;15' To 20', Add</i>	49.33	
<i>For Elevated Installation &gt;20' To 25', Add</i>	61.67	
<i>For Elevated Installation &gt;25' To 30', Add</i>	86.33	
<i>For Elevated Installation &gt;30' To 35', Add</i>	98.67	
<i>For Elevated Installation &gt;35' To 40', Add</i>	123.34	
<i>For Elevated Installation &gt;40', Add</i>	135.67	
<i>For Work In Restricted Working Space, Add</i>	74.00	
26 05 33 13-1232 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....	1,085.26	164.45
<i>For Elevated Installation &gt;10' To 15', Add</i>	32.89	
<i>For Elevated Installation &gt;15' To 20', Add</i>	65.78	
<i>For Elevated Installation &gt;20' To 25', Add</i>	82.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	115.11	
<i>For Elevated Installation &gt;30' To 35', Add</i>	131.56	
<i>For Elevated Installation &gt;35' To 40', Add</i>	164.45	
<i>For Elevated Installation &gt;40', Add</i>	180.89	
<i>For Work In Restricted Working Space, Add</i>	98.67	
26 05 33 13-1233 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....	1,559.22	205.55
<i>For Elevated Installation &gt;10' To 15', Add</i>	41.11	
<i>For Elevated Installation &gt;15' To 20', Add</i>	82.22	
<i>For Elevated Installation &gt;20' To 25', Add</i>	102.78	
<i>For Elevated Installation &gt;25' To 30', Add</i>	143.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	164.44	
<i>For Elevated Installation &gt;35' To 40', Add</i>	205.56	
<i>For Elevated Installation &gt;40', Add</i>	226.11	
<i>For Work In Restricted Working Space, Add</i>	123.33	
26 05 33 13-1234 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BLB Mogul Conduit Body .....	1,894.62	250.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	50.07	
<i>For Elevated Installation &gt;15' To 20', Add</i>	100.13	
<i>For Elevated Installation &gt;20' To 25', Add</i>	125.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	175.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	200.26	
<i>For Elevated Installation &gt;35' To 40', Add</i>	250.33	
<i>For Elevated Installation &gt;40', Add</i>	275.36	
<i>For Work In Restricted Working Space, Add</i>	150.20	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1235 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	311.75 11.51 23.02 28.78 40.29 46.04 57.56 63.31 34.53	57.56
26 05 33 13-1236 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	351.25 13.34 26.68 33.35 46.69 53.36 66.70 73.36 40.02	66.69
26 05 33 13-1237 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	473.85 14.62 29.23 36.54 51.16 58.47 73.09 80.39 43.85	73.09
26 05 33 13-1238 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	554.20 17.54 35.08 43.85 61.39 70.16 87.71 96.48 52.62	87.71
26 05 33 13-1239 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	827.73 24.67 49.33 61.67 86.33 98.67 123.34 135.67 74.00	123.34
26 05 33 13-1240 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,085.26 32.89 65.78 82.22 115.11 131.56 164.45 180.89 98.67	164.45
26 05 33 13-1241 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,559.22 41.11 82.22 102.78 143.89 164.44 205.56 226.11 123.33	205.55
26 05 33 13-1242 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BT Mogul Conduit Body ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	1,894.62 50.07 100.13 125.16 175.23 200.26 250.33 275.36 150.20	250.32
26 05 33 13-1243 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body ..... <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Work In Restricted Working Space, Add</i>	311.75 11.51 23.02 28.78 40.29 46.04 57.56 63.31 34.53	57.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1244 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body .....	351.25	66.69
For Elevated Installation >10' To 15', Add	13.34	
For Elevated Installation >15' To 20', Add	26.68	
For Elevated Installation >20' To 25', Add	33.35	
For Elevated Installation >25' To 30', Add	46.69	
For Elevated Installation >30' To 35', Add	53.36	
For Elevated Installation >35' To 40', Add	66.70	
For Elevated Installation >40', Add	73.36	
For Work In Restricted Working Space, Add	40.02	
26 05 33 13-1245 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body .....	475.06	73.09
For Elevated Installation >10' To 15', Add	14.62	
For Elevated Installation >15' To 20', Add	29.23	
For Elevated Installation >20' To 25', Add	36.54	
For Elevated Installation >25' To 30', Add	51.16	
For Elevated Installation >30' To 35', Add	58.47	
For Elevated Installation >35' To 40', Add	73.09	
For Elevated Installation >40', Add	80.39	
For Work In Restricted Working Space, Add	43.85	
26 05 33 13-1246 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	560.77	87.71
For Elevated Installation >10' To 15', Add	17.54	
For Elevated Installation >15' To 20', Add	35.08	
For Elevated Installation >20' To 25', Add	43.85	
For Elevated Installation >25' To 30', Add	61.39	
For Elevated Installation >30' To 35', Add	70.16	
For Elevated Installation >35' To 40', Add	87.71	
For Elevated Installation >40', Add	96.48	
For Work In Restricted Working Space, Add	52.62	
26 05 33 13-1247 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body .....	816.49	123.34
For Elevated Installation >10' To 15', Add	24.67	
For Elevated Installation >15' To 20', Add	49.33	
For Elevated Installation >20' To 25', Add	61.67	
For Elevated Installation >25' To 30', Add	86.33	
For Elevated Installation >30' To 35', Add	98.67	
For Elevated Installation >35' To 40', Add	123.34	
For Elevated Installation >40', Add	135.67	
For Work In Restricted Working Space, Add	74.00	
26 05 33 13-1248 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,034.85	164.45
For Elevated Installation >10' To 15', Add	32.89	
For Elevated Installation >15' To 20', Add	65.78	
For Elevated Installation >20' To 25', Add	82.22	
For Elevated Installation >25' To 30', Add	115.11	
For Elevated Installation >30' To 35', Add	131.56	
For Elevated Installation >35' To 40', Add	164.45	
For Elevated Installation >40', Add	180.89	
For Work In Restricted Working Space, Add	98.67	
26 05 33 13-1249 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body .....	1,498.37	205.55
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
For Work In Restricted Working Space, Add	123.33	
26 05 33 13-1250 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) BUB Mogul Conduit Body.....	1,872.51	250.32
For Elevated Installation >10' To 15', Add	50.07	
For Elevated Installation >15' To 20', Add	100.13	
For Elevated Installation >20' To 25', Add	125.16	
For Elevated Installation >25' To 30', Add	175.23	
For Elevated Installation >30' To 35', Add	200.26	
For Elevated Installation >35' To 40', Add	250.33	
For Elevated Installation >40', Add	275.36	
For Work In Restricted Working Space, Add	150.20	
<b>26 05 33 13-1251 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Covers</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1252 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	144.56	8.23
For Elevated Installation >10' To 15', Add	1.64	
For Elevated Installation >15' To 20', Add	3.29	
For Elevated Installation >20' To 25', Add	4.11	
For Elevated Installation >25' To 30', Add	5.75	
For Elevated Installation >30' To 35', Add	6.58	
For Elevated Installation >35' To 40', Add	8.22	
For Elevated Installation >40', Add	9.04	
For Work In Restricted Working Space, Add	4.93	
26 05 33 13-1253 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover .....	146.40	9.14
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.66	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.40	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Work In Restricted Working Space, Add	5.48	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1254 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	206.88	12.79
For Elevated Installation >10' To 15', Add	2.56	
For Elevated Installation >15' To 20', Add	5.12	
For Elevated Installation >20' To 25', Add	6.40	
For Elevated Installation >25' To 30', Add	8.95	
For Elevated Installation >30' To 35', Add	10.23	
For Elevated Installation >35' To 40', Add	12.79	
For Elevated Installation >40', Add	14.07	
For Work In Restricted Working Space, Add	7.67	
26 05 33 13-1255 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	210.54	14.62
For Elevated Installation >10' To 15', Add	2.92	
For Elevated Installation >15' To 20', Add	5.85	
For Elevated Installation >20' To 25', Add	7.31	
For Elevated Installation >25' To 30', Add	10.23	
For Elevated Installation >30' To 35', Add	11.70	
For Elevated Installation >35' To 40', Add	14.62	
For Elevated Installation >40', Add	16.08	
For Work In Restricted Working Space, Add	8.77	
26 05 33 13-1256 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	363.71	17.35
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.94	
For Elevated Installation >20' To 25', Add	8.68	
For Elevated Installation >25' To 30', Add	12.15	
For Elevated Installation >30' To 35', Add	13.89	
For Elevated Installation >35' To 40', Add	17.36	
For Elevated Installation >40', Add	19.10	
For Work In Restricted Working Space, Add	10.42	
26 05 33 13-1257 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	372.84	21.92
For Elevated Installation >10' To 15', Add	4.39	
For Elevated Installation >15' To 20', Add	8.77	
For Elevated Installation >20' To 25', Add	10.96	
For Elevated Installation >25' To 30', Add	15.35	
For Elevated Installation >30' To 35', Add	17.54	
For Elevated Installation >35' To 40', Add	21.93	
For Elevated Installation >40', Add	24.12	
For Work In Restricted Working Space, Add	13.16	
26 05 33 13-1258 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	557.27	24.67
For Elevated Installation >10' To 15', Add	4.93	
For Elevated Installation >15' To 20', Add	9.87	
For Elevated Installation >20' To 25', Add	12.33	
For Elevated Installation >25' To 30', Add	17.27	
For Elevated Installation >30' To 35', Add	19.73	
For Elevated Installation >35' To 40', Add	24.67	
For Elevated Installation >40', Add	27.13	
For Work In Restricted Working Space, Add	14.80	
26 05 33 13-1259 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Replacement Rigid Galvanized Steel (RGS) Mogul Cover.....	571.89	31.97
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.79	
For Elevated Installation >20' To 25', Add	15.99	
For Elevated Installation >25' To 30', Add	22.38	
For Elevated Installation >30' To 35', Add	25.58	
For Elevated Installation >35' To 40', Add	31.98	
For Elevated Installation >40', Add	35.17	
For Work In Restricted Working Space, Add	19.19	
<b>26 05 33 13-1260 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings (26 05 33 13-0848)</b>		
26 05 33 13-1261 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	253.39	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.14	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.99	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
26 05 33 13-1262 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	300.06	28.32
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.66	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
For Work In Restricted Working Space, Add	16.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1263 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	355.79	34.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
<i>For Work In Restricted Working Space, Add</i>	20.83	
26 05 33 13-1264 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	437.00	40.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
<i>For Elevated Installation &gt;40', Add</i>	44.21	
<i>For Work In Restricted Working Space, Add</i>	24.12	
26 05 33 13-1265 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	580.07	45.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.25	
<i>For Work In Restricted Working Space, Add</i>	27.41	
26 05 33 13-1266 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	796.47	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.27	
<i>For Work In Restricted Working Space, Add</i>	30.15	
26 05 33 13-1267 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,133.04	63.04
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	50.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	63.04	
<i>For Elevated Installation &gt;40', Add</i>	69.34	
<i>For Work In Restricted Working Space, Add</i>	37.82	
26 05 33 13-1268 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,412.69	85.87
<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18	
<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35	
<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94	
<i>For Elevated Installation &gt;25' To 30', Add</i>	60.11	
<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70	
<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88	
<i>For Elevated Installation &gt;40', Add</i>	94.46	
<i>For Work In Restricted Working Space, Add</i>	51.53	
26 05 33 13-1269 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	1,969.99	96.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	19.37	
<i>For Elevated Installation &gt;15' To 20', Add</i>	38.74	
<i>For Elevated Installation &gt;20' To 25', Add</i>	48.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	67.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	77.47	
<i>For Elevated Installation &gt;35' To 40', Add</i>	96.84	
<i>For Elevated Installation &gt;40', Add</i>	106.52	
<i>For Work In Restricted Working Space, Add</i>	58.10	
26 05 33 13-1270 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting.....	2,277.87	126.07
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.08	
<i>For Elevated Installation &gt;40', Add</i>	138.68	
<i>For Work In Restricted Working Space, Add</i>	75.65	
<b>26 05 33 13-1271 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fittings With Bonding Jumper</b>		
<small>(26 05 33 13-0848)</small>		
26 05 33 13-1272 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper .....	395.69	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1273	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	413.25	28.32
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.66	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	11.33	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	14.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	19.82	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	22.66	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	28.32	
			<i>For Elevated Installation &gt;40', Add</i>	31.15	
			<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33	13-1274	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	465.62	34.72
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
			<i>For Elevated Installation &gt;40', Add</i>	38.19	
			<i>For Work In Restricted Working Space, Add</i>	20.83	
26 05 33	13-1275	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	562.50	40.20
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
			<i>For Elevated Installation &gt;40', Add</i>	44.21	
			<i>For Work In Restricted Working Space, Add</i>	24.12	
26 05 33	13-1276	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	680.27	45.68
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
			<i>For Elevated Installation &gt;40', Add</i>	50.25	
			<i>For Work In Restricted Working Space, Add</i>	27.41	
26 05 33	13-1277	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	865.46	50.25
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
			<i>For Elevated Installation &gt;40', Add</i>	55.27	
			<i>For Work In Restricted Working Space, Add</i>	30.15	
26 05 33	13-1278	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,272.00	63.04
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	50.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	63.04	
			<i>For Elevated Installation &gt;40', Add</i>	69.34	
			<i>For Work In Restricted Working Space, Add</i>	37.82	
26 05 33	13-1279	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	1,598.39	85.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.18	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.35	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	42.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	60.11	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	68.70	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	85.88	
			<i>For Elevated Installation &gt;40', Add</i>	94.46	
			<i>For Work In Restricted Working Space, Add</i>	51.53	
26 05 33	13-1280	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper	2,029.94	96.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	19.37	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	38.74	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	48.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	67.79	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	77.47	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	96.84	
			<i>For Elevated Installation &gt;40', Add</i>	106.52	
			<i>For Work In Restricted Working Space, Add</i>	58.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1281 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Expansion Fitting With Bonding Jumper .....	2,543.38	126.07
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.22	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.43	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.04	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.25	
<i>For Elevated Installation &gt;30' To 35', Add</i>	100.86	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.08	
<i>For Elevated Installation &gt;40', Add</i>	138.68	
<i>For Work In Restricted Working Space, Add</i>	75.65	
<b>26 05 33 13-1282 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STG Knockout Hubs (26 05 33 13-0848)</b>		
26 05 33 13-1283 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....	85.47	10.96
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.19	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.38	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.67	
<i>For Elevated Installation &gt;30' To 35', Add</i>	8.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	10.96	
<i>For Elevated Installation &gt;40', Add</i>	12.06	
<i>For Work In Restricted Working Space, Add</i>	6.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.58	
26 05 33 13-1284 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....	93.63	13.71
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
<i>For Elevated Installation &gt;40', Add</i>	15.07	
<i>For Work In Restricted Working Space, Add</i>	8.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 05 33 13-1285 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....	103.74	16.44
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.29	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.58	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	11.51	
<i>For Elevated Installation &gt;30' To 35', Add</i>	13.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	16.45	
<i>For Elevated Installation &gt;40', Add</i>	18.09	
<i>For Work In Restricted Working Space, Add</i>	9.87	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.87	
26 05 33 13-1286 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....	118.15	20.10
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.02	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.04	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.05	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	20.10	
<i>For Elevated Installation &gt;40', Add</i>	22.11	
<i>For Work In Restricted Working Space, Add</i>	12.06	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.06	
26 05 33 13-1287 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....	156.71	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33 13-1288 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....	190.27	25.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.12	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.23	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	17.91	
<i>For Elevated Installation &gt;30' To 35', Add</i>	20.46	
<i>For Elevated Installation &gt;35' To 40', Add</i>	25.58	
<i>For Elevated Installation &gt;40', Add</i>	28.14	
<i>For Work In Restricted Working Space, Add</i>	15.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.35	
26 05 33 13-1289 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub .....	269.92	31.97
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.40	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.79	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.99	
<i>For Elevated Installation &gt;25' To 30', Add</i>	22.38	
<i>For Elevated Installation &gt;30' To 35', Add</i>	25.58	
<i>For Elevated Installation &gt;35' To 40', Add</i>	31.98	
<i>For Elevated Installation &gt;40', Add</i>	35.17	
<i>For Work In Restricted Working Space, Add</i>	19.19	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.19	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1290	EA		3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub ..... 353.01		42.94
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.59	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.47	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.06	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	34.35	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	42.94	
			<i>For Elevated Installation &gt;40', Add</i>	47.23	
			<i>For Work In Restricted Working Space, Add</i>	25.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.76	
26 05 33 13-1291	EA		3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub ..... 447.36		48.42
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.68	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.37	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.21	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.74	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	48.42	
			<i>For Elevated Installation &gt;40', Add</i>	53.26	
			<i>For Work In Restricted Working Space, Add</i>	29.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.05	
26 05 33 13-1292	EA		4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub ..... 563.77		63.04
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	50.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	63.04	
			<i>For Elevated Installation &gt;40', Add</i>	69.34	
			<i>For Work In Restricted Working Space, Add</i>	37.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.82	
26 05 33 13-1293	EA		5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub ..... 713.67		102.32
			<i>For Elevated Installation &gt;10' To 15', Add</i>	20.46	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	40.93	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	51.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	71.62	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	81.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	102.32	
			<i>For Elevated Installation &gt;40', Add</i>	112.55	
			<i>For Work In Restricted Working Space, Add</i>	61.39	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.39	
26 05 33 13-1294	EA		6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STG Knockout Hub ..... 1,076.37		154.40
			<i>For Elevated Installation &gt;10' To 15', Add</i>	30.88	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	61.76	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	77.20	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	108.08	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	123.52	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	154.40	
			<i>For Elevated Installation &gt;40', Add</i>	169.83	
			<i>For Work In Restricted Working Space, Add</i>	92.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.64	
<b>26 05 33 13-1295 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTB Knockout Hubs (26 05 33 13-0848)</b>					
26 05 33 13-1296	EA		1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub ..... 125.90		10.96
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.19	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.38	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.48	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.67	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.77	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.96	
			<i>For Elevated Installation &gt;40', Add</i>	12.06	
			<i>For Work In Restricted Working Space, Add</i>	6.58	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.58	
26 05 33 13-1297	EA		3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub ..... 134.35		13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 05 33 13-1298	EA		1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub ..... 145.35		16.44
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.29	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.58	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.22	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	11.51	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.16	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	16.45	
			<i>For Elevated Installation &gt;40', Add</i>	18.09	
			<i>For Work In Restricted Working Space, Add</i>	9.87	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.87	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1299 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....	166.67	20.10
For Elevated Installation >10' To 15', Add	4.02	
For Elevated Installation >15' To 20', Add	8.04	
For Elevated Installation >20' To 25', Add	10.05	
For Elevated Installation >25' To 30', Add	14.07	
For Elevated Installation >30' To 35', Add	16.08	
For Elevated Installation >35' To 40', Add	20.10	
For Elevated Installation >40', Add	22.11	
For Work In Restricted Working Space, Add	12.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.06	
26 05 33 13-1300 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....	179.62	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.14	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.99	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.70	
26 05 33 13-1301 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	203.03	25.58
For Elevated Installation >10' To 15', Add	5.12	
For Elevated Installation >15' To 20', Add	10.23	
For Elevated Installation >20' To 25', Add	12.79	
For Elevated Installation >25' To 30', Add	17.91	
For Elevated Installation >30' To 35', Add	20.46	
For Elevated Installation >35' To 40', Add	25.58	
For Elevated Installation >40', Add	28.14	
For Work In Restricted Working Space, Add	15.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.35	
26 05 33 13-1302 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....	305.73	31.97
For Elevated Installation >10' To 15', Add	6.40	
For Elevated Installation >15' To 20', Add	12.79	
For Elevated Installation >20' To 25', Add	15.99	
For Elevated Installation >25' To 30', Add	22.38	
For Elevated Installation >30' To 35', Add	25.58	
For Elevated Installation >35' To 40', Add	31.98	
For Elevated Installation >40', Add	35.17	
For Work In Restricted Working Space, Add	19.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.19	
26 05 33 13-1303 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	368.45	42.94
For Elevated Installation >10' To 15', Add	8.59	
For Elevated Installation >15' To 20', Add	17.18	
For Elevated Installation >20' To 25', Add	21.47	
For Elevated Installation >25' To 30', Add	30.06	
For Elevated Installation >30' To 35', Add	34.35	
For Elevated Installation >35' To 40', Add	42.94	
For Elevated Installation >40', Add	47.23	
For Work In Restricted Working Space, Add	25.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.76	
26 05 33 13-1304 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub .....	450.69	48.42
For Elevated Installation >10' To 15', Add	9.68	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.89	
For Elevated Installation >30' To 35', Add	38.74	
For Elevated Installation >35' To 40', Add	48.42	
For Elevated Installation >40', Add	53.26	
For Work In Restricted Working Space, Add	29.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	
26 05 33 13-1305 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	585.30	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.82	
26 05 33 13-1306 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	912.78	102.32
For Elevated Installation >10' To 15', Add	20.46	
For Elevated Installation >15' To 20', Add	40.93	
For Elevated Installation >20' To 25', Add	51.16	
For Elevated Installation >25' To 30', Add	71.62	
For Elevated Installation >30' To 35', Add	81.86	
For Elevated Installation >35' To 40', Add	102.32	
For Elevated Installation >40', Add	112.55	
For Work In Restricted Working Space, Add	61.39	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.39	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1307 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTB Knockout Hub.....	1,486.69	154.40
For Elevated Installation >10' To 15', Add	30.88	
For Elevated Installation >15' To 20', Add	61.76	
For Elevated Installation >20' To 25', Add	77.20	
For Elevated Installation >25' To 30', Add	108.08	
For Elevated Installation >30' To 35', Add	123.52	
For Elevated Installation >35' To 40', Add	154.40	
For Elevated Installation >40', Add	169.83	
For Work In Restricted Working Space, Add	92.64	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.64	
<b>26 05 33 13-1308 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), STTTB Knockout Hubs (26 05 33 13-0848)</b>		
26 05 33 13-1309 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub .....	134.88	10.96
For Elevated Installation >10' To 15', Add	2.19	
For Elevated Installation >15' To 20', Add	4.38	
For Elevated Installation >20' To 25', Add	5.48	
For Elevated Installation >25' To 30', Add	7.67	
For Elevated Installation >30' To 35', Add	8.77	
For Elevated Installation >35' To 40', Add	10.96	
For Elevated Installation >40', Add	12.06	
For Work In Restricted Working Space, Add	6.58	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.58	
26 05 33 13-1310 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub .....	142.88	13.71
For Elevated Installation >10' To 15', Add	2.74	
For Elevated Installation >15' To 20', Add	5.48	
For Elevated Installation >20' To 25', Add	6.85	
For Elevated Installation >25' To 30', Add	9.59	
For Elevated Installation >30' To 35', Add	10.96	
For Elevated Installation >35' To 40', Add	13.70	
For Elevated Installation >40', Add	15.07	
For Work In Restricted Working Space, Add	8.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 05 33 13-1311 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub .....	154.26	16.44
For Elevated Installation >10' To 15', Add	3.29	
For Elevated Installation >15' To 20', Add	6.58	
For Elevated Installation >20' To 25', Add	8.22	
For Elevated Installation >25' To 30', Add	11.51	
For Elevated Installation >30' To 35', Add	13.16	
For Elevated Installation >35' To 40', Add	16.45	
For Elevated Installation >40', Add	18.09	
For Work In Restricted Working Space, Add	9.87	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.87	
26 05 33 13-1312 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub .....	193.73	20.10
For Elevated Installation >10' To 15', Add	4.02	
For Elevated Installation >15' To 20', Add	8.04	
For Elevated Installation >20' To 25', Add	10.05	
For Elevated Installation >25' To 30', Add	14.07	
For Elevated Installation >30' To 35', Add	16.08	
For Elevated Installation >35' To 40', Add	20.10	
For Elevated Installation >40', Add	22.11	
For Work In Restricted Working Space, Add	12.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.06	
26 05 33 13-1313 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub .....	212.29	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.14	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.99	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.70	
26 05 33 13-1314 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) STTTB Knockout Hub .....	225.57	25.58
For Elevated Installation >10' To 15', Add	5.12	
For Elevated Installation >15' To 20', Add	10.23	
For Elevated Installation >20' To 25', Add	12.79	
For Elevated Installation >25' To 30', Add	17.91	
For Elevated Installation >30' To 35', Add	20.46	
For Elevated Installation >35' To 40', Add	25.58	
For Elevated Installation >40', Add	28.14	
For Work In Restricted Working Space, Add	15.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.35	

**26 05 33 13-1315 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions (26 05 33 13-0848)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1316 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	108.05	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	
26 05 33 13-1317 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	120.14	28.32
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.66	
<i>For Elevated Installation &gt;15' To 20', Add</i>	11.33	
<i>For Elevated Installation &gt;20' To 25', Add</i>	14.16	
<i>For Elevated Installation &gt;25' To 30', Add</i>	19.82	
<i>For Elevated Installation &gt;30' To 35', Add</i>	22.66	
<i>For Elevated Installation &gt;35' To 40', Add</i>	28.32	
<i>For Elevated Installation &gt;40', Add</i>	31.15	
<i>For Work In Restricted Working Space, Add</i>	16.99	
26 05 33 13-1318 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	154.56	34.72
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.94	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.89	
<i>For Elevated Installation &gt;20' To 25', Add</i>	17.36	
<i>For Elevated Installation &gt;25' To 30', Add</i>	24.30	
<i>For Elevated Installation &gt;30' To 35', Add</i>	27.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	34.72	
<i>For Elevated Installation &gt;40', Add</i>	38.19	
<i>For Work In Restricted Working Space, Add</i>	20.83	
26 05 33 13-1319 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	217.40	40.20
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.04	
<i>For Elevated Installation &gt;15' To 20', Add</i>	16.08	
<i>For Elevated Installation &gt;20' To 25', Add</i>	20.10	
<i>For Elevated Installation &gt;25' To 30', Add</i>	28.14	
<i>For Elevated Installation &gt;30' To 35', Add</i>	32.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	40.20	
<i>For Elevated Installation &gt;40', Add</i>	44.21	
<i>For Work In Restricted Working Space, Add</i>	24.12	
26 05 33 13-1320 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	256.61	45.68
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.14	
<i>For Elevated Installation &gt;15' To 20', Add</i>	18.27	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.84	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.98	
<i>For Elevated Installation &gt;30' To 35', Add</i>	36.54	
<i>For Elevated Installation &gt;35' To 40', Add</i>	45.68	
<i>For Elevated Installation &gt;40', Add</i>	50.25	
<i>For Work In Restricted Working Space, Add</i>	27.41	
26 05 33 13-1321 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	320.72	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.12	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.17	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.27	
<i>For Work In Restricted Working Space, Add</i>	30.15	
26 05 33 13-1322 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	424.22	63.04
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	50.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	63.04	
<i>For Elevated Installation &gt;40', Add</i>	69.34	
<i>For Work In Restricted Working Space, Add</i>	37.82	
26 05 33 13-1323 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	537.12	63.04
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	50.43	
<i>For Elevated Installation &gt;35' To 40', Add</i>	63.04	
<i>For Elevated Installation &gt;40', Add</i>	69.34	
<i>For Work In Restricted Working Space, Add</i>	37.82	
26 05 33 13-1324 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	703.55	96.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	19.37	
<i>For Elevated Installation &gt;15' To 20', Add</i>	38.74	
<i>For Elevated Installation &gt;20' To 25', Add</i>	48.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	67.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	77.47	
<i>For Elevated Installation &gt;35' To 40', Add</i>	96.84	
<i>For Elevated Installation &gt;40', Add</i>	106.52	
<i>For Work In Restricted Working Space, Add</i>	58.10	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1325 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	906.84	126.07
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.25	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.68	
For Work In Restricted Working Space, Add	75.65	
26 05 33 13-1326 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	1,634.80	205.55
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
For Work In Restricted Working Space, Add	123.33	
26 05 33 13-1327 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union .....	2,074.98	308.79
For Elevated Installation >10' To 15', Add	61.76	
For Elevated Installation >15' To 20', Add	123.52	
For Elevated Installation >20' To 25', Add	154.40	
For Elevated Installation >25' To 30', Add	216.15	
For Elevated Installation >30' To 35', Add	247.03	
For Elevated Installation >35' To 40', Add	308.79	
For Elevated Installation >40', Add	339.67	
For Work In Restricted Working Space, Add	185.27	
<b>26 05 33 13-1328 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions <small>(26 05 33 13-0848)</small></b>		
26 05 33 13-1329 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	110.15	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.14	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.99	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
26 05 33 13-1330 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	128.16	28.32
For Elevated Installation >10' To 15', Add	5.66	
For Elevated Installation >15' To 20', Add	11.33	
For Elevated Installation >20' To 25', Add	14.16	
For Elevated Installation >25' To 30', Add	19.82	
For Elevated Installation >30' To 35', Add	22.66	
For Elevated Installation >35' To 40', Add	28.32	
For Elevated Installation >40', Add	31.15	
For Work In Restricted Working Space, Add	16.99	
26 05 33 13-1331 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	158.83	34.72
For Elevated Installation >10' To 15', Add	6.94	
For Elevated Installation >15' To 20', Add	13.89	
For Elevated Installation >20' To 25', Add	17.36	
For Elevated Installation >25' To 30', Add	24.30	
For Elevated Installation >30' To 35', Add	27.77	
For Elevated Installation >35' To 40', Add	34.72	
For Elevated Installation >40', Add	38.19	
For Work In Restricted Working Space, Add	20.83	
26 05 33 13-1332 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	225.25	40.20
For Elevated Installation >10' To 15', Add	8.04	
For Elevated Installation >15' To 20', Add	16.08	
For Elevated Installation >20' To 25', Add	20.10	
For Elevated Installation >25' To 30', Add	28.14	
For Elevated Installation >30' To 35', Add	32.16	
For Elevated Installation >35' To 40', Add	40.20	
For Elevated Installation >40', Add	44.21	
For Work In Restricted Working Space, Add	24.12	
26 05 33 13-1333 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	267.51	45.68
For Elevated Installation >10' To 15', Add	9.14	
For Elevated Installation >15' To 20', Add	18.27	
For Elevated Installation >20' To 25', Add	22.84	
For Elevated Installation >25' To 30', Add	31.98	
For Elevated Installation >30' To 35', Add	36.54	
For Elevated Installation >35' To 40', Add	45.68	
For Elevated Installation >40', Add	50.25	
For Work In Restricted Working Space, Add	27.41	
26 05 33 13-1334 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union .....	344.25	50.25
For Elevated Installation >10' To 15', Add	10.05	
For Elevated Installation >15' To 20', Add	20.10	
For Elevated Installation >20' To 25', Add	25.12	
For Elevated Installation >25' To 30', Add	35.17	
For Elevated Installation >30' To 35', Add	40.20	
For Elevated Installation >35' To 40', Add	50.25	
For Elevated Installation >40', Add	55.27	
For Work In Restricted Working Space, Add	30.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1335 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	474.58	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
26 05 33 13-1336 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	588.32	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.43	
For Elevated Installation >35' To 40', Add	63.04	
For Elevated Installation >40', Add	69.34	
For Work In Restricted Working Space, Add	37.82	
26 05 33 13-1337 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	796.12	96.84
For Elevated Installation >10' To 15', Add	19.37	
For Elevated Installation >15' To 20', Add	38.74	
For Elevated Installation >20' To 25', Add	48.42	
For Elevated Installation >25' To 30', Add	67.79	
For Elevated Installation >30' To 35', Add	77.47	
For Elevated Installation >35' To 40', Add	96.84	
For Elevated Installation >40', Add	106.52	
For Work In Restricted Working Space, Add	58.10	
26 05 33 13-1338 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	999.07	126.07
For Elevated Installation >10' To 15', Add	25.22	
For Elevated Installation >15' To 20', Add	50.43	
For Elevated Installation >20' To 25', Add	63.04	
For Elevated Installation >25' To 30', Add	88.25	
For Elevated Installation >30' To 35', Add	100.86	
For Elevated Installation >35' To 40', Add	126.08	
For Elevated Installation >40', Add	138.68	
For Work In Restricted Working Space, Add	75.65	
26 05 33 13-1339 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	1,803.87	205.55
For Elevated Installation >10' To 15', Add	41.11	
For Elevated Installation >15' To 20', Add	82.22	
For Elevated Installation >20' To 25', Add	102.78	
For Elevated Installation >25' To 30', Add	143.89	
For Elevated Installation >30' To 35', Add	164.44	
For Elevated Installation >35' To 40', Add	205.56	
For Elevated Installation >40', Add	226.11	
For Work In Restricted Working Space, Add	123.33	
26 05 33 13-1340 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union.....	2,347.98	308.79
For Elevated Installation >10' To 15', Add	61.76	
For Elevated Installation >15' To 20', Add	123.52	
For Elevated Installation >20' To 25', Add	154.40	
For Elevated Installation >25' To 30', Add	216.15	
For Elevated Installation >30' To 35', Add	247.03	
For Elevated Installation >35' To 40', Add	308.79	
For Elevated Installation >40', Add	339.67	
For Work In Restricted Working Space, Add	185.27	
<b>26 05 33 13-1341 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Reducing Couplings</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1342 EA 3/4" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	56.80	7.30
For Elevated Installation >10' To 15', Add	1.46	
For Elevated Installation >15' To 20', Add	2.92	
For Elevated Installation >20' To 25', Add	3.65	
For Elevated Installation >25' To 30', Add	5.11	
For Elevated Installation >30' To 35', Add	5.84	
For Elevated Installation >35' To 40', Add	7.31	
For Elevated Installation >40', Add	8.04	
For Work In Restricted Working Space, Add	4.38	
26 05 33 13-1343 EA 1" x 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	63.01	9.14
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.66	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.40	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Work In Restricted Working Space, Add	5.48	
26 05 33 13-1344 EA 1" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	70.88	9.14
For Elevated Installation >10' To 15', Add	1.83	
For Elevated Installation >15' To 20', Add	3.66	
For Elevated Installation >20' To 25', Add	4.57	
For Elevated Installation >25' To 30', Add	6.40	
For Elevated Installation >30' To 35', Add	7.31	
For Elevated Installation >35' To 40', Add	9.14	
For Elevated Installation >40', Add	10.05	
For Work In Restricted Working Space, Add	5.48	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1345	EA	1-1/4" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	86.84	10.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.01	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.02	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.04	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.05	
			<i>For Elevated Installation &gt;40', Add</i>	11.06	
			<i>For Work In Restricted Working Space, Add</i>	6.03	
26 05 33	13-1346	EA	1-1/4" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	91.38	10.05
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.01	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.02	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.03	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	7.04	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	8.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	10.05	
			<i>For Elevated Installation &gt;40', Add</i>	11.06	
			<i>For Work In Restricted Working Space, Add</i>	6.03	
26 05 33	13-1347	EA	1-1/2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	80.47	11.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.32	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.88	
			<i>For Elevated Installation &gt;40', Add</i>	13.07	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
26 05 33	13-1348	EA	1-1/2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	90.62	11.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.32	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.88	
			<i>For Elevated Installation &gt;40', Add</i>	13.07	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
26 05 33	13-1349	EA	1-1/2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	136.27	11.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.32	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.88	
			<i>For Elevated Installation &gt;40', Add</i>	13.07	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
26 05 33	13-1350	EA	2" x 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	151.77	13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	
26 05 33	13-1351	EA	2" x 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	147.83	13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	
26 05 33	13-1352	EA	2" x 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	155.15	13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	
26 05 33	13-1353	EA	2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling.....	173.57	13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1354 EA 2-1/2" x 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....	174.10	16.44
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.29	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.58	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.22	
<i>For Elevated Installation &gt;25' To 30', Add</i>	11.51	
<i>For Elevated Installation &gt;30' To 35', Add</i>	13.16	
<i>For Elevated Installation &gt;35' To 40', Add</i>	16.45	
<i>For Elevated Installation &gt;40', Add</i>	18.09	
<i>For Work In Restricted Working Space, Add</i>	9.87	
26 05 33 13-1355 EA 3" x 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....	223.14	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	
26 05 33 13-1356 EA 3-1/2" x 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....	324.23	26.49
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.30	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	13.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	18.55	
<i>For Elevated Installation &gt;30' To 35', Add</i>	21.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	26.50	
<i>For Elevated Installation &gt;40', Add</i>	29.14	
<i>For Work In Restricted Working Space, Add</i>	15.90	
26 05 33 13-1357 EA 4" x 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....	434.47	36.54
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.31	
<i>For Elevated Installation &gt;15' To 20', Add</i>	14.62	
<i>For Elevated Installation &gt;20' To 25', Add</i>	18.28	
<i>For Elevated Installation &gt;25' To 30', Add</i>	25.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	29.24	
<i>For Elevated Installation &gt;35' To 40', Add</i>	36.55	
<i>For Elevated Installation &gt;40', Add</i>	40.21	
<i>For Work In Restricted Working Space, Add</i>	21.93	
26 05 33 13-1358 EA 5" x 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Reducing Coupling .....	546.05	50.25
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.05	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.10	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.13	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.18	
<i>For Elevated Installation &gt;30' To 35', Add</i>	40.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	50.25	
<i>For Elevated Installation &gt;40', Add</i>	55.28	
<i>For Work In Restricted Working Space, Add</i>	30.15	
<b>26 05 33 13-1359 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples</b> <small>(26 05 33 13-0848)</small>		
26 05 33 13-1360 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	39.61	10.96
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.19	
<i>For Elevated Installation &gt;15' To 20', Add</i>	4.38	
<i>For Elevated Installation &gt;20' To 25', Add</i>	5.48	
<i>For Elevated Installation &gt;25' To 30', Add</i>	7.67	
<i>For Elevated Installation &gt;30' To 35', Add</i>	8.77	
<i>For Elevated Installation &gt;35' To 40', Add</i>	10.96	
<i>For Elevated Installation &gt;40', Add</i>	12.06	
<i>For Work In Restricted Working Space, Add</i>	6.58	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.58	
26 05 33 13-1361 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	45.43	13.71
<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
<i>For Elevated Installation &gt;40', Add</i>	15.07	
<i>For Work In Restricted Working Space, Add</i>	8.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 05 33 13-1362 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	53.74	17.35
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.47	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.94	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.15	
<i>For Elevated Installation &gt;30' To 35', Add</i>	13.89	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.36	
<i>For Elevated Installation &gt;40', Add</i>	19.10	
<i>For Work In Restricted Working Space, Add</i>	10.42	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.42	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1363	EA	1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	63.59	20.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.10	
			<i>For Elevated Installation &gt;40', Add</i>	22.11	
			<i>For Work In Restricted Working Space, Add</i>	12.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.06	
26 05 33	13-1364	EA	1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	69.84	22.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
			<i>For Elevated Installation &gt;40', Add</i>	25.12	
			<i>For Work In Restricted Working Space, Add</i>	13.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33	13-1365	EA	1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.72	11.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.32	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.88	
			<i>For Elevated Installation &gt;40', Add</i>	13.07	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33	13-1366	EA	3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.84	13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 05 33	13-1367	EA	1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	56.18	17.35
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.47	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.94	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.89	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.36	
			<i>For Elevated Installation &gt;40', Add</i>	19.10	
			<i>For Work In Restricted Working Space, Add</i>	10.42	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.42	
26 05 33	13-1368	EA	1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.18	20.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.10	
			<i>For Elevated Installation &gt;40', Add</i>	22.11	
			<i>For Work In Restricted Working Space, Add</i>	12.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.06	
26 05 33	13-1369	EA	1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	72.62	22.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.14	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
			<i>For Elevated Installation &gt;40', Add</i>	25.12	
			<i>For Work In Restricted Working Space, Add</i>	13.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33	13-1370	EA	2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	79.31	25.58
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.91	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	20.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	25.58	
			<i>For Elevated Installation &gt;40', Add</i>	28.14	
			<i>For Work In Restricted Working Space, Add</i>	15.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.35	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1371 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	43.88	11.87
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Work In Restricted Working Space, Add	7.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-1372 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	48.01	13.71
For Elevated Installation >10' To 15', Add	2.74	
For Elevated Installation >15' To 20', Add	5.48	
For Elevated Installation >20' To 25', Add	6.85	
For Elevated Installation >25' To 30', Add	9.59	
For Elevated Installation >30' To 35', Add	10.96	
For Elevated Installation >35' To 40', Add	13.70	
For Elevated Installation >40', Add	15.07	
For Work In Restricted Working Space, Add	8.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 05 33 13-1373 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	56.48	17.35
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.94	
For Elevated Installation >20' To 25', Add	8.68	
For Elevated Installation >25' To 30', Add	12.15	
For Elevated Installation >30' To 35', Add	13.88	
For Elevated Installation >35' To 40', Add	17.36	
For Elevated Installation >40', Add	19.09	
For Work In Restricted Working Space, Add	10.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.41	
26 05 33 13-1374 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	66.50	20.10
For Elevated Installation >10' To 15', Add	4.02	
For Elevated Installation >15' To 20', Add	8.04	
For Elevated Installation >20' To 25', Add	10.05	
For Elevated Installation >25' To 30', Add	14.07	
For Elevated Installation >30' To 35', Add	16.08	
For Elevated Installation >35' To 40', Add	20.10	
For Elevated Installation >40', Add	22.10	
For Work In Restricted Working Space, Add	12.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.06	
26 05 33 13-1375 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	72.95	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.13	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.98	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.70	
26 05 33 13-1376 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	80.17	25.58
For Elevated Installation >10' To 15', Add	5.12	
For Elevated Installation >15' To 20', Add	10.23	
For Elevated Installation >20' To 25', Add	12.79	
For Elevated Installation >25' To 30', Add	17.90	
For Elevated Installation >30' To 35', Add	20.46	
For Elevated Installation >35' To 40', Add	25.58	
For Elevated Installation >40', Add	28.13	
For Work In Restricted Working Space, Add	15.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.35	
26 05 33 13-1377 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.17	11.87
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Work In Restricted Working Space, Add	7.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-1378 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	50.31	13.71
For Elevated Installation >10' To 15', Add	2.74	
For Elevated Installation >15' To 20', Add	5.48	
For Elevated Installation >20' To 25', Add	6.85	
For Elevated Installation >25' To 30', Add	9.59	
For Elevated Installation >30' To 35', Add	10.96	
For Elevated Installation >35' To 40', Add	13.70	
For Elevated Installation >40', Add	15.07	
For Work In Restricted Working Space, Add	8.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1379	EA	1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	58.95	17.35
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.47	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.94	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.88	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.36	
			<i>For Elevated Installation &gt;40', Add</i>	19.09	
			<i>For Work In Restricted Working Space, Add</i>	10.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.41	
26 05 33	13-1380	EA	1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	67.91	20.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.10	
			<i>For Elevated Installation &gt;40', Add</i>	22.10	
			<i>For Work In Restricted Working Space, Add</i>	12.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.06	
26 05 33	13-1381	EA	1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	74.50	22.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.13	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.98	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
			<i>For Elevated Installation &gt;40', Add</i>	25.12	
			<i>For Work In Restricted Working Space, Add</i>	13.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33	13-1382	EA	2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	82.88	25.58
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	20.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	25.58	
			<i>For Elevated Installation &gt;40', Add</i>	28.13	
			<i>For Work In Restricted Working Space, Add</i>	15.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.35	
26 05 33	13-1383	EA	2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	112.47	31.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.42	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.74	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.84	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	31.06	
			<i>For Elevated Installation &gt;40', Add</i>	34.16	
			<i>For Work In Restricted Working Space, Add</i>	18.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.63	
26 05 33	13-1384	EA	3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	147.49	42.94
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.59	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.17	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.47	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.05	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	34.35	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	42.94	
			<i>For Elevated Installation &gt;40', Add</i>	47.23	
			<i>For Work In Restricted Working Space, Add</i>	25.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.76	
26 05 33	13-1385	EA	1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	46.34	11.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.31	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.88	
			<i>For Elevated Installation &gt;40', Add</i>	13.06	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33	13-1386	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	50.62	13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1387 EA 1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	59.28	17.35
<i>For Elevated Installation &gt;10' To 15', Add</i>	3.47	
<i>For Elevated Installation &gt;15' To 20', Add</i>	6.94	
<i>For Elevated Installation &gt;20' To 25', Add</i>	8.68	
<i>For Elevated Installation &gt;25' To 30', Add</i>	12.15	
<i>For Elevated Installation &gt;30' To 35', Add</i>	13.88	
<i>For Elevated Installation &gt;35' To 40', Add</i>	17.36	
<i>For Elevated Installation &gt;40', Add</i>	19.09	
<i>For Work In Restricted Working Space, Add</i>	10.41	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.41	
26 05 33 13-1388 EA 1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	69.31	20.10
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.02	
<i>For Elevated Installation &gt;15' To 20', Add</i>	8.04	
<i>For Elevated Installation &gt;20' To 25', Add</i>	10.05	
<i>For Elevated Installation &gt;25' To 30', Add</i>	14.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	16.08	
<i>For Elevated Installation &gt;35' To 40', Add</i>	20.10	
<i>For Elevated Installation &gt;40', Add</i>	22.10	
<i>For Work In Restricted Working Space, Add</i>	12.06	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.06	
26 05 33 13-1389 EA 1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	76.04	22.84
<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
<i>For Elevated Installation &gt;15' To 20', Add</i>	9.13	
<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
<i>For Elevated Installation &gt;25' To 30', Add</i>	15.98	
<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
<i>For Elevated Installation &gt;40', Add</i>	25.12	
<i>For Work In Restricted Working Space, Add</i>	13.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33 13-1390 EA 2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	85.58	25.58
<i>For Elevated Installation &gt;10' To 15', Add</i>	5.12	
<i>For Elevated Installation &gt;15' To 20', Add</i>	10.23	
<i>For Elevated Installation &gt;20' To 25', Add</i>	12.79	
<i>For Elevated Installation &gt;25' To 30', Add</i>	17.90	
<i>For Elevated Installation &gt;30' To 35', Add</i>	20.46	
<i>For Elevated Installation &gt;35' To 40', Add</i>	25.58	
<i>For Elevated Installation &gt;40', Add</i>	28.13	
<i>For Work In Restricted Working Space, Add</i>	15.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.35	
26 05 33 13-1391 EA 2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	114.86	31.06
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.21	
<i>For Elevated Installation &gt;15' To 20', Add</i>	12.42	
<i>For Elevated Installation &gt;20' To 25', Add</i>	15.53	
<i>For Elevated Installation &gt;25' To 30', Add</i>	21.74	
<i>For Elevated Installation &gt;30' To 35', Add</i>	24.84	
<i>For Elevated Installation &gt;35' To 40', Add</i>	31.06	
<i>For Elevated Installation &gt;40', Add</i>	34.16	
<i>For Work In Restricted Working Space, Add</i>	18.63	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.63	
26 05 33 13-1392 EA 3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	152.63	42.94
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.59	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.17	
<i>For Elevated Installation &gt;20' To 25', Add</i>	21.47	
<i>For Elevated Installation &gt;25' To 30', Add</i>	30.05	
<i>For Elevated Installation &gt;30' To 35', Add</i>	34.35	
<i>For Elevated Installation &gt;35' To 40', Add</i>	42.94	
<i>For Elevated Installation &gt;40', Add</i>	47.23	
<i>For Work In Restricted Working Space, Add</i>	25.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.76	
26 05 33 13-1393 EA 3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	180.10	48.42
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.68	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.37	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.21	
<i>For Elevated Installation &gt;25' To 30', Add</i>	33.89	
<i>For Elevated Installation &gt;30' To 35', Add</i>	38.73	
<i>For Elevated Installation &gt;35' To 40', Add</i>	48.42	
<i>For Elevated Installation &gt;40', Add</i>	53.26	
<i>For Work In Restricted Working Space, Add</i>	29.05	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.05	
26 05 33 13-1394 EA 4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	215.15	63.04
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
<i>For Elevated Installation &gt;30' To 35', Add</i>	50.42	
<i>For Elevated Installation &gt;35' To 40', Add</i>	63.03	
<i>For Elevated Installation &gt;40', Add</i>	69.33	
<i>For Work In Restricted Working Space, Add</i>	37.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.82	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1395	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	46.66	11.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.31	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.88	
			<i>For Elevated Installation &gt;40', Add</i>	13.06	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33	13-1396	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	50.96	13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 05 33	13-1397	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	59.65	17.35
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.47	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.94	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.88	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.36	
			<i>For Elevated Installation &gt;40', Add</i>	19.09	
			<i>For Work In Restricted Working Space, Add</i>	10.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.41	
26 05 33	13-1398	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	69.96	20.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.10	
			<i>For Elevated Installation &gt;40', Add</i>	22.10	
			<i>For Work In Restricted Working Space, Add</i>	12.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.06	
26 05 33	13-1399	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	76.72	22.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.13	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.98	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
			<i>For Elevated Installation &gt;40', Add</i>	25.12	
			<i>For Work In Restricted Working Space, Add</i>	13.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33	13-1400	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	87.06	25.58
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	20.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	25.58	
			<i>For Elevated Installation &gt;40', Add</i>	28.13	
			<i>For Work In Restricted Working Space, Add</i>	15.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.35	
26 05 33	13-1401	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	124.38	31.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.42	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.74	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.84	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	31.06	
			<i>For Elevated Installation &gt;40', Add</i>	34.16	
			<i>For Work In Restricted Working Space, Add</i>	18.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.63	
26 05 33	13-1402	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	160.34	42.94
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.59	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.17	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.47	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.05	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	34.35	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	42.94	
			<i>For Elevated Installation &gt;40', Add</i>	47.23	
			<i>For Work In Restricted Working Space, Add</i>	25.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1403 EA 3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	181.74	48.42
For Elevated Installation >10' To 15', Add	9.68	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.89	
For Elevated Installation >30' To 35', Add	38.73	
For Elevated Installation >35' To 40', Add	48.42	
For Elevated Installation >40', Add	53.26	
For Work In Restricted Working Space, Add	29.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	
26 05 33 13-1404 EA 4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	219.55	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.42	
For Elevated Installation >35' To 40', Add	63.03	
For Elevated Installation >40', Add	69.33	
For Work In Restricted Working Space, Add	37.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.82	
26 05 33 13-1405 EA 5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	318.99	86.79
For Elevated Installation >10' To 15', Add	17.36	
For Elevated Installation >15' To 20', Add	34.71	
For Elevated Installation >20' To 25', Add	43.39	
For Elevated Installation >25' To 30', Add	60.75	
For Elevated Installation >30' To 35', Add	69.43	
For Elevated Installation >35' To 40', Add	86.79	
For Elevated Installation >40', Add	95.46	
For Work In Restricted Working Space, Add	52.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.07	
26 05 33 13-1406 EA 1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	47.26	11.87
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Work In Restricted Working Space, Add	7.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-1407 EA 3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	51.56	13.71
For Elevated Installation >10' To 15', Add	2.74	
For Elevated Installation >15' To 20', Add	5.48	
For Elevated Installation >20' To 25', Add	6.85	
For Elevated Installation >25' To 30', Add	9.59	
For Elevated Installation >30' To 35', Add	10.96	
For Elevated Installation >35' To 40', Add	13.70	
For Elevated Installation >40', Add	15.07	
For Work In Restricted Working Space, Add	8.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 05 33 13-1408 EA 1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	60.30	17.35
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.94	
For Elevated Installation >20' To 25', Add	8.68	
For Elevated Installation >25' To 30', Add	12.15	
For Elevated Installation >30' To 35', Add	13.88	
For Elevated Installation >35' To 40', Add	17.36	
For Elevated Installation >40', Add	19.09	
For Work In Restricted Working Space, Add	10.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.41	
26 05 33 13-1409 EA 1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	71.17	20.10
For Elevated Installation >10' To 15', Add	4.02	
For Elevated Installation >15' To 20', Add	8.04	
For Elevated Installation >20' To 25', Add	10.05	
For Elevated Installation >25' To 30', Add	14.07	
For Elevated Installation >30' To 35', Add	16.08	
For Elevated Installation >35' To 40', Add	20.10	
For Elevated Installation >40', Add	22.10	
For Work In Restricted Working Space, Add	12.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.06	
26 05 33 13-1410 EA 1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	78.17	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.13	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.98	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.70	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1411	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	88.53	25.58
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	20.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	25.58	
			<i>For Elevated Installation &gt;40', Add</i>	28.13	
			<i>For Work In Restricted Working Space, Add</i>	15.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.35	
26 05 33	13-1412	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	134.04	31.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.42	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.74	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.84	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	31.06	
			<i>For Elevated Installation &gt;40', Add</i>	34.16	
			<i>For Work In Restricted Working Space, Add</i>	18.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.63	
26 05 33	13-1413	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	170.59	42.94
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.59	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.17	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.47	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.05	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	34.35	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	42.94	
			<i>For Elevated Installation &gt;40', Add</i>	47.23	
			<i>For Work In Restricted Working Space, Add</i>	25.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.76	
26 05 33	13-1414	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	190.97	48.42
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.68	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	19.37	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	24.21	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	33.89	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	38.73	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	48.42	
			<i>For Elevated Installation &gt;40', Add</i>	53.26	
			<i>For Work In Restricted Working Space, Add</i>	29.05	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.05	
26 05 33	13-1415	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	235.11	63.04
			<i>For Elevated Installation &gt;10' To 15', Add</i>	12.61	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	25.21	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	31.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	44.12	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	50.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	63.03	
			<i>For Elevated Installation &gt;40', Add</i>	69.33	
			<i>For Work In Restricted Working Space, Add</i>	37.82	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.82	
26 05 33	13-1416	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	342.26	86.79
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.36	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	43.39	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	60.75	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	69.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	86.79	
			<i>For Elevated Installation &gt;40', Add</i>	95.46	
			<i>For Work In Restricted Working Space, Add</i>	52.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.07	
26 05 33	13-1417	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	48.20	11.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.31	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.88	
			<i>For Elevated Installation &gt;40', Add</i>	13.06	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33	13-1418	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	52.48	13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1419 EA 1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	61.75	17.35
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.94	
For Elevated Installation >20' To 25', Add	8.68	
For Elevated Installation >25' To 30', Add	12.15	
For Elevated Installation >30' To 35', Add	13.88	
For Elevated Installation >35' To 40', Add	17.36	
For Elevated Installation >40', Add	19.09	
For Work In Restricted Working Space, Add	10.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.41	
26 05 33 13-1420 EA 1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	71.48	20.10
For Elevated Installation >10' To 15', Add	4.02	
For Elevated Installation >15' To 20', Add	8.04	
For Elevated Installation >20' To 25', Add	10.05	
For Elevated Installation >25' To 30', Add	14.07	
For Elevated Installation >30' To 35', Add	16.08	
For Elevated Installation >35' To 40', Add	20.10	
For Elevated Installation >40', Add	22.10	
For Work In Restricted Working Space, Add	12.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.06	
26 05 33 13-1421 EA 1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	81.12	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.13	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.98	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.70	
26 05 33 13-1422 EA 2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	95.73	25.58
For Elevated Installation >10' To 15', Add	5.12	
For Elevated Installation >15' To 20', Add	10.23	
For Elevated Installation >20' To 25', Add	12.79	
For Elevated Installation >25' To 30', Add	17.90	
For Elevated Installation >30' To 35', Add	20.46	
For Elevated Installation >35' To 40', Add	25.58	
For Elevated Installation >40', Add	28.13	
For Work In Restricted Working Space, Add	15.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.35	
26 05 33 13-1423 EA 2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	145.93	31.06
For Elevated Installation >10' To 15', Add	6.21	
For Elevated Installation >15' To 20', Add	12.42	
For Elevated Installation >20' To 25', Add	15.53	
For Elevated Installation >25' To 30', Add	21.74	
For Elevated Installation >30' To 35', Add	24.84	
For Elevated Installation >35' To 40', Add	31.06	
For Elevated Installation >40', Add	34.16	
For Work In Restricted Working Space, Add	18.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.63	
26 05 33 13-1424 EA 3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	184.60	42.94
For Elevated Installation >10' To 15', Add	8.59	
For Elevated Installation >15' To 20', Add	17.17	
For Elevated Installation >20' To 25', Add	21.47	
For Elevated Installation >25' To 30', Add	30.05	
For Elevated Installation >30' To 35', Add	34.35	
For Elevated Installation >35' To 40', Add	42.94	
For Elevated Installation >40', Add	47.23	
For Work In Restricted Working Space, Add	25.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.76	
26 05 33 13-1425 EA 3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	214.07	48.42
For Elevated Installation >10' To 15', Add	9.68	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.89	
For Elevated Installation >30' To 35', Add	38.73	
For Elevated Installation >35' To 40', Add	48.42	
For Elevated Installation >40', Add	53.26	
For Work In Restricted Working Space, Add	29.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	
26 05 33 13-1426 EA 4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple.....	258.48	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.42	
For Elevated Installation >35' To 40', Add	63.03	
For Elevated Installation >40', Add	69.33	
For Work In Restricted Working Space, Add	37.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.82	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1427	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	358.20	86.79
			<i>For Elevated Installation &gt;10' To 15', Add</i>	17.36	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	34.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	43.39	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	60.75	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	69.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	86.79	
			<i>For Elevated Installation &gt;40', Add</i>	95.46	
			<i>For Work In Restricted Working Space, Add</i>	52.07	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	52.07	
26 05 33	13-1428	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	49.19	11.87
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.38	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	4.75	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	5.94	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	8.31	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	9.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	11.88	
			<i>For Elevated Installation &gt;40', Add</i>	13.06	
			<i>For Work In Restricted Working Space, Add</i>	7.13	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.13	
26 05 33	13-1429	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	53.45	13.71
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.74	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.48	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.85	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.59	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.96	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.70	
			<i>For Elevated Installation &gt;40', Add</i>	15.07	
			<i>For Work In Restricted Working Space, Add</i>	8.22	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.22	
26 05 33	13-1430	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	63.17	17.35
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.47	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	6.94	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.15	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	13.88	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.36	
			<i>For Elevated Installation &gt;40', Add</i>	19.09	
			<i>For Work In Restricted Working Space, Add</i>	10.41	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.41	
26 05 33	13-1431	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	75.83	20.10
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.02	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.04	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.05	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	14.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	16.08	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	20.10	
			<i>For Elevated Installation &gt;40', Add</i>	22.10	
			<i>For Work In Restricted Working Space, Add</i>	12.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.06	
26 05 33	13-1432	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	88.13	22.84
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.57	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	9.13	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	11.42	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.98	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	18.27	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	22.84	
			<i>For Elevated Installation &gt;40', Add</i>	25.12	
			<i>For Work In Restricted Working Space, Add</i>	13.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.70	
26 05 33	13-1433	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	106.32	25.58
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.12	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.23	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	12.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	17.90	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	20.46	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	25.58	
			<i>For Elevated Installation &gt;40', Add</i>	28.13	
			<i>For Work In Restricted Working Space, Add</i>	15.35	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.35	
26 05 33	13-1434	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple	158.50	31.06
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.21	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.42	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	15.53	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	21.74	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	24.84	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	31.06	
			<i>For Elevated Installation &gt;40', Add</i>	34.16	
			<i>For Work In Restricted Working Space, Add</i>	18.63	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.63	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1435 EA 3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	202.56	42.94
For Elevated Installation >10' To 15', Add	8.59	
For Elevated Installation >15' To 20', Add	17.17	
For Elevated Installation >20' To 25', Add	21.47	
For Elevated Installation >25' To 30', Add	30.05	
For Elevated Installation >30' To 35', Add	34.35	
For Elevated Installation >35' To 40', Add	42.94	
For Elevated Installation >40', Add	47.23	
For Work In Restricted Working Space, Add	25.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.76	
26 05 33 13-1436 EA 3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	238.33	48.42
For Elevated Installation >10' To 15', Add	9.68	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.89	
For Elevated Installation >30' To 35', Add	38.73	
For Elevated Installation >35' To 40', Add	48.42	
For Elevated Installation >40', Add	53.26	
For Work In Restricted Working Space, Add	29.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	
26 05 33 13-1437 EA 4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	299.36	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.42	
For Elevated Installation >35' To 40', Add	63.03	
For Elevated Installation >40', Add	69.33	
For Work In Restricted Working Space, Add	37.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.82	
26 05 33 13-1438 EA 5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	390.03	86.79
For Elevated Installation >10' To 15', Add	17.36	
For Elevated Installation >15' To 20', Add	34.71	
For Elevated Installation >20' To 25', Add	43.39	
For Elevated Installation >25' To 30', Add	60.75	
For Elevated Installation >30' To 35', Add	69.43	
For Elevated Installation >35' To 40', Add	86.79	
For Elevated Installation >40', Add	95.46	
For Work In Restricted Working Space, Add	52.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.07	
26 05 33 13-1439 EA 1 1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	50.21	11.87
For Elevated Installation >10' To 15', Add	2.38	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.88	
For Elevated Installation >40', Add	13.06	
For Work In Restricted Working Space, Add	7.13	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.13	
26 05 33 13-1440 EA 3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	54.58	13.71
For Elevated Installation >10' To 15', Add	2.74	
For Elevated Installation >15' To 20', Add	5.48	
For Elevated Installation >20' To 25', Add	6.85	
For Elevated Installation >25' To 30', Add	9.59	
For Elevated Installation >30' To 35', Add	10.96	
For Elevated Installation >35' To 40', Add	13.70	
For Elevated Installation >40', Add	15.07	
For Work In Restricted Working Space, Add	8.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.22	
26 05 33 13-1441 EA 1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	66.80	17.35
For Elevated Installation >10' To 15', Add	3.47	
For Elevated Installation >15' To 20', Add	6.94	
For Elevated Installation >20' To 25', Add	8.68	
For Elevated Installation >25' To 30', Add	12.15	
For Elevated Installation >30' To 35', Add	13.88	
For Elevated Installation >35' To 40', Add	17.36	
For Elevated Installation >40', Add	19.09	
For Work In Restricted Working Space, Add	10.41	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.41	
26 05 33 13-1442 EA 1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	82.98	20.10
For Elevated Installation >10' To 15', Add	4.02	
For Elevated Installation >15' To 20', Add	8.04	
For Elevated Installation >20' To 25', Add	10.05	
For Elevated Installation >25' To 30', Add	14.07	
For Elevated Installation >30' To 35', Add	16.08	
For Elevated Installation >35' To 40', Add	20.10	
For Elevated Installation >40', Add	22.10	
For Work In Restricted Working Space, Add	12.06	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.06	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1443 EA 1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	96.61	22.84
For Elevated Installation >10' To 15', Add	4.57	
For Elevated Installation >15' To 20', Add	9.13	
For Elevated Installation >20' To 25', Add	11.42	
For Elevated Installation >25' To 30', Add	15.98	
For Elevated Installation >30' To 35', Add	18.27	
For Elevated Installation >35' To 40', Add	22.84	
For Elevated Installation >40', Add	25.12	
For Work In Restricted Working Space, Add	13.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.70	
26 05 33 13-1444 EA 2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	114.82	25.58
For Elevated Installation >10' To 15', Add	5.12	
For Elevated Installation >15' To 20', Add	10.23	
For Elevated Installation >20' To 25', Add	12.79	
For Elevated Installation >25' To 30', Add	17.90	
For Elevated Installation >30' To 35', Add	20.46	
For Elevated Installation >35' To 40', Add	25.58	
For Elevated Installation >40', Add	28.13	
For Work In Restricted Working Space, Add	15.35	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.35	
26 05 33 13-1445 EA 2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	175.27	31.06
For Elevated Installation >10' To 15', Add	6.21	
For Elevated Installation >15' To 20', Add	12.42	
For Elevated Installation >20' To 25', Add	15.53	
For Elevated Installation >25' To 30', Add	21.74	
For Elevated Installation >30' To 35', Add	24.84	
For Elevated Installation >35' To 40', Add	31.06	
For Elevated Installation >40', Add	34.16	
For Work In Restricted Working Space, Add	18.63	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.63	
26 05 33 13-1446 EA 3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	229.47	42.94
For Elevated Installation >10' To 15', Add	8.59	
For Elevated Installation >15' To 20', Add	17.17	
For Elevated Installation >20' To 25', Add	21.47	
For Elevated Installation >25' To 30', Add	30.05	
For Elevated Installation >30' To 35', Add	34.35	
For Elevated Installation >35' To 40', Add	42.94	
For Elevated Installation >40', Add	47.23	
For Work In Restricted Working Space, Add	25.76	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.76	
26 05 33 13-1447 EA 3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	253.22	48.42
For Elevated Installation >10' To 15', Add	9.68	
For Elevated Installation >15' To 20', Add	19.37	
For Elevated Installation >20' To 25', Add	24.21	
For Elevated Installation >25' To 30', Add	33.89	
For Elevated Installation >30' To 35', Add	38.73	
For Elevated Installation >35' To 40', Add	48.42	
For Elevated Installation >40', Add	53.26	
For Work In Restricted Working Space, Add	29.05	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.05	
26 05 33 13-1448 EA 4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	311.90	63.04
For Elevated Installation >10' To 15', Add	12.61	
For Elevated Installation >15' To 20', Add	25.21	
For Elevated Installation >20' To 25', Add	31.52	
For Elevated Installation >25' To 30', Add	44.12	
For Elevated Installation >30' To 35', Add	50.42	
For Elevated Installation >35' To 40', Add	63.03	
For Elevated Installation >40', Add	69.33	
For Work In Restricted Working Space, Add	37.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.82	
26 05 33 13-1449 EA 5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple .....	394.57	86.79
For Elevated Installation >10' To 15', Add	17.36	
For Elevated Installation >15' To 20', Add	34.71	
For Elevated Installation >20' To 25', Add	43.39	
For Elevated Installation >25' To 30', Add	60.75	
For Elevated Installation >30' To 35', Add	69.43	
For Elevated Installation >35' To 40', Add	86.79	
For Elevated Installation >40', Add	95.46	
For Work In Restricted Working Space, Add	52.07	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	52.07	
26 05 33 13-1450 Aluminum Rigid Conduit (ARC) <small>(26 05 33 13-0059)</small>		
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.		
26 05 33 13-1451 Aluminum Rigid Conduit (ARC) With Threaded Coupling <small>(26 05 33 13-1450)</small>		
Note: Includes field bend conduit up to 1".		
26 05 33 13-1452 LF 1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling .....	7.95	2.82
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.05	
For Work In Restricted Working Space, Add	2.11	
26 05 33 13-1453 LF 3/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling .....	8.97	3.10
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.16	
For Work In Restricted Working Space, Add	2.32	
26 05 33 13-1454 LF 1" Aluminum Rigid Conduit (ARC) With Threaded Coupling .....	10.20	3.38
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.27	
For Work In Restricted Working Space, Add	2.53	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1455 LF 1-1/4" Aluminum Rigid Conduit (ARC) With Threaded Coupling ..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	11.44 1.37 2.74	3.66
26 05 33 13-1456 LF 1-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling ..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	12.70 1.48 2.95	3.94
26 05 33 13-1457 LF 2" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	15.06 1.69 3.37	4.50
26 05 33 13-1458 LF 2-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling ..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	20.10 2.11 4.22	5.62
26 05 33 13-1459 LF 3" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	24.80 2.53 5.06	6.74
26 05 33 13-1460 LF 3-1/2" Aluminum Rigid Conduit (ARC) With Threaded Coupling ..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	30.60 3.16 6.32	8.44
26 05 33 13-1461 LF 4" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	37.98 4.01 8.01	10.68
26 05 33 13-1462 LF 5" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	49.87 5.06 10.12	13.50
26 05 33 13-1463 LF 6" Aluminum Rigid Conduit (ARC) With Threaded Coupling..... <i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add For Work In Restricted Working Space, Add</i>	63.41 6.32 12.65	16.86
<b>26 05 33 13-1464 Aluminum 90 Degree Elbows</b> <small>(26 05 33 13-1450)</small>		
26 05 33 13-1465 EA 1" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	46.37 10.96	14.62
26 05 33 13-1466 EA 1-1/4" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	57.08 12.44	16.58
26 05 33 13-1467 EA 1-1/2" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	68.58 14.34	19.12
26 05 33 13-1468 EA 2" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	85.42 16.45	21.92
26 05 33 13-1469 EA 2-1/2" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	118.34 20.03	26.70
26 05 33 13-1470 EA 3" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	166.10 25.93	34.58
26 05 33 13-1471 EA 3-1/2" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	221.23 29.09	38.79
26 05 33 13-1472 EA 4" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	268.89 36.47	48.63
26 05 33 13-1473 EA 5" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	633.78 59.45	79.27
26 05 33 13-1474 EA 6" Aluminum 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	900.66 89.39	119.19
<b>26 05 33 13-1475 Aluminum Bushing Set With Locknut</b> <small>(26 05 33 13-1450)</small>		
26 05 33 13-1476 EA 1/2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.81 4.22 4.22	5.62
26 05 33 13-1477 EA 3/4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.29 5.48 5.48	7.30
26 05 33 13-1478 EA 1" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.97 6.75 6.75	9.00
26 05 33 13-1479 EA 1-1/4" Aluminum Bushing Set With Locknut ..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.84 7.59 7.59	10.12
26 05 33 13-1480 EA 1-1/2" Aluminum Bushing Set With Locknut ..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.61 9.28 9.28	12.36
26 05 33 13-1481 EA 2" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.38 11.17 11.17	14.90
26 05 33 13-1482 EA 2-1/2" Aluminum Bushing Set With Locknut ..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.60 13.28 13.28	17.71
26 05 33 13-1483 EA 3" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.05 15.18 15.18	20.24
26 05 33 13-1484 EA 3-1/2" Aluminum Bushing Set With Locknut ..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.49 16.45 16.45	21.92
26 05 33 13-1485 EA 4" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.44 17.71 17.71	23.62

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1486	EA	5" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.23 23.61 23.61	31.48
26 05 33	13-1487	EA	6" Aluminum Bushing Set With Locknut..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	125.65 35.42 35.42	47.22
<b>26 05 33 13-1488 Schedule 40 Polyvinyl Chloride (PVC) Conduit</b> <small>(26 05 33 13-0059)</small>					
Note: Exposed installation, branch and feeder conduit. Excludes supporting strap, hanger and fastening.					
<b>26 05 33 13-1489 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Glued Couplings</b> <small>(26 05 33 13-1488)</small>					
Note: Includes field bend conduit up to 1".					
26 05 33	13-1490	LF	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	6.01 0.50 0.85	2.01
26 05 33	13-1491	LF	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	6.83 0.60 1.01	2.21
26 05 33	13-1492	LF	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	8.41 0.81 1.33	2.57
26 05 33	13-1493	LF	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	9.98 1.02 1.65	2.94
26 05 33	13-1494	LF	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	11.73 1.21 1.96	3.43
26 05 33	13-1495	LF	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	13.95 1.53 2.43	3.93
26 05 33	13-1496	LF	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	18.26 2.23 3.48	4.67
26 05 33	13-1497	LF	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	21.36 2.64 4.10	5.40
26 05 33	13-1498	LF	3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	26.01 3.31 5.12	6.38
26 05 33	13-1499	LF	4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	30.68 3.74 5.83	7.85
26 05 33	13-1500	LF	5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	43.71 5.41 8.40	11.05
26 05 33	13-1501	LF	6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End ..... <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	58.07 7.16 11.12	14.72
<b>26 05 33 13-1502 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows</b> <small>(26 05 33 13-1488)</small>					
See CSI section 26 05 33 13-2329 for conduit field bending.					
26 05 33	13-1503	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow ..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	25.92 1.57 2.94	9.81
26 05 33	13-1504	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow ..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	28.65 1.76 3.28	10.80
26 05 33	13-1505	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow ..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	33.27 2.18 3.98	12.27
26 05 33	13-1506	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow ..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	43.01 2.90 5.24	15.70
26 05 33	13-1507	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow ..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	54.15 3.72 6.69	19.63
26 05 33	13-1508	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow ..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	68.38 4.83 8.60	24.54
26 05 33	13-1509	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow ..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	86.03 6.79 11.71	29.44
26 05 33	13-1510	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow ..... See CSI section 26 05 33 13-2329 for conduit field bending. <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	106.14 9.36 15.68	34.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1511 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	132.43	41.71
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	12.25	
<i>For Schedule 80, Add</i>	20.28	
26 05 33 13-1512 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	158.91	49.07
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	15.19	
<i>For Schedule 80, Add</i>	24.95	
26 05 33 13-1513 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	217.26	61.34
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	23.65	
<i>For Schedule 80, Add</i>	37.70	
26 05 33 13-1514 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow.....	265.50	73.61
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	29.57	
<i>For Schedule 80, Add</i>	46.92	
<b>26 05 33 13-1515 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows</b> <small>(26 05 33 13-1488)</small>		
See CSI section 26 05 33 13-2329 for conduit field bending.		
26 05 33 13-1516 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	25.92	9.81
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	1.57	
<i>For Schedule 80, Add</i>	2.94	
26 05 33 13-1517 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	28.55	10.80
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	1.74	
<i>For Schedule 80, Add</i>	3.25	
26 05 33 13-1518 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	33.13	12.27
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	2.15	
<i>For Schedule 80, Add</i>	3.93	
26 05 33 13-1519 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	42.61	15.70
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	2.80	
<i>For Schedule 80, Add</i>	5.10	
26 05 33 13-1520 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	53.26	19.63
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	3.50	
<i>For Schedule 80, Add</i>	6.37	
26 05 33 13-1521 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	67.90	24.54
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	4.71	
<i>For Schedule 80, Add</i>	8.43	
26 05 33 13-1522 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	85.13	29.44
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	6.56	
<i>For Schedule 80, Add</i>	11.39	
26 05 33 13-1523 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	105.00	34.35
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	9.07	
<i>For Schedule 80, Add</i>	15.28	
26 05 33 13-1524 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	129.24	41.71
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	11.45	
<i>For Schedule 80, Add</i>	19.16	
26 05 33 13-1525 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	156.17	49.07
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	14.50	
<i>For Schedule 80, Add</i>	23.99	
26 05 33 13-1526 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	213.71	61.34
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	22.76	
<i>For Schedule 80, Add</i>	36.46	
26 05 33 13-1527 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow.....	254.92	73.61
See CSI section 26 05 33 13-2329 for conduit field bending.		
<i>For Schedule 60, Add</i>	26.92	
<i>For Schedule 80, Add</i>	43.21	
<b>26 05 33 13-1528 Schedule 40 Polyvinyl Chloride (PVC) Conduit 18" Large Radius Elbow</b> <small>(26 05 33 13-1488)</small>		
26 05 33 13-1529 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow .....	98.01	34.72
<i>For Schedule 80, Add</i>	16.95	
26 05 33 13-1530 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow .....	114.58	40.20
<i>For Schedule 80, Add</i>	20.01	
26 05 33 13-1531 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow .....	129.82	45.68
<i>For Schedule 80, Add</i>	22.60	
26 05 33 13-1532 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow .....	152.02	50.25
<i>For Schedule 80, Add</i>	28.08	
26 05 33 13-1533 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow .....	198.21	63.04
<i>For Schedule 80, Add</i>	37.86	
26 05 33 13-1534 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow .....	260.88	85.87
<i>For Schedule 80, Add</i>	48.37	
26 05 33 13-1535 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow .....	310.52	96.84
<i>For Schedule 80, Add</i>	60.26	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1536 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 18" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	377.47 69.07	126.07
<b>26 05 33 13-1537 Schedule 40 Polyvinyl Chloride (PVC) Conduit 24" Large Radius Elbow <sup>(26 05 33 13-1488)</sup></b>		
26 05 33 13-1538 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	103.26 18.78	34.72
26 05 33 13-1539 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	127.21 24.43	40.20
26 05 33 13-1540 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	147.90 28.93	45.68
26 05 33 13-1541 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	160.97 31.22	50.25
26 05 33 13-1542 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	225.79 47.51	63.04
26 05 33 13-1543 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	300.99 62.41	85.87
26 05 33 13-1544 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	335.21 68.90	96.84
26 05 33 13-1545 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 24" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	407.36 79.54	126.07
<b>26 05 33 13-1546 Schedule 40 Polyvinyl Chloride (PVC) Conduit 30" Large Radius Elbow <sup>(26 05 33 13-1488)</sup></b>		
26 05 33 13-1547 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	117.41 23.74	34.72
26 05 33 13-1548 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	133.14 26.50	40.20
26 05 33 13-1549 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	151.38 30.14	45.68
26 05 33 13-1550 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	177.85 37.13	50.25
26 05 33 13-1551 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	236.06 51.10	63.04
26 05 33 13-1552 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	309.61 65.43	85.87
26 05 33 13-1553 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	368.08 80.41	96.84
26 05 33 13-1554 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 30" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	436.88 89.87	126.07
<b>26 05 33 13-1555 Schedule 40 Polyvinyl Chloride (PVC) Conduit 36" Large Radius Elbow <sup>(26 05 33 13-1488)</sup></b>		
26 05 33 13-1556 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	120.30 24.75	34.72
26 05 33 13-1557 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	150.68 32.64	40.20
26 05 33 13-1558 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	165.30 35.02	45.68
26 05 33 13-1559 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	178.47 37.34	50.25
26 05 33 13-1560 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	258.69 59.02	63.04
26 05 33 13-1561 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	360.32 83.17	85.87
26 05 33 13-1562 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	414.26 96.57	96.84
26 05 33 13-1563 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	491.57 109.01	126.07
26 05 33 13-1564 EA 5" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	788.75 173.29	205.20
26 05 33 13-1565 EA 6" Schedule 40, Polyvinyl Chloride (PVC), 36" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	1,159.27 251.35	309.21
<b>26 05 33 13-1566 Schedule 40 Polyvinyl Chloride (PVC) Conduit 48" Large Radius Elbow <sup>(26 05 33 13-1488)</sup></b>		
26 05 33 13-1567 EA 1" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	131.39 28.63	34.72
26 05 33 13-1568 EA 1-1/4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	153.66 33.68	40.20
26 05 33 13-1569 EA 1-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	174.23 38.14	45.68
26 05 33 13-1570 EA 2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	209.31 48.14	50.25
26 05 33 13-1571 EA 2-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	280.78 66.76	63.04
26 05 33 13-1572 EA 3" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	396.60 95.87	85.87
26 05 33 13-1573 EA 3-1/2" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	448.95 108.71	96.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1574 EA 4" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	551.77 130.08	126.07
26 05 33 13-1575 EA 5" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	823.97 185.61	205.20
26 05 33 13-1576 EA 6" Schedule 40, Polyvinyl Chloride (PVC), 48" Large Radius Elbow ..... <i>For Schedule 80, Add</i>	1,187.78 261.33	309.21
<b>26 05 33 13-1577 Polyvinyl Chloride (PVC) Conduit Female Adapters (26 05 33 13-1488)</b>		
26 05 33 13-1578 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.82 5.15	6.87
26 05 33 13-1579 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.50 5.89	7.85
26 05 33 13-1580 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.27 6.62	8.83
26 05 33 13-1581 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.18 7.36	9.81
26 05 33 13-1582 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.46 9.20	12.27
26 05 33 13-1583 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.36 11.04	14.72
26 05 33 13-1584 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.76 14.72	19.63
26 05 33 13-1585 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.72 18.40	24.54
26 05 33 13-1586 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.85 23.93	31.90
26 05 33 13-1587 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.61 29.44	39.26
26 05 33 13-1588 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	139.82 36.81	49.07
26 05 33 13-1589 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	174.03 46.01	61.34
<b>26 05 33 13-1590 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug (26 05 33 13-1488)</b>		
26 05 33 13-1591 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.89 4.42	5.89
26 05 33 13-1592 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.73 5.15	6.87
26 05 33 13-1593 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.58 5.89	7.85
26 05 33 13-1594 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.25 6.62	8.83
26 05 33 13-1595 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.72 7.36	9.81
26 05 33 13-1596 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.30 8.47	11.29
26 05 33 13-1597 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45.15 9.57	12.76
26 05 33 13-1598 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.22 11.04	14.72
26 05 33 13-1599 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	60.59 12.88	17.18
26 05 33 13-1600 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.11 14.72	19.63
26 05 33 13-1601 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.89 16.56	22.08
26 05 33 13-1602 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.26 18.40	24.54
<b>26 05 33 13-1603 Polyvinyl Chloride (PVC) Conduit Terminal Adapters (26 05 33 13-1488)</b>		
26 05 33 13-1604 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.41 5.66	12.27
26 05 33 13-1605 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.49 6.79	14.72
26 05 33 13-1606 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.17 7.54	17.18
26 05 33 13-1607 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.37 8.39	19.63
26 05 33 13-1608 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.24 9.20	22.08
26 05 33 13-1609 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.06 11.04	24.54
26 05 33 13-1610 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.16 14.72	31.90
26 05 33 13-1611 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.88 18.40	39.26
26 05 33 13-1612 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	86.77 23.93	49.07
26 05 33 13-1613 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	105.51 29.44	61.34

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1614	EA	5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....	137.63	49.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.81	
26 05 33	13-1615	EA	6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter .....	171.40	61.34
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.01	
<b>26 05 33 13-1616 Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover (26 05 33 13-1498)</b>					
26 05 33	13-1617	EA	1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	54.99	19.63
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.72	
26 05 33	13-1618	EA	3/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	63.58	22.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 05 33	13-1619	EA	1" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	70.61	24.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.40	
26 05 33	13-1620	EA	1-1/4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	86.85	29.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.08	
26 05 33	13-1621	EA	1-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	107.51	36.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.60	
26 05 33	13-1622	EA	2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	137.90	44.16
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.12	
26 05 33	13-1623	EA	2-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	225.64	49.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.81	
26 05 33	13-1624	EA	3" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	241.50	53.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.49	
26 05 33	13-1625	EA	3-1/2" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	263.47	61.34
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.01	
26 05 33	13-1626	EA	4" Polyvinyl Chloride (PVC) Type C, LB, LR Or LL, Two Hub Conduit Body With Cover .....	295.22	71.15
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.37	
<b>26 05 33 13-1627 Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover (26 05 33 13-1498)</b>					
26 05 33	13-1628	EA	1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	78.14	28.11
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.08	
26 05 33	13-1629	EA	3/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	87.18	30.92
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.19	
26 05 33	13-1630	EA	1" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	94.44	33.73
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.30	
26 05 33	13-1631	EA	1-1/4" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	116.62	39.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.52	
26 05 33	13-1632	EA	1-1/2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	141.01	47.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.84	
26 05 33	13-1633	EA	2" Polyvinyl Chloride (PVC) Type T, Three Hub Conduit Body With Cover .....	172.06	56.22
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.17	
<b>26 05 33 13-1634 Polyvinyl Chloride (PVC) Conduit Expansion Joint (26 05 33 13-1488)</b>					
26 05 33	13-1635	EA	1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	111.82	24.54
26 05 33	13-1636	EA	3/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	125.37	29.44
26 05 33	13-1637	EA	1" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	139.68	34.35
26 05 33	13-1638	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	153.24	39.26
26 05 33	13-1639	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	166.49	44.16
26 05 33	13-1640	EA	2" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	182.19	49.07
26 05 33	13-1641	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	221.52	56.43
26 05 33	13-1642	EA	3" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	263.86	63.79
26 05 33	13-1643	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	308.42	73.61
26 05 33	13-1644	EA	4" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	366.24	85.88
26 05 33	13-1645	EA	5" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	480.27	103.05
26 05 33	13-1646	EA	6" Polyvinyl Chloride (PVC) Conduit Expansion Joint .....	630.31	132.50
<b>26 05 33 13-1647 Polyvinyl Chloride (PVC) Conduit End Caps (26 05 33 13-1488)</b>					
26 05 33	13-1648	EA	1/2" Polyvinyl Chloride (PVC) Conduit End Cap .....	14.92	4.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.68	
26 05 33	13-1649	EA	3/4" Polyvinyl Chloride (PVC) Conduit End Cap .....	17.68	5.89
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.42	
26 05 33	13-1650	EA	1" Polyvinyl Chloride (PVC) Conduit End Cap .....	20.38	6.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.15	
26 05 33	13-1651	EA	1-1/4" Polyvinyl Chloride (PVC) Conduit End Cap .....	24.23	7.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.89	
26 05 33	13-1652	EA	1-1/2" Polyvinyl Chloride (PVC) Conduit End Cap .....	28.13	8.83
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.62	
26 05 33	13-1653	EA	2" Polyvinyl Chloride (PVC) Conduit End Cap .....	33.00	9.81
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.36	
26 05 33	13-1654	EA	2-1/2" Polyvinyl Chloride (PVC) Conduit End Cap .....	46.13	11.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.47	
26 05 33	13-1655	EA	3" Polyvinyl Chloride (PVC) Conduit End Cap .....	50.66	12.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.57	
26 05 33	13-1656	EA	3-1/2" Polyvinyl Chloride (PVC) Conduit End Cap .....	64.00	14.23
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.67	
26 05 33	13-1657	EA	4" Polyvinyl Chloride (PVC) Conduit End Cap .....	76.72	15.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.41	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1658 EA 5" Polyvinyl Chloride (PVC) Conduit End Cap ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	89.05 12.88	17.18
26 05 33 13-1659 EA 6" Polyvinyl Chloride (PVC) Conduit End Cap ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	111.90 14.72	19.63
<b>26 05 33 13-1660 Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-1488)</b>		
26 05 33 13-1661 EA 2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways EZLB200)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	147.87 33.12	44.16
26 05 33 13-1662 EA 3/4" To 1-1/4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB121)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	149.26 22.08	29.44
26 05 33 13-1663 EA 1-1/2" To 2-1/2" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB251)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	354.61 36.81	49.07
26 05 33 13-1664 EA 3" To 4" Polyvinyl Chloride (PVC) Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB401)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	682.53 53.37	71.15
<b>26 05 33 13-1665 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-0059)</b> Note: Exposed installation. Excludes supporting strap, hanger and fastening.		
<b>26 05 33 13-1666 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit (26 05 33 13-1665)</b>		
26 05 33 13-1667 LF 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	10.91	2.01
26 05 33 13-1668 LF 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	12.15	2.21
26 05 33 13-1669 LF 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	13.46	2.55
26 05 33 13-1670 LF 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	14.76	2.94
26 05 33 13-1671 LF 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	16.59	3.43
26 05 33 13-1672 LF 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	18.03	3.93
26 05 33 13-1673 LF 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	21.50	4.67
26 05 33 13-1674 LF 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	25.31	5.40
26 05 33 13-1675 LF 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	29.24	6.38
26 05 33 13-1676 LF 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	34.39	7.85
26 05 33 13-1677 LF 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	46.04	11.05
26 05 33 13-1678 LF 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit .....	59.86	14.72
<b>26 05 33 13-1679 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows (26 05 33 13-1665)</b>		
26 05 33 13-1680 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	133.49 9.40 13.35 17.30	9.81
26 05 33 13-1681 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	148.97 10.50 14.90 19.30	10.80
26 05 33 13-1682 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	153.89 10.78 15.39 20.00	12.27
26 05 33 13-1683 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	163.68 11.29 16.37 21.44	15.70
26 05 33 13-1684 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	174.73 11.88 17.47 23.07	19.63
26 05 33 13-1685 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	204.33 13.79 20.43 27.07	24.54
26 05 33 13-1686 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	244.75 16.52 24.48 32.43	29.44
26 05 33 13-1687 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	291.25 19.70 29.13 38.55	34.35
26 05 33 13-1688 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	335.32 22.54 33.53 44.52	41.71

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-1689	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	379.40 25.39 37.94 50.49	49.07
26 05 33	13-1690	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	474.24 31.73 47.42 63.11	61.34
26 05 33	13-1691	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	585.14 39.28 58.51 77.74	73.61
<b>26 05 33 13-1692 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1665)</small></b>					
26 05 33	13-1693	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	113.88 7.93 11.39 14.85	9.81
26 05 33	13-1694	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	127.01 8.85 12.70 16.55	10.80
26 05 33	13-1695	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	131.71 9.11 13.17 17.23	12.27
26 05 33	13-1696	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	141.29 9.62 14.13 18.64	15.70
26 05 33	13-1697	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	152.11 10.18 15.21 20.24	19.63
26 05 33	13-1698	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	178.59 11.86 17.86 23.86	24.54
26 05 33	13-1699	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	213.95 14.21 21.40 28.58	29.44
26 05 33	13-1700	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	254.28 16.92 25.43 33.93	34.35
26 05 33	13-1701	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	293.73 19.42 29.37 39.32	41.71
26 05 33	13-1702	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	333.19 21.92 33.32 44.72	49.07
26 05 33	13-1703	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	416.48 27.40 41.65 55.89	61.34
26 05 33	13-1704	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 45 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	512.94 33.87 51.29 68.72	73.61
<b>26 05 33 13-1705 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbows, 12" Large Radius Elbows <small>(26 05 33 13-1665)</small></b>					
26 05 33	13-1706	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	105.97 7.40 10.60 13.80	8.83
26 05 33	13-1707	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	118.22 8.26 11.82 15.39	9.71
26 05 33	13-1708	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows ..... <i>For 24" Radius, Add</i> <i>For 36" Radius, Add</i> <i>For 48" Radius, Add</i>	122.48 8.50 12.25 16.00	11.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1709 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius		
Elbows .....	131.13	14.13
<i>For 24" Radius, Add</i>	8.95	
<i>For 36" Radius, Add</i>	13.11	
<i>For 48" Radius, Add</i>	17.27	
26 05 33 13-1710 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius		
Elbows .....	140.92	17.67
<i>For 24" Radius, Add</i>	9.47	
<i>For 36" Radius, Add</i>	14.09	
<i>For 48" Radius, Add</i>	18.72	
26 05 33 13-1711 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	165.31	22.08
<i>For 24" Radius, Add</i>	11.02	
<i>For 36" Radius, Add</i>	16.53	
<i>For 48" Radius, Add</i>	22.04	
26 05 33 13-1712 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius		
Elbows .....	198.03	26.50
<i>For 24" Radius, Add</i>	13.20	
<i>For 36" Radius, Add</i>	19.80	
<i>For 48" Radius, Add</i>	26.41	
26 05 33 13-1713 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	235.42	30.92
<i>For 24" Radius, Add</i>	15.72	
<i>For 36" Radius, Add</i>	23.54	
<i>For 48" Radius, Add</i>	31.36	
26 05 33 13-1714 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius		
Elbows .....	271.76	37.54
<i>For 24" Radius, Add</i>	18.04	
<i>For 36" Radius, Add</i>	27.18	
<i>For 48" Radius, Add</i>	36.32	
26 05 33 13-1715 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	308.08	44.16
<i>For 24" Radius, Add</i>	20.35	
<i>For 36" Radius, Add</i>	30.81	
<i>For 48" Radius, Add</i>	41.27	
26 05 33 13-1716 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	385.11	55.21
<i>For 24" Radius, Add</i>	25.43	
<i>For 36" Radius, Add</i>	38.51	
<i>For 48" Radius, Add</i>	51.59	
26 05 33 13-1717 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 30 Degree Elbow, 12" Large Radius Elbows	474.48	66.25
<i>For 24" Radius, Add</i>	31.45	
<i>For 36" Radius, Add</i>	47.45	
<i>For 48" Radius, Add</i>	63.45	
<b>26 05 33 13-1718 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbows, 12" Large Radius Elbows</b>		
<small>(26 05 33 13-1665)</small>		
26 05 33 13-1719 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius		
Elbows .....	100.53	8.83
<i>For 24" Radius, Add</i>	6.99	
<i>For 36" Radius, Add</i>	10.05	
<i>For 48" Radius, Add</i>	13.12	
26 05 33 13-1720 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius		
Elbows .....	112.13	9.71
<i>For 24" Radius, Add</i>	7.80	
<i>For 36" Radius, Add</i>	11.21	
<i>For 48" Radius, Add</i>	14.62	
26 05 33 13-1721 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius		
Elbows .....	116.32	11.05
<i>For 24" Radius, Add</i>	8.03	
<i>For 36" Radius, Add</i>	11.63	
<i>For 48" Radius, Add</i>	15.23	
26 05 33 13-1722 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius		
Elbows .....	124.91	14.13
<i>For 24" Radius, Add</i>	8.49	
<i>For 36" Radius, Add</i>	12.49	
<i>For 48" Radius, Add</i>	16.50	
26 05 33 13-1723 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius		
Elbows .....	134.63	17.67
<i>For 24" Radius, Add</i>	8.99	
<i>For 36" Radius, Add</i>	13.46	
<i>For 48" Radius, Add</i>	17.93	
26 05 33 13-1724 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius		
Elbows .....	158.16	22.08
<i>For 24" Radius, Add</i>	10.48	
<i>For 36" Radius, Add</i>	15.82	
<i>For 48" Radius, Add</i>	21.15	
26 05 33 13-1725 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius		
Elbows .....	189.47	26.50
<i>For 24" Radius, Add</i>	12.55	
<i>For 36" Radius, Add</i>	18.95	
<i>For 48" Radius, Add</i>	25.34	
26 05 33 13-1726 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius		
Elbows .....	225.16	30.92
<i>For 24" Radius, Add</i>	14.95	
<i>For 36" Radius, Add</i>	22.52	
<i>For 48" Radius, Add</i>	30.08	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1727	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	260.21	37.54
		For 24" Radius, Add	17.17	
		For 36" Radius, Add	26.02	
		For 48" Radius, Add	34.87	
26 05 33 13-1728	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	295.24	44.16
		For 24" Radius, Add	19.38	
		For 36" Radius, Add	29.52	
		For 48" Radius, Add	39.67	
26 05 33 13-1729	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	369.06	55.21
		For 24" Radius, Add	24.23	
		For 36" Radius, Add	36.91	
		For 48" Radius, Add	49.58	
26 05 33 13-1730	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 22-1/2 Degree Elbow, 12" Large Radius Elbows.....	454.42	66.25
		For 24" Radius, Add	29.94	
		For 36" Radius, Add	45.44	
		For 48" Radius, Add	60.94	
<b>26 05 33 13-1731</b>		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings</b> <small>(26 05 33 13-1665)</small>		
26 05 33 13-1732	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	62.29	6.87
26 05 33 13-1733	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	69.90	7.85
26 05 33 13-1734	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	72.87	8.83
26 05 33 13-1735	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	75.75	9.81
26 05 33 13-1736	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	82.91	12.27
26 05 33 13-1737	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	99.01	14.72
26 05 33 13-1738	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	123.94	19.63
26 05 33 13-1739	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	151.19	24.54
26 05 33 13-1740	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	180.83	31.90
26 05 33 13-1741	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	210.45	39.26
26 05 33 13-1742	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	263.07	49.07
26 05 33 13-1743	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling.....	328.77	61.34
<b>26 05 33 13-1744</b>		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings</b> <small>(26 05 33 13-1665)</small>		
26 05 33 13-1745	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	42.63	6.87
26 05 33 13-1746	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	47.91	7.85
26 05 33 13-1747	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	50.66	8.83
26 05 33 13-1748	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	53.42	9.81
26 05 33 13-1749	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	59.85	12.27
26 05 33 13-1750	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	66.15	14.72
26 05 33 13-1751	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	84.28	19.63
26 05 33 13-1752	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	103.61	24.54
26 05 33 13-1753	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	127.31	31.90
26 05 33 13-1754	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	150.98	39.26
26 05 33 13-1755	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	188.79	49.07
26 05 33 13-1756	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling.....	235.92	61.34
<b>26 05 33 13-1757</b>		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings</b> <small>(26 05 33 13-1665)</small>		
26 05 33 13-1758	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	48.82	5.65
26 05 33 13-1759	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	54.80	7.85
26 05 33 13-1760	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	57.63	8.83
26 05 33 13-1761	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	60.31	9.81
26 05 33 13-1762	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	67.25	12.27
26 05 33 13-1763	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	80.36	14.72
26 05 33 13-1764	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	101.31	19.63
26 05 33 13-1765	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	124.02	24.54
26 05 33 13-1766	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	150.26	31.90
26 05 33 13-1767	EA	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	176.48	39.26
26 05 33 13-1768	EA	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	220.58	49.07
26 05 33 13-1769	EA	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling.....	275.76	61.34
<b>26 05 33 13-1770</b>		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints</b> <small>(26 05 33 13-1665)</small>		
26 05 33 13-1771	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	96.21	24.54
26 05 33 13-1772	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	112.29	29.44
26 05 33 13-1773	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	124.99	34.35
26 05 33 13-1774	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	137.50	39.26
26 05 33 13-1775	EA	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	150.67	44.16
26 05 33 13-1776	EA	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	170.61	49.07
26 05 33 13-1777	EA	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	198.60	56.43
26 05 33 13-1778	EA	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	228.50	63.79
26 05 33 13-1779	EA	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	261.66	73.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1780 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	300.95	85.88
26 05 33 13-1781 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	353.19	98.14
26 05 33 13-1782 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint.....	410.82	110.41
<b>26 05 33 13-1783 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints</b> <small>(26 05 33 13-1665)</small>		
26 05 33 13-1784 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	110.37	24.54
26 05 33 13-1785 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	128.16	29.44
26 05 33 13-1786 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	140.95	34.35
26 05 33 13-1787 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	153.63	39.26
26 05 33 13-1788 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	166.93	44.16
26 05 33 13-1789 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	189.18	49.07
26 05 33 13-1790 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	220.88	56.43
26 05 33 13-1791 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	255.24	63.79
26 05 33 13-1792 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	291.76	73.61
26 05 33 13-1793 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	334.40	85.88
26 05 33 13-1794 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	395.12	98.14
26 05 33 13-1795 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint.....	463.23	110.41
<b>26 05 33 13-1796 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters</b> <small>(26 05 33 13-1665)</small>		
26 05 33 13-1797 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	133.76	6.87
26 05 33 13-1798 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	149.14	7.85
26 05 33 13-1799 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	155.57	8.83
26 05 33 13-1800 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	162.18	9.81
26 05 33 13-1801 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	170.45	12.27
26 05 33 13-1802 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	189.88	14.72
26 05 33 13-1803 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	232.79	19.63
26 05 33 13-1804 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	281.68	24.54
26 05 33 13-1805 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	327.65	31.90
26 05 33 13-1806 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	373.59	39.26
26 05 33 13-1807 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	467.11	49.07
26 05 33 13-1808 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter.....	581.20	61.34
<b>26 05 33 13-1809 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints</b> <small>(26 05 33 13-1665)</small>		
26 05 33 13-1810 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	134.99	24.54
26 05 33 13-1811 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	155.46	29.44
26 05 33 13-1812 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	186.99	34.35
26 05 33 13-1813 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	234.46	39.26
26 05 33 13-1814 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	297.29	44.16
26 05 33 13-1815 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	399.65	49.07
26 05 33 13-1816 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	576.91	56.43
26 05 33 13-1817 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	699.90	63.79
26 05 33 13-1818 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	848.65	73.61
26 05 33 13-1819 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,003.52	85.88
26 05 33 13-1820 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,182.37	98.14
26 05 33 13-1821 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint.....	1,866.77	110.41
<b>26 05 33 13-1822 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover</b> <small>(26 05 33 13-1665)</small>		
26 05 33 13-1823 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	114.27	19.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.72	
26 05 33 13-1824 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	132.96	22.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.56	
26 05 33 13-1825 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	179.88	24.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.40	
26 05 33 13-1826 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	220.04	29.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.08	
26 05 33 13-1827 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	280.28	36.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.60	
26 05 33 13-1828 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	389.33	44.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.12	
26 05 33 13-1829 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	651.80	51.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.65	
26 05 33 13-1830 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover.....	844.54	58.89
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44.17	
26 05 33 13-1831 EA 3-1/2" Type LB, LR Or LL, Two Hub Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Body And Cover.....	1,017.24	68.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.53	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1832 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,189.96 58.89	78.51
26 05 33 13-1833 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,406.25 66.25	88.33
26 05 33 13-1834 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Type LB, LR Or LL, Two Hub Conduit Body And Cover <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,596.40 73.61	98.14
<b>26 05 33 13-1835 Explosion Proof Conduit Fittings</b> <small>(26 05 33 13-0059)</small> Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT) and Intermediate Metal Conduit (IMC) conduit.		
<b>26 05 33 13-1836 Explosion Proof Malleable Iron Conduit Unions</b> <small>(26 05 33 13-1835)</small>		
26 05 33 13-1837 EA 1/2" Explosion Proof Malleable Iron Conduit Union	52.27	11.71
26 05 33 13-1838 EA 3/4" Explosion Proof Malleable Iron Conduit Union	64.02	12.94
26 05 33 13-1839 EA 1" Explosion Proof Malleable Iron Conduit Union	100.61	17.25
26 05 33 13-1840 EA 1-1/4" Explosion Proof Malleable Iron Conduit Union	132.11	19.10
26 05 33 13-1841 EA 1-1/2" Explosion Proof Malleable Iron Conduit Union	166.06	23.41
26 05 33 13-1842 EA 2" Explosion Proof Malleable Iron Conduit Union	206.29	27.11
26 05 33 13-1843 EA 2-1/2" Explosion Proof Malleable Iron Conduit Union	313.23	38.77
26 05 33 13-1844 EA 3" Explosion Proof Malleable Iron Conduit Union	397.22	46.15
26 05 33 13-1845 EA 3-1/2" Explosion Proof Malleable Iron Conduit Union	660.60	55.38
26 05 33 13-1846 EA 4" Explosion Proof Malleable Iron Conduit Union	704.15	70.75
<b>26 05 33 13-1847 Explosion Proof Malleable Iron Conduit Bodies</b> <small>(26 05 33 13-1835)</small>		
26 05 33 13-1848 EA 1/2" Explosion Proof Malleable Iron Two Hub Conduit Body	183.83	36.96
26 05 33 13-1849 EA 3/4" Explosion Proof Malleable Iron Two Hub Conduit Body	207.28	41.90
26 05 33 13-1850 EA 1" Explosion Proof Malleable Iron Two Hub Conduit Body	241.93	46.21
26 05 33 13-1851 EA 1/2" Explosion Proof Malleable Iron Three Hub Conduit Body	208.67	46.21
26 05 33 13-1852 EA 3/4" Explosion Proof Malleable Iron Three Hub Conduit Body	248.72	55.45
26 05 33 13-1853 EA 1" Explosion Proof Malleable Iron Three Hub Conduit Body	293.74	63.45
<b>26 05 33 13-1854 Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical</b> <small>(26 05 33 13-1835)</small> Note: Includes sealing gasket and lock nut.		
26 05 33 13-1855 EA 1/2" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	152.10 23.10	30.80
26 05 33 13-1856 EA 3/4" x 1" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.26 25.88	34.50
26 05 33 13-1857 EA 1" x 1-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.55 28.19	37.58
26 05 33 13-1858 EA 1-1/4" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.63 34.65	46.21
26 05 33 13-1859 EA 1-1/2" x 2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	277.81 40.66	54.21
26 05 33 13-1860 EA 2" x 2-1/2" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	354.86 46.21	61.61
26 05 33 13-1861 EA 2-1/2" x 3" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	506.54 69.22	92.29
26 05 33 13-1862 EA 3" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	639.96 86.75	115.67
26 05 33 13-1863 EA 3-1/2" x 4" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	894.10 95.53	127.36
26 05 33 13-1864 EA 4" x 5" Explosion Proof Malleable Iron Conduit Sealing Fitting, Horizontal/Vertical <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,146.67 103.83	138.44
<b>26 05 33 13-1865 Explosion Proof Flexible Conduit Couplings</b> <small>(26 05 33 13-1835)</small>		
26 05 33 13-1866 EA 1/2" x 12" Explosion Proof Flexible Conduit Coupling	389.31	14.17
26 05 33 13-1867 EA 3/4" x 15" Explosion Proof Flexible Conduit Coupling	508.70	16.02
<b>26 05 33 13-1868 Conduit Installed Below Grade</b> <small>(26 05 33 13-0058)</small> Note: By direct burial in trench or in concrete slabs or duct banks. Includes detectable warning tape for underground conduits. Excludes trenching, backfilling and concrete.		
<b>26 05 33 13-1869 Schedule 40 Polyvinyl Chloride (PVC) Conduit, Direct Burial</b> <small>(26 05 33 13-1868)</small>		
<b>26 05 33 13-1870 Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial</b> <small>(26 05 33 13-1869)</small> Note: Includes field bend conduit up to 1".		
26 05 33 13-1871 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	4.97 0.44 0.74	
26 05 33 13-1872 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial <i>For Schedule 60, Add</i> <i>For Schedule 80, Add</i>	5.61 0.54 0.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1873 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	6.57	
<i>For Schedule 60, Add</i>	0.72	
<i>For Schedule 80, Add</i>	1.15	
26 05 33 13-1874 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	7.53	
<i>For Schedule 60, Add</i>	0.90	
<i>For Schedule 80, Add</i>	1.41	
26 05 33 13-1875 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	8.36	
<i>For Schedule 60, Add</i>	1.05	
<i>For Schedule 80, Add</i>	1.62	
26 05 33 13-1876 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	9.66	
<i>For Schedule 60, Add</i>	1.31	
<i>For Schedule 80, Add</i>	2.00	
26 05 33 13-1877 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	12.43	
<i>For Schedule 60, Add</i>	1.94	
<i>For Schedule 80, Add</i>	2.89	
26 05 33 13-1878 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	14.00	
<i>For Schedule 60, Add</i>	2.27	
<i>For Schedule 80, Add</i>	3.37	
26 05 33 13-1879 LF 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	16.50	
<i>For Schedule 60, Add</i>	2.84	
<i>For Schedule 80, Add</i>	4.17	
26 05 33 13-1880 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	17.80	
<i>For Schedule 60, Add</i>	3.10	
<i>For Schedule 80, Add</i>	4.54	
26 05 33 13-1881 LF 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	23.16	
<i>For Schedule 60, Add</i>	4.38	
<i>For Schedule 80, Add</i>	6.34	
26 05 33 13-1882 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit With Coupled End, Direct Burial.....	28.63	
<i>For Schedule 60, Add</i>	5.69	
<i>For Schedule 80, Add</i>	8.18	

**26 05 33 13-1883 Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbows, Direct Burial**

(26 05 33 13-1869)  
See CSI section 26 05 33 13-2329 for conduit field bending.

26 05 33 13-1884 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	32.05	
<i>For Schedule 60, Add</i>	1.88	
<i>For Schedule 80, Add</i>	3.55	
26 05 33 13-1885 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	38.46	
<i>For Schedule 60, Add</i>	2.26	
<i>For Schedule 80, Add</i>	4.26	
26 05 33 13-1886 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	45.54	
<i>For Schedule 60, Add</i>	2.80	
<i>For Schedule 80, Add</i>	5.20	
26 05 33 13-1887 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	52.82	
<i>For Schedule 60, Add</i>	3.39	
<i>For Schedule 80, Add</i>	6.22	
26 05 33 13-1888 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	60.29	
<i>For Schedule 60, Add</i>	4.03	
<i>For Schedule 80, Add</i>	7.30	
26 05 33 13-1889 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	68.38	
<i>For Schedule 60, Add</i>	4.83	
<i>For Schedule 80, Add</i>	8.60	
26 05 33 13-1890 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	79.90	
<i>For Schedule 60, Add</i>	6.48	
<i>For Schedule 80, Add</i>	11.10	
26 05 33 13-1891 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	93.87	
<i>For Schedule 60, Add</i>	8.75	
<i>For Schedule 80, Add</i>	14.45	
26 05 33 13-1892 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	114.03	
<i>For Schedule 60, Add</i>	11.33	
<i>For Schedule 80, Add</i>	18.44	
26 05 33 13-1893 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	134.36	
<i>For Schedule 60, Add</i>	13.96	
<i>For Schedule 80, Add</i>	22.49	
26 05 33 13-1894 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	174.32	
<i>For Schedule 60, Add</i>	21.50	
<i>For Schedule 80, Add</i>	33.41	
26 05 33 13-1895 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 90 Degree Elbow, Direct Burial .....	204.16	
<i>For Schedule 60, Add</i>	26.50	
<i>For Schedule 80, Add</i>	40.78	

**26 05 33 13-1896 Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbows, Direct Burial**

(26 05 33 13-1869)  
See CSI section 26 05 33 13-2329 for conduit field bending.

26 05 33 13-1897 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	32.05	
<i>For Schedule 60, Add</i>	1.88	
<i>For Schedule 80, Add</i>	3.55	
26 05 33 13-1898 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	38.36	
<i>For Schedule 60, Add</i>	2.23	
<i>For Schedule 80, Add</i>	4.23	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1899 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	45.40	
For Schedule 60, Add	2.76	
For Schedule 80, Add	5.16	
26 05 33 13-1900 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	52.42	
For Schedule 60, Add	3.29	
For Schedule 80, Add	6.08	
26 05 33 13-1901 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	59.40	
For Schedule 60, Add	3.81	
For Schedule 80, Add	6.99	
26 05 33 13-1902 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	67.90	
For Schedule 60, Add	4.71	
For Schedule 80, Add	8.43	
26 05 33 13-1903 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	79.00	
For Schedule 60, Add	6.25	
For Schedule 80, Add	10.78	
26 05 33 13-1904 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	92.73	
For Schedule 60, Add	8.46	
For Schedule 80, Add	14.05	
26 05 33 13-1905 EA 3-1/2" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	110.84	
For Schedule 60, Add	10.53	
For Schedule 80, Add	17.32	
26 05 33 13-1906 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	131.62	
For Schedule 60, Add	13.28	
For Schedule 80, Add	21.53	
26 05 33 13-1907 EA 5" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	170.77	
For Schedule 60, Add	20.61	
For Schedule 80, Add	32.17	
26 05 33 13-1908 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Conduit 45 Degree Elbow, Direct Burial .....	193.58	
For Schedule 60, Add	23.86	
For Schedule 80, Add	37.08	
<b>26 05 33 13-1909 Polyvinyl Chloride (PVC) Conduit Female Adapters, Direct Burial</b> <small>(26 05 33 13-1899)</small>		
26 05 33 13-1910 EA 1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	17.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.15	
26 05 33 13-1911 EA 3/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	20.50	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.89	
26 05 33 13-1912 EA 1" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	23.27	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.62	
26 05 33 13-1913 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	26.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.36	
26 05 33 13-1914 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	28.78	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.10	
26 05 33 13-1915 EA 2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	32.00	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.83	
26 05 33 13-1916 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	37.82	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.94	
26 05 33 13-1917 EA 3" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	43.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.04	
26 05 33 13-1918 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	51.04	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.88	
26 05 33 13-1919 EA 4" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	57.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.72	
26 05 33 13-1920 EA 5" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	72.34	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.56	
26 05 33 13-1921 EA 6" Polyvinyl Chloride (PVC) Conduit Female Adapter, Direct Burial .....	82.02	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.40	
<b>26 05 33 13-1922 Polyvinyl Chloride (PVC) Conduit Bell Ends And Plug, Direct Burial</b> <small>(26 05 33 13-1899)</small>		
26 05 33 13-1923 EA 1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	19.89	
26 05 33 13-1924 EA 3/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	22.73	
26 05 33 13-1925 EA 1" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	25.58	
26 05 33 13-1926 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	32.71	
26 05 33 13-1927 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	36.17	
26 05 33 13-1928 EA 2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	40.30	
26 05 33 13-1929 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	45.15	
26 05 33 13-1930 EA 3" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	51.22	
26 05 33 13-1931 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	60.59	
26 05 33 13-1932 EA 4" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	67.11	
26 05 33 13-1933 EA 5" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	83.89	
26 05 33 13-1934 EA 6" Polyvinyl Chloride (PVC) Conduit Bell End And Plug, Direct Burial .....	94.26	
<b>26 05 33 13-1935 Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial</b> <small>(26 05 33 13-1899)</small>		
26 05 33 13-1936 EA 1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial .....	17.71	
26 05 33 13-1937 EA 3/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial .....	20.50	
26 05 33 13-1938 EA 1" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial .....	23.13	
26 05 33 13-1939 EA 1-1/4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapters, Direct Burial .....	25.93	
26 05 33 13-1940 EA 1-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	28.56	
26 05 33 13-1941 EA 2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	31.70	
26 05 33 13-1942 EA 2-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	37.22	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1943 EA 3" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	42.34	
26 05 33 13-1944 EA 3-1/2" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	49.96	
26 05 33 13-1945 EA 4" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	56.44	
26 05 33 13-1946 EA 5" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	70.15	
26 05 33 13-1947 EA 6" Polyvinyl Chloride (PVC) Conduit Male Terminal Adapter, Direct Burial .....	79.39	
 <b>26 05 33 13-1948 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial</b> <small>(26 05 33 13-1948)</small>		
<i>Note: 40 mil Polyvinyl Chloride (PVC) coated, 2 mil urethane lined (Ocal Blue, Crouse-Hinds, Appleton or O-Z/Gedney).</i>		
 <b>26 05 33 13-1949 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial</b> <small>(26 05 33 13-1949)</small>		
<i>Note: Includes field bending for conduit up to 1".</i>		
26 05 33 13-1950 LF 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	13.38	2.96
<i>For &gt;250 To 500, Deduct</i>	-0.48	
<i>For &gt;500 To 1,000, Deduct</i>	-0.81	
<i>For &gt;1,000, Deduct</i>	-1.14	
26 05 33 13-1951 LF 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	14.99	3.66
<i>For &gt;250 To 500, Deduct</i>	-0.54	
<i>For &gt;500 To 1,000, Deduct</i>	-0.91	
<i>For &gt;1,000, Deduct</i>	-1.29	
26 05 33 13-1952 LF 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	18.32	4.08
<i>For &gt;250 To 500, Deduct</i>	-0.67	
<i>For &gt;500 To 1,000, Deduct</i>	-1.13	
<i>For &gt;1,000, Deduct</i>	-1.59	
26 05 33 13-1953 LF 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	21.99	5.48
<i>For &gt;250 To 500, Deduct</i>	-0.82	
<i>For &gt;500 To 1,000, Deduct</i>	-1.37	
<i>For &gt;1,000, Deduct</i>	-1.92	
26 05 33 13-1954 LF 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	25.72	6.18
<i>For &gt;250 To 500, Deduct</i>	-0.97	
<i>For &gt;500 To 1,000, Deduct</i>	-1.61	
<i>For &gt;1,000, Deduct</i>	-2.26	
26 05 33 13-1955 LF 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	32.50	6.74
<i>For &gt;250 To 500, Deduct</i>	-1.24	
<i>For &gt;500 To 1,000, Deduct</i>	-2.05	
<i>For &gt;1,000, Deduct</i>	-2.86	
26 05 33 13-1956 LF 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	46.91	10.12
<i>For &gt;250 To 500, Deduct</i>	-1.82	
<i>For &gt;500 To 1,000, Deduct</i>	-2.99	
<i>For &gt;1,000, Deduct</i>	-4.16	
26 05 33 13-1957 LF 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	60.68	12.65
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500 To 1,000, Deduct</i>	-3.85	
<i>For &gt;1,000, Deduct</i>	-5.37	
26 05 33 13-1958 LF 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	74.99	13.36
<i>For &gt;250 To 500, Deduct</i>	-2.87	
<i>For &gt;500 To 1,000, Deduct</i>	-4.75	
<i>For &gt;1,000, Deduct</i>	-6.62	
26 05 33 13-1959 LF 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	89.13	14.76
<i>For &gt;250 To 500, Deduct</i>	-3.40	
<i>For &gt;500 To 1,000, Deduct</i>	-5.63	
<i>For &gt;1,000, Deduct</i>	-7.86	
26 05 33 13-1960 LF 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	136.65	20.38
<i>For &gt;250 To 500, Deduct</i>	-5.50	
<i>For &gt;500 To 1,000, Deduct</i>	-8.91	
<i>For &gt;1,000, Deduct</i>	-12.33	
26 05 33 13-1961 LF 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Conduit, Direct Burial .....	181.55	26.70
<i>For &gt;250 To 500, Deduct</i>	-7.39	
<i>For &gt;500 To 1,000, Deduct</i>	-11.93	
<i>For &gt;1,000, Deduct</i>	-16.47	
 <b>26 05 33 13-1962 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Couplings, Direct Burial</b> <small>(26 05 33 13-1948)</small>		
26 05 33 13-1963 EA 1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	14.41	4.22
26 05 33 13-1964 EA 3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	17.50	5.62
26 05 33 13-1965 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	22.18	7.02
26 05 33 13-1966 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....	24.93	7.73
26 05 33 13-1967 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....	29.54	9.14
26 05 33 13-1968 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	37.56	10.54
26 05 33 13-1969 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....	66.09	12.65
26 05 33 13-1970 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	84.68	17.57
26 05 33 13-1971 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial .....	104.31	20.38
26 05 33 13-1972 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	130.52	28.11
26 05 33 13-1973 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	319.42	38.65
26 05 33 13-1974 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Coupling, Direct Burial.....	314.04	21.78

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-1975		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small> Note: 90, 45, or 30 degree.		
26 05 33 13-1976	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	56.07	17.57
26 05 33 13-1977	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	65.29	21.78
26 05 33 13-1978	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	78.32	26.70
26 05 33 13-1979	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	92.46	30.92
26 05 33 13-1980	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	107.89	35.14
26 05 33 13-1981	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	129.81	38.65
26 05 33 13-1982	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	195.91	48.49
26 05 33 13-1983	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	290.19	66.06
26 05 33 13-1984	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	356.41	74.49
26 05 33 13-1985	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	413.22	96.98
26 05 33 13-1986	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	844.62	158.12
26 05 33 13-1987	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Standard Radius Elbow, Direct Burial.....	1,324.38	237.54
26 05 33 13-1988		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small>		
26 05 33 13-1989	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	127.64	26.70
26 05 33 13-1990	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	143.95	30.92
26 05 33 13-1991	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	164.27	35.14
26 05 33 13-1992	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	194.86	38.65
26 05 33 13-1993	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 12" Large Radius Elbow, Direct Burial.....	269.53	48.49
26 05 33 13-1994		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small>		
26 05 33 13-1995	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	140.98	26.70
26 05 33 13-1996	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	165.98	30.92
26 05 33 13-1997	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	180.07	35.14
26 05 33 13-1998	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	229.31	38.65
26 05 33 13-1999	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	302.76	48.49
26 05 33 13-2000	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 15" Large Radius Elbow, Direct Burial.....	388.73	66.06
26 05 33 13-2001		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small>		
26 05 33 13-2002	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	156.93	26.70
26 05 33 13-2003	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	177.46	30.92
26 05 33 13-2004	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	200.34	35.14
26 05 33 13-2005	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	240.74	38.65
26 05 33 13-2006	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	340.94	48.49
26 05 33 13-2007	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	433.55	66.06
26 05 33 13-2008	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	544.14	74.49
26 05 33 13-2009	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 18" Large Radius Elbow, Direct Burial.....	617.74	96.98
26 05 33 13-2010		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbows, Direct Burial</b> <small>(26 05 33 13-1948)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2011 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	184.47	26.70
26 05 33 13-2012 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	204.40	30.92
26 05 33 13-2013 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	230.93	35.14
26 05 33 13-2014 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	284.79	38.65
26 05 33 13-2015 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	409.27	48.49
26 05 33 13-2016 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	509.50	66.06
26 05 33 13-2017 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	590.51	74.49
26 05 33 13-2018 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 24" Large Radius Elbow, Direct Burial.....	702.87	96.98
<b>26 05 33 13-2019 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbows, Direct Burial</b> <sup>(26 05 33 13-1948)</sup>		
26 05 33 13-2020 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	205.91	26.70
26 05 33 13-2021 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	229.49	30.92
26 05 33 13-2022 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	261.04	35.14
26 05 33 13-2023 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	323.14	38.65
26 05 33 13-2024 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	446.55	48.49
26 05 33 13-2025 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	570.24	66.06
26 05 33 13-2026 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	703.25	74.49
26 05 33 13-2027 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	781.01	96.98
26 05 33 13-2028 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 30" Large Radius Elbow, Direct Burial.....	1,300.83	158.12
<b>26 05 33 13-2029 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbows, Direct Burial</b> <sup>(26 05 33 13-1948)</sup>		
26 05 33 13-2030 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	233.94	26.70
26 05 33 13-2031 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	259.79	30.92
26 05 33 13-2032 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	294.05	35.14
26 05 33 13-2033 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	365.67	38.65
26 05 33 13-2034 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	508.68	48.49
26 05 33 13-2035 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	647.64	66.06
26 05 33 13-2036 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	759.75	74.49
26 05 33 13-2037 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	881.90	96.98
26 05 33 13-2038 EA 5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,371.53	158.12
26 05 33 13-2039 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 36" Large Radius Elbow, Direct Burial.....	1,883.04	237.54
<b>26 05 33 13-2040 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbows, Direct Burial</b> <sup>(26 05 33 13-1948)</sup>		
26 05 33 13-2041 EA 1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	272.96	26.70
26 05 33 13-2042 EA 1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	286.80	30.92
26 05 33 13-2043 EA 1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	338.23	35.14
26 05 33 13-2044 EA 2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	424.87	38.65
26 05 33 13-2045 EA 2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	592.45	48.49
26 05 33 13-2046 EA 3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	751.98	66.06
26 05 33 13-2047 EA 3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	916.81	74.49
26 05 33 13-2048 EA 4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,078.15	96.98

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2049	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,602.15	158.12
26 05 33 13-2050	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 42" Large Radius Elbow, Direct Burial.....	1,988.90	237.54
<b>26 05 33 13-2051</b>		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbows, Direct Burial <small>(26 05 33 13-1948)</small></b>		
26 05 33 13-2052	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	282.36	26.70
26 05 33 13-2053	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	332.50	30.92
26 05 33 13-2054	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	376.43	35.14
26 05 33 13-2055	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	442.68	38.65
26 05 33 13-2056	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	613.38	48.49
26 05 33 13-2057	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	784.07	66.06
26 05 33 13-2058	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,002.35	74.49
26 05 33 13-2059	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,122.66	96.98
26 05 33 13-2060	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	1,664.11	158.12
26 05 33 13-2061	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) 48" Large Radius Elbow, Direct Burial.....	2,042.69	237.54
<b>26 05 33 13-2062</b>		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNF Conduit Unions, Direct Burial <small>(26 05 33 13-1948)</small></b>		
26 05 33 13-2063	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	97.51	17.57
26 05 33 13-2064	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	107.07	21.78
26 05 33 13-2065	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	138.54	26.70
26 05 33 13-2066	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	198.85	30.92
26 05 33 13-2067	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	235.52	35.14
26 05 33 13-2068	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	297.53	38.65
26 05 33 13-2069	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	395.13	48.49
26 05 33 13-2070	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	508.03	48.49
26 05 33 13-2071	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	658.86	74.49
26 05 33 13-2072	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	848.65	96.98
26 05 33 13-2073	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,539.93	158.12
26 05 33 13-2074	EA	6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNF Conduit Union, Direct Burial.....	1,932.46	237.54
<b>26 05 33 13-2075</b>		<b>Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), UNY Conduit Unions, Direct Burial <small>(26 05 33 13-1948)</small></b>		
26 05 33 13-2076	EA	1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	99.61	17.57
26 05 33 13-2077	EA	3/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	115.09	21.78
26 05 33 13-2078	EA	1" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	142.81	26.70
26 05 33 13-2079	EA	1-1/4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	206.70	30.92
26 05 33 13-2080	EA	1-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	246.42	35.14
26 05 33 13-2081	EA	2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	321.06	38.65
26 05 33 13-2082	EA	2-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	445.49	48.49
26 05 33 13-2083	EA	3" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	559.23	48.49
26 05 33 13-2084	EA	3-1/2" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	751.43	74.49
26 05 33 13-2085	EA	4" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	940.88	96.98
26 05 33 13-2086	EA	5" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	1,709.00	158.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2087 EA 6" Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) UNY Conduit Union, Direct Burial.....	2,205.46	237.54
<b>26 05 33 13-2088 Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS), Nipples, Direct Burial</b> <small>(26 05 33 13-1948)</small>		
26 05 33 13-2089 EA 1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	34.55	8.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33 13-2090 EA 3/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	39.11	10.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-2091 EA 1" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	45.72	13.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33 13-2092 EA 1-1/4" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	54.31	15.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33 13-2093 EA 1-1/2" x 2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	59.30	17.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-2094 EA 1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.24	9.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33 13-2095 EA 3/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	41.52	10.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-2096 EA 1" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	48.16	13.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33 13-2097 EA 1-1/4" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	56.90	15.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33 13-2098 EA 1-1/2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	62.08	17.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-2099 EA 2" x 2-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	67.51	19.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33 13-2100 EA 1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	38.40	9.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33 13-2101 EA 3/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	41.69	10.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-2102 EA 1" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	48.47	13.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33 13-2103 EA 1-1/4" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	57.23	15.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33 13-2104 EA 1-1/2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	62.41	17.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-2105 EA 2" x 3" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	68.37	19.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33 13-2106 EA 1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.69	9.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33 13-2107 EA 3/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	43.99	10.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-2108 EA 1" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	50.94	13.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33 13-2109 EA 1-1/4" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	58.64	15.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33 13-2110 EA 1-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	63.96	17.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-2111 EA 2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	71.08	19.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33 13-2112 EA 2-1/2" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	98.15	23.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33 13-2113 EA 3" x 3-1/2" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	127.67	33.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33 13-2114 EA 1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial.....	40.86	9.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2115	EA	3/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.30	10.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-2116	EA	1" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.27	13.36
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33 13-2117	EA	1-1/4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.04	15.46
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33 13-2118	EA	1-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	65.50	17.57
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-2119	EA	2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	73.78	19.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33 13-2120	EA	2-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	100.54	23.90
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33 13-2121	EA	3" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	132.81	33.03
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33 13-2122	EA	3-1/2" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	157.76	37.24
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33 13-2123	EA	4" x 4" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	186.06	48.49
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33 13-2124	EA	1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.18	9.14
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33 13-2125	EA	3/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	44.64	10.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-2126	EA	1" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	51.64	13.36
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33 13-2127	EA	1-1/4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	60.69	15.46
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33 13-2128	EA	1-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	66.18	17.57
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-2129	EA	2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	75.26	19.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33 13-2130	EA	2-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	110.06	23.90
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33 13-2131	EA	3" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	140.52	33.03
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33 13-2132	EA	3-1/2" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	159.40	37.24
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33 13-2133	EA	4" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	190.46	48.49
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33 13-2134	EA	5" x 5" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	278.94	66.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06	
26 05 33 13-2135	EA	1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	41.78	9.14
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33 13-2136	EA	3/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	45.24	10.54
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-2137	EA	1" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	52.29	13.36
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33 13-2138	EA	1-1/4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	61.90	15.46
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33 13-2139	EA	1-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	67.63	17.57
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-2140	EA	2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	76.73	19.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33 13-2141	EA	2-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	119.72	23.90
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33 13-2142	EA	3" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	150.77	33.03
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2143	EA	3-1/2" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	168.63	37.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33	13-2144	EA	4" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	206.02	48.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33	13-2145	EA	5" x 6" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	302.21	66.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06	
26 05 33	13-2146	EA	1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	42.72	9.14
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33	13-2147	EA	3/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	46.16	10.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33	13-2148	EA	1" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	53.74	13.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33	13-2149	EA	1-1/4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	62.21	15.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33	13-2150	EA	1-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	70.58	17.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-2151	EA	2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	83.93	19.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33	13-2152	EA	2-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	131.61	23.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33	13-2153	EA	3" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	164.78	33.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33	13-2154	EA	3-1/2" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	191.73	37.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33	13-2155	EA	4" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	229.39	48.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33	13-2156	EA	5" x 8" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	318.15	66.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06	
26 05 33	13-2157	EA	1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	43.71	9.14
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33	13-2158	EA	3/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	47.13	10.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33	13-2159	EA	1" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	55.16	13.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33	13-2160	EA	1-1/4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	66.56	15.46
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33	13-2161	EA	1-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	77.59	17.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-2162	EA	2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	94.52	19.68
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33	13-2163	EA	2-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	144.18	23.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33	13-2164	EA	3" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	182.74	33.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33	13-2165	EA	3-1/2" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	215.99	37.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33	13-2166	EA	4" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	270.27	48.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33	13-2167	EA	5" x 10" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	349.98	66.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06	
26 05 33	13-2168	EA	1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	44.73	9.14
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.48	
26 05 33	13-2169	EA	3/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	48.26	10.54
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33	13-2170	EA	1" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct		
			Burial	58.79	13.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2171	EA	1-1/4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	73.71	15.46
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33 13-2172	EA	1-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	86.07	17.57
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33 13-2173	EA	2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	103.02	19.68
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	
26 05 33 13-2174	EA	2-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	160.95	23.90
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.34	
26 05 33 13-2175	EA	3" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	209.65	33.03
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.82	
26 05 33 13-2176	EA	3-1/2" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	230.88	37.24
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.35	
26 05 33 13-2177	EA	4" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	282.81	48.49
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.09	
26 05 33 13-2178	EA	5" x 12" Long Polyvinyl Chloride (PVC) Coated, Urethane Lined, Rigid Galvanized Steel (RGS) Nipple, Direct Burial	354.52	66.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.06	
26 05 33 13-2179		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit</b> <small>(26 05 33 13-1868)</small> Note: Direct burial or encased application.		
26 05 33 13-2180		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit</b> <small>(26 05 33 13-2179)</small>		
26 05 33 13-2181	LF	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	9.87	1.59
		<i>For Work In Restricted Working Space, Add</i>	1.20	
26 05 33 13-2182	LF	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	10.93	1.72
		<i>For Work In Restricted Working Space, Add</i>	1.29	
26 05 33 13-2183	LF	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	11.62	1.84
		<i>For Work In Restricted Working Space, Add</i>	1.38	
26 05 33 13-2184	LF	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	12.31	1.96
		<i>For Work In Restricted Working Space, Add</i>	1.47	
26 05 33 13-2185	LF	1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	13.22	2.08
		<i>For Work In Restricted Working Space, Add</i>	1.57	
26 05 33 13-2186	LF	2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	13.74	2.21
		<i>For Work In Restricted Working Space, Add</i>	1.66	
26 05 33 13-2187	LF	2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	15.67	2.33
		<i>For Work In Restricted Working Space, Add</i>	1.75	
26 05 33 13-2188	LF	3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	17.95	2.45
		<i>For Work In Restricted Working Space, Add</i>	1.84	
26 05 33 13-2189	LF	3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	19.73	2.57
		<i>For Work In Restricted Working Space, Add</i>	1.93	
26 05 33 13-2190	LF	4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	21.51	2.70
		<i>For Work In Restricted Working Space, Add</i>	2.03	
26 05 33 13-2191	LF	5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	25.49	2.82
		<i>For Work In Restricted Working Space, Add</i>	2.12	
26 05 33 13-2192	LF	6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit, Direct Burial	30.42	2.94
		<i>For Work In Restricted Working Space, Add</i>	2.21	
26 05 33 13-2193		<b>Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbows, 12" Large Radius Elbows</b> <small>(26 05 33 13-2179)</small>		
26 05 33 13-2194	EA	1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	139.62	12.27
		<i>For Work In Restricted Working Space, Add</i>	9.20	
		<i>For 24" Radius, Add</i>	9.70	
		<i>For 36" Radius, Add</i>	13.96	
		<i>For 48" Radius, Add</i>	18.22	
26 05 33 13-2195	EA	3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	158.78	14.72
		<i>For Work In Restricted Working Space, Add</i>	11.04	
		<i>For 24" Radius, Add</i>	10.99	
		<i>For 36" Radius, Add</i>	15.88	
		<i>For 48" Radius, Add</i>	20.77	
26 05 33 13-2196	EA	1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	166.16	17.18
		<i>For Work In Restricted Working Space, Add</i>	12.88	
		<i>For 24" Radius, Add</i>	11.39	
		<i>For 36" Radius, Add</i>	16.62	
		<i>For 48" Radius, Add</i>	21.84	
26 05 33 13-2197	EA	1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial	173.49	19.63
		<i>For Work In Restricted Working Space, Add</i>	14.72	
		<i>For 24" Radius, Add</i>	11.79	
		<i>For 36" Radius, Add</i>	17.35	
		<i>For 48" Radius, Add</i>	22.91	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2198 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	180.87	22.08
<i>For Work In Restricted Working Space, Add</i>	16.56	
<i>For 24" Radius, Add</i>	12.19	
<i>For 36" Radius, Add</i>	18.09	
<i>For 48" Radius, Add</i>	23.99	
26 05 33 13-2199 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	204.33	24.54
<i>For Work In Restricted Working Space, Add</i>	18.40	
<i>For 24" Radius, Add</i>	13.79	
<i>For 36" Radius, Add</i>	20.43	
<i>For 48" Radius, Add</i>	27.07	
26 05 33 13-2200 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	238.62	26.99
<i>For Work In Restricted Working Space, Add</i>	20.24	
<i>For 24" Radius, Add</i>	16.21	
<i>For 36" Radius, Add</i>	23.86	
<i>For 48" Radius, Add</i>	31.51	
26 05 33 13-2201 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	278.98	29.44
<i>For Work In Restricted Working Space, Add</i>	22.08	
<i>For 24" Radius, Add</i>	19.08	
<i>For 36" Radius, Add</i>	27.90	
<i>For 48" Radius, Add</i>	36.71	
26 05 33 13-2202 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	316.92	34.35
<i>For Work In Restricted Working Space, Add</i>	25.76	
<i>For 24" Radius, Add</i>	21.62	
<i>For 36" Radius, Add</i>	31.69	
<i>For 48" Radius, Add</i>	41.76	
26 05 33 13-2203 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	354.85	44.16
<i>For Work In Restricted Working Space, Add</i>	29.44	
<i>For 24" Radius, Add</i>	24.16	
<i>For 36" Radius, Add</i>	35.49	
<i>For 48" Radius, Add</i>	46.81	
26 05 33 13-2204 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	431.30	44.16
<i>For Work In Restricted Working Space, Add</i>	33.12	
<i>For 24" Radius, Add</i>	29.59	
<i>For 36" Radius, Add</i>	43.13	
<i>For 48" Radius, Add</i>	56.67	
26 05 33 13-2205 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit 90 Degree Elbow, 12" Large Radius Elbows, Direct Burial .....	523.80	49.07
<i>For Work In Restricted Working Space, Add</i>	36.81	
<i>For 24" Radius, Add</i>	36.22	
<i>For 36" Radius, Add</i>	52.38	
<i>For 48" Radius, Add</i>	68.54	
<b>26 05 33 13-2206 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Couplings</b> <small>(26 05 33 13-2179)</small>		
26 05 33 13-2207 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	62.29	6.87
<i>For Work In Restricted Working Space, Add</i>	5.15	
26 05 33 13-2208 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	69.90	7.85
<i>For Work In Restricted Working Space, Add</i>	5.89	
26 05 33 13-2209 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	72.87	8.83
<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33 13-2210 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial .....	75.75	9.81
<i>For Work In Restricted Working Space, Add</i>	7.36	
26 05 33 13-2211 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial .....	79.23	10.80
<i>For Work In Restricted Working Space, Add</i>	8.10	
26 05 33 13-2212 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	91.65	11.78
<i>For Work In Restricted Working Space, Add</i>	8.83	
26 05 33 13-2213 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial .....	108.00	13.25
<i>For Work In Restricted Working Space, Add</i>	9.94	
26 05 33 13-2214 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	126.65	14.72
<i>For Work In Restricted Working Space, Add</i>	11.04	
26 05 33 13-2215 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial .....	144.02	17.18
<i>For Work In Restricted Working Space, Add</i>	12.88	
26 05 33 13-2216 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	161.38	19.63
<i>For Work In Restricted Working Space, Add</i>	14.72	
26 05 33 13-2217 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	195.59	22.08
<i>For Work In Restricted Working Space, Add</i>	16.56	
26 05 33 13-2218 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Double Bell Coupling, Direct Burial.....	236.76	24.54
<i>For Work In Restricted Working Space, Add</i>	18.40	
<b>26 05 33 13-2219 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Couplings</b> <small>(26 05 33 13-2179)</small>		
26 05 33 13-2220 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....	42.63	6.87
<i>For Work In Restricted Working Space, Add</i>	5.15	
26 05 33 13-2221 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial .....	47.91	7.85
<i>For Work In Restricted Working Space, Add</i>	5.89	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2222 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	50.66	8.83
<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33 13-2223 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	53.42	9.81
<i>For Work In Restricted Working Space, Add</i>	7.36	
26 05 33 13-2224 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	56.17	10.80
<i>For Work In Restricted Working Space, Add</i>	8.10	
26 05 33 13-2225 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	58.79	11.78
<i>For Work In Restricted Working Space, Add</i>	8.83	
26 05 33 13-2226 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	68.34	13.25
<i>For Work In Restricted Working Space, Add</i>	9.94	
26 05 33 13-2227 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	79.07	14.72
<i>For Work In Restricted Working Space, Add</i>	11.04	
26 05 33 13-2228 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	90.50	17.18
<i>For Work In Restricted Working Space, Add</i>	12.88	
26 05 33 13-2229 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	101.91	19.63
<i>For Work In Restricted Working Space, Add</i>	14.72	
26 05 33 13-2230 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	121.31	22.08
<i>For Work In Restricted Working Space, Add</i>	16.56	
26 05 33 13-2231 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Radius Double Bell Coupling, Direct Burial.....	143.91	24.54
<i>For Work In Restricted Working Space, Add</i>	18.40	
<b>26 05 33 13-2232 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Couplings</b> <small>(26 05 33 13-2179)</small>		
26 05 33 13-2233 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	41.45	3.93
<i>For Work In Restricted Working Space, Add</i>	2.94	
26 05 33 13-2234 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	46.22	4.42
<i>For Work In Restricted Working Space, Add</i>	3.32	
26 05 33 13-2235 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	47.82	4.91
<i>For Work In Restricted Working Space, Add</i>	3.68	
26 05 33 13-2236 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	49.27	5.40
<i>For Work In Restricted Working Space, Add</i>	4.05	
26 05 33 13-2237 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	51.30	5.89
<i>For Work In Restricted Working Space, Add</i>	4.42	
26 05 33 13-2238 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	60.74	6.87
<i>For Work In Restricted Working Space, Add</i>	5.15	
26 05 33 13-2239 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	73.10	8.34
<i>For Work In Restricted Working Space, Add</i>	6.26	
26 05 33 13-2240 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	87.22	9.81
<i>For Work In Restricted Working Space, Add</i>	7.36	
26 05 33 13-2241 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	101.18	12.27
<i>For Work In Restricted Working Space, Add</i>	9.20	
26 05 33 13-2242 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	115.14	14.72
<i>For Work In Restricted Working Space, Add</i>	11.04	
26 05 33 13-2243 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	140.83	17.18
<i>For Work In Restricted Working Space, Add</i>	12.88	
26 05 33 13-2244 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Sleeve Coupling, Direct Burial.....	171.48	19.63
<i>For Work In Restricted Working Space, Add</i>	14.72	
<b>26 05 33 13-2245 Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joints</b> <small>(26 05 33 13-2179)</small>		
26 05 33 13-2246 EA 1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	96.21	24.54
<i>For Work In Restricted Working Space, Add</i>	18.40	
26 05 33 13-2247 EA 3/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	112.29	29.44
<i>For Work In Restricted Working Space, Add</i>	22.08	
26 05 33 13-2248 EA 1" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	124.99	34.35
<i>For Work In Restricted Working Space, Add</i>	25.76	
26 05 33 13-2249 EA 1-1/4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	137.50	39.26
<i>For Work In Restricted Working Space, Add</i>	29.44	
26 05 33 13-2250 EA 1-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	144.54	41.71
<i>For Work In Restricted Working Space, Add</i>	31.28	
26 05 33 13-2251 EA 2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	158.33	44.16
<i>For Work In Restricted Working Space, Add</i>	33.12	
26 05 33 13-2252 EA 2-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	174.06	46.62
<i>For Work In Restricted Working Space, Add</i>	34.97	
26 05 33 13-2253 EA 3" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	191.70	49.07
<i>For Work In Restricted Working Space, Add</i>	36.81	
26 05 33 13-2254 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	206.45	51.53
<i>For Work In Restricted Working Space, Add</i>	38.65	
26 05 33 13-2255 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	221.22	53.98
<i>For Work In Restricted Working Space, Add</i>	40.49	
26 05 33 13-2256 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	248.91	56.43
<i>For Work In Restricted Working Space, Add</i>	42.33	
26 05 33 13-2257 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Expansion Joint, Direct Burial.....	282.01	58.89
<i>For Work In Restricted Working Space, Add</i>	44.17	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**26 05 33 13-2258     Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joints** (26 05 33 13-2179)

26 05 33 13-2259	EA	1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	110.37	24.54
			<i>For Work In Restricted Working Space, Add</i>	18.40	
26 05 33 13-2260	EA	3/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	128.16	29.44
			<i>For Work In Restricted Working Space, Add</i>	22.08	
26 05 33 13-2261	EA	1"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	140.95	34.35
			<i>For Work In Restricted Working Space, Add</i>	25.76	
26 05 33 13-2262	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	153.63	39.26
			<i>For Work In Restricted Working Space, Add</i>	29.44	
26 05 33 13-2263	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	160.80	41.71
			<i>For Work In Restricted Working Space, Add</i>	31.28	
26 05 33 13-2264	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	176.90	44.16
			<i>For Work In Restricted Working Space, Add</i>	33.12	
26 05 33 13-2265	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	196.34	46.62
			<i>For Work In Restricted Working Space, Add</i>	34.97	
26 05 33 13-2266	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	218.44	49.07
			<i>For Work In Restricted Working Space, Add</i>	36.81	
26 05 33 13-2267	EA	3-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	236.55	51.53
			<i>For Work In Restricted Working Space, Add</i>	38.65	
26 05 33 13-2268	EA	4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	254.67	53.98
			<i>For Work In Restricted Working Space, Add</i>	40.49	
26 05 33 13-2269	EA	5"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	290.84	56.43
			<i>For Work In Restricted Working Space, Add</i>	42.33	
26 05 33 13-2270	EA	6"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion Joint, Direct Burial	334.42	58.89
			<i>For Work In Restricted Working Space, Add</i>	44.17	

**26 05 33 13-2271     Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapters** (26 05 33 13-2179)

26 05 33 13-2272	EA	1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	133.76	6.87
			<i>For Work In Restricted Working Space, Add</i>	5.15	
26 05 33 13-2273	EA	3/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	149.14	7.85
			<i>For Work In Restricted Working Space, Add</i>	5.89	
26 05 33 13-2274	EA	1"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	155.57	8.83
			<i>For Work In Restricted Working Space, Add</i>	6.62	
26 05 33 13-2275	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	162.18	9.81
			<i>For Work In Restricted Working Space, Add</i>	7.36	
26 05 33 13-2276	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	166.77	10.80
			<i>For Work In Restricted Working Space, Add</i>	8.10	
26 05 33 13-2277	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	182.52	11.78
			<i>For Work In Restricted Working Space, Add</i>	8.83	
26 05 33 13-2278	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	216.85	13.25
			<i>For Work In Restricted Working Space, Add</i>	9.94	
26 05 33 13-2279	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	257.14	14.72
			<i>For Work In Restricted Working Space, Add</i>	11.04	
26 05 33 13-2280	EA	3-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	290.84	17.18
			<i>For Work In Restricted Working Space, Add</i>	12.88	
26 05 33 13-2281	EA	4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	324.52	19.63
			<i>For Work In Restricted Working Space, Add</i>	14.72	
26 05 33 13-2282	EA	5"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	399.63	22.08
			<i>For Work In Restricted Working Space, Add</i>	16.56	
26 05 33 13-2283	EA	6"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit Adapter, Direct Burial	489.19	24.54
			<i>For Work In Restricted Working Space, Add</i>	18.40	

**26 05 33 13-2284     Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joints** (26 05 33 13-2179)

26 05 33 13-2285	EA	1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	134.99	24.54
			<i>For Work In Restricted Working Space, Add</i>	18.40	
26 05 33 13-2286	EA	3/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	155.46	29.44
			<i>For Work In Restricted Working Space, Add</i>	22.08	
26 05 33 13-2287	EA	1"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	186.99	34.35
			<i>For Work In Restricted Working Space, Add</i>	25.76	
26 05 33 13-2288	EA	1-1/4"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	234.46	39.26
			<i>For Work In Restricted Working Space, Add</i>	29.44	
26 05 33 13-2289	EA	1-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	291.16	41.71
			<i>For Work In Restricted Working Space, Add</i>	31.28	
26 05 33 13-2290	EA	2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	387.37	44.16
			<i>For Work In Restricted Working Space, Add</i>	33.12	
26 05 33 13-2291	EA	2-1/2"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	552.37	46.62
			<i>For Work In Restricted Working Space, Add</i>	34.97	
26 05 33 13-2292	EA	3"	Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	663.10	49.07
			<i>For Work In Restricted Working Space, Add</i>	36.81	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2293 EA 3-1/2" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	793.44	51.53
<i>For Work In Restricted Working Space, Add</i>	38.65	
26 05 33 13-2294 EA 4" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	923.79	53.98
<i>For Work In Restricted Working Space, Add</i>	40.49	
26 05 33 13-2295 EA 5" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	1,078.09	56.43
<i>For Work In Restricted Working Space, Add</i>	42.33	
26 05 33 13-2296 EA 6" Fiberglass Reinforced Epoxy (FRE) Standard Wall (SW) Conduit O-Ring Expansion/Deflection Joint, Direct Burial	1,737.96	58.89
<i>For Work In Restricted Working Space, Add</i>	44.17	
<b>26 05 33 13-2297 Spacers</b> <small>(26 05 33 13-1868)</small>		
Note: For concrete encasement applications. See CSI section 03 30 53 00-0001 for concrete., 26 05 33 13-1868 for conduit.		
26 05 33 13-2298 EA 1" Base Spacers, Average 4" Wide, Direct Burial	12.91	
26 05 33 13-2299 EA 1" Intermediate Spacers, Average 4" Wide, Direct Burial	13.88	
26 05 33 13-2300 EA 1-1/4" Base Spacer, Average 4" Wide, Direct Burial	15.37	
26 05 33 13-2301 EA 1-1/4" Intermediate Spacers, Average 4" Wide, Direct Burial	16.55	
26 05 33 13-2302 EA 1-1/2" Base Spacer, Average 4" Wide, Direct Burial	15.50	
26 05 33 13-2303 EA 1-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	16.64	
26 05 33 13-2304 EA 2" Base Spacer, Average 4" Wide, Direct Burial	19.26	
26 05 33 13-2305 EA 2" Intermediate Spacers, Average 4" Wide, Direct Burial	17.87	
26 05 33 13-2306 EA 2-1/2" Base Spacer, Average 4" Wide, Direct Burial	21.28	
26 05 33 13-2307 EA 2-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	20.58	
26 05 33 13-2308 EA 3" Base Spacer, Average 4" Wide, Direct Burial	24.36	
26 05 33 13-2309 EA 3" Intermediate Spacers, Average 4" Wide, Direct Burial	23.26	
26 05 33 13-2310 EA 3-1/2" Base Spacer, Average 4" Wide, Direct Burial	26.40	
26 05 33 13-2311 EA 3-1/2" Intermediate Spacers, Average 4" Wide, Direct Burial	25.24	
26 05 33 13-2312 EA 4" Base Spacer, Average 4" Wide, Direct Burial	27.19	
26 05 33 13-2313 EA 4" Intermediate Spacers, Average 4" Wide, Direct Burial	25.95	
26 05 33 13-2314 EA 5" Base Spacer, Average 4" Wide, Direct Burial	30.07	
26 05 33 13-2315 EA 5" Intermediate Spacers, Average 4" Wide, Direct Burial	28.58	
26 05 33 13-2316 EA 6" Base Spacer, Average 4" Wide, Direct Burial	33.87	
26 05 33 13-2317 EA 6" Intermediate Spacers, Average 4" Wide, Direct Burial	32.63	
<b>26 05 33 13-2318 Conduit Field Bending</b> <small>(26 05 33 13-0058)</small>		
<b>26 05 33 13-2319 Metallic Conduit Field Bending</b> <small>(26 05 33 13-2318)</small>		
Note: For use with Rigid Galvanized Steel (RGS), Electrical Metallic Tubing (EMT), Intermediate Metal Conduit (IMC) and aluminum conduits.		
26 05 33 13-2320 EA 1-1/4" Metallic Conduit Field Bending	23.59	
26 05 33 13-2321 EA 1-1/2" Metallic Conduit Field Bending	31.44	
26 05 33 13-2322 EA 2" Metallic Conduit Field Bending	39.30	
26 05 33 13-2323 EA 2-1/2" Metallic Conduit Field Bending	55.03	
26 05 33 13-2324 EA 3" Metallic Conduit Field Bending	70.75	
26 05 33 13-2325 EA 3-1/2" Metallic Conduit Field Bending	86.46	
26 05 33 13-2326 EA 4" Metallic Conduit Field Bending	102.19	
26 05 33 13-2327 EA 5" Metallic Conduit Field Bending	125.78	
26 05 33 13-2328 EA 6" Metallic Conduit Field Bending	149.35	
<b>26 05 33 13-2329 Plastic Conduit Field Bending</b> <small>(26 05 33 13-2318)</small>		
Note: For PVC conduits.		
26 05 33 13-2330 EA 1" Plastic Conduit Field Bending	36.16	
26 05 33 13-2331 EA 1-1/4" Plastic Conduit Field Bending	39.30	
26 05 33 13-2332 EA 1-1/2" Plastic Conduit Field Bending	47.16	
26 05 33 13-2333 EA 2" Plastic Conduit Field Bending	62.89	
26 05 33 13-2334 EA 2-1/2" Plastic Conduit Field Bending	78.61	
26 05 33 13-2335 EA 3" Plastic Conduit Field Bending	94.33	
26 05 33 13-2336 EA 3-1/2" Plastic Conduit Field Bending	110.05	
26 05 33 13-2337 EA 4" Plastic Conduit Field Bending	125.78	
26 05 33 13-2338 EA 5" Plastic Conduit Field Bending	141.50	
26 05 33 13-2339 EA 6" Plastic Conduit Field Bending	157.22	
<b>26 05 33 13-2340 Cut And Thread Existing In-Place Threaded Conduit</b> <small>(26 05 33 13-0058)</small>		
Note: For use when connecting conduit to an existing in-place system.		
26 05 33 13-2341 EA 1/2", Cut And Thread Existing In-Place Threaded Conduit	46.21	
<i>For Work In Restricted Working Space, Add</i>	13.86	
26 05 33 13-2342 EA 3/4", Cut And Thread Existing In-Place Threaded Conduit	50.82	
<i>For Work In Restricted Working Space, Add</i>	15.25	
26 05 33 13-2343 EA 1", Cut And Thread Existing In-Place Threaded Conduit	55.45	
<i>For Work In Restricted Working Space, Add</i>	16.64	
26 05 33 13-2344 EA 1-1/4", Cut And Thread Existing In-Place Threaded Conduit	60.07	
<i>For Work In Restricted Working Space, Add</i>	18.02	
26 05 33 13-2345 EA 1-1/2", Cut And Thread Existing In-Place Threaded Conduit	63.15	
<i>For Work In Restricted Working Space, Add</i>	18.95	
26 05 33 13-2346 EA 2", Cut And Thread Existing In-Place Threaded Conduit	66.23	
<i>For Work In Restricted Working Space, Add</i>	19.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2347 EA 2-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	69.31	
<i>For Work In Restricted Working Space, Add</i>	20.79	
26 05 33 13-2348 EA 3", Cut And Thread Existing In-Place Threaded Conduit.....	72.39	
<i>For Work In Restricted Working Space, Add</i>	21.72	
26 05 33 13-2349 EA 3-1/2", Cut And Thread Existing In-Place Threaded Conduit.....	73.93	
<i>For Work In Restricted Working Space, Add</i>	22.18	
26 05 33 13-2350 EA 4", Cut And Thread Existing In-Place Threaded Conduit.....	75.47	
<i>For Work In Restricted Working Space, Add</i>	22.64	
26 05 33 13-2351 EA 5", Cut And Thread Existing In-Place Threaded Conduit.....	78.55	
<i>For Work In Restricted Working Space, Add</i>	23.57	
26 05 33 13-2352 EA 6", Cut And Thread Existing In-Place Threaded Conduit.....	81.63	
<i>For Work In Restricted Working Space, Add</i>	24.49	
26 05 33 13-2353 Flexible Conduit (26 05 33 13-0058)		
26 05 33 13-2354 Flexible Liquid Tight Metallic Conduit And Connectors (26 05 33 13-2353)		
Note: Steel inner core with PVC cover.		
26 05 33 13-2355 Flexible Liquid Tight Metallic Conduit (26 05 33 13-2354)		
26 05 33 13-2356 LF 3/8" Flexible Liquid Tight Metallic Conduit.....	5.57	1.68
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.63	
<i>For Work In Restricted Working Space, Add</i>	1.27	
26 05 33 13-2357 LF 1/2" Flexible Liquid Tight Metallic Conduit.....	5.77	1.68
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.63	
<i>For Work In Restricted Working Space, Add</i>	1.27	
26 05 33 13-2358 LF 3/4" Flexible Liquid Tight Metallic Conduit.....	7.72	2.24
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.84	
<i>For Work In Restricted Working Space, Add</i>	1.69	
26 05 33 13-2359 LF 1" Flexible Liquid Tight Metallic Conduit.....	8.79	2.24
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.84	
<i>For Work In Restricted Working Space, Add</i>	1.69	
26 05 33 13-2360 LF 1-1/4" Flexible Liquid Tight Metallic Conduit.....	11.34	2.82
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.05	
<i>For Work In Restricted Working Space, Add</i>	2.11	
26 05 33 13-2361 LF 1-1/2" Flexible Liquid Tight Metallic Conduit.....	14.50	3.38
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.27	
<i>For Work In Restricted Working Space, Add</i>	2.53	
26 05 33 13-2362 LF 2" Flexible Liquid Tight Metallic Conduit.....	19.09	4.50
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.69	
<i>For Work In Restricted Working Space, Add</i>	3.37	
26 05 33 13-2363 LF 2-1/2" Flexible Liquid Tight Metallic Conduit.....	25.61	5.06
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	1.90	
<i>For Work In Restricted Working Space, Add</i>	3.80	
26 05 33 13-2364 LF 3" Flexible Liquid Tight Metallic Conduit.....	37.25	6.18
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.32	
<i>For Work In Restricted Working Space, Add</i>	4.64	
26 05 33 13-2365 LF 4" Flexible Liquid Tight Metallic Conduit.....	50.78	7.88
<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	2.95	
<i>For Work In Restricted Working Space, Add</i>	5.90	
26 05 33 13-2366 Straight Liquid Tight Connector (26 05 33 13-2354)		
26 05 33 13-2367 EA 3/8" Straight Liquid Tight Connector.....	15.08	4.50
<i>For Work In Restricted Working Space, Add</i>	3.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.37	
26 05 33 13-2368 EA 1/2" Straight Liquid Tight Connector.....	15.08	4.50
<i>For Work In Restricted Working Space, Add</i>	3.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.37	
26 05 33 13-2369 EA 3/4" Straight Liquid Tight Connector.....	18.16	5.06
<i>For Work In Restricted Working Space, Add</i>	3.80	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.80	
26 05 33 13-2370 EA 1" Straight Liquid Tight Connector.....	23.89	5.62
<i>For Work In Restricted Working Space, Add</i>	4.22	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.22	
26 05 33 13-2371 EA 1-1/4" Straight Liquid Tight Connector.....	30.32	6.18
<i>For Work In Restricted Working Space, Add</i>	4.64	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33 13-2372 EA 1-1/2" Straight Liquid Tight Connector.....	38.06	6.74
<i>For Work In Restricted Working Space, Add</i>	5.06	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33 13-2373 EA 2" Straight Liquid Tight Connector.....	51.97	7.88
<i>For Work In Restricted Working Space, Add</i>	5.90	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.90	
26 05 33 13-2374 EA 2-1/2" Straight Liquid Tight Connector.....	171.90	10.12
<i>For Work In Restricted Working Space, Add</i>	7.59	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.59	
26 05 33 13-2375 EA 3" Straight Liquid Tight Connector.....	220.85	10.68
<i>For Work In Restricted Working Space, Add</i>	8.01	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33 13-2376 EA 4" Straight Liquid Tight Connector.....	271.23	15.74
<i>For Work In Restricted Working Space, Add</i>	11.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.81	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2377		<b>90 Degree Angle Liquid Tight Connector</b> (26 05 33 13-2354)		
26 05 33	13-2378	EA	3/8" 90 Degree Angle Liquid Tight Connector.....	21.88	6.18
			<i>For Work In Restricted Working Space, Add</i>	4.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33	13-2379	EA	1/2" 90 Degree Angle Liquid Tight Connector.....	22.71	6.18
			<i>For Work In Restricted Working Space, Add</i>	4.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33	13-2380	EA	3/4" 90 Degree Angle Liquid Tight Connector.....	25.58	6.74
			<i>For Work In Restricted Working Space, Add</i>	5.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33	13-2381	EA	1" 90 Degree Angle Liquid Tight Connector.....	35.53	7.88
			<i>For Work In Restricted Working Space, Add</i>	5.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.90	
26 05 33	13-2382	EA	1-1/4" 90 Degree Angle Liquid Tight Connector.....	44.26	8.44
			<i>For Work In Restricted Working Space, Add</i>	6.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33	13-2383	EA	1-1/2" 90 Degree Angle Liquid Tight Connector.....	53.28	9.00
			<i>For Work In Restricted Working Space, Add</i>	6.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33	13-2384	EA	2" 90 Degree Angle Liquid Tight Connector.....	69.87	10.12
			<i>For Work In Restricted Working Space, Add</i>	7.59	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.59	
26 05 33	13-2385	EA	2-1/2" 90 Degree Angle Liquid Tight Connector.....	238.99	10.68
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33	13-2386	EA	3" 90 Degree Angle Liquid Tight Connector.....	282.32	12.36
			<i>For Work In Restricted Working Space, Add</i>	9.28	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.28	
26 05 33	13-2387	EA	4" 90 Degree Angle Liquid Tight Connector.....	391.40	19.68
			<i>For Work In Restricted Working Space, Add</i>	14.76	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.76	
26 05 33	13-2388		<b>45 Degree Angle Connector</b> (26 05 33 13-2354)		
26 05 33	13-2389	EA	3/8" 45 Degree Angle Liquid Tight Connector.....	21.60	6.18
			<i>For Work In Restricted Working Space, Add</i>	4.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33	13-2390	EA	1/2" 45 Degree Angle Liquid Tight Connector.....	21.80	6.18
			<i>For Work In Restricted Working Space, Add</i>	4.64	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33	13-2391	EA	3/4" 45 Degree Angle Liquid Tight Connector.....	25.58	6.74
			<i>For Work In Restricted Working Space, Add</i>	5.06	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33	13-2392	EA	1" 45 Degree Angle Liquid Tight Connector.....	37.79	7.88
			<i>For Work In Restricted Working Space, Add</i>	5.90	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.90	
26 05 33	13-2393	EA	1-1/4" 45 Degree Angle Liquid Tight Connector.....	42.79	8.44
			<i>For Work In Restricted Working Space, Add</i>	6.32	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33	13-2394	EA	1-1/2" 45 Degree Angle Liquid Tight Connector.....	47.81	9.00
			<i>For Work In Restricted Working Space, Add</i>	6.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33	13-2395		<b>Flexible Metallic Conduit And Connectors</b> (26 05 33 13-2353)		
26 05 33	13-2396		<b>Flexible Steel Conduit</b> (26 05 33 13-2395)		
26 05 33	13-2397	LF	3/8" Flexible Metallic Conduit.....	5.28	1.84
			<i>For Flexible Aluminum Conduit, Add</i>	0.13	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.68	
			<i>For Installation In Metal Stud Wall, Add</i>	0.45	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.13	
			<i>For Work In Restricted Working Space, Add</i>	1.35	
26 05 33	13-2398	LF	1/2" Flexible Metallic Conduit.....	5.47	1.84
			<i>For Flexible Aluminum Conduit, Add</i>	0.14	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.69	
			<i>For Installation In Metal Stud Wall, Add</i>	0.46	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.16	
			<i>For Work In Restricted Working Space, Add</i>	1.39	
26 05 33	13-2399	LF	3/4" Flexible Metallic Conduit.....	6.16	2.46
			<i>For Flexible Aluminum Conduit, Add</i>	0.19	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.75	
			<i>For Installation In Metal Stud Wall, Add</i>	0.50	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.25	
			<i>For Work In Restricted Working Space, Add</i>	1.50	
26 05 33	13-2400	LF	1" Flexible Metallic Conduit.....	7.54	2.46
			<i>For Flexible Aluminum Conduit, Add</i>	0.36	
			<i>For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add</i>	0.81	
			<i>For Installation In Metal Stud Wall, Add</i>	0.54	
			<i>For Installation In Wood Stud Wall (Includes Drilling), Add</i>	1.35	
			<i>For Work In Restricted Working Space, Add</i>	1.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2401 LF 1-1/4" Flexible Metallic Conduit .....	8.50	3.08
For Flexible Aluminum Conduit, Add	0.46	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.85	
For Installation In Metal Stud Wall, Add	0.57	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.42	
For Work In Restricted Working Space, Add	1.71	
26 05 33 13-2402 LF 1-1/2" Flexible Metallic Conduit .....	10.85	3.70
For Flexible Aluminum Conduit, Add	0.81	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.89	
For Installation In Metal Stud Wall, Add	0.59	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.48	
For Work In Restricted Working Space, Add	1.78	
26 05 33 13-2403 LF 2" Flexible Metallic Conduit.....	12.19	4.92
For Flexible Aluminum Conduit, Add	1.00	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	0.92	
For Installation In Metal Stud Wall, Add	0.62	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.54	
For Work In Restricted Working Space, Add	1.85	
26 05 33 13-2404 LF 2-1/2" Flexible Steel Conduit .....	15.00	5.54
For Flexible Aluminum Conduit, Add	1.21	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.15	
For Installation In Metal Stud Wall, Add	0.77	
For Installation In Wood Stud Wall (Includes Drilling), Add	1.92	
For Work In Restricted Working Space, Add	2.31	
26 05 33 13-2405 LF 3" Flexible Metallic Conduit.....	21.94	6.77
For Flexible Aluminum Conduit, Add	2.10	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.38	
For Installation In Metal Stud Wall, Add	0.92	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.31	
For Work In Restricted Working Space, Add	2.77	
26 05 33 13-2406 LF 3-1/2" Flexible Metallic Conduit .....	26.79	7.38
For Flexible Aluminum Conduit, Add	2.64	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.62	
For Installation In Metal Stud Wall, Add	1.08	
For Installation In Wood Stud Wall (Includes Drilling), Add	2.69	
For Work In Restricted Working Space, Add	3.23	
26 05 33 13-2407 LF 4" Flexible Metallic Conduit.....	30.78	8.62
For Flexible Aluminum Conduit, Add	3.05	
For Installation In Concrete Beam, Slab, Etc. (Excludes Concrete), Add	1.85	
For Installation In Metal Stud Wall, Add	1.23	
For Installation In Wood Stud Wall (Includes Drilling), Add	3.08	
For Work In Restricted Working Space, Add	3.69	
<b>26 05 33 13-2408 Plain Squeeze Type Straight Connector</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2409 EA 3/8" Flexible Straight Connectors, Plain.....	8.87	4.92
For Work In Restricted Working Space, Add	2.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.08	
26 05 33 13-2410 EA 1/2" Flexible Straight Connectors, Plain.....	10.78	5.54
For Work In Restricted Working Space, Add	2.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.31	
26 05 33 13-2411 EA 3/4" Flexible Straight Connectors, Plain.....	12.49	6.77
For Work In Restricted Working Space, Add	2.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.77	
26 05 33 13-2412 EA 1" Flexible Straight Connectors, Plain.....	19.45	7.38
For Work In Restricted Working Space, Add	3.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.69	
26 05 33 13-2413 EA 1-1/4" Flexible Straight Connectors, Plain .....	27.10	8.62
For Work In Restricted Working Space, Add	4.62	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 05 33 13-2414 EA 1-1/2" Flexible Straight Connectors, Plain .....	35.49	10.46
For Work In Restricted Working Space, Add	5.77	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.77	
26 05 33 13-2415 EA 2" Flexible Straight Connectors, Plain.....	46.20	10.46
For Work In Restricted Working Space, Add	6.92	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 05 33 13-2416 EA 2-1/2" Flexible Straight Connectors, Plain .....	72.36	12.92
For Work In Restricted Working Space, Add	8.08	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.08	
26 05 33 13-2417 EA 3" Flexible Straight Connectors, Plain.....	93.76	14.15
For Work In Restricted Working Space, Add	9.23	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 05 33 13-2418 EA 3-1/2" Flexible Straight Connectors, Plain .....	278.26	16.61
For Work In Restricted Working Space, Add	10.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.38	
26 05 33 13-2419 EA 4" Flexible Straight Connectors, Plain.....	346.70	20.31
For Work In Restricted Working Space, Add	11.54	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
<b>26 05 33 13-2420 Insulated Throat Squeeze Type Straight Connector</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2421 EA 1/2" Flexible Straight Connectors, Insulated.....	11.85	5.54
For Work In Restricted Working Space, Add	2.31	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.31	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2422	EA	3/4" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.89 2.77 2.77	6.77
26 05 33	13-2423	EA	1" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.36 3.69 3.69	7.38
26 05 33	13-2424	EA	1-1/4" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.60 4.62 4.62	8.62
26 05 33	13-2425	EA	1-1/2" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.70 5.77 5.77	9.23
26 05 33	13-2426	EA	2" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.18 6.92 6.92	10.46
26 05 33	13-2427	EA	2-1/2" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95.86 8.08 8.08	12.92
26 05 33	13-2428	EA	3" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.46 9.23 9.23	14.15
26 05 33	13-2429	EA	3-1/2" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	320.95 10.38 10.38	16.61
26 05 33	13-2430	EA	4" Flexible Straight Connectors, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	410.89 11.54 11.54	20.31
<b>26 05 33 13-2431 Plain Squeeze Type 90 Degree Connector</b> <small>(26 05 33 13-2395)</small>					
26 05 33	13-2432	EA	3/8" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.35 2.77 2.77	6.15
26 05 33	13-2433	EA	1/2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.00 3.23 3.23	6.77
26 05 33	13-2434	EA	3/4" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.48 3.69 3.69	7.38
26 05 33	13-2435	EA	1" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.30 4.62 4.62	8.62
26 05 33	13-2436	EA	1-1/4" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42.98 5.54 5.54	9.23
26 05 33	13-2437	EA	1-1/2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	65.92 6.92 6.92	10.77
26 05 33	13-2438	EA	2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	79.14 7.85 7.85	13.23
26 05 33	13-2439	EA	2-1/2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.87 9.23 9.23	14.15
26 05 33	13-2440	EA	3" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	215.93 10.38 10.38	16.61
26 05 33	13-2441	EA	3-1/2" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	450.80 11.54 11.54	20.31
26 05 33	13-2442	EA	4" Flexible 90 Degree Connector, Plain <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	800.69 13.85 13.85	23.07
<b>26 05 33 13-2443 Insulated Throat Squeeze Type 90 Degree Connector</b> <small>(26 05 33 13-2395)</small>					
26 05 33	13-2444	EA	1/2" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.47 3.23 3.23	6.77
26 05 33	13-2445	EA	3/4" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.31 3.69 3.69	7.38
26 05 33	13-2446	EA	1" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.30 4.62 4.62	8.62
26 05 33	13-2447	EA	1-1/4" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49.46 5.54 5.54	9.23
26 05 33	13-2448	EA	1-1/2" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	77.69 6.92 6.92	10.77
26 05 33	13-2449	EA	2" Flexible 90 Degree Connector, Insulated <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.27 7.85 7.85	13.23





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2450 EA 2-1/2" Flexible 90 Degree Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	228.69 9.23 9.23	14.15
26 05 33 13-2451 EA 3" Flexible 90 Degree Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	280.74 10.38 10.38	16.61
26 05 33 13-2452 EA 3-1/2" Flexible 90 Degree Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	744.54 11.54 11.54	20.31
26 05 33 13-2453 EA 4" Flexible 90 Degree Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,108.34 13.85 13.85	23.07
<b>26 05 33 13-2454 Plain Squeeze Type 45 Degree Connector</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2455 EA 3/8" Flexible 45 Degree Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.54 2.77 2.77	6.15
26 05 33 13-2456 EA 1/2" Flexible 45 Degree Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.91 3.23 3.23	6.77
26 05 33 13-2457 EA 3/4" Flexible 45 Degree Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.61 3.69 3.69	7.38
<b>26 05 33 13-2458 Insulated Squeeze Type 45 Degree Connector</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2459 EA 3/8" Flexible 45 Degree Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.37 2.77 2.77	7.38
26 05 33 13-2460 EA 1/2" Flexible 45 Degree Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.26 3.23 3.23	6.77
26 05 33 13-2461 EA 3/4" Flexible 45 Degree Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24.53 3.69 3.69	7.38
<b>26 05 33 13-2462 Plain Screw-In Connector</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2463 EA 3/8" Flexible Steel Screw-in Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.64 2.08 2.08	4.92
26 05 33 13-2464 EA 1/2" Flexible Steel Screw-in Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.29 2.31 2.31	5.54
26 05 33 13-2465 EA 3/4" Flexible Steel Screw-in Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.44 2.77 2.77	6.77
26 05 33 13-2466 EA 1" Flexible Steel Screw-in Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.74 3.69 3.69	7.38
26 05 33 13-2467 EA 1-1/4" Flexible Steel Screw-in Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21.10 4.62 4.62	8.62
26 05 33 13-2468 EA 1-1/2" Flexible Steel Screw-in Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.87 5.77 5.77	9.23
26 05 33 13-2469 EA 2" Flexible Steel Screw-in Connector, Plain ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.88 6.92 6.92	10.46
<b>26 05 33 13-2470 Insulated Screw-In Connector</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2471 EA 3/8" Flexible Steel Screw-in Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.00 2.08 2.08	4.92
26 05 33 13-2472 EA 1/2" Flexible Steel Screw-in Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.57 2.31 2.31	5.54
26 05 33 13-2473 EA 3/4" Flexible Steel Screw-in Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.17 2.77 2.77	6.77
26 05 33 13-2474 EA 1" Flexible Steel Screw-in Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.85 3.69 3.69	7.38
26 05 33 13-2475 EA 1-1/4" Flexible Steel Screw-in Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.68 4.62 4.62	8.62
26 05 33 13-2476 EA 1-1/2" Flexible Steel Screw-in Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.76 5.77 5.77	9.23
26 05 33 13-2477 EA 2" Flexible Steel Screw-in Connector, Insulated ..... <i>For Work In Restricted Working Space, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.54 6.92 6.92	10.46

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 33 13-2478 Screw-In Coupling</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2479 EA 3/8" Flexible Steel Screw-in Coupling .....	8.98	5.54
<i>For Work In Restricted Working Space, Add</i>	2.31	
26 05 33 13-2480 EA 3/4" Flexible Steel Screw-in Coupling .....	11.59	6.77
<i>For Work In Restricted Working Space, Add</i>	2.77	
<b>26 05 33 13-2481 Flexible To Electrical Metallic Tubing (EMT) Coupling</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2482 EA 3/8" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling .....	11.31	4.92
<i>For Work In Restricted Working Space, Add</i>	2.08	
26 05 33 13-2483 EA 1/2" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling .....	15.01	5.54
<i>For Work In Restricted Working Space, Add</i>	2.31	
26 05 33 13-2484 EA 3/4" Flexible Steel To Electrical Metallic Tubing (EMT) Coupling .....	19.64	6.77
<i>For Work In Restricted Working Space, Add</i>	2.77	
<b>26 05 33 13-2485 Die Cast Squeeze Type Straight Connector</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2486 EA 3/8" Flexible Straight Connector, Die Cast .....	7.86	4.92
<i>For Work In Restricted Working Space, Add</i>	2.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.08	
26 05 33 13-2487 EA 1/2" Flexible Straight Connector, Die Cast .....	8.86	5.54
<i>For Work In Restricted Working Space, Add</i>	2.31	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.31	
26 05 33 13-2488 EA 3/4" Flexible Straight Connector, Die Cast .....	10.93	6.77
<i>For Work In Restricted Working Space, Add</i>	2.77	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.77	
26 05 33 13-2489 EA 1" Flexible Straight Connector, Die Cast .....	16.10	7.38
<i>For Work In Restricted Working Space, Add</i>	3.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.69	
26 05 33 13-2490 EA 1-1/4" Flexible Straight Connector, Die Cast .....	21.44	8.62
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 05 33 13-2491 EA 1-1/2" Flexible Straight Connector, Die Cast .....	28.71	9.23
<i>For Work In Restricted Working Space, Add</i>	5.77	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.77	
26 05 33 13-2492 EA 2" Flexible Straight Connector, Die Cast .....	36.73	10.46
<i>For Work In Restricted Working Space, Add</i>	6.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
<b>26 05 33 13-2493 Die Cast Squeeze Type 90 Degree Connector</b> <small>(26 05 33 13-2395)</small>		
26 05 33 13-2494 EA 3/8" Flexible 90 Degree Connector, Die Cast .....	10.43	6.15
<i>For Work In Restricted Working Space, Add</i>	2.77	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2.77	
26 05 33 13-2495 EA 1/2" Flexible 90 Degree Connector, Die Cast .....	12.78	6.77
<i>For Work In Restricted Working Space, Add</i>	3.23	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.23	
26 05 33 13-2496 EA 3/4" Flexible 90 Degree Connector, Die Cast .....	15.33	7.38
<i>For Work In Restricted Working Space, Add</i>	3.69	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.69	
26 05 33 13-2497 EA 1" Flexible 90 Degree Connector, Die Cast .....	23.41	8.62
<i>For Work In Restricted Working Space, Add</i>	4.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 05 33 13-2498 EA 1-1/4" Flexible 90 Degree Connector, Die Cast .....	32.45	9.23
<i>For Work In Restricted Working Space, Add</i>	5.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.54	
26 05 33 13-2499 EA 1-1/2" Flexible 90 Degree Connector, Die Cast .....	49.19	10.77
<i>For Work In Restricted Working Space, Add</i>	6.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.92	
26 05 33 13-2500 EA 2" Flexible 90 Degree Connector, Die Cast .....	58.50	13.23
<i>For Work In Restricted Working Space, Add</i>	7.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.85	
<b>26 05 33 13-2501 Flexible Liquid Tight Non-Metallic Conduit And Connectors</b> <small>(26 05 33 13-2353)</small>		
<b>26 05 33 13-2502 Flexible Liquid Tight Non-Metallic Conduit</b> <small>(26 05 33 13-2501)</small>		
26 05 33 13-2503 LF 3/8" Flexible Liquid Tight Non-Metallic Conduit .....	5.11	1.68
<i>For Work In Restricted Working Space, Add</i>	1.27	
26 05 33 13-2504 LF 1/2" Flexible Liquid Tight Non-Metallic Conduit .....	5.19	1.68
<i>For Work In Restricted Working Space, Add</i>	1.27	
26 05 33 13-2505 LF 3/4" Flexible Liquid Tight Non-Metallic Conduit .....	6.96	2.24
<i>For Work In Restricted Working Space, Add</i>	1.69	
26 05 33 13-2506 LF 1" Flexible Liquid Tight Non-Metallic Conduit .....	8.32	2.24
<i>For Work In Restricted Working Space, Add</i>	1.69	
26 05 33 13-2507 LF 1-1/4" Flexible Liquid Tight Non-Metallic Conduit .....	10.53	2.82
<i>For Work In Restricted Working Space, Add</i>	2.11	
26 05 33 13-2508 LF 1-1/2" Flexible Liquid Tight Non-Metallic Conduit .....	13.32	3.38
<i>For Work In Restricted Working Space, Add</i>	2.53	
26 05 33 13-2509 LF 2" Flexible Liquid Tight Non-Metallic Conduit .....	17.19	4.50
<i>For Work In Restricted Working Space, Add</i>	3.37	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 33 13-2510</b>				<b>Liquid Tight Non-Metallic Straight Connector</b> <small>(26 05 33 13-2501)</small>		
26 05 33 13-2511	EA			3/8" Liquid Tight Non-Metallic Straight Connector .....	14.52	4.50
				<i>For Work In Restricted Working Space, Add</i>	3.37	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.37	
26 05 33 13-2512	EA			1/2" Liquid Tight Non-Metallic Straight Connector .....	14.52	4.50
				<i>For Work In Restricted Working Space, Add</i>	3.37	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.37	
26 05 33 13-2513	EA			3/4" Liquid Tight Non-Metallic Straight Connector .....	17.51	5.06
				<i>For Work In Restricted Working Space, Add</i>	3.90	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.90	
26 05 33 13-2514	EA			1" Liquid Tight Non-Metallic Straight Connector .....	21.36	5.62
				<i>For Work In Restricted Working Space, Add</i>	4.22	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.22	
26 05 33 13-2515	EA			1-1/4" Liquid Tight Non-Metallic Straight Connector .....	28.56	6.18
				<i>For Work In Restricted Working Space, Add</i>	4.64	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33 13-2516	EA			1-1/2" Liquid Tight Non-Metallic Straight Connector .....	35.10	6.74
				<i>For Work In Restricted Working Space, Add</i>	5.06	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33 13-2517	EA			2" Liquid Tight Non-Metallic Straight Connector .....	53.14	7.88
				<i>For Work In Restricted Working Space, Add</i>	5.90	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.90	
<b>26 05 33 13-2518</b>				<b>Liquid Tight Non-Metallic 90 Degree Angle Connector</b> <small>(26 05 33 13-2501)</small>		
26 05 33 13-2519	EA			3/8" Liquid Tight Non-Metallic 90 Degree Angle Connector .....	20.80	6.18
				<i>For Work In Restricted Working Space, Add</i>	4.64	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33 13-2520	EA			1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector .....	20.80	6.18
				<i>For Work In Restricted Working Space, Add</i>	4.64	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33 13-2521	EA			3/4" Liquid Tight Non-Metallic 90 Degree Angle Connector .....	25.08	6.74
				<i>For Work In Restricted Working Space, Add</i>	5.06	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33 13-2522	EA			1" Liquid Tight Non-Metallic 90 Degree Angle Connector .....	34.51	7.88
				<i>For Work In Restricted Working Space, Add</i>	5.90	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.90	
26 05 33 13-2523	EA			1-1/4" Liquid Tight Non-Metallic 90 Degree Angle Connector .....	35.84	8.44
				<i>For Work In Restricted Working Space, Add</i>	6.32	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-2524	EA			1-1/2" Liquid Tight Non-Metallic 90 Degree Angle Connector .....	54.14	9.00
				<i>For Work In Restricted Working Space, Add</i>	6.75	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-2525	EA			2" Liquid Tight Non-Metallic 90 Degree Angle Connector .....	71.61	10.12
				<i>For Work In Restricted Working Space, Add</i>	7.59	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.59	
<b>26 05 33 13-2526</b>				<b>Liquid Tight Non-Metallic 45 Degree Angle Connector</b> <small>(26 05 33 13-2501)</small>		
26 05 33 13-2527	EA			3/8" Liquid Tight Non-Metallic 45 Degree Angle Connector .....	20.80	6.18
				<i>For Work In Restricted Working Space, Add</i>	4.64	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33 13-2528	EA			1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....	20.80	6.18
				<i>For Work In Restricted Working Space, Add</i>	4.64	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.64	
26 05 33 13-2529	EA			3/4" Liquid Tight Non-Metallic 45 Degree Angle Connector .....	25.08	6.74
				<i>For Work In Restricted Working Space, Add</i>	5.06	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.06	
26 05 33 13-2530	EA			1" Liquid Tight Non-Metallic 45 Degree Angle Connector .....	34.51	7.88
				<i>For Work In Restricted Working Space, Add</i>	5.90	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.90	
26 05 33 13-2531	EA			1-1/4" Liquid Tight Non-Metallic 45 Degree Angle Connector .....	35.84	8.44
				<i>For Work In Restricted Working Space, Add</i>	6.32	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.32	
26 05 33 13-2532	EA			1-1/2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....	54.14	9.00
				<i>For Work In Restricted Working Space, Add</i>	6.75	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.75	
26 05 33 13-2533	EA			2" Liquid Tight Non-Metallic 45 Degree Angle Connector .....	71.61	10.12
				<i>For Work In Restricted Working Space, Add</i>	7.59	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7.59	
<b>26 05 33 13-2534</b>				<b>Blue ENT Electrical Non-Metallic Tubing</b> <small>(26 05 33 13-2533)</small>		
				Note: Carlon - FLEX-PLUS.		
<b>26 05 33 13-2535</b>				<b>Blue ENT Electrical Non-Metallic Tubing</b> <small>(26 05 33 13-2534)</small>		
26 05 33 13-2536	LF			1/2" Blue ENT Electrical Non-Metallic Tubing .....	6.18	1.84
				<i>For Work In Restricted Working Space, Add</i>	1.39	
26 05 33 13-2537	LF			3/4" Blue ENT Electrical Non-Metallic Tubing .....	8.32	2.46
				<i>For Work In Restricted Working Space, Add</i>	1.85	
26 05 33 13-2538	LF			1" Blue ENT Electrical Non-Metallic Tubing .....	9.66	2.46
				<i>For Work In Restricted Working Space, Add</i>	1.85	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2539	<b>Terminal Adapter</b> <small>(26 05 33 13-2534)</small>		
26 05 33 13-2540	EA 1/2" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	14.86	4.92
	<i>For Work In Restricted Working Space, Add</i>	3.69	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.69	
26 05 33 13-2541	EA 3/4" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	18.52	5.54
	<i>For Work In Restricted Working Space, Add</i>	4.15	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.15	
26 05 33 13-2542	EA 1" Quick Connect Terminal Adapter For Blue ENT Electrical Non-Metallic Tubing.....	21.41	6.15
	<i>For Work In Restricted Working Space, Add</i>	4.62	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 05 33 13-2543	<b>Coupling</b> <small>(26 05 33 13-2534)</small>		
26 05 33 13-2544	EA 1/2" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	14.53	4.92
	<i>For Work In Restricted Working Space, Add</i>	3.69	
26 05 33 13-2545	EA 3/4" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	16.74	5.54
	<i>For Work In Restricted Working Space, Add</i>	4.15	
26 05 33 13-2546	EA 1" Quick Connect Coupling For Blue ENT Electrical Non-Metallic Tubing.....	19.73	6.15
	<i>For Work In Restricted Working Space, Add</i>	4.62	
26 05 33 13-2547	<b>Metallic Conduit Bodies</b> <small>(26 05 33 13-0058)</small>		
26 05 33 13-2548	<b>Threaded, Cast Aluminum Conduit Body</b> <small>(26 05 33 13-2547)</small>		
	Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), Intermediate Metal Conduit (IMC), or Aluminum Rigid Conduit (ARC)		
26 05 33 13-2549	<b>Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2548)</small>		
26 05 33 13-2550	EA 1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	76.84	26.98
	<i>For Mogul LB, Add</i>	3.65	
	<i>For Work In Restricted Working Space, Add</i>	20.24	
	<i>For Elevated Installation &gt;10' To 15', Add</i>	6.75	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	13.49	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	16.87	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	23.61	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	26.99	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	33.74	
	<i>For Elevated Installation &gt;40', Add</i>	37.11	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.24	
26 05 33 13-2551	EA 3/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	90.03	30.92
	<i>For Mogul LB, Add</i>	5.68	
	<i>For Work In Restricted Working Space, Add</i>	23.19	
	<i>For Elevated Installation &gt;10' To 15', Add</i>	7.73	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	15.46	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	19.33	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	27.06	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	30.92	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	38.65	
	<i>For Elevated Installation &gt;40', Add</i>	42.52	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.19	
26 05 33 13-2552	EA 1" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	108.07	35.98
	<i>For Mogul LB, Add</i>	9.09	
	<i>For Work In Restricted Working Space, Add</i>	26.99	
	<i>For Elevated Installation &gt;10' To 15', Add</i>	9.00	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	17.99	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	22.49	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	31.48	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	35.98	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	44.98	
	<i>For Elevated Installation &gt;40', Add</i>	49.47	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.99	
26 05 33 13-2553	EA 1-1/4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	129.67	41.04
	<i>For Mogul LB, Add</i>	15.16	
	<i>For Work In Restricted Working Space, Add</i>	30.78	
	<i>For Elevated Installation &gt;10' To 15', Add</i>	10.26	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	20.52	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	25.65	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	35.91	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	41.04	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	51.31	
	<i>For Elevated Installation &gt;40', Add</i>	56.44	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.78	
26 05 33 13-2554	EA 1-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	147.36	44.98
	<i>For Mogul LB, Add</i>	20.56	
	<i>For Work In Restricted Working Space, Add</i>	33.74	
	<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
	<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
	<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
	<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
	<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
	<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
	<i>For Elevated Installation &gt;40', Add</i>	61.85	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2555 EA 2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	191.32	53.97
<i>For Mogul LB, Add</i>	35.55	
<i>For Work In Restricted Working Space, Add</i>	40.48	
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.49	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.99	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.73	
<i>For Elevated Installation &gt;25' To 30', Add</i>	47.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	53.97	
<i>For Elevated Installation &gt;35' To 40', Add</i>	67.47	
<i>For Elevated Installation &gt;40', Add</i>	74.21	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.48	
26 05 33 13-2556 EA 2-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	314.55	75.90
<i>For Mogul LB, Add</i>	84.12	
<i>For Work In Restricted Working Space, Add</i>	56.92	
<i>For Elevated Installation &gt;10' To 15', Add</i>	18.97	
<i>For Elevated Installation &gt;15' To 20', Add</i>	37.95	
<i>For Elevated Installation &gt;20' To 25', Add</i>	47.44	
<i>For Elevated Installation &gt;25' To 30', Add</i>	66.41	
<i>For Elevated Installation &gt;30' To 35', Add</i>	75.90	
<i>For Elevated Installation &gt;35' To 40', Add</i>	94.87	
<i>For Elevated Installation &gt;40', Add</i>	104.36	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.92	
26 05 33 13-2557 EA 3" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	414.15	101.19
<i>For Mogul LB, Add</i>	108.21	
<i>For Work In Restricted Working Space, Add</i>	75.90	
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.30	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.55	
<i>For Elevated Installation &gt;30' To 35', Add</i>	101.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.50	
<i>For Elevated Installation &gt;40', Add</i>	139.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.90	
26 05 33 13-2558 EA 3-1/2" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	546.71	126.49
<i>For Mogul LB, Add</i>	157.04	
<i>For Work In Restricted Working Space, Add</i>	94.87	
<i>For Elevated Installation &gt;10' To 15', Add</i>	31.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	63.25	
<i>For Elevated Installation &gt;20' To 25', Add</i>	79.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	110.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	126.50	
<i>For Elevated Installation &gt;35' To 40', Add</i>	158.12	
<i>For Elevated Installation &gt;40', Add</i>	173.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.87	
26 05 33 13-2559 EA 4" Type LB, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	705.36	154.05
<i>For Mogul LB, Add</i>	220.93	
<i>For Work In Restricted Working Space, Add</i>	115.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	38.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	77.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	96.28	
<i>For Elevated Installation &gt;25' To 30', Add</i>	134.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	154.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	192.56	
<i>For Elevated Installation &gt;40', Add</i>	211.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.53	
<b>26 05 33 13-2560 Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2548)</small></b>		
26 05 33 13-2561 EA 1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	77.98	26.98
<i>For Mogul LB, Add</i>	4.51	
<i>For Work In Restricted Working Space, Add</i>	20.24	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.75	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.87	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.61	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.99	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.74	
<i>For Elevated Installation &gt;40', Add</i>	37.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.24	
26 05 33 13-2562 EA 3/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	91.14	30.92
<i>For Mogul LB, Add</i>	6.52	
<i>For Work In Restricted Working Space, Add</i>	23.19	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.46	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.33	
<i>For Elevated Installation &gt;25' To 30', Add</i>	27.06	
<i>For Elevated Installation &gt;30' To 35', Add</i>	30.92	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.65	
<i>For Elevated Installation &gt;40', Add</i>	42.52	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.19	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2563	EA	1" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	110.31	35.98
			<i>For Mogul LB, Add</i>	10.77	
			<i>For Work In Restricted Working Space, Add</i>	26.99	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	9.00	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.99	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.49	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	31.48	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.98	
			<i>For Elevated Installation &gt;40', Add</i>	49.47	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.99	
26 05 33	13-2564	EA	1-1/4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	132.40	41.04
			<i>For Mogul LB, Add</i>	17.21	
			<i>For Work In Restricted Working Space, Add</i>	30.78	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.26	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.52	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.91	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	41.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	51.31	
			<i>For Elevated Installation &gt;40', Add</i>	56.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.78	
26 05 33	13-2565	EA	1-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	152.01	44.98
			<i>For Mogul LB, Add</i>	24.05	
			<i>For Work In Restricted Working Space, Add</i>	33.74	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
			<i>For Elevated Installation &gt;40', Add</i>	61.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.74	
26 05 33	13-2566	EA	2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	201.29	53.97
			<i>For Mogul LB, Add</i>	43.02	
			<i>For Work In Restricted Working Space, Add</i>	40.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.49	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	26.99	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	33.73	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	47.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	53.97	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	67.47	
			<i>For Elevated Installation &gt;40', Add</i>	74.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.48	
26 05 33	13-2567	EA	2-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	309.52	75.90
			<i>For Mogul LB, Add</i>	80.35	
			<i>For Work In Restricted Working Space, Add</i>	56.92	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	18.97	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	37.95	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	47.44	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	66.41	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	75.90	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	94.87	
			<i>For Elevated Installation &gt;40', Add</i>	104.36	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.92	
26 05 33	13-2568	EA	3" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	397.23	101.19
			<i>For Mogul LB, Add</i>	95.52	
			<i>For Work In Restricted Working Space, Add</i>	75.90	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	25.30	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	50.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	63.25	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	88.55	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	101.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	126.50	
			<i>For Elevated Installation &gt;40', Add</i>	139.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.90	
26 05 33	13-2569	EA	3-1/2" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	561.12	126.49
			<i>For Mogul LB, Add</i>	167.85	
			<i>For Work In Restricted Working Space, Add</i>	94.87	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	31.62	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	63.25	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	79.06	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	110.68	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	126.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	158.12	
			<i>For Elevated Installation &gt;40', Add</i>	173.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2570 EA 4" Type LL Or LR, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	734.83	154.05
<i>For Mogul LB, Add</i>	243.03	
<i>For Work In Restricted Working Space, Add</i>	115.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	38.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	77.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	96.28	
<i>For Elevated Installation &gt;25' To 30', Add</i>	134.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	154.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	192.56	
<i>For Elevated Installation &gt;40', Add</i>	211.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.53	
26 05 33 13-2571 Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover <sup>(26 05</sup>		
<small>33 13-2546)</small>		
26 05 33 13-2572 EA 1 1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	89.73	30.92
<i>For Work In Restricted Working Space, Add</i>	23.19	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.46	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.33	
<i>For Elevated Installation &gt;25' To 30', Add</i>	27.06	
<i>For Elevated Installation &gt;30' To 35', Add</i>	30.92	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.65	
<i>For Elevated Installation &gt;40', Add</i>	42.52	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.19	
26 05 33 13-2573 EA 3/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	105.95	35.98
<i>For Work In Restricted Working Space, Add</i>	26.99	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.00	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.99	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.49	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.48	
<i>For Elevated Installation &gt;30' To 35', Add</i>	35.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	44.98	
<i>For Elevated Installation &gt;40', Add</i>	49.47	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.99	
26 05 33 13-2574 EA 1" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	121.04	39.36
<i>For Work In Restricted Working Space, Add</i>	29.52	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.84	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.68	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.60	
<i>For Elevated Installation &gt;25' To 30', Add</i>	34.44	
<i>For Elevated Installation &gt;30' To 35', Add</i>	39.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	49.20	
<i>For Elevated Installation &gt;40', Add</i>	54.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.52	
26 05 33 13-2575 EA 1-1/4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	146.78	44.98
<i>For Work In Restricted Working Space, Add</i>	33.74	
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
<i>For Elevated Installation &gt;40', Add</i>	61.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.74	
26 05 33 13-2576 EA 1-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	168.30	49.47
<i>For Work In Restricted Working Space, Add</i>	37.11	
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.37	
<i>For Elevated Installation &gt;15' To 20', Add</i>	24.74	
<i>For Elevated Installation &gt;20' To 25', Add</i>	30.92	
<i>For Elevated Installation &gt;25' To 30', Add</i>	43.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	49.48	
<i>For Elevated Installation &gt;35' To 40', Add</i>	61.85	
<i>For Elevated Installation &gt;40', Add</i>	68.03	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.11	
26 05 33 13-2577 EA 2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	221.08	57.91
<i>For Work In Restricted Working Space, Add</i>	43.43	
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.48	
<i>For Elevated Installation &gt;15' To 20', Add</i>	28.95	
<i>For Elevated Installation &gt;20' To 25', Add</i>	36.19	
<i>For Elevated Installation &gt;25' To 30', Add</i>	50.67	
<i>For Elevated Installation &gt;30' To 35', Add</i>	57.91	
<i>For Elevated Installation &gt;35' To 40', Add</i>	72.39	
<i>For Elevated Installation &gt;40', Add</i>	79.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.43	
26 05 33 13-2578 EA 2-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover .....	345.65	84.33
<i>For Work In Restricted Working Space, Add</i>	63.25	
<i>For Elevated Installation &gt;10' To 15', Add</i>	21.08	
<i>For Elevated Installation &gt;15' To 20', Add</i>	42.16	
<i>For Elevated Installation &gt;20' To 25', Add</i>	52.71	
<i>For Elevated Installation &gt;25' To 30', Add</i>	73.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	84.33	
<i>For Elevated Installation &gt;35' To 40', Add</i>	105.41	
<i>For Elevated Installation &gt;40', Add</i>	115.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.25	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2579	EA	3" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	446.92	109.63
			<i>For Work In Restricted Working Space, Add</i>	82.22	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	27.41	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	54.82	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	68.52	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	95.93	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	109.63	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	137.04	
			<i>For Elevated Installation &gt;40', Add</i>	150.74	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.22	
26 05 33	13-2580	EA	3-1/2" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	696.31	134.93
			<i>For Work In Restricted Working Space, Add</i>	101.20	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	33.73	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	67.47	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	84.33	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	118.07	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	134.93	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	168.67	
			<i>For Elevated Installation &gt;40', Add</i>	185.53	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.20	
26 05 33	13-2581	EA	4" Type T, Threaded, Three Hub Cast Aluminum Conduit Body With Cover	801.45	162.48
			<i>For Work In Restricted Working Space, Add</i>	121.86	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	40.62	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	81.24	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	101.55	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	142.17	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	162.48	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	203.10	
			<i>For Elevated Installation &gt;40', Add</i>	223.40	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.86	
26 05 33	13-2582		Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover <small>(26 05 33 13-2548)</small>		
26 05 33	13-2583	EA	1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	78.22	26.98
			<i>For Work In Restricted Working Space, Add</i>	20.24	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.75	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	13.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.87	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	23.61	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	26.99	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	33.74	
			<i>For Elevated Installation &gt;40', Add</i>	37.11	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.24	
26 05 33	13-2584	EA	3/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	90.36	30.92
			<i>For Work In Restricted Working Space, Add</i>	23.19	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.73	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.46	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	19.33	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	27.06	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.92	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	38.65	
			<i>For Elevated Installation &gt;40', Add</i>	42.52	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.19	
26 05 33	13-2585	EA	1" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	108.00	35.42
			<i>For Work In Restricted Working Space, Add</i>	26.57	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.86	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.14	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.28	
			<i>For Elevated Installation &gt;40', Add</i>	48.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.57	
26 05 33	13-2586	EA	1-1/4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	131.32	41.04
			<i>For Work In Restricted Working Space, Add</i>	30.78	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.26	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.52	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.91	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	41.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	51.31	
			<i>For Elevated Installation &gt;40', Add</i>	56.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.78	
26 05 33	13-2587	EA	1-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover	146.60	44.98
			<i>For Work In Restricted Working Space, Add</i>	33.74	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
			<i>For Elevated Installation &gt;40', Add</i>	61.85	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.74	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2588 EA 2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	191.40	53.97
<i>For Work In Restricted Working Space, Add</i>	40.48	
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.49	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.99	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.73	
<i>For Elevated Installation &gt;25' To 30', Add</i>	47.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	53.97	
<i>For Elevated Installation &gt;35' To 40', Add</i>	67.47	
<i>For Elevated Installation &gt;40', Add</i>	74.21	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.48	
26 05 33 13-2589 EA 2-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	305.28	75.90
<i>For Work In Restricted Working Space, Add</i>	56.92	
<i>For Elevated Installation &gt;10' To 15', Add</i>	18.97	
<i>For Elevated Installation &gt;15' To 20', Add</i>	37.95	
<i>For Elevated Installation &gt;20' To 25', Add</i>	47.44	
<i>For Elevated Installation &gt;25' To 30', Add</i>	66.41	
<i>For Elevated Installation &gt;30' To 35', Add</i>	75.90	
<i>For Elevated Installation &gt;35' To 40', Add</i>	94.87	
<i>For Elevated Installation &gt;40', Add</i>	104.36	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.92	
26 05 33 13-2590 EA 3" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	394.53	101.19
<i>For Work In Restricted Working Space, Add</i>	75.90	
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.30	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.55	
<i>For Elevated Installation &gt;30' To 35', Add</i>	101.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.50	
<i>For Elevated Installation &gt;40', Add</i>	139.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.90	
26 05 33 13-2591 EA 3-1/2" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	552.46	126.49
<i>For Work In Restricted Working Space, Add</i>	94.87	
<i>For Elevated Installation &gt;10' To 15', Add</i>	31.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	63.25	
<i>For Elevated Installation &gt;20' To 25', Add</i>	79.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	110.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	126.50	
<i>For Elevated Installation &gt;35' To 40', Add</i>	158.12	
<i>For Elevated Installation &gt;40', Add</i>	173.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.87	
26 05 33 13-2592 EA 4" Type C, Threaded, Two Hub Cast Aluminum Conduit Body With Cover .....	708.07	154.05
<i>For Work In Restricted Working Space, Add</i>	115.53	
<i>For Elevated Installation &gt;10' To 15', Add</i>	38.51	
<i>For Elevated Installation &gt;15' To 20', Add</i>	77.02	
<i>For Elevated Installation &gt;20' To 25', Add</i>	96.28	
<i>For Elevated Installation &gt;25' To 30', Add</i>	134.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	154.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	192.56	
<i>For Elevated Installation &gt;40', Add</i>	211.81	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.53	
<b>26 05 33 13-2593 Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2548)</small>		
26 05 33 13-2594 EA 1 1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....	103.81	35.42
<i>For Work In Restricted Working Space, Add</i>	26.57	
<i>For Elevated Installation &gt;10' To 15', Add</i>	8.86	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.71	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.14	
<i>For Elevated Installation &gt;25' To 30', Add</i>	30.99	
<i>For Elevated Installation &gt;30' To 35', Add</i>	35.42	
<i>For Elevated Installation &gt;35' To 40', Add</i>	44.28	
<i>For Elevated Installation &gt;40', Add</i>	48.70	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.57	
26 05 33 13-2595 EA 3/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....	119.03	39.36
<i>For Work In Restricted Working Space, Add</i>	29.52	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.84	
<i>For Elevated Installation &gt;15' To 20', Add</i>	19.68	
<i>For Elevated Installation &gt;20' To 25', Add</i>	24.60	
<i>For Elevated Installation &gt;25' To 30', Add</i>	34.44	
<i>For Elevated Installation &gt;30' To 35', Add</i>	39.36	
<i>For Elevated Installation &gt;35' To 40', Add</i>	49.20	
<i>For Elevated Installation &gt;40', Add</i>	54.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.52	
26 05 33 13-2596 EA 1" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover .....	143.14	43.29
<i>For Work In Restricted Working Space, Add</i>	32.47	
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.82	
<i>For Elevated Installation &gt;15' To 20', Add</i>	21.65	
<i>For Elevated Installation &gt;20' To 25', Add</i>	27.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	37.88	
<i>For Elevated Installation &gt;30' To 35', Add</i>	43.29	
<i>For Elevated Installation &gt;35' To 40', Add</i>	54.12	
<i>For Elevated Installation &gt;40', Add</i>	59.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.47	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2597 EA 1-1/4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	164.80	49.47
For Work In Restricted Working Space, Add	37.11	
For Elevated Installation >10' To 15', Add	12.37	
For Elevated Installation >15' To 20', Add	24.74	
For Elevated Installation >20' To 25', Add	30.92	
For Elevated Installation >25' To 30', Add	43.29	
For Elevated Installation >30' To 35', Add	49.48	
For Elevated Installation >35' To 40', Add	61.85	
For Elevated Installation >40', Add	68.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.11	
26 05 33 13-2598 EA 1-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	206.93	53.97
For Work In Restricted Working Space, Add	40.48	
For Elevated Installation >10' To 15', Add	13.49	
For Elevated Installation >15' To 20', Add	26.99	
For Elevated Installation >20' To 25', Add	33.73	
For Elevated Installation >25' To 30', Add	47.23	
For Elevated Installation >30' To 35', Add	53.97	
For Elevated Installation >35' To 40', Add	67.47	
For Elevated Installation >40', Add	74.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.48	
26 05 33 13-2599 EA 2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	250.76	66.34
For Work In Restricted Working Space, Add	49.76	
For Elevated Installation >10' To 15', Add	16.59	
For Elevated Installation >15' To 20', Add	33.17	
For Elevated Installation >20' To 25', Add	41.46	
For Elevated Installation >25' To 30', Add	58.05	
For Elevated Installation >30' To 35', Add	66.34	
For Elevated Installation >35' To 40', Add	82.93	
For Elevated Installation >40', Add	91.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.76	
26 05 33 13-2600 EA 2-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	453.82	97.26
For Work In Restricted Working Space, Add	72.95	
For Elevated Installation >10' To 15', Add	24.32	
For Elevated Installation >15' To 20', Add	48.63	
For Elevated Installation >20' To 25', Add	60.79	
For Elevated Installation >25' To 30', Add	85.11	
For Elevated Installation >30' To 35', Add	97.26	
For Elevated Installation >35' To 40', Add	121.58	
For Elevated Installation >40', Add	133.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.95	
26 05 33 13-2601 EA 3" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	563.03	126.49
For Work In Restricted Working Space, Add	94.87	
For Elevated Installation >10' To 15', Add	31.62	
For Elevated Installation >15' To 20', Add	63.25	
For Elevated Installation >20' To 25', Add	79.06	
For Elevated Installation >25' To 30', Add	110.68	
For Elevated Installation >30' To 35', Add	126.50	
For Elevated Installation >35' To 40', Add	158.12	
For Elevated Installation >40', Add	173.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.87	
26 05 33 13-2602 EA 3-1/2" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	791.56	156.29
For Work In Restricted Working Space, Add	118.07	
For Elevated Installation >10' To 15', Add	39.36	
For Elevated Installation >15' To 20', Add	78.71	
For Elevated Installation >20' To 25', Add	98.39	
For Elevated Installation >25' To 30', Add	137.74	
For Elevated Installation >30' To 35', Add	157.42	
For Elevated Installation >35' To 40', Add	196.78	
For Elevated Installation >40', Add	216.45	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.07	
26 05 33 13-2603 EA 4" Type X, Threaded, Four Hub Cast Aluminum Conduit Body With Cover.....	955.00	187.78
For Work In Restricted Working Space, Add	140.83	
For Elevated Installation >10' To 15', Add	46.94	
For Elevated Installation >15' To 20', Add	93.89	
For Elevated Installation >20' To 25', Add	117.36	
For Elevated Installation >25' To 30', Add	164.30	
For Elevated Installation >30' To 35', Add	187.78	
For Elevated Installation >35' To 40', Add	234.72	
For Elevated Installation >40', Add	258.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.83	
26 05 33 13-2604 Threaded, Malleable Iron Conduit Body <small>(26 05 33 13-2547)</small>		
Note: For use with Rigid Galvanized Steel (RGS), Galvanized Rigid Steel Conduit (GRC), or Intermediate Metal Conduit (IMC)		
26 05 33 13-2605 Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover <small>(26 05 33 13-2604)</small>		
26 05 33 13-2606 EA 1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	80.04	26.98
For Work In Restricted Working Space, Add	20.24	
For Elevated Installation >10' To 15', Add	6.75	
For Elevated Installation >15' To 20', Add	13.49	
For Elevated Installation >20' To 25', Add	16.87	
For Elevated Installation >25' To 30', Add	23.61	
For Elevated Installation >30' To 35', Add	26.99	
For Elevated Installation >35' To 40', Add	33.74	
For Elevated Installation >40', Add	37.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	20.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2607 EA 3/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	92.70	30.92
<i>For Work In Restricted Working Space, Add</i>	23.19	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.46	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.32	
<i>For Elevated Installation &gt;25' To 30', Add</i>	27.05	
<i>For Elevated Installation &gt;30' To 35', Add</i>	30.92	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.65	
<i>For Elevated Installation &gt;40', Add</i>	42.51	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.19	
26 05 33 13-2608 EA 1" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	112.91	35.98
<i>For Work In Restricted Working Space, Add</i>	26.99	
<i>For Elevated Installation &gt;10' To 15', Add</i>	9.00	
<i>For Elevated Installation &gt;15' To 20', Add</i>	17.99	
<i>For Elevated Installation &gt;20' To 25', Add</i>	22.49	
<i>For Elevated Installation &gt;25' To 30', Add</i>	31.48	
<i>For Elevated Installation &gt;30' To 35', Add</i>	35.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	44.98	
<i>For Elevated Installation &gt;40', Add</i>	49.47	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.99	
26 05 33 13-2609 EA 1-1/4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	143.79	41.04
<i>For Work In Restricted Working Space, Add</i>	30.78	
<i>For Elevated Installation &gt;10' To 15', Add</i>	10.26	
<i>For Elevated Installation &gt;15' To 20', Add</i>	20.52	
<i>For Elevated Installation &gt;20' To 25', Add</i>	25.65	
<i>For Elevated Installation &gt;25' To 30', Add</i>	35.91	
<i>For Elevated Installation &gt;30' To 35', Add</i>	41.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	51.30	
<i>For Elevated Installation &gt;40', Add</i>	56.43	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.78	
26 05 33 13-2610 EA 1-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	162.97	44.98
<i>For Work In Restricted Working Space, Add</i>	33.74	
<i>For Elevated Installation &gt;10' To 15', Add</i>	11.25	
<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
<i>For Elevated Installation &gt;25' To 30', Add</i>	39.36	
<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
<i>For Elevated Installation &gt;35' To 40', Add</i>	56.23	
<i>For Elevated Installation &gt;40', Add</i>	61.85	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.74	
26 05 33 13-2611 EA 2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	219.48	53.97
<i>For Work In Restricted Working Space, Add</i>	40.48	
<i>For Elevated Installation &gt;10' To 15', Add</i>	13.49	
<i>For Elevated Installation &gt;15' To 20', Add</i>	26.99	
<i>For Elevated Installation &gt;20' To 25', Add</i>	33.73	
<i>For Elevated Installation &gt;25' To 30', Add</i>	47.23	
<i>For Elevated Installation &gt;30' To 35', Add</i>	53.97	
<i>For Elevated Installation &gt;35' To 40', Add</i>	67.47	
<i>For Elevated Installation &gt;40', Add</i>	74.21	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.48	
26 05 33 13-2612 EA 2-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	362.82	75.90
<i>For Work In Restricted Working Space, Add</i>	56.93	
<i>For Elevated Installation &gt;10' To 15', Add</i>	18.98	
<i>For Elevated Installation &gt;15' To 20', Add</i>	37.95	
<i>For Elevated Installation &gt;20' To 25', Add</i>	47.44	
<i>For Elevated Installation &gt;25' To 30', Add</i>	66.41	
<i>For Elevated Installation &gt;30' To 35', Add</i>	75.90	
<i>For Elevated Installation &gt;35' To 40', Add</i>	94.88	
<i>For Elevated Installation &gt;40', Add</i>	104.36	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.93	
26 05 33 13-2613 EA 3" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	511.18	101.19
<i>For Work In Restricted Working Space, Add</i>	75.90	
<i>For Elevated Installation &gt;10' To 15', Add</i>	25.30	
<i>For Elevated Installation &gt;15' To 20', Add</i>	50.60	
<i>For Elevated Installation &gt;20' To 25', Add</i>	63.25	
<i>For Elevated Installation &gt;25' To 30', Add</i>	88.55	
<i>For Elevated Installation &gt;30' To 35', Add</i>	101.20	
<i>For Elevated Installation &gt;35' To 40', Add</i>	126.50	
<i>For Elevated Installation &gt;40', Add</i>	139.15	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.90	
26 05 33 13-2614 EA 3-1/2" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover .....	698.47	126.49
<i>For Work In Restricted Working Space, Add</i>	94.87	
<i>For Elevated Installation &gt;10' To 15', Add</i>	31.62	
<i>For Elevated Installation &gt;15' To 20', Add</i>	63.25	
<i>For Elevated Installation &gt;20' To 25', Add</i>	79.06	
<i>For Elevated Installation &gt;25' To 30', Add</i>	110.68	
<i>For Elevated Installation &gt;30' To 35', Add</i>	126.50	
<i>For Elevated Installation &gt;35' To 40', Add</i>	158.12	
<i>For Elevated Installation &gt;40', Add</i>	173.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.87	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2615	EA	4" Type LB, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	837.11 115.54 38.51 77.02 96.28 134.79 154.05 192.56 211.82 115.54	154.05
<b>26 05 33 13-2616 Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover</b> <small>(26 05 33 13-2604)</small>					
26 05 33	13-2617	EA	1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.94 20.24	26.98
26 05 33	13-2618	EA	3/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	93.55 23.19	30.92
26 05 33	13-2619	EA	1" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.35 26.99	35.98
26 05 33	13-2620	EA	1-1/4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	146.76 30.78	41.04
26 05 33	13-2621	EA	1-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.61 33.74	44.98
26 05 33	13-2622	EA	2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	212.01 40.48	53.97
26 05 33	13-2623	EA	2-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	321.32 56.93	75.90
26 05 33	13-2624	EA	3" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	436.56 75.90	101.19
26 05 33	13-2625	EA	3-1/2" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	742.42 94.87	126.49
26 05 33	13-2626	EA	4" Type LL Or LR, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	869.52 115.54	154.05
<b>26 05 33 13-2627 Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover</b> <small>(26 05 33 13-2604)</small>					
26 05 33	13-2628	EA	1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	98.04 23.19 7.73 15.46 19.33 27.06 30.92 38.65 42.52 23.19	30.92
26 05 33	13-2629	EA	3/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.62 27.41 9.14 18.27 22.84 31.98 36.54 45.68 50.25 27.41	35.98
26 05 33	13-2630	EA	1" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	135.08 29.52 9.84 19.68 24.60 34.44 39.36 49.20 54.11 29.52	39.36
26 05 33	13-2631	EA	1-1/4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation &gt;10' To 15', Add</i> <i>For Elevated Installation &gt;15' To 20', Add</i> <i>For Elevated Installation &gt;20' To 25', Add</i> <i>For Elevated Installation &gt;25' To 30', Add</i> <i>For Elevated Installation &gt;30' To 35', Add</i> <i>For Elevated Installation &gt;35' To 40', Add</i> <i>For Elevated Installation &gt;40', Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.88 33.31 11.10 22.21 27.76 38.86 44.41 55.52 61.07 33.31	44.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2632 EA 1-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... 192.01		49.47
<i>For Work In Restricted Working Space, Add</i>	37.11	
<i>For Elevated Installation &gt;10' To 15', Add</i>	12.37	
<i>For Elevated Installation &gt;15' To 20', Add</i>	24.74	
<i>For Elevated Installation &gt;20' To 25', Add</i>	30.92	
<i>For Elevated Installation &gt;25' To 30', Add</i>	43.29	
<i>For Elevated Installation &gt;30' To 35', Add</i>	49.48	
<i>For Elevated Installation &gt;35' To 40', Add</i>	61.85	
<i>For Elevated Installation &gt;40', Add</i>	68.03	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37.11	
26 05 33 13-2633 EA 2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... 251.81		57.91
<i>For Work In Restricted Working Space, Add</i>	43.43	
<i>For Elevated Installation &gt;10' To 15', Add</i>	14.48	
<i>For Elevated Installation &gt;15' To 20', Add</i>	28.95	
<i>For Elevated Installation &gt;20' To 25', Add</i>	36.19	
<i>For Elevated Installation &gt;25' To 30', Add</i>	50.67	
<i>For Elevated Installation &gt;30' To 35', Add</i>	57.91	
<i>For Elevated Installation &gt;35' To 40', Add</i>	72.39	
<i>For Elevated Installation &gt;40', Add</i>	79.62	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	43.43	
26 05 33 13-2634 EA 2-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... 323.11		84.33
<i>For Work In Restricted Working Space, Add</i>	63.25	
<i>For Elevated Installation &gt;10' To 15', Add</i>	21.08	
<i>For Elevated Installation &gt;15' To 20', Add</i>	42.16	
<i>For Elevated Installation &gt;20' To 25', Add</i>	52.71	
<i>For Elevated Installation &gt;25' To 30', Add</i>	73.79	
<i>For Elevated Installation &gt;30' To 35', Add</i>	84.33	
<i>For Elevated Installation &gt;35' To 40', Add</i>	105.41	
<i>For Elevated Installation &gt;40', Add</i>	115.95	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63.25	
26 05 33 13-2635 EA 3" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... 460.68		109.63
<i>For Work In Restricted Working Space, Add</i>	82.22	
<i>For Elevated Installation &gt;10' To 15', Add</i>	27.41	
<i>For Elevated Installation &gt;15' To 20', Add</i>	54.82	
<i>For Elevated Installation &gt;20' To 25', Add</i>	68.52	
<i>For Elevated Installation &gt;25' To 30', Add</i>	95.93	
<i>For Elevated Installation &gt;30' To 35', Add</i>	109.63	
<i>For Elevated Installation &gt;35' To 40', Add</i>	137.04	
<i>For Elevated Installation &gt;40', Add</i>	150.74	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	82.22	
26 05 33 13-2636 EA 3-1/2" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... 783.80		134.93
<i>For Work In Restricted Working Space, Add</i>	101.20	
<i>For Elevated Installation &gt;10' To 15', Add</i>	33.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	67.47	
<i>For Elevated Installation &gt;20' To 25', Add</i>	84.33	
<i>For Elevated Installation &gt;25' To 30', Add</i>	118.07	
<i>For Elevated Installation &gt;30' To 35', Add</i>	134.93	
<i>For Elevated Installation &gt;35' To 40', Add</i>	168.67	
<i>For Elevated Installation &gt;40', Add</i>	185.53	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.20	
26 05 33 13-2637 EA 4" Type T, Threaded, Three Hub Malleable Iron Conduit Body With Cover ..... 909.54		162.48
<i>For Work In Restricted Working Space, Add</i>	122.28	
<i>For Elevated Installation &gt;10' To 15', Add</i>	40.76	
<i>For Elevated Installation &gt;15' To 20', Add</i>	81.52	
<i>For Elevated Installation &gt;20' To 25', Add</i>	101.90	
<i>For Elevated Installation &gt;25' To 30', Add</i>	142.66	
<i>For Elevated Installation &gt;30' To 35', Add</i>	163.04	
<i>For Elevated Installation &gt;35' To 40', Add</i>	203.80	
<i>For Elevated Installation &gt;40', Add</i>	224.18	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	122.28	
<b>26 05 33 13-2638 Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover</b> <small>(26 05 33 13-2634)</small>		
26 05 33 13-2639 EA 1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... 80.25		26.98
<i>For Work In Restricted Working Space, Add</i>	20.24	
<i>For Elevated Installation &gt;10' To 15', Add</i>	6.75	
<i>For Elevated Installation &gt;15' To 20', Add</i>	13.49	
<i>For Elevated Installation &gt;20' To 25', Add</i>	16.87	
<i>For Elevated Installation &gt;25' To 30', Add</i>	23.61	
<i>For Elevated Installation &gt;30' To 35', Add</i>	26.99	
<i>For Elevated Installation &gt;35' To 40', Add</i>	33.74	
<i>For Elevated Installation &gt;40', Add</i>	37.11	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.24	
26 05 33 13-2640 EA 3/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover ..... 96.47		30.92
<i>For Work In Restricted Working Space, Add</i>	23.19	
<i>For Elevated Installation &gt;10' To 15', Add</i>	7.73	
<i>For Elevated Installation &gt;15' To 20', Add</i>	15.46	
<i>For Elevated Installation &gt;20' To 25', Add</i>	19.33	
<i>For Elevated Installation &gt;25' To 30', Add</i>	27.06	
<i>For Elevated Installation &gt;30' To 35', Add</i>	30.92	
<i>For Elevated Installation &gt;35' To 40', Add</i>	38.65	
<i>For Elevated Installation &gt;40', Add</i>	42.52	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.19	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2641	EA		1" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	112.55	35.42
			<i>For Work In Restricted Working Space, Add</i>	26.57	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.86	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	22.14	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.99	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	35.42	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	44.28	
			<i>For Elevated Installation &gt;40', Add</i>	48.70	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.57	
26 05 33 13-2642	EA		1-1/4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	149.27	41.04
			<i>For Work In Restricted Working Space, Add</i>	30.78	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	10.26	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	20.52	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	25.65	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	35.91	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	41.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	51.31	
			<i>For Elevated Installation &gt;40', Add</i>	56.44	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30.78	
26 05 33 13-2643	EA		1-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	173.23	44.98
			<i>For Work In Restricted Working Space, Add</i>	33.73	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	11.24	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	22.49	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	28.11	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	39.35	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	44.98	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	56.22	
			<i>For Elevated Installation &gt;40', Add</i>	61.84	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.73	
26 05 33 13-2644	EA		2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	222.42	53.97
			<i>For Work In Restricted Working Space, Add</i>	40.48	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	13.49	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	26.99	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	33.73	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	47.23	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	53.97	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	67.47	
			<i>For Elevated Installation &gt;40', Add</i>	74.21	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.48	
26 05 33 13-2645	EA		2-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	506.15	142.38
			<i>For Work In Restricted Working Space, Add</i>	106.73	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	35.58	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	71.16	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	88.95	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	124.52	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	142.31	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	177.89	
			<i>For Elevated Installation &gt;40', Add</i>	195.68	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	106.73	
26 05 33 13-2646	EA		3" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	467.90	101.19
			<i>For Work In Restricted Working Space, Add</i>	75.90	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	25.30	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	50.60	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	63.25	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	88.55	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	101.20	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	126.50	
			<i>For Elevated Installation &gt;40', Add</i>	139.15	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75.90	
26 05 33 13-2647	EA		3-1/2" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	742.42	126.49
			<i>For Work In Restricted Working Space, Add</i>	94.87	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	31.62	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	63.25	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	79.06	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	110.68	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	126.50	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	158.12	
			<i>For Elevated Installation &gt;40', Add</i>	173.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.87	
26 05 33 13-2648	EA		4" Type C, Threaded, Two Hub Malleable Iron Conduit Body With Cover.....	869.49	154.05
			<i>For Work In Restricted Working Space, Add</i>	115.53	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	38.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	77.02	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	96.27	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	134.78	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	154.04	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	192.55	
			<i>For Elevated Installation &gt;40', Add</i>	211.80	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.53	

26 05 33 13-2649 Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover (26 05 33 13-2604)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2650 EA 1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	111.55	35.42
For Work In Restricted Working Space, Add	26.57	
For Elevated Installation >10' To 15', Add	8.86	
For Elevated Installation >15' To 20', Add	17.71	
For Elevated Installation >20' To 25', Add	22.14	
For Elevated Installation >25' To 30', Add	30.99	
For Elevated Installation >30' To 35', Add	35.42	
For Elevated Installation >35' To 40', Add	44.28	
For Elevated Installation >40', Add	48.70	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	26.57	
26 05 33 13-2651 EA 3/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	122.25	39.36
For Work In Restricted Working Space, Add	29.52	
For Elevated Installation >10' To 15', Add	9.84	
For Elevated Installation >15' To 20', Add	19.68	
For Elevated Installation >20' To 25', Add	24.60	
For Elevated Installation >25' To 30', Add	34.44	
For Elevated Installation >30' To 35', Add	39.36	
For Elevated Installation >35' To 40', Add	49.20	
For Elevated Installation >40', Add	54.11	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	29.52	
26 05 33 13-2652 EA 1" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	140.97	43.29
For Work In Restricted Working Space, Add	32.47	
For Elevated Installation >10' To 15', Add	10.82	
For Elevated Installation >15' To 20', Add	21.65	
For Elevated Installation >20' To 25', Add	27.06	
For Elevated Installation >25' To 30', Add	37.88	
For Elevated Installation >30' To 35', Add	43.29	
For Elevated Installation >35' To 40', Add	54.12	
For Elevated Installation >40', Add	59.53	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.47	
26 05 33 13-2653 EA 1-1/4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	166.92	49.47
For Work In Restricted Working Space, Add	37.11	
For Elevated Installation >10' To 15', Add	12.37	
For Elevated Installation >15' To 20', Add	24.74	
For Elevated Installation >20' To 25', Add	30.92	
For Elevated Installation >25' To 30', Add	43.29	
For Elevated Installation >30' To 35', Add	49.48	
For Elevated Installation >35' To 40', Add	61.85	
For Elevated Installation >40', Add	68.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	37.11	
26 05 33 13-2654 EA 1-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	191.33	53.97
For Work In Restricted Working Space, Add	40.48	
For Elevated Installation >10' To 15', Add	13.49	
For Elevated Installation >15' To 20', Add	26.99	
For Elevated Installation >20' To 25', Add	33.73	
For Elevated Installation >25' To 30', Add	47.23	
For Elevated Installation >30' To 35', Add	53.97	
For Elevated Installation >35' To 40', Add	67.47	
For Elevated Installation >40', Add	74.21	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.48	
26 05 33 13-2655 EA 2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	264.04	66.34
For Work In Restricted Working Space, Add	49.76	
For Elevated Installation >10' To 15', Add	16.59	
For Elevated Installation >15' To 20', Add	33.17	
For Elevated Installation >20' To 25', Add	41.46	
For Elevated Installation >25' To 30', Add	58.05	
For Elevated Installation >30' To 35', Add	66.34	
For Elevated Installation >35' To 40', Add	82.93	
For Elevated Installation >40', Add	91.22	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	49.76	
26 05 33 13-2656 EA 2-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	418.47	97.26
For Work In Restricted Working Space, Add	72.95	
For Elevated Installation >10' To 15', Add	24.32	
For Elevated Installation >15' To 20', Add	48.63	
For Elevated Installation >20' To 25', Add	60.79	
For Elevated Installation >25' To 30', Add	85.11	
For Elevated Installation >30' To 35', Add	97.26	
For Elevated Installation >35' To 40', Add	121.58	
For Elevated Installation >40', Add	133.74	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.95	
26 05 33 13-2657 EA 3" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	607.57	126.49
For Work In Restricted Working Space, Add	94.87	
For Elevated Installation >10' To 15', Add	31.62	
For Elevated Installation >15' To 20', Add	63.25	
For Elevated Installation >20' To 25', Add	79.06	
For Elevated Installation >25' To 30', Add	110.68	
For Elevated Installation >30' To 35', Add	126.50	
For Elevated Installation >35' To 40', Add	158.12	
For Elevated Installation >40', Add	173.93	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	94.87	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2658 EA 3-1/2" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	894.52	156.29
For Work In Restricted Working Space, Add	117.22	
For Elevated Installation >10' To 15', Add	39.07	
For Elevated Installation >15' To 20', Add	78.15	
For Elevated Installation >20' To 25', Add	97.68	
For Elevated Installation >25' To 30', Add	136.76	
For Elevated Installation >30' To 35', Add	156.29	
For Elevated Installation >35' To 40', Add	195.37	
For Elevated Installation >40', Add	214.90	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.22	
26 05 33 13-2659 EA 4" Type X, Threaded, Four Hub Malleable Iron Conduit Body With Cover .....	1,004.34	187.78
For Work In Restricted Working Space, Add	140.83	
For Elevated Installation >10' To 15', Add	46.94	
For Elevated Installation >15' To 20', Add	93.89	
For Elevated Installation >20' To 25', Add	117.36	
For Elevated Installation >25' To 30', Add	164.30	
For Elevated Installation >30' To 35', Add	187.78	
For Elevated Installation >35' To 40', Add	234.72	
For Elevated Installation >40', Add	258.19	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	140.83	
<b>26 05 33 13-2660 Set Screw, Cast Aluminum Conduit Body</b> <small>(26 05 33 13-2547)</small>		
Note: For use with Electrical Metallic Tubing (EMT)		
<b>26 05 33 13-2661 Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2660)</small>		
26 05 33 13-2662 EA 1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	37.61	10.68
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.01	
26 05 33 13-2663 EA 3/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	48.25	14.06
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	
26 05 33 13-2664 EA 1" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	64.74	17.42
For Work In Restricted Working Space, Add	13.07	
For Elevated Installation >10' To 15', Add	4.36	
For Elevated Installation >15' To 20', Add	8.71	
For Elevated Installation >20' To 25', Add	10.89	
For Elevated Installation >25' To 30', Add	15.25	
For Elevated Installation >30' To 35', Add	17.43	
For Elevated Installation >35' To 40', Add	21.79	
For Elevated Installation >40', Add	23.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.07	
26 05 33 13-2665 EA 1-1/4" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	83.51	21.36
For Work In Restricted Working Space, Add	16.02	
For Elevated Installation >10' To 15', Add	5.34	
For Elevated Installation >15' To 20', Add	10.68	
For Elevated Installation >20' To 25', Add	13.35	
For Elevated Installation >25' To 30', Add	18.69	
For Elevated Installation >30' To 35', Add	21.36	
For Elevated Installation >35' To 40', Add	26.71	
For Elevated Installation >40', Add	29.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.02	
26 05 33 13-2666 EA 1-1/2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	108.67	24.74
For Work In Restricted Working Space, Add	18.55	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.37	
For Elevated Installation >20' To 25', Add	15.46	
For Elevated Installation >25' To 30', Add	21.64	
For Elevated Installation >30' To 35', Add	24.74	
For Elevated Installation >35' To 40', Add	30.92	
For Elevated Installation >40', Add	34.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.55	
26 05 33 13-2667 EA 2" Type LB, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	142.34	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 33 13-2668</b> <b>Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2660)</small>		
26 05 33 13-2669    EA    1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	37.91	10.68
For Work In Restricted Working Space, Add	8.01	
For Elevated Installation >10' To 15', Add	2.67	
For Elevated Installation >15' To 20', Add	5.34	
For Elevated Installation >20' To 25', Add	6.68	
For Elevated Installation >25' To 30', Add	9.35	
For Elevated Installation >30' To 35', Add	10.68	
For Elevated Installation >35' To 40', Add	13.35	
For Elevated Installation >40', Add	14.69	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.01	
26 05 33 13-2670    EA    3/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	49.40	14.06
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	
26 05 33 13-2671    EA    1" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	60.73	17.42
For Work In Restricted Working Space, Add	13.07	
For Elevated Installation >10' To 15', Add	4.36	
For Elevated Installation >15' To 20', Add	8.71	
For Elevated Installation >20' To 25', Add	10.89	
For Elevated Installation >25' To 30', Add	15.25	
For Elevated Installation >30' To 35', Add	17.43	
For Elevated Installation >35' To 40', Add	21.79	
For Elevated Installation >40', Add	23.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.07	
26 05 33 13-2672    EA    1-1/4" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	83.17	21.36
For Work In Restricted Working Space, Add	16.02	
For Elevated Installation >10' To 15', Add	5.34	
For Elevated Installation >15' To 20', Add	10.68	
For Elevated Installation >20' To 25', Add	13.35	
For Elevated Installation >25' To 30', Add	18.69	
For Elevated Installation >30' To 35', Add	21.36	
For Elevated Installation >35' To 40', Add	26.71	
For Elevated Installation >40', Add	29.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.02	
26 05 33 13-2673    EA    1-1/2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	102.01	24.74
For Work In Restricted Working Space, Add	18.55	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.37	
For Elevated Installation >20' To 25', Add	15.46	
For Elevated Installation >25' To 30', Add	21.64	
For Elevated Installation >30' To 35', Add	24.74	
For Elevated Installation >35' To 40', Add	30.92	
For Elevated Installation >40', Add	34.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.55	
26 05 33 13-2674    EA    2" Type LL Or LR, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	141.77	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
<b>26 05 33 13-2675</b> <b>Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2660)</small>		
26 05 33 13-2676    EA    1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover .....	48.87	14.06
For Work In Restricted Working Space, Add	10.54	
For Elevated Installation >10' To 15', Add	3.51	
For Elevated Installation >15' To 20', Add	7.03	
For Elevated Installation >20' To 25', Add	8.79	
For Elevated Installation >25' To 30', Add	12.30	
For Elevated Installation >30' To 35', Add	14.06	
For Elevated Installation >35' To 40', Add	17.57	
For Elevated Installation >40', Add	19.33	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	10.54	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 33 Raceway and Boxes for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33	13-2677	EA	3/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	63.36	17.42
			<i>For Work In Restricted Working Space, Add</i>	13.07	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.36	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.89	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.79	
			<i>For Elevated Installation &gt;40', Add</i>	23.96	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.07	
26 05 33	13-2678	EA	1" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	76.55	21.36
			<i>For Work In Restricted Working Space, Add</i>	16.02	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	5.34	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	10.68	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	13.35	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	18.69	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	21.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	26.71	
			<i>For Elevated Installation &gt;40', Add</i>	29.38	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.02	
26 05 33	13-2679	EA	1-1/4" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	104.59	24.74
			<i>For Work In Restricted Working Space, Add</i>	19.40	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	6.47	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	12.93	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	16.16	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	22.63	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	25.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	32.33	
			<i>For Elevated Installation &gt;40', Add</i>	35.56	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
26 05 33	13-2680	EA	1-1/2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	133.15	28.11
			<i>For Work In Restricted Working Space, Add</i>	22.77	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	7.59	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	15.18	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	18.98	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	26.57	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	30.36	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	37.95	
			<i>For Elevated Installation &gt;40', Add</i>	41.75	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22.77	
26 05 33	13-2681	EA	2" Type T, Set Screw, Three Hub Cast Aluminum Conduit Body With Cover	177.10	31.48
			<i>For Work In Restricted Working Space, Add</i>	26.14	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	8.71	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	17.43	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	21.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	30.50	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	34.86	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	43.57	
			<i>For Elevated Installation &gt;40', Add</i>	47.93	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26.14	
26 05 33	13-2682		<b>Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover</b> <small>(26 05 33 13-2680)</small>		
26 05 33	13-2683	EA	1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	38.89	10.68
			<i>For Work In Restricted Working Space, Add</i>	8.01	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	2.67	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	5.34	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	6.68	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	9.35	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	10.68	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	13.35	
			<i>For Elevated Installation &gt;40', Add</i>	14.69	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.01	
26 05 33	13-2684	EA	3/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	51.96	14.06
			<i>For Work In Restricted Working Space, Add</i>	10.54	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	3.51	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	7.03	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	8.79	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	12.30	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	14.06	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	17.57	
			<i>For Elevated Installation &gt;40', Add</i>	19.33	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.54	
26 05 33	13-2685	EA	1" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover	66.19	17.42
			<i>For Work In Restricted Working Space, Add</i>	13.07	
			<i>For Elevated Installation &gt;10' To 15', Add</i>	4.36	
			<i>For Elevated Installation &gt;15' To 20', Add</i>	8.71	
			<i>For Elevated Installation &gt;20' To 25', Add</i>	10.89	
			<i>For Elevated Installation &gt;25' To 30', Add</i>	15.25	
			<i>For Elevated Installation &gt;30' To 35', Add</i>	17.43	
			<i>For Elevated Installation &gt;35' To 40', Add</i>	21.79	
			<i>For Elevated Installation &gt;40', Add</i>	23.96	
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 13-2686 EA 1-1/4" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	85.25	21.36
For Work In Restricted Working Space, Add	16.02	
For Elevated Installation >10' To 15', Add	5.34	
For Elevated Installation >15' To 20', Add	10.68	
For Elevated Installation >20' To 25', Add	13.35	
For Elevated Installation >25' To 30', Add	18.69	
For Elevated Installation >30' To 35', Add	21.36	
For Elevated Installation >35' To 40', Add	26.71	
For Elevated Installation >40', Add	29.38	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.02	
26 05 33 13-2687 EA 1-1/2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	103.21	24.74
For Work In Restricted Working Space, Add	18.55	
For Elevated Installation >10' To 15', Add	6.18	
For Elevated Installation >15' To 20', Add	12.37	
For Elevated Installation >20' To 25', Add	15.46	
For Elevated Installation >25' To 30', Add	21.64	
For Elevated Installation >30' To 35', Add	24.74	
For Elevated Installation >35' To 40', Add	30.92	
For Elevated Installation >40', Add	34.01	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.55	
26 05 33 13-2688 EA 2" Type C, Set Screw, Two Hub Cast Aluminum Conduit Body With Cover .....	152.88	28.11
For Work In Restricted Working Space, Add	21.08	
For Elevated Installation >10' To 15', Add	7.03	
For Elevated Installation >15' To 20', Add	14.05	
For Elevated Installation >20' To 25', Add	17.57	
For Elevated Installation >25' To 30', Add	24.59	
For Elevated Installation >30' To 35', Add	28.11	
For Elevated Installation >35' To 40', Add	35.14	
For Elevated Installation >40', Add	38.65	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	21.08	
<b>26 05 33 13-2689 Aluminum Type LB Telecommunications Conduit Bodies With Cover (Smart Pathways) (26 05 33 13-2547)</b>		
26 05 33 13-2690 EA 3/4" To 1-1/4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB120) .....	177.48	30.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.11	
26 05 33 13-2691 EA 1-1/2" To 2-1/2" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB250) .....	636.32	56.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.71	
26 05 33 13-2692 EA 3" To 4" Aluminum Type LB Telecommunications Conduit Body With Cover (Smart Pathways KBLB400) .....	1,226.77	115.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	86.65	
<b>26 05 33 13-2693 Replacement Covers And Gaskets For Conduit Body (26 05 33 13-2547)</b>		
<b>26 05 33 13-2694 Replacement Stamped Aluminum Conduit Body Cover (26 05 33 13-2693)</b>		
26 05 33 13-2695 EA 1/2" Replacement Stamped Aluminum Conduit Body Cover .....	14.03	5.48
26 05 33 13-2696 EA 3/4" Replacement Stamped Aluminum Conduit Body Cover .....	17.08	6.39
26 05 33 13-2697 EA 1" Replacement Stamped Aluminum Conduit Body Cover .....	21.89	8.23
26 05 33 13-2698 EA 1-1/4" Replacement Stamped Aluminum Conduit Body Cover .....	26.66	10.05
26 05 33 13-2699 EA 1-1/2" Replacement Stamped Aluminum Conduit Body Cover .....	32.64	11.87
26 05 33 13-2700 EA 2" Replacement Stamped Aluminum Conduit Body Cover .....	38.59	13.71
26 05 33 13-2701 EA 2-1/2" Replacement Stamped Aluminum Conduit Body Cover .....	50.42	15.53
26 05 33 13-2702 EA 3" Replacement Stamped Aluminum Conduit Body Cover .....	65.81	21.92
26 05 33 13-2703 EA 3-1/2" Replacement Stamped Aluminum Conduit Body Cover .....	71.48	24.67
26 05 33 13-2704 EA 4" Replacement Stamped Aluminum Conduit Body Cover .....	90.04	31.06
<b>26 05 33 13-2705 Replacement Cast Steel Conduit Body Cover (26 05 33 13-2693)</b>		
26 05 33 13-2706 EA 1/2" Replacement Cast Steel Conduit Body Cover .....	16.12	5.48
26 05 33 13-2707 EA 3/4" Replacement Cast Steel Conduit Body Cover .....	18.90	6.39
26 05 33 13-2708 EA 1" Replacement Cast Steel Conduit Body Cover .....	26.38	8.23
26 05 33 13-2709 EA 1-1/4" Replacement Cast Steel Conduit Body Cover .....	32.75	10.05
26 05 33 13-2710 EA 1-1/2" Replacement Cast Steel Conduit Body Cover .....	39.74	11.87
26 05 33 13-2711 EA 2" Replacement Cast Steel Conduit Body Cover .....	46.70	13.71
26 05 33 13-2712 EA 2-1/2" Replacement Cast Steel Conduit Body Cover .....	53.64	15.53
26 05 33 13-2713 EA 3" Replacement Cast Steel Conduit Body Cover .....	73.41	21.92
26 05 33 13-2714 EA 3-1/2" Replacement Cast Steel Conduit Body Cover .....	83.47	24.67
26 05 33 13-2715 EA 4" Replacement Cast Steel Conduit Body Cover .....	105.20	31.06
<b>26 05 33 13-2716 Replacement Velbuna Composition Conduit Body Gasket (26 05 33 13-2693)</b>		
26 05 33 13-2717 EA 1/2" Replacement Velbuna Composition Conduit Body Gasket .....	13.09	5.48
26 05 33 13-2718 EA 3/4" Replacement Velbuna Composition Conduit Body Gasket .....	14.99	6.39
26 05 33 13-2719 EA 1" Replacement Velbuna Composition Conduit Body Gasket .....	19.55	8.23
26 05 33 13-2720 EA 1-1/4" Replacement Velbuna Composition Conduit Body Gasket .....	25.25	10.05
26 05 33 13-2721 EA 1-1/2" Replacement Velbuna Composition Conduit Body Gasket .....	28.91	11.87
26 05 33 13-2722 EA 2" Replacement Velbuna Composition Conduit Body Gasket .....	34.27	13.71
26 05 33 13-2723 EA 2-1/2" Replacement Velbuna Composition Conduit Body Gasket .....	44.51	15.53
26 05 33 13-2724 EA 3" Replacement Velbuna Composition Conduit Body Gasket .....	58.43	21.92
26 05 33 13-2725 EA 3-1/2" Replacement Velbuna Composition Conduit Body Gasket .....	64.50	24.67
26 05 33 13-2726 EA 4" Replacement Velbuna Composition Conduit Body Gasket .....	77.15	31.06

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

26 05 33 13-2727		Replacement Neoprene Conduit Body Gasket (26 05 33 13-2693)		
26 05 33 13-2728	EA	1/2" Replacement Neoprene Conduit Body Gasket.....	14.55	5.48
26 05 33 13-2729	EA	3/4" Replacement Neoprene Conduit Body Gasket.....	16.38	6.39
26 05 33 13-2730	EA	1" Replacement Neoprene Conduit Body Gasket.....	21.37	8.23
26 05 33 13-2731	EA	1-1/4" Replacement Neoprene Conduit Body Gasket.....	26.17	10.05
26 05 33 13-2732	EA	1-1/2" Replacement Neoprene Conduit Body Gasket.....	29.83	11.87
26 05 33 13-2733	EA	2" Replacement Neoprene Conduit Body Gasket.....	34.37	13.71
26 05 33 13-2734	EA	2-1/2" Replacement Neoprene Conduit Body Gasket.....	44.74	15.53
26 05 33 13-2735	EA	3" Replacement Neoprene Conduit Body Gasket.....	58.66	21.92
26 05 33 13-2736	EA	3-1/2" Replacement Neoprene Conduit Body Gasket.....	66.05	24.67
26 05 33 13-2737	EA	4" Replacement Neoprene Conduit Body Gasket.....	78.70	31.06

**26 05 33 16 Boxes for Electrical Systems (26 05 33)**

See CSI section 26 27 16 00-0000 for larger junction boxes and enclosures.

26 05 33 16-0001		Steel Junction, Device, And Fixture Boxes, Rings And Covers (26 05 33 16)		
Note: Thin wall metal. See CSI section 26 27 26 00-0003 for steel box/receptacle assemblies, 26 27 26 00-0134 for steel box/switch assemblies.				
26 05 33 16-0002		4" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)		
26 05 33 16-0003	EA	1-1/2" Depth, 4" Square Steel Box.....	51.08	23.07
		For Stud Bracket, Add.....	1.21	
26 05 33 16-0004	EA	2-1/8" Depth, 4" Square Steel Box.....	53.32	23.07
		For Stud Bracket, Add.....	2.17	
26 05 33 16-0005	EA	3-1/2" Depth, 4" Square Steel Box.....	61.01	23.07
		For Stud Bracket, Add.....	2.37	
26 05 33 16-0006	EA	1-1/2" Depth, 4" Square Steel Extension Ring.....	41.72	15.39
26 05 33 16-0007	EA	2-1/8" Depth, 4" Square Steel Extension Ring.....	33.94	15.39
26 05 33 16-0008	EA	1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	17.74	7.69
26 05 33 16-0009	EA	5/8" Depth, 1 Gang, 4" Square Steel Mud Ring.....	18.10	7.69
26 05 33 16-0010	EA	3/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	18.36	7.69
26 05 33 16-0011	EA	1" Depth, 1 Gang, 4" Square Steel Mud Ring.....	19.19	7.69
26 05 33 16-0012	EA	1-1/4" Depth, 1 Gang, 4" Square Steel Mud Ring.....	19.43	7.69
26 05 33 16-0013	EA	1-1/2" Depth, 1 Gang, 4" Square Steel Mud Ring.....	22.09	7.69
26 05 33 16-0014	EA	1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	18.75	7.69
26 05 33 16-0015	EA	5/8" Depth, 2 Gang, 4" Square Steel Mud Ring.....	19.01	7.69
26 05 33 16-0016	EA	3/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	19.32	7.69
26 05 33 16-0017	EA	1" Depth, 2 Gang, 4" Square Steel Mud Ring.....	22.05	7.69
26 05 33 16-0018	EA	1-1/4" Depth, 2 Gang, 4" Square Steel Mud Ring.....	22.61	7.69
26 05 33 16-0019	EA	1-1/2" Depth, 2 Gang, 4" Square Steel Mud Ring.....	26.07	7.69
26 05 33 16-0020	EA	3/4" Depth, Fixture Cover, 4" Square Mud Rings.....	20.08	7.69
26 05 33 16-0021	EA	1" Depth, Fixture Cover, 4" Square Mud Rings.....	22.28	7.69
26 05 33 16-0022	EA	One Toggle Switch, 4" Square Steel Exposed Work Cover.....	18.71	7.69
26 05 33 16-0023	EA	Two Toggle Switches, 4" Square Steel Exposed Work Cover.....	18.91	7.69
26 05 33 16-0024	EA	One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	18.66	7.69
26 05 33 16-0025	EA	Two Duplex Receptacles, 4" Square Steel Exposed Work Cover.....	19.25	7.69
26 05 33 16-0026	EA	One Toggle Switch And One Duplex Receptacle, 4" Square Steel Exposed Work Cover.....	19.74	7.69
26 05 33 16-0027	EA	One Toggle Switch And One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	25.84	7.69
26 05 33 16-0028	EA	One 1.406" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	19.65	7.69
26 05 33 16-0029	EA	Two 1.406" Diameter Receptacles, 4" Square Steel Exposed Work Cover.....	25.84	7.69
26 05 33 16-0030	EA	One 1.620" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	19.65	7.69
26 05 33 16-0031	EA	One 1.719" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	21.08	7.69
26 05 33 16-0032	EA	One 2.165" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	25.84	7.69
26 05 33 16-0033	EA	One 2.480" Diameter Receptacle, 4" Square Steel Exposed Work Cover.....	25.84	7.69
26 05 33 16-0034	EA	Flat, 4" Square Steel Exposed Work Cover.....	16.97	7.69

**26 05 33 16-0035 4-11/16" Square Steel Boxes, Rings And Covers (26 05 33 16-0001)**

26 05 33 16-0036	EA	1-1/2" Depth, 4-11/16" Square Steel Box.....	59.37	23.07
26 05 33 16-0037	EA	2-1/8" Depth, 4-11/16" Square Steel Box.....	54.30	23.07
		For Stud Bracket, Add.....	1.14	
26 05 33 16-0038	EA	3-1/4" Depth, 4-11/16" Square Steel Box.....	79.76	23.07
26 05 33 16-0039	EA	1-1/2" Depth, 4-11/16" Square Extension Ring.....	43.84	15.39
26 05 33 16-0040	EA	2-1/8" Depth, 4-11/16" Square Extension Ring.....	45.09	15.39
26 05 33 16-0041	EA	1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	22.81	7.69
26 05 33 16-0042	EA	5/8" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	22.87	7.69
26 05 33 16-0043	EA	3/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	25.03	7.69
26 05 33 16-0044	EA	1" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	24.16	7.69
26 05 33 16-0045	EA	1-1/4" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	23.97	7.69
26 05 33 16-0046	EA	1-1/2" Depth, 1 Gang, 4-11/16" Square Steel Mud Ring.....	32.96	7.69
26 05 33 16-0047	EA	1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	24.53	7.69
26 05 33 16-0048	EA	5/8" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	25.00	7.69
26 05 33 16-0049	EA	3/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	25.03	7.69
26 05 33 16-0050	EA	1" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	28.21	7.69
26 05 33 16-0051	EA	1-1/4" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	28.87	7.69
26 05 33 16-0052	EA	1-1/2" Depth, 2 Gang, 4-11/16" Square Steel Mud Ring.....	36.57	7.69
26 05 33 16-0053	EA	1/2" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	24.11	7.69
26 05 33 16-0054	EA	5/8" Depth, Fixture Cover, 4-11/16" Square Steel Mud Ring.....	24.34	7.69
26 05 33 16-0055	EA	One Toggle Switch, 4-11/16" Square Steel Exposed Work Cover.....	30.30	7.69
26 05 33 16-0056	EA	Two Toggle Switches, 4-11/16" Square Steel Exposed Work Cover.....	31.97	7.69
26 05 33 16-0057	EA	One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	29.81	7.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0058 EA Two Duplex Receptacles, 4-11/16" Square Steel Exposed Work Cover .....	27.99	7.69
26 05 33 16-0059 EA One Toggle Switch And One Duplex Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	34.08	7.69
26 05 33 16-0060 EA One 1.594" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	31.96	7.69
26 05 33 16-0061 EA One 2.141" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	31.96	7.69
26 05 33 16-0062 EA One 2.625" Diameter Receptacle, 4-11/16" Square Steel Exposed Work Cover.....	31.96	7.69
26 05 33 16-0063 EA Flat, 4-11/16" Square Steel Exposed Work Cover .....	18.33	7.69
<b>26 05 33 16-0064 Steel Square Box Brackets (26 05 33 16-0001)</b>		
26 05 33 16-0065 EA 16" Or 24" Width Box Bracket, For Multiple 1-1/2" And 2-1/8" Deep Boxes.....	25.37	11.56
26 05 33 16-0066 EA Single Box Bracket, One 4" Or 4-11/16" Square Box .....	18.92	7.70
26 05 33 16-0067 EA 16" Box Bracket, Up To Three 4" Or 4-11/16" Square Boxes .....	30.77	11.56
26 05 33 16-0068 EA 24" Box Bracket, Up To Four 4" Or 4-11/16" Square Boxes .....	33.55	11.56
<b>26 05 33 16-0069 4" Octagon Steel Boxes And Covers (26 05 33 16-0001)</b>		
26 05 33 16-0070 EA 1-1/2" Depth, 4" Steel Octagon Box.....	42.50	19.22
<i>For Stud Bracket, Add</i>	2.94	
26 05 33 16-0071 EA 2-1/8" Depth, 4" Steel Octagon Box.....	44.46	19.22
26 05 33 16-0072 EA Flat, 4" Octagon Steel Exposed Work Cover .....	16.84	7.69
<b>26 05 33 16-0073 4" Steel Octagonal Concrete Rings And Steel Covers (26 05 33 16-0001)</b>		
Note: Placed in concrete slabs or walls.		
26 05 33 16-0074 EA 2" Depth, 4" Steel Octagonal Concrete Ring .....	70.39	
26 05 33 16-0075 EA 2-1/2" Depth, 4" Steel Octagonal Concrete Ring .....	74.92	
26 05 33 16-0076 EA 3" Depth, 4" Steel Octagonal Concrete Ring .....	78.37	
26 05 33 16-0077 EA 3-1/2" Depth, 4" Steel Octagonal Concrete Ring .....	81.71	
26 05 33 16-0078 EA 4" Depth, 4" Steel Octagonal Concrete Ring .....	90.19	
26 05 33 16-0079 EA 5" Depth, 4" Steel Octagonal Concrete Ring .....	99.00	
26 05 33 16-0080 EA 6" Depth, 4" Steel Octagonal Concrete Ring .....	105.67	
26 05 33 16-0081 EA Flat, 4" Steel Octagonal Concrete Cover .....	19.54	7.69
<b>26 05 33 16-0082 4-1/2" Steel Gang Boxes (26 05 33 16-0001)</b>		
26 05 33 16-0083 EA 2 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....	70.25	19.22
26 05 33 16-0084 EA 3 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....	77.37	20.77
26 05 33 16-0085 EA 4 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....	94.12	23.07
26 05 33 16-0086 EA 5 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....	125.56	25.38
26 05 33 16-0087 EA 6 Device, 1-5/8" Depth, 4-1/2" Steel Gang Box .....	191.95	27.69
26 05 33 16-0088 EA 2 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....	100.52	19.22
26 05 33 16-0089 EA 3 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....	109.62	20.77
26 05 33 16-0090 EA 4 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....	148.58	23.07
26 05 33 16-0091 EA 5 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....	193.28	25.38
26 05 33 16-0092 EA 6 Device, 2-1/2" Depth, 4-1/2" Steel Gang Box .....	325.84	27.69
26 05 33 16-0093 EA 2 Device, Gang Box Mud Ring.....	31.13	7.69
26 05 33 16-0094 EA 3 Device, Gang Box Mud Ring.....	31.64	7.69
26 05 33 16-0095 EA 4 Device, Gang Box Mud Ring.....	37.47	7.69
26 05 33 16-0096 EA 5 Device, Gang Box Mud Ring.....	47.50	7.69
26 05 33 16-0097 EA 6 Device, Gang Box Mud Ring.....	69.49	7.69
26 05 33 16-0098 EA 2 Device, Gang Box Flat Cover .....	26.12	7.69
26 05 33 16-0099 EA 3 Device, Gang Box Flat Cover .....	31.58	7.69
26 05 33 16-0100 EA 4 Device, Gang Box Flat Cover .....	38.83	7.69
26 05 33 16-0101 EA 5 Device, Gang Box Flat Cover .....	48.06	7.69
26 05 33 16-0102 EA 6 Device, Gang Box Flat Cover .....	71.05	7.69
<b>26 05 33 16-0103 Steel Switch Boxes (26 05 33 16-0001)</b>		
26 05 33 16-0104 EA 2-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box .....	46.27	19.22
26 05 33 16-0105 EA 2-3/4" Depth, 3" x 2", Stud Bracket, Steel Switch Box .....	47.12	19.22
26 05 33 16-0106 EA 3-1/2" Depth, 3" x 2", Stud Bracket, Steel Switch Box .....	51.49	19.22
26 05 33 16-0107 EA 2-1/2" Depth, 2 Device, Stud Bracket, Steel Box .....	61.31	19.22
26 05 33 16-0108 EA 2-1/2" Depth, 3 Device, Stud Bracket, Steel Box .....	62.16	19.22
26 05 33 16-0109 EA 2-1/2" Depth, 4 Device, Stud Bracket, Steel Box .....	75.46	19.22
<b>26 05 33 16-0110 4" x 2" Steel Handy Boxes, Extension Rings And Covers (26 05 33 16-0001)</b>		
26 05 33 16-0111 EA 1-1/2" Deep, 4" x 2" Steel Handy Box.....	42.28	19.22
<i>For Stud Bracket, Add</i>	4.73	
26 05 33 16-0112 EA 1-7/8" Deep, 4" x 2" Steel Handy Box.....	43.19	19.22
<i>For Stud Bracket, Add</i>	2.04	
26 05 33 16-0113 EA 2-1/8" Deep, 4" x 2" Steel Handy Box.....	45.20	19.22
<i>For Stud Bracket, Add</i>	2.77	
26 05 33 16-0114 EA 1-1/2" Deep, 4" x 2" Steel Handy Box Extension Ring.....	28.56	11.54
26 05 33 16-0115 EA 1-7/8" Deep, 4" x 2" Steel Handy Box Extension Ring.....	27.66	11.54
26 05 33 16-0116 EA GFI Receptacle, 2" x 4" Steel Handy Box Exposed Work Cover .....	9.67	3.85
26 05 33 16-0117 EA 1.406" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover .....	9.84	3.85
26 05 33 16-0118 EA Duplex Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover .....	8.99	3.85
26 05 33 16-0119 EA Toggle Switch, 4" x 2" Steel Handy Box Exposed Work Cover.....	9.05	3.85
26 05 33 16-0120 EA 1.594" Diameter Receptacle, 4" x 2" Steel Handy Box Exposed Work Cover .....	10.78	3.85

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0121 EA Flat, 2" x 4" Steel Handy Box Exposed Work Cover .....	9.05	3.85
<b>26 05 33 16-0122 3-1/2" Depth, 3-3/4" Steel Masonry Boxes (26 05 33 16-0001)</b>		
26 05 33 16-0123 EA 1 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box .....	64.48	26.92
26 05 33 16-0124 EA 2 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box .....	72.97	28.46
26 05 33 16-0125 EA 3 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box .....	84.57	30.76
26 05 33 16-0126 EA 4 Device, 3-1/2" Depth, 3-3/4" Steel Masonry Box .....	96.94	33.84
<b>26 05 33 16-0127 Cast Boxes (26 05 33 16)</b>		
Note: For flush or surface mount.		
<b>26 05 33 16-0128 Cast Iron Alloy Boxes (26 05 33 16-0127)</b>		
See CSI section 26 27 26 00-0271 for box covers.		
<b>26 05 33 16-0129 Shallow, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)</b>		
Note: Up to 2" deep boxes.		
26 05 33 16-0130 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box .....	121.46	46.15
Note: One hub.		
26 05 33 16-0131 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box .....	133.03	53.83
Note: One hub.		
26 05 33 16-0132 EA 1" Depth, Type FS, Shallow, Single Gang Cast Iron Alloy Box .....	157.69	65.37
Note: One hub.		
26 05 33 16-0133 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box .....	153.84	61.53
Note: Two hubs.		
26 05 33 16-0134 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Iron Alloy Box .....	193.70	73.07
Note: Two hubs.		
26 05 33 16-0135 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box .....	153.34	61.53
Note: Two hubs.		
26 05 33 16-0136 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Iron Alloy Box .....	183.91	73.07
Note: Two hubs.		
26 05 33 16-0137 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box .....	156.49	61.53
Note: Two hubs.		
26 05 33 16-0138 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Iron Alloy Box .....	183.96	73.07
Note: Two hubs.		
26 05 33 16-0139 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box .....	153.34	61.53
Note: Two hubs.		
26 05 33 16-0140 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Iron Alloy Box .....	180.07	73.07
Note: Two hubs.		
26 05 33 16-0141 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box .....	184.62	76.91
Note: Three hubs.		
26 05 33 16-0142 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Iron Alloy Box .....	219.17	92.29
Note: Three hubs.		
26 05 33 16-0143 EA 1/2" Depth, Type FSFC, Shallow, Single Gang Cast Iron Alloy Box .....	190.66	76.91
Note: Three hubs.		
26 05 33 16-0144 EA 3/4" Depth, Type FSFC, Shallow, Single Gang Cast Iron Alloy Box .....	242.20	92.29
Note: Three hubs.		
26 05 33 16-0145 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box .....	194.61	76.91
Note: Three hubs.		
26 05 33 16-0146 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Iron Alloy Box .....	232.73	92.29
Note: Three hubs.		
26 05 33 16-0147 EA 1/2" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box .....	184.11	76.91
Note: Three hubs.		
26 05 33 16-0148 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Iron Alloy Box .....	235.39	92.29
Note: Three hubs.		
26 05 33 16-0149 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box .....	231.64	92.29
Note: Four hubs.		
26 05 33 16-0150 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Iron Alloy Box .....	279.55	111.52
Note: Four hubs.		
<b>26 05 33 16-0151 Deep, Single Gang Cast Iron Alloy Boxes (26 05 33 16-0128)</b>		
Note: >2" deep boxes.		
26 05 33 16-0152 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box .....	125.90	46.15
Note: One hub.		
26 05 33 16-0153 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box .....	145.37	53.83
Note: One hub.		
26 05 33 16-0154 EA 1" Depth, Type FD, Deep, Single Gang Cast Iron Alloy Box .....	171.93	65.37
Note: One hub.		
26 05 33 16-0155 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box .....	161.97	61.53
Note: Two hubs.		
26 05 33 16-0156 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box .....	188.09	73.07
Note: Two hubs.		
26 05 33 16-0157 EA 1" Depth, Type FDC, Deep, Single Gang Cast Iron Alloy Box .....	226.42	88.44
Note: Two hubs.		
26 05 33 16-0158 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Iron Alloy Box .....	199.18	73.07
Note: Two hubs.		
26 05 33 16-0159 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Iron Alloy Box .....	255.33	92.29
Note: Three hubs.		
<b>26 05 33 16-0160 Shallow, Two Gang Cast Iron Alloy Boxes (26 05 33 16-0128)</b>		
Note: Up to 2" deep boxes.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0161 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	143.14	49.99
26 05 33 16-0162 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	159.83	57.68
26 05 33 16-0163 EA 1" Depth, Type FS, Shallow, Two Gang Cast Iron Alloy Box..... Note: One hub.	186.87	69.22
26 05 33 16-0164 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	176.04	65.37
26 05 33 16-0165 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	201.39	76.91
<b>26 05 33 16-0166 Deep, Two Gang Cast Iron Alloy Boxes</b> <small>(26 05 33 16-0128)</small> Note: >2" deep boxes.		
26 05 33 16-0167 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	156.49	49.99
26 05 33 16-0168 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Iron Alloy Box..... Note: One hub.	172.39	57.68
26 05 33 16-0169 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	196.14	65.37
26 05 33 16-0170 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Iron Alloy Box..... Note: Two hubs.	222.63	76.91
<b>26 05 33 16-0171 Cast Aluminum Boxes</b> <small>(26 05 33 16-0127)</small> See CSI section 26 27 26 00-0271 for box covers.		
<b>26 05 33 16-0172 Shallow, Single Gang Cast Aluminum Boxes</b> <small>(26 05 33 16-0171)</small> Note: Up to 2" deep boxes.		
26 05 33 16-0173 EA 1/2" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	106.08	38.46
26 05 33 16-0174 EA 3/4" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	122.62	46.15
26 05 33 16-0175 EA 1" Depth, Type FS, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	139.74	57.68
26 05 33 16-0176 EA 1/2" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	100.90	38.46
26 05 33 16-0177 EA 3/4" Depth, Type FSA, Shallow, Single Gang Cast Aluminum Box..... Note: One hub.	126.27	46.15
26 05 33 16-0178 EA 1/2" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	137.35	53.83
26 05 33 16-0179 EA 3/4" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	165.38	65.37
26 05 33 16-0180 EA 1" Depth, Type FSC, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	206.83	80.76
26 05 33 16-0181 EA 1/2" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	146.36	53.83
26 05 33 16-0182 EA 3/4" Depth, Type FSL, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	160.99	65.37
26 05 33 16-0183 EA 1/2" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	141.24	53.83
26 05 33 16-0184 EA 3/4" Depth, Type FSLB, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	164.06	65.37
26 05 33 16-0185 EA 1/2" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	137.92	53.83
26 05 33 16-0186 EA 3/4" Depth, Type FSR, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	164.06	65.37
26 05 33 16-0187 EA 1/2" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	130.28	53.83
26 05 33 16-0188 EA 3/4" Depth, Type FSS, Shallow, Single Gang Cast Aluminum Box..... Note: Two hubs.	172.18	65.37
26 05 33 16-0189 EA 1/2" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	166.31	69.22
26 05 33 16-0190 EA 3/4" Depth, Type FSCA, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	202.35	84.60
26 05 33 16-0191 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	174.23	69.22
26 05 33 16-0192 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	229.80	84.60
26 05 33 16-0193 EA 1/2" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	173.57	69.22
26 05 33 16-0194 EA 3/4" Depth, Type FSCT, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	212.79	84.60
26 05 33 16-0195 EA 3/4" Depth, Type FST, Shallow, Single Gang Cast Aluminum Box..... Note: Three hubs.	215.15	84.60
26 05 33 16-0196 EA 1/2" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	211.76	84.60
26 05 33 16-0197 EA 3/4" Depth, Type FSX, Shallow, Single Gang Cast Aluminum Box..... Note: Four hubs.	258.78	103.83
<b>26 05 33 16-0198 Deep, Single Gang Cast Aluminum Boxes</b> <small>(26 05 33 16-0171)</small> Note: >2" deep boxes.		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0199 EA 1/2" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	115.27	38.46
26 05 33 16-0200 EA 3/4" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	138.13	46.15
26 05 33 16-0201 EA 1" Depth, Type FD, Deep, Single Gang Cast Aluminum Box..... Note: One hub.	161.06	57.68
26 05 33 16-0202 EA 3/4" Depth, Type FDA, Deep, Single Gang Cast Aluminum Box ..... Note: One hub.	146.52	46.15
26 05 33 16-0203 EA 1/2" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box ..... Note: Two hubs.	149.23	53.83
26 05 33 16-0204 EA 3/4" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box ..... Note: Two hubs.	179.97	65.37
26 05 33 16-0205 EA 1" Depth, Type FDC, Deep, Single Gang Cast Aluminum Box ..... Note: Two hubs.	205.46	80.76
26 05 33 16-0206 EA 3/4" Depth, Type FDS, Deep, Single Gang Cast Aluminum Box ..... Note: Two hubs.	181.92	65.37
26 05 33 16-0207 EA 3/4" Depth, Type FDCC, Deep, Single Gang Cast Aluminum Box..... Note: Three hubs.	225.04	84.60
<b>26 05 33 16-0208</b> <b>Shallow, Two Gang Cast Aluminum Boxes</b> <small>(26 05 33 16-0171)</small> Note: Up to 2" deep boxes.		
26 05 33 16-0209 EA 1/2" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box ..... Note: One hub.	135.82	42.30
26 05 33 16-0210 EA 3/4" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box ..... Note: One hub.	156.39	49.99
26 05 33 16-0211 EA 1" Depth, Type FS, Shallow, Two Gang Cast Aluminum Box ..... Note: One hub.	172.21	61.53
26 05 33 16-0212 EA 1/2" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	172.39	57.68
26 05 33 16-0213 EA 3/4" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	181.49	69.22
26 05 33 16-0214 EA 1" Depth, Type FSC, Shallow, Two Gang Cast Aluminum Box..... Note: Two hubs.	223.70	84.60
<b>26 05 33 16-0215</b> <b>Deep, Two Gang Cast Aluminum Boxes</b> <small>(26 05 33 16-0171)</small> Note: >2" deep boxes.		
26 05 33 16-0216 EA 1/2" Depth, Type FD, Deep, Two Gang Cast Aluminum Box ..... Note: One hub.	135.72	42.30
26 05 33 16-0217 EA 3/4" Depth, Type FD, Deep, Two Gang Cast Aluminum Box ..... Note: One hub.	157.64	49.99
26 05 33 16-0218 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box ..... Note: Two hubs.	175.26	57.68
26 05 33 16-0219 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box ..... Note: Two hubs.	200.71	69.22
26 05 33 16-0220 EA 1/2" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box ..... Note: Two hubs.	175.26	57.68
26 05 33 16-0221 EA 3/4" Depth, Type FDC, Deep, Two Gang Cast Aluminum Box ..... Note: Two hubs.	200.71	69.22
<b>26 05 33 16-0222</b> <b>Shallow, Three Gang Cast Aluminum Boxes</b> <small>(26 05 33 16-0171)</small> Note: Up to 2" deep boxes.		
26 05 33 16-0223 EA 1/2" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	184.48	61.53
26 05 33 16-0224 EA 3/4" Depth, Type FSC, Shallow, Three Gang Cast Aluminum Box..... Note: Two hubs.	209.19	73.07
<b>26 05 33 16-0225</b> <b>Deep, Three Gang Cast Aluminum Boxes</b> <small>(26 05 33 16-0171)</small> Note: >2" deep boxes.		
26 05 33 16-0226 EA 3/4" Depth, Type FD, Deep, Three Gang Cast Aluminum Box ..... Note: One hub.	201.44	53.83
26 05 33 16-0227 EA 1" Depth, Type FD, Deep, Three Gang Cast Aluminum Box ..... Note: One hub.	227.46	65.37
<b>26 05 33 16-0228</b> <b>Cast Aluminum Explosion Proof Outlet Bodies</b> <small>(26 05 33 16-0127)</small> Note: Class I, Div. 1 & 2; Class II, Div. 1 & 2; and Class III.		
26 05 33 16-0229 EA 1/2" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	211.60	61.53
26 05 33 16-0230 EA 3/4" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	258.48	69.22
26 05 33 16-0231 EA 1" Depth, Type GRSS, 7 Opening, Cast Aluminum Explosion Proof Outlet Body.....	243.75	76.91
26 05 33 16-0232 EA 1/2" Depth, Type GRSSA, 13 Opening, Cast Aluminum Explosion Proof Outlet Body .....	235.06	69.22
26 05 33 16-0233 EA 3/4" Depth, 13 Hubs, Explosion Proof Conduit Outlet Box With Cover Cast Aluminum, Type GRSSA .....	282.57	76.91
<b>26 05 33 16-0234</b> <b>Non-Metallic (PVC) Boxes</b> <small>(26 05 33 16)</small> See CSI section 26 27 26 00-0271 for box covers.		
<b>26 05 33 16-0235</b> <b>Shallow, Single Gang Non-Metallic (PVC) Boxes</b> <small>(26 05 33 16-0234)</small>		
26 05 33 16-0236 EA 1/2" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: One hub.	76.23	32.31





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0237 EA 3/4" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: One hub.	87.36	37.69
26 05 33 16-0238 EA 1" Depth, Type FSE, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: One hub.	100.46	45.76
26 05 33 16-0239 EA 1/2" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	98.13	43.07
26 05 33 16-0240 EA 3/4" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	115.47	51.15
26 05 33 16-0241 EA 1" Depth, Type FSC, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	140.02	61.92
26 05 33 16-0242 EA 1/2" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	98.44	43.07
26 05 33 16-0243 EA 3/4" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	114.65	51.15
26 05 33 16-0244 EA 1" Depth, Type FSS, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	137.21	61.92
26 05 33 16-0245 EA 1/2" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: Three hubs.	124.13	53.83
26 05 33 16-0246 EA 3/4" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: Three hubs.	142.41	64.60
26 05 33 16-0247 EA 1" Depth, Type FSCC, Shallow, Single Gang Non-Metallic (PVC) Box ..... Note: Three hubs.	168.36	78.07
<b>26 05 33 16-0248 Deep, Single Gang Non-Metallic (PVC) Boxes</b> <small>(26 05 33 16-0234)</small>		
26 05 33 16-0249 EA No Hub, Type FD, Deep, Single Gang Non-Metallic (PVC) Box ..... Note: No hubs.	77.13	32.31
26 05 33 16-0250 EA 1/2" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box ..... Note: One hub.	75.54	32.31
26 05 33 16-0251 EA 3/4" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box ..... Note: One hub.	89.52	37.69
26 05 33 16-0252 EA 1" Depth, Type FDE, Deep, Single Gang Non-Metallic (PVC) Box ..... Note: One hub.	101.34	45.76
26 05 33 16-0253 EA 1/2" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	99.91	43.07
26 05 33 16-0254 EA 3/4" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	113.14	51.15
26 05 33 16-0255 EA 1" Depth, Type FDC, Deep, Single Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	135.48	61.92
<b>26 05 33 16-0256 Shallow, Two Gang Non-Metallic (PVC) Boxes</b> <small>(26 05 33 16-0234)</small>		
26 05 33 16-0257 EA 1/2" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: One hub.	82.09	34.99
26 05 33 16-0258 EA 3/4" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: One hub.	94.13	40.38
26 05 33 16-0259 EA 1" Depth, Type FSE, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: One hub.	106.01	48.45
26 05 33 16-0260 EA 1/2" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	101.54	45.76
26 05 33 16-0261 EA 3/4" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	124.73	53.83
26 05 33 16-0262 EA 1" Depth, Type FSC, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	147.85	64.60
26 05 33 16-0263 EA 1/2" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	103.64	45.76
26 05 33 16-0264 EA 3/4" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	130.56	53.83
26 05 33 16-0265 EA 1" Depth, Type FSS, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: Two hubs.	143.17	64.60
26 05 33 16-0266 EA 1/2" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: Three hubs.	126.90	56.53
26 05 33 16-0267 EA 3/4" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: Three hubs.	164.82	67.30
26 05 33 16-0268 EA 1" Depth, Type FSCC, Shallow, Two Gang Non-Metallic (PVC) Box ..... Note: Three hubs.	173.60	80.76
<b>26 05 33 16-0269 Poke Thru Units</b> <small>(26 05 33 16)</small>		
<b>26 05 33 16-0270 Surface Poke Thru Units</b> <small>(26 05 33 16-0269)</small>		
Note: Excludes concrete drilling. See CSI section 27 11 19 00-0122 for jacks.		
26 05 33 16-0271 EA Single 20 Amperes, Duplex Receptacle RC3 Power And Communications Poke Thru Unit ..... Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC3ATCAL.	596.81	57.68
26 05 33 16-0272 EA Retrofit Kit Upgrades Existing RC3 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements ..... Note: Includes 20 Amp duplex receptacle. Tile or carpet with brushed aluminum flange with black non-metallic cover. Wiremold RC3KTCAL.	381.70	
26 05 33 16-0273 EA 20 Amperes, Replacement Duplex Receptacle For RC3 Series Power And Communications Poke Thru Unit ..... Note: Wiremold RC37REC.	55.98	15.39
26 05 33 16-0274 EA Abandonment Plate For RC3 Series Power And Communications Poke Thru Unit ..... Note: Wiremold RC3APTCKB.	64.41	7.69

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0275	EA	Four 20 Amperes, Receptacles RC4 Power And Communications Poke Thru Unit ..... Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC4ATCAL.	673.88	61.53
26 05 33 16-0276	EA	Retrofit Kit Upgrades Existing RC4 Series Power And Communications Poke Thru Unit To Meet Scrub Water Requirements ..... Note: Includes two 20 Amp duplex receptacles. Tile or carpet with brushed aluminum flange with black non-metallic cover. Excludes communication jacks. Wiremold RC4KTCAL.	358.12	
26 05 33 16-0277	EA	Two 20 Amperes, Replacement Duplex Receptacles For RC4 Series Power And Communications Poke Thru Unit ..... Note: Wiremold RC4REC2.	94.98	23.07
26 05 33 16-0278	EA	Abandonment Plate For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold RC4APTCBK.	64.41	7.69
26 05 33 16-0279	EA	Abandonment Plug For RC4 Series Power And Communications Poke Thru Unit..... Note: Wiremold ABPLUG4.	185.58	15.39
26 05 33 16-0280	EA	Four Jack RC9AMD Communications Poke Thru Unit..... Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept four Ortronics TracJack inserts and two Ortronics Series II inserts. Excludes communication jacks. Wiremold RC9AMDTCAL.	534.79	53.83
26 05 33 16-0281	EA	Abandonment Plate For RC9 Series Communications Poke Thru Unit ..... Note: Wiremold RC9APTCBK.	45.46	7.69
26 05 33 16-0282	EA	Eight Jack AMD8 Communications Poke Thru Unit ..... Note: Tile or carpet with brushed aluminum flange with black non-metallic cover. Includes bezels to accept eight Ortronics TracJack inserts and four Ortronics Series II inserts. Excludes communication jacks. Wiremold AMD8ATCAL.	532.40	53.83
26 05 33 16-0283	EA	Communication Conduit Adapter For Poke Thru Units ..... Note: Includes two conduit connections for communication systems. Wiremold COM75.	62.33	7.69
26 05 33 16-0284		<b>Recessed Poke Thru Units</b> (26 05 33 16-0289) Note: Excludes concrete drilling.		
26 05 33 16-0285		<b>Evolution 6AT Poke Thru Units</b> (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0286	EA	Recessed Prewired Assembly With Surface Style Cover (Wiremold 6ATCP) ..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	914.17	61.53
26 05 33 16-0287	EA	Recessed Prewired Assembly With Flush Style Cover (Wiremold 6ATP)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	914.28	61.53
26 05 33 16-0288	EA	Recessed Assembly With Surface Style Cover (Wiremold 6ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	872.44	61.53
26 05 33 16-0289	EA	Recessed Assembly With Flush Style Cover (Wiremold 6AT)..... Note: For tile, wood or laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	872.44	61.53
26 05 33 16-0290	EA	Recessed Prewired Audio/Video Assembly With Surface Style Cover (Wiremold 6ATCPA)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	914.17	61.53
26 05 33 16-0291	EA	Recessed Prewired Audio/Video Assembly With Flush Style Cover (Wiremold 6ATPA)..... Note: For tile, wood and laminate floors. For use in 6" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	914.17	61.53
26 05 33 16-0292	EA	Recessed Furniture Feed Assembly With Surface Style Cover (Wiremold 6ATCFF)..... Note: For carpet, tile, wood and laminate floors. For use in 6" diameter cored hole. Die-cast aluminum cover assembly provides one (1) 3/4" trade size screw plug opening and one (1) concentric 2" to 1 1/4" trade size screw plug opening and is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	837.12	61.53
26 05 33 16-0293	EA	Recessed Assembly With Disposable Plate (Wiremold 6STC)..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. No device plates are included. For use with the following cover assemblies (purchased separately): 6CTC, 6CT, and 6CFFTC Series.	532.35	57.68
26 05 33 16-0294	EA	Recessed Prewired Audio/Video Assembly With Disposable Plate (Wiremold 6STCPAV) ..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies(purchased separately): 6CTC and 6CT Series.	569.26	57.68
26 05 33 16-0295	EA	Recessed Prewired Assembly With Disposable Plate (Wiremold 6STCP) ..... Note: Includes 6" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 6CTC and 6CT Series.	572.92	57.68
26 05 33 16-0296	EA	6" Pre-Pour Poke-Thru Sleeve (Wiremold 6PPS)..... Note: Non-metallic sleeve attaches to structural decking and maintains 6" to 6-1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	168.07	30.76
26 05 33 16-0297	EA	Surface Style Cover Assembly (Wiremold 6CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CTC Series cover assemblies designed for use with 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies.	364.75	15.39
26 05 33 16-0298	EA	Flush Style Cover Assembly (Wiremold 6CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: black (BK), gray (GY), nickel (NK), brass (BS), and bronze (BZ). 6CT Series cover assemblies designed for use with 6STC, 6STCP and 6STCPAV Poke-Thru Stem Assemblies. Includes one (1) 6TS Tile Shim.	364.75	15.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0299 EA Furniture Feed Cover Assembly (Wiremold 6CFFTC)..... Note: Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2" to 1-1/4" trade size screw plug opening. Cover assembly is available in finishes: black (BK), gray(GY), nickel (NK), brass (BS), and bronze (BZ). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke- Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.	304.22	15.39
26 05 33 16-0300 EA Tile Shim (Wiremold 6TS)..... Note: Used for floor coverings greater than 5/16" The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" of adjustment.	44.65	3.85
26 05 33 16-0301 EA Device Mounting Plate (Wiremold 6AAP) ..... Note: Device plate that will accept up to two (2) Extron® Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.	24.17	7.69
26 05 33 16-0302 EA Device Mounting Plate (Wiremold 6ACT8A)..... Note: Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.	27.45	7.69
26 05 33 16-0303 EA Device Mounting Plate (Wiremold 6B)..... Note: Device plate used to blank off center compartment, when no devices are used.	24.07	7.69
26 05 33 16-0304 EA Device Mounting Plate (Wiremold 6DEC)..... Note: Device plate that will accept Decorator style devices such as 20 amperes receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.	24.13	7.69
26 05 33 16-0305 EA Device Mounting Plate (Wiremold 6DP) ..... Note: Device plate that will accept standard 20 amperes duplex receptacle or duplex Turnlok receptacle. For use in the center compartment only. Devices supplied by others.	23.99	7.69
26 05 33 16-0306 EA Device Mounting Plate (Wiremold 6MAAP) ..... Note: Device plate that will accept up to six (6) Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.	27.79	7.69
26 05 33 16-0307 EA Device Mounting Plate (Wiremold 6MAAP2A)..... Note: Combination device plate that will accept up to three (3) Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.	27.53	7.69
26 05 33 16-0308 EA Mosaic Mounting Plate (Wiremold 6MOS)..... Note: Device plate will accept two (2) standard [45mm x 45mm] or one (1) standard [45mm x 90mm] Mosaic style device(s). Devices supplied by others.	28.12	7.69
26 05 33 16-0309 EA Device Mounting Plate (Wiremold 6S1)..... Note: Receptacle opening 1 3/8". For 6" poke-thru units only.	23.68	7.69
26 05 33 16-0310 EA Device Mounting Plate (Wiremold 6S2)..... Note: Receptacle opening 1 9/16". For 6" poke-thru units only.	23.70	7.69
26 05 33 16-0311 EA Device Mounting Plate (Wiremold 6SER)..... Note: Device plate that will accept up to four (4) Ortronics® Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.	23.41	7.69
26 05 33 16-0312 EA Device Mounting Plate (Wiremold 6TRAC)..... Note: Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.	23.41	7.69
26 05 33 16-0313 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC)..... Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated ground device.	53.64	11.54
26 05 33 16-0314 EA Device Mounting Plate (Wiremold 68B)..... Note: Blank plate. Used to blank off either of the side compartments when no devices or cabling are to be used.	21.69	7.69
26 05 33 16-0315 EA Device Mounting Plate (Wiremold 68MAAP)..... Note: Device plate that will accept up to two (2) Extron® Electronics MAAP device plates. For use in either of the two side compartments only. Not for use in the center compartment. Extron Devices supplied by others.	22.16	7.69
26 05 33 16-0316 EA 20 Amperes, Duplex Receptacles (Wiremold 68REC-25) ..... Note: Two (2) proprietary 20 amperes duplex power receptacles with mounting plates and 25' leads. Designed to fit in either of the two side compartments in both the 6ATC and the 8ATC Series Poke-Thru Devices. Receptacle can be wired as a standard or isolated	159.92	13.84
26 05 33 16-0317 EA Device Mounting Plate (Wiremold 682A)..... Note: Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.	27.23	7.69
26 05 33 16-0318 EA Bottom Housing Assembly (Wiremold 5PTHA)..... Note: Half-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use on side compartments only.	28.25	7.69
26 05 33 16-0319 EA Bottom Housing Assembly (Wiremold 5BLH) ..... Note: Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. Includes tunnels for 6" and 8" poke-thru devices.	28.97	7.69
26 05 33 16-0320 EA Bottom Housing Assembly (Wiremold 152CHA)..... Note: One and a half-gang 2" trade size conduit housing assembly. Recommended for use with furniture feed devices (6ATCFF). Covers the center compartment and one of the side compartments.	45.88	15.39
26 05 33 16-0321 EA Bottom Housing Assembly (Wiremold 575CHA)..... Note: Half-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use on side compartments only.	53.20	19.22
26 05 33 16-0322 EA Bottom Housing Assembly (Wiremold 175CHA)..... Note: One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections.	57.90	19.22
26 05 33 16-0323 EA Bottom Housing Assembly (Wiremold 1125CHA)..... Note: One-gang 1 1/4" trade size conduit housing assembly.	44.29	15.39
26 05 33 16-0324 EA Bottom Housing Assembly (Wiremold 1PTHA)..... Note: One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required.	28.08	7.69
26 05 33 16-0325 EA Bottom Housing Assembly (Wiremold 1BLH) ..... Note: One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required.	28.08	7.69
26 05 33 16-0326 EA Bottom Housing Assembly (Wiremold 15FFHA)..... Note: One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6AT Series units.	29.43	7.69

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0327 EA Bottom Housing Assembly (Wiremold 1BHA)..... Note: One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, and 1BLH plates.	30.34	7.69
<b>26 05 33 16-0328 Evolution 8AT Poke Thru Units</b> (26 05 33 16-0284) Note: Excludes concrete drilling.		
26 05 33 16-0329 EA Recessed Prewired Assembly With Surface Style Cover (Wiremold 8ATCP)..... Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,191.76	61.53
26 05 33 16-0330 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8ATP)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,135.45	61.53
26 05 33 16-0331 EA Recessed Prewired Assembly With Flush Style Cover (Wiremold 8AT2P)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" [83mm] below floor surface. Die-cast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,204.51	61.53
26 05 33 16-0332 EA Recessed Assembly With Surface Style Cover (Wiremold 8ATC)..... Note: For carpet, tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,124.85	61.53
26 05 33 16-0333 EA Recessed Assembly With Flush Style Cover (Wiremold 8AT)..... Note: For tile, wood and laminate floors. For use in 8" diameter cored hole. Devices are recessed 3 1/4" below floor surface. Diecast aluminum cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze.	1,114.80	61.53
26 05 33 16-0334 EA Recessed Assembly With Disposable Plate (Wiremold 8STC)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	681.36	57.68
26 05 33 16-0335 EA Recessed Prewired Assembly With Disposable Plate (Wiremold 8STCP)..... Note: Includes 8" core hole poke-thru stem assembly with a disposable plate. Devices are recessed 3 1/4" below floor surface. No cover assembly is included. For use with the following cover assemblies (purchased separately): 8CTC and 8CT Series.	760.69	57.68
26 05 33 16-0336 EA 8" Pre-Pour Poke-Thru Sleeve (Wiremold 8PPS)..... Note: Non-metallic sleeve attaches to structural decking and maintains 8" to 8 1/8" diameter cast in core hole. Unit includes three (3) attachment legs, two (2) end caps and three (3) thumb screws.	199.03	30.76
26 05 33 16-0337 EA Surface Style Cover Assembly (Wiremold 8CTC)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies.	393.96	15.39
26 05 33 16-0338 EA Flush Style Cover Assembly (Wiremold 8CT)..... Note: Die-cast aluminum cover assembly. Cover assembly is available in the following finishes: (BK) painted black, (GY) painted gray, (NK) nickel, (BS) brass, and (BZ) bronze. 8CTC Series Cover Assemblies designed for use with 8STC and 8STCP Poke-Thru Stem Assemblies. Includes one (1) 8TS Tile Shim.	393.96	15.39
26 05 33 16-0339 EA Tile Shim (Wiremold 8TS)..... Note: Used for floor coverings greater than 5/16". The 8TS will allow the top surface of the cover to be flush with the finished floor. Includes: two (2) 1/8" thick shims and two (2) 1/16" thick shims. Up to a total of 3/8" [9.5mm] of adjustment.	68.73	3.85
26 05 33 16-0340 EA Device Mounting Plate (Wiremold 8B)..... Note: Singlegang device plate used to blank off any one (1) of the three (3) gangs in the center compartment, when no devices are used.	24.87	7.69
26 05 33 16-0341 EA Device Mounting Plate (Wiremold 8DP)..... Note: Singlegang device plate that accepts standard 20 amperes duplex receptacle or a duplex Turnlok receptacle. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	25.00	7.69
26 05 33 16-0342 EA Device Mounting Plate (Wiremold 8DEC)..... Note: Singlegang device plate that will accept Decorator style devices such as 20 amperes receptacles, GGCIs, 106 adapters or A/V devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	25.14	7.69
26 05 33 16-0343 EA Device Mounting Plate (Wiremold 8ACT6A)..... Note: Singlegang device plate that will accept up to six (6) ports of communication devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	28.66	7.69
26 05 33 16-0344 EA Mosaic Mounting Plate (Wiremold 8MOS)..... Note: Device plate accepts three (3) standard Mosaic devices. Devices supplied by others.	34.07	7.69
26 05 33 16-0345 EA Crestron Double Gang Plate (Wiremold 8CREST)..... Note: Device plate accepts Crestron double-gang decorator style devices.	34.03	7.69
26 05 33 16-0346 EA Device Mounting Plate (Wiremold 8S1)..... Note: Receptacle opening 1 3/8". For 8" poke-thru units only.	24.21	7.69
26 05 33 16-0347 EA Device Mounting Plate (Wiremold 8S2)..... Note: Receptacle opening 1 9/16". For 8" poke-thru units only.	24.48	7.69
26 05 33 16-0348 EA Device Mounting Plate (Wiremold 8TRAC)..... Note: Singlegang device plate that will accept up to six (6) Ortronics TracJack devices. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	24.21	7.69
26 05 33 16-0349 EA Device Mounting Plate (Wiremold 8SER)..... Note: Singlegang device plate that will accept up to three (3) Ortronics Series II dual modular inserts. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	24.21	7.69
26 05 33 16-0350 EA Device Mounting Plate (Wiremold 8MAAP)..... Note: Singlegang device plate that will accept up to four (4) Extron® Electronics MAAP style plates. Fits in any one (1) of the three (3) gangs in the center compartment. Devices supplied by others.	33.59	7.69
26 05 33 16-0351 EA Device Mounting Plate (Wiremold 8AAP)..... Note: Twogang device plate that will accept up to four (4) Extron® Electronics AAP style plates. 8AAP takes up 2 of the 3 gangs in the center compartment. Devices supplied by others.	28.50	7.69
26 05 33 16-0352 EA 8" Divider (Wiremold 8DIV)..... Note: Divider allows for separation of services when required.	32.39	7.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 16-0353 EA Bottom Housing Assembly (Wiremold 22CHA)..... Note: Two-gang 2" trade size conduit housing assembly. Used on 8AT Series devices. Covers two (2) of the three (3) gangs in the center compartment. Only for use with 8AT Series units.	45.88	15.39
<b>26 05 33 23 Surface Raceways for Electrical Systems (26 05 33)</b>		
<b>26 05 33 23-0001 Raceways (26 05 33 23)</b>		
<b>26 05 33 23-0002 Wireway With Screw Cover (26 05 33 23-0001)</b> Note: Also known as wire trough. Galvanized steel construction. Mounted exposed on flat wall surface.		
<b>26 05 33 23-0003 2-1/2" x 2-1/2", Wireway With Screw Cover (26 05 33 23-0002)</b>		
26 05 33 23-0004 LF 2-1/2" x 2-1/2", NEMA 1, Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	31.08 0.85 0.70	7.02
26 05 33 23-0005 EA 2-1/2" x 2-1/2", End Plate For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	27.25 0.31	10.54
26 05 33 23-0006 EA 2-1/2" x 2-1/2", Coupling For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	32.45 0.31	13.15
26 05 33 23-0007 EA 2-1/2" x 2-1/2", Panel Adapter For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	67.29 0.91	24.60
26 05 33 23-0008 EA 2-1/2" x 2-1/2", Elbow For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	103.34 2.71	24.60
26 05 33 23-0009 EA 2-1/2" x 2-1/2", Tee For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	152.58 4.14	35.00
26 05 33 23-0010 EA 2-1/2" x 2-1/2", Cross For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	171.09 4.69	38.65
<b>26 05 33 23-0011 4" x 4", Wireway With Screw Cover (26 05 33 23-0002)</b>		
26 05 33 23-0012 LF 4" x 4", NEMA 1, Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	38.13 1.03 0.88	8.86
26 05 33 23-0013 LF 4" x 4", NEMA 3R, Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	66.09 2.43 0.88	8.86
26 05 33 23-0014 EA 4" x 4", End Plate For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	21.90 0.32	7.73
26 05 33 23-0015 EA 4" x 4", Coupling For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	35.96 0.32	14.76
26 05 33 23-0016 EA 4" x 4", Panel Adapter For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	79.84 0.98	30.08
26 05 33 23-0017 EA 4" x 4", Elbow For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	119.48 2.96	30.08
26 05 33 23-0018 EA 4" x 4", Tee For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	168.00 4.49	39.08
26 05 33 23-0019 EA 4" x 4", Cross For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	194.25 5.14	45.68
<b>26 05 33 23-0020 6" x 6", Wireway With Screw Cover (26 05 33 23-0002)</b>		
26 05 33 23-0021 LF 6" x 6", NEMA 1, Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	56.12 1.75 1.06	10.54
26 05 33 23-0022 LF 6" x 6", NEMA 3R, Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	105.15 4.20 1.06	10.54
26 05 33 23-0023 EA 6" x 6", End Plate For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	27.23 0.52	8.44
26 05 33 23-0024 EA 6" x 6", Coupling For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	45.50 0.52	17.57
26 05 33 23-0025 EA 6" x 6", Panel Adapter For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	110.13 2.01	35.00
26 05 33 23-0026 EA 6" x 6", Elbow For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	151.99 4.11	35.00
26 05 33 23-0027 EA 6" x 6", Tee For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	234.93 7.38	43.71
26 05 33 23-0028 EA 6" x 6", Cross For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	255.77 7.73	50.60
<b>26 05 33 23-0029 8" x 8", Wireway With Screw Cover (26 05 33 23-0002)</b>		
26 05 33 23-0030 LF 8" x 8", NEMA 1, Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	88.60 3.28 1.15	11.52
26 05 33 23-0031 LF 8" x 8", NEMA 3R, Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add For Concrete Or Masonry Surface, Add	158.44 6.77 1.15	11.52
26 05 33 23-0032 EA 8" x 8", End Plate For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	29.94 0.58	9.14
26 05 33 23-0033 EA 8" x 8", Coupling For Surface Mounted Wireway With Screw Cover ..... For Combination Hinged Screw Cover, Add	49.61 0.58	18.98

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0034	EA		8" x 8", Panel Adapter For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	122.74 2.29	38.51
26 05 33 23-0035	EA		8" x 8", Elbow For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	190.72 5.68	38.51
26 05 33 23-0036	EA		8" x 8", Tee For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	280.76 9.29	47.51
26 05 33 23-0037	EA		8" x 8", Cross For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	388.91 13.68	57.63
<b>26 05 33 23-0038</b>			<b>10" x 10", Wireway With Screw Cover</b> <small>(26 05 33 23-0002)</small>		
26 05 33 23-0039	LF		10" x 10", NEMA 1, Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	127.46 5.04 1.34	13.36
26 05 33 23-0040	LF		10" x 10", NEMA 3R, Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	221.97 9.76 1.34	13.36
26 05 33 23-0041	EA		10" x 10", End Plate For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	41.11 1.00	10.54
26 05 33 23-0042	EA		10" x 10", Coupling For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	62.19 1.00	21.08
26 05 33 23-0043	EA		10" x 10", Panel Adapter For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	160.40 3.83	41.88
26 05 33 23-0044	EA		10" x 10", Elbow For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	295.26 10.57	41.88
26 05 33 23-0045	EA		10" x 10", Tee For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	442.84 16.86	52.85
26 05 33 23-0046	EA		10" x 10", Cross For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	626.25 25.34	59.73
<b>26 05 33 23-0047</b>			<b>12" x 12", Wireway With Screw Cover</b> <small>(26 05 33 23-0002)</small>		
26 05 33 23-0048	LF		12" x 12", NEMA 1, Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	149.84 5.88 1.62	16.16
26 05 33 23-0049	LF		12" x 12", NEMA 3R, Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i> <i>For Concrete Or Masonry Surface, Add</i>	244.82 10.63 1.62	16.16
26 05 33 23-0050	EA		12" x 12", End Plate For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	53.10 1.53	11.24
26 05 33 23-0051	EA		12" x 12", Coupling For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	75.59 1.53	22.49
26 05 33 23-0052	EA		12" x 12", Panel Adapter For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	207.10 5.79	45.68
26 05 33 23-0053	EA		12" x 12", Elbow For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	385.70 14.72	45.68
26 05 33 23-0054	EA		12" x 12", Tee For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	496.49 19.20	56.22
26 05 33 23-0055	EA		12" x 12", Cross For Surface Mounted Wireway With Screw Cover ..... <i>For Combination Hinged Screw Cover, Add</i>	798.89 33.62	63.25
<b>26 05 33 23-0056</b>			<b>Surface Metal Raceways</b> <small>(26 05 33 23-0001)</small> Note: Exposed on flat wall surface.		
<b>26 05 33 23-0057</b>			<b>One Piece Surface Metal Raceways</b> <small>(26 05 33 23-0056)</small> Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
<b>26 05 33 23-0058</b>			<b>3/4" x 17/32" One Piece Surface Metal Raceways (Wiremold #500)</b> <small>(26 05 33 23-0057)</small> Note: Available in ivory.		
26 05 33 23-0059	LF		3/4" x 17/32" One Piece Surface Metal Raceway (Wiremold #500) ..... <i>For Concrete Or Masonry Surface, Add</i>	5.92 0.21	2.10
26 05 33 23-0060	EA		Bushing (Wiremold #502) .....	6.03	2.82
26 05 33 23-0061	EA		One Or Two Hole Strap (Wiremold #504) .....	6.08	2.82
26 05 33 23-0062	EA		Connection Cover (Wiremold #506) .....	6.27	2.82
26 05 33 23-0063	EA		Flat 90 Degree Elbow (Wiremold #511) .....	9.27	3.38
26 05 33 23-0064	EA		Flat 45 Degree Elbow (Wiremold #512) .....	14.74	3.52
26 05 33 23-0065	EA		Adjustable Internal Elbow (Wiremold #517) .....	11.54	4.22
26 05 33 23-0066	EA		Adjustable External Elbow (Wiremold #518) .....	11.31	4.22
<b>26 05 33 23-0067</b>			<b>3/4" x 21/32" One Piece Surface Metal Raceways (Wiremold #700)</b> <small>(26 05 33 23-0057)</small> Note: Available in ivory and white.		
26 05 33 23-0068	LF		3/4" x 21/32" One Piece Surface Metal Raceway (Wiremold #700) ..... <i>For Concrete Or Masonry Surface, Add</i>	7.49 0.28	2.82
26 05 33 23-0069	EA		Bushing (Wiremold #702) .....	6.15	2.82
26 05 33 23-0070	EA		One Or Two Hole Strap (Wiremold #704) .....	6.31	2.82
26 05 33 23-0071	EA		Connection Cover (Wiremold #706) .....	6.35	2.82
26 05 33 23-0072	EA		Flat 90 Degree Elbow (Wiremold #711) .....	13.80	5.62
26 05 33 23-0073	EA		Flat 45 Degree Elbow (Wiremold #712) .....	20.59	5.62
26 05 33 23-0074	EA		Adjustable Internal Elbow (Wiremold #717) .....	14.73	5.62
26 05 33 23-0075	EA		Adjustable External Elbow (Wiremold #718) .....	14.30	5.62



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**26 05 33 23-0076 One Piece Surface Metal Raceways Fittings (Wiremold #500 And 700 Fittings)** (26 05 33 23-0057)

Note: Available in ivory.

26 05 33 23-0077	EA 18" Flex Fitting, For #500 Or 700 (Wiremold #5700F).....	36.83	4.22
26 05 33 23-0078	EA Galvanized Coupling For #500 Or 700 (Wiremold #5701).....	6.29	2.82
26 05 33 23-0079	EA Supporting Clip, For #500 Or 700 (Wiremold #5703).....	6.29	2.82
26 05 33 23-0080	EA Ground Clamp (Wiremold #5709).....	16.88	4.22
26 05 33 23-0081	EA Grounding Connector (Wiremold #5709GC).....	14.48	4.22
26 05 33 23-0082	EA L Or R (Left Or Right) Twisted Internal Ell (Wiremold #5711).....	16.74	5.62
26 05 33 23-0083	EA Tee (Wiremold #5715).....	19.07	7.02
26 05 33 23-0084	EA 2-1/2" x 2-3/8" x 2-1/2" Corner Box (Wiremold #5719).....	30.89	5.62
26 05 33 23-0085	EA Utility Box For #500 Or #700 (Wiremold #57242).....	24.22	5.62
26 05 33 23-0086	EA 2-3/8" Diameter, Blank Cover (Wiremold #5731).....	13.18	3.52
26 05 33 23-0087	EA 3" Diameter, Outlet Box (Wiremold #5733).....	29.52	5.62
26 05 33 23-0088	EA 4-3/4" Square x 1-3/8" Deep, Distribution Box (Wiremold #5735).....	29.42	5.62
26 05 33 23-0089	EA 4-3/8" Blank Cover (Wiremold #5736).....	13.91	3.52
26 05 33 23-0090	EA 4-3/4" Diameter, Extension Box/Open Base (Wiremold #5737).....	26.91	5.62
26 05 33 23-0091	EA 5-1/2" Diameter, Extension Box/Open Base (Wiremold #5737A).....	26.04	5.62
26 05 33 23-0092	EA 4-3/4" Diameter, Fixture Box/Solid Base (Wiremold #5738).....	26.24	5.62
26 05 33 23-0093	EA 5-1/2" Diameter, Fixture Box/Solid Base (Wiremold #5738A).....	26.24	5.62
26 05 33 23-0094	EA 5-1/2" Diameter, Fan Box/Solid Base (Wiremold #5738AF).....	29.42	5.62
26 05 33 23-0095	EA 6-3/8" Diameter, Fixture Box/Solid Base (Wiremold #5739).....	29.09	5.62
26 05 33 23-0096	EA 6-3/8" Diameter, Extension Box/Open Base (Wiremold #5739A).....	30.91	5.62
26 05 33 23-0097	EA Standard Switch Box For #500, Or #700 (Wiremold #57240).....	35.80	9.14
26 05 33 23-0098	EA Duplex Receptacle And Box, Ground, For #500 Or #700 (Wiremold #57243G).....	57.70	17.57
26 05 33 23-0099	EA 2-13/16" x 4-5/8" x 1-3/8" Switch And Receptacle Box For Shallow Type Switches (Wiremold #5741).....	27.80	9.14
26 05 33 23-0100	EA 1 Gang, 4-5/8" x 2-7/8" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744).....	42.23	9.14
26 05 33 23-0101	EA 2 Gang, 4-3/4" x 4-3/4" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-2).....	47.97	9.14
26 05 33 23-0102	EA 3 Gang, 4-5/8" x 6-1/2" x 2-3/4" Extra Deep Switch And Receptacle Box (Wiremold #5744-3).....	71.27	9.14
26 05 33 23-0103	EA 1 Gang, Signal Box (Wiremold #5744S).....	38.08	7.73
26 05 33 23-0104	EA 2 Gang, Signal Box (Wiremold #5744S-2).....	42.21	7.73
26 05 33 23-0105	EA 3 Gang, Signal Box (Wiremold #5744S-3).....	66.16	7.73
26 05 33 23-0106	EA 4-5/8" x 2-7/8" x 1-3/4" Combination Switch And Receptacle Box With 1/2" KO's (Wiremold #5745).....	28.89	9.14
26 05 33 23-0107	EA 4-5/8" x 2-7/8" x 1-3/8", 1 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747).....	25.76	9.14
26 05 33 23-0108	EA 4-3/4" x 4-3/4" x 1-3/8", 2 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-2).....	35.02	9.14
26 05 33 23-0109	EA 4-5/8" x 6-1/2" x 2-3/4", 3 Gang, Shallow Switch And Receptacle Box For Standard Shallow Devices (Wiremold #5747-3).....	65.32	9.14
26 05 33 23-0110	EA 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748).....	27.33	9.14
26 05 33 23-0111	EA 4-3/4" x 4-3/4" x 1-3/4", 2 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-2).....	36.90	9.14
26 05 33 23-0112	EA 4-5/8" x 6-1/2" x 1-3/4", 3 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-3).....	63.57	9.14
26 05 33 23-0113	EA 4-5/8" x 8-11/32" x 1-3/4", 4 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-4).....	92.91	9.14
26 05 33 23-0114	EA 4-5/8" x 10-5/32" x 1-3/4", 5 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-5).....	151.25	9.14
26 05 33 23-0115	EA 4-5/8" x 11-31/32" x 1-3/4", 6 Gang, Switch And Receptacle Box For Deep Devices (Wiremold #5748-6).....	153.86	9.14
26 05 33 23-0116	EA 4-3/8" x 2-7/8" x 15/16" Shallow Switch And Receptacle Box For Shallow Duplex Devices (Wiremold #5748-S).....	27.03	9.14
26 05 33 23-0117	EA 4-5/8" x 2-7/8" x 15/16", 1 Gang, Flush-Type Extension Adapter (Wiremold #5751).....	26.37	9.14
26 05 33 23-0118	EA 4-3/4" x 4-3/4" x 15/16", 2 Gang, Flush-Type Extension Adapter (Wiremold #5751-2).....	34.09	9.14
26 05 33 23-0119	EA 4-5/8" x 6-1/2" x 15/16", 3 Gang, Flush-Type Extension Adapter (Wiremold #5751-3).....	64.16	9.14
26 05 33 23-0120	EA 4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Deep Flush-Type Extension Adapter (Wiremold #5751A).....	28.26	9.14
26 05 33 23-0121	EA 4-11/16" x 4-11/16" x 1-3/8", 2 Gang, Alarm Device Box (Wiremold #5752).....	35.71	9.14
26 05 33 23-0122	EA 4-11/16" x 4-11/16" x 2-3/4", 2 Gang, Extra Deep Alarm Device Box (Wiremold #5753).....	50.13	9.14
26 05 33 23-0123	EA Blank Extension Box (Wiremold #5760).....	17.52	3.52
26 05 33 23-0124	EA 1/2" Special Nipple (Wiremold #5780).....	16.74	3.52
26 05 33 23-0125	EA 1/2" Box Connector (Wiremold #5781).....	11.52	3.52
26 05 33 23-0126	EA 3/4" Box Connector (Wiremold #5781A).....	20.96	4.22
26 05 33 23-0127	EA 1/2" Conduit Connector (Wiremold #5782).....	11.61	3.52
26 05 33 23-0128	EA 3/4" Conduit Connector (Wiremold #5782A).....	25.91	4.22
26 05 33 23-0129	EA 1/2" Elbow Conduit Connector (Wiremold #5784).....	23.36	4.22
26 05 33 23-0130	EA Combination Connector, To Any 3-1/4" Or 4" Outlet Box (Wiremold #5785).....	13.60	4.22
26 05 33 23-0131	EA Offset Connector (Wiremold #5786).....	21.78	4.22
26 05 33 23-0132	EA Armor Cable Connector (Wiremold #5790B).....	11.77	3.52
26 05 33 23-0133	EA 1/2" Electrical Metallic Tubing (EMT) Connector, For #500 Or 700 (Wiremold #5791).....	10.32	2.82

**26 05 33 23-0134 1-9/16" x 11/32" One Piece Surface Metal Raceways (Wiremold #1500)** (26 05 33 23-0057)

Note: Galvanized finish.

26 05 33 23-0135	LF 1-9/16" x 11/32" One Piece Surface Metal Raceway (Wiremold #1500-10).....	10.62	3.52
	<i>For Concrete Or Masonry Surface, Add</i>	0.35	
26 05 33 23-0136	EA Wire Clip (Wiremold #1500WC).....	6.81	2.82
26 05 33 23-0137	EA Bushing (Wiremold #1502).....	8.13	3.52
26 05 33 23-0138	EA 2-Hole Strap (Wiremold #1504).....	9.28	4.22
26 05 33 23-0139	EA Flat Elbow (Wiremold #1511).....	34.94	13.36
26 05 33 23-0140	EA Internal Elbow (Wiremold #1517).....	35.96	13.36
26 05 33 23-0141	EA Adapter Fitting (Wiremold #1517B).....	38.34	13.36
26 05 33 23-0142	EA External Elbow (Wiremold #1518).....	38.14	13.36
26 05 33 23-0143	EA Utility Box (Wiremold #1528).....	33.52	9.14
26 05 33 23-0144	EA Junction Box (Wiremold #1542D).....	34.48	9.14
26 05 33 23-0145	EA Duplex Receptacle (Wiremold #1543GL).....	67.45	17.57

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0146 EA Single Receptacle Box (Wiremold #1546A).....	35.42	9.14
26 05 33 23-0147 EA Duplex Receptacle Box (Wiremold #1546B).....	42.67	9.14
26 05 33 23-0148 EA Telephone Box (Wiremold #1546T).....	41.92	9.14
26 05 33 23-0149 EA Combination Connection (Wiremold #1585).....	20.20	4.22
<b>26 05 33 23-0150 2-7/32" x 28/32" One Piece Surface Metal Raceways (Wiremold #2600)</b> <small>(26 05 33 23-0057)</small>		
Note: Galvanized finish.		
26 05 33 23-0151 LF 2-7/32" x 28/32" One Piece Surface Metal Raceway (Wiremold #2600-10).....	18.32	6.32
For Concrete Or Masonry Surface, Add	0.63	
26 05 33 23-0152 EA Wire Clip (Wiremold #2600WC).....	6.98	2.82
26 05 33 23-0153 EA Fiber Bushing (Wiremold #2602).....	7.74	2.82
26 05 33 23-0154 EA 2-5/8", 90 Degree Flat Elbow (Wiremold #2611).....	26.79	4.92
26 05 33 23-0155 EA 5" Diameter, Junction Box (Wiremold #2642D).....	40.05	7.02
26 05 33 23-0156 EA Service Fitting (Wiremold #2686FO).....	39.54	8.44
<b>26 05 33 23-0157 Two Piece Surface Metal Raceways</b> <small>(26 05 33 23-0056)</small>		
Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
<b>26 05 33 23-0158 1-9/32" x 3/4" Two Piece Surface Metal Raceways (Wiremold #2000)</b> <small>(26 05 33 23-0157)</small>		
26 05 33 23-0159 LF 1-9/32" x 3/4" Two Piece Surface Metal Raceway Base And Cover (Wiremold #2000BC).....	10.51	3.52
For Concrete Or Masonry Surface, Add	0.35	
26 05 33 23-0160 EA Wire Clip (Wiremold #2000WC).....	5.12	2.82
26 05 33 23-0161 EA Coupling (Wiremold #2001).....	13.77	3.52
26 05 33 23-0162 EA Supporting Clip (Wiremold #2003).....	6.50	2.10
26 05 33 23-0163 EA Cover Clip (Wiremold #2006).....	6.05	2.10
26 05 33 23-0164 EA Ground Clamp (Wiremold #2009).....	15.33	3.52
26 05 33 23-0165 EA Entrance End Fitting (Wiremold #2010A2).....	31.01	10.54
26 05 33 23-0166 EA Entrance End Fitting (Wiremold #2010A3).....	52.28	14.06
26 05 33 23-0167 EA Blank End Fitting (Wiremold #2010B).....	8.36	3.52
26 05 33 23-0168 EA Flat 90 Degree Elbow (Wiremold #2011).....	26.70	9.14
26 05 33 23-0169 EA Tee (Wiremold #2015).....	48.30	13.22
26 05 33 23-0170 EA Internal Corner Coupling (Wiremold #2017TC).....	17.32	7.02
26 05 33 23-0171 EA Single Gang Device Box (Wiremold #2048).....	40.17	12.51
26 05 33 23-0172 EA 2-Gang device Box (Wiremold #2048-2).....	62.25	13.92
26 05 33 23-0173 EA Flush Plate Adapter (Wiremold #2051H).....	43.59	13.92
26 05 33 23-0174 EA Side Reducing Connector (Wiremold #2089).....	35.10	7.02
26 05 33 23-0175 EA #2089E End Reducing Connector.....	14.59	3.52
<b>26 05 33 23-0176 1-7/8" x 7/8" Two Piece Surface Metal Raceways (Wiremold #2400)</b> <small>(26 05 33 23-0157)</small>		
Note: Available in gray enamel (G) or ivory (V).		
26 05 33 23-0177 LF 1-7/8" x 7/8" Two Piece Surface Metal Raceway Base (Wiremold #2400B).....	9.01	3.52
For Concrete Or Masonry Surface, Add	0.35	
26 05 33 23-0178 LF 1-7/8" x 7/8" Divided Two Piece Surface Metal Raceway Base (Wiremold #2400BD).....	9.81	3.52
For Concrete Or Masonry Surface, Add	0.35	
26 05 33 23-0179 LF Raceway Cover (Wiremold #2400C).....	3.43	0.70
26 05 33 23-0180 EA Wire Clip (Wiremold #2400WC).....	5.09	2.82
26 05 33 23-0181 EA Coupling (Wiremold #2401).....	13.64	3.52
26 05 33 23-0182 EA Divided Raceway Coupling (Wiremold #2401D).....	10.84	3.52
26 05 33 23-0183 EA Cover Clip (Wiremold #2406).....	6.04	2.10
26 05 33 23-0184 EA Device Bracket Frame (Wiremold #2407-2CM).....	43.78	10.54
26 05 33 23-0185 EA Device Bracket Frame (Wiremold #2407-2TJ).....	42.04	10.54
26 05 33 23-0186 EA Ground Clamp (Wiremold #2409).....	11.31	2.82
26 05 33 23-0187 EA End Fitting (Wiremold #2410A).....	29.55	10.54
26 05 33 23-0188 EA Blank End (Wiremold #2410B).....	8.38	3.52
26 05 33 23-0189 EA Divided Blank End Fitting (Wiremold #2410BD).....	8.48	3.52
26 05 33 23-0190 EA Entrance End Fitting (Wiremold #2410C).....	43.59	10.54
26 05 33 23-0191 EA Divided Entrance End Fitting (Wiremold #2410D).....	41.91	10.54
26 05 33 23-0192 EA Divided Entrance End Fitting (Wiremold #2410DFO).....	67.07	10.54
26 05 33 23-0193 EA Full Cap Entrance End Fitting (Wiremold #2410FC).....	51.98	10.54
26 05 33 23-0194 EA Divided Flat 90 Degree Elbow (Wiremold #2411D).....	32.84	10.54
26 05 33 23-0195 EA Radiused Divided Flat 90 Degree Elbow (Wiremold #2411DFO).....	51.06	10.54
26 05 33 23-0196 EA Radiused Flat 90 Degree Elbow (Wiremold #2411FO).....	45.98	10.40
26 05 33 23-0197 EA Flat 90 Degree Elbow (Wiremold #2411M).....	31.42	10.54
26 05 33 23-0198 EA Radiused Divided Tee (Wiremold #2415DFO).....	54.58	10.40
26 05 33 23-0199 EA Radiused Tee (Wiremold #2415FO).....	52.03	10.40
26 05 33 23-0200 EA Tee (Wiremold #2415M).....	36.76	10.40
26 05 33 23-0201 EA Divided Internal Coupling (Wiremold #2417D).....	31.09	10.40
26 05 33 23-0202 EA Radiused Divided Internal Coupling (Wiremold #2417DFO).....	47.40	10.40
26 05 33 23-0203 EA Radiused Internal Coupling (Wiremold #2417FO).....	46.06	10.40
26 05 33 23-0204 EA Internal Coupling (Wiremold #2417M).....	30.20	10.40
26 05 33 23-0205 EA Radiused Divided External Coupling (Wiremold #2418DFO).....	51.31	10.40
26 05 33 23-0206 EA Radiused External Coupling (Wiremold #2418FO).....	50.51	10.40
26 05 33 23-0207 EA External Coupling (Wiremold #2418M).....	36.18	10.40
26 05 33 23-0208 EA 1 Gang, Extra Deep Switch And Receptacle (Wiremold #2444).....	46.58	9.14
26 05 33 23-0209 EA 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444-2).....	51.48	9.14
26 05 33 23-0210 EA Over Raceway, Extra Deep Switch And Receptacle Box, 2 Gang (Wiremold #2444-2LS).....	51.73	9.14





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0211	EA			Divided, 1 Gang, Extra Deep Switch And Receptacle (Wiremold #2444D) .....	49.66	9.14
26 05 33 23-0212	EA			Divided, 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444D-2A).....	69.22	9.14
26 05 33 23-0213	EA			Divided, Over Raceway, 2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #2444D-2N).....	61.18	9.14
26 05 33 23-0214	EA			4-5/8" x 2-7/8" x 1-3/4", 1 Gang, Switch And Receptacle Box For Shallow Devices (Wiremold #2448) .....	33.25	9.14
26 05 33 23-0215	EA			4-3/4" x 4-3/4" x 1-3/4", 2 Gang, Switch And Receptacle Box For Shallow Devices (Wiremold #2448-2) .....	50.39	9.14
26 05 33 23-0216	EA			Device Bracket Type Adapter Plate (Wiremold #2450).....	15.64	3.52
26 05 33 23-0217	EA			4-1/2" x 4-1/2" Back Feed Fitting (Wiremold #2451H).....	37.57	10.54
26 05 33 23-0218	EA			Bridge Fitting For 2400/700/500 (Wiremold #2475D) .....	107.12	10.54
26 05 33 23-0219	EA			Side Reducing Connector (Wiremold #2489) .....	31.77	5.62
<b>26 05 33 23-0220</b>				<b>2-3/4" x 1-17/32" Two Piece Surface Metal Raceways (Wiremold #3000)</b> (26 05 33 23-0157)		
				Note: Available in gray enamel (G) or ivory (V).		
26 05 33 23-0221	LF			2-3/4" x 1-17/32" Two Piece Surface Metal Raceway Base (Wiremold #3000B).....	17.00	6.32
				<i>For Concrete Or Masonry Surface, Add</i>	0.63	
26 05 33 23-0222	LF			Raceway Cover (Wiremold #3000CE) .....	3.66	0.70
26 05 33 23-0223	EA			Wire Clips For Conductors (Wiremold #3000WC) .....	6.35	2.82
26 05 33 23-0224	EA			Couplings (Wiremold #3001) .....	16.82	2.82
26 05 33 23-0225	EA			Rigid Inside Coupling (Wiremold #3001A).....	15.37	3.52
26 05 33 23-0226	EA			Supporting Clip (Wiremold #3003).....	11.77	3.52
26 05 33 23-0227	EA			Clip Cover (Wiremold #3006E).....	7.13	2.82
26 05 33 23-0228	EA			Device Brackets (Wiremold #3007C).....	17.67	5.62
26 05 33 23-0229	EA			C-Hanger (Wiremold #3008C).....	16.94	4.22
26 05 33 23-0230	EA			Entrance End Fitting For Connecting To 1/2" Conduit Or Armored Connectors (Wiremold #3010AE).....	41.10	13.36
26 05 33 23-0231	EA			Blank End Fittings (Wiremold #3010B).....	15.38	5.62
26 05 33 23-0232	EA			Entrance End Fitting For Connecting To Rigid Or Flexible Conduit (Wiremold #3010C).....	44.85	13.36
26 05 33 23-0233	EA			Flat 90 Degree Elbow (Wiremold #3011E) .....	66.16	17.42
26 05 33 23-0234	EA			Wall Box Connector (Wiremold #3014C).....	49.59	17.57
26 05 33 23-0235	EA			Tee Fitting (Wiremold #3015E).....	89.95	21.78
26 05 33 23-0236	EA			Internal Corner Coupling (Wiremold #3017TCE).....	43.96	13.36
26 05 33 23-0237	EA			External Corner (Wiremold #3018AE) .....	52.78	13.36
26 05 33 23-0238	EA			Single Receptacle Cover With Face Diameters Of 1.38" To 1.4" (Wiremold #3027AE) .....	39.46	13.36
26 05 33 23-0239	EA			Utility Box (Wiremold #3028) .....	62.53	13.36
26 05 33 23-0240	EA			Single Receptacle Cover With Face Diameters Of 1.56" To 1.57" (Wiremold #3033JE).....	19.81	3.52
26 05 33 23-0241	EA			Blank Cover (Wiremold #3036HE).....	21.52	3.52
26 05 33 23-0242	EA			Switch Cover (Wiremold #3040CE) .....	19.76	3.52
26 05 33 23-0243	EA			Duplex Receptacle Cover (Wiremold #3043BE).....	23.51	4.22
26 05 33 23-0244	EA			15 Amperes, 125 Volt Duplex Grounding Receptacle And Cover (Wiremold #3043GE).....	64.17	18.28
26 05 33 23-0245	EA			2 Gang, Extra Deep Switch And Receptacle Box (Wiremold #3044-2).....	69.64	13.36
26 05 33 23-0246	EA			Duplex Receptacle Cover (Wiremold #3046BE).....	20.23	4.22
26 05 33 23-0247	EA			Tap Off Fitting (Wiremold #3046H-2).....	22.87	8.52
26 05 33 23-0248	EA			1-15/16" Deep x 6" Long, Circuit Breaker Housing (Wiremold #3046KD).....	88.60	3.44
26 05 33 23-0249	EA			2-3/4" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046KTSQ).....	212.64	8.44
26 05 33 23-0250	EA			1-13/16" Deep x 7-3/8" Long, Circuit Breaker Housing (Wiremold #3046QOU).....	77.48	8.44
26 05 33 23-0251	EA			1-13/16" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046S).....	83.64	8.44
26 05 33 23-0252	EA			1-13/32" Deep x 7-15/16" Long x 2-13/16" Wide, Bump Up Device Plate Cover (Wiremold #3046U).....	83.64	8.44
26 05 33 23-0253	EA			Rectangular Receptacle Cover (Wiremold #3048R).....	27.06	4.22
<b>26 05 33 23-0254</b>				<b>4-3/4" x 1-3/4" Two Piece Surface Metal Raceways (Wiremold #4000)</b> (26 05 33 23-0157)		
				Note: Available in gray enamel (G) or ivory (V).		
26 05 33 23-0255	LF			4-3/4" x 1-3/4" Two Piece Surface Metal Raceway Base (Wiremold #4000B-10).....	20.52	6.32
				<i>For Concrete Or Masonry Surface, Add</i>	0.68	
26 05 33 23-0256	LF			Raceway Cover (Wiremold #4000C) .....	6.81	0.70
26 05 33 23-0257	LF			Divider (Wiremold #4000D) .....	3.46	0.70
26 05 33 23-0258	EA			Wire Clips For Conductors (Wiremold #4000WC) .....	7.65	3.52
26 05 33 23-0259	EA			Couplings (Wiremold #4001A).....	20.25	4.22
26 05 33 23-0260	EA			Divider Clip (Wiremold #4001D).....	10.08	4.22
26 05 33 23-0261	EA			Seam Clip (Wiremold #4006).....	10.22	4.22
26 05 33 23-0262	EA			Single Device Fitting (Wiremold #4007C-1R) .....	38.09	9.14
26 05 33 23-0263	EA			Blank End Fittings (Wiremold #4010B).....	21.05	5.62
26 05 33 23-0264	EA			Entrance End Fitting (Wiremold #4010DFO) .....	80.87	21.64
26 05 33 23-0265	EA			Flat 90 Degree Elbow (Wiremold #4011).....	74.11	17.57
26 05 33 23-0266	EA			Radiused Flat 90 Degree Elbow (Wiremold #4011FO).....	86.20	17.57
26 05 33 23-0267	EA			Internal Or External 45 Degree Elbow (Wiremold #4012TX) .....	81.81	21.78
26 05 33 23-0268	EA			Wall Box Connector (Wiremold #4014A) .....	105.99	21.78
26 05 33 23-0269	EA			Tee Fitting (Wiremold #4015).....	116.60	21.78
26 05 33 23-0270	EA			Divided Tee Fitting (Wiremold #4015D).....	120.86	21.78
26 05 33 23-0271	EA			Radiused Full Capacity Divided Tee Fitting (Wiremold #4015DFO) .....	142.55	21.78
26 05 33 23-0272	EA			Radiused Tee Fitting (Wiremold #4015FO) .....	142.97	21.78
26 05 33 23-0273	EA			Internal Elbow (Wiremold #4017).....	68.21	21.78
26 05 33 23-0274	EA			Internal Elbow (Wiremold #4017FO).....	114.73	21.78
26 05 33 23-0275	EA			Inverted Internal Elbow (Wiremold #4017N).....	74.60	21.78
26 05 33 23-0276	EA			Internal Corner Coupling (Wiremold #4017TCA) .....	64.83	21.78
26 05 33 23-0277	EA			External Elbow (Wiremold #4018).....	97.27	21.78
26 05 33 23-0278	EA			Radiused External Elbow (Wiremold #4018FO).....	111.41	21.78
26 05 33 23-0279	EA			Single Locking Receptacle And Two RJ11/45 Modular Connectors Outlet Cover (Wiremold #4046ARJ).....	90.35	9.14
26 05 33 23-0280	EA			Double Duplex Receptacle Outlet Cover (Wiremold #4046B-2).....	95.58	9.14
26 05 33 23-0281	EA			Duplex Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046DRJ).....	95.58	9.14
26 05 33 23-0282	EA			Double Duplex Receptacle And Four RJ11/45 Modular Connector Cover (Wiremold #4046DRJ-2).....	126.50	9.14

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0283 EA Tap-Off Fitting (Wiremold #4046H-2).....	29.57	9.14
26 05 33 23-0284 EA Combination Single Receptacle And Phone Outlet Center (Wiremold #4046JRJ) .....	80.51	4.22
26 05 33 23-0285 EA Rectangular Receptacle And Two RJ11/45 Modular Connector Cover (Wiremold #4046RRJ).....	97.74	9.14
26 05 33 23-0286 EA 1 Gang Device Plate (Wiremold #G4047C-1).....	28.48	9.14
26 05 33 23-0287 EA 2 Gang Device Plate (Wiremold #G4047C-2).....	32.75	9.14
26 05 33 23-0288 EA Device Mounting Bracket (Wiremold #4050).....	31.92	7.02
26 05 33 23-0289 EA #4000 To #3000 Take-off Connector (Wiremold #4074A) .....	144.61	21.78
26 05 33 23-0290 EA Bridge Fitting (Wiremold #4075D).....	131.21	21.78
26 05 33 23-0291 EA Bridge Fitting (Wiremold #4075DA).....	131.21	21.78
26 05 33 23-0292 EA Panel Connector (Wiremold #4086A) .....	115.52	41.46
26 05 33 23-0293 EA Reducing Connector Fitting (Wiremold #4089) .....	69.54	21.78
<b>26 05 33 23-0294 4-3/4" x 3-9/16" Two Piece Surface Metal Raceways (Wiremold #6000)</b> <small>(26 05 33 23-0157)</small>		
Note: Available in gray enamel (G) or ivory (V).		
26 05 33 23-0295 LF 4-3/4" x 3-9/16" Two Piece Surface Metal Raceway Base (Wiremold #6000B-10).....	28.40	7.73
<i>For Concrete Or Masonry Surface, Add</i>	0.77	
26 05 33 23-0296 LF Raceway Cover (Wiremold #6000C).....	7.94	2.10
26 05 33 23-0297 LF Divider (Wiremold #6000DA) .....	8.14	2.10
26 05 33 23-0298 EA Wire Clips For Conductors (Wiremold #6000WC) .....	8.51	3.52
26 05 33 23-0299 EA Couplings (Wiremold #6001A) .....	24.72	7.02
26 05 33 23-0300 EA Divider Clip (Wiremold #6001D) .....	11.25	3.52
26 05 33 23-0301 EA Converter Coupling (Wiremold #6001TX).....	30.87	9.14
26 05 33 23-0302 EA Connection Cover (Wiremold #6006).....	29.53	9.14
26 05 33 23-0303 EA Single Gang Device Plate (Wiremold #6007C-1).....	30.75	9.14
26 05 33 23-0304 EA Two Gang Device Plate (Wiremold #6007C-2).....	33.23	9.14
26 05 33 23-0305 EA C-Hanger (Wiremold #6008A) .....	48.34	13.36
26 05 33 23-0306 EA Blank End Fittings (Wiremold #6010B).....	55.40	21.08
26 05 33 23-0307 EA Combination Flat Elbow (Wiremold #6011TX).....	94.95	21.08
26 05 33 23-0308 EA Internal-External 45 Degree Elbow (Wiremold #6012TX).....	96.00	20.24
26 05 33 23-0309 EA Connector Fitting (Wiremold #6014A).....	133.49	21.78
26 05 33 23-0310 EA Combination Internal-External Elbow (Wiremold #6017TX).....	99.36	23.90
26 05 33 23-0311 EA Circuit Breaker Housing (Wiremold #6046KD).....	164.45	23.90
26 05 33 23-0312 EA #6000 To #6000 Take-off Connector (Wiremold #6074).....	157.74	21.08
26 05 33 23-0313 EA #6000 To #4000 Take-off Connector (Wiremold #6074A).....	169.82	21.08
26 05 33 23-0314 EA Panel Connector (Wiremold #6086).....	120.58	48.91
<b>26 05 33 23-0315 Two Piece Surface Aluminum Raceways</b> <small>(26 05 33 23-0056)</small>		
Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).		
<b>26 05 33 23-0316 1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceways (Wiremold #AL2000)</b> <small>(26 05 33 23-0315)</small>		
26 05 33 23-0317 LF 1-7/16" x 1-1/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2000B) .....	12.86	3.52
<i>For Concrete Or Masonry Surface, Add</i>	0.35	
26 05 33 23-0318 LF Aluminum Raceway Cover (Wiremold #AL2000C).....	6.03	0.70
26 05 33 23-0319 EA Wire Clip (Wiremold #AL2000WC) .....	6.39	2.82
26 05 33 23-0320 EA Coupling (Wiremold #AL2001).....	14.70	3.52
26 05 33 23-0321 EA Supporting Clip (Wiremold #AL2003).....	6.84	2.10
26 05 33 23-0322 EA Cover Clip (Wiremold #AL2006) .....	8.48	2.10
26 05 33 23-0323 EA Ground Clamp (Wiremold #AL2009).....	12.30	3.52
26 05 33 23-0324 EA Entrance End Fitting (Wiremold #AL2010A) .....	34.63	10.54
26 05 33 23-0325 EA Blank End Fitting (Wiremold #AL2010B).....	11.24	3.52
26 05 33 23-0326 EA Flat 90 Degree Elbow (Wiremold #AL2011).....	39.06	9.14
26 05 33 23-0327 EA Tee (Wiremold #AL2015).....	53.27	13.22
26 05 33 23-0328 EA Internal Corner Elbow (Wiremold #AL2017).....	34.87	7.02
26 05 33 23-0329 EA External Corner Elbow (Wiremold #AL2018) .....	34.80	7.02
26 05 33 23-0330 EA 2 To 15 Amperes, In-Line Receptacle (Wiremold #AL2043).....	57.85	13.92
26 05 33 23-0331 EA 4-13/16" Round Fixture Box (Wiremold #AL2038).....	126.81	12.51
26 05 33 23-0332 EA 4-1/2" x 3" x 2-1/4" D Box (Wiremold #AL2044).....	58.93	12.51
26 05 33 23-0333 EA 4-5/8" x 4-7/8" x 2-1/2" D Box (Wiremold #AL2044-2) .....	117.64	13.92
26 05 33 23-0334 EA Single Gang Shallow Device Box (Wiremold #AL2047).....	60.86	12.51
26 05 33 23-0335 EA 2-Gang Shallow Device Box (Wiremold #AL2047-2) .....	104.59	13.92
26 05 33 23-0336 EA Flush Plate Adapter (Wiremold #AL2051H).....	47.72	13.92
<b>26 05 33 23-0337 2" x 1-9/32" Two Piece Surface Aluminum Raceways (Wiremold #AL2400)</b> <small>(26 05 33 23-0315)</small>		
26 05 33 23-0338 LF 2" x 1-9/32" Two Piece Surface Aluminum Raceway Base (Wiremold #AL2400B).....	14.78	3.52
<i>For Concrete Or Masonry Surface, Add</i>	0.35	
26 05 33 23-0339 LF Aluminum Raceway Cover (Wiremold #AL2400C).....	6.55	0.70
26 05 33 23-0340 EA Wire Clip (Wiremold #AL2400WC) .....	8.76	2.82
26 05 33 23-0341 EA Coupling (Wiremold #AL2401).....	16.95	3.52
26 05 33 23-0342 EA Cover Clip (Wiremold #AL2406) .....	11.24	2.10
26 05 33 23-0343 EA Ground Clamp (Wiremold #AL2409).....	9.95	2.82
26 05 33 23-0344 EA Blank End (Wiremold #AL2410B) .....	12.68	3.52
26 05 33 23-0345 EA End Fitting (Wiremold #AL2410B2).....	27.93	10.54
26 05 33 23-0346 EA Flat 90 Degree Elbow (Wiremold #AL2411).....	48.85	10.54
26 05 33 23-0347 EA Tee (Wiremold #AL2415).....	53.03	10.40
26 05 33 23-0348 EA Fourway Fitting (Wiremold #AL2416).....	61.85	10.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0349 EA Internal Coupling (Wiremold #AL2417).....	48.68	10.40
26 05 33 23-0350 EA External Coupling (Wiremold #AL2418).....	52.22	10.40
26 05 33 23-0351 EA 4-1/2" x 4-1/2" Back Feed Fitting (Wiremold #AL2451H).....	43.85	10.54
<b>26 05 33 23-0352 2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceways (Wiremold #AL3300) (26 05 33 23-0315)</b>		
26 05 33 23-0353 LF 2-7/8" x 1-7/8" Two Piece Surface Aluminum Raceway Base (Wiremold #AL3300B).....	23.81	6.32
<i>For Concrete Or Masonry Surface, Add</i>	0.63	
26 05 33 23-0354 LF Aluminum Raceway Cover (Wiremold #AL3300CE).....	6.47	0.70
26 05 33 23-0355 LF Raceway Divider (Wiremold #AL3300D).....	5.39	6.32
26 05 33 23-0356 EA Wire Clips For Conductors (Wiremold #AL3300WC).....	10.89	2.82
26 05 33 23-0357 EA Couplings (Wiremold #AL3301).....	20.96	2.82
26 05 33 23-0358 EA Divider Coupling (Wiremold #AL3301D).....	16.62	3.52
26 05 33 23-0359 EA Ground Clamp (Wiremold #AL3309).....	11.39	2.82
26 05 33 23-0360 EA Blank End Fittings (Wiremold #AL3310B).....	23.58	5.62
26 05 33 23-0361 EA End Fitting (Wiremold #AL3310B1).....	40.29	13.36
26 05 33 23-0362 EA Flat 90 Degree Elbow (Wiremold #AL3311).....	111.67	17.42
<i>Note: Includes two (2) AL3301 couplings.</i>		
26 05 33 23-0363 EA Tee Fitting (Wiremold #AL3315).....	128.96	21.78
<i>Note: Includes three (3) AL3301 couplings.</i>		
26 05 33 23-0364 EA Cross Fitting (Wiremold #AL3316).....	144.51	21.78
<i>Note: Includes four (4) AL3301 couplings.</i>		
26 05 33 23-0365 EA Internal Elbow (Wiremold #AL3317).....	103.25	13.36
<i>Note: Includes two (2) AL3301 couplings.</i>		
26 05 33 23-0366 EA External Elbow (Wiremold #AL3318).....	103.35	13.36
<i>Note: Includes two (2) AL3301 couplings.</i>		
26 05 33 23-0367 EA Duplex Receptacle Cover (Wiremold #AL3346D).....	23.51	4.22
26 05 33 23-0368 EA Single Receptacle Cover (Wiremold #AL3346E).....	23.37	4.22
26 05 33 23-0369 EA GFCI/ Surge Receptacle Cover (Wiremold #AL3346G).....	23.14	4.22
26 05 33 23-0370 EA Single Device Cover Plate (Wiremold #AL3356R).....	22.82	3.52
<b>26 05 33 23-0371 5" x 2" Two Piece Surface Aluminum Raceways (Wiremold #AL5200) (26 05 33 23-0315)</b>		
26 05 33 23-0372 LF 5" x 2" Two Piece Surface Aluminum Raceway Base (Wiremold #AL5200B-10).....	26.65	6.32
<i>For Concrete Or Masonry Surface, Add</i>	0.68	
26 05 33 23-0373 LF Aluminum Raceway Cover (Wiremold #AL5200C).....	10.00	0.70
26 05 33 23-0374 LF Divider (Wiremold #AL5200D).....	6.01	0.70
26 05 33 23-0375 EA Wire Clips For Conductors (Wiremold #AL5200WC).....	8.72	3.52
26 05 33 23-0376 EA Wire Clips For Conductors (Wiremold #AL5200WC2).....	7.56	3.52
26 05 33 23-0377 EA Wire Clips For Conductors (Wiremold #AL5200WC3).....	7.52	3.52
26 05 33 23-0378 EA Couplings (Wiremold #AL5201).....	18.59	4.22
26 05 33 23-0379 EA Cover Clip (Wiremold #AL5206).....	15.50	4.22
26 05 33 23-0380 EA Ground Adapter (Wiremold #AL5209).....	20.05	4.22
26 05 33 23-0381 EA Blank End Fittings (Wiremold #AL5210B).....	20.42	5.62
26 05 33 23-0382 EA Blank End Fittings (Wiremold #AL5210B1).....	21.63	5.62
26 05 33 23-0383 EA Blank End Fittings (Wiremold #AL5210B2).....	21.89	5.62
26 05 33 23-0384 EA Blank End Fittings (Wiremold #AL5210B3).....	21.35	5.62
26 05 33 23-0385 EA Flat 90 Degree Elbow (Wiremold #AL5211).....	103.24	17.57
<i>Note: Includes two (2) pairs of AL5201 couplings.</i>		
26 05 33 23-0386 EA Wall Box Connector (Wiremold #AL5214).....	86.79	21.78
26 05 33 23-0387 EA Tee Fitting (Wiremold #AL5215).....	121.66	21.78
<i>Note: Includes three (3) pairs of AL5201 couplings.</i>		
26 05 33 23-0388 EA Four Way Fitting (Wiremold #AL5216).....	131.98	21.78
<i>Note: Includes four (4) pairs of AL5201 couplings.</i>		
26 05 33 23-0389 EA Internal Elbow (Wiremold #AL5217).....	109.66	21.78
<i>Note: Includes two (2) pairs of AL5201 couplings.</i>		
26 05 33 23-0390 EA Internal Corner Coupling (Wiremold #AL5217A).....	55.32	21.78
26 05 33 23-0391 EA Inverted Internal Elbow (Wiremold #AL5217N).....	112.28	21.78
26 05 33 23-0392 EA External Elbow (Wiremold #AL5218).....	110.47	21.78
<i>Note: Includes two (2) pairs of AL5201 couplings.</i>		
26 05 33 23-0393 EA Blank Device Cover Plate (Wiremold #AL5246B).....	23.37	4.22
26 05 33 23-0394 EA Receptacle Device Cover Plate (Wiremold #AL5246D).....	27.15	4.22
26 05 33 23-0395 EA Double Receptacle Device Cover Plate (Wiremold #AL5246DD).....	31.67	4.22
26 05 33 23-0396 EA Device Cover Plate (Wiremold #AL5246F).....	29.88	4.22
26 05 33 23-0397 EA Device Cover Plate (Wiremold #AL5246G).....	27.82	4.22
26 05 33 23-0398 EA Offset Divider (Wiremold #AL5260).....	28.23	9.14
<b>26 05 33 23-0399 3" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA3800) (26 05 33 23-0315)</b>		
26 05 33 23-0400 LF Single Channel, 3" x 2-1/4" Two Piece Surface Aluminum Raceway Base (Wiremold #ALA3800B-10).....	24.25	6.32
26 05 33 23-0401 EA Cover Clip (Wiremold #ALA3806).....	12.27	4.22
26 05 33 23-0402 EA Blank End Fittings (Wiremold #ALA3810B).....	20.27	5.62
26 05 33 23-0403 EA Entrance End Cap Fittings (Wiremold #ALA3810B1).....	21.49	5.62
26 05 33 23-0404 EA Flat 90 Degree Elbow (Wiremold #ALA3811).....	102.29	17.57
<i>Note: Includes two (2) ALA01 couplings.</i>		
26 05 33 23-0405 EA Flat Tee Fitting (Wiremold #ALA3815).....	108.08	21.78
<i>Note: Includes three (3) ALA01 couplings.</i>		
26 05 33 23-0406 EA Internal Elbow (Wiremold #ALA3817).....	105.77	21.78
<i>Note: Includes two (2) ALA01 couplings.</i>		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0407 EA Inverted Internal Elbow (Wiremold #ALA3817N) ..... Note: Includes two (2) ALA01 couplings.	121.81	21.78
26 05 33 23-0408 EA External Elbow (Wiremold #ALA3818)..... Note: Includes two (2) ALA01 couplings.	106.96	21.78
<b>26 05 33 23-0409 6" x 2-1/4" Two Piece Surface Aluminum Raceways (Wiremold #ALA4800)</b> <small>(26 05 33 23-0315)</small>		
26 05 33 23-0410 LF Two Channel, 6" x 2-1/4" Two Piece Surface Aluminum Raceway Base (Wiremold #ALA4800B-10).....	33.69	6.32
26 05 33 23-0411 EA Cover Clip (Wiremold #ALA4806).....	15.57	4.22
26 05 33 23-0412 EA Blank End Fittings (Wiremold #ALA4810B).....	20.46	5.62
26 05 33 23-0413 EA Entrance End Cap Fittings (Wiremold #ALA4810B2).....	22.28	5.62
26 05 33 23-0414 EA Flat 90 Degree Elbow (Wiremold #ALA4811)..... Note: Includes four (4) ALA01 couplings.	118.44	17.57
26 05 33 23-0415 EA Flat Tee Fitting (Wiremold #ALA4815)..... Note: Includes six (6) ALA01 couplings.	160.34	21.78
26 05 33 23-0416 EA Internal Elbow (Wiremold #ALA4817)..... Note: Includes four (4) ALA01 couplings.	113.78	21.78
26 05 33 23-0417 EA Inverted Internal Elbow (Wiremold #ALA4817N)..... Note: Includes four (4) ALA01 couplings.	130.94	21.78
26 05 33 23-0418 EA External Elbow (Wiremold #ALA4818)..... Note: Includes four (4) ALA01 couplings.	118.61	21.78
<b>26 05 33 23-0419 Two Piece Surface Aluminum Raceways Fittings (Wiremold #ALA3800 And #ALA4800)</b> <small>(26 05 33 23-0315)</small> See CSI section 26 27 26 00-0010 for receptacles.		
26 05 33 23-0420 LF 3" Wide Aluminum Raceway Cover (Wiremold #ALAC-5)..... Note: For use with ALA3800 single channel raceway and ALA4800 dual channel raceway.	7.22	0.70
26 05 33 23-0421 EA Wire Clips (Wiremold #ALAWC).....	7.16	3.52
26 05 33 23-0422 EA Slide Couplings (Wiremold #ALA01).....	18.75	4.22
26 05 33 23-0423 EA Grounding Adapter (Wiremold #ALA09).....	16.73	4.22
26 05 33 23-0424 EA Bend Radius Control Insert For Flat Elbow (Wiremold #ALA11R1).....	45.81	17.57
26 05 33 23-0425 EA Internal Corner Coupling (Wiremold #ALA17A).....	55.29	21.78
26 05 33 23-0426 EA Bend Radius Control Insert For Internal And External Elbow (Wiremold #ALA17/18R1).....	49.43	17.57
26 05 33 23-0427 EA Blank Cover Plate (Wiremold #ALA-BL).....	18.20	4.22
26 05 33 23-0428 EA Duplex Receptacle Cover Plate (Wiremold #ALA-DR).....	19.19	4.22
26 05 33 23-0429 EA Single Receptacle Cover Plate, 1.40" Diameter Opening (Wiremold #ALA-E).....	19.84	4.22
26 05 33 23-0430 EA Single Receptacle Cover Plate, 1.59" Diameter Opening (Wiremold #ALA-F).....	26.55	4.22
26 05 33 23-0431 EA GFCI/Surge/Decorator Cover Plate (Wiremold #ALA-G).....	19.32	4.22
26 05 33 23-0432 EA Single Receptacle Cover Plate, 2.13" Diameter Opening (Wiremold #ALA-J).....	19.86	4.22
26 05 33 23-0433 EA Toggle Switch Cover Plate (Wiremold #ALA-N).....	20.28	4.22
26 05 33 23-0434 EA Active LPB Cover Plate (Wiremold #ALA-LPB).....	25.09	4.22
26 05 33 23-0435 EA Active MAB Cover Plate (Wiremold #ALA-MAB).....	23.78	4.22
26 05 33 23-0436 EA Ortronics Cover Plate (Wiremold #ALA-MABRT).....	26.91	4.22
26 05 33 23-0437 EA 1-3/4" x 2-3/4" Cover Plate (Wiremold #ALA-SG).....	25.39	4.22
26 05 33 23-0438 EA Active 2A Cover Plate (Wiremold #ALA-2A).....	26.11	4.22
26 05 33 23-0439 EA Ortronics Communications Cover Plate (Wiremold #ALA-ABRT).....	24.17	4.22
26 05 33 23-0440 EA 3/4" Grommet/Mousehole Cover Plate (Wiremold #ALA-Z).....	20.24	4.22
26 05 33 23-0441 EA Ortronics Low Profile Cover Plate (Wiremold #ALA-LPB3S2).....	24.35	4.22
<b>26 05 33 23-0442 Surface Non-Metallic Raceways</b> <small>(26 05 33 23-0001)</small> Note: Exposed on flat wall surface.		
<b>26 05 33 23-0443 One Piece Surface Non-Metallic Raceways</b> <small>(26 05 33 23-0442)</small> Note: Exposed on flat wall surface. (Wiremold or approved equal).		
<b>26 05 33 23-0444 7/8" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #400)</b> <small>(26 05 33 23-0443)</small>		
26 05 33 23-0445 LF 7/8" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #400BAC)..... <i>For Concrete Or Masonry Surface, Add</i>	8.24 0.28	2.82
26 05 33 23-0446 EA Wire Clip (Wiremold #400WC).....	6.17	2.82
26 05 33 23-0447 EA Cover Clip (Wiremold #406).....	6.53	2.82
26 05 33 23-0448 EA Blank End Clip (Wiremold #410B).....	12.53	5.62
26 05 33 23-0449 EA Flat 90 Degree Elbow (Wiremold #411).....	14.72	5.62
26 05 33 23-0450 EA Tee (Wiremold #415).....	18.53	7.02
26 05 33 23-0451 EA Internal Elbow (Wiremold #417).....	14.44	5.62
26 05 33 23-0452 EA External Elbow (Wiremold #418).....	14.44	5.62
<b>26 05 33 23-0453 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceways (Wiremold #800)</b> <small>(26 05 33 23-0443)</small>		
26 05 33 23-0454 LF 1-5/16" x 7/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #800BAC)..... <i>For Concrete Or Masonry Surface, Add</i>	8.61 0.28	2.82
26 05 33 23-0455 EA Wire Clip (Wiremold #800WC).....	6.12	2.82
26 05 33 23-0456 EA Cover Clip (Wiremold #806).....	6.23	2.82
26 05 33 23-0457 EA Entrance End Fitting (Wiremold #810A2).....	17.89	5.62
26 05 33 23-0458 EA Blank End Fitting (Wiremold #810B).....	12.32	5.62
26 05 33 23-0459 EA Flat 90 Degree Elbow (Wiremold #811).....	13.93	5.62
26 05 33 23-0460 EA Tee (Wiremold #815).....	17.49	7.02
26 05 33 23-0461 EA Internal Elbow (Wiremold #817).....	13.69	5.62
26 05 33 23-0462 EA External Elbow (Wiremold #818).....	13.69	5.62



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 33	23-0463	EA	End Reducer, #800 To #400 (Wiremold #889A).....	15.21	5.62
<b>26 05 33 23-0464</b>				<b>2-1/4" x 11/16" One Piece Surface Non-Metallic Raceways (Wiremold #2300)</b> <small>(26 05 33 23-0443)</small>		
	26 05 33	23-0465	LF	2-1/4" x 11/16" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2300BAC).....	9.80	2.82
				<i>For Concrete Or Masonry Surface, Add</i>	0.28	
	26 05 33	23-0466	LF	2-1/4" x 11/16" One Piece Surface Non-Metallic Divided Raceway Base And Cover (Wiremold #2300BACD).....	10.37	2.82
				<i>For Concrete Or Masonry Surface, Add</i>	0.28	
	26 05 33	23-0467	EA	Wire Clip (Wiremold #2300WC).....	6.37	2.82
	26 05 33	23-0468	EA	Cover Clip (Wiremold #2306).....	6.66	2.82
	26 05 33	23-0469	EA	Entrance End Fitting (Wiremold #2310A).....	19.31	5.62
	26 05 33	23-0470	EA	Blank End Fitting (Wiremold #2310B).....	12.88	5.62
	26 05 33	23-0471	EA	Divided Entrance End Fitting (Wiremold #2310DFO).....	21.50	5.62
	26 05 33	23-0472	EA	Flat 90 Degree Elbow (Wiremold #2311).....	14.17	5.62
	26 05 33	23-0473	EA	Divided Flat 90 Degree Elbow (Wiremold #2311DFO).....	15.10	5.62
	26 05 33	23-0474	EA	Tee (Wiremold #2315).....	17.64	7.02
	26 05 33	23-0475	EA	Internal Elbow (Wiremold #2317).....	14.17	5.62
	26 05 33	23-0476	EA	Divided Internal Elbow (Wiremold #2317DFO).....	15.11	5.62
	26 05 33	23-0477	EA	External Elbow (Wiremold #2318).....	14.20	5.62
	26 05 33	23-0478	EA	Divided External Elbow (Wiremold #2318DFO).....	15.28	5.62
	26 05 33	23-0479	EA	End Reducer, #2300 To #400 (Wiremold #2389).....	15.29	5.62
	26 05 33	23-0480	EA	End Reducer, #2300 To #800 (Wiremold #2389A).....	15.89	5.62
<b>26 05 33 23-0481</b>				<b>One Piece Surface Non-Metallic Raceway Fittings (Wiremold #400, #800 Or #2300)</b> <small>(26 05 33 23-0443)</small>		
	26 05 33	23-0482	EA	Blank Cover, 4-1/2" Diameter (Wiremold #2336).....	16.61	4.92
	26 05 33	23-0483	EA	Extension Box, 5-1/2" Diameter (Wiremold #2337A).....	26.48	5.62
	26 05 33	23-0484	EA	-A Fixture Box, 5-1/2" Diameter (Wiremold #233).....	26.62	5.62
	26 05 33	23-0485	EA	Extra Deep Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344).....	24.19	5.62
	26 05 33	23-0486	EA	Extra Deep Device Box, 2 Gang, 2-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344-2).....	27.76	5.62
	26 05 33	23-0487	EA	Extra Deep Divided Device Box, 1 Gang, 2-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2344D).....	26.21	5.62
	26 05 33	23-0488	EA	Deep Divided Device Box, 2 Gang, 2-1/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2344SD-2A).....	28.32	5.62
	26 05 33	23-0489	EA	1-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2347).....	25.25	9.14
	26 05 33	23-0490	EA	2-Gang Standard Device Box, 1-3/8" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2347-2).....	28.39	9.14
	26 05 33	23-0491	EA	1-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348).....	26.17	9.14
	26 05 33	23-0492	EA	2-Gang Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 4-7/8" Wide (Wiremold #2348-2).....	30.90	9.14
	26 05 33	23-0493	EA	3-Gang Deep Device Box, 1-3/4" Deep x 5" Long x 7" Wide (Wiremold #2348-3).....	36.40	9.14
	26 05 33	23-0494	EA	1-Gang Deep Device Box With Magnetic Backing, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348AMP).....	34.65	9.14
	26 05 33	23-0495	EA	1-Gang Divided Deep Device Box, 1-3/4" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348D).....	31.65	9.14
	26 05 33	23-0496	EA	Shallow Device And Extension Box, 7/8" Deep x 4-3/4" Long x 3" Wide (Wiremold #2348S/51).....	24.78	9.14
<b>26 05 33 23-0497</b>				<b>3/4" x 3/8" One Piece Surface Non-Metallic Raceways (Wiremold #2700)</b> <small>(26 05 33 23-0443)</small>		
	26 05 33	23-0498	LF	3/4" x 3/8" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2700).....	7.34	2.82
				<i>For Concrete Or Masonry Surface, Add</i>	0.28	
	26 05 33	23-0499	EA	3/4" Wire Clip (Wiremold #2700WC).....	3.19	1.40
	26 05 33	23-0500	EA	Cover Clip (Wiremold #2706).....	4.65	1.40
	26 05 33	23-0501	EA	Blank End (Wiremold #2710B).....	7.43	2.82
	26 05 33	23-0502	EA	Flat 90 Degree Elbow (Wiremold #2711).....	8.88	3.52
	26 05 33	23-0503	EA	Tee (Wiremold #2715).....	14.52	6.32
	26 05 33	23-0504	EA	Internal Elbow (Wiremold #2717).....	10.30	4.22
	26 05 33	23-0505	EA	External Elbow (Wiremold #2718).....	10.28	4.22
	26 05 33	23-0506	EA	Drop Ceiling Connector (Wiremold #2786).....	12.13	4.92
<b>26 05 33 23-0507</b>				<b>1" x 1/2" One Piece Surface Non-Metallic Raceways (Wiremold #2800)</b> <small>(26 05 33 23-0443)</small>		
	26 05 33	23-0508	LF	1" x 1/2" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2800).....	9.25	3.52
				<i>For Concrete Or Masonry Surface, Add</i>	0.35	
	26 05 33	23-0509	EA	1" Wire Clip (Wiremold #2800WC).....	4.70	2.10
	26 05 33	23-0510	EA	Cover Clip (Wiremold #2806).....	6.02	2.10
	26 05 33	23-0511	EA	Blank End (Wiremold #2810B).....	8.82	3.52
	26 05 33	23-0512	EA	Flat 90 Degree Elbow (Wiremold #2811).....	11.73	4.92
	26 05 33	23-0513	EA	Radiused Flat 90 Degree Elbow (Wiremold #2811FO).....	12.38	4.92
	26 05 33	23-0514	EA	Tee (Wiremold #2815).....	17.35	7.73
	26 05 33	23-0515	EA	Internal Elbow (Wiremold #2817).....	13.10	5.62
	26 05 33	23-0516	EA	External Elbow (Wiremold #2818).....	13.13	5.62
	26 05 33	23-0517	EA	Radiused Tee (Wiremold #2815FO).....	18.22	7.73
	26 05 33	23-0518	EA	Radiused Internal Elbow (Wiremold #2817FO).....	13.89	5.62
	26 05 33	23-0519	EA	Radiused External Elbow (Wiremold #2818FO).....	13.78	5.62
	26 05 33	23-0520	EA	Drop Ceiling Connector (Wiremold #2886).....	14.78	6.32
	26 05 33	23-0521	EA	Reducer, #2800 To #2700 (Wiremold #2889).....	13.28	5.62
<b>26 05 33 23-0522</b>				<b>1-1/2" x 3/4" One Piece Surface Non-Metallic Raceways (Wiremold #2900)</b> <small>(26 05 33 23-0443)</small>		
	26 05 33	23-0523	LF	1-1/2" x 3/4" One Piece Surface Non-Metallic Raceway Base And Cover (Wiremold #2900).....	11.22	4.22
				<i>For Concrete Or Masonry Surface, Add</i>	0.42	
	26 05 33	23-0524	EA	1-1/2" Wire Clip (Wiremold #2900WC).....	6.21	2.82

**26 Electrical****26 05 Common Work Results for Electrical****26 05 33 Raceway and Boxes for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0525	EA		Cover Clip (Wiremold #2906).....	7.55	2.82
26 05 33 23-0526	EA		Blank End (Wiremold #2910B).....	10.37	4.22
26 05 33 23-0527	EA		Flat 90 Degree Elbow (Wiremold #2911).....	13.18	5.62
26 05 33 23-0528	EA		Radiused Flat 90 Degree Elbow (Wiremold #2911FO).....	14.20	5.62
26 05 33 23-0529	EA		Tee (Wiremold #2915).....	18.80	8.44
26 05 33 23-0530	EA		Radiused Tee (Wiremold #2915FO).....	19.85	8.44
26 05 33 23-0531	EA		Radiused External Elbow (Wiremold #2918FO).....	15.95	6.32
26 05 33 23-0532	EA		Internal Elbow (Wiremold #2917).....	14.59	6.32
26 05 33 23-0533	EA		Radiused Internal Elbow (Wiremold #2917FO).....	15.66	6.32
26 05 33 23-0534	EA		External Elbow (Wiremold #2918).....	14.58	6.32
26 05 33 23-0535	EA		Drop Ceiling Connector (Wiremold #2986).....	14.76	6.32
26 05 33 23-0536	EA		Reducer, #2900 To #2800 (Wiremold #2989).....	16.41	7.02
26 05 33 23-0537	EA		Reducer, #2900 To #2700 (Wiremold #2989A).....	16.06	7.02
<b>26 05 33 23-0538</b>			<b>Two Piece Surface Non-Metallic Raceways</b> (26 05 33 23-0442)		
			Note: Exposed on flat wall surface. (Wiremold or approved equal).		
<b>26 05 33 23-0539</b>			<b>5" x 1" Two Piece Surface Non-Metallic Raceways (Wiremold #500)</b> (26 05 33 23-0538)		
26 05 33 23-0540	LF		5" x 1" Two Piece Surface Non-Metallic Raceway Base (Wiremold #5000B).....	17.67	6.32
			For Concrete Or Masonry Surface, Add	0.63	
26 05 33 23-0541	LF		Black, Gray Or White, Cover (Wiremold #5000C).....	16.90	6.32
26 05 33 23-0542	LF		Oak Veneer, Cover (Wiremold #5000COA).....	29.92	6.32
26 05 33 23-0543	LF		Maple Wood Veneer, Cover (Wiremold #5000CW).....	24.77	6.32
26 05 33 23-0544	LF		Black, Gray Or White, Quarter Round Trim (Wiremold #5000T).....	2.32	0.70
26 05 33 23-0545	LF		Oak Veneer, Quarter Round Trim (Wiremold #5000TOA).....	8.85	0.70
26 05 33 23-0546	LF		Maple Wood Veneer, Quarter Round Trim (Wiremold #5000TW).....	5.58	0.70
26 05 33 23-0547	EA		Base Coupling (Wiremold #5001).....	16.70	7.02
26 05 33 23-0548	EA		Blank/Coax Adapter (Wiremold #5004).....	9.21	3.52
26 05 33 23-0549	EA		Low Voltage Blank Plate (Wiremold #5005).....	12.16	4.22
26 05 33 23-0550	EA		Cover Clip (Wiremold #5006).....	17.79	7.02
26 05 33 23-0551	EA		Internal Wire Guard (Wiremold #5006A).....	16.80	7.02
26 05 33 23-0552	EA		Device Bracket (Wiremold #5007C).....	18.84	7.02
26 05 33 23-0553	EA		Device Plate (Wiremold #5007C-1).....	34.57	14.06
26 05 33 23-0554	EA		Deep Device Plate (Wiremold #5007C-2).....	35.62	14.06
26 05 33 23-0555	EA		Right Or Left End Cap (Wiremold #5010).....	30.53	13.36
26 05 33 23-0556	EA		Entrance End Feed (Wiremold #5010A).....	57.71	21.78
26 05 33 23-0557	EA		Internal Base Elbow (Wiremold #5017B).....	40.93	17.57
26 05 33 23-0558	EA		Internal Cover Elbow (Wiremold #5017C).....	36.32	14.06
26 05 33 23-0559	EA		Internal Elbow Wire Guard (Wiremold #5017WG).....	25.19	10.54
26 05 33 23-0560	EA		External Base Elbow (Wiremold #5018B).....	40.86	17.57
26 05 33 23-0561	EA		External Cover Elbow (Wiremold #5018C).....	36.60	14.06
26 05 33 23-0562	EA		External Elbow Wire Guard (Wiremold #5018WG).....	16.52	7.02
<b>26 05 33 23-0563</b>			<b>5-1/4" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5400)</b> (26 05 33 23-0538)		
26 05 33 23-0564	LF		5-1/4" x 1-11/16", Two Compartment, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5400TB).....	18.71	6.32
			For Concrete Or Masonry Surface, Add	0.63	
26 05 33 23-0565	LF		Full Width Cover (Wiremold #5400C).....	5.84	0.70
26 05 33 23-0566	LF		Twin Snap Cover (Wiremold #5400TC).....	3.87	0.70
26 05 33 23-0567	EA		Twin Snap Cover Wire Clips (Wiremold #5400TWC).....	7.67	3.52
26 05 33 23-0568	EA		Cover Clip (Wiremold #5406A).....	12.20	4.22
26 05 33 23-0569	EA		Twin Cover Clip (Wiremold #5406T).....	10.57	4.22
26 05 33 23-0570	EA		Base Seam Clip (Wiremold #5406TB).....	9.65	4.22
26 05 33 23-0571	EA		L Or R (Left Or Right) Transition Fitting (Wiremold #5408).....	68.55	21.78
26 05 33 23-0572	EA		End Cap (Wiremold #5410).....	34.76	13.36
26 05 33 23-0573	EA		Radiused Divided Entrance Cap Fitting (Wiremold #5410DFO).....	66.13	21.78
26 05 33 23-0574	EA		Radiused Flat 90 Degree Elbow (Wiremold #5411FO).....	59.37	17.57
26 05 33 23-0575	EA		Tee Fitting (Wiremold #5415).....	69.13	21.78
26 05 33 23-0576	EA		Radiused Tee Fitting (Wiremold #5415FO).....	71.94	21.78
26 05 33 23-0577	EA		Radiused Internal Elbow (Wiremold #5417FO).....	58.82	21.78
26 05 33 23-0578	EA		External Elbow (Wiremold #5418).....	59.52	21.78
26 05 33 23-0579	EA		Radiused External Elbow (Wiremold #5418FO).....	60.17	21.78
26 05 33 23-0580	EA		5-5/32" x 6" Device Bracket (Wiremold #5450).....	26.96	7.02
26 05 33 23-0581	EA		7-19/32" x 7-1/2" Device Bracket (Wiremold #5450A3).....	34.63	7.02
26 05 33 23-0582	EA		2-1/2" x 4-7/8" Twin Snap Device Bracket (Wiremold #5450T).....	21.29	7.02
26 05 33 23-0583	EA		Transition Fitting (Wiremold #5474).....	61.49	21.78
<b>26 05 33 23-0584</b>			<b>6-11/16" x 1-11/16" Two Piece Surface Non-Metallic Raceways (Wiremold #5500)</b> (26 05 33 23-0538)		
26 05 33 23-0585	LF		6-11/16" x 1-11/16", Three Compartment Divided, Two Piece Surface Non-Metallic Raceway Base (Wiremold #5500BD3).....	22.64	6.32
			For Concrete Or Masonry Surface, Add	0.63	
26 05 33 23-0586	LF		Cover (Wiremold #5500C).....	7.53	0.70
26 05 33 23-0587	EA		Wire Clips (Wiremold #5500WC).....	8.68	3.52
26 05 33 23-0588	EA		Cover Clip (Wiremold #5506).....	13.45	4.22
26 05 33 23-0589	EA		Base Seam Clip Fitting (Wiremold #5506B).....	10.07	4.22
26 05 33 23-0590	EA		Modular Furniture Adapter (Wiremold #5507AD).....	12.67	4.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 33 23-0591 EA Blank Faceplate (Wiremold #5507B) .....	12.71	4.22
26 05 33 23-0592 EA Duplex Receptacle Faceplate (Wiremold #5507D).....	12.77	4.22
26 05 33 23-0593 EA Dual RJ Connector Faceplate (Wiremold #5507FRJ).....	12.77	4.22
26 05 33 23-0594 EA Rectangular Receptacle Faceplate (Wiremold #5507R).....	12.65	4.22
26 05 33 23-0595 EA Dual RJ Connector Faceplate (Wiremold #5507RJ).....	12.68	4.22
26 05 33 23-0596 EA Rectangular Spacer Fitting (Wiremold #5507S).....	12.60	4.22
26 05 33 23-0597 EA Switch Faceplate (Wiremold #5507SW) .....	12.63	4.22
26 05 33 23-0598 EA Twistlock Faceplate (Wiremold #5507T1).....	12.71	4.22
26 05 33 23-0599 EA Single Receptacle Faceplate (Wiremold #5507T2).....	12.48	4.22
26 05 33 23-0600 EA 6-5/8" x 6" Device Bracket (Wiremold #5550).....	31.50	7.02
26 05 33 23-0601 EA 9-5/8" x 7-1/2" Device Bracket (Wiremold #5550A4).....	41.32	7.02
26 05 33 23-0602 EA End Cap (Wiremold #5510) .....	37.16	13.36
26 05 33 23-0603 EA Entrance End Fitting (Wiremold #5510D).....	73.80	21.78
26 05 33 23-0604 EA Radiused Flat 90 Degree Elbow (Wiremold #5511FO).....	66.41	17.57
26 05 33 23-0605 EA Backfeed Connector (Wiremold #5514A) .....	54.82	17.57
26 05 33 23-0606 EA Tee Fitting (Wiremold #5515) .....	77.13	21.78
26 05 33 23-0607 EA Radiused Internal Elbow (Wiremold #5517FO).....	63.71	21.78
26 05 33 23-0608 EA External Elbow (Wiremold #5518) .....	65.05	21.78
26 05 33 23-0609 EA Radiused External Elbow (Wiremold #5518FO).....	67.88	21.78
26 05 33 23-0610 EA Transition Fitting (Wiremold #5574).....	62.35	21.78
26 05 33 23-0611 EA Transition Fitting (Wiremold #5574A) .....	80.70	21.78
<b>26 05 33 23-0612 Surface Cable Protection System</b> (26 05 33 23)		
26 05 33 23-0613 EA 35-1/2" Long x 18-9/16" Wide x 3" High, Three Channel, Heavy Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-3).....	626.44	
Note: Modular interlocking design with hinged lid.		
26 05 33 23-0614 EA 35-3/4" Long x 19-3/4" Wide x 1-7/8" High, Five Channel, Heavy Duty Polyurethane, Surface Cable Protector (Yellow Jacket® CP-YJHD-5).....	473.46	
Note: Modular interlocking design with hinged lid.		
<b>26 05 36 Cable Trays for Electrical Systems</b> (26 05)		
<b>26 05 36 00-0001 Cable Trays</b> (26 05 36)		
Note: Excludes supporting hangers.		
<b>26 05 36 00-0002 Ladder Bottom Galvanized Steel Cable Tray</b> (26 05 36 00-0001)		
<b>26 05 36 00-0003 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> (26 05 36 00-0002)		
<b>26 05 36 00-0004 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> (26 05 36 00-0003)		
26 05 36 00-0005 LF 6" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	46.17	14.77
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.38	
26 05 36 00-0006 LF 9" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	49.82	15.85
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.67	
26 05 36 00-0007 LF 12" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	54.42	17.07
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.01	
26 05 36 00-0008 LF 18" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	60.24	18.15
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.52	
26 05 36 00-0009 LF 24" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	65.74	18.76
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-5.02	
26 05 36 00-0010 LF 30" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	79.70	21.69
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-6.17	
26 05 36 00-0011 LF 36" Wide, 4" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	89.58	24.76
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-6.90	
<b>26 05 36 00-0012 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> (26 05 36 00-0003)		
26 05 36 00-0013 LF 6" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	43.74	14.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.16	
26 05 36 00-0014 LF 9" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	47.23	15.39
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.44	
26 05 36 00-0015 LF 12" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	50.51	16.77
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.65	
26 05 36 00-0016 LF 18" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	55.11	17.69
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.04	
26 05 36 00-0017 LF 24" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	59.17	18.30
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-4.40	
26 05 36 00-0018 LF 30" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	69.41	21.08
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-5.19	
26 05 36 00-0019 LF 36" Wide, 6" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	75.89	23.07
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-5.66	
<b>26 05 36 00-0020 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> (26 05 36 00-0003)		
26 05 36 00-0021 LF 6" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray.....	42.24	14.30
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-3.04	

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 36 Cable Trays for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0022 LF 9" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	43.53 -3.12	14.77
26 05 36 00-0023 LF 12" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	47.74 -3.47	15.69
26 05 36 00-0024 LF 18" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	52.08 -3.83	16.46
26 05 36 00-0025 LF 24" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	56.12 -4.20	16.92
26 05 36 00-0026 LF 30" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	61.14 -4.58	18.46
26 05 36 00-0027 LF 36" Wide, 9" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	65.75 -4.91	19.99
<b>26 05 36 00-0028 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> <small>(26 05 36 00-0003)</small>		
26 05 36 00-0029 LF 6" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	40.93 -2.95	13.69
26 05 36 00-0030 LF 9" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	41.78 -3.01	13.99
26 05 36 00-0031 LF 12" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	44.22 -3.19	14.77
26 05 36 00-0032 LF 18" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	46.80 -3.39	15.54
26 05 36 00-0033 LF 24" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	48.55 -3.56	15.54
26 05 36 00-0034 LF 30" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	53.50 -3.96	16.77
26 05 36 00-0035 LF 36" Wide, 12" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	56.33 -4.17	17.54
<b>26 05 36 00-0036 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray</b> <small>(26 05 36 00-0003)</small>		
26 05 36 00-0037 LF 6" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	40.35 -2.92	13.38
26 05 36 00-0038 LF 9" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	41.06 -2.96	13.69
26 05 36 00-0039 LF 12" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	43.50 -3.15	14.46
26 05 36 00-0040 LF 18" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	45.66 -3.31	15.08
26 05 36 00-0041 LF 24" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	46.36 -3.37	15.23
26 05 36 00-0042 LF 30" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	49.33 -3.57	16.31
26 05 36 00-0043 LF 36" Wide, 18" Rung Spacing, 4-5/8" High, Straight Sections, Ladder Bottom Galvanized Steel Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	51.50 -3.72	17.23
<b>26 05 36 00-0044 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-0002)</small>		
<b>26 05 36 00-0045 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>		
26 05 36 00-0046 EA 6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	373.46 -24.49	154.28
26 05 36 00-0047 EA 9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	418.52 -27.21	175.67
26 05 36 00-0048 EA 12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	460.41 -29.86	194.28
26 05 36 00-0049 EA 18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	574.22 -37.58	238.12
26 05 36 00-0050 EA 24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	655.17 -42.74	273.34
26 05 36 00-0051 EA 30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	775.09 -51.87	307.65
26 05 36 00-0052 EA 36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	892.73 -59.97	351.63
<b>26 05 36 00-0053 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0054 EA 6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	507.62	160.44
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.39	
26 05 36 00-0055 EA 9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	554.98	184.43
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.13	
26 05 36 00-0056 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	598.65	205.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.77	
26 05 36 00-0057 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	701.59	254.72
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.94	
26 05 36 00-0058 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	789.85	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.37	
26 05 36 00-0059 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	882.28	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.28	
26 05 36 00-0060 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,031.70	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.80	
<b>26 05 36 00-0061 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small></b>		
26 05 36 00-0062 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	545.52	167.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.58	
26 05 36 00-0063 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	604.25	194.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.25	
26 05 36 00-0064 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	655.87	217.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.48	
26 05 36 00-0065 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	791.89	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.41	
26 05 36 00-0066 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	904.36	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.69	
26 05 36 00-0067 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,058.70	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.11	
26 05 36 00-0068 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,206.91	433.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.55	
<b>26 05 36 00-0069 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small></b>		
26 05 36 00-0070 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	276.84	111.83
<i>For 60 Degree Bend, Deduct</i>	-48.51	
<i>For 30 Degree Bend, Deduct</i>	-87.05	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.37	
26 05 36 00-0071 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	317.68	134.13
<i>For 60 Degree Bend, Deduct</i>	-53.44	
<i>For 30 Degree Bend, Deduct</i>	-96.52	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.60	
26 05 36 00-0072 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	354.29	153.82
<i>For 60 Degree Bend, Deduct</i>	-57.95	
<i>For 30 Degree Bend, Deduct</i>	-105.13	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.61	
26 05 36 00-0073 EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	427.45	194.43
<i>For 60 Degree Bend, Deduct</i>	-66.54	
<i>For 30 Degree Bend, Deduct</i>	-121.70	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.55	
26 05 36 00-0074 EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	529.88	238.12
<i>For 60 Degree Bend, Deduct</i>	-83.58	
<i>For 30 Degree Bend, Deduct</i>	-152.54	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.15	
26 05 36 00-0075 EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	625.61	273.34
<i>For 60 Degree Bend, Deduct</i>	-101.66	
<i>For 30 Degree Bend, Deduct</i>	-184.62	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.78	
26 05 36 00-0076 EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	712.21	320.87
<i>For 60 Degree Bend, Deduct</i>	-112.02	
<i>For 30 Degree Bend, Deduct</i>	-204.52	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.48	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0077			<b>24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>		
26 05 36 00-0078	EA		6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	306.74	115.36
			<i>For 60 Degree Bend, Deduct</i> .....	-57.02	
			<i>For 30 Degree Bend, Deduct</i> .....	-101.44	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-21.06	
26 05 36 00-0079	EA		9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	353.73	139.05
			<i>For 60 Degree Bend, Deduct</i> .....	-63.42	
			<i>For 30 Degree Bend, Deduct</i> .....	-113.43	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-23.78	
26 05 36 00-0080	EA		12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	404.33	160.59
			<i>For 60 Degree Bend, Deduct</i> .....	-71.88	
			<i>For 30 Degree Bend, Deduct</i> .....	-128.72	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-27.05	
26 05 36 00-0081	EA		18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	482.25	205.05
			<i>For 60 Degree Bend, Deduct</i> .....	-80.52	
			<i>For 30 Degree Bend, Deduct</i> .....	-145.60	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-31.13	
26 05 36 00-0082	EA		24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	594.43	254.72
			<i>For 60 Degree Bend, Deduct</i> .....	-98.54	
			<i>For 30 Degree Bend, Deduct</i> .....	-178.38	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-38.22	
26 05 36 00-0083	EA		30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	695.63	295.50
			<i>For 60 Degree Bend, Deduct</i> .....	-116.31	
			<i>For 30 Degree Bend, Deduct</i> .....	-210.26	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-44.94	
26 05 36 00-0084	EA		36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	819.01	351.79
			<i>For 60 Degree Bend, Deduct</i> .....	-135.45	
			<i>For 30 Degree Bend, Deduct</i> .....	-245.28	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-52.59	
26 05 36 00-0085			<b>36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>		
26 05 36 00-0086	EA		6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	362.77	119.06
			<i>For 60 Degree Bend, Deduct</i> .....	-74.10	
			<i>For 30 Degree Bend, Deduct</i> .....	-130.11	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-26.36	
26 05 36 00-0087	EA		9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	414.62	144.59
			<i>For 60 Degree Bend, Deduct</i> .....	-81.41	
			<i>For 30 Degree Bend, Deduct</i> .....	-143.71	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-29.41	
26 05 36 00-0088	EA		12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	457.05	167.82
			<i>For 60 Degree Bend, Deduct</i> .....	-86.50	
			<i>For 30 Degree Bend, Deduct</i> .....	-153.49	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-31.72	
26 05 36 00-0089	EA		18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	554.25	217.20
			<i>For 60 Degree Bend, Deduct</i> .....	-99.62	
			<i>For 30 Degree Bend, Deduct</i> .....	-178.10	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-37.32	
26 05 36 00-0090	EA		24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	658.87	273.34
			<i>For 60 Degree Bend, Deduct</i> .....	-112.63	
			<i>For 30 Degree Bend, Deduct</i> .....	-202.91	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-43.11	
26 05 36 00-0091	EA		30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	797.20	320.87
			<i>For 60 Degree Bend, Deduct</i> .....	-140.06	
			<i>For 30 Degree Bend, Deduct</i> .....	-251.27	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-52.98	
26 05 36 00-0092	EA		36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	939.32	388.40
			<i>For 60 Degree Bend, Deduct</i> .....	-161.07	
			<i>For 30 Degree Bend, Deduct</i> .....	-290.04	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-61.56	
26 05 36 00-0093			<b>12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 36 00-0094	EA		6" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 399.89		153.82
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -27.17		
	26 05 36 00-0095	EA		9" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 439.70		175.67
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -29.33		
	26 05 36 00-0096	EA		12" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 475.46		194.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -31.36		
	26 05 36 00-0097	EA		18" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 555.22		238.12
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -35.68		
	26 05 36 00-0098	EA		24" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 620.59		273.34
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -39.28		
	26 05 36 00-0099	EA		30" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 690.89		307.65
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -43.45		
	26 05 36 00-0100	EA		36" Wide, 12" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 770.08		351.17
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -47.74		
<b>26 05 36 00-0101</b>				<b>24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small></b>		
	26 05 36 00-0102	EA		6" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 470.34		160.44
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -33.66		
	26 05 36 00-0103	EA		9" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 515.50		184.58
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -36.17		
	26 05 36 00-0104	EA		12" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 557.93		205.05
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -38.70		
	26 05 36 00-0105	EA		18" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 652.10		254.72
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -43.99		
	26 05 36 00-0106	EA		24" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 731.59		295.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -48.54		
	26 05 36 00-0107	EA		30" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 811.34		335.33
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -53.19		
	26 05 36 00-0108	EA		36" Wide, 24" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 931.14		388.40
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -60.74		
<b>26 05 36 00-0109</b>				<b>36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small></b>		
	26 05 36 00-0110	EA		6" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 553.31		167.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -41.36		
	26 05 36 00-0111	EA		9" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 607.43		194.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -44.56		
	26 05 36 00-0112	EA		12" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 649.14		217.20
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -46.81		
	26 05 36 00-0113	EA		18" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 765.76		273.34
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -53.79		
	26 05 36 00-0114	EA		24" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 848.27		320.87
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -58.09		
	26 05 36 00-0115	EA		30" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 971.60		369.17
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -66.40		
	26 05 36 00-0116	EA		36" Wide, 36" Radius, Vertical 90 Degree Elbows, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 1,102.26		433.78
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -74.08		
<b>26 05 36 00-0117</b>				<b>12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small></b>		
	26 05 36 00-0118	EA		6" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 722.28		295.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -47.61		
	26 05 36 00-0119	EA		9" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... 781.89		320.87
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> ..... -51.45		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0120	EA	12" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	819.72	335.33
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.02	
26 05 36 00-0121	EA	18" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	913.80	369.17
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.62	
26 05 36 00-0122	EA	24" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,033.03	409.78
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.15	
26 05 36 00-0123	EA	30" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,142.81	434.55
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.07	
26 05 36 00-0124	EA	36" Wide, 12" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,293.45	491.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.35	
<b>26 05 36 00-0125</b>		<b>24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>		
26 05 36 00-0126	EA	6" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	895.12	320.87
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.77	
26 05 36 00-0127	EA	9" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	963.65	351.79
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.05	
26 05 36 00-0128	EA	12" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,006.44	369.17
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.88	
26 05 36 00-0129	EA	18" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,105.08	409.78
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.36	
26 05 36 00-0130	EA	24" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,228.90	461.46
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.43	
26 05 36 00-0131	EA	30" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,320.90	491.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.09	
26 05 36 00-0132	EA	36" Wide, 24" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,588.81	568.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-111.52	
<b>26 05 36 00-0133</b>		<b>36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>		
26 05 36 00-0134	EA	6" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,124.92	351.79
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.18	
26 05 36 00-0135	EA	9" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,206.69	388.40
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.30	
26 05 36 00-0136	EA	12" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,280.08	409.78
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-93.86	
26 05 36 00-0137	EA	18" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,410.75	461.46
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-102.62	
26 05 36 00-0138	EA	24" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,601.97	526.84
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-116.30	
26 05 36 00-0139	EA	30" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,736.36	568.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-126.28	
26 05 36 00-0140	EA	36" Wide, 36" Radius, Horizontal Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,965.41	670.66
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-140.65	
<b>26 05 36 00-0141</b>		<b>12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0044)</small>		
26 05 36 00-0142	EA	6" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	846.79	273.34
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.90	
26 05 36 00-0143	EA	9" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	868.18	284.11
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.14	
26 05 36 00-0144	EA	12" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	890.41	295.50
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.42	
26 05 36 00-0145	EA	18" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	939.73	320.87
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.23	
26 05 36 00-0146	EA	24" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	970.70	335.33
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0147 EA 30" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,054.48	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.68	
26 05 36 00-0148 EA 36" Wide, 12" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,139.40	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.79	
<b>26 05 36 00-0149 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small></b>		
26 05 36 00-0150 EA 6" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,199.23	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.30	
26 05 36 00-0151 EA 9" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,229.86	307.65
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.35	
26 05 36 00-0152 EA 12" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,262.26	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.48	
26 05 36 00-0153 EA 18" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,334.22	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-104.11	
26 05 36 00-0154 EA 24" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,383.88	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.62	
26 05 36 00-0155 EA 30" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,472.23	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-113.07	
26 05 36 00-0156 EA 36" Wide, 24" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,592.61	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-120.81	
<b>26 05 36 00-0157 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small></b>		
26 05 36 00-0158 EA 6" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,855.87	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-158.85	
26 05 36 00-0159 EA 9" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,897.14	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-161.77	
26 05 36 00-0160 EA 12" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,941.55	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-164.84	
26 05 36 00-0161 EA 18" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,019.90	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-169.62	
26 05 36 00-0162 EA 24" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,072.69	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-173.12	
26 05 36 00-0163 EA 30" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,210.23	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-182.57	
26 05 36 00-0164 EA 36" Wide, 36" Radius, Vertical Tees, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,336.26	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-189.73	
<b>26 05 36 00-0165 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small></b>		
26 05 36 00-0166 EA 6" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	900.07	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.24	
26 05 36 00-0167 EA 9" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	945.92	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.22	
26 05 36 00-0168 EA 12" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,009.01	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.75	
26 05 36 00-0169 EA 18" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,081.05	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.90	
26 05 36 00-0170 EA 24" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,217.96	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.80	
26 05 36 00-0171 EA 30" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,354.92	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.59	
26 05 36 00-0172 EA 36" Wide, 12" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,479.01	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.54	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-0173 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)</b>		
26 05 36 00-0174 EA 6" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,235.47	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-89.40</i>	
26 05 36 00-0175 EA 9" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,293.79	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-93.17</i>	
26 05 36 00-0176 EA 12" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,355.85	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-97.13</i>	
26 05 36 00-0177 EA 18" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,444.43	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-103.45</i>	
26 05 36 00-0178 EA 24" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,612.83	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-113.92</i>	
26 05 36 00-0179 EA 30" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,735.75	615.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-122.30</i>	
26 05 36 00-0180 EA 36" Wide, 24" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,941.39	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-138.24</i>	
<b>26 05 36 00-0181 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)</b>		
26 05 36 00-0182 EA 6" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,541.14	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-115.66</i>	
26 05 36 00-0183 EA 9" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,626.28	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-121.63</i>	
26 05 36 00-0184 EA 12" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,718.64	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-127.97</i>	
26 05 36 00-0185 EA 18" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,873.61	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-140.00</i>	
26 05 36 00-0186 EA 24" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,147.26	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-158.83</i>	
26 05 36 00-0187 EA 30" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,343.76	737.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-172.95</i>	
26 05 36 00-0188 EA 36" Wide, 36" Radius, Horizontal Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,569.46	821.10
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-188.52</i>	
<b>26 05 36 00-0189 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)</b>		
26 05 36 00-0190 EA 6" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,028.23	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-72.06</i>	
26 05 36 00-0191 EA 9" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,080.47	388.56
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-75.67</i>	
26 05 36 00-0192 EA 12" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,155.57	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-81.41</i>	
26 05 36 00-0193 EA 18" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,241.91	434.70
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-87.97</i>	
26 05 36 00-0194 EA 24" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,397.08	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-98.71</i>	
26 05 36 00-0195 EA 30" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,569.95	526.99
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-113.08</i>	
26 05 36 00-0196 EA 36" Wide, 12" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,717.18	567.60
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-124.42</i>	
<b>26 05 36 00-0197 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0044)</b>		
26 05 36 00-0198 EA 6" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,484.06	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	<i>-114.25</i>	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0199	EA			9" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,550.10	434.55
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-118.80	
26 05 36 00-0200	EA			12" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,619.89	461.46
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-123.53	
26 05 36 00-0201	EA			18" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,725.45	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-131.55	
26 05 36 00-0202	EA			24" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,912.38	568.37
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-143.88	
26 05 36 00-0203	EA			30" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,055.37	615.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-154.26	
26 05 36 00-0204	EA			36" Wide, 24" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,311.96	670.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-175.30	
<b>26 05 36 00-0205    36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0044)</small></b>						
26 05 36 00-0206	EA			6" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,888.55	461.46
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-150.40	
26 05 36 00-0207	EA			9" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,989.14	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-157.92	
26 05 36 00-0208	EA			12" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,096.93	526.84
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-165.79	
26 05 36 00-0209	EA			18" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,290.50	568.37
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-181.69	
26 05 36 00-0210	EA			24" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,610.48	670.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-205.15	
26 05 36 00-0211	EA			30" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,845.57	737.12
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-223.13	
26 05 36 00-0212	EA			36" Wide, 36" Radius, Vertical Crosses, 4" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	3,109.88	821.10
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-242.56	
<b>26 05 36 00-0213    6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings <small>(26 05 36 00-0002)</small></b>						
<b>26 05 36 00-0214    12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>						
26 05 36 00-0215	EA			6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	356.83	154.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.83	
26 05 36 00-0216	EA			9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	400.57	175.67
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.41	
26 05 36 00-0217	EA			12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	440.88	194.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.90	
26 05 36 00-0218	EA			18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	548.88	238.12
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.05	
26 05 36 00-0219	EA			24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	626.66	273.34
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.88	
26 05 36 00-0220	EA			30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	737.61	307.65
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.12	
26 05 36 00-0221	EA			36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	848.92	351.63
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.59	
<b>26 05 36 00-0222    24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>						
26 05 36 00-0223	EA			6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	473.30	160.44
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.96	
26 05 36 00-0224	EA			9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	519.61	184.43
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.59	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0225 EA 12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	561.96	205.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-39.10	
26 05 36 00-0226 EA 18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	662.00	254.72
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-44.98	
26 05 36 00-0227 EA 24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	747.36	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-50.12	
26 05 36 00-0228 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	836.09	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-55.66	
26 05 36 00-0229 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	976.80	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-65.31	
<b>26 05 36 00-0230 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0231 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	507.52	167.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-36.78	
26 05 36 00-0232 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	564.14	194.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-40.24	
26 05 36 00-0233 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	613.90	217.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-43.29	
26 05 36 00-0234 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	743.85	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-51.60	
26 05 36 00-0235 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	851.57	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-58.42	
26 05 36 00-0236 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	995.36	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-68.77	
26 05 36 00-0237 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,137.76	433.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-77.63	
<b>26 05 36 00-0238 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0239 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	263.91	111.83
<i>For 60 Degree Bend, Deduct</i> .....	-44.24	
<i>For 30 Degree Bend, Deduct</i> .....	-79.94	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-17.08	
26 05 36 00-0240 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	304.22	134.13
<i>For 60 Degree Bend, Deduct</i> .....	-49.00	
<i>For 30 Degree Bend, Deduct</i> .....	-89.11	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-19.25	
26 05 36 00-0241 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	340.30	153.82
<i>For 60 Degree Bend, Deduct</i> .....	-53.33	
<i>For 30 Degree Bend, Deduct</i> .....	-97.44	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-21.21	
26 05 36 00-0242 EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	412.66	194.43
<i>For 60 Degree Bend, Deduct</i> .....	-61.66	
<i>For 30 Degree Bend, Deduct</i> .....	-113.57	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-25.07	
26 05 36 00-0243 EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	510.87	238.12
<i>For 60 Degree Bend, Deduct</i> .....	-77.31	
<i>For 30 Degree Bend, Deduct</i> .....	-142.08	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-31.24	
26 05 36 00-0244 EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	601.33	273.34
<i>For 60 Degree Bend, Deduct</i> .....	-93.64	
<i>For 30 Degree Bend, Deduct</i> .....	-171.26	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-37.35	
26 05 36 00-0245 EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	686.87	320.87
<i>For 60 Degree Bend, Deduct</i> .....	-103.65	
<i>For 30 Degree Bend, Deduct</i> .....	-190.58	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-41.95	
<b>26 05 36 00-0246 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0247 EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	290.38	115.36
<i>For 60 Degree Bend, Deduct</i>	-51.62	
<i>For 30 Degree Bend, Deduct</i>	-92.44	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.43	
26 05 36 00-0248 EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	336.31	139.05
<i>For 60 Degree Bend, Deduct</i>	-57.67	
<i>For 30 Degree Bend, Deduct</i>	-103.84	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.04	
26 05 36 00-0249 EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	384.80	160.59
<i>For 60 Degree Bend, Deduct</i>	-65.43	
<i>For 30 Degree Bend, Deduct</i>	-117.98	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.10	
26 05 36 00-0250 EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	462.19	205.05
<i>For 60 Degree Bend, Deduct</i>	-73.90	
<i>For 30 Degree Bend, Deduct</i>	-134.56	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.13	
26 05 36 00-0251 EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	570.15	254.72
<i>For 60 Degree Bend, Deduct</i>	-90.53	
<i>For 30 Degree Bend, Deduct</i>	-165.03	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.79	
26 05 36 00-0252 EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	666.59	295.50
<i>For 60 Degree Bend, Deduct</i>	-106.73	
<i>For 30 Degree Bend, Deduct</i>	-194.29	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.04	
26 05 36 00-0253 EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	785.75	351.79
<i>For 60 Degree Bend, Deduct</i>	-124.47	
<i>For 30 Degree Bend, Deduct</i>	-226.99	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.26	
<b>26 05 36 00-0254 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>		
26 05 36 00-0255 EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	339.27	119.06
<i>For 60 Degree Bend, Deduct</i>	-66.34	
<i>For 30 Degree Bend, Deduct</i>	-117.18	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.01	
26 05 36 00-0256 EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	389.81	144.59
<i>For 60 Degree Bend, Deduct</i>	-73.22	
<i>For 30 Degree Bend, Deduct</i>	-130.06	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.93	
26 05 36 00-0257 EA 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	431.71	167.82
<i>For 60 Degree Bend, Deduct</i>	-78.14	
<i>For 30 Degree Bend, Deduct</i>	-139.55	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.19	
26 05 36 00-0258 EA 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	526.80	217.20
<i>For 60 Degree Bend, Deduct</i>	-90.56	
<i>For 30 Degree Bend, Deduct</i>	-163.01	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.58	
26 05 36 00-0259 EA 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	629.83	273.34
<i>For 60 Degree Bend, Deduct</i>	-103.05	
<i>For 30 Degree Bend, Deduct</i>	-186.94	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.20	
26 05 36 00-0260 EA 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	759.72	320.87
<i>For 60 Degree Bend, Deduct</i>	-127.69	
<i>For 30 Degree Bend, Deduct</i>	-230.65	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.23	
26 05 36 00-0261 EA 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	897.62	388.40
<i>For 60 Degree Bend, Deduct</i>	-147.31	
<i>For 30 Degree Bend, Deduct</i>	-267.10	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.39	
<b>26 05 36 00-0262 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>		
26 05 36 00-0263 EA 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	388.41	153.82
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.02	
26 05 36 00-0264 EA 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	427.95	175.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.15	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0265	EA		12" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	463.32	194.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-30.15	
26 05 36 00-0266	EA		18" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	542.55	238.12
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-34.41	
26 05 36 00-0267	EA		24" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	607.40	273.34
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-37.96	
26 05 36 00-0268	EA		30" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	676.64	307.65
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-42.03	
26 05 36 00-0269	EA		36" Wide, 12" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	755.30	351.17
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-46.26	
<b>26 05 36 00-0270</b>			<b>24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0271	EA		6" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	454.10	160.44
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-32.04	
26 05 36 00-0272	EA		9" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	498.88	184.58
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-34.51	
26 05 36 00-0273	EA		12" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	540.64	205.05
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-36.97	
26 05 36 00-0274	EA		18" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	633.89	254.72
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-42.17	
26 05 36 00-0275	EA		24" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	712.45	295.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-46.63	
26 05 36 00-0276	EA		30" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	791.15	335.33
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-51.17	
26 05 36 00-0277	EA		36" Wide, 24" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	908.44	388.40
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-58.47	
<b>26 05 36 00-0278</b>			<b>36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0279	EA		6" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	531.40	167.66
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-39.17	
26 05 36 00-0280	EA		9" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	584.73	194.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-42.29	
26 05 36 00-0281	EA		12" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	626.17	217.20
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-44.51	
26 05 36 00-0282	EA		18" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	740.95	273.34
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-51.31	
26 05 36 00-0283	EA		24" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	823.20	320.87
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-55.58	
26 05 36 00-0284	EA		30" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	943.10	369.17
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-63.55	
26 05 36 00-0285	EA		36" Wide, 36" Radius, Vertical 90 Degree Elbows, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,071.90	433.78
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-71.05	
<b>26 05 36 00-0286</b>			<b>12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0287	EA		6" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	704.60	295.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-45.84	
26 05 36 00-0288	EA		9" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	762.89	320.87
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-49.55	
26 05 36 00-0289	EA		12" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	799.67	335.33
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-52.02	
26 05 36 00-0290	EA		18" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	890.84	369.17
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-58.32	
26 05 36 00-0291	EA		24" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,006.10	409.78
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-66.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0292 EA 30" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,110.61	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-74.85	
26 05 36 00-0293 EA 36" Wide, 12" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,257.03	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.71	
<b>26 05 36 00-0294 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>		
26 05 36 00-0295 EA 6" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	867.41	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.00	
26 05 36 00-0296 EA 9" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	934.61	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.15	
26 05 36 00-0297 EA 12" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	976.35	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.87	
26 05 36 00-0298 EA 18" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,072.62	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.11	
26 05 36 00-0299 EA 24" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,193.53	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.90	
26 05 36 00-0300 EA 30" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,282.37	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.24	
26 05 36 00-0301 EA 36" Wide, 24" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,539.46	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.59	
<b>26 05 36 00-0302 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>		
26 05 36 00-0303 EA 6" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,083.48	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.04	
26 05 36 00-0304 EA 9" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,163.67	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.00	
26 05 36 00-0305 EA 12" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,234.15	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.26	
26 05 36 00-0306 EA 18" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,361.40	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.68	
26 05 36 00-0307 EA 24" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,546.28	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-110.73	
26 05 36 00-0308 EA 30" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,675.65	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-120.21	
26 05 36 00-0309 EA 36" Wide, 36" Radius, Horizontal Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,900.21	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-134.13	
<b>26 05 36 00-0310 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0213)</small></b>		
26 05 36 00-0311 EA 6" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	816.70	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.89	
26 05 36 00-0312 EA 9" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	837.83	284.11
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.10	
26 05 36 00-0313 EA 12" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	859.80	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.36	
26 05 36 00-0314 EA 18" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	908.58	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.12	
26 05 36 00-0315 EA 24" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	939.03	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.96	
26 05 36 00-0316 EA 30" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,020.69	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.31	
26 05 36 00-0317 EA 36" Wide, 12" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,104.29	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.28	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0318			<b>24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0319	EA		6" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,144.85	295.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.87	
26 05 36 00-0320	EA		9" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,174.70	307.65
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.83	
26 05 36 00-0321	EA		12" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,206.31	320.87
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-93.89	
26 05 36 00-0322	EA		18" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,276.68	351.79
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.36	
26 05 36 00-0323	EA		24" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,324.76	369.17
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-101.71	
26 05 36 00-0324	EA		30" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,411.52	409.78
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.00	
26 05 36 00-0325	EA		36" Wide, 24" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,529.26	461.46
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-114.47	
26 05 36 00-0326			<b>36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0327	EA		6" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,754.25	320.87
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-148.68	
26 05 36 00-0328	EA		9" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,794.20	335.33
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-151.47	
26 05 36 00-0329	EA		12" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,837.30	351.79
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-154.42	
26 05 36 00-0330	EA		18" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,914.32	388.40
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-159.06	
26 05 36 00-0331	EA		24" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,965.80	409.78
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-162.43	
26 05 36 00-0332	EA		30" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,099.38	461.46
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-171.48	
26 05 36 00-0333	EA		36" Wide, 36" Radius, Vertical Tees, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,224.08	526.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-178.51	
26 05 36 00-0334			<b>12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0335	EA		6" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	878.17	369.17
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.05	
26 05 36 00-0336	EA		9" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	922.96	388.40
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.93	
26 05 36 00-0337	EA		12" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	983.93	409.78
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.24	
26 05 36 00-0338	EA		18" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,053.60	434.55
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.15	
26 05 36 00-0339	EA		24" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,187.35	491.92
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.74	
26 05 36 00-0340	EA		30" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,318.24	526.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.93	
26 05 36 00-0341	EA		36" Wide, 12" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,438.10	568.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-96.45	
26 05 36 00-0342			<b>24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0343	EA		6" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,192.98	409.78
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.15	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0344	EA			9" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,249.97	434.55
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.79	
26 05 36 00-0345	EA			12" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,310.72	461.46
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.62	
26 05 36 00-0346	EA			18" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,396.39	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.64	
26 05 36 00-0347	EA			24" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,561.63	568.37
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-108.80	
26 05 36 00-0348	EA			30" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,681.11	615.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-116.84	
26 05 36 00-0349	EA			36" Wide, 24" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,878.04	670.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-131.91	
<b>26 05 36 00-0350</b>				<b>36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0351	EA			6" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,481.75	461.46
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-109.72	
26 05 36 00-0352	EA			9" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,564.26	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-115.43	
26 05 36 00-0353	EA			12" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,653.97	526.84
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-121.50	
26 05 36 00-0354	EA			18" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,802.34	568.37
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-132.88	
26 05 36 00-0355	EA			24" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,068.08	670.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-150.91	
26 05 36 00-0356	EA			30" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,257.97	737.12
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-164.37	
26 05 36 00-0357	EA			36" Wide, 36" Radius, Horizontal Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,477.08	821.10
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-179.28	
<b>26 05 36 00-0358</b>				<b>12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0359	EA			6" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	996.46	369.17
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.88	
26 05 36 00-0360	EA			9" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,047.18	388.56
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.34	
26 05 36 00-0361	EA			12" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,119.22	409.78
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.78	
26 05 36 00-0362	EA			18" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,202.11	434.70
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.99	
26 05 36 00-0363	EA			24" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,352.68	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-94.27	
26 05 36 00-0364	EA			30" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,516.75	526.99
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-107.76	
26 05 36 00-0365	EA			36" Wide, 12" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,657.86	567.60
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-118.49	
<b>26 05 36 00-0366</b>				<b>24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0367	EA			6" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,422.45	409.78
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-108.09	
26 05 36 00-0368	EA			9" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,486.57	434.55
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.45	
26 05 36 00-0369	EA			12" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,554.44	461.46
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-116.99	
26 05 36 00-0370	EA			18" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,655.79	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-124.58	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0371	EA		24" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,838.13	568.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-136.45	
26 05 36 00-0372	EA		30" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,976.15	615.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-146.34	
26 05 36 00-0373	EA		36" Wide, 24" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,220.11	670.66
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-166.12	
<b>26 05 36 00-0374</b>			<b>36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0213)</small>		
26 05 36 00-0375	EA		6" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,802.44	461.46
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-141.79	
26 05 36 00-0376	EA		9" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,899.20	491.92
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-148.92	
26 05 36 00-0377	EA		12" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,003.16	526.84
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-156.42	
26 05 36 00-0378	EA		18" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,187.17	568.37
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-171.36	
26 05 36 00-0379	EA		24" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,495.67	670.66
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-193.67	
26 05 36 00-0380	EA		30" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,721.19	737.12
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-210.69	
26 05 36 00-0381	EA		36" Wide, 36" Radius, Vertical Crosses, 6" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,975.93	821.10
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-229.17	
<b>26 05 36 00-0382</b>			<b>9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-0002)</small>		
<b>26 05 36 00-0383</b>			<b>12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0384	EA		6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	340.20	154.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.17	
26 05 36 00-0385	EA		9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	382.62	175.67
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.62	
26 05 36 00-0386	EA		12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	421.35	194.28
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.95	
26 05 36 00-0387	EA		18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	523.54	238.12
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.51	
26 05 36 00-0388	EA		24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	598.16	273.34
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.03	
26 05 36 00-0389	EA		30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	700.13	307.65
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.38	
26 05 36 00-0390	EA		36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	805.10	351.63
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.21	
<b>26 05 36 00-0391</b>			<b>24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0392	EA		6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	438.99	160.44
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.53	
26 05 36 00-0393	EA		9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	484.24	184.43
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.05	
26 05 36 00-0394	EA		12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	525.27	205.05
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.44	
26 05 36 00-0395	EA		18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	622.41	254.72
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.02	
26 05 36 00-0396	EA		24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	704.86	295.50
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0397 EA 30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	789.90	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.04	
26 05 36 00-0398 EA 36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	921.90	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.82	
<b>26 05 36 00-0399 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b>		
26 05 36 00-0400 EA 6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	469.51	167.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.98	
26 05 36 00-0401 EA 9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	524.02	194.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.23	
26 05 36 00-0402 EA 12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	571.93	217.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.09	
26 05 36 00-0403 EA 18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	695.82	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.80	
26 05 36 00-0404 EA 24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	798.78	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.14	
26 05 36 00-0405 EA 30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	932.01	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.44	
26 05 36 00-0406 EA 36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,068.60	433.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.72	
<b>26 05 36 00-0407 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b>		
26 05 36 00-0408 EA 6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	250.98	111.83
<i>For 60 Degree Bend, Deduct</i>	-39.97	
<i>For 30 Degree Bend, Deduct</i>	-72.83	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.78	
26 05 36 00-0409 EA 9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	290.76	134.13
<i>For 60 Degree Bend, Deduct</i>	-44.56	
<i>For 30 Degree Bend, Deduct</i>	-81.71	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.90	
26 05 36 00-0410 EA 12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	326.31	153.82
<i>For 60 Degree Bend, Deduct</i>	-48.72	
<i>For 30 Degree Bend, Deduct</i>	-89.74	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.81	
26 05 36 00-0411 EA 18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	397.88	194.43
<i>For 60 Degree Bend, Deduct</i>	-56.79	
<i>For 30 Degree Bend, Deduct</i>	-105.44	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.59	
26 05 36 00-0412 EA 24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	491.87	238.12
<i>For 60 Degree Bend, Deduct</i>	-71.04	
<i>For 30 Degree Bend, Deduct</i>	-131.63	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.34	
26 05 36 00-0413 EA 30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	577.04	273.34
<i>For 60 Degree Bend, Deduct</i>	-85.63	
<i>For 30 Degree Bend, Deduct</i>	-157.90	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.92	
26 05 36 00-0414 EA 36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	661.53	320.87
<i>For 60 Degree Bend, Deduct</i>	-95.29	
<i>For 30 Degree Bend, Deduct</i>	-176.65	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.41	
<b>26 05 36 00-0415 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b>		
26 05 36 00-0416 EA 6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	274.01	115.36
<i>For 60 Degree Bend, Deduct</i>	-46.22	
<i>For 30 Degree Bend, Deduct</i>	-83.44	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.79	
26 05 36 00-0417 EA 9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	318.89	139.05
<i>For 60 Degree Bend, Deduct</i>	-51.92	
<i>For 30 Degree Bend, Deduct</i>	-94.26	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.30	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0418 EA 12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	365.27	160.59
For 60 Degree Bend, Deduct	-58.99	
For 30 Degree Bend, Deduct	-107.24	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.15	
26 05 36 00-0419 EA 18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	442.13	205.05
For 60 Degree Bend, Deduct	-67.28	
For 30 Degree Bend, Deduct	-123.53	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.12	
26 05 36 00-0420 EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	545.86	254.72
For 60 Degree Bend, Deduct	-82.51	
For 30 Degree Bend, Deduct	-151.67	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.36	
26 05 36 00-0421 EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	637.56	295.50
For 60 Degree Bend, Deduct	-97.15	
For 30 Degree Bend, Deduct	-178.32	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.14	
26 05 36 00-0422 EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	752.49	351.79
For 60 Degree Bend, Deduct	-113.49	
For 30 Degree Bend, Deduct	-208.70	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.94	
<b>26 05 36 00-0423 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0424 EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	315.78	119.06
For 60 Degree Bend, Deduct	-58.59	
For 30 Degree Bend, Deduct	-104.26	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.66	
26 05 36 00-0425 EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	365.00	144.59
For 60 Degree Bend, Deduct	-65.03	
For 30 Degree Bend, Deduct	-116.42	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.45	
26 05 36 00-0426 EA 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	406.37	167.82
For 60 Degree Bend, Deduct	-69.78	
For 30 Degree Bend, Deduct	-125.62	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.65	
26 05 36 00-0427 EA 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	499.35	217.20
For 60 Degree Bend, Deduct	-81.50	
For 30 Degree Bend, Deduct	-147.91	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.83	
26 05 36 00-0428 EA 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	600.80	273.34
For 60 Degree Bend, Deduct	-93.47	
For 30 Degree Bend, Deduct	-170.97	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.30	
26 05 36 00-0429 EA 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	722.24	320.87
For 60 Degree Bend, Deduct	-115.33	
For 30 Degree Bend, Deduct	-210.04	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.48	
26 05 36 00-0430 EA 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	855.91	388.40
For 60 Degree Bend, Deduct	-133.55	
For 30 Degree Bend, Deduct	-244.16	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.22	
<b>26 05 36 00-0431 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0432 EA 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	371.18	153.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.30	
26 05 36 00-0433 EA 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	410.33	175.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.39	
26 05 36 00-0434 EA 12" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	445.10	194.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.33	
26 05 36 00-0435 EA 18" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	523.54	238.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.51	
26 05 36 00-0436 EA 24" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	587.60	273.34
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.98	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0437 EA 30" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	655.26	307.65
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.89	
26 05 36 00-0438 EA 36" Wide, 12" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	733.13	351.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.05	
<b>26 05 36 00-0439 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0440 EA 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	429.75	160.44
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.60	
26 05 36 00-0441 EA 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	473.93	184.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.01	
26 05 36 00-0442 EA 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	514.71	205.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.38	
26 05 36 00-0443 EA 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	606.57	254.72
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.43	
26 05 36 00-0444 EA 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	683.75	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.76	
26 05 36 00-0445 EA 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	760.87	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.14	
26 05 36 00-0446 EA 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	874.39	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.07	
<b>26 05 36 00-0447 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0448 EA 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	498.54	167.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.88	
26 05 36 00-0449 EA 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	550.68	194.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.88	
26 05 36 00-0450 EA 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	591.73	217.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.07	
26 05 36 00-0451 EA 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	703.74	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.59	
26 05 36 00-0452 EA 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	785.58	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.82	
26 05 36 00-0453 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	900.34	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.27	
26 05 36 00-0454 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,026.37	433.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.50	
<b>26 05 36 00-0455 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0456 EA 6" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	669.23	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.30	
26 05 36 00-0457 EA 9" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	724.88	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.75	
26 05 36 00-0458 EA 12" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	759.55	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.01	
26 05 36 00-0459 EA 18" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	844.91	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.73	
26 05 36 00-0460 EA 24" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	952.26	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.07	
26 05 36 00-0461 EA 30" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,046.21	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.41	
26 05 36 00-0462 EA 36" Wide, 12" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting	1,184.18	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.42	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-0463 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0464 EA 6" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	811.98	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.46	
26 05 36 00-0465 EA 9" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	876.55	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.34	
26 05 36 00-0466 EA 12" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	916.17	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.85	
26 05 36 00-0467 EA 18" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,007.69	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.62	
26 05 36 00-0468 EA 24" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,122.79	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.82	
26 05 36 00-0469 EA 30" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,205.30	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.53	
26 05 36 00-0470 EA 36" Wide, 24" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,440.74	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-96.72	
<b>26 05 36 00-0471 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0472 EA 6" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,000.60	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.75	
26 05 36 00-0473 EA 9" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,077.63	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.39	
26 05 36 00-0474 EA 12" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,142.30	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.08	
26 05 36 00-0475 EA 18" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,262.68	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.81	
26 05 36 00-0476 EA 24" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,434.90	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.59	
26 05 36 00-0477 EA 30" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,554.24	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-108.07	
26 05 36 00-0478 EA 36" Wide, 36" Radius, Horizontal Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,769.83	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-121.09	
<b>26 05 36 00-0479 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0480 EA 6" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	756.52	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.87	
26 05 36 00-0481 EA 9" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	777.12	284.11
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.03	
26 05 36 00-0482 EA 12" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	798.56	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.24	
26 05 36 00-0483 EA 18" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	846.29	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.89	
26 05 36 00-0484 EA 24" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	875.68	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.62	
26 05 36 00-0485 EA 30" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	953.13	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.55	
26 05 36 00-0486 EA 36" Wide, 12" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,034.08	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.26	
<b>26 05 36 00-0487 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0488 EA 6" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,036.11	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0489 EA 9" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,064.37	307.65
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.80	
26 05 36 00-0490 EA 12" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,094.40	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.70	
26 05 36 00-0491 EA 18" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,161.60	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-86.85	
26 05 36 00-0492 EA 24" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,206.51	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.89	
26 05 36 00-0493 EA 30" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,290.11	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-94.86	
26 05 36 00-0494 EA 36" Wide, 24" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,402.57	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-101.80	
<b>26 05 36 00-0495 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b>		
26 05 36 00-0496 EA 6" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,551.02	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-128.36	
26 05 36 00-0497 EA 9" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,588.32	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-130.88	
26 05 36 00-0498 EA 12" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,628.78	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-133.57	
26 05 36 00-0499 EA 18" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,703.17	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-137.95	
26 05 36 00-0500 EA 24" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,752.01	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-141.05	
26 05 36 00-0501 EA 30" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,877.67	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-149.31	
26 05 36 00-0502 EA 36" Wide, 36" Radius, Vertical Tees, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,999.73	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-156.07	
<b>26 05 36 00-0503 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b>		
26 05 36 00-0504 EA 6" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	834.35	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.67	
26 05 36 00-0505 EA 9" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	877.03	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.33	
26 05 36 00-0506 EA 12" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	933.78	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.23	
26 05 36 00-0507 EA 18" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	998.70	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.66	
26 05 36 00-0508 EA 24" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,126.11	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.61	
26 05 36 00-0509 EA 30" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,244.86	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.59	
26 05 36 00-0510 EA 36" Wide, 12" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,356.28	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.27	
<b>26 05 36 00-0511 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0382)</small></b>		
26 05 36 00-0512 EA 6" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,107.99	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.65	
26 05 36 00-0513 EA 9" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,162.34	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.02	
26 05 36 00-0514 EA 12" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,220.45	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.59	
26 05 36 00-0515 EA 18" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,300.31	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-89.03	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0516	EA	24" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,459.22	568.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.56	
26 05 36 00-0517	EA	30" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,571.84	615.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.91	
26 05 36 00-0518	EA	36" Wide, 24" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,751.35	670.66
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-119.24	
<b>26 05 36 00-0519</b>		<b>36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0520	EA	6" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,362.98	461.46
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.84	
26 05 36 00-0521	EA	9" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,440.20	491.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-103.02	
26 05 36 00-0522	EA	12" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,524.64	526.84
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-108.57	
26 05 36 00-0523	EA	18" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,659.81	568.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-118.62	
26 05 36 00-0524	EA	24" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,909.72	670.66
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-135.08	
26 05 36 00-0525	EA	30" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,086.41	737.12
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-147.21	
26 05 36 00-0526	EA	36" Wide, 36" Radius, Horizontal Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,292.32	821.10
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-160.81	
<b>26 05 36 00-0527</b>		<b>12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0528	EA	6" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	932.93	369.17
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.53	
26 05 36 00-0529	EA	9" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	980.58	388.56
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.68	
26 05 36 00-0530	EA	12" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,046.50	409.78
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.50	
26 05 36 00-0531	EA	18" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,122.50	434.70
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.03	
26 05 36 00-0532	EA	24" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,263.89	491.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-85.39	
26 05 36 00-0533	EA	30" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,410.36	526.99
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.12	
26 05 36 00-0534	EA	36" Wide, 12" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,539.22	567.60
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.62	
<b>26 05 36 00-0535</b>		<b>24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0536	EA	6" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,299.21	409.78
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.77	
26 05 36 00-0537	EA	9" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,359.51	434.55
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.74	
26 05 36 00-0538	EA	12" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,423.55	461.46
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-103.90	
26 05 36 00-0539	EA	18" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,516.48	491.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-110.65	
26 05 36 00-0540	EA	24" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,689.64	568.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-121.61	
26 05 36 00-0541	EA	30" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,817.70	615.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-130.50	
26 05 36 00-0542	EA	36" Wide, 24" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,036.41	670.66
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-147.75	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0543				<b>36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0382)</small>		
26 05 36 00-0544	EA			6" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,630.22	461.46
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-124.57	
26 05 36 00-0545	EA			9" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,719.32	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-130.94	
26 05 36 00-0546	EA			12" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,815.63	526.84
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-137.66	
26 05 36 00-0547	EA			18" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,980.50	568.37
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-150.69	
26 05 36 00-0548	EA			24" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,266.04	670.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-170.71	
26 05 36 00-0549	EA			30" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,472.43	737.12
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-185.81	
26 05 36 00-0550	EA			36" Wide, 36" Radius, Vertical Crosses, 9" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,708.03	821.10
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-202.38	
26 05 36 00-0551				<b>12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-0002)</small>		
26 05 36 00-0552				<b>12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		
26 05 36 00-0553	EA			6" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	334.38	154.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-20.59	
26 05 36 00-0554	EA			9" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	376.34	175.67
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-22.99	
26 05 36 00-0555	EA			12" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	414.51	194.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-25.27	
26 05 36 00-0556	EA			18" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	514.67	238.12
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-31.62	
26 05 36 00-0557	EA			24" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	588.18	273.34
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-36.04	
26 05 36 00-0558	EA			30" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	687.01	307.65
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-43.06	
26 05 36 00-0559	EA			36" Wide, 12" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	789.77	351.63
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-49.68	
26 05 36 00-0560				<b>24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		
26 05 36 00-0561	EA			6" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	426.98	160.44
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-29.33	
26 05 36 00-0562	EA			9" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	471.86	184.43
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-31.82	
26 05 36 00-0563	EA			12" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	512.43	205.05
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-34.15	
26 05 36 00-0564	EA			18" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	608.55	254.72
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-39.63	
26 05 36 00-0565	EA			24" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	689.99	295.50
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-44.38	
26 05 36 00-0566	EA			30" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	773.73	335.33
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-49.43	
26 05 36 00-0567	EA			36" Wide, 24" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	902.68	388.40
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-57.90	
26 05 36 00-0568				<b>36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0569	EA	6" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	456.21 -31.65	167.66
26 05 36 00-0570	EA	9" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	509.97 -34.83	194.12
26 05 36 00-0571	EA	12" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	557.25 -37.62	217.20
26 05 36 00-0572	EA	18" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	679.00 -45.12	273.34
26 05 36 00-0573	EA	24" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	780.31 -51.29	320.87
26 05 36 00-0574	EA	30" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	909.84 -60.22	369.17
26 05 36 00-0575	EA	36" Wide, 36" Radius, Horizontal 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	1,044.40 -68.30	433.78
<b>26 05 36 00-0576</b>		<b>12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>		
26 05 36 00-0577	EA	6" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	246.45 -38.48 -70.34 -15.33	111.83
26 05 36 00-0578	EA	9" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	286.04 -43.00 -79.11 -17.43	134.13
26 05 36 00-0579	EA	12" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	321.42 -47.10 -87.05 -19.32	153.82
26 05 36 00-0580	EA	18" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	392.71 -55.08 -102.60 -23.07	194.43
26 05 36 00-0581	EA	24" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	485.22 -68.85 -127.97 -28.68	238.12
26 05 36 00-0582	EA	30" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	568.54 -82.82 -153.23 -34.07	273.34
26 05 36 00-0583	EA	36" Wide, 12" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	652.66 -92.36 -171.77 -38.52	320.87
<b>26 05 36 00-0584</b>		<b>24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>		
26 05 36 00-0585	EA	6" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	268.28 -44.33 -80.29 -17.22	115.36
26 05 36 00-0586	EA	9" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	312.79 -49.91 -90.91 -19.69	139.05
26 05 36 00-0587	EA	12" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	358.43 -56.73 -103.47 -22.46	160.59
26 05 36 00-0588	EA	18" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i> <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	435.11 -64.97 -119.67 -26.42	205.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0589 EA 24" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	537.36	254.72
<i>For 60 Degree Bend, Deduct</i>	-79.71	
<i>For 30 Degree Bend, Deduct</i>	-146.99	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.51	
26 05 36 00-0590 EA 30" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	627.40	295.50
<i>For 60 Degree Bend, Deduct</i>	-93.79	
<i>For 30 Degree Bend, Deduct</i>	-172.73	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.12	
26 05 36 00-0591 EA 36" Wide, 24" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	740.85	351.79
<i>For 60 Degree Bend, Deduct</i>	-109.65	
<i>For 30 Degree Bend, Deduct</i>	-202.29	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.77	
<b>26 05 36 00-0592 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)</b>		
26 05 36 00-0593 EA 6" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	307.56	119.06
<i>For 60 Degree Bend, Deduct</i>	-55.88	
<i>For 30 Degree Bend, Deduct</i>	-99.74	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.84	
26 05 36 00-0594 EA 9" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	356.32	144.59
<i>For 60 Degree Bend, Deduct</i>	-62.17	
<i>For 30 Degree Bend, Deduct</i>	-111.64	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.58	
26 05 36 00-0595 EA 12" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	397.50	167.82
<i>For 60 Degree Bend, Deduct</i>	-66.85	
<i>For 30 Degree Bend, Deduct</i>	-120.74	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.77	
26 05 36 00-0596 EA 18" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	489.74	217.20
<i>For 60 Degree Bend, Deduct</i>	-78.33	
<i>For 30 Degree Bend, Deduct</i>	-142.62	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.87	
26 05 36 00-0597 EA 24" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	590.64	273.34
<i>For 60 Degree Bend, Deduct</i>	-90.12	
<i>For 30 Degree Bend, Deduct</i>	-165.38	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.28	
26 05 36 00-0598 EA 30" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	709.12	320.87
<i>For 60 Degree Bend, Deduct</i>	-111.00	
<i>For 30 Degree Bend, Deduct</i>	-202.82	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.17	
26 05 36 00-0599 EA 36" Wide, 36" Radius, Horizontal 45 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	841.32	388.40
<i>For 60 Degree Bend, Deduct</i>	-128.73	
<i>For 30 Degree Bend, Deduct</i>	-236.14	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.76	
<b>26 05 36 00-0600 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)</b>		
26 05 36 00-0601 EA 6" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	363.15	153.82
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.50	
26 05 36 00-0602 EA 9" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	402.11	175.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.57	
26 05 36 00-0603 EA 12" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	436.60	194.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.48	
26 05 36 00-0604 EA 18" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	514.67	238.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.62	
26 05 36 00-0605 EA 24" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	578.36	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.05	
26 05 36 00-0606 EA 30" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	645.28	307.65
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.89	
26 05 36 00-0607 EA 36" Wide, 12" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	722.78	351.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.01	
<b>26 05 36 00-0608 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting (26 05 36 00-0551)</b>		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0609 EA 6" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	418.39	160.44
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.47	
26 05 36 00-0610 EA 9" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	462.29	184.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.85	
26 05 36 00-0611 EA 12" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	502.61	205.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.17	
26 05 36 00-0612 EA 18" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	593.82	254.72
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.16	
26 05 36 00-0613 EA 24" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	670.35	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-42.42	
26 05 36 00-0614 EA 30" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	746.73	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.73	
26 05 36 00-0615 EA 36" Wide, 24" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	858.50	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.48	
<b>26 05 36 00-0616 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>		
26 05 36 00-0617 EA 6" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	483.21	167.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.35	
26 05 36 00-0618 EA 9" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	534.79	194.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.29	
26 05 36 00-0619 EA 12" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	575.66	217.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.46	
26 05 36 00-0620 EA 18" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	686.37	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.86	
26 05 36 00-0621 EA 24" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	768.03	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.06	
26 05 36 00-0622 EA 30" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	880.38	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.27	
26 05 36 00-0623 EA 36" Wide, 36" Radius, Vertical 90 Degree Elbows, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,005.13	433.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.37	
<b>26 05 36 00-0624 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>		
26 05 36 00-0625 EA 6" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	651.55	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.54	
26 05 36 00-0626 EA 9" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	705.87	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.85	
26 05 36 00-0627 EA 12" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	739.49	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.00	
26 05 36 00-0628 EA 18" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	821.95	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.43	
26 05 36 00-0629 EA 24" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	925.34	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.38	
26 05 36 00-0630 EA 30" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,014.01	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.19	
26 05 36 00-0631 EA 36" Wide, 12" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	1,147.76	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.78	
<b>26 05 36 00-0632 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>		
26 05 36 00-0633 EA 6" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	784.27	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.69	
26 05 36 00-0634 EA 9" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting .....	847.51	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.44	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0635 EA 12" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	886.08	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.84	
26 05 36 00-0636 EA 18" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	975.22	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.37	
26 05 36 00-0637 EA 24" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,087.42	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.29	
26 05 36 00-0638 EA 30" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,166.76	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.68	
26 05 36 00-0639 EA 36" Wide, 24" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,391.38	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-91.78	
<b>26 05 36 00-0640 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>		
26 05 36 00-0641 EA 6" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	959.16	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.61	
26 05 36 00-0642 EA 9" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,034.60	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.09	
26 05 36 00-0643 EA 12" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,096.37	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.49	
26 05 36 00-0644 EA 18" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,213.32	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-82.88	
26 05 36 00-0645 EA 24" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,379.21	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-94.02	
26 05 36 00-0646 EA 30" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,493.53	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-101.99	
26 05 36 00-0647 EA 36" Wide, 36" Radius, Horizontal Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,704.63	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-114.57	
<b>26 05 36 00-0648 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>		
26 05 36 00-0649 EA 6" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	726.43	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.86	
26 05 36 00-0650 EA 9" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	746.77	284.11
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.00	
26 05 36 00-0651 EA 12" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	767.95	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.18	
26 05 36 00-0652 EA 18" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	815.15	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.77	
26 05 36 00-0653 EA 24" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	844.01	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.45	
26 05 36 00-0654 EA 30" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	919.34	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.17	
26 05 36 00-0655 EA 36" Wide, 12" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	998.98	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-65.75	
<b>26 05 36 00-0656 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting <small>(26 05 36 00-0551)</small></b>		
26 05 36 00-0657 EA 6" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	981.74	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.55	
26 05 36 00-0658 EA 9" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,009.20	307.65
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.28	
26 05 36 00-0659 EA 12" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,038.44	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.10	
26 05 36 00-0660 EA 18" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,104.06	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-81.10	
26 05 36 00-0661 EA 24" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,147.39	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.98	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0662	EA	30" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,229.40	409.78
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.79	
26 05 36 00-0663	EA	36" Wide, 24" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,339.22	461.46
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-95.47	
<b>26 05 36 00-0664</b>		<b>36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		
26 05 36 00-0665	EA	6" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,449.40	320.87
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-118.20	
26 05 36 00-0666	EA	9" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,485.39	335.33
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-120.59	
26 05 36 00-0667	EA	12" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,524.52	351.79
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-123.14	
26 05 36 00-0668	EA	18" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,597.59	388.40
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-127.39	
26 05 36 00-0669	EA	24" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,645.11	409.78
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-130.36	
26 05 36 00-0670	EA	30" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,766.81	461.46
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-138.23	
26 05 36 00-0671	EA	36" Wide, 36" Radius, Vertical Tees, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,887.56	526.84
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-144.86	
<b>26 05 36 00-0672</b>		<b>12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		
26 05 36 00-0673	EA	6" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	812.44	369.17
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.48	
26 05 36 00-0674	EA	9" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	854.07	388.40
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.04	
26 05 36 00-0675	EA	12" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	908.71	409.78
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.72	
26 05 36 00-0676	EA	18" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	971.25	434.55
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.92	
26 05 36 00-0677	EA	24" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,095.50	491.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.55	
26 05 36 00-0678	EA	30" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,208.17	526.84
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.92	
26 05 36 00-0679	EA	36" Wide, 12" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,315.37	568.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.18	
<b>26 05 36 00-0680</b>		<b>24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		
26 05 36 00-0681	EA	6" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,065.49	409.78
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.40	
26 05 36 00-0682	EA	9" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,118.53	434.55
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.64	
26 05 36 00-0683	EA	12" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,175.32	461.46
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.08	
26 05 36 00-0684	EA	18" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,252.28	491.92
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.23	
26 05 36 00-0685	EA	24" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,408.01	568.37
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-93.44	
26 05 36 00-0686	EA	30" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,517.20	615.28
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.45	
26 05 36 00-0687	EA	36" Wide, 24" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,688.00	670.66
		<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-112.91	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0688				<b>36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		
26 05 36 00-0689	EA			6" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,303.59	461.46
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-91.90	
26 05 36 00-0690	EA			9" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,378.18	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-96.82	
26 05 36 00-0691	EA			12" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,459.97	526.84
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-102.10	
26 05 36 00-0692	EA			18" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,588.55	568.37
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-111.50	
26 05 36 00-0693	EA			24" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,830.53	670.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-127.16	
26 05 36 00-0694	EA			30" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,000.63	737.12
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-138.63	
26 05 36 00-0695	EA			36" Wide, 36" Radius, Horizontal Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,199.94	821.10
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-151.57	
26 05 36 00-0696				<b>12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		
26 05 36 00-0697	EA			6" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	901.17	369.17
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-59.35	
26 05 36 00-0698	EA			9" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	947.29	388.56
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-62.35	
26 05 36 00-0699	EA			12" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,010.14	409.78
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-66.87	
26 05 36 00-0700	EA			18" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,082.70	434.70
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-72.05	
26 05 36 00-0701	EA			24" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,219.50	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-80.95	
26 05 36 00-0702	EA			30" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,357.16	526.99
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-91.80	
26 05 36 00-0703	EA			36" Wide, 12" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,479.90	567.60
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-100.69	
26 05 36 00-0704				<b>24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		
26 05 36 00-0705	EA			6" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,237.60	409.78
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-89.61	
26 05 36 00-0706	EA			9" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,295.98	434.55
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-93.39	
26 05 36 00-0707	EA			12" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,358.11	461.46
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-97.36	
26 05 36 00-0708	EA			18" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,446.83	491.92
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-103.69	
26 05 36 00-0709	EA			24" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,615.39	568.37
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-114.18	
26 05 36 00-0710	EA			30" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,738.48	615.28
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-122.57	
26 05 36 00-0711	EA			36" Wide, 24" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,944.56	670.66
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-138.56	
26 05 36 00-0712				<b>36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting</b> <small>(26 05 36 00-0551)</small>		
26 05 36 00-0713	EA			6" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,544.11	461.46
				<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> .....	-115.96	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0714 EA 9" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,629.38 -121.94	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0715 EA 12" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,721.87 -128.29	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0716 EA 18" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	1,877.17 -140.36	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0717 EA 24" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,151.22 -159.23	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0718 EA 30" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,348.04 -173.37	737.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0719 EA 36" Wide, 36" Radius, Vertical Crosses, 12" Rung Spacing, 4-5/8" High, Ladder Bottom Galvanized Steel Cable Tray Fitting.....	2,574.08 -188.98	821.10
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
<b>26 05 36 00-0720 Dropout Or End Plates And Reducers</b> (26 05 36 00-0002)		
<b>26 05 36 00-0721 Straight Reducers</b> (26 05 36 00-0720)		
26 05 36 00-0722 EA 9" To 6" Reducer, Steel Cable Tray.....	310.66 -21.60	113.52
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0723 EA 12" To 9" Reducer, Steel Cable Tray.....	328.93 -22.65	122.90
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0724 EA 18" To 12" Reducer, Steel Cable Tray.....	360.55 -24.23	141.83
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0725 EA 24" To 18" Reducer, Steel Cable Tray.....	400.20 -26.34	164.13
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0726 EA 30" To 24" Reducer, Steel Cable Tray.....	436.98 -28.32	184.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0727 EA 36" To 30" Reducer, Steel Cable Tray.....	496.68 -32.09	210.89
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
<b>26 05 36 00-0728 Reducers</b> (26 05 36 00-0720)		
26 05 36 00-0729 EA 18" To 6" Reducer, Steel Cable Tray.....	365.98 -24.77	141.98
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0730 EA 24" To 12" Reducer, Steel Cable Tray.....	405.87 -26.89	164.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0731 EA 30" To 12" Reducer, Steel Cable Tray.....	447.29 -29.36	184.43
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0732 EA 30" To 18" Reducer, Steel Cable Tray.....	452.33 -29.88	184.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0733 EA 36" To 12" Reducer, Steel Cable Tray.....	499.32 -32.36	210.89
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0734 EA 36" To 18" Reducer, Steel Cable Tray.....	513.84 -33.35	216.43
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
26 05 36 00-0735 EA 36" To 24" Reducer, Steel Cable Tray.....	530.64 -34.45	223.35
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
<b>26 05 36 00-0736 Dropout Or End Plate</b> (26 05 36 00-0720)		
26 05 36 00-0737 EA 6" Dropout Or End Plate, Steel Cable Tray.....	90.50	46.15
26 05 36 00-0738 EA 9" Dropout Or End Plate, Steel Cable Tray.....	103.80	52.76
26 05 36 00-0739 EA 12" Dropout Or End Plate, Steel Cable Tray.....	112.02	56.76
26 05 36 00-0740 EA 18" Dropout Or End Plate, Steel Cable Tray.....	132.29	67.07
26 05 36 00-0741 EA 24" Dropout Or End Plate, Steel Cable Tray.....	147.86	73.84
26 05 36 00-0742 EA 30" Dropout Or End Plate, Steel Cable Tray.....	163.95	81.98
26 05 36 00-0743 EA 36" Dropout Or End Plate, Steel Cable Tray.....	184.97	92.29
<b>26 05 36 00-0744 Ladder Bottom Aluminum Cable Tray</b> (26 05 36 00-0001) Note: 4-5/8" Height		
<b>26 05 36 00-0745 Straight Tray Sections</b> (26 05 36 00-0744)		
<b>26 05 36 00-0746 4" Rung Spacing</b> (26 05 36 00-0745)		
26 05 36 00-0747 LF 6" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	135.52 18.53 -12.65 6.78	10.77
<i>For Class 12C Instead Of Class 12B, Add</i>		
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>		
26 05 36 00-0748 LF 9" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	143.30 19.60 -13.38 7.17	11.38
<i>For Class 12C Instead Of Class 12B, Add</i>		
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>		
26 05 36 00-0749 LF 12" Aluminum Cable Tray, 4" Rung Spacing, Straight Section.....	151.07 20.68 -14.12 7.55	11.84
<i>For Class 12C Instead Of Class 12B, Add</i>		
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>		
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0750    LF    18" Aluminum Cable Tray, 4" Rung Spacing, Straight Section .....	167.82	12.92
<i>For Class 12C Instead Of Class 12B, Add</i>	23.01	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.70	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	8.39	
26 05 36 00-0751    LF    24" Aluminum Cable Tray, 4" Rung Spacing, Straight Section .....	193.77	13.84
<i>For Class 12C Instead Of Class 12B, Add</i>	26.77	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.23	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	9.69	
26 05 36 00-0752    LF    30" Aluminum Cable Tray, 4" Rung Spacing, Straight Section .....	212.54	14.77
<i>For Class 12C Instead Of Class 12B, Add</i>	29.43	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.03	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	10.63	
26 05 36 00-0753    LF    36" Aluminum Cable Tray, 4" Rung Spacing, Straight Section .....	229.13	15.69
<i>For Class 12C Instead Of Class 12B, Add</i>	31.75	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.60	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	11.46	
<b>26 05 36 00-0754    6" Rung Spacing</b> <small>(26 05 36 00-0745)</small>		
26 05 36 00-0755    LF    6" Aluminum Cable Tray, 6" Rung Spacing, Straight Section .....	124.84	10.77
<i>For Class 12C Instead Of Class 12B, Add</i>	16.93	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-11.58	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	6.24	
26 05 36 00-0756    LF    9" Aluminum Cable Tray, 6" Rung Spacing, Straight Section .....	131.99	11.38
<i>For Class 12C Instead Of Class 12B, Add</i>	17.91	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-12.25	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	6.60	
26 05 36 00-0757    LF    12" Aluminum Cable Tray, 6" Rung Spacing, Straight Section .....	139.14	11.84
<i>For Class 12C Instead Of Class 12B, Add</i>	18.89	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-12.92	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	6.96	
26 05 36 00-0758    LF    18" Aluminum Cable Tray, 6" Rung Spacing, Straight Section .....	154.54	12.92
<i>For Class 12C Instead Of Class 12B, Add</i>	21.02	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-14.37	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	7.73	
26 05 36 00-0759    LF    24" Aluminum Cable Tray, 6" Rung Spacing, Straight Section .....	178.24	13.84
<i>For Class 12C Instead Of Class 12B, Add</i>	24.44	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-16.68	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	8.91	
26 05 36 00-0760    LF    30" Aluminum Cable Tray, 6" Rung Spacing, Straight Section .....	195.45	14.77
<i>For Class 12C Instead Of Class 12B, Add</i>	26.87	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.32	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	9.77	
26 05 36 00-0761    LF    36" Aluminum Cable Tray, 6" Rung Spacing, Straight Section .....	210.69	15.69
<i>For Class 12C Instead Of Class 12B, Add</i>	28.98	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.76	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	10.53	
<b>26 05 36 00-0762    9" Rung Spacing</b> <small>(26 05 36 00-0745)</small>		
26 05 36 00-0763    LF    6" Aluminum Cable Tray, 9" Rung Spacing, Straight Section .....	111.05	10.31
<i>For Class 12C Instead Of Class 12B, Add</i>	14.93	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-10.24	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	5.55	
26 05 36 00-0764    LF    9" Aluminum Cable Tray, 9" Rung Spacing, Straight Section .....	112.33	10.77
<i>For Class 12C Instead Of Class 12B, Add</i>	15.05	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-10.33	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	5.62	
26 05 36 00-0765    LF    12" Aluminum Cable Tray, 9" Rung Spacing, Straight Section .....	120.50	11.38
<i>For Class 12C Instead Of Class 12B, Add</i>	16.19	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-11.11	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	6.03	
26 05 36 00-0766    LF    18" Aluminum Cable Tray, 9" Rung Spacing, Straight Section .....	128.65	12.15
<i>For Class 12C Instead Of Class 12B, Add</i>	17.27	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-11.85	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	6.43	
26 05 36 00-0767    LF    24" Aluminum Cable Tray, 9" Rung Spacing, Straight Section .....	146.05	12.61
<i>For Class 12C Instead Of Class 12B, Add</i>	19.81	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-13.56	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	7.30	
26 05 36 00-0768    LF    30" Aluminum Cable Tray, 9" Rung Spacing, Straight Section .....	161.83	13.53
<i>For Class 12C Instead Of Class 12B, Add</i>	22.01	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.05	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	8.09	
26 05 36 00-0769    LF    36" Aluminum Cable Tray, 9" Rung Spacing, Straight Section .....	171.62	14.77
<i>For Class 12C Instead Of Class 12B, Add</i>	23.28	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.93	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	8.58	
<b>26 05 36 00-0770    12" Rung Spacing</b> <small>(26 05 36 00-0745)</small>		
26 05 36 00-0771    LF    6" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....	108.89	10.00
<i>For Class 12C Instead Of Class 12B, Add</i>	14.67	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-10.06	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	5.44	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0772 LF 9" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....	110.01	10.31
For Class 12C Instead Of Class 12B, Add	14.78	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.14	
For 6" Overall Height Instead Of 4-5/8", Add	5.50	
26 05 36 00-0773 LF 12" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....	114.16	10.92
For Class 12C Instead Of Class 12B, Add	15.30	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.50	
For 6" Overall Height Instead Of 4-5/8", Add	5.71	
26 05 36 00-0774 LF 18" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....	120.95	11.54
For Class 12C Instead Of Class 12B, Add	16.21	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.13	
For 6" Overall Height Instead Of 4-5/8", Add	6.05	
26 05 36 00-0775 LF 24" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....	132.68	11.69
For Class 12C Instead Of Class 12B, Add	17.94	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.29	
For 6" Overall Height Instead Of 4-5/8", Add	6.63	
26 05 36 00-0776 LF 30" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....	142.36	12.92
For Class 12C Instead Of Class 12B, Add	19.21	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.16	
For 6" Overall Height Instead Of 4-5/8", Add	7.12	
26 05 36 00-0777 LF 36" Aluminum Cable Tray, 12" Rung Spacing, Straight Section .....	150.42	13.99
For Class 12C Instead Of Class 12B, Add	20.24	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-13.88	
For 6" Overall Height Instead Of 4-5/8", Add	7.52	
<b>26 05 36 00-0778 18" Rung Spacing</b> <small>(26 05 36 00-0745)</small>		
26 05 36 00-0779 LF 6" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....	107.91	9.69
For Class 12C Instead Of Class 12B, Add	14.57	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.98	
For 6" Overall Height Instead Of 4-5/8", Add	5.40	
26 05 36 00-0780 LF 9" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....	107.47	10.15
For Class 12C Instead Of Class 12B, Add	14.44	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-9.91	
For 6" Overall Height Instead Of 4-5/8", Add	5.37	
26 05 36 00-0781 LF 12" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....	113.39	10.46
For Class 12C Instead Of Class 12B, Add	15.26	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-10.46	
For 6" Overall Height Instead Of 4-5/8", Add	5.67	
26 05 36 00-0782 LF 18" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....	119.50	11.08
For Class 12C Instead Of Class 12B, Add	16.09	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.03	
For 6" Overall Height Instead Of 4-5/8", Add	5.98	
26 05 36 00-0783 LF 24" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....	127.60	11.23
For Class 12C Instead Of Class 12B, Add	17.27	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-11.83	
For 6" Overall Height Instead Of 4-5/8", Add	6.38	
26 05 36 00-0784 LF 30" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....	132.95	12.30
For Class 12C Instead Of Class 12B, Add	17.90	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.28	
For 6" Overall Height Instead Of 4-5/8", Add	6.65	
26 05 36 00-0785 LF 36" Aluminum Cable Tray, 18" Rung Spacing, Straight Section .....	140.12	13.38
For Class 12C Instead Of Class 12B, Add	18.78	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-12.89	
For 6" Overall Height Instead Of 4-5/8", Add	7.01	
<b>26 05 36 00-0786 4" Rung Tray Fittings</b> <small>(26 05 36 00-0744)</small>		
<b>26 05 36 00-0787 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0788 EA 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	400.74	154.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.22	
For 6" Overall Height Instead Of 4-5/8", Add	20.04	
26 05 36 00-0789 EA 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	440.20	175.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.38	
For 6" Overall Height Instead Of 4-5/8", Add	22.01	
26 05 36 00-0790 EA 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	498.29	194.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.64	
For 6" Overall Height Instead Of 4-5/8", Add	24.91	
26 05 36 00-0791 EA 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	593.28	238.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.49	
For 6" Overall Height Instead Of 4-5/8", Add	29.66	
26 05 36 00-0792 EA 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	699.35	273.34
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.15	
For 6" Overall Height Instead Of 4-5/8", Add	34.97	
26 05 36 00-0793 EA 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	771.00	307.65
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.46	
For 6" Overall Height Instead Of 4-5/8", Add	38.55	
26 05 36 00-0794 EA 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	898.86	351.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.58	
For 6" Overall Height Instead Of 4-5/8", Add	44.94	
<b>26 05 36 00-0795 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-0786)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0796 EA 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	522.06	160.44
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.83	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	26.10	
26 05 36 00-0797 EA 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	572.94	184.43
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.92	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.65	
26 05 36 00-0798 EA 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	620.11	205.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.92	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.01	
26 05 36 00-0799 EA 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	726.37	254.72
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.41	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	36.32	
26 05 36 00-0800 EA 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	823.41	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.72	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.17	
26 05 36 00-0801 EA 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	920.89	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.14	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	46.04	
26 05 36 00-0802 EA 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,054.81	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.11	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	52.74	
<b>26 05 36 00-0803     90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-0796)</small>		
26 05 36 00-0804 EA 6" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	559.56	167.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.98	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	27.98	
26 05 36 00-0805 EA 9" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	610.79	194.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.91	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	30.54	
26 05 36 00-0806 EA 12" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	682.21	217.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.12	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.11	
26 05 36 00-0807 EA 18" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	815.75	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.79	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.79	
26 05 36 00-0808 EA 24" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	942.25	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.48	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	47.11	
26 05 36 00-0809 EA 30" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,062.70	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.51	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	53.14	
26 05 36 00-0810 EA 36" Horizontal 90 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,235.74	433.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.43	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	61.79	
<b>26 05 36 00-0811     45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-0796)</small>		
26 05 36 00-0812 EA 6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	280.89	111.83
<i>For 60 Degree Bend, Deduct</i>	-49.84	
<i>For 30 Degree Bend, Deduct</i>	-89.28	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.77	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.04	
26 05 36 00-0813 EA 9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	321.67	134.13
<i>For 60 Degree Bend, Deduct</i>	-54.76	
<i>For 30 Degree Bend, Deduct</i>	-98.71	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-20.99	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.08	
26 05 36 00-0814 EA 12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	358.22	153.82
<i>For 60 Degree Bend, Deduct</i>	-59.25	
<i>For 30 Degree Bend, Deduct</i>	-107.29	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.00	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	17.91	
26 05 36 00-0815 EA 18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	444.02	194.43
<i>For 60 Degree Bend, Deduct</i>	-72.01	
<i>For 30 Degree Bend, Deduct</i>	-130.82	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.20	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.20	
26 05 36 00-0816 EA 24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	545.99	238.12
<i>For 60 Degree Bend, Deduct</i>	-88.90	
<i>For 30 Degree Bend, Deduct</i>	-161.40	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.76	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	27.30	
26 05 36 00-0817 EA 30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	626.60	273.34
<i>For 60 Degree Bend, Deduct</i>	-101.98	
<i>For 30 Degree Bend, Deduct</i>	-185.16	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.88	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.33	
26 05 36 00-0818 EA 36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	713.08	320.87
<i>For 60 Degree Bend, Deduct</i>	-112.30	
<i>For 30 Degree Bend, Deduct</i>	-205.00	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.57	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	35.65	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0819			<b>45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0820	EA		6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	319.51	115.36
			<i>For 60 Degree Bend, Deduct</i>	-61.23	
			<i>For 30 Degree Bend, Deduct</i>	-108.46	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.34	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	15.98	
26 05 36 00-0821	EA		9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	373.66	139.05
			<i>For 60 Degree Bend, Deduct</i>	-70.00	
			<i>For 30 Degree Bend, Deduct</i>	-124.39	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.78	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.68	
26 05 36 00-0822	EA		12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	413.11	160.59
			<i>For 60 Degree Bend, Deduct</i>	-74.78	
			<i>For 30 Degree Bend, Deduct</i>	-133.55	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.93	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	20.66	
26 05 36 00-0823	EA		18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	498.25	205.05
			<i>For 60 Degree Bend, Deduct</i>	-85.80	
			<i>For 30 Degree Bend, Deduct</i>	-154.40	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.73	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	24.91	
26 05 36 00-0824	EA		24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	606.33	254.72
			<i>For 60 Degree Bend, Deduct</i>	-102.47	
			<i>For 30 Degree Bend, Deduct</i>	-184.92	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.41	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	30.32	
26 05 36 00-0825	EA		30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	710.65	295.50
			<i>For 60 Degree Bend, Deduct</i>	-121.26	
			<i>For 30 Degree Bend, Deduct</i>	-218.52	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.45	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	35.53	
26 05 36 00-0826	EA		36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	815.38	351.79
			<i>For 60 Degree Bend, Deduct</i>	-134.25	
			<i>For 30 Degree Bend, Deduct</i>	-243.29	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.23	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.77	
26 05 36 00-0827			<b>45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0828	EA		6" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	369.30	119.06
			<i>For 60 Degree Bend, Deduct</i>	-76.25	
			<i>For 30 Degree Bend, Deduct</i>	-133.70	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.01	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.47	
26 05 36 00-0829	EA		9" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	415.55	144.59
			<i>For 60 Degree Bend, Deduct</i>	-81.71	
			<i>For 30 Degree Bend, Deduct</i>	-144.22	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.51	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	20.78	
26 05 36 00-0830	EA		12" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	457.92	167.82
			<i>For 60 Degree Bend, Deduct</i>	-86.79	
			<i>For 30 Degree Bend, Deduct</i>	-153.97	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.81	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.90	
26 05 36 00-0831	EA		18" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	558.53	217.20
			<i>For 60 Degree Bend, Deduct</i>	-101.03	
			<i>For 30 Degree Bend, Deduct</i>	-180.46	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-37.75	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	27.93	
26 05 36 00-0832	EA		24" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	695.71	273.34
			<i>For 60 Degree Bend, Deduct</i>	-124.79	
			<i>For 30 Degree Bend, Deduct</i>	-223.17	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.79	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.79	
26 05 36 00-0833	EA		30" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	789.47	320.87
			<i>For 60 Degree Bend, Deduct</i>	-137.51	
			<i>For 30 Degree Bend, Deduct</i>	-247.01	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.21	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	39.47	
26 05 36 00-0834	EA		36" Horizontal 45 Degree Elbow, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	927.49	388.40
			<i>For 60 Degree Bend, Deduct</i>	-157.17	
			<i>For 30 Degree Bend, Deduct</i>	-283.53	
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.38	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	46.37	
26 05 36 00-0835			<b>90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0836	EA		6" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	435.00	153.82
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-30.68	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	21.75	
26 05 36 00-0837	EA		9" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	481.26	175.67
			<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.48	
			<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	24.06	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0838 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	515.31 -35.35 25.77	194.28
26 05 36 00-0839 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	594.97 -39.65 29.75	238.12
26 05 36 00-0840 EA 24" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	663.49 -43.57 33.17	273.34
26 05 36 00-0841 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	730.34 -47.40 36.52	307.65
26 05 36 00-0842 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	809.42 -51.68 40.47	351.17
<b>26 05 36 00-0843 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0844 EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	460.68 -32.70 23.03	160.44
26 05 36 00-0845 EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	509.02 -35.52 25.45	184.58
26 05 36 00-0846 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	548.07 -37.72 27.40	205.05
26 05 36 00-0847 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	642.06 -42.98 32.10	254.72
26 05 36 00-0848 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	722.99 -47.68 36.15	295.50
26 05 36 00-0849 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	802.54 -52.31 40.13	335.33
26 05 36 00-0850 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	907.23 -58.35 45.36	388.40
<b>26 05 36 00-0851 90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0852 EA 6" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	578.27 -43.85 28.91	167.66
26 05 36 00-0853 EA 9" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	628.99 -46.71 31.45	194.28
26 05 36 00-0854 EA 12" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	686.88 -50.58 34.34	217.20
26 05 36 00-0855 EA 18" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	793.41 -56.56 39.67	273.34
26 05 36 00-0856 EA 24" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	885.61 -61.82 44.28	320.87
26 05 36 00-0857 EA 30" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	992.03 -68.44 49.60	369.17
26 05 36 00-0858 EA 36" Vertical Riser 90 Degree, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,115.83 -75.44 55.79	433.78
<b>26 05 36 00-0859 12" Radius Horizontal Tees</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0860 EA 6" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	698.43 -45.22 34.92	295.50
26 05 36 00-0861 EA 9" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	754.39 -48.70 37.72	320.87
26 05 36 00-0862 EA 12" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	781.88 -50.24 39.09	335.33
26 05 36 00-0863 EA 18" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	882.12 -57.45 44.11	369.17
26 05 36 00-0864 EA 24" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	976.91 -63.54 48.85	409.78
26 05 36 00-0865 EA 30" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,065.35 -70.33 53.27	434.55

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0866 EA 36" Horizontal Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	1,228.65	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.87	
For 6" Overall Height Instead Of 4-5/8", Add	61.43	
<b>26 05 36 00-0867 24" Radius Horizontal Tees (26 05 36 00-0786)</b>		
26 05 36 00-0868 EA 6" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	886.13	320.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.87	
For 6" Overall Height Instead Of 4-5/8", Add	44.31	
26 05 36 00-0869 EA 9" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	957.76	351.79
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.47	
For 6" Overall Height Instead Of 4-5/8", Add	47.89	
26 05 36 00-0870 EA 12" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	996.97	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.93	
For 6" Overall Height Instead Of 4-5/8", Add	49.85	
26 05 36 00-0871 EA 18" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,098.50	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-75.70	
For 6" Overall Height Instead Of 4-5/8", Add	54.93	
26 05 36 00-0872 EA 24" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,221.73	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-83.72	
For 6" Overall Height Instead Of 4-5/8", Add	61.09	
26 05 36 00-0873 EA 30" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,316.47	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-90.65	
For 6" Overall Height Instead Of 4-5/8", Add	65.82	
26 05 36 00-0874 EA 36" Horizontal Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,707.17	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-123.36	
For 6" Overall Height Instead Of 4-5/8", Add	85.36	
<b>26 05 36 00-0875 36" Radius Horizontal Tees (26 05 36 00-0786)</b>		
26 05 36 00-0876 EA 6" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,082.74	351.79
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.96	
For 6" Overall Height Instead Of 4-5/8", Add	54.14	
26 05 36 00-0877 EA 9" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,157.44	388.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-83.37	
For 6" Overall Height Instead Of 4-5/8", Add	57.87	
26 05 36 00-0878 EA 12" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,240.37	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-89.89	
For 6" Overall Height Instead Of 4-5/8", Add	62.02	
26 05 36 00-0879 EA 18" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,356.84	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-97.23	
For 6" Overall Height Instead Of 4-5/8", Add	67.84	
26 05 36 00-0880 EA 24" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,526.51	526.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-108.75	
For 6" Overall Height Instead Of 4-5/8", Add	76.33	
26 05 36 00-0881 EA 30" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,767.97	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-129.44	
For 6" Overall Height Instead Of 4-5/8", Add	88.40	
26 05 36 00-0882 EA 36" Horizontal Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	2,029.89	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-147.09	
For 6" Overall Height Instead Of 4-5/8", Add	101.49	
<b>26 05 36 00-0883 12" Radius Vertical Tees (26 05 36 00-0786)</b>		
26 05 36 00-0884 EA 6" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	918.38	273.34
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-69.06	
For 6" Overall Height Instead Of 4-5/8", Add	45.92	
26 05 36 00-0885 EA 9" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	949.85	284.11
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-71.31	
For 6" Overall Height Instead Of 4-5/8", Add	47.49	
26 05 36 00-0886 EA 12" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	972.03	295.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.58	
For 6" Overall Height Instead Of 4-5/8", Add	48.60	
26 05 36 00-0887 EA 18" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	1,024.62	320.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-75.72	
For 6" Overall Height Instead Of 4-5/8", Add	51.23	
26 05 36 00-0888 EA 24" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	1,089.26	335.33
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.98	
For 6" Overall Height Instead Of 4-5/8", Add	54.46	
26 05 36 00-0889 EA 30" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	1,155.72	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-84.81	
For 6" Overall Height Instead Of 4-5/8", Add	57.79	
26 05 36 00-0890 EA 36" Vertical Tee, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	1,240.37	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-89.89	
For 6" Overall Height Instead Of 4-5/8", Add	62.02	
<b>26 05 36 00-0891 24" Radius Vertical Tees (26 05 36 00-0786)</b>		
26 05 36 00-0892 EA 6" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,276.03	295.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-102.98	
For 6" Overall Height Instead Of 4-5/8", Add	63.80	
26 05 36 00-0893 EA 9" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,306.50	307.65
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-105.01	
For 6" Overall Height Instead Of 4-5/8", Add	65.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0894 EA 12" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,338.75 -107.13 66.94	320.87
26 05 36 00-0895 EA 18" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,413.76 -112.07 70.69	351.79
26 05 36 00-0896 EA 24" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,463.10 -115.55 73.16	369.17
26 05 36 00-0897 EA 30" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,551.13 -120.96 77.56	409.78
26 05 36 00-0898 EA 36" Vertical Tee, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,714.88 -133.03 85.74	461.46
<b>26 05 36 00-0899 36" Radius Vertical Tee</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0900 EA 6" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,025.62 -175.82 101.28	320.87
26 05 36 00-0901 EA 9" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,069.08 -178.96 103.45	335.33
26 05 36 00-0902 EA 12" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,115.70 -182.26 105.79	351.79
26 05 36 00-0903 EA 18" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,196.27 -187.26 109.81	388.40
26 05 36 00-0904 EA 24" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,251.27 -190.98 112.56	409.78
26 05 36 00-0905 EA 30" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,395.40 -201.08 119.77	461.46
26 05 36 00-0906 EA 36" Vertical Tee, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,523.63 -208.46 126.18	526.84
<b>26 05 36 00-0907 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0908 EA 6" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	902.39 -59.48 45.12	369.17
26 05 36 00-0909 EA 9" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	964.91 -64.12 48.25	388.40
26 05 36 00-0910 EA 12" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,003.93 -66.24 50.20	409.78
26 05 36 00-0911 EA 18" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,112.64 -75.05 55.63	434.55
26 05 36 00-0912 EA 24" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,221.89 -81.19 61.09	491.92
26 05 36 00-0913 EA 30" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,350.87 -91.19 67.54	526.84
26 05 36 00-0914 EA 36" Horizontal Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,538.28 -106.47 76.91	568.37
<b>26 05 36 00-0915 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-0786)</small>		
26 05 36 00-0916 EA 6" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,233.62 -89.21 61.68	409.78
26 05 36 00-0917 EA 9" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,291.66 -92.96 64.58	434.55
26 05 36 00-0918 EA 12" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,353.46 -96.89 67.67	461.46
26 05 36 00-0919 EA 18" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,434.69 -102.47 71.73	491.92
26 05 36 00-0920 EA 24" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,615.97 -114.24 80.80	568.37
26 05 36 00-0921 EA 30" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,752.90 -124.02 87.65	615.28

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0922 EA 36" Horizontal Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,937.96	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-137.90	
For 6" Overall Height Instead Of 4-5/8", Add	96.90	
<b>26 05 36 00-0923 36" Radius Horizontal Crosses (26 05 36 00-0786)</b>		
26 05 36 00-0924 EA 6" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,417.64	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-103.31	
For 6" Overall Height Instead Of 4-5/8", Add	70.88	
26 05 36 00-0925 EA 9" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,506.19	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-109.62	
For 6" Overall Height Instead Of 4-5/8", Add	75.31	
26 05 36 00-0926 EA 12" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,605.40	526.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-116.64	
For 6" Overall Height Instead Of 4-5/8", Add	80.27	
26 05 36 00-0927 EA 18" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,710.54	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-123.70	
For 6" Overall Height Instead Of 4-5/8", Add	85.53	
26 05 36 00-0928 EA 24" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,063.66	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-150.47	
For 6" Overall Height Instead Of 4-5/8", Add	103.18	
26 05 36 00-0929 EA 30" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,275.71	737.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-166.14	
For 6" Overall Height Instead Of 4-5/8", Add	113.79	
26 05 36 00-0930 EA 36" Horizontal Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,533.85	821.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-184.96	
For 6" Overall Height Instead Of 4-5/8", Add	126.69	
<b>26 05 36 00-0931 12" Radius Vertical Cross (26 05 36 00-0786)</b>		
26 05 36 00-0932 EA 6" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	902.39	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.48	
For 6" Overall Height Instead Of 4-5/8", Add	45.12	
26 05 36 00-0933 EA 9" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	965.13	388.56
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.13	
For 6" Overall Height Instead Of 4-5/8", Add	48.26	
26 05 36 00-0934 EA 12" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,003.81	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.24	
For 6" Overall Height Instead Of 4-5/8", Add	50.19	
26 05 36 00-0935 EA 18" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,112.92	434.70
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-75.07	
For 6" Overall Height Instead Of 4-5/8", Add	55.65	
26 05 36 00-0936 EA 24" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,221.89	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-81.19	
For 6" Overall Height Instead Of 4-5/8", Add	61.09	
26 05 36 00-0937 EA 30" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,351.27	526.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-91.21	
For 6" Overall Height Instead Of 4-5/8", Add	67.56	
26 05 36 00-0938 EA 36" Vertical Cross, 4" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,537.12	567.60
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-106.41	
For 6" Overall Height Instead Of 4-5/8", Add	76.86	
<b>26 05 36 00-0939 24" Radius Vertical Crosses (26 05 36 00-0786)</b>		
26 05 36 00-0940 EA 6" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,233.62	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-89.21	
For 6" Overall Height Instead Of 4-5/8", Add	61.68	
26 05 36 00-0941 EA 9" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,291.66	434.55
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.96	
For 6" Overall Height Instead Of 4-5/8", Add	64.58	
26 05 36 00-0942 EA 12" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,353.46	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-96.89	
For 6" Overall Height Instead Of 4-5/8", Add	67.67	
26 05 36 00-0943 EA 18" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,434.69	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-102.47	
For 6" Overall Height Instead Of 4-5/8", Add	71.73	
26 05 36 00-0944 EA 24" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,615.97	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-114.24	
For 6" Overall Height Instead Of 4-5/8", Add	80.80	
26 05 36 00-0945 EA 30" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,741.57	615.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-122.88	
For 6" Overall Height Instead Of 4-5/8", Add	87.08	
26 05 36 00-0946 EA 36" Vertical Cross, 4" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,925.18	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-136.62	
For 6" Overall Height Instead Of 4-5/8", Add	96.26	
<b>26 05 36 00-0947 36" Radius Vertical Crosses (26 05 36 00-0786)</b>		
26 05 36 00-0948 EA 6" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,709.48	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-132.49	
For 6" Overall Height Instead Of 4-5/8", Add	85.47	
26 05 36 00-0949 EA 9" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,799.49	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-138.95	
For 6" Overall Height Instead Of 4-5/8", Add	89.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0950 EA 12" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,916.30 -147.73 95.82	526.84
26 05 36 00-0951 EA 18" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,054.06 -158.05 102.70	568.37
26 05 36 00-0952 EA 24" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,489.26 -193.03 124.46	670.66
26 05 36 00-0953 EA 30" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,746.90 -213.26 137.35	737.12
26 05 36 00-0954 EA 36" Vertical Cross, 4" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	3,058.25 -237.40 152.91	821.10
<b>26 05 36 00-0955 6" Rung Tray Fittings</b> <small>(26 05 36 00-0744)</small>		
<b>26 05 36 00-0956 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-0957 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	380.22 -25.17 19.01	154.28
26 05 36 00-0958 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	419.16 -27.27 20.96	175.67
26 05 36 00-0959 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	473.35 -31.15 23.67	194.28
26 05 36 00-0960 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	565.22 -36.68 28.26	238.12
26 05 36 00-0961 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	664.53 -43.67 33.23	273.34
26 05 36 00-0962 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	734.10 -47.77 36.71	307.65
26 05 36 00-0963 EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	854.17 -56.12 42.71	351.63
<b>26 05 36 00-0964 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-0965 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	485.69 -35.20 24.28	160.44
26 05 36 00-0966 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	535.01 -38.13 26.75	184.43
26 05 36 00-0967 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	580.35 -40.94 29.02	205.05
26 05 36 00-0968 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	683.24 -47.10 34.16	254.72
26 05 36 00-0969 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	776.12 -52.99 38.81	295.50
26 05 36 00-0970 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	869.18 -58.97 43.46	335.33
26 05 36 00-0971 EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	996.61 -67.29 49.83	388.40
<b>26 05 36 00-0972 90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-0973 EA 6" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	519.55 -37.98 25.98	167.66
26 05 36 00-0974 EA 9" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	569.74 -40.80 28.49	194.12
26 05 36 00-0975 EA 12" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	636.48 -45.54 31.82	217.20
26 05 36 00-0976 EA 18" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	764.31 -53.65 38.22	273.34
26 05 36 00-0977 EA 24" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	884.05 -61.66 44.20	320.87

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0978 EA 30" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	998.79	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-69.12	
For 6" Overall Height Instead Of 4-5/8", Add	49.94	
26 05 36 00-0979 EA 36" Horizontal 90 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,162.47	433.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.11	
For 6" Overall Height Instead Of 4-5/8", Add	58.12	
<b>26 05 36 00-0980 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-0955)</b>		
26 05 36 00-0981 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	267.38	111.83
For 60 Degree Bend, Deduct	-45.38	
For 30 Degree Bend, Deduct	-81.85	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-17.42	
For 6" Overall Height Instead Of 4-5/8", Add	13.37	
26 05 36 00-0982 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	307.63	134.13
For 60 Degree Bend, Deduct	-50.12	
For 30 Degree Bend, Deduct	-90.99	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-19.59	
For 6" Overall Height Instead Of 4-5/8", Add	15.38	
26 05 36 00-0983 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	343.67	153.82
For 60 Degree Bend, Deduct	-54.45	
For 30 Degree Bend, Deduct	-99.29	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.55	
For 6" Overall Height Instead Of 4-5/8", Add	17.18	
26 05 36 00-0984 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	426.87	194.43
For 60 Degree Bend, Deduct	-66.35	
For 30 Degree Bend, Deduct	-121.39	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.49	
For 6" Overall Height Instead Of 4-5/8", Add	21.34	
26 05 36 00-0985 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	524.69	238.12
For 60 Degree Bend, Deduct	-81.87	
For 30 Degree Bend, Deduct	-149.68	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.63	
For 6" Overall Height Instead Of 4-5/8", Add	26.23	
26 05 36 00-0986 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	602.17	273.34
For 60 Degree Bend, Deduct	-93.92	
For 30 Degree Bend, Deduct	-171.72	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.44	
For 6" Overall Height Instead Of 4-5/8", Add	30.11	
26 05 36 00-0987 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	687.62	320.87
For 60 Degree Bend, Deduct	-103.90	
For 30 Degree Bend, Deduct	-191.00	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.02	
For 6" Overall Height Instead Of 4-5/8", Add	34.38	
<b>26 05 36 00-0988 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-0955)</b>		
26 05 36 00-0989 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	301.32	115.36
For 60 Degree Bend, Deduct	-55.23	
For 30 Degree Bend, Deduct	-98.46	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.52	
For 6" Overall Height Instead Of 4-5/8", Add	15.07	
26 05 36 00-0990 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	353.39	139.05
For 60 Degree Bend, Deduct	-63.31	
For 30 Degree Bend, Deduct	-113.24	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.75	
For 6" Overall Height Instead Of 4-5/8", Add	17.67	
26 05 36 00-0991 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	392.33	160.59
For 60 Degree Bend, Deduct	-67.92	
For 30 Degree Bend, Deduct	-122.12	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.85	
For 6" Overall Height Instead Of 4-5/8", Add	19.62	
26 05 36 00-0992 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	475.90	205.05
For 60 Degree Bend, Deduct	-78.43	
For 30 Degree Bend, Deduct	-142.10	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.50	
For 6" Overall Height Instead Of 4-5/8", Add	23.80	
26 05 36 00-0993 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	580.35	254.72
For 60 Degree Bend, Deduct	-93.89	
For 30 Degree Bend, Deduct	-170.64	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.81	
For 6" Overall Height Instead Of 4-5/8", Add	29.02	
26 05 36 00-0994 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	679.47	295.50
For 60 Degree Bend, Deduct	-110.98	
For 30 Degree Bend, Deduct	-201.37	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.33	
For 6" Overall Height Instead Of 4-5/8", Add	33.97	
26 05 36 00-0995 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	782.64	351.79
For 60 Degree Bend, Deduct	-123.44	
For 30 Degree Bend, Deduct	-225.28	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.95	
For 6" Overall Height Instead Of 4-5/8", Add	39.13	
<b>26 05 36 00-0996 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-0955)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-0997 EA 6" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	344.87	119.06
<i>For 60 Degree Bend, Deduct</i>	-68.19	
<i>For 30 Degree Bend, Deduct</i>	-120.26	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.57	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	17.24	
26 05 36 00-0998 EA 9" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	390.61	144.59
<i>For 60 Degree Bend, Deduct</i>	-73.48	
<i>For 30 Degree Bend, Deduct</i>	-130.50	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.01	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	19.53	
26 05 36 00-0999 EA 12" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	432.46	167.82
<i>For 60 Degree Bend, Deduct</i>	-78.39	
<i>For 30 Degree Bend, Deduct</i>	-139.97	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.26	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	21.62	
26 05 36 00-1000 EA 18" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	530.47	217.20
<i>For 60 Degree Bend, Deduct</i>	-91.77	
<i>For 30 Degree Bend, Deduct</i>	-165.02	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.94	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	26.52	
26 05 36 00-1001 EA 24" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	661.41	273.34
<i>For 60 Degree Bend, Deduct</i>	-113.47	
<i>For 30 Degree Bend, Deduct</i>	-204.31	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.36	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	33.07	
26 05 36 00-1002 EA 30" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	753.10	320.87
<i>For 60 Degree Bend, Deduct</i>	-125.51	
<i>For 30 Degree Bend, Deduct</i>	-227.01	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-48.57	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	37.66	
26 05 36 00-1003 EA 36" Horizontal 45 Degree Elbow, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	887.48	388.40
<i>For 60 Degree Bend, Deduct</i>	-143.97	
<i>For 30 Degree Bend, Deduct</i>	-261.52	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.38	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.37	
<b>26 05 36 00-1004 90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1005 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	420.71	153.82
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.25	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	21.04	
26 05 36 00-1006 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	466.19	175.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.98	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	23.31	
26 05 36 00-1007 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	499.98	194.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.61	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	25.00	
26 05 36 00-1008 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	579.12	238.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.07	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.96	
26 05 36 00-1009 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	646.86	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.90	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.34	
26 05 36 00-1010 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	712.93	307.65
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.66	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	35.65	
26 05 36 00-1011 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	791.49	351.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.88	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	39.57	
<b>26 05 36 00-1012 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1013 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	445.22	160.44
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-31.15	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.26	
26 05 36 00-1014 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	492.91	184.58
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.91	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	24.65	
26 05 36 00-1015 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	531.57	205.05
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-36.07	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	26.58	
26 05 36 00-1016 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	624.65	254.72
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.24	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.23	
26 05 36 00-1017 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	704.54	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.83	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	35.23	
26 05 36 00-1018 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	783.05	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.36	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	39.15	
26 05 36 00-1019 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	886.44	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.27	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.32	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-1020 90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1021 EA 6" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	554.37	167.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.46	
For 6" Overall Height Instead Of 4-5/8", Add	27.72	
26 05 36 00-1022 EA 9" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	604.56	194.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.27	
For 6" Overall Height Instead Of 4-5/8", Add	30.23	
26 05 36 00-1023 EA 12" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	660.90	217.20
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.99	
For 6" Overall Height Instead Of 4-5/8", Add	33.05	
26 05 36 00-1024 EA 18" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	766.38	273.34
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.86	
For 6" Overall Height Instead Of 4-5/8", Add	38.32	
26 05 36 00-1025 EA 24" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	857.55	320.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.01	
For 6" Overall Height Instead Of 4-5/8", Add	42.88	
26 05 36 00-1026 EA 30" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	961.89	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-65.43	
For 6" Overall Height Instead Of 4-5/8", Add	48.09	
26 05 36 00-1027 EA 36" Vertical Riser 90 Degree, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,084.39	433.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.30	
For 6" Overall Height Instead Of 4-5/8", Add	54.22	
<b>26 05 36 00-1028 12" Radius Horizontal Tees</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1029 EA 6" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	682.58	295.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.64	
For 6" Overall Height Instead Of 4-5/8", Add	34.13	
26 05 36 00-1030 EA 9" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	737.51	320.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-47.01	
For 6" Overall Height Instead Of 4-5/8", Add	36.88	
26 05 36 00-1031 EA 12" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	764.73	335.33
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.53	
For 6" Overall Height Instead Of 4-5/8", Add	38.24	
26 05 36 00-1032 EA 18" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	861.60	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.40	
For 6" Overall Height Instead Of 4-5/8", Add	43.08	
26 05 36 00-1033 EA 24" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	954.30	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.28	
For 6" Overall Height Instead Of 4-5/8", Add	47.72	
26 05 36 00-1034 EA 30" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	1,039.11	434.55
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.70	
For 6" Overall Height Instead Of 4-5/8", Add	51.96	
26 05 36 00-1035 EA 36" Horizontal Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	1,197.21	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.72	
For 6" Overall Height Instead Of 4-5/8", Add	59.86	
<b>26 05 36 00-1036 24" Radius Horizontal Tees</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1037 EA 6" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	859.11	320.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.17	
For 6" Overall Height Instead Of 4-5/8", Add	42.96	
26 05 36 00-1038 EA 9" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	929.18	351.79
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.61	
For 6" Overall Height Instead Of 4-5/8", Add	46.46	
26 05 36 00-1039 EA 12" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	967.61	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-66.00	
For 6" Overall Height Instead Of 4-5/8", Add	48.38	
26 05 36 00-1040 EA 18" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,066.55	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.50	
For 6" Overall Height Instead Of 4-5/8", Add	53.33	
26 05 36 00-1041 EA 24" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,186.91	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.24	
For 6" Overall Height Instead Of 4-5/8", Add	59.35	
26 05 36 00-1042 EA 30" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,278.28	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.83	
For 6" Overall Height Instead Of 4-5/8", Add	63.91	
26 05 36 00-1043 EA 36" Horizontal Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,648.71	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-117.51	
For 6" Overall Height Instead Of 4-5/8", Add	82.44	
<b>26 05 36 00-1044 36" Radius Horizontal Tees</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1045 EA 6" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,044.55	351.79
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-75.14	
For 6" Overall Height Instead Of 4-5/8", Add	52.23	
26 05 36 00-1046 EA 9" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,118.21	388.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-79.45	
For 6" Overall Height Instead Of 4-5/8", Add	55.91	
26 05 36 00-1047 EA 12" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,197.50	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-85.60	
For 6" Overall Height Instead Of 4-5/8", Add	59.88	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1048 EA 18" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,311.63 -92.71 65.98	461.46
26 05 36 00-1049 EA 24" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,476.62 -103.76 73.83	526.84
26 05 36 00-1050 EA 30" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,704.83 -123.12 85.24	568.37
26 05 36 00-1051 EA 36" Horizontal Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,959.73 -140.08 97.99	670.66
<b>26 05 36 00-1052 12" Radius Vertical Tees</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1053 EA 6" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	882.79 -65.50 44.14	273.34
26 05 36 00-1054 EA 9" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	913.22 -67.64 45.66	284.11
26 05 36 00-1055 EA 12" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	935.14 -68.89 46.76	295.50
26 05 36 00-1056 EA 18" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	986.94 -71.95 49.35	320.87
26 05 36 00-1057 EA 24" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,048.47 -76.90 52.42	335.33
26 05 36 00-1058 EA 30" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,114.15 -80.65 55.71	369.17
26 05 36 00-1059 EA 36" Vertical Tee, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,197.50 -85.60 59.88	409.78
<b>26 05 36 00-1060 24" Radius Vertical Tees</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1061 EA 6" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,215.75 -96.96 60.79	295.50
26 05 36 00-1062 EA 9" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,245.45 -98.91 62.27	307.65
26 05 36 00-1063 EA 12" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,276.91 -100.95 63.85	320.87
26 05 36 00-1064 EA 18" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,350.10 -105.70 67.51	351.79
26 05 36 00-1065 EA 24" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,397.88 -109.02 69.89	369.17
26 05 36 00-1066 EA 30" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,484.35 -114.28 74.22	409.78
26 05 36 00-1067 EA 36" Vertical Tee, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,642.13 -125.76 82.11	461.46
<b>26 05 36 00-1068 36" Radius Vertical Tees</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1069 EA 6" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,910.94 -164.35 95.55	320.87
26 05 36 00-1070 EA 9" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,952.92 -167.34 97.65	335.33
26 05 36 00-1071 EA 12" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,998.04 -170.49 99.90	351.79
26 05 36 00-1072 EA 18" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,077.13 -175.34 103.86	388.40
26 05 36 00-1073 EA 24" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,130.64 -178.91 106.53	409.78
26 05 36 00-1074 EA 30" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,270.30 -188.57 113.52	461.46
26 05 36 00-1075 EA 36" Vertical Tee, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,397.04 -195.81 119.85	526.84

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-1076 12" Radius Horizontal Crosses</b> (26 05 36 00-0955)		
26 05 36 00-1077 EA 6" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	880.30	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.27	
For 6" Overall Height Instead Of 4-5/8", Add	44.02	
26 05 36 00-1078 EA 9" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	940.49	388.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.68	
For 6" Overall Height Instead Of 4-5/8", Add	47.02	
26 05 36 00-1079 EA 12" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	979.24	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.77	
For 6" Overall Height Instead Of 4-5/8", Add	48.96	
26 05 36 00-1080 EA 18" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,082.76	434.55
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.07	
For 6" Overall Height Instead Of 4-5/8", Add	54.14	
26 05 36 00-1081 EA 24" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,190.97	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.10	
For 6" Overall Height Instead Of 4-5/8", Add	59.55	
26 05 36 00-1082 EA 30" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,314.49	526.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-87.55	
For 6" Overall Height Instead Of 4-5/8", Add	65.72	
26 05 36 00-1083 EA 36" Horizontal Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,492.81	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-101.92	
For 6" Overall Height Instead Of 4-5/8", Add	74.64	
<b>26 05 36 00-1084 24" Radius Horizontal Crosses</b> (26 05 36 00-0955)		
26 05 36 00-1085 EA 6" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,191.26	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-84.97	
For 6" Overall Height Instead Of 4-5/8", Add	59.56	
26 05 36 00-1086 EA 9" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,248.01	434.55
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.59	
For 6" Overall Height Instead Of 4-5/8", Add	62.40	
26 05 36 00-1087 EA 12" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,308.51	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-92.40	
For 6" Overall Height Instead Of 4-5/8", Add	65.43	
26 05 36 00-1088 EA 18" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,387.40	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-97.74	
For 6" Overall Height Instead Of 4-5/8", Add	69.37	
26 05 36 00-1089 EA 24" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,564.52	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-109.09	
For 6" Overall Height Instead Of 4-5/8", Add	78.23	
26 05 36 00-1090 EA 30" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,686.48	615.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-117.37	
For 6" Overall Height Instead Of 4-5/8", Add	84.32	
26 05 36 00-1091 EA 36" Horizontal Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,863.08	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-130.41	
For 6" Overall Height Instead Of 4-5/8", Add	93.15	
<b>26 05 36 00-1092 36" Radius Horizontal Crosses</b> (26 05 36 00-0955)		
26 05 36 00-1093 EA 6" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,367.75	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-98.32	
For 6" Overall Height Instead Of 4-5/8", Add	68.39	
26 05 36 00-1094 EA 9" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,443.53	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-103.36	
For 6" Overall Height Instead Of 4-5/8", Add	72.18	
26 05 36 00-1095 EA 12" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,538.98	526.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-110.00	
For 6" Overall Height Instead Of 4-5/8", Add	76.95	
26 05 36 00-1096 EA 18" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,651.82	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-117.82	
For 6" Overall Height Instead Of 4-5/8", Add	82.59	
26 05 36 00-1097 EA 24" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,990.91	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-143.20	
For 6" Overall Height Instead Of 4-5/8", Add	99.55	
26 05 36 00-1098 EA 30" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,195.16	737.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-158.09	
For 6" Overall Height Instead Of 4-5/8", Add	109.76	
26 05 36 00-1099 EA 36" Horizontal Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,444.21	821.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-176.00	
For 6" Overall Height Instead Of 4-5/8", Add	122.21	
<b>26 05 36 00-1100 12" Radius Vertical Crosses</b> (26 05 36 00-0955)		
26 05 36 00-1101 EA 6" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	880.30	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.27	
For 6" Overall Height Instead Of 4-5/8", Add	44.02	
26 05 36 00-1102 EA 9" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	940.71	388.56
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.69	
For 6" Overall Height Instead Of 4-5/8", Add	47.04	
26 05 36 00-1103 EA 12" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	979.12	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.77	
For 6" Overall Height Instead Of 4-5/8", Add	48.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1104 EA 18" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,083.04	434.70
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.08	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	54.15	
26 05 36 00-1105 EA 24" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,190.97	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.10	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	59.55	
26 05 36 00-1106 EA 30" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,314.89	526.99
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.57	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	65.74	
26 05 36 00-1107 EA 36" Vertical Cross, 6" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,491.65	567.60
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-101.86	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	74.58	
<b>26 05 36 00-1108 24" Radius Vertical Crosses</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1109 EA 6" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,191.26	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-84.97	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	59.56	
26 05 36 00-1110 EA 9" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,248.01	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.59	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	62.40	
26 05 36 00-1111 EA 12" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,308.51	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.40	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	65.43	
26 05 36 00-1112 EA 18" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,387.40	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-97.74	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	69.37	
26 05 36 00-1113 EA 24" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,564.52	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-109.09	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	78.23	
26 05 36 00-1114 EA 30" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,686.48	615.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-117.37	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	84.32	
26 05 36 00-1115 EA 36" Vertical Cross, 6" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,863.08	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-130.41	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	93.15	
<b>26 05 36 00-1116 36" Radius Vertical Crosses</b> <small>(26 05 36 00-0955)</small>		
26 05 36 00-1117 EA 6" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,637.14	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-125.26	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	81.86	
26 05 36 00-1118 EA 9" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,724.14	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-131.42	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	86.21	
26 05 36 00-1119 EA 12" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,836.43	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-139.74	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	91.82	
26 05 36 00-1120 EA 18" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,968.92	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-149.53	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	98.45	
26 05 36 00-1121 EA 24" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,383.77	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-182.48	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	119.19	
26 05 36 00-1122 EA 30" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,630.11	737.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-201.58	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	131.51	
26 05 36 00-1123 EA 36" Vertical Cross, 6" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,928.27	821.10
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-224.40	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	146.41	
<b>26 05 36 00-1124 9" Rung Tray Fittings</b> <small>(26 05 36 00-0744)</small>		
<b>26 05 36 00-1125 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1126 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	359.69	154.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.12	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	17.98	
26 05 36 00-1127 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	398.11	175.67
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-25.17	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	19.91	
26 05 36 00-1128 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	448.41	194.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.66	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.42	
26 05 36 00-1129 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	537.16	238.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.87	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	26.86	
26 05 36 00-1130 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	629.71	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.19	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.49	
26 05 36 00-1131 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	697.21	307.65
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.08	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.86	

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 36 Cable Trays for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1132 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	809.48	351.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.65	
For 6" Overall Height Instead Of 4-5/8", Add	40.47	
<b>26 05 36 00-1133 90 Degree, 24" Radius Horizontal Elbows</b> (26 05 36 00-1124)		
26 05 36 00-1134 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	449.31	160.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.56	
For 6" Overall Height Instead Of 4-5/8", Add	22.47	
26 05 36 00-1135 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	497.07	184.43
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.34	
For 6" Overall Height Instead Of 4-5/8", Add	24.85	
26 05 36 00-1136 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	540.60	205.05
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.97	
For 6" Overall Height Instead Of 4-5/8", Add	27.03	
26 05 36 00-1137 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	640.11	254.72
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.79	
For 6" Overall Height Instead Of 4-5/8", Add	32.01	
26 05 36 00-1138 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	728.83	295.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.26	
For 6" Overall Height Instead Of 4-5/8", Add	36.44	
26 05 36 00-1139 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	817.48	335.33
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-53.80	
For 6" Overall Height Instead Of 4-5/8", Add	40.87	
26 05 36 00-1140 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	938.41	388.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-61.47	
For 6" Overall Height Instead Of 4-5/8", Add	46.92	
<b>26 05 36 00-1141 90 Degree, 36" Radius Horizontal Elbows</b> (26 05 36 00-1124)		
26 05 36 00-1142 EA 6" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	479.54	167.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.98	
For 6" Overall Height Instead Of 4-5/8", Add	23.98	
26 05 36 00-1143 EA 9" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	528.68	194.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.70	
For 6" Overall Height Instead Of 4-5/8", Add	26.43	
26 05 36 00-1144 EA 12" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	590.75	217.20
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-40.97	
For 6" Overall Height Instead Of 4-5/8", Add	29.54	
26 05 36 00-1145 EA 18" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	712.86	273.34
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-48.50	
For 6" Overall Height Instead Of 4-5/8", Add	35.64	
26 05 36 00-1146 EA 24" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	825.85	320.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-55.84	
For 6" Overall Height Instead Of 4-5/8", Add	41.29	
26 05 36 00-1147 EA 30" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	934.87	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-62.72	
For 6" Overall Height Instead Of 4-5/8", Add	46.74	
26 05 36 00-1148 EA 36" Horizontal 90 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,089.20	433.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.78	
For 6" Overall Height Instead Of 4-5/8", Add	54.46	
<b>26 05 36 00-1149 45 Degree, 12" Radius Horizontal Elbows</b> (26 05 36 00-1124)		
26 05 36 00-1150 EA 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	253.87	111.83
For 60 Degree Bend, Deduct	-40.93	
For 30 Degree Bend, Deduct	-74.42	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-16.07	
For 6" Overall Height Instead Of 4-5/8", Add	12.69	
26 05 36 00-1151 EA 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	293.60	134.13
For 60 Degree Bend, Deduct	-45.49	
For 30 Degree Bend, Deduct	-83.27	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-18.19	
For 6" Overall Height Instead Of 4-5/8", Add	14.68	
26 05 36 00-1152 EA 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	329.12	153.82
For 60 Degree Bend, Deduct	-49.64	
For 30 Degree Bend, Deduct	-91.29	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-20.09	
For 6" Overall Height Instead Of 4-5/8", Add	16.46	
26 05 36 00-1153 EA 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	409.72	194.43
For 60 Degree Bend, Deduct	-60.69	
For 30 Degree Bend, Deduct	-111.95	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.77	
For 6" Overall Height Instead Of 4-5/8", Add	20.49	
26 05 36 00-1154 EA 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	503.38	238.12
For 60 Degree Bend, Deduct	-74.84	
For 30 Degree Bend, Deduct	-137.96	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.50	
For 6" Overall Height Instead Of 4-5/8", Add	25.17	
26 05 36 00-1155 EA 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	577.75	273.34
For 60 Degree Bend, Deduct	-85.86	
For 30 Degree Bend, Deduct	-158.29	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.99	
For 6" Overall Height Instead Of 4-5/8", Add	28.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1156 EA 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	662.16	320.87
<i>For 60 Degree Bend, Deduct</i>	-95.50	
<i>For 30 Degree Bend, Deduct</i>	-176.99	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.47	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	33.11	
<b>26 05 36 00-1157 45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1158 EA 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	283.13	115.36
<i>For 60 Degree Bend, Deduct</i>	-49.23	
<i>For 30 Degree Bend, Deduct</i>	-88.46	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.70	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.16	
26 05 36 00-1159 EA 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	333.12	139.05
<i>For 60 Degree Bend, Deduct</i>	-56.62	
<i>For 30 Degree Bend, Deduct</i>	-102.09	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.72	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.66	
26 05 36 00-1160 EA 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	371.54	160.59
<i>For 60 Degree Bend, Deduct</i>	-61.06	
<i>For 30 Degree Bend, Deduct</i>	-110.68	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.77	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.58	
26 05 36 00-1161 EA 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	453.56	205.05
<i>For 60 Degree Bend, Deduct</i>	-71.05	
<i>For 30 Degree Bend, Deduct</i>	-129.82	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-28.26	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.68	
26 05 36 00-1162 EA 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	554.36	254.72
<i>For 60 Degree Bend, Deduct</i>	-85.32	
<i>For 30 Degree Bend, Deduct</i>	-156.34	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.21	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	27.72	
26 05 36 00-1163 EA 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	648.29	295.50
<i>For 60 Degree Bend, Deduct</i>	-100.69	
<i>For 30 Degree Bend, Deduct</i>	-184.22	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-40.21	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.41	
26 05 36 00-1164 EA 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	749.90	351.79
<i>For 60 Degree Bend, Deduct</i>	-112.64	
<i>For 30 Degree Bend, Deduct</i>	-207.27	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.68	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	37.50	
<b>26 05 36 00-1165 45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1166 EA 6" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	320.45	119.06
<i>For 60 Degree Bend, Deduct</i>	-60.13	
<i>For 30 Degree Bend, Deduct</i>	-106.83	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-22.13	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.02	
26 05 36 00-1167 EA 9" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	365.67	144.59
<i>For 60 Degree Bend, Deduct</i>	-65.25	
<i>For 30 Degree Bend, Deduct</i>	-116.79	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.52	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.28	
26 05 36 00-1168 EA 12" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	407.00	167.82
<i>For 60 Degree Bend, Deduct</i>	-69.98	
<i>For 30 Degree Bend, Deduct</i>	-125.96	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-26.72	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	20.35	
26 05 36 00-1169 EA 18" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	502.41	217.20
<i>For 60 Degree Bend, Deduct</i>	-82.51	
<i>For 30 Degree Bend, Deduct</i>	-149.59	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-32.14	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	25.12	
26 05 36 00-1170 EA 24" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	627.12	273.34
<i>For 60 Degree Bend, Deduct</i>	-102.15	
<i>For 30 Degree Bend, Deduct</i>	-185.45	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.93	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.36	
26 05 36 00-1171 EA 30" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	716.72	320.87
<i>For 60 Degree Bend, Deduct</i>	-113.50	
<i>For 30 Degree Bend, Deduct</i>	-207.00	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-44.93	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	35.84	
26 05 36 00-1172 EA 36" Horizontal 45 Degree Elbow, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	847.47	388.40
<i>For 60 Degree Bend, Deduct</i>	-130.76	
<i>For 30 Degree Bend, Deduct</i>	-239.52	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.38	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	42.37	
<b>26 05 36 00-1173 90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1124)</small>		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1174 EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	399.28 -27.11 19.96	153.82
26 05 36 00-1175 EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	443.58 -29.71 22.18	175.67
26 05 36 00-1176 EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	476.99 -31.51 23.85	194.28
26 05 36 00-1177 EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	555.35 -35.69 27.77	238.12
26 05 36 00-1178 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	621.92 -39.41 31.10	273.34
26 05 36 00-1179 EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	686.81 -43.04 34.34	307.65
26 05 36 00-1180 EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	764.60 -47.19 38.23	351.17
<b>26 05 36 00-1181 90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1182 EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	422.03 -28.83 21.10	160.44
26 05 36 00-1183 EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	468.74 -31.49 23.44	184.58
26 05 36 00-1184 EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	506.82 -33.59 25.34	205.05
26 05 36 00-1185 EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	598.53 -38.63 29.93	254.72
26 05 36 00-1186 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	676.87 -43.07 33.84	295.50
26 05 36 00-1187 EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	753.82 -47.43 37.69	335.33
26 05 36 00-1188 EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	855.26 -53.16 42.76	388.40
<b>26 05 36 00-1189 90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1190 EA 6" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	518.51 -37.88 25.93	167.66
26 05 36 00-1191 EA 9" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	567.93 -40.61 28.40	194.28
26 05 36 00-1192 EA 12" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	621.93 -44.09 31.10	217.20
26 05 36 00-1193 EA 18" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	725.85 -49.80 36.29	273.34
26 05 36 00-1194 EA 24" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	815.45 -54.80 40.77	320.87
26 05 36 00-1195 EA 30" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	916.68 -60.90 45.83	369.17
26 05 36 00-1196 EA 36" Vertical Riser 90 Degree, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,037.23 -67.58 51.86	433.78
<b>26 05 36 00-1197 12" Radius Horizontal Tees</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1198 EA 6" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	650.89 -40.47 32.54	295.50
26 05 36 00-1199 EA 9" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	703.73 -43.63 35.19	320.87
26 05 36 00-1200 EA 12" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	730.44 -45.10 36.52	335.33
26 05 36 00-1201 EA 18" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	820.54 -51.29 41.03	369.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1202 EA 24" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	909.09	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.76	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	45.45	
26 05 36 00-1203 EA 30" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	986.63	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.45	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	49.33	
26 05 36 00-1204 EA 36" Horizontal Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,134.33	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.44	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	56.72	
<b>26 05 36 00-1205 24" Radius Horizontal Tees</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1206 EA 6" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	805.06	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.76	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.25	
26 05 36 00-1207 EA 9" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	872.02	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.89	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	43.60	
26 05 36 00-1208 EA 12" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	908.89	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.13	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	45.44	
26 05 36 00-1209 EA 18" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,002.63	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.11	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	50.13	
26 05 36 00-1210 EA 24" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,117.28	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-73.27	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	55.86	
26 05 36 00-1211 EA 30" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,201.89	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.19	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	60.09	
26 05 36 00-1212 EA 36" Horizontal Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,531.78	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-105.82	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	76.59	
<b>26 05 36 00-1213 36" Radius Horizontal Tees</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1214 EA 6" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	968.16	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-67.51	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	48.41	
26 05 36 00-1215 EA 9" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,039.74	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.60	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	51.99	
26 05 36 00-1216 EA 12" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,111.76	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.02	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	55.59	
26 05 36 00-1217 EA 18" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,221.21	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.67	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	61.06	
26 05 36 00-1218 EA 24" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,376.85	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-93.79	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	68.84	
26 05 36 00-1219 EA 30" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,578.55	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-110.50	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	78.93	
26 05 36 00-1220 EA 36" Horizontal Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,819.43	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-126.05	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	90.97	
<b>26 05 36 00-1221 12" Radius Vertical Tees</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1222 EA 6" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	811.59	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.38	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.58	
26 05 36 00-1223 EA 9" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	839.95	284.11
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.32	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	42.00	
26 05 36 00-1224 EA 12" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	861.35	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-61.52	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	43.07	
26 05 36 00-1225 EA 18" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	911.59	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.42	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	45.58	
26 05 36 00-1226 EA 24" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	966.88	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.74	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	48.34	
26 05 36 00-1227 EA 30" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,031.00	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.34	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	51.55	
26 05 36 00-1228 EA 36" Vertical Tee, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,111.76	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-77.02	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	55.59	
<b>26 05 36 00-1229 24" Radius Vertical Tees</b> <small>(26 05 36 00-1124)</small>		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1230 EA 6" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,095.19 -84.90 54.76	295.50
26 05 36 00-1231 EA 9" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,123.33 -86.70 56.17	307.65
26 05 36 00-1232 EA 12" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,153.23 -88.58 57.66	320.87
26 05 36 00-1233 EA 18" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,222.79 -92.97 61.14	351.79
26 05 36 00-1234 EA 24" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,267.45 -95.98 63.37	369.17
26 05 36 00-1235 EA 30" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,350.80 -100.93 67.54	409.78
26 05 36 00-1236 EA 36" Vertical Tee, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,496.63 -111.21 74.83	461.46
<b>26 05 36 00-1237 36" Radius Vertical Tees</b> (26 05 36 00-1124)		
26 05 36 00-1238 EA 6" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,681.59 -141.42 84.08	320.87
26 05 36 00-1239 EA 9" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,720.59 -144.11 86.03	335.33
26 05 36 00-1240 EA 12" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,762.74 -146.96 88.14	351.79
26 05 36 00-1241 EA 18" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,838.84 -151.51 91.94	388.40
26 05 36 00-1242 EA 24" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,889.37 -154.79 94.47	409.78
26 05 36 00-1243 EA 30" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,020.10 -163.55 101.01	461.46
26 05 36 00-1244 EA 36" Vertical Tee, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	2,143.86 -170.49 107.19	526.84
<b>26 05 36 00-1245 12" Radius Horizontal Crosses</b> (26 05 36 00-1124)		
26 05 36 00-1246 EA 6" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	836.13 -52.85 41.81	369.17
26 05 36 00-1247 EA 9" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	891.64 -56.79 44.58	388.40
26 05 36 00-1248 EA 12" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	929.88 -58.84 46.49	409.78
26 05 36 00-1249 EA 18" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,023.00 -66.09 51.15	434.55
26 05 36 00-1250 EA 24" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,129.14 -71.92 56.46	491.92
26 05 36 00-1251 EA 30" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,241.74 -80.28 62.09	526.84
26 05 36 00-1252 EA 36" Horizontal Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,401.87 -92.83 70.09	568.37
<b>26 05 36 00-1253 24" Radius Horizontal Crosses</b> (26 05 36 00-1124)		
26 05 36 00-1254 EA 6" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,106.56 -76.50 55.33	409.78
26 05 36 00-1255 EA 9" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,160.71 -79.86 58.04	434.55
26 05 36 00-1256 EA 12" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,218.61 -83.41 60.93	461.46
26 05 36 00-1257 EA 18" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray ..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	1,292.83 -88.29 64.64	491.92





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1258 EA 24" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,461.63	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.80	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	73.08	
26 05 36 00-1259 EA 30" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,576.32	615.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.36	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	78.82	
26 05 36 00-1260 EA 36" Horizontal Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,738.88	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-117.99	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	86.94	
<b>26 05 36 00-1261 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1262 EA 6" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,267.98	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.34	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	63.40	
26 05 36 00-1263 EA 9" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,339.60	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.96	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	66.98	
26 05 36 00-1264 EA 12" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,428.82	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.98	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	71.44	
26 05 36 00-1265 EA 18" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,534.38	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.08	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	76.72	
26 05 36 00-1266 EA 24" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,845.41	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-128.65	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	92.27	
26 05 36 00-1267 EA 30" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,034.07	737.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-141.98	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	101.70	
26 05 36 00-1268 EA 36" Horizontal Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,264.93	821.10
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-158.07	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	113.25	
<b>26 05 36 00-1269 12" Radius Vertical Crosses</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1270 EA 6" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	836.13	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.85	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.81	
26 05 36 00-1271 EA 9" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	891.64	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.79	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.58	
26 05 36 00-1272 EA 12" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	929.88	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-58.84	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	46.49	
26 05 36 00-1273 EA 18" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,023.00	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-66.09	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	51.15	
26 05 36 00-1274 EA 24" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,129.14	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-71.92	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	56.46	
26 05 36 00-1275 EA 30" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,241.74	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-80.28	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	62.09	
26 05 36 00-1276 EA 36" Vertical Cross, 9" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,399.55	566.83
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-92.71	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	69.98	
<b>26 05 36 00-1277 24" Radius Vertical Crosses</b> <small>(26 05 36 00-1124)</small>		
26 05 36 00-1278 EA 6" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,106.56	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.50	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	55.33	
26 05 36 00-1279 EA 9" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,160.71	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-79.86	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	58.04	
26 05 36 00-1280 EA 12" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,218.61	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.41	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	60.93	
26 05 36 00-1281 EA 18" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,292.83	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.29	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	64.64	
26 05 36 00-1282 EA 24" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,461.63	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-98.80	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	73.08	
26 05 36 00-1283 EA 30" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,576.32	615.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-106.36	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	78.82	
26 05 36 00-1284 EA 36" Vertical Cross, 9" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,738.88	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-117.99	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	86.94	
<b>26 05 36 00-1285 36" Radius Vertical Crosses</b> <small>(26 05 36 00-1124)</small>		

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1286 EA 6" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,492.47	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-110.79	
For 6" Overall Height Instead Of 4-5/8", Add	74.62	
26 05 36 00-1287 EA 9" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,573.44	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-116.35	
For 6" Overall Height Instead Of 4-5/8", Add	78.67	
26 05 36 00-1288 EA 12" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,676.69	526.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-123.77	
For 6" Overall Height Instead Of 4-5/8", Add	83.83	
26 05 36 00-1289 EA 18" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,798.63	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-132.50	
For 6" Overall Height Instead Of 4-5/8", Add	89.93	
26 05 36 00-1290 EA 24" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,172.79	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-161.38	
For 6" Overall Height Instead Of 4-5/8", Add	108.64	
26 05 36 00-1291 EA 30" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,396.53	737.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-178.22	
For 6" Overall Height Instead Of 4-5/8", Add	119.83	
26 05 36 00-1292 EA 36" Vertical Cross, 9" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,668.31	821.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-198.41	
For 6" Overall Height Instead Of 4-5/8", Add	133.42	
<b>26 05 36 00-1293 12" Rung Tray Fittings (26 05 36 00-0744)</b>		
<b>26 05 36 00-1294 90 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1293)</b>		
26 05 36 00-1295 EA 6" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	352.51	154.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.40	
For 6" Overall Height Instead Of 4-5/8", Add	17.63	
26 05 36 00-1296 EA 9" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	390.74	175.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.43	
For 6" Overall Height Instead Of 4-5/8", Add	19.54	
26 05 36 00-1297 EA 12" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	439.68	194.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.78	
For 6" Overall Height Instead Of 4-5/8", Add	21.98	
26 05 36 00-1298 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	527.34	238.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.89	
For 6" Overall Height Instead Of 4-5/8", Add	26.37	
26 05 36 00-1299 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	617.53	273.34
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.97	
For 6" Overall Height Instead Of 4-5/8", Add	30.88	
26 05 36 00-1300 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	684.29	307.65
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-42.79	
For 6" Overall Height Instead Of 4-5/8", Add	34.21	
26 05 36 00-1301 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	793.84	351.63
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.08	
For 6" Overall Height Instead Of 4-5/8", Add	39.69	
<b>26 05 36 00-1302 90 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1293)</b>		
26 05 36 00-1303 EA 6" Horizontal 90 Degree Elbow, 24" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	436.58	160.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-30.29	
For 6" Overall Height Instead Of 4-5/8", Add	21.83	
26 05 36 00-1304 EA 9" Horizontal 90 Degree Elbow, 24" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	483.80	184.43
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-33.01	
For 6" Overall Height Instead Of 4-5/8", Add	24.19	
26 05 36 00-1305 EA 12" Horizontal 90 Degree Elbow, 24" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	526.68	205.05
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.58	
For 6" Overall Height Instead Of 4-5/8", Add	26.33	
26 05 36 00-1306 EA 18" Horizontal 90 Degree Elbow, 24" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	625.01	254.72
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.28	
For 6" Overall Height Instead Of 4-5/8", Add	31.25	
26 05 36 00-1307 EA 24" Horizontal 90 Degree Elbow, 24" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	712.28	295.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-46.61	
For 6" Overall Height Instead Of 4-5/8", Add	35.61	
26 05 36 00-1308 EA 30" Horizontal 90 Degree Elbow, 24" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	799.38	335.33
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-51.99	
For 6" Overall Height Instead Of 4-5/8", Add	39.97	
26 05 36 00-1309 EA 36" Horizontal 90 Degree Elbow, 24" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	918.04	388.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-59.43	
For 6" Overall Height Instead Of 4-5/8", Add	45.90	
<b>26 05 36 00-1310 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1293)</b>		
26 05 36 00-1311 EA 6" Horizontal 90 Degree Elbow, 36" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	465.53	167.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-32.58	
For 6" Overall Height Instead Of 4-5/8", Add	23.28	
26 05 36 00-1312 EA 9" Horizontal 90 Degree Elbow, 36" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	514.32	194.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-35.26	
For 6" Overall Height Instead Of 4-5/8", Add	25.72	
26 05 36 00-1313 EA 12" Horizontal 90 Degree Elbow, 36" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	574.74	217.20
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-39.37	
For 6" Overall Height Instead Of 4-5/8", Add	28.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1314 EA 18" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	694.85	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-46.70	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.74	
26 05 36 00-1315 EA 24" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	805.48	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-53.81	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.27	
26 05 36 00-1316 EA 30" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	912.50	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-60.49	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	45.63	
26 05 36 00-1317 EA 36" Horizontal 90 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,063.55	433.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-70.21	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	53.18	
<b>26 05 36 00-1318 45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1319 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	249.14	111.83
<i>For 60 Degree Bend, Deduct</i>	-39.36	
<i>For 30 Degree Bend, Deduct</i>	-71.82	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-15.60	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	12.46	
26 05 36 00-1320 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	288.69	134.13
<i>For 60 Degree Bend, Deduct</i>	-43.87	
<i>For 30 Degree Bend, Deduct</i>	-80.57	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-17.70	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	14.43	
26 05 36 00-1321 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	324.03	153.82
<i>For 60 Degree Bend, Deduct</i>	-47.96	
<i>For 30 Degree Bend, Deduct</i>	-88.49	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-19.58	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.20	
26 05 36 00-1322 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	403.72	194.43
<i>For 60 Degree Bend, Deduct</i>	-58.71	
<i>For 30 Degree Bend, Deduct</i>	-108.65	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-24.17	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	20.19	
26 05 36 00-1323 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	495.92	238.12
<i>For 60 Degree Bend, Deduct</i>	-72.38	
<i>For 30 Degree Bend, Deduct</i>	-133.86	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-29.75	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	24.80	
26 05 36 00-1324 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	569.20	273.34
<i>For 60 Degree Bend, Deduct</i>	-83.04	
<i>For 30 Degree Bend, Deduct</i>	-153.59	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-34.14	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	28.46	
26 05 36 00-1325 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	653.24	320.87
<i>For 60 Degree Bend, Deduct</i>	-92.56	
<i>For 30 Degree Bend, Deduct</i>	-172.09	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.58	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	32.66	
<b>26 05 36 00-1326 45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1327 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	276.76	115.36
<i>For 60 Degree Bend, Deduct</i>	-47.13	
<i>For 30 Degree Bend, Deduct</i>	-84.95	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-18.07	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	13.84	
26 05 36 00-1328 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	326.03	139.05
<i>For 60 Degree Bend, Deduct</i>	-54.28	
<i>For 30 Degree Bend, Deduct</i>	-98.19	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-21.01	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	16.30	
26 05 36 00-1329 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	364.27	160.59
<i>For 60 Degree Bend, Deduct</i>	-58.66	
<i>For 30 Degree Bend, Deduct</i>	-106.69	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-23.05	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	18.21	
26 05 36 00-1330 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	445.74	205.05
<i>For 60 Degree Bend, Deduct</i>	-68.47	
<i>For 30 Degree Bend, Deduct</i>	-125.52	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-27.48	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	22.29	
26 05 36 00-1331 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	545.27	254.72
<i>For 60 Degree Bend, Deduct</i>	-82.32	
<i>For 30 Degree Bend, Deduct</i>	-151.34	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-33.30	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	27.26	
26 05 36 00-1332 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	637.37	295.50
<i>For 60 Degree Bend, Deduct</i>	-97.08	
<i>For 30 Degree Bend, Deduct</i>	-178.22	
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-39.12	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.87	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1333 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	738.44	351.79
For 60 Degree Bend, Deduct	-108.86	
For 30 Degree Bend, Deduct	-200.97	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-44.53	
For 6" Overall Height Instead Of 4-5/8", Add	36.92	
<b>26 05 36 00-1334 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1293)</b>		
26 05 36 00-1335 EA 6" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	311.90	119.06
For 60 Degree Bend, Deduct	-57.31	
For 30 Degree Bend, Deduct	-102.13	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.27	
For 6" Overall Height Instead Of 4-5/8", Add	15.60	
26 05 36 00-1336 EA 9" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	356.94	144.59
For 60 Degree Bend, Deduct	-62.37	
For 30 Degree Bend, Deduct	-111.98	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-23.65	
For 6" Overall Height Instead Of 4-5/8", Add	17.85	
26 05 36 00-1337 EA 12" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	398.08	167.82
For 60 Degree Bend, Deduct	-67.04	
For 30 Degree Bend, Deduct	-121.06	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.82	
For 6" Overall Height Instead Of 4-5/8", Add	19.90	
26 05 36 00-1338 EA 18" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	492.59	217.20
For 60 Degree Bend, Deduct	-79.27	
For 30 Degree Bend, Deduct	-144.19	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.15	
For 6" Overall Height Instead Of 4-5/8", Add	24.63	
26 05 36 00-1339 EA 24" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	615.11	273.34
For 60 Degree Bend, Deduct	-98.19	
For 30 Degree Bend, Deduct	-178.84	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-38.73	
For 6" Overall Height Instead Of 4-5/8", Add	30.76	
26 05 36 00-1340 EA 30" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	703.99	320.87
For 60 Degree Bend, Deduct	-109.30	
For 30 Degree Bend, Deduct	-200.00	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-43.66	
For 6" Overall Height Instead Of 4-5/8", Add	35.20	
26 05 36 00-1341 EA 36" Horizontal 45 Degree Elbow, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	833.46	388.40
For 60 Degree Bend, Deduct	-126.14	
For 30 Degree Bend, Deduct	-231.81	
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-50.98	
For 6" Overall Height Instead Of 4-5/8", Add	41.67	
<b>26 05 36 00-1342 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1293)</b>		
26 05 36 00-1343 EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	384.98	153.82
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-25.68	
For 6" Overall Height Instead Of 4-5/8", Add	19.25	
26 05 36 00-1344 EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	428.51	175.67
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-28.21	
For 6" Overall Height Instead Of 4-5/8", Add	21.43	
26 05 36 00-1345 EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	461.66	194.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.98	
For 6" Overall Height Instead Of 4-5/8", Add	23.08	
26 05 36 00-1346 EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	539.50	238.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-34.11	
For 6" Overall Height Instead Of 4-5/8", Add	26.98	
26 05 36 00-1347 EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	605.29	273.34
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-37.75	
For 6" Overall Height Instead Of 4-5/8", Add	30.26	
26 05 36 00-1348 EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	669.41	307.65
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.30	
For 6" Overall Height Instead Of 4-5/8", Add	33.47	
26 05 36 00-1349 EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	746.67	351.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-45.40	
For 6" Overall Height Instead Of 4-5/8", Add	37.33	
<b>26 05 36 00-1350 90 Degree, 24" Radius Vertical Risers (26 05 36 00-1293)</b>		
26 05 36 00-1351 EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	406.57	160.44
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-27.29	
For 6" Overall Height Instead Of 4-5/8", Add	20.33	
26 05 36 00-1352 EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	452.63	184.58
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-29.88	
For 6" Overall Height Instead Of 4-5/8", Add	22.63	
26 05 36 00-1353 EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	490.32	205.05
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-31.94	
For 6" Overall Height Instead Of 4-5/8", Add	24.52	
26 05 36 00-1354 EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	581.13	254.72
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-36.89	
For 6" Overall Height Instead Of 4-5/8", Add	29.06	
26 05 36 00-1355 EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	658.42	295.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-41.22	
For 6" Overall Height Instead Of 4-5/8", Add	32.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1356 EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	734.33	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-45.49	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	36.72	
26 05 36 00-1357 EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	834.48	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.08	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	41.72	
<b>26 05 36 00-1358 90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1359 EA 6" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	494.61	167.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-35.49	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	24.73	
26 05 36 00-1360 EA 9" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	543.50	194.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.17	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	27.18	
26 05 36 00-1361 EA 12" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	595.95	217.20
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.49	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	29.80	
26 05 36 00-1362 EA 18" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	698.83	273.34
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-47.10	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.94	
26 05 36 00-1363 EA 24" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	787.39	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-52.00	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	39.37	
26 05 36 00-1364 EA 30" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	886.54	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.89	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.33	
26 05 36 00-1365 EA 36" Vertical Riser 90 Degree, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	1,005.79	433.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-64.44	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	50.29	
<b>26 05 36 00-1366 12" Radius Horizontal Tees</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1367 EA 6" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	635.04	295.50
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-38.88	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	31.75	
26 05 36 00-1368 EA 9" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	686.84	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-41.94	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	34.34	
26 05 36 00-1369 EA 12" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	713.29	335.33
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-43.38	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	35.66	
26 05 36 00-1370 EA 18" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	800.02	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-49.24	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.00	
26 05 36 00-1371 EA 24" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	886.49	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.50	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	44.32	
26 05 36 00-1372 EA 30" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	960.38	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-59.83	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	48.02	
26 05 36 00-1373 EA 36" Horizontal Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray .....	1,102.89	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.29	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	55.14	
<b>26 05 36 00-1374 24" Radius Horizontal Tees</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1375 EA 6" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	778.04	320.87
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-51.06	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	38.90	
26 05 36 00-1376 EA 9" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	843.44	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-55.03	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	42.17	
26 05 36 00-1377 EA 12" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	879.53	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-57.19	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	43.98	
26 05 36 00-1378 EA 18" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	970.67	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-62.92	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	48.53	
26 05 36 00-1379 EA 24" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,082.46	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-69.79	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	54.12	
26 05 36 00-1380 EA 30" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,163.69	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.37	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	58.18	
26 05 36 00-1381 EA 36" Horizontal Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray .....	1,473.32	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-99.97	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	73.67	
<b>26 05 36 00-1382 36" Radius Horizontal Tees</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1383 EA 6" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray .....	929.96	351.79
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.69	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	46.50	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1384 EA 9" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,000.51	388.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-67.68	
For 6" Overall Height Instead Of 4-5/8", Add	50.03	
26 05 36 00-1385 EA 12" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,068.88	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.74	
For 6" Overall Height Instead Of 4-5/8", Add	53.44	
26 05 36 00-1386 EA 18" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,176.00	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-79.14	
For 6" Overall Height Instead Of 4-5/8", Add	58.80	
26 05 36 00-1387 EA 24" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,326.96	526.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.80	
For 6" Overall Height Instead Of 4-5/8", Add	66.35	
26 05 36 00-1388 EA 30" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,515.41	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-104.18	
For 6" Overall Height Instead Of 4-5/8", Add	75.77	
26 05 36 00-1389 EA 36" Horizontal Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,749.27	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-119.03	
For 6" Overall Height Instead Of 4-5/8", Add	87.46	
<b>26 05 36 00-1390 12" Radius Vertical Tees (26 05 36 00-1293)</b>		
26 05 36 00-1391 EA 6" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	776.00	273.34
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.82	
For 6" Overall Height Instead Of 4-5/8", Add	38.80	
26 05 36 00-1392 EA 9" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	803.31	284.11
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.65	
For 6" Overall Height Instead Of 4-5/8", Add	40.17	
26 05 36 00-1393 EA 12" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	824.45	295.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-57.83	
For 6" Overall Height Instead Of 4-5/8", Add	41.22	
26 05 36 00-1394 EA 18" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	873.92	320.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-60.65	
For 6" Overall Height Instead Of 4-5/8", Add	43.70	
26 05 36 00-1395 EA 24" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	926.09	335.33
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-64.66	
For 6" Overall Height Instead Of 4-5/8", Add	46.30	
26 05 36 00-1396 EA 30" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	989.43	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.18	
For 6" Overall Height Instead Of 4-5/8", Add	49.47	
26 05 36 00-1397 EA 36" Vertical Tee, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,068.88	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.74	
For 6" Overall Height Instead Of 4-5/8", Add	53.44	
<b>26 05 36 00-1398 24" Radius Vertical Tees (26 05 36 00-1293)</b>		
26 05 36 00-1399 EA 6" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,034.91	295.50
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.87	
For 6" Overall Height Instead Of 4-5/8", Add	51.75	
26 05 36 00-1400 EA 9" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,062.27	307.65
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-80.59	
For 6" Overall Height Instead Of 4-5/8", Add	53.11	
26 05 36 00-1401 EA 12" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,091.39	320.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-82.40	
For 6" Overall Height Instead Of 4-5/8", Add	54.57	
26 05 36 00-1402 EA 18" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,159.13	351.79
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-86.60	
For 6" Overall Height Instead Of 4-5/8", Add	57.96	
26 05 36 00-1403 EA 24" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,202.23	369.17
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-89.46	
For 6" Overall Height Instead Of 4-5/8", Add	60.11	
26 05 36 00-1404 EA 30" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,284.02	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-94.25	
For 6" Overall Height Instead Of 4-5/8", Add	64.20	
26 05 36 00-1405 EA 36" Vertical Tee, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,423.88	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-103.93	
For 6" Overall Height Instead Of 4-5/8", Add	71.19	
<b>26 05 36 00-1406 36" Radius Vertical Tees (26 05 36 00-1293)</b>		
26 05 36 00-1407 EA 6" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,566.92	320.87
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-129.95	
For 6" Overall Height Instead Of 4-5/8", Add	78.35	
26 05 36 00-1408 EA 9" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,604.43	335.33
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-132.50	
For 6" Overall Height Instead Of 4-5/8", Add	80.22	
26 05 36 00-1409 EA 12" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,645.08	351.79
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-135.20	
For 6" Overall Height Instead Of 4-5/8", Add	82.25	
26 05 36 00-1410 EA 18" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,719.70	388.40
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-139.60	
For 6" Overall Height Instead Of 4-5/8", Add	85.99	
26 05 36 00-1411 EA 24" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,768.74	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-142.72	
For 6" Overall Height Instead Of 4-5/8", Add	88.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1412 EA 30" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,895.00	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-151.04	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	94.75	
26 05 36 00-1413 EA 36" Vertical Tee, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,017.27	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-157.83	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	100.86	
<b>26 05 36 00-1414 12" Radius Horizontal Crosses</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1415 EA 6" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	814.05	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.64	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.70	
26 05 36 00-1416 EA 9" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	867.21	388.40
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-54.35	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	43.36	
26 05 36 00-1417 EA 12" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	905.19	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-56.37	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	45.26	
26 05 36 00-1418 EA 18" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	993.12	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-63.10	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	49.66	
26 05 36 00-1419 EA 24" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,098.22	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-68.83	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	54.91	
26 05 36 00-1420 EA 30" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,205.36	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-76.64	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	60.27	
26 05 36 00-1421 EA 36" Horizontal Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,356.40	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-88.28	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	67.82	
<b>26 05 36 00-1422 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1423 EA 6" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,064.21	409.78
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-72.27	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	53.21	
26 05 36 00-1424 EA 9" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,117.06	434.55
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-75.50	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	55.85	
26 05 36 00-1425 EA 12" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,173.66	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-78.91	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	58.68	
26 05 36 00-1426 EA 18" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,245.54	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.56	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	62.28	
26 05 36 00-1427 EA 24" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,410.18	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-93.66	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	70.51	
26 05 36 00-1428 EA 30" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,521.23	615.28
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.85	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	76.06	
26 05 36 00-1429 EA 36" Horizontal Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,676.78	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-111.78	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	83.84	
<b>26 05 36 00-1430 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1431 EA 6" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,218.09	461.46
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-83.35	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	60.90	
26 05 36 00-1432 EA 9" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,287.63	491.92
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-87.77	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	64.38	
26 05 36 00-1433 EA 12" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,373.73	526.84
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-93.47	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	68.69	
26 05 36 00-1434 EA 18" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,475.66	568.37
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-100.21	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	73.78	
26 05 36 00-1435 EA 24" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,772.66	670.66
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-121.37	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	88.63	
26 05 36 00-1436 EA 30" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,953.52	737.12
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-133.92	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	97.68	
26 05 36 00-1437 EA 36" Horizontal Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,175.29	821.10
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-149.10	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	108.76	
<b>26 05 36 00-1438 12" Radius Vertical Crosses</b> <small>(26 05 36 00-1293)</small>		
26 05 36 00-1439 EA 6" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	814.05	369.17
<i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i>	-50.64	
<i>For 6" Overall Height Instead Of 4-5/8", Add</i>	40.70	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1440 EA 9" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	867.43	388.56
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-54.36	
For 6" Overall Height Instead Of 4-5/8", Add	43.37	
26 05 36 00-1441 EA 12" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	905.07	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-56.36	
For 6" Overall Height Instead Of 4-5/8", Add	45.25	
26 05 36 00-1442 EA 18" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	993.40	434.70
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-63.12	
For 6" Overall Height Instead Of 4-5/8", Add	49.67	
26 05 36 00-1443 EA 24" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,098.22	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-68.83	
For 6" Overall Height Instead Of 4-5/8", Add	54.91	
26 05 36 00-1444 EA 30" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,205.76	526.99
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-76.66	
For 6" Overall Height Instead Of 4-5/8", Add	60.29	
26 05 36 00-1445 EA 36" Vertical Cross, 12" Rung Spacing, 12" Radius, Aluminum Cable Tray.....	1,355.24	567.60
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-88.22	
For 6" Overall Height Instead Of 4-5/8", Add	67.76	
<b>26 05 36 00-1446 24" Radius Vertical Crosses (26 05 36 00-1293)</b>		
26 05 36 00-1447 EA 6" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,064.21	409.78
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-72.27	
For 6" Overall Height Instead Of 4-5/8", Add	53.21	
26 05 36 00-1448 EA 9" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,117.06	434.55
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-75.50	
For 6" Overall Height Instead Of 4-5/8", Add	55.85	
26 05 36 00-1449 EA 12" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,173.66	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-78.91	
For 6" Overall Height Instead Of 4-5/8", Add	58.68	
26 05 36 00-1450 EA 18" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,245.54	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-83.56	
For 6" Overall Height Instead Of 4-5/8", Add	62.28	
26 05 36 00-1451 EA 24" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,410.18	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-93.66	
For 6" Overall Height Instead Of 4-5/8", Add	70.51	
26 05 36 00-1452 EA 30" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,521.23	615.28
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-100.85	
For 6" Overall Height Instead Of 4-5/8", Add	76.06	
26 05 36 00-1453 EA 36" Vertical Cross, 12" Rung Spacing, 24" Radius, Aluminum Cable Tray.....	1,676.78	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-111.78	
For 6" Overall Height Instead Of 4-5/8", Add	83.84	
<b>26 05 36 00-1454 36" Radius Vertical Crosses (26 05 36 00-1293)</b>		
26 05 36 00-1455 EA 6" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,420.13	461.46
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-103.56	
For 6" Overall Height Instead Of 4-5/8", Add	71.01	
26 05 36 00-1456 EA 9" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,498.09	491.92
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-108.81	
For 6" Overall Height Instead Of 4-5/8", Add	74.90	
26 05 36 00-1457 EA 12" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,596.82	526.84
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-115.78	
For 6" Overall Height Instead Of 4-5/8", Add	79.84	
26 05 36 00-1458 EA 18" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	1,713.48	568.37
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-123.99	
For 6" Overall Height Instead Of 4-5/8", Add	85.67	
26 05 36 00-1459 EA 24" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,067.30	670.66
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-150.84	
For 6" Overall Height Instead Of 4-5/8", Add	103.37	
26 05 36 00-1460 EA 30" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,279.73	737.12
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-166.54	
For 6" Overall Height Instead Of 4-5/8", Add	113.99	
26 05 36 00-1461 EA 36" Vertical Cross, 12" Rung Spacing, 36" Radius, Aluminum Cable Tray.....	2,538.33	821.10
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-185.41	
For 6" Overall Height Instead Of 4-5/8", Add	126.92	
<b>26 05 36 00-1462 Dropout Or End Plates And Reducers (26 05 36 00-0744)</b>		
<b>26 05 36 00-1463 Straight Reducers (26 05 36 00-1462)</b>		
26 05 36 00-1464 EA 9" To 6" Reducer, Aluminum Cable Tray.....	306.17	113.52
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-21.15	
For 6" Overall Height Instead Of 4-5/8", Add	15.31	
26 05 36 00-1465 EA 12" To 9" Reducer, Aluminum Cable Tray.....	324.40	122.90
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-22.20	
For 6" Overall Height Instead Of 4-5/8", Add	16.22	
26 05 36 00-1466 EA 18" To 12" Reducer, Aluminum Cable Tray.....	358.62	141.83
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-24.04	
For 6" Overall Height Instead Of 4-5/8", Add	17.93	
26 05 36 00-1467 EA 24" To 18" Reducer, Aluminum Cable Tray.....	398.23	164.13
For 3-5/8" Overall Height Instead Of 4-5/8", Deduct	-26.15	
For 6" Overall Height Instead Of 4-5/8", Add	19.91	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1468 EA 30" To 24" Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	434.97 -28.11 21.75	184.58
26 05 36 00-1469 EA 36" To 30" Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	486.62 -31.09 24.33	210.89
<b>26 05 36 00-1470 Reducers</b> <small>(26 05 36 00-1462)</small>		
26 05 36 00-1471 EA 18" To 6" Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	358.77 -24.04 17.94	141.98
26 05 36 00-1472 EA 24" To 12" Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	398.62 -26.17 19.93	164.28
26 05 36 00-1473 EA 30" To 12" Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	434.72 -28.10 21.74	184.43
26 05 36 00-1474 EA 30" To 18" Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	437.07 -28.35 21.85	184.28
26 05 36 00-1475 EA 36" To 12" Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	484.02 -30.83 24.20	210.89
26 05 36 00-1476 EA 36" To 18" Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	495.86 -31.55 24.79	216.43
26 05 36 00-1477 EA 36" To 24" Reducer, Aluminum Cable Tray..... <i>For 3-5/8" Overall Height Instead Of 4-5/8", Deduct</i> <i>For 6" Overall Height Instead Of 4-5/8", Add</i>	512.58 -32.64 25.63	223.35
<b>26 05 36 00-1478 Dropout Or End Plate</b> <small>(26 05 36 00-1462)</small>		
26 05 36 00-1479 EA 6" Dropout Or End Plate, Aluminum Cable Tray.....	92.37	46.15
26 05 36 00-1480 EA 9" Dropout Or End Plate, Aluminum Cable Tray.....	104.33	52.76
26 05 36 00-1481 EA 12" Dropout Or End Plate, Aluminum Cable Tray.....	112.53	56.76
26 05 36 00-1482 EA 18" Dropout Or End Plate, Aluminum Cable Tray.....	135.86	67.07
26 05 36 00-1483 EA 24" Dropout Or End Plate, Aluminum Cable Tray.....	151.24	73.84
26 05 36 00-1484 EA 30" Dropout Or End Plate, Aluminum Cable Tray.....	170.28	81.98
26 05 36 00-1485 EA 36" Dropout Or End Plate, Aluminum Cable Tray.....	191.11	92.29
<b>26 05 36 00-1486 Solid Bottom Cable Tray</b> <small>(26 05 36 00-0001)</small> Note: 3-5/8" Height.		
<b>26 05 36 00-1487 Solid Bottom Galvanized Steel Straight Tray Sections</b> <small>(26 05 36 00-1486)</small>		
26 05 36 00-1488 LF 6" Solid Bottom Steel Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	35.11 3.25	12.00
26 05 36 00-1489 LF 12" Solid Bottom Steel Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	43.63 4.09	14.77
26 05 36 00-1490 LF 18" Solid Bottom Steel Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	58.79 5.28	21.23
26 05 36 00-1491 LF 24" Solid Bottom Steel Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	67.94 6.13	24.30
26 05 36 00-1492 LF 30" Solid Bottom Steel Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	81.51 7.32	29.38
26 05 36 00-1493 LF 36" Solid Bottom Steel Cable Tray, Straight Section..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	102.63 9.78	33.69
<b>26 05 36 00-1494 Solid Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-1486)</small>		
<b>26 05 36 00-1495 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>		
26 05 36 00-1496 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	370.03 29.85	153.98
26 05 36 00-1497 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	488.19 37.12	216.58
26 05 36 00-1498 EA 18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	600.89 44.57	273.34
26 05 36 00-1499 EA 24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	736.80 54.54	335.80
26 05 36 00-1500 EA 30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	859.58 64.09	389.17
26 05 36 00-1501 EA 36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	964.79 72.30	434.55
<b>26 05 36 00-1502 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>		
26 05 36 00-1503 EA 6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	428.39 37.53	160.28
26 05 36 00-1504 EA 12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	573.33 47.51	230.88

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1505	EA	18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	710.29 57.30	295.50
26 05 36 00-1506	EA	24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	869.49 68.90	369.17
26 05 36 00-1507	EA	30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,020.18 80.74	433.78
26 05 36 00-1508	EA	36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,153.59 91.04	491.92
<b>26 05 36 00-1509</b>		<b>90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>		
26 05 36 00-1510	EA	6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	515.12 49.36	167.51
26 05 36 00-1511	EA	12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	676.41 60.38	246.58
26 05 36 00-1512	EA	18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	860.17 75.47	321.33
26 05 36 00-1513	EA	24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,034.85 86.92	409.78
26 05 36 00-1514	EA	30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,242.11 104.32	491.92
26 05 36 00-1515	EA	36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,419.23 118.40	566.83
<b>26 05 36 00-1516</b>		<b>45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>		
26 05 36 00-1517	EA	6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	341.83 25.60	153.98
26 05 36 00-1518	EA	12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	456.41 32.35	216.58
26 05 36 00-1519	EA	18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	564.04 39.10	273.04
26 05 36 00-1520	EA	24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	691.73 47.86	335.33
26 05 36 00-1521	EA	30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	806.81 56.17	389.17
26 05 36 00-1522	EA	36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	903.29 63.21	433.78
<b>26 05 36 00-1523</b>		<b>45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>		
26 05 36 00-1524	EA	6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	388.29 31.50	160.44
26 05 36 00-1525	EA	12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	525.84 40.42	230.73
26 05 36 00-1526	EA	18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	656.44 49.16	295.80
26 05 36 00-1527	EA	24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	805.94 59.36	369.17
26 05 36 00-1528	EA	30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	947.20 69.66	434.55
26 05 36 00-1529	EA	36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,070.18 78.53	491.92
<b>26 05 36 00-1530</b>		<b>45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1494)</small>		
26 05 36 00-1531	EA	6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	456.51 40.53	167.66
26 05 36 00-1532	EA	12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	571.80 48.51	223.50
26 05 36 00-1533	EA	18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	779.02 63.29	321.33
26 05 36 00-1534	EA	24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	948.12 73.79	410.55
26 05 36 00-1535	EA	30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,136.57 88.49	491.92
26 05 36 00-1536	EA	36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,302.95 100.73	568.37
<b>26 05 36 00-1537</b>		<b>90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1494)</small>		
26 05 36 00-1538	EA	6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	394.32 33.56	153.52
26 05 36 00-1539	EA	12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	506.34 39.84	216.58
26 05 36 00-1540	EA	18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	603.16 44.91	273.34
26 05 36 00-1541	EA	24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	732.26 53.86	335.80
26 05 36 00-1542	EA	30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	832.34 60.00	389.17
26 05 36 00-1543	EA	36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	913.50 64.74	433.78



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-1544    90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1494)</small>						
	EA			6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....	462.44	160.28
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	42.64	
	EA			12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....	598.30	230.88
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	51.25	
	EA			18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....	723.91	295.50
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	59.35	
	EA			24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....	867.22	369.17
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	68.56	
	EA			30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....	988.40	433.78
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	75.98	
	EA			36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,110.47	491.92
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	84.58	
<b>26 05 36 00-1551    90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-1494)</small>						
	EA			6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....	544.63	167.51
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	53.79	
	EA			12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....	670.69	223.96
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	63.27	
	EA			18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....	860.17	321.33
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	75.47	
	EA			24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,039.39	409.78
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	87.60	
	EA			30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,208.07	491.92
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	99.22	
	EA			36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,367.02	566.83
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	110.57	
<b>26 05 36 00-1558    12" Radius Horizontal Tees</b> <small>(26 05 36 00-1494)</small>						
	EA			6" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	651.27	295.50
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	48.45	
	EA			12" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	786.80	368.55
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	56.59	
	EA			18" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	928.48	434.55
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	66.85	
	EA			24" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,109.24	527.91
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	78.39	
	EA			30" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,208.19	568.37
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	86.51	
	EA			36" Horizontal Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,417.50	670.66
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	100.84	
<b>26 05 36 00-1565    24" Radius Horizontal Tees</b> <small>(26 05 36 00-1494)</small>						
	EA			6" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	782.24	320.87
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	63.85	
	EA			12" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	971.30	409.78
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	77.39	
	EA			18" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,139.98	491.92
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	89.00	
	EA			24" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,459.00	615.28
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	116.30	
	EA			30" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,590.00	670.66
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	126.71	
	EA			36" Horizontal Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,879.21	821.10
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	145.03	
<b>26 05 36 00-1572    36" Radius Horizontal Tees</b> <small>(26 05 36 00-1494)</small>						
	EA			6" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	974.34	351.79
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	87.53	
	EA			12" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,202.63	461.46
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	103.48	
	EA			18" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,419.28	568.37
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	118.18	
	EA			24" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,723.91	670.66
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	146.80	
	EA			30" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,890.77	739.57
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	160.36	
	EA			36" Horizontal Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	2,219.14	922.93
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	179.05	
<b>26 05 36 00-1579    12" Radius Vertical Tees</b> <small>(26 05 36 00-1494)</small>						
	EA			6" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	753.41	295.50
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	63.77	
	EA			12" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	887.65	369.17
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	71.62	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1582 EA 18" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	959.95	409.78
For 4-5/8" Overall Height Instead Of 3-5/8", Add	75.69	
26 05 36 00-1583 EA 24" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,026.99	433.78
For 4-5/8" Overall Height Instead Of 3-5/8", Add	81.76	
26 05 36 00-1584 EA 30" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,144.52	491.92
For 4-5/8" Overall Height Instead Of 3-5/8", Add	89.68	
26 05 36 00-1585 EA 36" Vertical Tee, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,283.09	568.37
For 4-5/8" Overall Height Instead Of 3-5/8", Add	97.75	
<b>26 05 36 00-1586 24" Radius Vertical Tees (26 05 36 00-1494)</b>		
26 05 36 00-1587 EA 6" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	920.70	320.87
For 4-5/8" Overall Height Instead Of 3-5/8", Add	84.62	
26 05 36 00-1588 EA 12" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,087.06	409.78
For 4-5/8" Overall Height Instead Of 3-5/8", Add	94.76	
26 05 36 00-1589 EA 18" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,193.55	461.46
For 4-5/8" Overall Height Instead Of 3-5/8", Add	102.12	
26 05 36 00-1590 EA 24" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,264.81	491.92
For 4-5/8" Overall Height Instead Of 3-5/8", Add	107.73	
26 05 36 00-1591 EA 30" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,435.17	568.37
For 4-5/8" Overall Height Instead Of 3-5/8", Add	120.56	
26 05 36 00-1592 EA 36" Vertical Tee, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,628.58	670.66
For 4-5/8" Overall Height Instead Of 3-5/8", Add	132.50	
<b>26 05 36 00-1593 36" Radius Vertical Tees (26 05 36 00-1494)</b>		
26 05 36 00-1594 EA 6" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,186.81	351.17
For 4-5/8" Overall Height Instead Of 3-5/8", Add	119.49	
26 05 36 00-1595 EA 12" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,381.94	461.46
For 4-5/8" Overall Height Instead Of 3-5/8", Add	130.38	
26 05 36 00-1596 EA 18" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,536.21	526.84
For 4-5/8" Overall Height Instead Of 3-5/8", Add	142.63	
26 05 36 00-1597 EA 24" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,628.10	568.37
For 4-5/8" Overall Height Instead Of 3-5/8", Add	149.50	
26 05 36 00-1598 EA 30" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,912.30	670.66
For 4-5/8" Overall Height Instead Of 3-5/8", Add	175.06	
26 05 36 00-1599 EA 36" Vertical Tee, Solid Bottom, 36" Radius, Steel Cable Tray .....	2,068.41	737.12
For 4-5/8" Overall Height Instead Of 3-5/8", Add	187.40	
<b>26 05 36 00-1600 12" Radius Horizontal Crosses (26 05 36 00-1494)</b>		
26 05 36 00-1601 EA 6" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....	805.94	369.17
For 4-5/8" Overall Height Instead Of 3-5/8", Add	59.36	
26 05 36 00-1602 EA 12" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....	930.75	434.55
For 4-5/8" Overall Height Instead Of 3-5/8", Add	67.19	
26 05 36 00-1603 EA 18" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,120.84	526.84
For 4-5/8" Overall Height Instead Of 3-5/8", Add	80.33	
26 05 36 00-1604 EA 24" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,297.85	615.28
For 4-5/8" Overall Height Instead Of 3-5/8", Add	92.13	
26 05 36 00-1605 EA 30" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,532.75	737.12
For 4-5/8" Overall Height Instead Of 3-5/8", Add	107.05	
26 05 36 00-1606 EA 36" Horizontal Cross, Solid Bottom, 12" Radius, Steel Cable Tray .....	1,702.17	821.10
For 4-5/8" Overall Height Instead Of 3-5/8", Add	118.47	
<b>26 05 36 00-1607 24" Radius Horizontal Crosses (26 05 36 00-1494)</b>		
26 05 36 00-1608 EA 6" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,031.53	410.55
For 4-5/8" Overall Height Instead Of 3-5/8", Add	86.30	
26 05 36 00-1609 EA 12" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,208.07	491.92
For 4-5/8" Overall Height Instead Of 3-5/8", Add	99.22	
26 05 36 00-1610 EA 18" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,459.00	615.28
For 4-5/8" Overall Height Instead Of 3-5/8", Add	116.30	
26 05 36 00-1611 EA 24" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,788.63	739.57
For 4-5/8" Overall Height Instead Of 3-5/8", Add	145.04	
26 05 36 00-1612 EA 30" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....	1,970.01	821.10
For 4-5/8" Overall Height Instead Of 3-5/8", Add	158.65	
26 05 36 00-1613 EA 36" Horizontal Cross, Solid Bottom, 24" Radius, Steel Cable Tray .....	2,173.74	922.93
For 4-5/8" Overall Height Instead Of 3-5/8", Add	172.24	
<b>26 05 36 00-1614 36" Radius Horizontal Crosses (26 05 36 00-1494)</b>		
26 05 36 00-1615 EA 6" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,336.55	461.46
For 4-5/8" Overall Height Instead Of 3-5/8", Add	123.57	
26 05 36 00-1616 EA 12" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,571.35	568.37
For 4-5/8" Overall Height Instead Of 3-5/8", Add	140.99	
26 05 36 00-1617 EA 18" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....	1,913.47	739.57
For 4-5/8" Overall Height Instead Of 3-5/8", Add	163.77	
26 05 36 00-1618 EA 24" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....	2,174.28	821.10
For 4-5/8" Overall Height Instead Of 3-5/8", Add	189.29	
26 05 36 00-1619 EA 30" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....	2,412.07	922.93
For 4-5/8" Overall Height Instead Of 3-5/8", Add	207.99	
26 05 36 00-1620 EA 36" Horizontal Cross, Solid Bottom, 36" Radius, Steel Cable Tray .....	2,686.55	1,053.53
For 4-5/8" Overall Height Instead Of 3-5/8", Add	227.39	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-1621 Straight Reducers</b> <small>(26 05 36 00-1494)</small>						
	26 05 36 00-1622	EA		12" To 6" Reducer, Solid Bottom, Steel Cable Tray.....	316.32	123.05
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	26.94	
	26 05 36 00-1623	EA		18" To 12" Reducer, Solid Bottom, Steel Cable Tray.....	345.28	139.05
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	28.61	
	26 05 36 00-1624	EA		24" To 18" Reducer, Solid Bottom, Steel Cable Tray.....	385.09	160.28
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	31.06	
	26 05 36 00-1625	EA		30" To 24" Reducer, Solid Bottom, Steel Cable Tray.....	434.76	184.58
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	34.45	
	26 05 36 00-1626	EA		36" To 30" Reducer, Solid Bottom, Steel Cable Tray.....	472.87	204.74
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	36.81	
<b>26 05 36 00-1627 Reducers</b> <small>(26 05 36 00-1494)</small>						
	26 05 36 00-1628	EA		18" To 6" Reducer, Solid Bottom, Steel Cable Tray.....	345.42	139.21
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	28.62	
	26 05 36 00-1629	EA		24" To 12" Reducer, Solid Bottom, Steel Cable Tray.....	383.37	160.59
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	30.74	
	26 05 36 00-1630	EA		30" To 12" Reducer, Solid Bottom, Steel Cable Tray.....	429.97	184.43
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.76	
	26 05 36 00-1631	EA		30" To 18" Reducer, Solid Bottom, Steel Cable Tray.....	432.00	184.28
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	34.08	
	26 05 36 00-1632	EA		36" To 12" Reducer, Solid Bottom, Steel Cable Tray.....	470.60	204.74
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	36.47	
	26 05 36 00-1633	EA		36" To 18" Reducer, Solid Bottom, Steel Cable Tray.....	472.87	204.74
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	36.81	
	26 05 36 00-1634	EA		36" To 24" Reducer, Solid Bottom, Steel Cable Tray.....	475.75	205.05
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	37.18	
<b>26 05 36 00-1635 Dropout Or End Plate</b> <small>(26 05 36 00-1494)</small>						
	26 05 36 00-1636	EA		6" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....	100.06	46.15
	26 05 36 00-1637	EA		12" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....	122.67	56.30
	26 05 36 00-1638	EA		18" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....	142.23	66.76
	26 05 36 00-1639	EA		24" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....	159.48	73.84
	26 05 36 00-1640	EA		30" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....	177.47	81.98
	26 05 36 00-1641	EA		36" Dropout Or End Plate, Solid Bottom, Steel Cable Tray .....	197.51	92.29
<b>26 05 36 00-1642 Solid Bottom Aluminum Straight Cable Tray Sections</b> <small>(26 05 36 00-1486)</small>						
	26 05 36 00-1643	LF		6" Solid Bottom Aluminum Cable Tray, Straight Section.....	30.71	9.69
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2.99	
	26 05 36 00-1644	LF		12" Solid Bottom Aluminum Cable Tray, Straight Section.....	37.97	11.38
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	3.81	
	26 05 36 00-1645	LF		18" Solid Bottom Aluminum Cable Tray, Straight Section.....	48.67	14.77
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	4.83	
	26 05 36 00-1646	LF		24" Solid Bottom Aluminum Cable Tray, Straight Section.....	57.29	16.31
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	5.89	
	26 05 36 00-1647	LF		30" Solid Bottom Aluminum Cable Tray, Straight Section.....	70.72	21.08
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	7.10	
	26 05 36 00-1648	LF		36" Solid Bottom Steel Aluminum Tray, Straight Section.....	83.29	23.07
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	8.64	
<b>26 05 36 00-1649 Solid Bottom Aluminum Cable Tray Fittings</b> <small>(26 05 36 00-1486)</small>						
<b>26 05 36 00-1650 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>						
	26 05 36 00-1651	EA		6" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	373.43	153.98
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	30.36	
	26 05 36 00-1652	EA		12" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....	454.66	193.82
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	35.88	
	26 05 36 00-1653	EA		18" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....	522.49	217.04
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	42.20	
	26 05 36 00-1654	EA		24" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....	609.39	254.88
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	48.92	
	26 05 36 00-1655	EA		30" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....	717.68	295.80
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	58.35	
	26 05 36 00-1656	EA		36" Horizontal 90 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray.....	811.81	335.80
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	65.80	
<b>26 05 36 00-1657 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>						
	26 05 36 00-1658	EA		6" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....	433.45	160.28
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	38.29	
	26 05 36 00-1659	EA		12" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....	539.39	205.35
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	46.70	
	26 05 36 00-1660	EA		18" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....	609.21	230.73
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	52.93	
	26 05 36 00-1661	EA		24" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray.....	733.25	273.34
				<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	64.42	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1662	EA		30" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....	851.91	320.41
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	74.38	
26 05 36 00-1663	EA		36" Horizontal 90 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....	980.58	369.17
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	85.56	
<b>26 05 36 00-1664</b>			<b>90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>		
26 05 36 00-1665	EA		6" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	525.64	167.51
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	50.94	
26 05 36 00-1666	EA		12" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	658.33	217.50
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	62.51	
26 05 36 00-1667	EA		18" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	761.53	246.58
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	73.14	
26 05 36 00-1668	EA		24" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	868.01	295.03
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	81.03	
26 05 36 00-1669	EA		30" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	1,011.78	351.79
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	93.15	
26 05 36 00-1670	EA		36" Horizontal 90 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	1,180.46	409.16
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	108.89	
<b>26 05 36 00-1671</b>			<b>45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>		
26 05 36 00-1672	EA		6" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	347.89	153.98
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	26.51	
26 05 36 00-1673	EA		12" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	425.73	193.82
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	31.54	
26 05 36 00-1674	EA		18" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	486.79	216.89
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	36.88	
26 05 36 00-1675	EA		24" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	567.87	254.42
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	42.78	
26 05 36 00-1676	EA		30" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	668.25	295.80
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	50.94	
26 05 36 00-1677	EA		36" Horizontal 45 Degree Elbow, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	754.73	334.87
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	57.40	
<b>26 05 36 00-1678</b>			<b>45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>		
26 05 36 00-1679	EA		6" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....	397.07	160.44
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	32.82	
26 05 36 00-1680	EA		12" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....	495.69	205.05
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	40.17	
26 05 36 00-1681	EA		18" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....	560.55	231.19
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	45.55	
26 05 36 00-1682	EA		24" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....	672.18	273.34
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	55.26	
26 05 36 00-1683	EA		30" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....	783.48	321.33
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	63.96	
26 05 36 00-1684	EA		36" Horizontal 45 Degree Elbow, Solid Bottom, 24" Radius, Aluminum Cable Tray .....	900.21	369.17
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	73.50	
<b>26 05 36 00-1685</b>			<b>45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1649)</small>		
26 05 36 00-1686	EA		6" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	471.80	167.66
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	42.82	
26 05 36 00-1687	EA		12" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	592.55	217.04
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	52.71	
26 05 36 00-1688	EA		18" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	684.38	246.58
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	61.57	
26 05 36 00-1689	EA		24" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	786.50	295.80
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	68.67	
26 05 36 00-1690	EA		30" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	918.15	351.79
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	79.10	
26 05 36 00-1691	EA		36" Horizontal 45 Degree Elbow, Solid Bottom, 36" Radius, Aluminum Cable Tray .....	1,073.19	410.55
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	92.55	
<b>26 05 36 00-1692</b>			<b>90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1649)</small>		
26 05 36 00-1693	EA		6" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	394.67	153.52
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.61	
26 05 36 00-1694	EA		12" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	467.44	193.82
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	37.80	
26 05 36 00-1695	EA		18" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	524.32	217.04
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	42.47	
26 05 36 00-1696	EA		24" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	596.61	254.88
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	47.00	
26 05 36 00-1697	EA		30" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	675.67	295.80
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	52.05	
26 05 36 00-1698	EA		36" Vertical Riser 90 Degree, Solid Bottom, 12" Radius, Aluminum Cable Tray .....	746.26	334.87
			<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	56.13	
<b>26 05 36 00-1699</b>			<b>90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1649)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1700 EA 6" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	464.50 42.95	160.28
26 05 36 00-1701 EA 12" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	555.83 49.16	205.35
26 05 36 00-1702 EA 18" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	614.69 53.75	230.73
26 05 36 00-1703 EA 24" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	705.86 60.32	273.34
26 05 36 00-1704 EA 30" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	798.94 66.43	320.41
26 05 36 00-1705 EA 36" Vertical Riser 90 Degree, Solid Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	907.52 74.60	369.17
 <b>26 05 36 00-1706 90 Degree, 36" Radius Vertical Risers (26 05 36 00-1649)</b>		
26 05 36 00-1707 EA 6" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	538.43 52.86	167.51
26 05 36 00-1708 EA 12" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	654.68 61.96	217.50
26 05 36 00-1709 EA 18" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	728.66 68.21	246.58
26 05 36 00-1710 EA 24" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	822.35 74.18	295.03
26 05 36 00-1711 EA 30" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	951.51 84.11	351.79
26 05 36 00-1712 EA 36" Vertical Riser 90 Degree, Solid Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,061.74 91.08	409.16
 <b>26 05 36 00-1713 12" Radius Horizontal Tees (26 05 36 00-1649)</b>		
26 05 36 00-1714 EA 6" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	673.21 51.74	295.50
26 05 36 00-1715 EA 12" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	777.31 60.78	334.87
26 05 36 00-1716 EA 18" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	861.85 67.75	369.17
26 05 36 00-1717 EA 24" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	960.06 75.58	410.55
26 05 36 00-1718 EA 30" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,137.75 88.67	491.92
26 05 36 00-1719 EA 36" Horizontal Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,390.78 106.07	615.28
 <b>26 05 36 00-1720 24" Radius Horizontal Tees (26 05 36 00-1649)</b>		
26 05 36 00-1721 EA 6" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	832.56 71.40	320.87
26 05 36 00-1722 EA 12" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	951.35 81.17	369.17
26 05 36 00-1723 EA 18" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,062.95 91.14	409.78
26 05 36 00-1724 EA 24" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,285.69 110.86	491.92
26 05 36 00-1725 EA 30" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,555.16 130.73	615.28
26 05 36 00-1726 EA 36" Horizontal Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,714.76 145.10	672.66
 <b>26 05 36 00-1727 36" Radius Horizontal Tees (26 05 36 00-1649)</b>		
26 05 36 00-1728 EA 6" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,070.23 101.91	351.79
26 05 36 00-1729 EA 12" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,212.72 113.60	409.78
26 05 36 00-1730 EA 18" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,380.98 130.24	461.46
26 05 36 00-1731 EA 24" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,657.18 154.09	566.83
26 05 36 00-1732 EA 30" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,017.93 179.44	739.57
26 05 36 00-1733 EA 36" Horizontal Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,245.23 199.93	821.10
 <b>26 05 36 00-1734 12" Radius Vertical Tees (26 05 36 00-1649)</b>		
26 05 36 00-1735 EA 6" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	749.92 63.25	295.50
26 05 36 00-1736 EA 12" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	821.96 67.40	335.33
26 05 36 00-1737 EA 18" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	859.29 70.36	351.17
26 05 36 00-1738 EA 24" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	906.54 74.55	368.55

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1739	EA		30" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,000.85 81.82	409.78
26 05 36 00-1740	EA		36" Vertical Tee, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,156.01 91.41	491.92
<b>26 05 36 00-1741</b>			<b>24" Radius Vertical Tees</b> (26 05 36 00-1649)		
26 05 36 00-1742	EA		6" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	914.75 83.73	320.87
26 05 36 00-1743	EA		12" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,017.11 91.04	369.17
26 05 36 00-1744	EA		18" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,076.62 96.75	388.40
26 05 36 00-1745	EA		24" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,148.79 104.01	409.78
26 05 36 00-1746	EA		30" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,280.52 115.17	461.46
26 05 36 00-1747	EA		36" Vertical Tee, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,483.66 128.06	566.83
<b>26 05 36 00-1748</b>			<b>36" Radius Vertical Tees</b> (26 05 36 00-1649)		
26 05 36 00-1749	EA		6" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,178.93 118.31	351.17
26 05 36 00-1750	EA		12" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,295.66 126.88	404.86
26 05 36 00-1751	EA		18" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,380.37 134.77	433.78
26 05 36 00-1752	EA		24" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,444.91 139.83	461.46
26 05 36 00-1753	EA		30" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,608.57 153.49	526.84
26 05 36 00-1754	EA		36" Vertical Tee, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,198.26 67.95	670.66
<b>26 05 36 00-1755</b>			<b>12" Radius Horizontal Crosses</b> (26 05 36 00-1649)		
26 05 36 00-1756	EA		6" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	789.09 62.47	335.33
26 05 36 00-1757	EA		12" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	874.64 69.67	369.17
26 05 36 00-1758	EA		18" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,018.73 80.53	433.78
26 05 36 00-1759	EA		24" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,214.05 94.31	526.84
26 05 36 00-1760	EA		30" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,324.76 104.23	566.83
26 05 36 00-1761	EA		36" Horizontal Cross, Solid Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,541.24 119.07	672.66
<b>26 05 36 00-1762</b>			<b>24" Radius Horizontal Crosses</b> (26 05 36 00-1649)		
26 05 36 00-1763	EA		6" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,018.11 91.09	369.78
26 05 36 00-1764	EA		12" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,148.79 104.01	409.78
26 05 36 00-1765	EA		18" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,325.88 116.89	491.92
26 05 36 00-1766	EA		24" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,640.09 143.19	616.98
26 05 36 00-1767	EA		30" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,796.95 157.43	672.66
26 05 36 00-1768	EA		36" Horizontal Cross, Solid Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,071.71 173.90	821.10
<b>26 05 36 00-1769</b>			<b>36" Radius Horizontal Crosses</b> (26 05 36 00-1649)		
26 05 36 00-1770	EA		6" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,367.97 136.89	409.78
26 05 36 00-1771	EA		12" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,508.83 149.41	461.46
26 05 36 00-1772	EA		18" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	1,769.09 170.65	568.37
26 05 36 00-1773	EA		24" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,127.52 195.87	739.57
26 05 36 00-1774	EA		30" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,336.55 213.63	821.10
26 05 36 00-1775	EA		36" Horizontal Cross, Solid Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	2,670.63 246.77	922.93
<b>26 05 36 00-1776</b>			<b>Straight Reducers</b> (26 05 36 00-1649)		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1777 EA 12" To 6" Reducer, Solid Bottom, Aluminum Cable Tray.....	289.16	105.52
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	25.78	
26 05 36 00-1778 EA 18" To 12" Reducer, Solid Bottom, Aluminum Cable Tray.....	321.66	122.90
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	27.77	
26 05 36 00-1779 EA 24" To 18" Reducer, Solid Bottom, Aluminum Cable Tray.....	355.99	139.05
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	30.22	
26 05 36 00-1780 EA 30" To 24" Reducer, Solid Bottom, Aluminum Cable Tray.....	402.59	160.44
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.65	
26 05 36 00-1781 EA 36" To 30" Reducer, Solid Bottom, Aluminum Cable Tray.....	449.63	184.28
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	36.73	
<b>26 05 36 00-1782 Reducers</b> <small>(26 05 36 00-1649)</small>		
26 05 36 00-1783 EA 18" To 6" Reducer, Solid Bottom, Aluminum Cable Tray.....	319.95	122.90
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	27.50	
26 05 36 00-1784 EA 24" To 12" Reducer, Solid Bottom, Aluminum Cable Tray.....	354.59	139.36
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	29.97	
26 05 36 00-1785 EA 30" To 12" Reducer, Solid Bottom, Aluminum Cable Tray.....	398.75	160.28
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.09	
26 05 36 00-1786 EA 30" To 18" Reducer, Solid Bottom, Aluminum Cable Tray.....	400.39	160.28
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	33.35	
26 05 36 00-1787 EA 36" To 12" Reducer, Solid Bottom, Aluminum Cable Tray.....	449.63	184.28
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	36.73	
26 05 36 00-1788 EA 36" To 18" Reducer, Solid Bottom, Aluminum Cable Tray.....	451.45	184.28
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	37.00	
26 05 36 00-1789 EA 36" To 24" Reducer, Solid Bottom, Aluminum Cable Tray.....	455.59	184.58
<i>For 4-5/8" Overall Height Instead Of 3-5/8", Add</i>	37.57	
<b>26 05 36 00-1790 Dropout Or End Plate</b> <small>(26 05 36 00-1649)</small>		
26 05 36 00-1791 EA 6" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	100.01	46.15
26 05 36 00-1792 EA 12" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	119.96	56.30
26 05 36 00-1793 EA 18" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	142.59	66.76
26 05 36 00-1794 EA 24" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	157.48	73.84
26 05 36 00-1795 EA 30" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	176.79	81.98
26 05 36 00-1796 EA 36" Dropout Or End Plate, Solid Bottom, Aluminum Cable Tray.....	200.40	92.29
<b>26 05 36 00-1797 Vented Bottom Cable Tray</b> <small>(26 05 36 00-0001)</small>		
Note: 6" Height.		
<b>26 05 36 00-1798 Vented Bottom Galvanized Steel Cable Tray</b> <small>(26 05 36 00-1797)</small>		
26 05 36 00-1799 LF 6" Vented Bottom Steel Cable Tray, Straight Section.....	46.88	16.15
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-3.34	
26 05 36 00-1800 LF 12" Vented Bottom Steel Cable Tray, Straight Section.....	55.00	18.46
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-3.97	
26 05 36 00-1801 LF 18" Vented Bottom Steel Cable Tray, Straight Section.....	64.64	21.23
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-4.69	
26 05 36 00-1802 LF 24" Vented Bottom Steel Cable Tray, Straight Section.....	74.17	24.30
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-5.39	
26 05 36 00-1803 LF 30" Vented Bottom Steel Cable Tray, Straight Section.....	97.19	29.38
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-7.27	
26 05 36 00-1804 LF 36" Vented Bottom Steel Cable Tray, Straight Section.....	115.52	36.91
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-8.47	
<b>26 05 36 00-1805 Vented Bottom Galvanized Steel Cable Tray Fittings</b> <small>(26 05 36 00-1797)</small>		
<b>26 05 36 00-1806 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>		
26 05 36 00-1807 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	446.62	194.43
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-28.46	
26 05 36 00-1808 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	584.05	263.04
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-36.48	
26 05 36 00-1809 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	726.29	335.33
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-44.68	
26 05 36 00-1810 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	890.57	410.55
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-54.84	
26 05 36 00-1811 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,004.46	462.39
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-61.91	
26 05 36 00-1812 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray.....	1,150.49	527.91
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-71.05	
<b>26 05 36 00-1813 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>		
26 05 36 00-1814 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	522.63	204.89
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-35.19	
26 05 36 00-1815 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	682.20	284.11
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-44.54	
26 05 36 00-1816 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	867.44	369.17
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-55.98	
26 05 36 00-1817 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray.....	1,053.36	461.46
<i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	-66.88	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1818	EA		30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,122.35 -72.51	476.69
26 05 36 00-1819	EA		36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,406.01 -89.33	615.28
<b>26 05 36 00-1820</b>			<b>90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>		
26 05 36 00-1821	EA		6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	631.58 -45.10	216.58
26 05 36 00-1822	EA		12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	822.90 -56.62	308.11
26 05 36 00-1823	EA		18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,055.62 -71.35	410.55
26 05 36 00-1824	EA		24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,269.97 -83.10	526.84
26 05 36 00-1825	EA		30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,465.61 -95.29	615.28
26 05 36 00-1826	EA		36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,719.17 -110.49	737.12
<b>26 05 36 00-1827</b>			<b>45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>		
26 05 36 00-1828	EA		6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	419.91 -25.78	194.58
26 05 36 00-1829	EA		12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	552.02 -33.28	263.04
26 05 36 00-1830	EA		18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	688.66 -40.96	334.87
26 05 36 00-1831	EA		24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	843.96 -50.24	409.78
26 05 36 00-1832	EA		30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	953.02 -56.77	462.39
26 05 36 00-1833	EA		36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,088.97 -65.00	526.84
<b>26 05 36 00-1834</b>			<b>45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>		
26 05 36 00-1835	EA		6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	483.09 -31.22	205.05
26 05 36 00-1836	EA		12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	636.30 -39.95	284.11
26 05 36 00-1837	EA		18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	812.96 -50.48	369.78
26 05 36 00-1838	EA		24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	990.83 -60.63	461.46
26 05 36 00-1839	EA		30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,135.68 -69.57	527.91
26 05 36 00-1840	EA		36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,322.30 -80.96	615.28
<b>26 05 36 00-1841</b>			<b>45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-1805)</small>		
26 05 36 00-1842	EA		6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	572.75 -39.19	217.04
26 05 36 00-1843	EA		12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	753.44 -49.74	307.19
26 05 36 00-1844	EA		18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	973.92 -63.18	410.55
26 05 36 00-1845	EA		24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,185.75 -74.58	527.91
26 05 36 00-1846	EA		30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,368.78 -85.60	615.28
26 05 36 00-1847	EA		36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,615.18 -99.89	739.57
<b>26 05 36 00-1848</b>			<b>90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-1805)</small>		
26 05 36 00-1849	EA		6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	481.32 -31.97	193.82
26 05 36 00-1850	EA		12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	614.99 -39.58	263.04
26 05 36 00-1851	EA		18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	737.75 -45.83	335.33
26 05 36 00-1852	EA		24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	888.28 -54.62	410.55
26 05 36 00-1853	EA		30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	979.25 -59.39	462.39
26 05 36 00-1854	EA		36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,098.05 -65.91	526.84
<b>26 05 36 00-1855</b>			<b>90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1805)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1856 EA 6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	568.47 -39.77	204.89
26 05 36 00-1857 EA 12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	714.29 -47.75	284.11
26 05 36 00-1858 EA 18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	881.19 -57.36	369.17
26 05 36 00-1859 EA 24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,044.19 -65.96	461.46
26 05 36 00-1860 EA 30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,187.45 -74.85	526.84
26 05 36 00-1861 EA 36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,348.70 -83.60	615.28
 <b>26 05 36 00-1862 90 Degree, 36" Radius Vertical Risers <small>(26 05 36 00-1805)</small></b>		
26 05 36 00-1863 EA 6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	668.26 -48.77	216.58
26 05 36 00-1864 EA 12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	838.95 -58.22	308.11
26 05 36 00-1865 EA 18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,046.45 -70.43	410.55
26 05 36 00-1866 EA 24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,265.39 -82.64	526.84
26 05 36 00-1867 EA 30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,422.06 -90.93	615.28
26 05 36 00-1868 EA 36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,668.73 -105.44	737.12
 <b>26 05 36 00-1869 12" Radius Horizontal Tees <small>(26 05 36 00-1805)</small></b>		
26 05 36 00-1870 EA 6" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	800.96 -49.33	369.17
26 05 36 00-1871 EA 12" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	973.88 -59.01	460.54
26 05 36 00-1872 EA 18" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,113.81 -67.38	527.91
26 05 36 00-1873 EA 24" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,295.98 -78.32	615.28
26 05 36 00-1874 EA 30" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,427.36 -86.84	670.66
26 05 36 00-1875 EA 36" Horizontal Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,567.87 -95.36	737.12
 <b>26 05 36 00-1876 24" Radius Horizontal Tees <small>(26 05 36 00-1805)</small></b>		
26 05 36 00-1877 EA 6" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	990.22 -64.87	409.78
26 05 36 00-1878 EA 12" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,212.67 -77.37	526.84
26 05 36 00-1879 EA 18" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,399.14 -88.64	615.28
26 05 36 00-1880 EA 24" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,714.58 -110.03	737.12
26 05 36 00-1881 EA 30" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,895.76 -121.15	821.10
26 05 36 00-1882 EA 36" Horizontal Tee, Vented Bottom, 24" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,120.47 -135.14	922.93
 <b>26 05 36 00-1883 36" Radius Horizontal Tees <small>(26 05 36 00-1805)</small></b>		
26 05 36 00-1884 EA 6" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,209.24 -82.47	461.46
26 05 36 00-1885 EA 12" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,527.51 -101.48	615.28
26 05 36 00-1886 EA 18" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,780.42 -116.42	739.57
26 05 36 00-1887 EA 24" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,198.41 -142.93	922.93
26 05 36 00-1888 EA 30" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,463.18 -158.12	1,058.45
26 05 36 00-1889 EA 36" Horizontal Tee, Vented Bottom, 36" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,870.75 -184.80	1,227.34
 <b>26 05 36 00-1890 12" Radius Vertical Tees <small>(26 05 36 00-1805)</small></b>		
26 05 36 00-1891 EA 6" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	924.75 -61.71	369.17
26 05 36 00-1892 EA 12" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,083.16 -69.86	461.46
26 05 36 00-1893 EA 18" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,140.87 -73.09	491.92
26 05 36 00-1894 EA 24" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,217.25 -77.83	526.84

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1895	EA		30" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,307.07 -83.35	568.37
26 05 36 00-1896	EA		36" Vertical Tee, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,484.67 -92.57	670.66
<b>26 05 36 00-1897</b>			<b>24" Radius Vertical Tees</b> (26 05 36 00-1805)		
26 05 36 00-1898	EA		6" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,097.96 -75.64	409.78
26 05 36 00-1899	EA		12" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,313.53 -87.45	526.84
26 05 36 00-1900	EA		18" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,403.35 -92.98	568.37
26 05 36 00-1901	EA		24" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,516.05 -100.33	615.28
26 05 36 00-1902	EA		30" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,633.67 -107.47	670.66
26 05 36 00-1903	EA		36" Vertical Tee, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,927.86 -124.36	821.10
<b>26 05 36 00-1904</b>			<b>36" Radius Vertical Tees</b> (26 05 36 00-1805)		
26 05 36 00-1905	EA		6" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,427.77 -104.40	460.54
26 05 36 00-1906	EA		12" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,701.73 -118.90	615.28
26 05 36 00-1907	EA		18" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,817.06 -125.81	670.66
26 05 36 00-1908	EA		24" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,977.56 -136.13	739.57
26 05 36 00-1909	EA		30" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,228.16 -154.39	821.10
26 05 36 00-1910	EA		36" Vertical Tee, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,627.05 -174.91	1,053.53
<b>26 05 36 00-1911</b>			<b>12" Radius Horizontal Crosses</b> (26 05 36 00-1805)		
26 05 36 00-1912	EA		6" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,007.52 -62.30	461.46
26 05 36 00-1913	EA		12" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,120.69 -68.07	527.91
26 05 36 00-1914	EA		18" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,293.69 -78.10	615.28
26 05 36 00-1915	EA		24" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,510.56 -89.63	737.12
26 05 36 00-1916	EA		30" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,680.02 -99.82	818.18
26 05 36 00-1917	EA		36" Horizontal Cross, Vented Bottom, 12" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,893.53 -112.44	922.93
<b>26 05 36 00-1918</b>			<b>24" Radius Horizontal Crosses</b> (26 05 36 00-1805)		
26 05 36 00-1919	EA		6" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,253.65 -81.37	527.91
26 05 36 00-1920	EA		12" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,417.47 -90.47	615.28
26 05 36 00-1921	EA		18" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,659.56 -104.53	737.12
26 05 36 00-1922	EA		24" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,086.09 -131.70	922.93
26 05 36 00-1923	EA		30" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,361.13 -148.32	1,053.53
26 05 36 00-1924	EA		36" Horizontal Cross, Vented Bottom, 24" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,687.36 -166.46	1,227.34
<b>26 05 36 00-1925</b>			<b>36" Radius Horizontal Crosses</b> (26 05 36 00-1805)		
26 05 36 00-1926	EA		6" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,655.88 -114.31	615.28
26 05 36 00-1927	EA		12" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,895.03 -127.88	739.57
26 05 36 00-1928	EA		18" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,214.46 -144.54	922.93
26 05 36 00-1929	EA		24" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,870.23 -184.20	1,233.80
26 05 36 00-1930	EA		30" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	3,359.11 -212.66	1,478.99
26 05 36 00-1931	EA		36" Horizontal Cross, Vented Bottom, 36" Radius, Steel Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	4,039.22 -250.10	1,845.86
<b>26 05 36 00-1932</b>			<b>Straight Reducers</b> (26 05 36 00-1805)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1933 EA 12" To 6" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	377.72 -24.67	157.20
26 05 36 00-1934 EA 18" To 12" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	413.01 -26.67	175.67
26 05 36 00-1935 EA 24" To 18" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	469.59 -29.90	204.74
26 05 36 00-1936 EA 30" To 24" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	517.51 -32.52	230.73
26 05 36 00-1937 EA 36" To 30" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	565.65 -35.39	254.11
<b>26 05 36 00-1938 Reducers</b> <small>(26 05 36 00-1805)</small>		
26 05 36 00-1939 EA 18" To 6" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	413.01 -26.67	175.67
26 05 36 00-1940 EA 24" To 12" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	467.91 -29.70	205.05
26 05 36 00-1941 EA 30" To 12" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	514.83 -32.27	230.42
26 05 36 00-1942 EA 30" To 18" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	516.75 -32.49	230.27
26 05 36 00-1943 EA 36" To 12" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	563.35 -35.16	254.11
26 05 36 00-1944 EA 36" To 18" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	565.65 -35.39	254.11
26 05 36 00-1945 EA 36" To 24" Reducer, Vented Bottom, Steel Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	568.87 -35.66	254.72
<b>26 05 36 00-1946 Dropout Or End Plate</b> <small>(26 05 36 00-1805)</small>		
26 05 36 00-1947 EA 6" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....	122.22	56.76
26 05 36 00-1948 EA 12" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....	144.72	66.61
26 05 36 00-1949 EA 18" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....	159.56	73.53
26 05 36 00-1950 EA 24" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....	179.28	81.98
26 05 36 00-1951 EA 30" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....	199.26	92.14
26 05 36 00-1952 EA 36" Dropout Or End Plate, Vented Bottom, Steel Cable Tray .....	234.08	110.13
<b>26 05 36 00-1953 Vented Bottom Aluminum Cable Tray</b> <small>(26 05 36 00-1797)</small>		
26 05 36 00-1954 LF 6" Vented Bottom Aluminum Cable Tray, Straight Section ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	40.73 -3.07	12.00
26 05 36 00-1955 LF 9" Vented Bottom Aluminum Cable Tray, Straight Section ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	45.09 -3.41	13.23
26 05 36 00-1956 LF 12" Vented Bottom Aluminum Cable Tray, Straight Section ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	50.46 -3.82	14.77
26 05 36 00-1957 LF 18" Vented Bottom Aluminum Cable Tray, Straight Section ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	58.53 -4.48	16.46
26 05 36 00-1958 LF 24" Vented Bottom Aluminum Cable Tray, Straight Section ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	66.89 -5.17	18.30
26 05 36 00-1959 LF 30" Vented Bottom Aluminum Cable Tray, Straight Section ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	84.15 -6.66	21.08
26 05 36 00-1960 LF 36" Vented Bottom Aluminum Cable Tray, Straight Section ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	94.12 -7.35	24.76
<b>26 05 36 00-1961 Vented Bottom Aluminum Cable Tray Fittings</b> <small>(26 05 36 00-1797)</small>		
<b>26 05 36 00-1962 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-1961)</small>		
26 05 36 00-1963 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	499.80 -33.78	194.43
26 05 36 00-1964 EA 9" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	542.94 -36.70	211.05
26 05 36 00-1965 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	599.89 -40.19	237.65
26 05 36 00-1966 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	675.97 -45.65	263.34
26 05 36 00-1967 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	810.79 -54.30	321.33
26 05 36 00-1968 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	955.18 -64.70	369.78
26 05 36 00-1969 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,053.74 -71.16	410.55
<b>26 05 36 00-1970 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-1961)</small>		
26 05 36 00-1971 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	596.34 -42.56	204.89
26 05 36 00-1972 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	722.58 -51.04	254.72
26 05 36 00-1973 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	817.59 -58.08	284.11
26 05 36 00-1974 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	977.73 -68.51	351.17

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 36 Cable Trays for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-1975 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,130.30 -78.94	409.16
26 05 36 00-1976 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,253.25 -86.87	461.46
<b>26 05 36 00-1977 90 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1961)</b>		
26 05 36 00-1978 EA 6" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	720.37 -53.98	216.58
26 05 36 00-1979 EA 12" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	866.43 -63.83	273.65
26 05 36 00-1980 EA 18" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	979.74 -72.30	308.11
26 05 36 00-1981 EA 24" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,157.03 -83.33	388.40
26 05 36 00-1982 EA 30" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,226.14 -91.25	376.40
26 05 36 00-1983 EA 36" Horizontal 90 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,527.75 -108.88	526.84
<b>26 05 36 00-1984 45 Degree, 12" Radius Horizontal Elbows (26 05 36 00-1961)</b>		
26 05 36 00-1985 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	461.39 -29.93	194.58
26 05 36 00-1986 EA 9" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	501.22 -32.51	211.35
26 05 36 00-1987 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	555.04 -35.70	237.65
26 05 36 00-1988 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	623.32 -40.41	263.04
26 05 36 00-1989 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	749.49 -48.21	320.87
26 05 36 00-1990 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	880.62 -57.25	369.78
26 05 36 00-1991 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	971.23 -62.97	409.78
<b>26 05 36 00-1992 45 Degree, 24" Radius Horizontal Elbows (26 05 36 00-1961)</b>		
26 05 36 00-1993 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	540.58 -36.97	205.05
26 05 36 00-1994 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	656.99 -44.48	254.72
26 05 36 00-1995 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	742.50 -50.54	284.57
26 05 36 00-1996 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	892.29 -59.92	351.79
26 05 36 00-1997 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,034.07 -69.19	410.55
26 05 36 00-1998 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 24" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,146.74 -76.22	461.46
<b>26 05 36 00-1999 45 Degree, 36" Radius Horizontal Elbows (26 05 36 00-1961)</b>		
26 05 36 00-2000 EA 6" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	642.00 -46.11	217.04
26 05 36 00-2001 EA 12" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	775.08 -54.75	273.04
26 05 36 00-2002 EA 18" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	877.15 -62.04	308.11
26 05 36 00-2003 EA 24" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,046.00 -72.18	389.17
26 05 36 00-2004 EA 30" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,191.27 -82.92	434.55
26 05 36 00-2005 EA 36" Horizontal 45 Degree Elbow, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,386.81 -94.68	527.91
<b>26 05 36 00-2006 90 Degree, 12" Radius Vertical Risers (26 05 36 00-1961)</b>		
26 05 36 00-2007 EA 6" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	537.19 -37.56	193.82
26 05 36 00-2008 EA 9" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	577.65 -40.22	210.58
26 05 36 00-2009 EA 12" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	625.37 -42.74	237.65
26 05 36 00-2010 EA 18" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	675.97 -45.65	263.34
26 05 36 00-2011 EA 24" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	798.05 -53.03	321.33
26 05 36 00-2012 EA 30" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	891.48 -58.33	369.78
26 05 36 00-2013 EA 36" Vertical Riser 90 Degree, Vented Bottom, 12" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	960.79 -61.93	409.78



	MINOR		TOTAL DIRECT	DEMOLITION
	CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
<b>26 05 36 00-2014</b>		<b>90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-1961)</small>		
26 05 36 00-2015	EA	6" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	629.47 -45.87	204.89
26 05 36 00-2016	EA	12" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	737.87 -52.56	254.72
26 05 36 00-2017	EA	18" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	815.04 -57.82	284.11
26 05 36 00-2018	EA	24" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	932.76 -63.97	351.79
26 05 36 00-2019	EA	30" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,047.42 -70.59	409.78
26 05 36 00-2020	EA	36" Vertical Riser 90 Degree, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,151.33 -76.68	461.46
<b>26 05 36 00-2021</b>		<b>90 Degree, 36" Radius Vertical Risers</b> <small>(26 05 36 00-1961)</small>		
26 05 36 00-2022	EA	6" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	717.82 -53.73	216.58
26 05 36 00-2023	EA	12" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	838.40 -61.03	273.65
26 05 36 00-2024	EA	18" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	941.52 -68.48	308.11
26 05 36 00-2025	EA	24" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,111.16 -78.75	388.40
26 05 36 00-2026	EA	30" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,233.83 -87.17	434.55
26 05 36 00-2027	EA	36" Vertical Riser 90 Degree, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,402.89 -96.39	526.84
<b>26 05 36 00-2028</b>		<b>12" Radius Horizontal Tees</b> <small>(26 05 36 00-1961)</small>		
26 05 36 00-2029	EA	6" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	882.83 -57.52	369.17
26 05 36 00-2030	EA	9" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	922.60 -59.89	388.40
26 05 36 00-2031	EA	12" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	979.96 -63.90	409.16
26 05 36 00-2032	EA	18" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,117.19 -73.19	462.39
26 05 36 00-2033	EA	24" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,275.49 -83.65	526.84
26 05 36 00-2034	EA	30" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,451.02 -93.83	615.28
26 05 36 00-2035	EA	36" Horizontal Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,602.03 -104.31	670.66
<b>26 05 36 00-2036</b>		<b>24" Radius Horizontal Tees</b> <small>(26 05 36 00-1961)</small>		
26 05 36 00-2037	EA	6" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,090.74 -74.92	409.78
26 05 36 00-2038	EA	12" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,231.33 -84.75	460.54
26 05 36 00-2039	EA	18" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,387.61 -94.86	526.84
26 05 36 00-2040	EA	24" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,659.78 -114.84	613.59
26 05 36 00-2041	EA	30" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,920.54 -130.43	739.57
26 05 36 00-2042	EA	36" Horizontal Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,171.18 -148.69	821.10
<b>26 05 36 00-2043</b>		<b>36" Radius Horizontal Tees</b> <small>(26 05 36 00-1961)</small>		
26 05 36 00-2044	EA	6" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,423.98 -103.94	461.46
26 05 36 00-2045	EA	12" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,629.68 -119.07	526.84
26 05 36 00-2046	EA	18" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,710.08 -128.19	513.92
26 05 36 00-2047	EA	24" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,222.37 -160.81	737.12
26 05 36 00-2048	EA	30" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,601.86 -182.97	926.62
26 05 36 00-2049	EA	36" Horizontal Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,979.05 -210.11	1,053.53
<b>26 05 36 00-2050</b>		<b>12" Radius Vertical Tees</b> <small>(26 05 36 00-1961)</small>		
26 05 36 00-2051	EA	6" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	982.21 -67.46	369.17

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 36 Cable Trays for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2052 EA 9" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,016.88 -69.32	388.40
26 05 36 00-2053 EA 12" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,080.55 -73.90	409.78
26 05 36 00-2054 EA 18" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,124.26 -76.22	434.55
26 05 36 00-2055 EA 24" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,177.82 -79.40	460.54
26 05 36 00-2056 EA 30" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,248.03 -83.81	491.92
26 05 36 00-2057 EA 36" Vertical Tee, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,390.77 -91.83	566.83
<b>26 05 36 00-2058 24" Radius Vertical Tees (26 05 36 00-1961)</b>		
26 05 36 00-2059 EA 6" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,202.86 -86.13	409.78
26 05 36 00-2060 EA 12" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,328.16 -94.44	460.54
26 05 36 00-2061 EA 18" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,418.75 -100.88	491.92
26 05 36 00-2062 EA 24" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,515.01 -107.60	526.84
26 05 36 00-2063 EA 30" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,632.85 -116.04	566.83
26 05 36 00-2064 EA 36" Vertical Tee, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,821.89 -126.13	672.66
<b>26 05 36 00-2065 36" Radius Vertical Tees (26 05 36 00-1961)</b>		
26 05 36 00-2066 EA 6" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,570.23 -118.64	460.54
26 05 36 00-2067 EA 12" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,731.60 -129.26	526.84
26 05 36 00-2068 EA 18" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,823.95 -135.15	566.83
26 05 36 00-2069 EA 24" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,971.03 -145.69	616.98
26 05 36 00-2070 EA 30" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,140.40 -157.98	672.66
26 05 36 00-2071 EA 36" Vertical Tee, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,433.88 -175.20	818.18
<b>26 05 36 00-2072 12" Radius Horizontal Crosses (26 05 36 00-1961)</b>		
26 05 36 00-2073 EA 6" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,016.84 -67.53	409.78
26 05 36 00-2074 EA 9" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,080.94 -71.88	434.55
26 05 36 00-2075 EA 12" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,137.57 -75.23	462.39
26 05 36 00-2076 EA 18" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,262.75 -82.38	526.84
26 05 36 00-2077 EA 24" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,450.84 -93.95	613.59
26 05 36 00-2078 EA 30" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,634.46 -107.71	668.82
26 05 36 00-2079 EA 36" Horizontal Cross, Vented Bottom, 12" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,995.36 -131.11	821.10
<b>26 05 36 00-2080 24" Radius Horizontal Crosses (26 05 36 00-1961)</b>		
26 05 36 00-2081 EA 6" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,369.45 -98.41	462.39
26 05 36 00-2082 EA 12" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,532.85 -109.39	526.84
26 05 36 00-2083 EA 18" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,728.58 -121.72	613.59
26 05 36 00-2084 EA 24" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,044.00 -142.97	737.12
26 05 36 00-2085 EA 30" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,242.77 -156.09	818.18
26 05 36 00-2086 EA 36" Horizontal Cross, Vented Bottom, 24" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,749.72 -187.17	1,053.53
<b>26 05 36 00-2087 36" Radius Horizontal Crosses (26 05 36 00-1961)</b>		
26 05 36 00-2088 EA 6" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	1,859.01 -142.00	526.84
26 05 36 00-2089 EA 12" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,072.95 -155.88	616.98
26 05 36 00-2090 EA 18" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,362.52 -174.82	737.12





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 05 36 00-2091	EA		24" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	2,856.68 -208.45	926.62
	26 05 36 00-2092	EA		30" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	3,190.96 -230.90	1,058.45
	26 05 36 00-2093	EA		36" Horizontal Cross, Vented Bottom, 36" Radius, Aluminum Cable Tray..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	3,701.78 -267.90	1,227.34
<b>26 05 36 00-2094</b>				<b>Straight Reducers</b> <small>(26 05 36 00-1961)</small>		
	26 05 36 00-2095	EA		9" To 6" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	368.29 -26.57	123.05
	26 05 36 00-2096	EA		12" To 9" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	386.76 -27.87	129.68
	26 05 36 00-2097	EA		18" To 12" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	439.67 -31.16	153.67
	26 05 36 00-2098	EA		24" To 18" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	488.65 -34.24	175.51
	26 05 36 00-2099	EA		30" To 24" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	543.13 -37.22	205.05
	26 05 36 00-2100	EA		36" To 30" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	592.74 -40.08	230.27
<b>26 05 36 00-2101</b>				<b>Reducers</b> <small>(26 05 36 00-1961)</small>		
	26 05 36 00-2102	EA		12" To 6" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	386.40 -27.86	129.37
	26 05 36 00-2103	EA		18" To 6" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	439.50 -31.15	153.67
	26 05 36 00-2104	EA		18" To 9" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	439.50 -31.15	153.67
	26 05 36 00-2105	EA		24" To 6" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	488.87 -34.25	175.67
	26 05 36 00-2106	EA		24" To 9" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	488.87 -34.25	175.67
	26 05 36 00-2107	EA		24" To 12" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	489.31 -34.28	175.82
	26 05 36 00-2108	EA		30" To 12" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	547.93 -37.72	204.89
	26 05 36 00-2109	EA		30" To 18" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	542.52 -37.19	204.74
	26 05 36 00-2110	EA		36" To 12" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	592.74 -40.08	230.27
	26 05 36 00-2111	EA		36" To 18" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	592.74 -40.08	230.27
	26 05 36 00-2112	EA		36" To 24" Reducer, Vented Bottom, Aluminum Cable Tray ..... <i>For 4-5/8" Overall Height Instead Of 6", Deduct</i>	593.50 -40.12	230.73
<b>26 05 36 00-2113</b>				<b>Dropout Or End Plate</b> <small>(26 05 36 00-1961)</small>		
	26 05 36 00-2114	EA		6" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....	127.98	56.76
	26 05 36 00-2115	EA		9" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....	139.65	61.99
	26 05 36 00-2116	EA		12" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....	150.41	66.61
	26 05 36 00-2117	EA		18" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....	170.06	73.53
	26 05 36 00-2118	EA		24" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....	194.09	81.98
	26 05 36 00-2119	EA		30" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....	214.80	92.14
	26 05 36 00-2120	EA		36" Dropout Or End Plate, Vented Bottom, Aluminum Cable Tray .....	245.91	105.52
<b>26 05 36 00-2121</b>				<b>Cable Tray Covers And Dividers</b> <small>(26 05 36 00-0001)</small>		
<b>26 05 36 00-2122</b>				<b>Galvanized Steel Covers</b> <small>(26 05 36 00-2121)</small>		
<b>26 05 36 00-2123</b>				<b>Ventilated Straight Sections</b> <small>(26 05 36 00-2122)</small>		
	26 05 36 00-2124	LF		6" Steel Cable Tray Cover, Straight Section .....	11.91	2.76
	26 05 36 00-2125	LF		9" Steel Cable Tray Cover, Straight Section .....	14.32	3.23
	26 05 36 00-2126	LF		12" Steel Cable Tray Cover, Straight Section .....	16.80	3.70
	26 05 36 00-2127	LF		18" Steel Cable Tray Cover, Straight Section .....	22.75	4.92
	26 05 36 00-2128	LF		24" Steel Cable Tray Cover, Straight Section .....	28.98	6.61
	26 05 36 00-2129	LF		30" Steel Cable Tray Cover, Straight Section .....	35.19	8.15
	26 05 36 00-2130	LF		36" Steel Cable Tray Cover, Straight Section .....	178.77	92.45
<b>26 05 36 00-2131</b>				<b>90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small>		
	26 05 36 00-2132	EA		6" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....	70.34	9.85
	26 05 36 00-2133	EA		9" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....	78.82	11.54
	26 05 36 00-2134	EA		12" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....	85.75	13.69
	26 05 36 00-2135	EA		18" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....	116.32	17.54
	26 05 36 00-2136	EA		24" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....	142.71	22.31
	26 05 36 00-2137	EA		30" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....	171.81	24.76
	26 05 36 00-2138	EA		36" Horizontal 90 Degree Elbow, 12" Radius, Steel Cable Tray Cover .....	207.46	29.53

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-2139 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small>		
26 05 36 00-2140 EA 6" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	107.54	10.92
26 05 36 00-2141 EA 9" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	112.92	12.76
26 05 36 00-2142 EA 12" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	127.71	15.39
26 05 36 00-2143 EA 18" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	158.54	19.53
26 05 36 00-2144 EA 24" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	194.66	24.61
26 05 36 00-2145 EA 30" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	249.02	28.30
26 05 36 00-2146 EA 36" Horizontal 90 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	289.81	33.53
<b>26 05 36 00-2147 90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small>		
26 05 36 00-2148 EA 6" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	151.07	12.30
26 05 36 00-2149 EA 9" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	168.11	14.15
26 05 36 00-2150 EA 12" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	182.86	17.54
26 05 36 00-2151 EA 18" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	231.32	20.46
26 05 36 00-2152 EA 24" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	281.14	28.46
26 05 36 00-2153 EA 30" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	330.91	32.15
26 05 36 00-2154 EA 36" Horizontal 90 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	386.95	36.91
<b>26 05 36 00-2155 45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small>		
26 05 36 00-2156 EA 6" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	54.76	9.85
For 60 Degree Bend, Deduct	-14.28	
For 30 Degree Bend, Deduct	-24.35	
26 05 36 00-2157 EA 9" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	65.07	11.54
For 60 Degree Bend, Deduct	-17.05	
For 30 Degree Bend, Deduct	-29.06	
26 05 36 00-2158 EA 12" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	73.14	13.69
For 60 Degree Bend, Deduct	-18.91	
For 30 Degree Bend, Deduct	-32.28	
26 05 36 00-2159 EA 18" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	88.69	16.77
For 60 Degree Bend, Deduct	-22.84	
For 30 Degree Bend, Deduct	-39.00	
26 05 36 00-2160 EA 24" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	103.49	19.38
For 60 Degree Bend, Deduct	-26.69	
For 30 Degree Bend, Deduct	-45.57	
26 05 36 00-2161 EA 30" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	120.97	22.31
For 60 Degree Bend, Deduct	-31.34	
For 30 Degree Bend, Deduct	-53.48	
26 05 36 00-2162 EA 36" Horizontal 45 Degree Elbow, 12" Radius, Steel Cable Tray Cover.....	135.02	24.61
For 60 Degree Bend, Deduct	-35.12	
For 30 Degree Bend, Deduct	-59.90	
<b>26 05 36 00-2163 45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small>		
26 05 36 00-2164 EA 6" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	74.31	10.92
For 60 Degree Bend, Deduct	-20.35	
For 30 Degree Bend, Deduct	-34.52	
26 05 36 00-2165 EA 9" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	84.27	12.76
For 60 Degree Bend, Deduct	-22.93	
For 30 Degree Bend, Deduct	-38.92	
26 05 36 00-2166 EA 12" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	96.76	15.39
For 60 Degree Bend, Deduct	-26.02	
For 30 Degree Bend, Deduct	-44.22	
26 05 36 00-2167 EA 18" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	112.19	18.46
For 60 Degree Bend, Deduct	-29.94	
For 30 Degree Bend, Deduct	-50.92	
26 05 36 00-2168 EA 24" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	129.21	21.08
For 60 Degree Bend, Deduct	-34.54	
For 30 Degree Bend, Deduct	-58.74	
26 05 36 00-2169 EA 30" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	160.32	24.61
For 60 Degree Bend, Deduct	-43.45	
For 30 Degree Bend, Deduct	-73.78	
26 05 36 00-2170 EA 36" Horizontal 45 Degree Elbow, 24" Radius, Steel Cable Tray Cover.....	178.03	28.46
For 60 Degree Bend, Deduct	-47.85	
For 30 Degree Bend, Deduct	-81.34	
<b>26 05 36 00-2171 45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-2122)</small>		
26 05 36 00-2172 EA 6" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	101.83	12.30
For 60 Degree Bend, Deduct	-28.90	
For 30 Degree Bend, Deduct	-48.85	
26 05 36 00-2173 EA 9" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	115.38	14.15
For 60 Degree Bend, Deduct	-32.63	
For 30 Degree Bend, Deduct	-55.17	
26 05 36 00-2174 EA 12" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	130.05	17.54
For 60 Degree Bend, Deduct	-36.20	
For 30 Degree Bend, Deduct	-61.31	
26 05 36 00-2175 EA 18" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover.....	148.25	19.53
For 60 Degree Bend, Deduct	-41.45	
For 30 Degree Bend, Deduct	-70.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2176 EA 24" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	180.72 -50.50 -85.49	23.84
26 05 36 00-2177 EA 30" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	200.96 -55.42 -93.95	28.46
26 05 36 00-2178 EA 36" Horizontal 45 Degree Elbow, 36" Radius, Steel Cable Tray Cover ..... <i>For 60 Degree Bend, Deduct</i> <i>For 30 Degree Bend, Deduct</i>	236.99 -66.41 -112.39	30.76
<b>26 05 36 00-2179 90 Degree, 12" Radius Vertical Risers (26 05 36 00-2122)</b>		
26 05 36 00-2180 EA 6" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....	61.36	9.85
26 05 36 00-2181 EA 9" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....	65.07	11.54
26 05 36 00-2182 EA 12" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....	72.00	13.69
26 05 36 00-2183 EA 18" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....	84.14	16.77
26 05 36 00-2184 EA 24" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....	93.49	21.69
26 05 36 00-2185 EA 30" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....	104.19	24.76
26 05 36 00-2186 EA 36" Vertical Riser 90 Degree, 12" Radius, Steel Cable Tray Cover .....	130.55	29.53
<b>26 05 36 00-2187 90 Degree, 24" Radius Vertical Risers (26 05 36 00-2122)</b>		
26 05 36 00-2188 EA 6" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....	73.16	10.92
26 05 36 00-2189 EA 9" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....	81.98	12.76
26 05 36 00-2190 EA 12" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....	88.74	15.39
26 05 36 00-2191 EA 18" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....	114.43	18.46
26 05 36 00-2192 EA 24" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....	133.68	23.84
26 05 36 00-2193 EA 30" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....	153.92	28.46
26 05 36 00-2194 EA 36" Vertical Riser 90 Degree, 24" Radius, Steel Cable Tray Cover .....	177.49	33.53
<b>26 05 36 00-2195 90 Degree, 36" Radius Vertical Risers (26 05 36 00-2122)</b>		
26 05 36 00-2196 EA 6" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....	84.60	12.30
26 05 36 00-2197 EA 9" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....	105.07	14.15
26 05 36 00-2198 EA 12" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....	120.96	17.54
26 05 36 00-2199 EA 18" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....	148.25	19.53
26 05 36 00-2200 EA 24" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....	173.85	27.23
26 05 36 00-2201 EA 30" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....	207.12	32.15
26 05 36 00-2202 EA 36" Vertical Riser 90 Degree, 36" Radius, Steel Cable Tray Cover .....	242.53	36.91
<b>26 05 36 00-2203 12" Radius Horizontal Tees (26 05 36 00-2122)</b>		
26 05 36 00-2204 EA 6" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....	108.15	16.00
26 05 36 00-2205 EA 9" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....	114.43	18.46
26 05 36 00-2206 EA 12" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....	130.06	21.69
26 05 36 00-2207 EA 18" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....	155.74	24.61
26 05 36 00-2208 EA 24" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....	191.79	28.46
26 05 36 00-2209 EA 30" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....	237.88	40.92
26 05 36 00-2210 EA 36" Horizontal Tee, 12" Radius, Steel Cable Tray Cover .....	285.87	49.07
<b>26 05 36 00-2211 24" Radius Horizontal Tees (26 05 36 00-2122)</b>		
26 05 36 00-2212 EA 6" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....	156.34	16.77
26 05 36 00-2213 EA 9" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....	179.19	19.53
26 05 36 00-2214 EA 12" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....	189.72	23.07
26 05 36 00-2215 EA 18" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....	238.84	26.46
26 05 36 00-2216 EA 24" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....	349.16	30.76
26 05 36 00-2217 EA 30" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....	416.24	46.15
26 05 36 00-2218 EA 36" Horizontal Tee, 24" Radius, Steel Cable Tray Cover .....	468.26	56.76
<b>26 05 36 00-2219 36" Radius Horizontal Tees (26 05 36 00-2122)</b>		
26 05 36 00-2220 EA 6" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....	260.75	17.54
26 05 36 00-2221 EA 9" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....	270.26	20.46
26 05 36 00-2222 EA 12" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....	302.40	24.61
26 05 36 00-2223 EA 18" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....	354.63	28.46
26 05 36 00-2224 EA 24" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....	459.45	33.53
26 05 36 00-2225 EA 30" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....	525.96	52.91
26 05 36 00-2226 EA 36" Horizontal Tee, 36" Radius, Steel Cable Tray Cover .....	608.97	66.92
<b>26 05 36 00-2227 12" Radius Horizontal Crosses (26 05 36 00-2122)</b>		
26 05 36 00-2228 EA 6" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....	157.65	21.69
26 05 36 00-2229 EA 9" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....	166.83	23.07
26 05 36 00-2230 EA 12" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....	184.39	24.61
26 05 36 00-2231 EA 18" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....	217.01	28.46
26 05 36 00-2232 EA 24" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....	274.49	40.92
26 05 36 00-2233 EA 30" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....	317.88	49.07
26 05 36 00-2234 EA 36" Horizontal Cross, 12" Radius, Steel Cable Tray Cover .....	362.91	52.76

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-2235 24" Radius Horizontal Crosses</b> <small>(26 05 36 00-2122)</small>		
26 05 36 00-2236 EA 6" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	270.03	23.07
26 05 36 00-2237 EA 9" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	293.23	24.61
26 05 36 00-2238 EA 12" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	314.49	26.46
26 05 36 00-2239 EA 18" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	374.37	30.76
26 05 36 00-2240 EA 24" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	471.20	46.15
26 05 36 00-2241 EA 30" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	539.20	56.76
26 05 36 00-2242 EA 36" Horizontal Cross, 24" Radius, Steel Cable Tray Cover.....	602.07	61.38
<b>26 05 36 00-2243 36" Radius Horizontal Crosses</b> <small>(26 05 36 00-2122)</small>		
26 05 36 00-2244 EA 6" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	428.48	24.61
26 05 36 00-2245 EA 9" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	445.16	26.46
26 05 36 00-2246 EA 12" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	469.25	28.46
26 05 36 00-2247 EA 18" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	541.97	33.53
26 05 36 00-2248 EA 24" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	707.00	52.76
26 05 36 00-2249 EA 30" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	776.81	67.22
26 05 36 00-2250 EA 36" Horizontal Cross, 36" Radius, Steel Cable Tray Cover.....	833.68	73.84
<b>26 05 36 00-2251 Reducers</b> <small>(26 05 36 00-2122)</small>		
26 05 36 00-2252 EA 9" To 6" Reducer, Steel Cable Tray Covers.....	70.82	11.54
26 05 36 00-2253 EA 12" To 6" Reducer, Steel Cable Tray Covers.....	76.64	13.69
26 05 36 00-2254 EA 12" To 9" Reducer, Steel Cable Tray Covers.....	76.64	13.69
26 05 36 00-2255 EA 18" To 6" Reducer, Steel Cable Tray Covers.....	85.28	16.77
26 05 36 00-2256 EA 18" To 12" Reducer, Steel Cable Tray Covers.....	85.28	16.77
26 05 36 00-2257 EA 24" To 12" Reducer, Steel Cable Tray Covers.....	104.12	18.46
26 05 36 00-2258 EA 24" To 18" Reducer, Steel Cable Tray Covers.....	110.99	18.46
26 05 36 00-2259 EA 30" To 12" Reducer, Steel Cable Tray Covers.....	108.55	21.08
26 05 36 00-2260 EA 30" To 18" Reducer, Steel Cable Tray Covers.....	115.42	21.08
26 05 36 00-2261 EA 30" To 24" Reducer, Steel Cable Tray Covers.....	120.01	21.08
26 05 36 00-2262 EA 36" To 12" Reducer, Steel Cable Tray Covers.....	125.49	23.07
26 05 36 00-2263 EA 36" To 18" Reducer, Steel Cable Tray Covers.....	127.78	23.07
26 05 36 00-2264 EA 36" To 24" Reducer, Steel Cable Tray Covers.....	130.07	23.07
26 05 36 00-2265 EA 36" To 30" Reducer, Steel Cable Tray Covers.....	131.22	23.07
<b>26 05 36 00-2266 Aluminum Covers</b> <small>(26 05 36 00-2121)</small>		
<b>26 05 36 00-2267 Ventilated Straight Sections</b> <small>(26 05 36 00-2266)</small>		
26 05 36 00-2268 LF 6" Aluminum Cable Tray Cover, Straight Section .....	12.30	2.76
26 05 36 00-2269 LF 9" Aluminum Cable Tray Cover, Straight Section .....	14.61	3.23
26 05 36 00-2270 LF 12" Aluminum Cable Tray Cover, Straight Section .....	17.12	3.70
26 05 36 00-2271 LF 18" Aluminum Cable Tray Cover, Straight Section .....	22.78	4.92
26 05 36 00-2272 LF 24" Aluminum Cable Tray Cover, Straight Section .....	29.43	6.61
26 05 36 00-2273 LF 30" Aluminum Cable Tray Cover, Straight Section .....	33.72	8.15
26 05 36 00-2274 LF 36" Aluminum Cable Tray Cover, Straight Section .....	175.46	92.45
<b>26 05 36 00-2275 90 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small>		
26 05 36 00-2276 EA 6" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	66.22	9.85
26 05 36 00-2277 EA 9" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	71.13	11.54
26 05 36 00-2278 EA 12" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	78.95	13.69
26 05 36 00-2279 EA 18" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	102.75	17.54
26 05 36 00-2280 EA 24" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	130.27	22.31
26 05 36 00-2281 EA 30" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	152.54	24.76
26 05 36 00-2282 EA 36" Horizontal 90 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	185.56	29.53
<b>26 05 36 00-2283 90 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small>		
26 05 36 00-2284 EA 6" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	86.27	10.92
26 05 36 00-2285 EA 9" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	105.59	12.76
26 05 36 00-2286 EA 12" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	118.71	15.39
26 05 36 00-2287 EA 18" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	142.77	19.53
26 05 36 00-2288 EA 24" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	177.34	24.61
26 05 36 00-2289 EA 30" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	213.84	28.30
26 05 36 00-2290 EA 36" Horizontal 90 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	261.47	33.53
<b>26 05 36 00-2291 90 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small>		
26 05 36 00-2292 EA 6" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	137.21	12.30
26 05 36 00-2293 EA 9" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	151.31	14.15
26 05 36 00-2294 EA 12" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	174.19	17.54
26 05 36 00-2295 EA 18" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	207.22	20.46
26 05 36 00-2296 EA 24" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	257.13	28.46
26 05 36 00-2297 EA 30" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	295.79	32.15
26 05 36 00-2298 EA 36" Horizontal 90 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	344.78	36.91



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-2299    45 Degree, 12" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small>						
	26 05 36 00-2300	EA		6" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	53.25	9.85
				<i>For 60 Degree Bend, Deduct</i>	-13.78	
				<i>For 30 Degree Bend, Deduct</i>	-23.52	
	26 05 36 00-2301	EA		9" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	57.07	11.54
				<i>For 60 Degree Bend, Deduct</i>	-14.41	
				<i>For 30 Degree Bend, Deduct</i>	-24.66	
	26 05 36 00-2302	EA		12" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	65.10	13.69
				<i>For 60 Degree Bend, Deduct</i>	-16.26	
				<i>For 30 Degree Bend, Deduct</i>	-27.86	
	26 05 36 00-2303	EA		18" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	76.61	16.77
				<i>For 60 Degree Bend, Deduct</i>	-18.86	
				<i>For 30 Degree Bend, Deduct</i>	-32.36	
	26 05 36 00-2304	EA		24" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	86.50	19.38
				<i>For 60 Degree Bend, Deduct</i>	-21.09	
				<i>For 30 Degree Bend, Deduct</i>	-36.22	
	26 05 36 00-2305	EA		30" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	105.43	22.31
				<i>For 60 Degree Bend, Deduct</i>	-26.21	
				<i>For 30 Degree Bend, Deduct</i>	-44.93	
	26 05 36 00-2306	EA		36" Horizontal 45 Degree Elbow, 12" Radius, Aluminum Cable Tray Cover.....	123.22	24.61
				<i>For 60 Degree Bend, Deduct</i>	-31.23	
				<i>For 30 Degree Bend, Deduct</i>	-53.41	
<b>26 05 36 00-2307    45 Degree, 24" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small>						
	26 05 36 00-2308	EA		6" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	60.87	10.92
				<i>For 60 Degree Bend, Deduct</i>	-15.91	
				<i>For 30 Degree Bend, Deduct</i>	-27.13	
	26 05 36 00-2309	EA		9" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	75.30	12.76
				<i>For 60 Degree Bend, Deduct</i>	-19.97	
				<i>For 30 Degree Bend, Deduct</i>	-33.98	
	26 05 36 00-2310	EA		12" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	81.94	15.39
				<i>For 60 Degree Bend, Deduct</i>	-21.13	
				<i>For 30 Degree Bend, Deduct</i>	-36.07	
	26 05 36 00-2311	EA		18" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	98.94	18.46
				<i>For 60 Degree Bend, Deduct</i>	-25.56	
				<i>For 30 Degree Bend, Deduct</i>	-43.63	
	26 05 36 00-2312	EA		24" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	119.58	21.08
				<i>For 60 Degree Bend, Deduct</i>	-31.36	
				<i>For 30 Degree Bend, Deduct</i>	-53.44	
	26 05 36 00-2313	EA		30" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	138.45	24.61
				<i>For 60 Degree Bend, Deduct</i>	-36.23	
				<i>For 30 Degree Bend, Deduct</i>	-61.76	
	26 05 36 00-2314	EA		36" Horizontal 45 Degree Elbow, 24" Radius, Aluminum Cable Tray Cover.....	159.85	28.46
				<i>For 60 Degree Bend, Deduct</i>	-41.86	
				<i>For 30 Degree Bend, Deduct</i>	-71.34	
<b>26 05 36 00-2315    45 Degree, 36" Radius Horizontal Elbows</b> <small>(26 05 36 00-2266)</small>						
	26 05 36 00-2316	EA		6" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	93.99	12.30
				<i>For 60 Degree Bend, Deduct</i>	-26.31	
				<i>For 30 Degree Bend, Deduct</i>	-44.54	
	26 05 36 00-2317	EA		9" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	103.72	14.15
				<i>For 60 Degree Bend, Deduct</i>	-28.78	
				<i>For 30 Degree Bend, Deduct</i>	-48.75	
	26 05 36 00-2318	EA		12" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	113.55	17.54
				<i>For 60 Degree Bend, Deduct</i>	-30.76	
				<i>For 30 Degree Bend, Deduct</i>	-52.24	
	26 05 36 00-2319	EA		18" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	134.15	19.53
				<i>For 60 Degree Bend, Deduct</i>	-36.80	
				<i>For 30 Degree Bend, Deduct</i>	-62.41	
	26 05 36 00-2320	EA		24" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	163.03	23.84
				<i>For 60 Degree Bend, Deduct</i>	-44.66	
				<i>For 30 Degree Bend, Deduct</i>	-75.76	
	26 05 36 00-2321	EA		30" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	187.96	28.46
				<i>For 60 Degree Bend, Deduct</i>	-51.13	
				<i>For 30 Degree Bend, Deduct</i>	-86.80	
	26 05 36 00-2322	EA		36" Horizontal 45 Degree Elbow, 36" Radius, Aluminum Cable Tray Cover.....	211.37	30.76
				<i>For 60 Degree Bend, Deduct</i>	-57.95	
				<i>For 30 Degree Bend, Deduct</i>	-98.30	
<b>26 05 36 00-2323    90 Degree, 12" Radius Vertical Risers</b> <small>(26 05 36 00-2266)</small>						
	26 05 36 00-2324	EA		6" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	58.82	9.85
	26 05 36 00-2325	EA		9" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	61.94	11.54
	26 05 36 00-2326	EA		12" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	69.21	13.69
	26 05 36 00-2327	EA		18" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	82.05	16.77
	26 05 36 00-2328	EA		24" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	92.42	21.69
	26 05 36 00-2329	EA		30" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	98.47	24.76
	26 05 36 00-2330	EA		36" Vertical Riser 90 Degree, 12" Radius, Aluminum Cable Tray Cover.....	118.39	29.53
<b>26 05 36 00-2331    90 Degree, 24" Radius Vertical Risers</b> <small>(26 05 36 00-2266)</small>						

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2332 EA 6" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover .....	66.81	10.92
26 05 36 00-2333 EA 9" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover .....	74.22	12.76
26 05 36 00-2334 EA 12" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover .....	83.02	15.39
26 05 36 00-2335 EA 18" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover .....	99.98	18.46
26 05 36 00-2336 EA 24" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover .....	115.39	23.84
26 05 36 00-2337 EA 30" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover .....	144.65	28.46
26 05 36 00-2338 EA 36" Vertical Riser 90 Degree, 24" Radius, Aluminum Cable Tray Cover .....	161.98	33.53
<b>26 05 36 00-2339 90 Degree, 36" Radius Vertical Risers (26 05 36 00-2266)</b>		
26 05 36 00-2340 EA 6" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover .....	76.65	12.30
26 05 36 00-2341 EA 9" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover .....	92.91	14.15
26 05 36 00-2342 EA 12" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover .....	109.30	17.54
26 05 36 00-2343 EA 18" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover .....	129.82	19.53
26 05 36 00-2344 EA 24" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover .....	160.12	27.23
26 05 36 00-2345 EA 30" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover .....	198.45	32.15
26 05 36 00-2346 EA 36" Vertical Riser 90 Degree, 36" Radius, Aluminum Cable Tray Cover .....	217.17	36.91
<b>26 05 36 00-2347 12" Radius Horizontal Tees (26 05 36 00-2266)</b>		
26 05 36 00-2348 EA 6" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....	95.99	16.00
26 05 36 00-2349 EA 9" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....	104.30	18.46
26 05 36 00-2350 EA 12" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....	118.26	21.69
26 05 36 00-2351 EA 18" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....	138.45	24.61
26 05 36 00-2352 EA 24" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....	170.66	28.46
26 05 36 00-2353 EA 30" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....	213.16	40.92
26 05 36 00-2354 EA 36" Horizontal Tee, 12" Radius, Aluminum Cable Tray Cover .....	257.05	49.07
<b>26 05 36 00-2355 24" Radius Horizontal Tees (26 05 36 00-2266)</b>		
26 05 36 00-2356 EA 6" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....	140.45	16.77
26 05 36 00-2357 EA 9" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....	157.93	19.53
26 05 36 00-2358 EA 12" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....	179.01	23.07
26 05 36 00-2359 EA 18" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....	208.38	26.46
26 05 36 00-2360 EA 24" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....	312.87	30.76
26 05 36 00-2361 EA 30" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....	366.81	46.15
26 05 36 00-2362 EA 36" Horizontal Tee, 24" Radius, Aluminum Cable Tray Cover .....	416.89	56.76
<b>26 05 36 00-2363 36" Radius Horizontal Tees (26 05 36 00-2266)</b>		
26 05 36 00-2364 EA 6" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....	234.70	17.54
26 05 36 00-2365 EA 9" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....	243.96	20.46
26 05 36 00-2366 EA 12" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....	272.51	24.61
26 05 36 00-2367 EA 18" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....	309.17	28.46
26 05 36 00-2368 EA 24" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....	389.09	33.53
26 05 36 00-2369 EA 30" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....	462.32	52.91
26 05 36 00-2370 EA 36" Horizontal Tee, 36" Radius, Aluminum Cable Tray Cover .....	533.31	66.92
<b>26 05 36 00-2371 12" Radius Horizontal Crosses (26 05 36 00-2266)</b>		
26 05 36 00-2372 EA 6" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....	142.14	21.69
26 05 36 00-2373 EA 9" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....	150.94	23.07
26 05 36 00-2374 EA 12" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....	166.57	24.61
26 05 36 00-2375 EA 18" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....	198.78	28.46
26 05 36 00-2376 EA 24" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....	243.38	40.92
26 05 36 00-2377 EA 30" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....	289.42	49.07
26 05 36 00-2378 EA 36" Horizontal Cross, 12" Radius, Aluminum Cable Tray Cover .....	327.92	52.76
<b>26 05 36 00-2379 24" Radius Horizontal Crosses (26 05 36 00-2266)</b>		
26 05 36 00-2380 EA 6" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....	246.15	23.07
26 05 36 00-2381 EA 9" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....	263.86	24.61
26 05 36 00-2382 EA 12" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....	284.08	26.46
26 05 36 00-2383 EA 18" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....	330.18	30.76
26 05 36 00-2384 EA 24" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....	410.01	46.15
26 05 36 00-2385 EA 30" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....	483.82	56.76
26 05 36 00-2386 EA 36" Horizontal Cross, 24" Radius, Aluminum Cable Tray Cover .....	524.11	61.38
<b>26 05 36 00-2387 36" Radius Horizontal Crosses (26 05 36 00-2266)</b>		
26 05 36 00-2388 EA 6" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....	374.17	24.61
26 05 36 00-2389 EA 9" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....	392.24	26.46
26 05 36 00-2390 EA 12" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....	421.65	28.46
26 05 36 00-2391 EA 18" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....	466.96	33.53
26 05 36 00-2392 EA 24" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....	596.36	52.76
26 05 36 00-2393 EA 30" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....	696.03	67.22
26 05 36 00-2394 EA 36" Horizontal Cross, 36" Radius, Aluminum Cable Tray Cover .....	761.13	73.84



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 36 00-2395</b>				<b>Reducers</b> <small>(26 05 36 00-2266)</small>		
	EA			9" To 6" Reducer, Aluminum Cable Tray Covers.....	72.23	11.54
	EA			12" To 6" Reducer, Aluminum Cable Tray Covers.....	77.93	13.69
	EA			12" To 9" Reducer, Aluminum Cable Tray Covers.....	77.93	13.69
	EA			18" To 6" Reducer, Aluminum Cable Tray Covers.....	88.52	16.77
	EA			18" To 12" Reducer, Aluminum Cable Tray Covers.....	88.52	16.77
	EA			24" To 12" Reducer, Aluminum Cable Tray Covers.....	97.81	18.46
	EA			24" To 18" Reducer, Aluminum Cable Tray Covers.....	106.41	18.46
	EA			30" To 12" Reducer, Aluminum Cable Tray Covers.....	113.06	21.08
	EA			30" To 18" Reducer, Aluminum Cable Tray Covers.....	116.26	21.08
	EA			30" To 24" Reducer, Aluminum Cable Tray Covers.....	118.50	21.08
	EA			36" To 12" Reducer, Aluminum Cable Tray Covers.....	124.90	23.07
	EA			36" To 18" Reducer, Aluminum Cable Tray Covers.....	127.06	23.07
	EA			36" To 24" Reducer, Aluminum Cable Tray Covers.....	128.14	23.07
	EA			36" To 30" Reducer, Aluminum Cable Tray Covers.....	129.23	23.07
<b>26 05 36 00-2410</b>				<b>Galvanized Steel Dividers</b> <small>(26 05 36 00-2121)</small>		
<b>26 05 36 00-2411</b>				<b>Straight Dividers</b> <small>(26 05 36 00-2410)</small>		
	LF			3" Deep Galvanized Steel Divider Strip, Straight.....	12.45	3.70
	LF			4" Deep Galvanized Steel Divider Strip, Straight.....	14.57	4.00
	LF			6" Deep Galvanized Steel Divider Strip, Straight.....	17.89	4.62
<b>26 05 36 00-2415</b>				<b>3" Deep Vertical Dividers</b> <small>(26 05 36 00-2410)</small>		
	EA			Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Steel Cable Tray.....	74.95	26.46
	EA			Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Steel Cable Tray.....	84.39	27.38
	EA			Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Steel Cable Tray.....	88.63	28.46
	EA			Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Steel Cable Tray.....	100.80	29.53
	EA			Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Steel Cable Tray.....	96.21	29.53
	EA			Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Steel Cable Tray.....	103.94	30.76
	EA			Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Steel Cable Tray.....	120.01	32.15
	EA			Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Steel Cable Tray.....	146.54	33.53
	EA			Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Steel Cable.....	119.03	33.53
	EA			Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Steel Cable Tray.....	131.96	35.22
	EA			Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Steel Cable Tray.....	147.49	36.91
	EA			Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Steel Cable Tray.....	183.96	38.92
<b>26 05 36 00-2428</b>				<b>4" Deep Vertical Dividers</b> <small>(26 05 36 00-2410)</small>		
	EA			Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Steel Cable Tray.....	84.96	27.38
	EA			Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Steel Cable Tray.....	93.22	28.46
	EA			Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Steel Cable Tray.....	100.80	29.53
	EA			Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Steel Cable Tray.....	114.26	30.76
	EA			Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Steel Cable Tray.....	114.26	30.76
	EA			Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Steel Cable Tray.....	132.62	32.15
	EA			Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Steel Cable Tray.....	145.39	33.53
	EA			Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Steel Cable Tray.....	177.80	35.22
	EA			Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Steel Cable Tray.....	126.89	32.15
	EA			Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Steel Cable Tray.....	139.66	33.53
	EA			Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Steel Cable Tray.....	164.05	35.22
	EA			Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Steel Cable Tray.....	204.80	36.91
<b>26 05 36 00-2441</b>				<b>6" Deep Vertical Dividers</b> <small>(26 05 36 00-2410)</small>		
	EA			Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Steel Cable Tray.....	94.20	30.76
	EA			Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Steel Cable Tray.....	101.67	32.15
	EA			Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Steel Cable Tray.....	111.01	33.53
	EA			Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Steel Cable Tray.....	127.37	35.22
	EA			Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Steel Cable Tray.....	116.57	32.15
	EA			Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Steel Cable Tray.....	135.08	33.53
	EA			Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Steel Cable Tray.....	149.15	35.22
	EA			Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Steel Cable Tray.....	180.73	36.91
	EA			Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Steel Cable Tray.....	129.35	33.53
	EA			Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Steel Cable Tray.....	149.15	35.22
	EA			Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Steel Cable Tray.....	180.73	36.91
	EA			Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Steel Cable Tray.....	218.35	38.92
<b>26 05 36 00-2454</b>				<b>Horizontal Dividers</b> <small>(26 05 36 00-2410)</small>		
	EA			3" Deep Horizontal Fitting Divider Strip, Steel Cable Tray.....	81.35	22.31
	EA			4" Deep Horizontal Fitting Divider Strip, Steel Cable Tray.....	90.36	24.61
	EA			6" Deep Horizontal Fitting Divider Strip, Steel Cable Tray.....	108.57	27.38
<b>26 05 36 00-2458</b>				<b>Aluminum Dividers</b> <small>(26 05 36 00-2121)</small>		
<b>26 05 36 00-2459</b>				<b>Straight Dividers</b> <small>(26 05 36 00-2458)</small>		
	LF			3" Deep Aluminum Divider Strip, Straight.....	11.80	3.54

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2461 LF 4" Deep Aluminum Divider Strip, Straight .....	13.81	3.85
26 05 36 00-2462 LF 6" Deep Aluminum Divider Strip, Straight .....	16.86	4.31
<b>26 05 36 00-2463 3" Deep Vertical Dividers (26 05 36 00-2458)</b>		
26 05 36 00-2464 EA Vertical Divider, 3" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray.....	66.15	25.53
26 05 36 00-2465 EA Vertical Divider, 3" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray.....	71.94	26.46
26 05 36 00-2466 EA Vertical Divider, 3" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray.....	78.23	27.38
26 05 36 00-2467 EA Vertical Divider, 3" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray.....	88.77	28.46
26 05 36 00-2468 EA Vertical Divider, 3" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray.....	86.70	28.46
26 05 36 00-2469 EA Vertical Divider, 3" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray.....	94.76	29.53
26 05 36 00-2470 EA Vertical Divider, 3" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray.....	108.14	30.76
26 05 36 00-2471 EA Vertical Divider, 3" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray.....	131.15	32.15
26 05 36 00-2472 EA Vertical Divider, 3" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray.....	113.56	32.15
26 05 36 00-2473 EA Vertical Divider, 3" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray.....	133.61	33.53
26 05 36 00-2474 EA Vertical Divider, 3" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray.....	158.99	35.22
26 05 36 00-2475 EA Vertical Divider, 3" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray.....	192.96	36.91
<b>26 05 36 00-2476 4" Deep Vertical Dividers (26 05 36 00-2458)</b>		
26 05 36 00-2477 EA Vertical Divider, 4" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray.....	77.43	26.46
26 05 36 00-2478 EA Vertical Divider, 4" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray.....	84.34	27.38
26 05 36 00-2479 EA Vertical Divider, 4" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray.....	91.87	28.46
26 05 36 00-2480 EA Vertical Divider, 4" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray.....	102.00	29.53
26 05 36 00-2481 EA Vertical Divider, 4" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray.....	100.97	29.53
26 05 36 00-2482 EA Vertical Divider, 4" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray.....	115.38	30.76
26 05 36 00-2483 EA Vertical Divider, 4" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray.....	129.08	32.15
26 05 36 00-2484 EA Vertical Divider, 4" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray.....	159.48	33.53
26 05 36 00-2485 EA Vertical Divider, 4" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray.....	131.94	30.76
26 05 36 00-2486 EA Vertical Divider, 4" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray.....	157.02	32.15
26 05 36 00-2487 EA Vertical Divider, 4" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray.....	182.25	33.53
26 05 36 00-2488 EA Vertical Divider, 4" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray.....	217.98	35.22
<b>26 05 36 00-2489 6" Deep Vertical Dividers (26 05 36 00-2458)</b>		
26 05 36 00-2490 EA Vertical Divider, 6" Deep, 12" Radius, 30 Degree, Aluminum Cable Tray.....	85.86	29.53
26 05 36 00-2491 EA Vertical Divider, 6" Deep, 12" Radius, 45 Degree, Aluminum Cable Tray.....	94.69	30.76
26 05 36 00-2492 EA Vertical Divider, 6" Deep, 12" Radius, 60 Degree, Aluminum Cable Tray.....	99.07	32.15
26 05 36 00-2493 EA Vertical Divider, 6" Deep, 12" Radius, 90 Degree, Aluminum Cable Tray.....	109.81	33.53
26 05 36 00-2494 EA Vertical Divider, 6" Deep, 24" Radius, 30 Degree, Aluminum Cable Tray.....	105.04	30.76
26 05 36 00-2495 EA Vertical Divider, 6" Deep, 24" Radius, 45 Degree, Aluminum Cable Tray.....	127.01	32.15
26 05 36 00-2496 EA Vertical Divider, 6" Deep, 24" Radius, 60 Degree, Aluminum Cable Tray.....	136.71	33.53
26 05 36 00-2497 EA Vertical Divider, 6" Deep, 24" Radius, 90 Degree, Aluminum Cable Tray.....	168.30	35.22
26 05 36 00-2498 EA Vertical Divider, 6" Deep, 36" Radius, 30 Degree, Aluminum Cable Tray.....	135.29	32.15
26 05 36 00-2499 EA Vertical Divider, 6" Deep, 36" Radius, 45 Degree, Aluminum Cable Tray.....	165.69	33.53
26 05 36 00-2500 EA Vertical Divider, 6" Deep, 36" Radius, 60 Degree, Aluminum Cable Tray.....	187.96	35.22
26 05 36 00-2501 EA Vertical Divider, 6" Deep, 36" Radius, 90 Degree, Aluminum Cable Tray.....	216.77	36.91
<b>26 05 36 00-2502 Horizontal Dividers (26 05 36 00-2458)</b>		
26 05 36 00-2503 EA 3" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray .....	72.89	21.08
26 05 36 00-2504 EA 4" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray .....	79.86	23.07
26 05 36 00-2505 EA 6" Deep Horizontal Fitting Divider Strip, Aluminum Cable Tray .....	97.30	25.53
<b>26 05 36 00-2506 Cable Tray Wall Brackets (26 05 36 00-0001)</b>		
<b>26 05 36 00-2507 Wall Brackets (26 05 36 00-2506)</b>		
26 05 36 00-2508 EA 6" Wide Cable Tray Wall Bracket.....	97.41	30.76
26 05 36 00-2509 EA 9" Wide Cable Tray Wall Bracket.....	101.04	32.15
26 05 36 00-2510 EA 12" Wide Cable Tray Wall Bracket.....	110.10	33.53
26 05 36 00-2511 EA 18" Wide Cable Tray Wall Bracket.....	116.67	35.22
26 05 36 00-2512 EA 24" Wide Cable Tray Wall Bracket.....	126.20	36.91
26 05 36 00-2513 EA 30" Wide Cable Tray Wall Bracket.....	147.89	38.92
26 05 36 00-2514 EA 36" Wide Cable Tray Wall Bracket.....	174.79	41.53
<b>26 05 36 00-2515 Fiberglass Cable Tray (26 05 36 00-0001)</b>		
<b>26 05 36 00-2516 Ladder Bottom Fiberglass Cable Tray (26 05 36 00-2515)</b>		
Note: Excludes hangers and support system.		
<b>26 05 36 00-2517 Straight Tray Sections (26 05 36 00-2516)</b>		
26 05 36 00-2518 LF 6" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing .....	14.07	4.16
For 9" Rung Spacing, Add	0.28	
For 6" Rung Spacing, Add	1.19	
For 4" Rung Spacing, Add	2.18	
For 18" Rung Spacing, Deduct	-0.20	
For Solid Bottom, Add	3.30	
For Vented Trough Bottom, Add	3.94	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2519    LF    9" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing .....	15.87	5.08
<i>For 9" Rung Spacing, Add</i>	0.29	
<i>For 6" Rung Spacing, Add</i>	1.23	
<i>For 4" Rung Spacing, Add</i>	2.25	
<i>For 18" Rung Spacing, Deduct</i>	-0.20	
<i>For Solid Bottom, Add</i>	3.61	
<i>For Vented Trough Bottom, Add</i>	4.23	
26 05 36 00-2520    LF    12" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing .....	17.64	6.15
<i>For 9" Rung Spacing, Add</i>	0.29	
<i>For 6" Rung Spacing, Add</i>	1.26	
<i>For 4" Rung Spacing, Add</i>	2.31	
<i>For 18" Rung Spacing, Deduct</i>	-0.21	
<i>For Solid Bottom, Add</i>	3.91	
<i>For Vented Trough Bottom, Add</i>	4.52	
26 05 36 00-2521    LF    18" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing .....	21.35	8.15
<i>For 9" Rung Spacing, Add</i>	0.32	
<i>For 6" Rung Spacing, Add</i>	1.36	
<i>For 4" Rung Spacing, Add</i>	2.49	
<i>For 18" Rung Spacing, Deduct</i>	-0.23	
<i>For Solid Bottom, Add</i>	4.56	
<i>For Vented Trough Bottom, Add</i>	5.15	
26 05 36 00-2522    LF    24" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing .....	25.04	10.31
<i>For 9" Rung Spacing, Add</i>	0.34	
<i>For 6" Rung Spacing, Add</i>	1.45	
<i>For 4" Rung Spacing, Add</i>	2.65	
<i>For 18" Rung Spacing, Deduct</i>	-0.24	
<i>For Solid Bottom, Add</i>	5.20	
<i>For Vented Trough Bottom, Add</i>	5.78	
26 05 36 00-2523    LF    30" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing .....	27.39	11.23
<i>For 9" Rung Spacing, Add</i>	0.37	
<i>For 6" Rung Spacing, Add</i>	1.57	
<i>For 4" Rung Spacing, Add</i>	2.88	
<i>For 18" Rung Spacing, Deduct</i>	-0.26	
<i>For Solid Bottom, Add</i>	5.68	
<i>For Vented Trough Bottom, Add</i>	6.30	
26 05 36 00-2524    LF    36" Fiberglass Cable Tray - Straight Section, 12" Rung Spacing .....	29.79	12.30
<i>For 9" Rung Spacing, Add</i>	0.40	
<i>For 6" Rung Spacing, Add</i>	1.70	
<i>For 4" Rung Spacing, Add</i>	3.12	
<i>For 18" Rung Spacing, Deduct</i>	-0.28	
<i>For Solid Bottom, Add</i>	6.17	
<i>For Vented Trough Bottom, Add</i>	6.84	
<b>26 05 36 00-2525    90 Degree Horizontal Elbows (26 05 36 00-2516)</b>		
26 05 36 00-2526    EA    6" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....	78.20	30.76
<i>For 9" Rung Spacing, Add</i>	1.12	
<i>For 6" Rung Spacing, Add</i>	4.81	
<i>For 4" Rung Spacing, Add</i>	8.81	
<i>For 18" Rung Spacing, Deduct</i>	-0.80	
<i>For Solid Bottom, Add</i>	16.54	
<i>For Vented Trough Bottom, Add</i>	18.59	
<i>For 60 Degree Bend, Deduct</i>	-15.19	
<i>For 45 Degree Bend, Deduct</i>	-21.02	
<i>For 30 Degree Bend, Deduct</i>	-26.86	
26 05 36 00-2527    EA    9" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....	87.71	35.84
<i>For 9" Rung Spacing, Add</i>	1.19	
<i>For 6" Rung Spacing, Add</i>	5.08	
<i>For 4" Rung Spacing, Add</i>	9.32	
<i>For 18" Rung Spacing, Deduct</i>	-0.85	
<i>For Solid Bottom, Add</i>	18.24	
<i>For Vented Trough Bottom, Add</i>	20.28	
<i>For 60 Degree Bend, Deduct</i>	-16.56	
<i>For 45 Degree Bend, Deduct</i>	-22.98	
<i>For 30 Degree Bend, Deduct</i>	-29.40	
26 05 36 00-2528    EA    12" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....	103.40	45.07
<i>For 9" Rung Spacing, Add</i>	1.25	
<i>For 6" Rung Spacing, Add</i>	5.36	
<i>For 4" Rung Spacing, Add</i>	9.82	
<i>For 18" Rung Spacing, Deduct</i>	-0.89	
<i>For Solid Bottom, Add</i>	20.87	
<i>For Vented Trough Bottom, Add</i>	22.75	
<i>For 60 Degree Bend, Deduct</i>	-18.56	
<i>For 45 Degree Bend, Deduct</i>	-25.87	
<i>For 30 Degree Bend, Deduct</i>	-33.18	
26 05 36 00-2529    EA    18" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....	122.55	54.46
<i>For 9" Rung Spacing, Add</i>	1.44	
<i>For 6" Rung Spacing, Add</i>	6.15	
<i>For 4" Rung Spacing, Add</i>	11.28	
<i>For 18" Rung Spacing, Deduct</i>	-1.03	
<i>For Solid Bottom, Add</i>	24.54	
<i>For Vented Trough Bottom, Add</i>	26.60	
<i>For 60 Degree Bend, Deduct</i>	-21.69	
<i>For 45 Degree Bend, Deduct</i>	-30.28	
<i>For 30 Degree Bend, Deduct</i>	-38.87	

**26 Electrical**

**26 05 Common Work Results for Electrical**

**26 05 36 Cable Trays for Electrical Systems**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2530	EA		24" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....	138.94	62.61
			<i>For 9" Rung Spacing, Add</i>	1.58	
			<i>For 6" Rung Spacing, Add</i>	6.77	
			<i>For 4" Rung Spacing, Add</i>	12.41	
			<i>For 18" Rung Spacing, Deduct</i>	-1.13	
			<i>For Solid Bottom, Add</i>	27.61	
			<i>For Vented Trough Bottom, Add</i>	29.77	
			<i>For 60 Degree Bend, Deduct</i>	-24.27	
			<i>For 45 Degree Bend, Deduct</i>	-33.92	
			<i>For 30 Degree Bend, Deduct</i>	-43.58	
26 05 36 00-2531	EA		30" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....	151.82	66.76
			<i>For 9" Rung Spacing, Add</i>	1.81	
			<i>For 6" Rung Spacing, Add</i>	7.78	
			<i>For 4" Rung Spacing, Add</i>	14.26	
			<i>For 18" Rung Spacing, Deduct</i>	-1.30	
			<i>For Solid Bottom, Add</i>	30.55	
			<i>For Vented Trough Bottom, Add</i>	33.23	
			<i>For 60 Degree Bend, Deduct</i>	-27.11	
			<i>For 45 Degree Bend, Deduct</i>	-37.81	
			<i>For 30 Degree Bend, Deduct</i>	-48.51	
26 05 36 00-2532	EA		36" Horizontal 90 Degree Elbow, Fiberglass Cable Tray .....	167.23	71.84
			<i>For 9" Rung Spacing, Add</i>	2.08	
			<i>For 6" Rung Spacing, Add</i>	8.93	
			<i>For 4" Rung Spacing, Add</i>	16.38	
			<i>For 18" Rung Spacing, Deduct</i>	-1.49	
			<i>For Solid Bottom, Add</i>	34.02	
			<i>For Vented Trough Bottom, Add</i>	37.28	
			<i>For 60 Degree Bend, Deduct</i>	-30.42	
			<i>For 45 Degree Bend, Deduct</i>	-42.35	
			<i>For 30 Degree Bend, Deduct</i>	-54.29	
<b>26 05 36 00-2533</b>			<b>Inside Or Outside Vertical Risers <small>(26 05 36 00-2516)</small></b>		
26 05 36 00-2534	EA		6" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray .....	111.66	30.76
			<i>For 9" Rung Spacing, Add</i>	2.29	
			<i>For 6" Rung Spacing, Add</i>	9.83	
			<i>For 4" Rung Spacing, Add</i>	18.02	
			<i>For 18" Rung Spacing, Deduct</i>	-1.64	
			<i>For Solid Bottom, Add</i>	26.58	
			<i>For Vented Trough Bottom, Add</i>	31.98	
			<i>For 60 Degree Bend, Deduct</i>	-26.24	
			<i>For 45 Degree Bend, Deduct</i>	-35.75	
			<i>For 30 Degree Bend, Deduct</i>	-45.26	
26 05 36 00-2535	EA		9" Vertical Inside Or Outside Riser 90, Fiberglass .....	120.28	35.84
			<i>For 9" Rung Spacing, Add</i>	2.33	
			<i>For 6" Rung Spacing, Add</i>	9.97	
			<i>For 4" Rung Spacing, Add</i>	18.27	
			<i>For 18" Rung Spacing, Deduct</i>	-1.66	
			<i>For Solid Bottom, Add</i>	28.01	
			<i>For Vented Trough Bottom, Add</i>	33.31	
			<i>For 60 Degree Bend, Deduct</i>	-27.31	
			<i>For 45 Degree Bend, Deduct</i>	-37.31	
			<i>For 30 Degree Bend, Deduct</i>	-47.31	
26 05 36 00-2536	EA		12" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray .....	135.04	45.07
			<i>For 9" Rung Spacing, Add</i>	2.36	
			<i>For 6" Rung Spacing, Add</i>	10.10	
			<i>For 4" Rung Spacing, Add</i>	18.52	
			<i>For 18" Rung Spacing, Deduct</i>	-1.68	
			<i>For Solid Bottom, Add</i>	30.36	
			<i>For Vented Trough Bottom, Add</i>	35.40	
			<i>For 60 Degree Bend, Deduct</i>	-29.00	
			<i>For 45 Degree Bend, Deduct</i>	-39.79	
			<i>For 30 Degree Bend, Deduct</i>	-50.58	
26 05 36 00-2537	EA		18" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray .....	150.92	54.46
			<i>For 9" Rung Spacing, Add</i>	2.43	
			<i>For 6" Rung Spacing, Add</i>	10.41	
			<i>For 4" Rung Spacing, Add</i>	19.09	
			<i>For 18" Rung Spacing, Deduct</i>	-1.74	
			<i>For Solid Bottom, Add</i>	33.05	
			<i>For Vented Trough Bottom, Add</i>	37.95	
			<i>For 60 Degree Bend, Deduct</i>	-31.05	
			<i>For 45 Degree Bend, Deduct</i>	-42.76	
			<i>For 30 Degree Bend, Deduct</i>	-54.47	
26 05 36 00-2538	EA		24" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray .....	165.07	62.61
			<i>For 9" Rung Spacing, Add</i>	2.49	
			<i>For 6" Rung Spacing, Add</i>	10.69	
			<i>For 4" Rung Spacing, Add</i>	19.59	
			<i>For 18" Rung Spacing, Deduct</i>	-1.78	
			<i>For Solid Bottom, Add</i>	35.45	
			<i>For Vented Trough Bottom, Add</i>	40.22	
			<i>For 60 Degree Bend, Deduct</i>	-32.89	
			<i>For 45 Degree Bend, Deduct</i>	-45.42	
			<i>For 30 Degree Bend, Deduct</i>	-57.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2539 EA 30" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray .....	173.05	66.76
<i>For 9" Rung Spacing, Add</i>	2.56	
<i>For 6" Rung Spacing, Add</i>	10.96	
<i>For 4" Rung Spacing, Add</i>	20.09	
<i>For 18" Rung Spacing, Deduct</i>	-1.83	
<i>For Solid Bottom, Add</i>	36.92	
<i>For Vented Trough Bottom, Add</i>	41.73	
<i>For 60 Degree Bend, Deduct</i>	-34.11	
<i>For 45 Degree Bend, Deduct</i>	-47.15	
<i>For 30 Degree Bend, Deduct</i>	-60.18	
26 05 36 00-2540 EA 36" Vertical Inside Or Outside Riser 90, Fiberglass Cable Tray .....	188.40	71.84
<i>For 9" Rung Spacing, Add</i>	2.83	
<i>For 6" Rung Spacing, Add</i>	12.11	
<i>For 4" Rung Spacing, Add</i>	22.20	
<i>For 18" Rung Spacing, Deduct</i>	-2.02	
<i>For Solid Bottom, Add</i>	40.37	
<i>For Vented Trough Bottom, Add</i>	45.75	
<i>For 60 Degree Bend, Deduct</i>	-37.41	
<i>For 45 Degree Bend, Deduct</i>	-51.67	
<i>For 30 Degree Bend, Deduct</i>	-65.93	
<b>26 05 36 00-2541 Horizontal Tees</b> <small>(26 05 36 00-2516)</small>		
26 05 36 00-2542 EA 6" Horizontal Tee, Fiberglass Cable Tray .....	171.91	76.91
<i>For 9" Rung Spacing, Add</i>	1.98	
<i>For 6" Rung Spacing, Add</i>	8.48	
<i>For 4" Rung Spacing, Add</i>	15.55	
<i>For 18" Rung Spacing, Deduct</i>	-1.41	
<i>For Solid Bottom, Add</i>	34.27	
<i>For Vented Trough Bottom, Add</i>	37.04	
26 05 36 00-2543 EA 9" Horizontal Tee, Fiberglass Cable Tray .....	194.15	90.30
<i>For 9" Rung Spacing, Add</i>	2.06	
<i>For 6" Rung Spacing, Add</i>	8.82	
<i>For 4" Rung Spacing, Add</i>	16.16	
<i>For 18" Rung Spacing, Deduct</i>	-1.47	
<i>For Solid Bottom, Add</i>	37.94	
<i>For Vented Trough Bottom, Add</i>	40.43	
26 05 36 00-2544 EA 12" Horizontal Tee, Fiberglass Cable Tray .....	222.54	107.68
<i>For 9" Rung Spacing, Add</i>	2.14	
<i>For 6" Rung Spacing, Add</i>	9.15	
<i>For 4" Rung Spacing, Add</i>	16.78	
<i>For 18" Rung Spacing, Deduct</i>	-1.53	
<i>For Solid Bottom, Add</i>	42.54	
<i>For Vented Trough Bottom, Add</i>	44.60	
26 05 36 00-2545 EA 18" Horizontal Tee, Fiberglass Cable Tray .....	248.66	121.06
<i>For 9" Rung Spacing, Add</i>	2.35	
<i>For 6" Rung Spacing, Add</i>	10.07	
<i>For 4" Rung Spacing, Add</i>	18.47	
<i>For 18" Rung Spacing, Deduct</i>	-1.68	
<i>For Solid Bottom, Add</i>	47.37	
<i>For Vented Trough Bottom, Add</i>	49.55	
26 05 36 00-2546 EA 24" Horizontal Tee, Fiberglass Cable Tray .....	261.25	126.13
<i>For 9" Rung Spacing, Add</i>	2.52	
<i>For 6" Rung Spacing, Add</i>	10.81	
<i>For 4" Rung Spacing, Add</i>	19.81	
<i>For 18" Rung Spacing, Deduct</i>	-1.80	
<i>For Solid Bottom, Add</i>	50.00	
<i>For Vented Trough Bottom, Add</i>	52.47	
26 05 36 00-2547 EA 30" Horizontal Tee, Fiberglass Cable Tray .....	279.57	133.36
<i>For 9" Rung Spacing, Add</i>	2.79	
<i>For 6" Rung Spacing, Add</i>	11.94	
<i>For 4" Rung Spacing, Add</i>	21.89	
<i>For 18" Rung Spacing, Deduct</i>	-1.99	
<i>For Solid Bottom, Add</i>	53.88	
<i>For Vented Trough Bottom, Add</i>	56.84	
26 05 36 00-2548 EA 36" Horizontal Tee, Fiberglass Cable Tray .....	303.30	143.67
<i>For 9" Rung Spacing, Add</i>	3.08	
<i>For 6" Rung Spacing, Add</i>	13.19	
<i>For 4" Rung Spacing, Add</i>	24.18	
<i>For 18" Rung Spacing, Deduct</i>	-2.20	
<i>For Solid Bottom, Add</i>	58.69	
<i>For Vented Trough Bottom, Add</i>	62.10	
<b>26 05 36 00-2549 Horizontal Crosses</b> <small>(26 05 36 00-2516)</small>		
26 05 36 00-2550 EA 6" Horizontal Cross, Fiberglass Cable Tray .....	272.43	133.36
<i>For 9" Rung Spacing, Add</i>	2.54	
<i>For 6" Rung Spacing, Add</i>	10.87	
<i>For 4" Rung Spacing, Add</i>	19.93	
<i>For 18" Rung Spacing, Deduct</i>	-1.81	
<i>For Solid Bottom, Add</i>	51.73	
<i>For Vented Trough Bottom, Add</i>	53.98	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2551 EA 9" Horizontal Cross, Fiberglass Cable Tray .....	289.95	143.67
For 9" Rung Spacing, Add	2.61	
For 6" Rung Spacing, Add	11.19	
For 4" Rung Spacing, Add	20.52	
For 18" Rung Spacing, Deduct	-1.87	
For Solid Bottom, Add	54.68	
For Vented Trough Bottom, Add	56.76	
26 05 36 00-2552 EA 12" Horizontal Cross, Fiberglass Cable Tray .....	307.49	153.98
For 9" Rung Spacing, Add	2.69	
For 6" Rung Spacing, Add	11.51	
For 4" Rung Spacing, Add	21.11	
For 18" Rung Spacing, Deduct	-1.92	
For Solid Bottom, Add	57.64	
For Vented Trough Bottom, Add	59.54	
26 05 36 00-2553 EA 18" Horizontal Cross, Fiberglass Cable Tray .....	328.99	164.13
For 9" Rung Spacing, Add	2.90	
For 6" Rung Spacing, Add	12.43	
For 4" Rung Spacing, Add	22.79	
For 18" Rung Spacing, Deduct	-2.07	
For Solid Bottom, Add	61.78	
For Vented Trough Bottom, Add	63.91	
26 05 36 00-2554 EA 24" Horizontal Cross, Fiberglass Cable Tray .....	349.06	174.43
For 9" Rung Spacing, Add	3.06	
For 6" Rung Spacing, Add	13.13	
For 4" Rung Spacing, Add	24.08	
For 18" Rung Spacing, Deduct	-2.19	
For Solid Bottom, Add	65.49	
For Vented Trough Bottom, Add	67.71	
26 05 36 00-2555 EA 30" Horizontal Cross, Fiberglass Cable Tray .....	372.19	184.74
For 9" Rung Spacing, Add	3.34	
For 6" Rung Spacing, Add	14.30	
For 4" Rung Spacing, Add	26.21	
For 18" Rung Spacing, Deduct	-2.38	
For Solid Bottom, Add	70.13	
For Vented Trough Bottom, Add	72.74	
26 05 36 00-2556 EA 36" Horizontal Cross, Fiberglass Cable Tray .....	402.20	197.97
For 9" Rung Spacing, Add	3.69	
For 6" Rung Spacing, Add	15.80	
For 4" Rung Spacing, Add	28.96	
For 18" Rung Spacing, Deduct	-2.63	
For Solid Bottom, Add	76.13	
For Vented Trough Bottom, Add	79.24	
<b>26 05 36 00-2557 Horizontal Wyes (26 05 36 00-2516)</b>		
26 05 36 00-2558 EA 6" Horizontal Wye, Fiberglass Cable Tray .....	166.18	76.91
For 9" Rung Spacing, Add	1.78	
For 6" Rung Spacing, Add	7.62	
For 4" Rung Spacing, Add	13.98	
For 18" Rung Spacing, Deduct	-1.27	
For Solid Bottom, Add	32.55	
For Vented Trough Bottom, Add	34.75	
26 05 36 00-2559 EA 9" Horizontal Wye, Fiberglass Cable Tray .....	175.94	82.14
For 9" Rung Spacing, Add	1.85	
For 6" Rung Spacing, Add	7.93	
For 4" Rung Spacing, Add	14.54	
For 18" Rung Spacing, Deduct	-1.32	
For Solid Bottom, Add	34.32	
For Vented Trough Bottom, Add	36.53	
26 05 36 00-2560 EA 12" Horizontal Wye, Fiberglass Cable Tray .....	216.42	107.68
For 9" Rung Spacing, Add	1.92	
For 6" Rung Spacing, Add	8.24	
For 4" Rung Spacing, Add	15.10	
For 18" Rung Spacing, Deduct	-1.37	
For Solid Bottom, Add	40.70	
For Vented Trough Bottom, Add	42.15	
26 05 36 00-2561 EA 18" Horizontal Wye, Fiberglass Cable Tray .....	241.94	121.06
For 9" Rung Spacing, Add	2.11	
For 6" Rung Spacing, Add	9.06	
For 4" Rung Spacing, Add	16.62	
For 18" Rung Spacing, Deduct	-1.51	
For Solid Bottom, Add	45.35	
For Vented Trough Bottom, Add	46.86	
26 05 36 00-2562 EA 24" Horizontal Wye, Fiberglass Cable Tray .....	253.90	126.13
For 9" Rung Spacing, Add	2.26	
For 6" Rung Spacing, Add	9.71	
For 4" Rung Spacing, Add	17.79	
For 18" Rung Spacing, Deduct	-1.62	
For Solid Bottom, Add	47.79	
For Vented Trough Bottom, Add	49.53	
26 05 36 00-2563 EA 30" Horizontal Wye, Fiberglass Cable Tray .....	271.61	133.36
For 9" Rung Spacing, Add	2.51	
For 6" Rung Spacing, Add	10.75	
For 4" Rung Spacing, Add	19.70	
For 18" Rung Spacing, Deduct	-1.79	
For Solid Bottom, Add	51.49	
For Vented Trough Bottom, Add	53.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2564 EA 36" Horizontal Wye, Fiberglass Cable Tray .....	294.51	143.67
For 9" Rung Spacing, Add	2.77	
For 6" Rung Spacing, Add	11.87	
For 4" Rung Spacing, Add	21.77	
For 18" Rung Spacing, Deduct	-1.98	
For Solid Bottom, Add	56.05	
For Vented Trough Bottom, Add	58.58	
<b>26 05 36 00-2565 Straight Reducers</b> <small>(26 05 36 00-2516)</small>		
26 05 36 00-2566 EA 9" To 6" Reducer, Fiberglass Cable Tray .....	74.92	30.76
For 9" Rung Spacing, Add	1.01	
For 6" Rung Spacing, Add	4.32	
For 4" Rung Spacing, Add	7.91	
For 18" Rung Spacing, Deduct	-0.72	
For Solid Bottom, Add	15.56	
For Vented Trough Bottom, Add	17.28	
26 05 36 00-2567 EA 12" To 9" Reducer, Fiberglass Cable Tray .....	83.03	35.84
For 9" Rung Spacing, Add	1.02	
For 6" Rung Spacing, Add	4.38	
For 4" Rung Spacing, Add	8.03	
For 18" Rung Spacing, Deduct	-0.73	
For Solid Bottom, Add	16.83	
For Vented Trough Bottom, Add	18.41	
26 05 36 00-2568 EA 18" To 12" Reducer, Fiberglass Cable Tray .....	91.13	41.07
For 9" Rung Spacing, Add	1.04	
For 6" Rung Spacing, Add	4.44	
For 4" Rung Spacing, Add	8.14	
For 18" Rung Spacing, Deduct	-0.74	
For Solid Bottom, Add	18.11	
For Vented Trough Bottom, Add	19.53	
26 05 36 00-2569 EA 24" To 18" Reducer, Fiberglass Cable Tray .....	98.30	45.07
For 9" Rung Spacing, Add	1.07	
For 6" Rung Spacing, Add	4.59	
For 4" Rung Spacing, Add	8.42	
For 18" Rung Spacing, Deduct	-0.77	
For Solid Bottom, Add	19.34	
For Vented Trough Bottom, Add	20.71	
26 05 36 00-2570 EA 30" To 24" Reducer, Fiberglass Cable Tray .....	109.55	49.23
For 9" Rung Spacing, Add	1.25	
For 6" Rung Spacing, Add	5.36	
For 4" Rung Spacing, Add	9.82	
For 18" Rung Spacing, Deduct	-0.89	
For Solid Bottom, Add	21.79	
For Vented Trough Bottom, Add	23.52	
26 05 36 00-2571 EA 36" To 30" Reducer, Fiberglass Cable Tray .....	123.01	54.46
For 9" Rung Spacing, Add	1.45	
For 6" Rung Spacing, Add	6.22	
For 4" Rung Spacing, Add	11.41	
For 18" Rung Spacing, Deduct	-1.04	
For Solid Bottom, Add	24.68	
For Vented Trough Bottom, Add	26.79	
<b>26 05 36 00-2572 Vertical Tees</b> <small>(26 05 36 00-2516)</small>		
26 05 36 00-2573 EA 6" Vertical Tee, Fiberglass Cable Tray .....	223.34	76.91
For 9" Rung Spacing, Add	3.78	
For 6" Rung Spacing, Add	16.20	
For 4" Rung Spacing, Add	29.69	
For 18" Rung Spacing, Deduct	-2.70	
For Solid Bottom, Add	49.70	
For Vented Trough Bottom, Add	57.61	
26 05 36 00-2574 EA 9" Vertical Tee, Fiberglass Cable Tray .....	232.36	82.14
For 9" Rung Spacing, Add	3.83	
For 6" Rung Spacing, Add	16.40	
For 4" Rung Spacing, Add	30.06	
For 18" Rung Spacing, Deduct	-2.73	
For Solid Bottom, Add	51.25	
For Vented Trough Bottom, Add	59.11	
26 05 36 00-2575 EA 12" Vertical Tee, Fiberglass Cable Tray .....	272.14	107.68
For 9" Rung Spacing, Add	3.87	
For 6" Rung Spacing, Add	16.59	
For 4" Rung Spacing, Add	30.42	
For 18" Rung Spacing, Deduct	-2.77	
For Solid Bottom, Add	57.42	
For Vented Trough Bottom, Add	64.44	
26 05 36 00-2576 EA 18" Vertical Tee, Fiberglass Cable Tray .....	295.21	121.06
For 9" Rung Spacing, Add	3.98	
For 6" Rung Spacing, Add	17.05	
For 4" Rung Spacing, Add	31.26	
For 18" Rung Spacing, Deduct	-2.84	
For Solid Bottom, Add	61.34	
For Vented Trough Bottom, Add	68.17	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 36 Cable Trays for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2577 EA 24" Vertical Tee, Fiberglass Cable Tray .....	305.75	126.13
For 9" Rung Spacing, Add	4.08	
For 6" Rung Spacing, Add	17.48	
For 4" Rung Spacing, Add	32.05	
For 18" Rung Spacing, Deduct	-2.91	
For Solid Bottom, Add	63.35	
For Vented Trough Bottom, Add	70.27	
26 05 36 00-2578 EA 30" Vertical Tee, Fiberglass Cable Tray .....	319.17	133.36
For 9" Rung Spacing, Add	4.17	
For 6" Rung Spacing, Add	17.88	
For 4" Rung Spacing, Add	32.78	
For 18" Rung Spacing, Deduct	-2.98	
For Solid Bottom, Add	65.76	
For Vented Trough Bottom, Add	72.68	
26 05 36 00-2579 EA 36" Vertical Tee, Fiberglass Cable Tray .....	347.06	143.67
For 9" Rung Spacing, Add	4.61	
For 6" Rung Spacing, Add	19.76	
For 4" Rung Spacing, Add	36.22	
For 18" Rung Spacing, Deduct	-3.29	
For Solid Bottom, Add	71.81	
For Vented Trough Bottom, Add	79.60	
<b>26 05 36 00-2580 Flextray™ Cable Tray (26 05 36 00-0001)</b>		
<b>26 05 36 00-2581 Flextray™ Cable Tray Straight Sections (26 05 36 00-2580)</b>		
Note: Includes splicing and splice bars.		
26 05 36 00-2582 LF 2" Deep x 2" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	36.66	9.69
26 05 36 00-2583 LF 2" Deep x 4" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	47.29	10.34
26 05 36 00-2584 LF 2" Deep x 6" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	49.73	10.80
26 05 36 00-2585 LF 2" Deep x 8" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	52.27	11.35
26 05 36 00-2586 LF 2" Deep x 12" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	56.16	11.90
26 05 36 00-2587 LF 2" Deep x 16" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	60.54	12.46
26 05 36 00-2588 LF 2" Deep x 18" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	61.73	13.01
26 05 36 00-2589 LF 2" Deep x 20" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	64.19	13.38
26 05 36 00-2590 LF 2" Deep x 24" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	65.50	13.75
26 05 36 00-2591 LF 4" Deep x 4" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	48.95	11.38
26 05 36 00-2592 LF 4" Deep x 6" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	53.62	11.84
26 05 36 00-2593 LF 4" Deep x 8" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	58.43	12.46
26 05 36 00-2594 LF 4" Deep x 12" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	62.14	13.07
26 05 36 00-2595 LF 4" Deep x 16" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	66.28	13.69
26 05 36 00-2596 LF 4" Deep x 18" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	71.94	14.30
26 05 36 00-2597 LF 4" Deep x 20" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	76.44	14.77
26 05 36 00-2598 LF 4" Deep x 24" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	79.66	15.08
26 05 36 00-2599 LF 4" Deep x 30" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	103.43	16.15
26 05 36 00-2600 LF 6" Deep x 8" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	65.06	13.69
26 05 36 00-2601 LF 6" Deep x 12" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	74.75	14.30
26 05 36 00-2602 LF 6" Deep x 16" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	78.21	14.92
26 05 36 00-2603 LF 6" Deep x 18" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	84.63	15.69
26 05 36 00-2604 LF 6" Deep x 20" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	87.42	16.00
26 05 36 00-2605 LF 6" Deep x 24" Wide Flextray™ Cable, Electroplated Zinc Galvanized Finish .....	109.16	16.46
<b>26 05 36 00-2606 Flextray™ Cable Tray Bends (26 05 36 00-2580)</b>		
Note: Includes field fabricated bend and 90 degree kit.		
26 05 36 00-2607 EA 2" Deep x 2" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	27.53	7.23
Note: Field Fabricated		
26 05 36 00-2608 EA 2" Deep x 4" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	35.48	7.69
Note: Field Fabricated		
26 05 36 00-2609 EA 2" Deep x 6" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	49.73	10.77
Note: Field Fabricated		
26 05 36 00-2610 EA 2" Deep x 8" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	78.48	17.07
Note: Field Fabricated		
26 05 36 00-2611 EA 2" Deep x 12" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	112.32	23.84
Note: Field Fabricated		
26 05 36 00-2612 EA 2" Deep x 16" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	151.39	31.22
Note: Field Fabricated		
26 05 36 00-2613 EA 2" Deep x 18" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	171.20	39.07
Note: Field Fabricated		
26 05 36 00-2614 EA 2" Deep x 20" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	203.76	46.91
Note: Field Fabricated		
26 05 36 00-2615 EA 2" Deep x 24" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	262.04	55.07
Note: Field Fabricated		
26 05 36 00-2616 EA 4" Deep x 4" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	36.65	8.46
Note: Field Fabricated		
26 05 36 00-2617 EA 4" Deep x 6" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	53.67	11.84
Note: Field Fabricated		
26 05 36 00-2618 EA 4" Deep x 8" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	87.61	18.76
Note: Field Fabricated		
26 05 36 00-2619 EA 4" Deep x 12" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	124.31	26.15
Note: Field Fabricated		
26 05 36 00-2620 EA 4" Deep x 16" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish .....	165.64	34.30
Note: Field Fabricated		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 36 00-2621 EA 4" Deep x 18" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	198.98	42.91
Note: Field Fabricated		
26 05 36 00-2622 EA 4" Deep x 20" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	241.51	51.53
Note: Field Fabricated		
26 05 36 00-2623 EA 4" Deep x 24" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	318.65	60.46
Note: Field Fabricated		
26 05 36 00-2624 EA 4" Deep x 30" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	517.29	80.76
Note: Field Fabricated		
26 05 36 00-2625 EA 6" Deep x 8" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	97.51	20.46
Note: Field Fabricated		
26 05 36 00-2626 EA 6" Deep x 12" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	149.56	28.61
Note: Field Fabricated		
26 05 36 00-2627 EA 6" Deep x 16" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	195.53	37.38
Note: Field Fabricated		
26 05 36 00-2628 EA 6" Deep x 18" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	233.44	46.91
Note: Field Fabricated		
26 05 36 00-2629 EA 6" Deep x 20" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	275.63	56.15
Note: Field Fabricated		
26 05 36 00-2630 EA 6" Deep x 24" Wide Flextray™ Cable Bend, Electroplated Zinc Galvanized Finish.....	436.56	65.99
Note: Field Fabricated		
<b>26 05 36 00-2631 Flextray™ Cable Tray Brackets</b> (26 05 36 00-2580)		
26 05 36 00-2632 EA 6" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™.....	67.19	20.31
26 05 36 00-2633 EA 8" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™.....	72.69	20.31
26 05 36 00-2634 EA 12" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™.....	82.08	20.31
26 05 36 00-2635 EA 16" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™.....	102.26	22.15
26 05 36 00-2636 EA 18" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™.....	110.46	22.15
26 05 36 00-2637 EA 20" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™.....	113.21	22.15
26 05 36 00-2638 EA 24" Shelf Bracket, Electroplated Zinc Galvanized Finish, Flextray™.....	115.64	22.15
<b>26 05 39 Underfloor Raceways for Electrical Systems</b> (26 05)		
<b>26 05 39 00-0001 Underfloor Ducts</b> (26 05 39)		
<b>26 05 39 00-0002 Straight Duct Sections 10' Long, 14 Gauge Steel</b> (26 05 39 00-0001)		
<b>26 05 39 00-0003 Standard Ducts, 3.8 Square Inches</b> (26 05 39 00-0002)		
26 05 39 00-0004 EA Standard Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 3.8 Square Inches.....	120.74	27.08
26 05 39 00-0005 EA Standard Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 3.8 Square Inches.....	151.18	31.69
<b>26 05 39 00-0006 Large Capacity Ducts, 8.9 Square Inches</b> (26 05 39 00-0002)		
26 05 39 00-0007 EA Large Capacity Underfloor Straight Duct Blank Without Inserts, 10' Long, 14 Gauge, 8.9 Square Inches.....	197.42	34.30
26 05 39 00-0008 EA Large Capacity Underfloor Straight Duct With 7/8" Inserts On 24" Centers, 10' Long, 14 Gauge, 8.9 Square Inches.....	225.64	38.00
<b>26 05 39 00-0009 Junction Boxes</b> (26 05 39 00-0001)		
<b>26 05 39 00-0010 One Level Junction Boxes</b> (26 05 39 00-0009)		
26 05 39 00-0011 EA 1 Level UF Duct Junction Box, 1 Standard Duct Without Partitions In Box.....	301.49	53.83
26 05 39 00-0012 EA 1 Level UF Duct Junction Box, 1 Large Duct Without Partitions In Box.....	340.15	57.68
26 05 39 00-0013 EA 1 Level UF Duct Junction Box, 1 Standard And Large Duct Per Side With Partitions In Box.....	533.64	53.83
Note: Isolate each duct and form a continuous raceway through the box in both directions.		
26 05 39 00-0014 EA 1 Level UF Duct Junction Box, 2 Standard Ducts Per Side With Partitions In Box.....	370.43	57.68
26 05 39 00-0015 EA 1 Level UF Duct Junction Box, 3 Standard Ducts Per Side With Partitions In Box.....	582.50	75.83
26 05 39 00-0016 EA 1 Level UF Duct Junction Box, 2 Large Ducts Per Side With Partitions In Box Duct.....	808.93	82.44
<b>26 05 39 00-0017 Two Level Junction Boxes</b> (26 05 39 00-0009)		
26 05 39 00-0018 EA 2 Level UF Duct Junction Box, 2 Standard Duct Cross, Intersects At Right Angles, Raceway Bottom Level.....	1,207.73	54.46
Note: Accepts two standard ducts to form a continuous raceway at right angles to the top level raceway.		
26 05 39 00-0019 EA 2 Level UF Duct Junction Box, 2 Large Duct Bottom Level: Accepts Two Large Capacity Ducts.....	1,387.88	57.68
<b>26 05 39 00-0020 Elbow Fittings</b> (26 05 39 00-0001)		
<b>26 05 39 00-0021 90 Degree Horizontal Elbow</b> (26 05 39 00-0020)		
26 05 39 00-0022 EA Underfloor Standard Duct Horizontal Elbow Fitting, 90 Degree.....	144.99	19.84
26 05 39 00-0023 EA Underfloor Large Duct Horizontal Elbow Fitting, 90 Degree.....	149.14	19.84
<b>26 05 39 00-0024 90 Degree Vertical Elbow</b> (26 05 39 00-0020)		
26 05 39 00-0025 EA Underfloor Standard Duct Vertical Elbow Fitting, 90 Degree.....	84.43	19.84
26 05 39 00-0026 EA Underfloor Large Duct Vertical Elbow Fitting, 90 Degree.....	86.09	19.84
<b>26 05 39 00-0027 Offset Elbow</b> (26 05 39 00-0020)		
Note: Two elbows required for crossover or crossunder.		
26 05 39 00-0028 EA Underfloor Standard Duct Offset Elbow 45 Degree, 2 Required For Over-Under.....	84.43	23.07

**26 Electrical****26 05 Common Work Results for Electrical****26 05 39 Underfloor Raceways for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 39 00-0029 EA Underfloor Large Duct Offset Elbow 45 Degree, 2 Required For Over-Under .....	86.09	23.07
<b>26 05 39 00-0030 Couplings</b> (26 05 39 00-0001)		
<b>26 05 39 00-0031 Sleeve Couplings</b> (26 05 39 00-0030)		
26 05 39 00-0032 EA Underfloor Standard Duct Sleeve Coupling .....	57.56	30.76
26 05 39 00-0033 EA Underfloor Large Duct Sleeve Coupling.....	90.63	30.76
<b>26 05 39 00-0034 Expansion Couplings</b> (26 05 39 00-0030)		
26 05 39 00-0035 EA Underfloor Standard Duct Expansion Coupling .....	122.49	30.76
26 05 39 00-0036 EA Underfloor Large Duct Expansion Coupling.....	124.57	32.46
<b>26 05 39 00-0037 Reducing Couplings</b> (26 05 39 00-0030)		
26 05 39 00-0038 EA Reducing Coupling, Large To Standard Duct Underfloor Duct Coupling .....	108.14	4.62
<b>26 05 39 00-0039 Duct Supports</b> (26 05 39 00-0001)		
<b>26 05 39 00-0040 Combination Support And Coupling</b> (26 05 39 00-0039)		
Note: Includes leveling legs and anchoring feet.		
26 05 39 00-0041 EA 1 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....	132.64	64.60
26 05 39 00-0042 EA 2 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....	148.37	64.60
26 05 39 00-0043 EA 3 Standard Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....	164.22	64.60
26 05 39 00-0044 EA 1 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....	148.37	72.30
26 05 39 00-0045 EA 2 Large Duct Support And Coupling With Legs With Leveling Legs And Anchor Feet .....	180.42	72.30
26 05 39 00-0046 EA 1 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet.....	164.22	76.91
26 05 39 00-0047 EA 2 Standard And 1 Large Duct Support And Coupling With Leveling Legs And Anchor Feet.....	164.22	76.91
26 05 39 00-0048 EA 1 Standard And 2 Large Duct Support And Coupling With Leveling Legs And Anchor Feet.....	180.42	76.91
<b>26 05 39 00-0049 Duct Support Only</b> (26 05 39 00-0039)		
Note: Includes leveling legs and anchoring feet.		
26 05 39 00-0050 EA 1 Underfloor Duct Support Only With Leveling Legs And Anchor Feet.....	118.69	56.91
26 05 39 00-0051 EA 2 Underfloor Duct Support Only With Leveling Legs And Anchor Feet.....	139.47	56.91
26 05 39 00-0052 EA 3 Underfloor Duct Support Only With Leveling Legs And Anchor Feet.....	161.55	56.91
<b>26 05 39 00-0053 Underfloor Duct Accessories</b> (26 05 39 00-0001)		
<b>26 05 39 00-0054 Plugs For Unused Junction Box Openings And Duct Ends</b> (26 05 39 00-0053)		
26 05 39 00-0055 EA Standard Plugs For Unused Junction Box Opening And Underfloor Duct Ends .....	29.54	4.62
26 05 39 00-0056 EA Large Plugs For Unused Junction Box Opening And Underfloor Duct Ends.....	30.35	4.62
<b>26 05 39 00-0057 Conduit Adapters</b> (26 05 39 00-0053)		
26 05 39 00-0058 EA One 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter .....	43.10	7.69
26 05 39 00-0059 EA Two 1-1/4" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter .....	45.94	7.69
26 05 39 00-0060 EA One 2" Conduit To Standard Duct Underfloor Conduit To Duct, Adapter .....	44.69	7.69
26 05 39 00-0061 EA Three 1-1/4" Conduit To Large Duct Underfloor Conduit To Duct, Adapter.....	46.31	7.69
<b>26 05 39 00-0062 Holders And Caps</b> (26 05 39 00-0053)		
26 05 39 00-0063 EA Tile Holder, Underfloor Duct Accessories .....	286.82	64.60
26 05 39 00-0064 EA Terrazzo Holder, Underfloor Duct Accessories .....	526.74	64.60
26 05 39 00-0065 EA Closing Caps For Inserts, Underfloor Duct Accessories .....	3.82	1.54
<b>26 05 39 00-0066 Underfloor Dust Pans</b> (26 05 39 00-0001)		
26 05 39 00-0067 EA Underfloor Dust Carpet Pan.....	117.49	8.44

**26 05 43 Underground Ducts and Raceways for Electrical Systems** (26 05)

Note: Includes warning tape. See CSI section 33 71 19 23-0000 for underground trenched ductbank.

<b>26 05 43 00-0001 Precast Concrete Trenches, One Piece Pedestrian Trench</b> (26 05 43)		
Note: Rated for 200 PSF Pedestrian Weight. Excludes excavation, removal of dirt and sand bedding.		
<b>26 05 43 00-0002 10" Wide Pedestrian Trench</b> (26 05 43 00-0001)		
26 05 43 00-0003 LF Base, Solid Bottom 10" Wide x 15" Deep Pedestrian Trench .....	87.63	
26 05 43 00-0004 LF Base, Open Bottom 10" Wide x 15" Deep Pedestrian Trench .....	83.74	
26 05 43 00-0005 LF Base, Solid Bottom 10" Wide x 24" Deep Pedestrian Trench .....	121.71	
26 05 43 00-0006 LF Base, Open Bottom 10" Wide x 24" Deep Pedestrian Trench .....	116.31	
26 05 43 00-0007 EA End Wall, 10" Wide x 15" Deep Pedestrian Trench .....	58.84	
26 05 43 00-0008 EA End Wall, 10" Wide x 24" Deep Pedestrian Trench .....	69.44	
26 05 43 00-0009 LF Lid, Concrete, 10" Wide Pedestrian Trench.....	58.42	
<b>26 05 43 00-0010 20" Wide Pedestrian Trench</b> (26 05 43 00-0001)		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 43 00-0011 LF Base, Solid Bottom 20" Wide x 15" Deep Pedestrian Trench .....	110.91	
26 05 43 00-0012 LF Base, Open Bottom 20" Wide x 15" Deep Pedestrian Trench .....	104.04	
26 05 43 00-0013 LF Base, Solid Bottom 20" Wide x 24" Deep Pedestrian Trench .....	150.11	
26 05 43 00-0014 LF Base, Open Bottom 20" Wide x 24" Deep Pedestrian Trench .....	143.85	
26 05 43 00-0015 EA End Wall, 20" Wide x 15" Deep Pedestrian Trench .....	73.42	
26 05 43 00-0016 EA End Wall, 20" Wide x 24" Deep Pedestrian Trench .....	107.03	
26 05 43 00-0017 LF Lid, Concrete, 20" Wide Pedestrian Trench .....	73.06	
<b>26 05 43 00-0018 30" Wide Pedestrian Trench</b> <small>(26 05 43 00-0001)</small>		
26 05 43 00-0019 LF Base, Solid Bottom 30" Wide x 15" Deep Pedestrian Trench .....	141.22	
26 05 43 00-0020 LF Base, Open Bottom 30" Wide x 15" Deep Pedestrian Trench .....	166.40	
26 05 43 00-0021 LF Base, Solid Bottom 30" Wide x 24" Deep Pedestrian Trench .....	176.79	
26 05 43 00-0022 LF Base, Open Bottom 30" Wide x 24" Deep Pedestrian Trench .....	169.66	
26 05 43 00-0023 EA End Wall, 30" Wide x 15" Deep Pedestrian Trench .....	105.23	
26 05 43 00-0024 EA End Wall, 30" Wide x 24" Deep Pedestrian Trench .....	143.16	
26 05 43 00-0025 LF Lid, Concrete, 30" Wide Pedestrian Trench .....	91.26	
<b>26 05 43 00-0026 40" Wide Pedestrian Trench</b> <small>(26 05 43 00-0001)</small>		
26 05 43 00-0027 LF Base, Solid Bottom 40" Wide x 15" Deep Pedestrian Trench .....	168.95	
26 05 43 00-0028 LF Base, Open Bottom 40" Wide x 15" Deep Pedestrian Trench .....	162.46	
26 05 43 00-0029 LF Base, Solid Bottom 40" Wide x 24" Deep Pedestrian Trench .....	206.76	
26 05 43 00-0030 LF Base, Open Bottom 40" Wide x 24" Deep Pedestrian Trench .....	198.82	
26 05 43 00-0031 EA End Wall, 40" Wide x 15" Deep Pedestrian Trench .....	134.70	
26 05 43 00-0032 EA End Wall, 40" Wide x 24" Deep Pedestrian Trench .....	183.02	
26 05 43 00-0033 LF Lid, Concrete, 40" Wide Pedestrian Trench .....	107.77	
<b>26 05 43 00-0034 Precast Concrete Trenches, One Piece Medium Vehicle Trench</b> <small>(26 05 43)</small>		
<small>Note: Rated for 7000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.</small>		
<b>26 05 43 00-0035 10" Wide Medium Vehicle Trench</b> <small>(26 05 43 00-0034)</small>		
26 05 43 00-0036 LF Base, Solid Bottom 10" Wide x 15" Deep Medium Vehicle Trench .....	106.71	
26 05 43 00-0037 LF Base, Open Bottom 10" Wide x 15" Deep Medium Vehicle Trench .....	101.67	
26 05 43 00-0038 LF Base, Solid Bottom 10" Wide x 24" Deep Medium Vehicle Trench .....	148.18	
26 05 43 00-0039 LF Base Open Bottom 10" Wide x 24" Deep Medium Vehicle Trench .....	141.21	
26 05 43 00-0040 EA End Wall, 10" Wide x 15" Deep Medium Vehicle Trench .....	69.44	
26 05 43 00-0041 EA End Wall, 10" Wide x 24" Deep Medium Vehicle Trench .....	80.55	
26 05 43 00-0042 LF Lid, Concrete 10" Wide Medium Vehicle Trench .....	71.14	
26 05 43 00-0043 LF Lid, Galvanized Steel 10" Wide Medium Vehicle Trench .....	319.85	
<b>26 05 43 00-0044 20" Wide Medium Vehicle Trench</b> <small>(26 05 43 00-0034)</small>		
26 05 43 00-0045 LF Base, Solid Bottom 20" Wide x 15" Deep Medium Vehicle Trench .....	134.21	
26 05 43 00-0046 LF Base, Open Bottom 20" Wide x 15" Deep Medium Vehicle Trench .....	125.34	
26 05 43 00-0047 LF Base, Solid Bottom 20" Wide x 24" Deep Medium Vehicle Trench .....	180.82	
26 05 43 00-0048 LF Base Open Bottom 20" Wide x 24" Deep Medium Vehicle Trench .....	172.73	
26 05 43 00-0049 EA End Wall, 20" Wide x 15" Deep Medium Vehicle Trench .....	85.69	
26 05 43 00-0050 EA End Wall, 20" Wide x 24" Deep Medium Vehicle Trench .....	125.08	
26 05 43 00-0051 LF Lid, Concrete 20" Wide Medium Vehicle Trench .....	88.96	
26 05 43 00-0052 LF Lid, Galvanized Steel 20" Wide Medium Vehicle Trench .....	424.23	
<b>26 05 43 00-0053 30" Wide Medium Vehicle Trench</b> <small>(26 05 43 00-0034)</small>		
26 05 43 00-0054 LF Base, Solid Bottom 30" Wide x 15" Deep Medium Vehicle Trench .....	134.14	
26 05 43 00-0055 LF Base, Open Bottom 30" Wide x 15" Deep Medium Vehicle Trench .....	161.49	
26 05 43 00-0056 LF Base, Solid Bottom 30" Wide x 24" Deep Medium Vehicle Trench .....	211.75	
26 05 43 00-0057 LF Base Open Bottom 30" Wide x 24" Deep Medium Vehicle Trench .....	202.53	
26 05 43 00-0058 EA End Wall, 30" Wide x 15" Deep Medium Vehicle Trench .....	122.17	
26 05 43 00-0059 EA End Wall, 30" Wide x 24" Deep Medium Vehicle Trench .....	168.22	
26 05 43 00-0060 LF Lid, Concrete 30" Wide Medium Vehicle Trench .....	111.40	
26 05 43 00-0061 LF Lid, Galvanized Steel 30" Wide Medium Vehicle Trench .....	529.63	
<b>26 05 43 00-0062 40" Wide Medium Vehicle Trench</b> <small>(26 05 43 00-0034)</small>		
26 05 43 00-0063 LF Base, Solid Bottom 40" Wide x 15" Deep Medium Vehicle Trench .....	200.72	
26 05 43 00-0064 LF Base, Open Bottom 40" Wide x 15" Deep Medium Vehicle Trench .....	192.34	
26 05 43 00-0065 LF Base, Solid Bottom 40" Wide x 24" Deep Medium Vehicle Trench .....	245.73	
26 05 43 00-0066 LF Base Open Bottom 40" Wide x 24" Deep Medium Vehicle Trench .....	235.45	
26 05 43 00-0067 EA End Wall, 40" Wide x 15" Deep Medium Vehicle Trench .....	156.39	
26 05 43 00-0068 EA End Wall, 40" Wide x 24" Deep Medium Vehicle Trench .....	215.02	
26 05 43 00-0069 LF Lid, Concrete 40" Wide Medium Vehicle Trench .....	131.07	
26 05 43 00-0070 LF Lid, Galvanized Steel 40" Wide Medium Vehicle Trench .....	720.21	
<b>26 05 43 00-0071 Precast Concrete Trenches, One Piece H20 Road Crossing Trench</b> <small>(26 05 43)</small>		
<small>Note: H20 Rated for 32000 lbs Gross Vehicle Weight. Excludes excavation, removal of dirt and sand bedding.</small>		
<b>26 05 43 00-0072 10" Wide H20 Road Crossing Trench</b> <small>(26 05 43 00-0071)</small>		
26 05 43 00-0073 LF Base, Solid Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench .....	232.52	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 43 Underground Ducts and Raceways for Electrical Systems**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 05 43 00-0074	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench .....	221.21	
26 05 43 00-0075	LF	Base, Solid Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench .....	290.28	
26 05 43 00-0076	LF	Base, Open Bottom for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench .....	276.02	
26 05 43 00-0077	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	223.21	
26 05 43 00-0078	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	212.44	
26 05 43 00-0079	LF	Base, Solid Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench .....	280.96	
26 05 43 00-0080	LF	Base, Open Bottom for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	267.28	
26 05 43 00-0081	EA	End Wall for Concrete Lid, 10" Wide x 16" Deep Road Crossing Trench .....	153.30	
26 05 43 00-0082	EA	End Wall for Concrete Lid, 10" Wide x 24" Deep Road Crossing Trench .....	207.46	
26 05 43 00-0083	EA	End Wall for Galvanized Steel Lid, 10" Wide x 16" Deep Road Crossing Trench.....	138.52	
26 05 43 00-0084	EA	End Wall for Galvanized Steel Lid, 10" Wide x 24" Deep Road Crossing Trench.....	192.36	
26 05 43 00-0085	LF	Lid, Concrete 10" Wide Road Crossing Trench .....	107.03	
26 05 43 00-0086	LF	Lid, Galvanized Steel 10" Wide Road Crossing Trench.....	347.16	

**26 05 43 00-0087 20" Wide H20 Road Crossing Trench (26 05 43 00-0071)**

26 05 43 00-0088	LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench .....	246.04	
26 05 43 00-0089	LF	Base, Open Bottom for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench .....	234.44	
26 05 43 00-0090	LF	Base, Solid Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench .....	325.27	
26 05 43 00-0091	LF	Base, Open Bottom for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench .....	309.75	
26 05 43 00-0092	LF	Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench.....	246.04	
26 05 43 00-0093	LF	Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench .....	234.44	
26 05 43 00-0094	LF	Base, Solid Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	315.95	
26 05 43 00-0095	LF	Base, Open Bottom for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	301.01	
26 05 43 00-0096	EA	End Wall for Concrete Lid, 20" Wide x 16" Deep Road Crossing Trench .....	219.02	
26 05 43 00-0097	EA	End Wall for Concrete Lid, 20" Wide x 24" Deep Road Crossing Trench .....	297.93	
26 05 43 00-0098	EA	End Wall for Galvanized Steel Lid, 20" Wide x 16" Deep Road Crossing Trench .....	197.50	
26 05 43 00-0099	EA	End Wall for Galvanized Steel Lid, 20" Wide x 24" Deep Road Crossing Trench.....	276.40	
26 05 43 00-0100	LF	Lid, Concrete 20" Wide Road Crossing Trench .....	119.22	
26 05 43 00-0101	LF	Lid, Galvanized Steel 20" Wide Road Crossing Trench.....	515.15	

**26 05 43 00-0102 30" Wide H20 Road Crossing Trench (26 05 43 00-0071)**

26 05 43 00-0103	LF	Base, Solid Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench .....	289.90	
26 05 43 00-0104	LF	Base, Open Bottom for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench .....	276.63	
26 05 43 00-0105	LF	Base, Solid Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench .....	358.51	
26 05 43 00-0106	LF	Base, Open Bottom for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench .....	342.02	
26 05 43 00-0107	LF	Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	280.58	
26 05 43 00-0108	LF	Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	267.86	
26 05 43 00-0109	LF	Base, Solid Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	349.19	
26 05 43 00-0110	LF	Base, Open Bottom for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench .....	332.96	
26 05 43 00-0111	EA	End Wall for Concrete Lid, 30" Wide x 16" Deep Road Crossing Trench .....	291.80	
26 05 43 00-0112	EA	End Wall for Concrete Lid, 30" Wide x 24" Deep Road Crossing Trench .....	386.68	
26 05 43 00-0113	EA	End Wall for Galvanized Steel Lid, 30" Wide x 16" Deep Road Crossing Trench.....	263.52	
26 05 43 00-0114	EA	End Wall for Galvanized Steel Lid, 30" Wide x 24" Deep Road Crossing Trench.....	358.41	
26 05 43 00-0115	LF	Lid, Concrete 30" Wide Road Crossing Trench .....	150.98	
26 05 43 00-0116	LF	Lid, Galvanized Steel 30" Wide Road Crossing Trench.....	646.03	

**26 05 43 00-0117 40" Wide H20 Road Crossing Trench (26 05 43 00-0071)**

26 05 43 00-0118	LF	Base, Solid Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench .....	319.53	
26 05 43 00-0119	LF	Base, Open Bottom for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench .....	305.27	
26 05 43 00-0120	LF	Base, Solid Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench .....	393.42	
26 05 43 00-0121	LF	Base, Open Bottom for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench .....	375.52	
26 05 43 00-0122	LF	Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	310.21	
26 05 43 00-0123	LF	Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench .....	296.53	
26 05 43 00-0124	LF	Base, Solid Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	384.10	
26 05 43 00-0125	LF	Base, Open Bottom for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	366.75	
26 05 43 00-0126	EA	End Wall for Concrete Lid, 40" Wide x 16" Deep Road Crossing Trench .....	362.00	
26 05 43 00-0127	EA	End Wall for Concrete Lid, 40" Wide x 24" Deep Road Crossing Trench .....	479.42	
26 05 43 00-0128	EA	End Wall for Galvanized Steel Lid, 40" Wide x 16" Deep Road Crossing Trench.....	327.30	
26 05 43 00-0129	EA	End Wall for Galvanized Steel Lid, 40" Wide x 24" Deep Road Crossing Trench.....	444.73	
26 05 43 00-0130	LF	Lid, Concrete 40" Wide Road Crossing Trench .....	182.31	
26 05 43 00-0131	LF	Lid, Galvanized Steel 40" Wide Road Crossing Trench.....	878.59	

**26 05 46 Utility Poles for Electrical Systems (26 05)**

26 05 46 00-0001 Wood Poles (26 05 46)

26 05 46 00-0002 Wood Pole, Class 3, Penta-Treated To 8 LB Retention (26 05 46 00-0001)

Note: Machine dig and set.

26 05 46 00-0003	EA	25' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,124.13	392.96
		For Class 1 Pole, Add	118.32	
		For Class 2 Pole, Add	67.61	
		For Class 4 Pole, Deduct	-33.81	
		For Class 5 Pole, Deduct	-101.42	
		For Class 6 Pole, Deduct	-135.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0004 EA 30' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,331.03	436.00
For Class 1 Pole, Add	160.65	
For Class 2 Pole, Add	91.80	
For Class 4 Pole, Deduct	-45.90	
For Class 5 Pole, Deduct	-137.70	
For Class 6 Pole, Deduct	-183.60	
26 05 46 00-0005 EA 35' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,730.29	576.64
For Class 1 Pole, Add	202.01	
For Class 2 Pole, Add	115.43	
For Class 4 Pole, Deduct	-57.72	
For Class 5 Pole, Deduct	-173.15	
For Class 6 Pole, Deduct	-230.87	
26 05 46 00-0006 EA 40' Treated Wood Pole, Class 3, Machine Dig And Set.....	1,969.28	634.24
For Class 1 Pole, Add	245.30	
For Class 2 Pole, Add	140.17	
For Class 4 Pole, Deduct	-70.09	
For Class 5 Pole, Deduct	-210.26	
For Class 6 Pole, Deduct	-280.34	
26 05 46 00-0007 EA 45' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,242.97	706.40
For Class 1 Pole, Add	290.51	
For Class 2 Pole, Add	166.01	
For Class 4 Pole, Deduct	-83.00	
For Class 5 Pole, Deduct	-249.01	
For Class 6 Pole, Deduct	-332.01	
26 05 46 00-0008 EA 50' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,547.49	792.80
For Class 1 Pole, Add	336.68	
For Class 2 Pole, Add	192.39	
For Class 4 Pole, Deduct	-96.20	
For Class 5 Pole, Deduct	-288.59	
For Class 6 Pole, Deduct	-384.78	
26 05 46 00-0009 EA 55' Treated Wood Pole, Class 3, Machine Dig And Set.....	2,843.47	872.00
For Class 1 Pole, Add	384.78	
For Class 2 Pole, Add	219.87	
For Class 4 Pole, Deduct	-109.94	
For Class 5 Pole, Deduct	-329.81	
For Class 6 Pole, Deduct	-439.75	
26 05 46 00-0010 EA 60' Treated Wood Pole, Class 3, Machine Dig And Set.....	3,171.20	958.89
For Class 1 Pole, Add	438.65	
For Class 2 Pole, Add	250.66	
For Class 4 Pole, Deduct	-125.33	
For Class 5 Pole, Deduct	-375.99	
For Class 6 Pole, Deduct	-501.32	
26 05 46 00-0011 EA 65' Treated Wood Pole, Class 3, Machine Dig And Set.....	4,978.10	1,045.12
For Class 1 Pole, Add	1,010.73	
For Class 2 Pole, Add	577.56	
For Class 4 Pole, Deduct	-288.78	
For Class 5 Pole, Deduct	-866.34	
For Class 6 Pole, Deduct	-1,155.12	
26 05 46 00-0012 EA 70' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,451.99	1,111.76
For Class 1 Pole, Add	1,129.95	
For Class 2 Pole, Add	645.69	
For Class 4 Pole, Deduct	-322.84	
For Class 5 Pole, Deduct	-968.53	
For Class 6 Pole, Deduct	-1,291.38	
26 05 46 00-0013 EA 75' Treated Wood Pole, Class 3, Machine Dig And Set.....	5,978.87	1,187.43
For Class 1 Pole, Add	1,261.38	
For Class 2 Pole, Add	720.79	
For Class 4 Pole, Deduct	-360.39	
For Class 5 Pole, Deduct	-1,081.18	
For Class 6 Pole, Deduct	-1,441.57	
<b>26 05 46 00-0014 Removal And Relocation Of Wood Poles With Cross Arm</b> (26 05 46 00-0001)		
26 05 46 00-0015 LF Removal And Relocation Of Up To 75' Wood Pole With Cross Arms.....	33.48	
<b>26 05 46 00-0016 Crossarms</b> (26 05 46)		
Note: Includes hardware and braces.		
<b>26 05 46 00-0017 Wood Single Arm Crossarms</b> (26 05 46 00-0016)		
26 05 46 00-0018 EA 3-1/2" x 4-1/2" x 5'-7", Single Arm Wood Crossarm, With Hardware And Braces.....	276.95	117.21
26 05 46 00-0019 EA 3-1/2" x 4-1/2" x 8'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	335.81	117.21
26 05 46 00-0020 EA 3-3/4" x 4-3/4" x 10'-0", Single Arm Wood Crossarm, With Hardware And Braces.....	353.10	150.69
<b>26 05 46 00-0021 Wood Double Arm Crossarms</b> (26 05 46 00-0016)		
26 05 46 00-0022 EA 3-1/2" x 4-1/2" x 5'-7", Double Arm Wood Crossarm, With Hardware And Braces.....	716.79	326.49
26 05 46 00-0023 EA 3-1/2" x 4-1/2" x 8'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	762.24	326.49
26 05 46 00-0024 EA 3-3/4" x 4-3/4" x 10'-0", Double Arm Wood Crossarm, With Hardware And Braces.....	794.51	326.49
<b>26 05 46 00-0025 Fiberglass Crossarms</b> (26 05 46 00-0016)		
Note: Includes hardware.		
<b>26 05 46 00-0026 Single Phase, 15 Degree Angle</b> (26 05 46 00-0025)		

**26 Electrical**  
**26 05 Common Work Results for Electrical**  
**26 05 46 Utility Poles for Electrical Systems**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0027 EA Fiberglass Cutout And Arrestor Bracket, 18", Minimum Ultimate Load 800 LB.....	289.91	
26 05 46 00-0028 EA Fiberglass Insulator Bracket, 14", 11/16" Diameter Hole, Minimum Ultimate Load 1,200 LB .....	371.17	70.32
26 05 46 00-0029 EA Fiberglass Insulator Bracket, 14", 1" Lead Threaded, Minimum Ultimate Load 1,200 LB .....	387.93	75.35
<b>26 05 46 00-0030 Two Phase, 15 Degree Angle (26 05 46 00-0025)</b>		
26 05 46 00-0031 EA Fiberglass Insulator Bracket, 36", Minimum Ultimate Load 1,200 LB .....	464.68	90.42
<b>26 05 46 00-0032 Fiberglass Crossarm Accessories (26 05 46 00-0025)</b>		
26 05 46 00-0033 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 7,000 LB Per Conductor .....	741.86	115.53
26 05 46 00-0034 EA Fiberglass Deadend Crossarm, 36", Minimum Ultimate Load 12,000 LB Per Conductor .....	881.42	140.64
26 05 46 00-0035 EA Pole Top Pin, Hot Dip Galvanized, 18", 1" Lead Threaded.....	129.01	20.09
26 05 46 00-0036 EA Three Phase Equipment Mounting Bracket .....	645.09	100.46
26 05 46 00-0037 EA Fiberglass Bull Horn Crossarm .....	521.00	167.43
<b>26 05 46 00-0038 Insulator Support System (26 05 46 00-0016)</b>		
<b>26 05 46 00-0039 Epoxy Construction Units, In Place Mounting (26 05 46 00-0038)</b>		
Note: Includes hardware.		
26 05 46 00-0040 EA 1-1/2" Diameter x 19" Long Pole Side Pins Vertical (1 Arm Installed), In Place Mounting.....	156.63	
26 05 46 00-0041 EA 1-1/2" Diameter x 15" Long Pole Top Pins, In Place Mounting .....	125.31	
26 05 46 00-0042 EA Deadend Arms, In Place Mounting .....	340.30	
26 05 46 00-0043 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical (2 Arms Installed), In Place Mounting .....	245.59	
<b>26 05 46 00-0044 Epoxy Construction Units, Grounding Mounting (26 05 46 00-0038)</b>		
Note: Includes hardware.		
26 05 46 00-0045 EA 1-1/2" Diameter x 18" Long Pole Side Pins Vertical, Grounding Mounting .....	108.17	
26 05 46 00-0046 EA 1-1/2" Diameter x 15" Long Pole Top Pins, Grounding Mounting .....	93.01	
26 05 46 00-0047 EA Deadend Arms, Grounding Mounting.....	308.00	
<b>26 05 46 00-0048 Guying (26 05 46)</b>		
Note: Includes cable, anchor and rod assembly, guy marker.		
<b>26 05 46 00-0049 Down Guy (26 05 46 00-0048)</b>		
26 05 46 00-0050 EA Down Guy For 25' To 40' Pole .....	1,144.26	468.82
26 05 46 00-0051 EA Down Guy For 45' To 60' Pole .....	1,163.95	468.82
26 05 46 00-0052 EA Down Guy For 65' To 75' Pole .....	1,204.44	468.82
26 05 46 00-0053 EA Guy Guard, Plastic.....	45.04	
<b>26 05 46 00-0054 Head Guy, 50' Spans (26 05 46 00-0048)</b>		
26 05 46 00-0055 EA Head Guy (50' Span), For 25' To 40' Pole .....	1,656.34	719.97
26 05 46 00-0056 EA Head Guy (50' Span), For 45' To 60' Pole .....	1,656.34	719.97
26 05 46 00-0057 EA Head Guy (50' Span), For 65' To 75' Pole .....	1,656.34	719.97
<b>26 05 46 00-0058 Guy Strain Insulators Additional Insulators (26 05 46 00-0048)</b>		
Note: As required at same material cost and labor.		
26 05 46 00-0059 EA Guy Strain Insulator .....	710.04	351.61
<b>26 05 46 00-0060 Pole Anchor (26 05 46 00-0048)</b>		
Note: Joslyn.		
26 05 46 00-0061 EA Pole Anchor, 4" Helix, 3/4" x 54" Shaft .....	66.21	27.00
26 05 46 00-0062 EA Pole Anchor, 6" Helix, 3/4" x 66" Shaft .....	75.53	27.00
26 05 46 00-0063 EA Pole Anchor, 8" Helix, 1" x 66" Shaft .....	101.68	30.37
26 05 46 00-0064 EA Pole Anchor, 10" Helix, 1-1/4" x 66" Shaft .....	144.36	33.75
26 05 46 00-0065 EA Pole Anchor, 10" Helix, 1-1/4" x 8' Shaft .....	165.12	37.13
26 05 46 00-0066 EA Pole Anchor, 16" Helix, 1-1/4" x 8' Shaft.....	266.43	50.62
<b>26 05 46 00-0067 Insulators (26 05 46)</b>		
<b>26 05 46 00-0068 Pin Insulator With Pin (26 05 46 00-0067)</b>		
26 05 46 00-0069 EA 5 KV Class 55-3, Pin Insulator With Pin .....	222.32	100.46
26 05 46 00-0070 EA 15 KV Class 55-5, Pin Insulator With Pin.....	227.37	100.46
<b>26 05 46 00-0071 Suspension Insulator (26 05 46 00-0067)</b>		
Note: Includes clevis and strain clamp.		
26 05 46 00-0072 EA 5 KV Class 52-2, Suspension Insulator, With Clevis And Strain Clamp.....	280.20	133.95
26 05 46 00-0073 EA 15 KV Class 52-4, Suspension Insulator, With Clevis And Strain Clamp.....	293.93	133.95
26 05 46 00-0074 EA 25 KV Class 2 x 52-4, Suspension Insulator, With Clevis And Strain Clamp .....	408.20	167.43
26 05 46 00-0075 EA 50 KV Class 4 x 52-4, Suspension Insulator, With Clevis And Strain Clamp .....	640.86	267.89
<b>26 05 46 00-0076 Spool Insulator With Clevis (26 05 46 00-0067)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0077 EA 5 KV Class 53-5, Spool Insulator With Clevis .....	93.29	41.86
26 05 46 00-0078 EA 15 KV Class, Spool Insulator With Clevis .....	297.70	150.69
26 05 46 00-0079 EA 25 KV Class, Spool Insulator With Clevis .....	386.46	150.69
<b>26 05 46 00-0080 Secondary Rack (26 05 46 00-0067)</b>		
26 05 46 00-0081 EA 1 Spool Secondary Rack .....	185.60	83.71
26 05 46 00-0082 EA 2 Spool Secondary Rack .....	190.02	106.83
26 05 46 00-0083 EA 3 Spool Secondary Rack .....	284.72	142.32
26 05 46 00-0084 EA 4 Spool Secondary Rack .....	320.51	142.32
<b>26 05 46 00-0085 Outdoor Load Break Switches (26 05 46)</b>		
Note: 3-Phase, group operated, 3-insulator, vertical break, high strength pin insulators worm gear operating mechanism operating rods, mechanisms, and switch bases are galvanized steel.		
<b>26 05 46 00-0086 7.2 KV Outdoor Load Break Switches (26 05 46 00-0085)</b>		
26 05 46 00-0087 EA 600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	5,083.52	569.27
26 05 46 00-0088 EA 1,200 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	9,826.80	569.27
26 05 46 00-0089 EA 1,600 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	14,623.59	962.75
26 05 46 00-0090 EA 2,000 Amperes, 7.2 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	14,969.80	962.75
<b>26 05 46 00-0091 14.4 KV Outdoor Load Break Switches (26 05 46 00-0085)</b>		
26 05 46 00-0092 EA 600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	6,173.82	569.27
26 05 46 00-0093 EA 1,200 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	11,576.59	569.27
26 05 46 00-0094 EA 1,600 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	14,623.59	962.75
26 05 46 00-0095 EA 2,000 Amperes, 14.4 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	14,969.80	962.75
<b>26 05 46 00-0096 23 KV Outdoor Load Break Switches (26 05 46 00-0085)</b>		
26 05 46 00-0097 EA 600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	6,818.72	661.36
26 05 46 00-0098 EA 1,200 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	12,676.57	661.36
26 05 46 00-0099 EA 1,600 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	15,324.06	1,138.55
26 05 46 00-0100 EA 2,000 Amperes, 23 KV, Outdoor Load Break Switch, 3 Phase Vertical Break, 3 Insulator .....	15,681.61	1,138.55
<b>26 05 46 00-0101 Square Distribution Poles (26 05 46)</b>		
<b>26 05 46 00-0102 Square Steel Tapered Shaft Distribution Poles (26 05 46 00-0101)</b>		
26 05 46 00-0103 EA 20', Steel Taped Shaft Distribution Pole .....	4,180.59	711.59
26 05 46 00-0104 EA 25', Steel Taped Shaft Distribution Pole .....	4,675.49	753.45
26 05 46 00-0105 EA 30', Steel Taped Shaft Distribution Pole .....	5,074.87	837.16
26 05 46 00-0106 EA 35', Steel Taped Shaft Distribution Pole .....	5,614.88	920.88
26 05 46 00-0107 EA 40', Steel Taped Shaft Distribution Pole .....	7,587.50	1,004.60
<b>26 05 46 00-0108 Square Prestressed Concrete Distribution Poles (26 05 46 00-0101)</b>		
26 05 46 00-0109 EA 30', Prestressed Concrete Square Pole For Distribution .....	5,473.49	1,250.21
26 05 46 00-0110 EA 35', Prestressed Concrete Square Pole For Distribution .....	6,147.67	1,371.20
26 05 46 00-0111 EA 40', Prestressed Concrete Square Pole For Distribution .....	7,186.75	1,532.52
26 05 46 00-0112 EA 45', Prestressed Concrete Square Pole For Distribution .....	8,090.44	1,693.84
26 05 46 00-0113 EA 50', Prestressed Concrete Square Pole For Distribution .....	7,580.86	2,056.80
26 05 46 00-0114 EA 55', Prestressed Concrete Square Pole For Distribution .....	11,402.54	2,419.76
26 05 46 00-0115 EA 60', Prestressed Concrete Square Pole For Distribution .....	13,419.27	2,742.40
26 05 46 00-0116 EA 65', Prestressed Concrete Square Pole For Distribution .....	16,219.88	3,387.67
26 05 46 00-0117 EA 70', Prestressed Concrete Square Pole For Distribution .....	18,147.73	3,710.31
<b>26 05 46 00-0118 Aluminum Tapered Poles (26 05 46)</b>		
<b>26 05 46 00-0119 Aluminum Tapered Round Seamless Shaft Poles (26 05 46 00-0118)</b>		
26 05 46 00-0120 EA 20', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	3,586.62	627.88
26 05 46 00-0121 EA 25', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	4,953.45	669.74
26 05 46 00-0122 EA 30', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	5,690.73	753.45
26 05 46 00-0123 EA 35', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	6,729.22	837.16
26 05 46 00-0124 EA 40', Aluminum Tapered Round Seamless Shaft Pole For Distribution .....	10,057.47	920.88
<b>26 05 46 00-0125 Steel Service Poles Distribution (26 05 46)</b>		
Note: Direct embedded, bearing plate on base end, pole cap on top end, grounding nut, galvanized finish.		
<b>26 05 46 00-0126 Round Tapered Pole (26 05 46 00-0125)</b>		
26 05 46 00-0127 EA 40', Galvanized Steel Tapered Round Pole For Distribution .....	5,085.88	1,004.60
26 05 46 00-0128 EA 45', Galvanized Steel Tapered Round Pole For Distribution .....	5,873.27	1,088.32
26 05 46 00-0129 EA 50', Galvanized Steel Tapered Round Pole For Distribution .....	6,263.36	1,172.03
26 05 46 00-0130 EA 55', Galvanized Steel Tapered Round Pole For Distribution .....	7,358.17	1,339.47
26 05 46 00-0131 EA 60', Galvanized Steel Tapered Round Pole For Distribution .....	9,032.97	1,506.90
26 05 46 00-0132 EA 65', Galvanized Steel Tapered Round Pole For Distribution .....	10,693.02	1,895.48
26 05 46 00-0133 EA 70', Galvanized Steel Tapered Round Pole For Distribution .....	11,922.28	2,150.36
26 05 46 00-0134 EA 75', Galvanized Steel Tapered Round Pole For Distribution .....	13,190.24	2,419.76

**26 Electrical****26 05 Common Work Results for Electrical****26 05 46 Utility Poles for Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 46 00-0135 EA 80', Galvanized Steel Tapered Round Pole For Distribution .....	14,824.74	2,742.40
26 05 46 00-0136 EA 85', Galvanized Steel Tapered Round Pole For Distribution .....	15,833.93	2,903.72
26 05 46 00-0137 EA 90', Galvanized Steel Tapered Round Pole For Distribution .....	17,219.27	3,226.35
26 05 46 00-0138 EA 95', Galvanized Steel Tapered Round Pole For Distribution .....	18,949.11	3,629.65
26 05 46 00-0139 EA 100', Galvanized Steel Tapered Round Pole For Distribution .....	20,979.66	4,113.60
<b>26 05 46 00-0140 12 Sided Tapered</b> <small>(26 05 46 00-0125)</small>		
26 05 46 00-0141 EA 40', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	8,383.52	1,004.60
26 05 46 00-0142 EA 45', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	9,242.35	1,088.32
26 05 46 00-0143 EA 50', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	10,220.69	1,172.03
26 05 46 00-0144 EA 55', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	11,253.03	1,339.47
26 05 46 00-0145 EA 60', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	14,835.20	1,506.90
26 05 46 00-0146 EA 65', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	16,530.93	1,895.48
26 05 46 00-0147 EA 70', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	19,132.73	2,150.36
26 05 46 00-0148 EA 75', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	20,627.96	2,419.76
26 05 46 00-0149 EA 80', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	22,253.13	2,742.40
26 05 46 00-0150 EA 85', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	23,579.20	2,903.72
26 05 46 00-0151 EA 90', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	26,742.59	3,226.35
26 05 46 00-0152 EA 95', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	28,445.75	3,629.65
26 05 46 00-0153 EA 100', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	30,538.64	4,113.60
26 05 46 00-0154 EA 105', Galvanized Steel Tapered 12 Sided Pole For Distribution .....	32,765.72	4,597.56
<b>26 05 46 00-0155 Standard Options For Round, 12 Sided and Octagonal Tapered Poles</b> <small>(26 05 46 00-0125)</small>		
26 05 46 00-0156 EA Ladder Clips.....	23.19	
26 05 46 00-0157 EA Coal Tar Epoxy Coating From Base To 1' Above Ground Line.....	173.97	
26 05 46 00-0158 EA Ground Sleeve-2' At Ground Line.....	174.99	
<b>26 05 46 00-0159 Arms With Baseplates And Endplates</b> <small>(26 05 46 00-0125)</small>		
26 05 46 00-0160 EA 4' Arm With Baseplate And Endplate .....	907.57	167.43
26 05 46 00-0161 EA 5' Arm With Baseplate And Endplate .....	985.23	167.43
26 05 46 00-0162 EA 6' Arm With Baseplate And Endplate .....	1,231.62	251.15
26 05 46 00-0163 EA 7' Arm With Baseplate And Endplate .....	1,299.54	251.15
26 05 46 00-0164 EA 8' Arm With Baseplate And Endplate .....	1,543.38	334.87
26 05 46 00-0165 EA 9' Arm With Baseplate And Endplate .....	1,620.99	334.87
26 05 46 00-0166 EA 10' Arm With Baseplate And Endplate.....	2,147.61	418.58
26 05 46 00-0167 EA 11' Arm With Baseplate And Endplate.....	2,234.74	418.58
<b>26 05 46 00-0168 Standard Vangs Load Bearing At Any Angle</b> <small>(26 05 46 00-0125)</small>		
26 05 46 00-0169 EA 15,000 LB Standard Vangs Load Bearing At Any Angle.....	398.91	167.43
26 05 46 00-0170 EA 30,000 LB Standard Vangs Load Bearing At Any Angle.....	446.49	167.43
26 05 46 00-0171 EA 45,000 LB Standard Vangs Load Bearing At Any Angle.....	511.54	167.43
<b>26 05 46 00-0172 Armless Construction Brackets</b> <small>(26 05 46 00-0125)</small>		
<b>26 05 46 00-0173 Verticals Insulator And Equipment Bracket</b> <small>(26 05 46 00-0172)</small>		
26 05 46 00-0174 EA 7" 1 Position Vertical Insulation And Equipment Bracket.....	406.67	167.43
26 05 46 00-0175 EA 12" 1 Position Vertical Insulation And Equipment Bracket.....	436.71	167.43
26 05 46 00-0176 EA 12" 3 Position Vertical Insulation And Equipment Bracket.....	485.51	167.43
26 05 46 00-0177 EA 18" 1 Position Vertical Insulation And Equipment Bracket.....	684.90	251.15
26 05 46 00-0178 EA 18" 3 Position Vertical Insulation And Equipment Bracket.....	713.40	251.15
<b>26 05 46 00-0179 Horizontal And Multiple Insulator Brackets</b> <small>(26 05 46 00-0172)</small>		
26 05 46 00-0180 EA Sidepole 1 7/8" Clearance Horizontal And Multiple Insulation Brackets .....	383.28	167.43
26 05 46 00-0181 EA Sidepole 2" Clearance Horizontal And Multiple Insulation Brackets .....	446.40	167.43
26 05 46 00-0182 EA Sidepole 9" Clearance Horizontal And Multiple Insulation Brackets .....	654.33	251.15
26 05 46 00-0183 EA Sidepole 10" Clearance Horizontal And Multiple Insulation Brackets .....	803.30	251.15
26 05 46 00-0184 EA Sidepole 15" Clearance Horizontal And Multiple Insulation Brackets .....	1,032.78	334.87
26 05 46 00-0185 EA Sidepole 20" Clearance Horizontal And Multiple Insulation Brackets .....	1,111.84	334.87
<b>26 05 46 00-0186 Pole Top Bracket And Pins</b> <small>(26 05 46 00-0172)</small>		
26 05 46 00-0187 EA Pole Top Pin - 5".....	392.44	167.43
26 05 46 00-0188 EA Pole Top Bracket - 5".....	407.77	167.43
<b>26 05 46 00-0189 Angle Pins</b> <small>(26 05 46 00-0172)</small>		
26 05 46 00-0190 EA Angle Pin - 25 Degree, 6" .....	390.37	167.43
26 05 46 00-0191 EA Angle Pin - 25 Degree, 7 1/4" .....	440.14	167.43
<b>26 05 46 00-0192 Static And Neutral Wire Brackets</b> <small>(26 05 46 00-0172)</small>		
26 05 46 00-0193 EA Neutral Wire Extension Bracket.....	407.18	167.43
26 05 46 00-0194 EA Static Wire Support Bracket.....	412.36	167.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 46 00-0195</b> <b>Cutout, Arrestor And Terminator Brackets</b> <small>(26 05 46 00-0172)</small>		
26 05 46 00-0196    EA    Cutout And Arrestor, With Mounting Bracket .....	369.38	167.43
26 05 46 00-0197    EA    Equipment Mounting T Bracket .....	391.97	167.43
26 05 46 00-0198    EA    15 KV Cutout .....	495.35	
26 05 46 00-0199    EA    9/10 KV Arrestor .....	463.58	167.43
<b>26 05 46 00-0200</b> <b>Spacer Cable, Conduit Support And Cluster Bracket</b> <small>(26 05 46 00-0172)</small>		
26 05 46 00-0201    EA    Parallel Cable Spacer .....	444.39	167.43
26 05 46 00-0202    EA    Conduit Standoff Support Bracket .....	427.85	167.43
26 05 46 00-0203    EA    Three Transformer Pole Mounted Cluster Bracket .....	1,001.64	167.43
<b>26 05 46 00-0204</b> <b>15 KV, 200 Amperes, Solenoid Operated High Voltage Switch</b> <small>(26 05 46 00-0172)</small>		
Note: Includes pole mounting bracket.		
26 05 46 00-0205    EA    15 KV, 1 Phase, Solenoid Switch With Pole Bracket .....	2,237.04	418.58
<b>26 05 46 00-0206</b> <b>Octagonal Tapered</b> <small>(26 05 46 00-0125)</small>		
26 05 46 00-0207    EA    40', Galvanized Steel Tapered Octagonal Pole For Distribution .....	8,628.61	1,004.60
26 05 46 00-0208    EA    45', Galvanized Steel Tapered Octagonal Pole For Distribution .....	9,514.19	1,088.32
26 05 46 00-0209    EA    50', Galvanized Steel Tapered Octagonal Pole For Distribution .....	10,523.73	1,172.03
26 05 46 00-0210    EA    55', Galvanized Steel Tapered Octagonal Pole For Distribution .....	11,582.80	1,423.19
26 05 46 00-0211    EA    60', Galvanized Steel Tapered Octagonal Pole For Distribution .....	15,289.75	1,506.90
26 05 46 00-0212    EA    65', Galvanized Steel Tapered Octagonal Pole For Distribution .....	17,021.14	1,895.48
26 05 46 00-0213    EA    70', Galvanized Steel Tapered Octagonal Pole For Distribution .....	19,703.15	2,016.47
26 05 46 00-0214    EA    75', Galvanized Steel Tapered Octagonal Pole For Distribution .....	21,236.25	2,419.76
26 05 46 00-0215    EA    80', Galvanized Steel Tapered Octagonal Pole For Distribution .....	22,897.06	2,581.09
26 05 46 00-0216    EA    85', Galvanized Steel Tapered Octagonal Pole For Distribution .....	24,261.03	2,903.72
26 05 46 00-0217    EA    90', Galvanized Steel Tapered Octagonal Pole For Distribution .....	27,520.23	3,065.04
26 05 46 00-0218    EA    95', Galvanized Steel Tapered Octagonal Pole For Distribution .....	29,263.50	3,629.65
26 05 46 00-0219    EA    100', Galvanized Steel Tapered Octagonal Pole For Distribution .....	31,396.50	3,871.63
26 05 46 00-0220    EA    105', Galvanized Steel Tapered Octagonal Pole For Distribution .....	33,668.14	4,355.58
<b>26 05 46 00-0221</b> <b>Removal And Relocation Of Steel Service Poles</b> <small>(26 05 46 00-0125)</small>		
26 05 46 00-0222    LF    Removal And Relocation Of Steel Service Poles With Arms Up To 60' .....	58.59	
<b>26 05 46 00-0223</b> <b>Special Steel Bases For Poles</b> <small>(26 05 46 00-0125)</small>		
26 05 46 00-0224    EA    Spin-In Steel Base For Poles .....	325.12	
26 05 46 00-0225    EA    Series 3, 25' Pole And less .....	358.38	83.71
26 05 46 00-0226    EA    Series 4, 40' Pole And less .....	425.94	96.27
26 05 46 00-0227    EA    Series 5, 50' Pole And less .....	485.12	104.65
<b>26 05 53    Identification for Electrical Systems</b> <small>(26 05)</small>		
<b>26 05 53 00-0001</b> <b>Conduit Markers Pressure-Sensitive</b> <small>(26 05 53)</small>		
Note: Stick-on, includes arrow tape.		
26 05 53 00-0002    EA    1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	16.48	
26 05 53 00-0003    EA    3/4" Outside Diameter Pressure Sensitive Marker Stick-on .....	17.25	
26 05 53 00-0004    EA    1" Outside Diameter Pressure Sensitive Marker Stick-on .....	18.80	
26 05 53 00-0005    EA    1-1/4" Outside Diameter Pressure Sensitive Marker Stick-on .....	19.10	
26 05 53 00-0006    EA    1-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	19.41	
26 05 53 00-0007    EA    2" Outside Diameter Pressure Sensitive Marker Stick-on .....	19.87	
26 05 53 00-0008    EA    2-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	22.85	
26 05 53 00-0009    EA    3" Outside Diameter Pressure Sensitive Marker Stick-on .....	23.46	
26 05 53 00-0010    EA    3-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	23.92	
26 05 53 00-0011    EA    4" Outside Diameter Pressure Sensitive Marker Stick-on .....	24.40	
26 05 53 00-0012    EA    4-1/2" Outside Diameter Pressure Sensitive Marker Stick-on .....	25.36	
26 05 53 00-0013    EA    5" Outside Diameter Pressure Sensitive Marker Stick-on .....	26.39	
26 05 53 00-0014    EA    6" Outside Diameter Pressure Sensitive Marker Stick-on .....	27.30	
26 05 53 00-0015    EA    7" Outside Diameter Pressure Sensitive Marker Stick-on .....	28.21	
26 05 53 00-0016    EA    8" Outside Diameter Pressure Sensitive Marker Stick-on .....	30.68	
26 05 53 00-0017    EA    10" Outside Diameter Pressure Sensitive Marker Stick-on .....	32.37	
<b>26 05 53 00-0018</b> <b>Labeling Existing Electrical Wires</b> <small>(26 05 53)</small>		
Note: Self-adhesive vinyl coated white cloth		
26 05 53 00-0019    EA    Labeling Existing Wire .....	4.72	
<b>26 05 53 00-0020</b> <b>Equipment Labeling</b> <small>(26 05 53)</small>		
26 05 53 00-0021    EA    Label Both Ends Of One 4 Pair Cable .....	30.28	
26 05 53 00-0022    EA    Label single gang face plate (2 labels required) .....	24.22	
26 05 53 00-0023    EA    Label two gang face plate (4 labels required) .....	36.33	
26 05 53 00-0024    EA    Label both ends of a Siamese (dual 4 Pair cable) .....	30.28	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 53 Identification for Electrical Systems**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**26 05 83 Wiring Connections** (26 05)**26 05 83 00-0001 Tape Wrapped Compression Connectors** (26 05 83)

26 05 83 00-0002	EA	#6 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	19.94	6.92
26 05 83 00-0003	EA	#4 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	21.81	7.69
26 05 83 00-0004	EA	#2 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	23.50	8.46
26 05 83 00-0005	EA	1/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	27.06	9.23
26 05 83 00-0006	EA	2/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	29.12	10.00
26 05 83 00-0007	EA	3/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	32.24	10.77
26 05 83 00-0008	EA	4/0 AWG Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	34.53	11.54
26 05 83 00-0009	EA	250 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	37.58	12.30
26 05 83 00-0010	EA	300 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	41.62	13.84
26 05 83 00-0011	EA	350 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	43.68	14.62
26 05 83 00-0012	EA	400 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	48.40	15.39
26 05 83 00-0013	EA	500 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	52.55	16.15
26 05 83 00-0014	EA	750 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	58.64	17.69
26 05 83 00-0015	EA	1,000 MCM Compression Connection, Tape Wrapped Low Voltage, To 600 Volt.....	67.90	19.99

**26 05 83 00-0016 One Hole Compression Lugs** (26 05 83)

26 05 83 00-0017	EA	#22-18 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	26.37	19.99
26 05 83 00-0018	EA	#16-14 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	26.54	19.99
26 05 83 00-0019	EA	#12-10 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	30.02	21.54
26 05 83 00-0020	EA	#8 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	37.00	23.84
26 05 83 00-0021	EA	#6 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	52.04	30.76
26 05 83 00-0022	EA	#4 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	61.05	30.76
26 05 83 00-0023	EA	#2 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	70.24	30.76
26 05 83 00-0024	EA	1/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	86.61	46.15
26 05 83 00-0025	EA	2/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	101.58	46.15
26 05 83 00-0026	EA	3/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	118.88	46.15
26 05 83 00-0027	EA	4/0 AWG Low Voltage (To 600 Volt) One Hole Compression Lug.....	143.38	61.53
26 05 83 00-0028	EA	250 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	170.05	92.29
26 05 83 00-0029	EA	300 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	194.52	92.29
26 05 83 00-0030	EA	350 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	209.08	92.29
26 05 83 00-0031	EA	400 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	227.64	107.68
26 05 83 00-0032	EA	500 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	248.84	107.68
26 05 83 00-0033	EA	750 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	270.46	123.05
26 05 83 00-0034	EA	1,000 MCM Low Voltage (To 600 Volt) One Hole Compression Lug.....	317.51	138.44

**26 05 83 00-0035 Two Hole Compression Lugs** (26 05 83)

26 05 83 00-0036	EA	#8 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	53.76	26.15
26 05 83 00-0037	EA	#6 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	57.68	27.84
26 05 83 00-0038	EA	#4 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	60.85	27.84
26 05 83 00-0039	EA	#2 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	70.01	32.00
26 05 83 00-0040	EA	1/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	86.36	39.99
26 05 83 00-0041	EA	2/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	101.33	47.53
26 05 83 00-0042	EA	3/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	118.60	55.69
26 05 83 00-0043	EA	4/0 AWG Low Voltage (To 600 Volt) Two Hole Compression Lug.....	143.06	67.53
26 05 83 00-0044	EA	250 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	169.68	80.14
26 05 83 00-0045	EA	300 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	194.08	91.52
26 05 83 00-0046	EA	350 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	208.63	98.60
26 05 83 00-0047	EA	400 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	227.11	106.76
26 05 83 00-0048	EA	500 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	248.24	116.59
26 05 83 00-0049	EA	750 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	271.14	126.44
26 05 83 00-0050	EA	1,000 MCM Low Voltage (To 600 Volt) Two Hole Compression Lug.....	335.19	153.82

**26 05 83 00-0051 Tape Wrapped Split Bolt Connectors** (26 05 83)

26 05 83 00-0052	EA	#8 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	80.58	61.53
26 05 83 00-0053	EA	#6 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	88.60	66.15
26 05 83 00-0054	EA	#4 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	100.98	69.22
26 05 83 00-0055	EA	#2 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	117.11	76.91
26 05 83 00-0056	EA	1/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	138.13	84.60
26 05 83 00-0057	EA	2/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	154.45	92.29
26 05 83 00-0058	EA	3/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	192.92	99.98
26 05 83 00-0059	EA	4/0 AWG Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	206.95	107.68
26 05 83 00-0060	EA	250 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	218.07	115.36
26 05 83 00-0061	EA	300 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	248.21	126.90
26 05 83 00-0062	EA	350 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	278.34	184.58
26 05 83 00-0063	EA	400 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	304.66	153.82
26 05 83 00-0064	EA	500 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	330.99	207.66
26 05 83 00-0065	EA	750 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	366.18	215.35
26 05 83 00-0066	EA	1,000 MCM Split Bolt Connectors, Wrapped, Low Voltage, To 600 Volt.....	413.60	230.73

**26 05 83 00-0067 Cable Termination Lugs Handwrapped, No Stress Cone** (26 05 83)





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0068 EA #8 Or #6 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	131.73	61.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.30	
26 05 83 00-0069 EA #4 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	146.73	61.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.62	
26 05 83 00-0070 EA 1/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	203.30	92.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.27	
26 05 83 00-0071 EA 4/0 AWG Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	231.04	92.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.16	
26 05 83 00-0072 EA 300 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	276.24	115.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.92	
26 05 83 00-0073 EA 500 MCM Cable Termination Lugs, Wrapped, No Stress Cones, Low Volt, To 600 Volt.....	385.63	153.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.14	
 <b>26 05 83 00-0074 Terminal Blocks <small>(26 05 83)</small></b>		
<i>Note: Labor excludes wire termination.</i>		
26 05 83 00-0075 EA Power Distribution Block, 250 MCM 3 Phase Terminal Block, No Labor Wire Termination, 600 Volt.....	1,336.02	569.14
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	341.83	
26 05 83 00-0076 EA #22 To #10 Wire Size, 12 Point, 600 Volt Terminal Block .....	332.65	77.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.65	
26 05 83 00-0077 EA #8 To #2 Wire Size, 12 Point, 600 Volt Terminal Block .....	365.99	77.01
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47.15	
 <b>26 05 83 00-0078 Parallel Gutter Tap Or Motor Connection <small>(26 05 83)</small></b>		
26 05 83 00-0079 EA #8 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	53.75	27.84
26 05 83 00-0080 EA #6 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	57.69	27.84
26 05 83 00-0081 EA #4 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	60.85	27.84
26 05 83 00-0082 EA #2 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	70.01	32.00
26 05 83 00-0083 EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	86.36	39.99
26 05 83 00-0084 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	101.33	47.53
26 05 83 00-0085 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	118.60	55.69
26 05 83 00-0086 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	143.06	67.53
26 05 83 00-0087 EA 250 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	169.68	80.14
26 05 83 00-0088 EA 300 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	194.08	91.52
26 05 83 00-0089 EA 350 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	208.63	98.60
26 05 83 00-0090 EA 400 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	227.10	106.76
26 05 83 00-0091 EA 500 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	248.24	116.59
26 05 83 00-0092 EA 750 MCM Parallel Gutter Tap, Versitap, Insulation With Duct Seal And Tap.....	248.78	116.59
26 05 83 00-0093 EA #8 AWG Parallel Gutter Tap, Versitap, Insulating Cover .....	53.75	27.84
26 05 83 00-0094 EA #6 AWG Parallel Gutter Tap, Versitap, Insulating Cover .....	57.69	27.84
26 05 83 00-0095 EA #4 AWG Parallel Gutter Tap, Versitap, Insulating Cover .....	60.85	27.84
26 05 83 00-0096 EA #2 AWG Parallel Gutter Tap, Versitap, Insulating Cover .....	70.01	32.00
26 05 83 00-0097 EA 1/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover .....	86.36	39.99
26 05 83 00-0098 EA 2/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover .....	101.33	47.53
26 05 83 00-0099 EA 3/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover .....	118.60	55.69
26 05 83 00-0100 EA 4/0 AWG Parallel Gutter Tap, Versitap, Insulating Cover .....	143.06	67.53
26 05 83 00-0101 EA 250 MCM Parallel Gutter Tap, Versitap, Insulating Cover .....	169.68	80.14
26 05 83 00-0102 EA 300 MCM Parallel Gutter Tap, Versitap, Insulating Cover .....	194.08	91.52
26 05 83 00-0103 EA 350 MCM Parallel Gutter Tap, Versitap, Insulating Cover .....	208.63	98.60
26 05 83 00-0104 EA 400 MCM Parallel Gutter Tap, Versitap, Insulating Cover .....	227.10	106.76
26 05 83 00-0105 EA 500 MCM Parallel Gutter Tap, Versitap, Insulating Cover .....	248.24	116.59
26 05 83 00-0106 EA 750 MCM Parallel Gutter Tap, Versitap, Insulating Cover .....	248.78	116.59
 <b>26 05 83 00-0107 Copper Mechanical Lugs <small>(26 05 83)</small></b>		
26 05 83 00-0108 EA #8 Copper Mechanical Lugs .....	42.66	19.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.54	
26 05 83 00-0109 EA #6 Copper Mechanical Lugs .....	51.25	23.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.93	
26 05 83 00-0110 EA #4 Copper Mechanical Lugs .....	59.25	26.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.15	
26 05 83 00-0111 EA #2 Copper Mechanical Lugs .....	77.18	34.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.60	
26 05 83 00-0112 EA 1/0 Copper Mechanical Lugs .....	103.92	46.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 05 83 00-0113 EA 2/0 Copper Mechanical Lugs .....	123.33	53.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.16	
26 05 83 00-0114 EA 3/0 Copper Mechanical Lugs .....	143.76	61.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 05 83 00-0115 EA 4/0 Copper Mechanical Lugs .....	163.24	69.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.40	
26 05 83 00-0116 EA 250 MCM Copper Mechanical Lugs.....	186.10	76.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 05 83 00-0117 EA 300 MCM Copper Mechanical Lugs.....	208.59	84.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.78	
26 05 83 00-0118 EA 350 MCM Copper Mechanical Lugs.....	230.97	92.29
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.37	
26 05 83 00-0119 EA 400 MCM Copper Mechanical Lugs.....	253.20	99.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.94	
26 05 83 00-0120 EA 500 MCM Copper Mechanical Lugs.....	275.80	107.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.60	

**26 Electrical****26 05 Common Work Results for Electrical****26 05 83 Wiring Connections**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0121 EA 750 MCM Copper Mechanical Lugs.....	312.83	122.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.60	
26 05 83 00-0122 EA 1,000 MCM Copper Mechanical Lugs.....	354.01	138.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.06	
<b>26 05 83 00-0123 Gel Connectors (26 05 83)</b>		
26 05 83 00-0124 EA 3 Port, #14 to 2/0, Push On Gel Stub Splice Kit.....	70.31	
Note: Kit contains connector, gel filled cap and cap clamp.		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.62	
26 05 83 00-0125 EA 4 Port, #14 to 2, Gel Tap Splice Kit.....	68.56	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5.55	
<b>26 05 83 00-0126 Other Connections (26 05 83)</b>		
26 05 83 00-0127 EA #14 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	15.17	7.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.22	
26 05 83 00-0128 EA #12 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	15.28	7.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.22	
26 05 83 00-0129 EA #10 AWG Motor Connection, Spade Lug, Machine Bolt/Nut, Insulated With Tape.....	15.39	7.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.22	
<b>26 05 83 00-0130 Motor/Equipment Connections And Terminations (26 05 83)</b>		
Note: Includes rotation testing. If equipment rating is other than horsepower (KW, CFM, tons, Btu/Hr, etc.) convert units to horsepower and select proper circuit characteristics. Includes material conduit (6 LF max.), connectors and conductors. To connect electrical wiring to all new or existing equipment motors. See CSI section 23 05 13 00-0000 for motors, 23 05 13 00-0216 for motor mounting.		
<b>26 05 83 00-0131 AC Single Phase, 230 Volt (26 05 83 00-0130)</b>		
26 05 83 00-0132 EA <1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	91.10	38.46
26 05 83 00-0133 EA 1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.62	38.46
26 05 83 00-0134 EA 3/4 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	106.57	46.15
26 05 83 00-0135 EA 1 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	130.70	57.68
26 05 83 00-0136 EA 1-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	131.65	57.68
26 05 83 00-0137 EA 2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	131.84	57.68
26 05 83 00-0138 EA 3 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	134.99	57.68
26 05 83 00-0139 EA 5 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	173.82	76.91
26 05 83 00-0140 EA 7-1/2 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	177.34	76.91
26 05 83 00-0141 EA 10 HP AC Motor Single Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	223.70	96.14
<b>26 05 83 00-0142 AC Three Phase, 230 Volt (26 05 83 00-0130)</b>		
26 05 83 00-0143 EA 1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.62	38.46
26 05 83 00-0144 EA 3/4 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	106.57	46.15
26 05 83 00-0145 EA 1 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	130.70	57.68
26 05 83 00-0146 EA 1-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	131.65	57.68
26 05 83 00-0147 EA 2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	131.84	57.68
26 05 83 00-0148 EA 3 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	134.99	57.68
26 05 83 00-0149 EA 5 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	173.82	76.91
26 05 83 00-0150 EA 7-1/2 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	177.34	76.91
26 05 83 00-0151 EA 10 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	223.70	96.14
26 05 83 00-0152 EA 15 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	228.46	96.14
26 05 83 00-0153 EA 20 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	285.67	115.36
26 05 83 00-0154 EA 25 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	292.92	115.36
26 05 83 00-0155 EA 30 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	398.11	153.82
26 05 83 00-0156 EA 40 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	498.82	192.28
26 05 83 00-0157 EA 50 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	589.65	230.73
26 05 83 00-0158 EA 60 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	699.48	269.19
26 05 83 00-0159 EA 75 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	803.25	307.65
26 05 83 00-0160 EA 100 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	998.12	384.55
26 05 83 00-0161 EA 125 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,180.27	457.62
26 05 83 00-0162 EA 150 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,394.31	533.76
26 05 83 00-0163 EA 200 HP AC Motor Three Phase, 230 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	2,004.23	800.49
<b>26 05 83 00-0164 AC Three Phase, 460 Volt (26 05 83 00-0130)</b>		
26 05 83 00-0165 EA 1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	90.62	38.46
26 05 83 00-0166 EA 3/4 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	106.57	46.15
26 05 83 00-0167 EA 1 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	130.70	57.68
26 05 83 00-0168 EA 1-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	131.65	57.68
26 05 83 00-0169 EA 2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	131.84	57.68
26 05 83 00-0170 EA 3 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	134.99	57.68
26 05 83 00-0171 EA 5 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	173.82	76.91
26 05 83 00-0172 EA 7-1/2 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	177.34	76.91
26 05 83 00-0173 EA 10 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	223.70	96.14
26 05 83 00-0174 EA 15 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	228.46	96.14
26 05 83 00-0175 EA 20 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	285.68	115.36
26 05 83 00-0176 EA 25 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	292.91	115.36
26 05 83 00-0177 EA 30 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	398.11	153.82
26 05 83 00-0178 EA 40 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	499.28	192.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 83 00-0179 EA 50 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	589.65	230.73
26 05 83 00-0180 EA 60 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	699.48	269.19
26 05 83 00-0181 EA 75 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	803.25	307.65
26 05 83 00-0182 EA 100 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	998.12	384.55
26 05 83 00-0183 EA 125 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,180.71	457.77
26 05 83 00-0184 EA 150 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	1,394.90	534.07
26 05 83 00-0185 EA 200 HP AC Motor Three Phase, 460 Volt Motor/Equipment, Connection, Termination And Rotation Testing.....	2,005.57	801.11

<b>26 05 83 00-0186</b>	<b>AC Single Phase, 120 Volt</b> <small>(26 05 83 00-0130)</small>		
26 05 83 00-0187 EA	1/2 HP AC And Less Single Phase, 120 Volt Motor/Equipment, Connection, Termination And Rotation Testing .....	91.10	38.46

<b>26 05 83 00-0188</b>	<b>Motor Moisture Sensor</b> <small>(26 05 83 00-0130)</small>		
26 05 83 00-0189 EA	Motor Moisture Sensor Located In Winding.....	1,186.87	

## 26 09 Instrumentation and Control for Electrical Systems <sup>(26)</sup>

Note: Includes testing of new devices and certification.

### 26 09 23 Lighting Control Devices <sup>(26 09)</sup>

<b>26 09 23 00-0001</b>	<b>Lighting Contactors</b> <small>(26 09 23)</small>		
	Note: Up to 600 volt.		
<b>26 09 23 00-0002</b>	<b>Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0001)</small>		
<b>26 09 23 00-0003</b>	<b>NEMA 1 Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0002)</small>		
<b>26 09 23 00-0004</b>	<b>2-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0003)</small>		
26 09 23 00-0005 EA	20 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	587.59	123.05
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.84	
26 09 23 00-0006 EA	30 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	723.45	138.44
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.06	
26 09 23 00-0007 EA	60 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,345.42	215.35
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.21	
26 09 23 00-0008 EA	100 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,086.54	292.26
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.36	
26 09 23 00-0009 EA	200 Amperes, 2 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	4,301.34	384.55
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	230.73	
<b>26 09 23 00-0010</b>	<b>3-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0003)</small>		
26 09 23 00-0011 EA	20 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	663.47	138.44
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.06	
26 09 23 00-0012 EA	30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	793.62	153.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.30	
26 09 23 00-0013 EA	60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,459.49	246.12
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	147.67	
26 09 23 00-0014 EA	100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,255.02	323.02
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.82	
26 09 23 00-0015 EA	200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	4,619.36	423.01
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	253.81	
<b>26 09 23 00-0016</b>	<b>4-Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0003)</small>		
26 09 23 00-0017 EA	20 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	779.36	153.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.30	
26 09 23 00-0018 EA	30 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	932.27	169.21
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.52	
26 09 23 00-0019 EA	60 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	1,761.19	276.88
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	166.13	
26 09 23 00-0020 EA	100 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	2,690.87	353.79
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	212.27	
26 09 23 00-0021 EA	200 Amperes, 4 Pole, NEMA 1 Enclosure, Electrically Held, Lighting Contactor.....	5,881.18	461.46
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	276.88	
<b>26 09 23 00-0022</b>	<b>NEMA 3R Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0002)</small>		
<b>26 09 23 00-0023</b>	<b>2-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0022)</small>		
26 09 23 00-0024 EA	30 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	943.97	138.44
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.06	
26 09 23 00-0025 EA	60 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,892.84	215.35
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.21	
26 09 23 00-0026 EA	100 Amperes, 2 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	2,841.71	292.26
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	175.36	
<b>26 09 23 00-0027</b>	<b>3-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors</b> <small>(26 09 23 00-0022)</small>		
26 09 23 00-0028 EA	30 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor.....	1,339.20	153.82
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.30	

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0029 EA 60 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,079.23 147.67	246.12
26 09 23 00-0030 EA 100 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,132.01 193.82	323.02
26 09 23 00-0031 EA 200 Amperes, 3 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,150.64 253.81	423.01
<b>26 09 23 00-0032 4-Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0022)</b>		
26 09 23 00-0033 EA 30 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,271.94 101.52	169.21
26 09 23 00-0034 EA 60 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,096.95 166.13	276.88
26 09 23 00-0035 EA 100 Amperes, 4 Pole, NEMA 3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,860.42 212.27	353.79
<b>26 09 23 00-0036 NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)</b>		
<b>26 09 23 00-0037 2-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)</b>		
26 09 23 00-0038 EA 20 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	950.60 73.84	123.05
26 09 23 00-0039 EA 30 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,204.73 83.06	138.44
26 09 23 00-0040 EA 60 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,305.17 129.21	215.35
26 09 23 00-0041 EA 100 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,449.70 175.36	292.26
26 09 23 00-0042 EA 200 Amperes, 2 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,628.01 230.73	384.55
<b>26 09 23 00-0043 3-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)</b>		
26 09 23 00-0044 EA 20 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	988.54 83.06	138.44
26 09 23 00-0045 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,274.91 92.30	153.82
26 09 23 00-0046 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,422.05 147.67	246.12
26 09 23 00-0047 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,617.25 193.82	323.02
26 09 23 00-0048 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,945.09 253.81	423.01
<b>26 09 23 00-0049 4-Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0036)</b>		
26 09 23 00-0050 EA 20 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,069.56 92.30	153.82
26 09 23 00-0051 EA 30 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,413.56 101.52	169.21
26 09 23 00-0052 EA 60 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,098.09 166.13	276.88
26 09 23 00-0053 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,427.43 212.27	353.79
26 09 23 00-0054 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,238.90 276.88	461.46
<b>26 09 23 00-0055 NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0002)</b>		
<b>26 09 23 00-0056 2-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)</b>		
26 09 23 00-0057 EA 60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,799.73 129.21	215.35
26 09 23 00-0058 EA 100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,968.84 175.36	292.26
26 09 23 00-0059 EA 200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,756.07 230.73	384.55
<b>26 09 23 00-0060 3-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)</b>		
26 09 23 00-0061 EA 60 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,997.06 147.67	246.12
26 09 23 00-0062 EA 100 Amperes, 3 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,224.38 193.82	323.02
<b>26 09 23 00-0063 4-Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactors (26 09 23 00-0055)</b>		
26 09 23 00-0064 EA 60 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,594.39 166.13	276.88
26 09 23 00-0065 EA 100 Amperes, 4 Pole, NEMA 12/3R Enclosure, Electrically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,194.18 212.27	353.79



	MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0066		Mechanically Held, Lighting Contactors <small>(26 09 23 00-0001)</small>		
26 09 23 00-0067		NEMA 1 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0066)</small>		
26 09 23 00-0068		2-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0067)</small>		
26 09 23 00-0069	EA	20 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	852.16 73.84	123.05
26 09 23 00-0070	EA	30 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	969.25 83.06	138.44
26 09 23 00-0071	EA	60 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,823.89 129.21	215.35
26 09 23 00-0072	EA	100 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,539.67 175.36	292.26
26 09 23 00-0073	EA	200 Amperes, 2 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,772.39 230.73	384.55
26 09 23 00-0074		3-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0067)</small>		
26 09 23 00-0075	EA	20 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	912.66 83.06	138.44
26 09 23 00-0076	EA	30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,041.30 92.30	153.82
26 09 23 00-0077	EA	60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,940.77 147.67	246.12
26 09 23 00-0078	EA	100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,709.09 193.82	323.02
26 09 23 00-0079	EA	200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,489.14 253.81	423.01
26 09 23 00-0080		4-Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0067)</small>		
26 09 23 00-0081	EA	20 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	986.50 92.30	153.82
26 09 23 00-0082	EA	30 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,111.47 101.52	169.21
26 09 23 00-0083	EA	60 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,267.80 166.13	276.88
26 09 23 00-0084	EA	100 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,172.15 212.27	353.79
26 09 23 00-0085	EA	200 Amperes, 4 Pole, NEMA 1 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,821.32 276.88	461.46
26 09 23 00-0086		NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0066)</small>		
26 09 23 00-0087		2-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0086)</small>		
26 09 23 00-0088	EA	20 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,261.31 73.84	123.05
26 09 23 00-0089	EA	30 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,450.54 83.06	138.44
26 09 23 00-0090	EA	60 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,786.45 129.21	215.35
26 09 23 00-0091	EA	100 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,902.84 175.36	292.26
26 09 23 00-0092	EA	200 Amperes, 2 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,097.19 230.73	384.55
26 09 23 00-0093		3-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0086)</small>		
26 09 23 00-0094	EA	20 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,335.14 83.06	138.44
26 09 23 00-0095	EA	30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,522.59 92.30	153.82
26 09 23 00-0096	EA	60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,903.34 147.67	246.12
26 09 23 00-0097	EA	100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,073.20 193.82	323.02
26 09 23 00-0098	EA	200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,815.81 253.81	423.01
26 09 23 00-0099		4-Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactors <small>(26 09 23 00-0086)</small>		
26 09 23 00-0100	EA	20 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,414.11 92.30	153.82
26 09 23 00-0101	EA	30 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,592.75 101.52	169.21
26 09 23 00-0102	EA	60 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,604.70 166.13	276.88

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0103 EA 100 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,908.71 212.27	353.79
26 09 23 00-0104 EA 200 Amperes, 4 Pole, NEMA 4 Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,110.56 276.88	461.46
<b>26 09 23 00-0105 NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0066)</b>		
<b>26 09 23 00-0106 2-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)</b>		
26 09 23 00-0107 EA 30 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	807.35 83.06	138.44
26 09 23 00-0108 EA 60 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,477.67 129.21	246.12
26 09 23 00-0109 EA 100 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,013.05 175.36	292.26
26 09 23 00-0110 EA 200 Amperes, 2 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,582.98 230.73	384.55
<b>26 09 23 00-0111 3-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)</b>		
26 09 23 00-0112 EA 30 Amperes, 3 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	861.97 92.30	153.82
<b>26 09 23 00-0113 4-Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactors (26 09 23 00-0105)</b>		
26 09 23 00-0114 EA 200 Amperes, 4 Pole, NEMA 12/3R Enclosure, Mechanically Held, Lighting Contactor ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,162.42 276.88	461.46
<b>26 09 23 00-0115 Combination Lighting Contactors (26 09 23)</b> Note: Up to 600 volt.		
<b>26 09 23 00-0116 Electrically Held, Combination Lighting Contactors (26 09 23 00-0115)</b>		
<b>26 09 23 00-0117 NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0116)</b>		
<b>26 09 23 00-0118 3-Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0117)</b>		
26 09 23 00-0119 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,626.05 101.52	169.21
26 09 23 00-0120 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,551.02 162.44	270.72
26 09 23 00-0121 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,096.53 213.20	355.33
26 09 23 00-0122 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,427.94 279.19	465.31
<b>26 09 23 00-0123 NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0116)</b>		
<b>26 09 23 00-0124 3-Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactors (26 09 23 00-0123)</b>		
26 09 23 00-0125 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,908.07 101.52	169.21
26 09 23 00-0126 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,526.81 162.44	270.72
26 09 23 00-0127 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,544.32 213.20	355.33
26 09 23 00-0128 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Electrically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,838.30 279.19	465.31
<b>26 09 23 00-0129 Mechanically Held, Combination Lighting Contactors (26 09 23 00-0115)</b>		
<b>26 09 23 00-0130 NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0129)</b>		
<b>26 09 23 00-0131 3-Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactors (26 09 23 00-0130)</b>		
26 09 23 00-0132 EA 30 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,772.41 101.52	169.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0133 EA 60 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,057.63 162.44	270.72
26 09 23 00-0134 EA 100 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,576.41 213.20	355.33
26 09 23 00-0135 EA 200 Amperes, 3 Pole, NEMA 1 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,791.58 279.19	465.31
<b>26 09 23 00-0136 NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <sup>(26 09 23 00-0129)</sup></b>		
<b>26 09 23 00-0137 3-Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactors <sup>(26 09 23 00-0136)</sup></b>		
26 09 23 00-0138 EA 30 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,055.83 101.52	169.21
26 09 23 00-0139 EA 60 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,036.24 162.44	270.72
26 09 23 00-0140 EA 100 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,025.60 213.20	355.33
26 09 23 00-0141 EA 200 Amperes, 3 Pole, NEMA 4 Enclosure, Mechanically Held, Combination Lighting Contactor With Fused Disconnect Switch ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,201.94 279.19	465.31
<b>26 09 23 00-0142 Photo-Cell, Relay, Lighting Arrester, Receptacle And Bracket <sup>(26 09 23)</sup></b>		
26 09 23 00-0143 EA 105 To 130 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.77 24.04	39.99
26 09 23 00-0144 EA 105 To 285 Volt Relay, Photo-Cell, Lighting Arrester, Receptacle And Bracket ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	170.64 24.04	39.99
<b>26 09 23 00-0145 Dimming Module System (Lutron Grafik Eye) <sup>(26 09 23)</sup></b>		
26 09 23 00-0146 EA 2,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-2)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,802.22 92.30	153.82
26 09 23 00-0147 EA 4,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-4)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,309.81 92.30	153.82
26 09 23 00-0148 EA 6,000 Watt Dimming Capacity, 120/277 Volt, Dimming Module System (Lutron Grafik Eye Hi-Power HP-6)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,826.46 92.30	153.82
<b>26 09 23 00-0149 Dimming Module Contol (Leviton) <sup>(26 09 23)</sup></b>		
26 09 23 00-0150 EA 5 Amperes, Wireless Dimming Module (Leviton WSD05-9D0)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	232.90 11.55	19.25
<b>26 09 23 00-0151 Light Control Panels <sup>(26 09 23)</sup></b>		
<b>26 09 23 00-0152 Lighting Control Panels (Watt Stopper) <sup>(26 09 23 00-0151)</sup></b>		
<b>26 09 23 00-0153 Lighting Control Panels (Watt Stopper) <sup>(26 09 23 00-0152)</sup></b>		
26 09 23 00-0154 EA 4 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-4) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,907.72 129.38	215.62
26 09 23 00-0155 EA 8 Relays, Surface Mount, Lighting Control Panel (Watt Stopper LP8S-8) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,804.21 138.62	231.03
26 09 23 00-0156 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8S-8-G) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,014.02 138.62	231.03
26 09 23 00-0157 EA 8 Relays, Surface Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24S-8) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,952.98 138.62	231.03
26 09 23 00-0158 EA 8 Relays, Surface Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24S-8-G) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,199.31 138.62	231.03
26 09 23 00-0159 EA 4 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-4) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,109.50 129.38	215.62
26 09 23 00-0160 EA 8 Relays, Flush Mount, Lighting Control Panel (Watt Stopper LP8F-8) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,263.35 138.62	231.03
26 09 23 00-0161 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card (Watt Stopper LP8F-8-G) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,509.44 138.62	231.03
26 09 23 00-0162 EA 8 Relays, Flush Mount, Lighting Control Panel With DIN Rail (Watt Stopper LP24F-8) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,051.42 138.62	231.03
26 09 23 00-0163 EA 8 Relays, Flush Mount, Lighting Control Panel With Group Switching Card And DIN Rail (Watt Stopper LP24F-8-G) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,297.73 138.62	231.03
<b>26 09 23 00-0164 Accessories For Lighting Control Panels (Watt Stopper) <sup>(26 09 23 00-0152)</sup></b>		
26 09 23 00-0165 EA Low Voltage Photocell For Watt Stopper Lighting Control Panels (Watt Stopper EM-24A2) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.99 23.10	38.51

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0166 EA Automatic Control Switch For Watt Stopper Lighting Control Panels (Watt Stopper AS-100-W).....	149.90	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.48	
26 09 23 00-0167 EA Low Voltage Momentary Switch For Watt Stopper Lighting Control Panels (Watt Stopper DCC2).....	86.61	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.48	
<b>26 09 23 00-0168 Lighting Control Panels (Synergy) (26 09 23 00-0151)</b>		
<b>26 09 23 00-0169 Lighting Control Panels (Synergy) (26 09 23 00-0168)</b>		
26 09 23 00-0170 EA 8 Relays, Surface Mount, Lighting Control Panel (Synergy SwitchPak SPAK 8S) .....	2,854.42	231.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.62	
<b>26 09 23 00-0171 Accessories For Lighting Control Panels (Synergy) (26 09 23 00-0168)</b>		
26 09 23 00-0172 EA Outdoor Photocell For Synergy SwitchPak Lighting Control Panels (Synergy LSA-APS-OL).....	692.55	38.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.10	
26 09 23 00-0173 EA Sweepswitch, Line Voltage Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy SSPL-20).....	268.44	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0174 EA Override Switch For Synergy SwitchPak Lighting Control Panels (Synergy LVPS-2BT).....	158.04	23.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.86	
<b>26 09 23 00-0175 Lighting Switching Panels (Lutron) (26 09 23 00-0151)</b>		
<b>26 09 23 00-0176 Lighting Switching Panels (Lutron) (26 09 23 00-0175)</b>		
26 09 23 00-0177 EA 8 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS8-FT).....	2,340.69	231.03
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	138.62	
26 09 23 00-0178 EA 12 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS12-FT).....	3,179.98	246.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	147.86	
26 09 23 00-0179 EA 16 Switch Legs, Surface Mount, Feed-Through, Lighting Switching Panels (Lutron Softswitch128® XPS16-FT).....	4,138.81	261.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	157.10	
<b>26 09 23 00-0180 Wireless (ZigBee) LED Lighting Control Panels (PlanLED GigaTera) (26 09 23 00-0151)</b>		
26 09 23 00-0181 EA 6 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC6Z).....	1,590.94	215.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.38	
26 09 23 00-0182 EA 12 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC12Z) .....	1,801.79	215.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.38	
26 09 23 00-0183 EA 18 Zone, Surface Mount, 0 To 10 Volt Dimming, Wireless (ZigBee) LED Lighting Control Panel (PlanLED GigaTera IPC18Z) .....	2,012.64	215.62
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	129.38	
<b>26 09 23 00-0184 Power Filters (26 09 23 00-0151)</b>		
26 09 23 00-0185 EA 600 Amperes, 480/277 Volt, 4 Conductor Power Filter With 80" X 60" X 17" Enclosure .....	41,093.21	1,281.80
26 09 23 00-0186 EA 200 Amperes, 480/277 Volt, 4 Conductor Power Filter With 25" X 40" X 17" Enclosure .....	24,232.35	557.29
<b>26 09 23 00-0187 Signal Filters (26 09 23 00-0151)</b>		
26 09 23 00-0188 EA 0.5 Amperes, 125 Volt, 500 Conductor Signal Filter With 19" X 36-3/4" X 19-1/8 Case.....	19,026.76	1,165.35
26 09 23 00-0189 EA 0.5 Amperes, 125 Volt, 200 Conductor Signal Filter With 29" X 40" X 11" Case.....	12,983.13	712.19
26 09 23 00-0190 EA 0.5 Amperes, 125 Volt, 3 Pair Conductor Signal Filter With 12" X 12" X 4" Case.....	7,248.58	413.47
26 09 23 00-0191 EA 5 Amperes, 24 Volt DC, 5 Volt, 2 - 1 Pair Conductor Signal Filter With Case.....	9,817.21	413.47
<b>26 09 23 00-0192 Lighting Control Devices (Encelium) (26 09 23)</b>		
26 09 23 00-0193 EA 8 Port, G4, Wired Energy Control Unit, GreenBus II™ (120 Volt) With Polaris 3D™ (Encelium EN-ECU-G4-P3D).....	16,029.52	154.02
Note: Excludes GB II cable.		
26 09 23 00-0194 EA Server, System Support Unit (SSU) (Encelium EN-SSU-1U) .....	7,360.79	154.02
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0195 EA Server, System Support Unit (SSU), VIRTUAL (Encelium EN-SW-SSUVIRT).....	3,859.91	154.02
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0196 EA Server, System Support Unit (SSU) With BACnet (Encelium EN-SSU-BIF-KIT) .....	16,123.43	154.02
Note: Excludes GB II and Ethernet cable.		
26 09 23 00-0197 EA Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK).....	133.87	19.25
Note: Excludes GB II cable.		
26 09 23 00-0198 EA Damp Rated, Isolated, Wired Luminaire Control Module (Encelium EN-iLCM-1R10V-GB2-BK/DR).....	203.23	19.25
Note: Excludes GB II cable.		
26 09 23 00-0199 EA Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK).....	261.33	38.51
Note: Excludes GB II cable.		
26 09 23 00-0200 EA Damp Rated, Wired Area Lighting Controller, Heavy Duty Relay With 0-10V Dimming (Encelium EN-ALC-1R10V-GB2-BK-DR).....	312.32	38.51
Note: Excludes GB II cable.		
26 09 23 00-0201 EA Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK).....	172.37	38.51
Note: Excludes GB II cable.		
26 09 23 00-0202 EA Damp Rated, Wired Sensor Interface Module (Encelium EN-SIM-AI/SPS-GB2-BK/DR).....	241.73	38.51
Note: Excludes GB II cable.		
26 09 23 00-0203 EA 16 Port, Rack Mounted, Wired Ethernet Switch (Encelium ETH-700) .....	601.10	77.01
Note: Excludes cable.		
26 09 23 00-0204 EA Rack Mounted, Wired Power Bar (Encelium PWR-700) .....	458.61	77.01





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0205	EA			Rack Mounted, Wired Power Bar With Surge Protection (Encelium PWR-800).....	816.81	77.01
26 09 23 00-0206	EA			Wall Mounted, 4U Mounting Rack (Encelium RCK-700).....	297.58	77.01
26 09 23 00-0207	EA			4 Port, 10/100 VPN, Dual WAN, Wired Router (Encelium RV042).....	912.24	77.01
				Note: Excludes cable.		
26 09 23 00-0208	EA			Wired BACnet Interface (Encelium BIF-600).....	9,378.73	308.04
				Note: Excludes cable.		
26 09 23 00-0209	EA			Wired AV Interface (Encelium EN-SW-AVINT).....	6,886.48	77.01
				Note: Excludes cable.		
26 09 23 00-0210	EA			Two Button, GB2, Wired Wall Station (Encelium EN-WS-2B-GB2-WH).....	264.02	19.25
				Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0211	EA			3 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC3-GB2-WH).....	320.37	19.25
				Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0212	EA			3 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WH).....	306.77	19.25
				Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0213	EA			5 Scene, GB2, Wired Wall Station (Encelium EN-WS-SC5-GB2-WH).....	320.37	19.25
				Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0214	EA			6 Zone, GB2, Wired Wall Station (Encelium EN-WS-ZC6-GB2-WH).....	306.77	19.25
				Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0215	EA			Rocker Switch, GB2, Wired Wall Station (Encelium EN-WS-R-GB2-WT).....	233.56	19.25
				Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0216	EA			Scene Controller, GB2, Wired Wall Station (Encelium EN-WS-SC3D-GB2-WT).....	320.37	19.25
				Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0217	EA			3 Zone Controller, GB2, Wired Wall Station (Encelium EN-WS-ZC3-GB2-WT).....	306.77	19.25
				Note: Includes white finish. Excludes GB II cable.		
26 09 23 00-0218	EA			Wired Key Switch Controller (Encelium KSW-300).....	228.07	19.25
				Note: Excludes GB II cable.		
26 09 23 00-0219	EA			Wall Station Surface Mount Kit (Encelium EN-SMK-ZB-WH).....	101.26	19.25
				Note: Includes white finish.		
26 09 23 00-0220	EA			1/2' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-0.5FT-GB2).....	91.27	38.51
26 09 23 00-0221	EA			1' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-01FT-GB2).....	91.87	38.51
26 09 23 00-0222	EA			5' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-05FT-GB2).....	96.67	38.51
26 09 23 00-0223	EA			10' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-10FT-GB2).....	101.41	38.51
26 09 23 00-0224	EA			15' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-15FT-GB2).....	107.07	38.51
26 09 23 00-0225	EA			20' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-20FT-GB2).....	112.17	38.51
26 09 23 00-0226	EA			25' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-25FT-GB2).....	118.44	38.51
26 09 23 00-0227	EA			50' Length, Pre-Terminated, GreenBus II™ Cable (Encelium EN-PTC-50FT-GB2).....	146.77	38.51
26 09 23 00-0228	EA			1,000' Box, GreenBus II™ Cable (Encelium EN-BC-1000FT-GB2).....	862.98	38.51
26 09 23 00-0229	EA			Box Of 50, Greenbus II™ Connectors (Encelium EN-CON-50-GB2).....	220.81	38.51
26 09 23 00-0230	EA			1,000' Box, Category 5, Network Cable (Encelium NWC-400-B).....	1,109.76	38.51
26 09 23 00-0231	EA			Indoor Wired Photo Sensor (Encelium PHS-700).....	670.40	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0232	EA			Outdoor Wired Photo Sensor (Encelium PHS-800).....	670.40	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0233	EA			Skylight Wired Photo Sensor (Encelium PHS-900).....	670.40	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0234	EA			450 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-0450).....	363.34	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0235	EA			1,500 SF, 360 Degree, Passive Infrared, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCP-1500).....	353.04	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0236	EA			2,500 SF, Wide View, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-WV00).....	359.91	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0237	EA			High-Bay, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-HBAY).....	394.23	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0238	EA			Long-Range, Passive Infrared, Wall Mounted, Wired Occupancy Sensor (Encelium SWP-LRNG).....	359.91	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0239	EA			120-277 Volt AC, No Neutral, Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSP-LNV).....	291.29	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0240	EA			High Bay, Passive Infrared, Fixture Mounted, Wired Occupancy Sensor (Encelium WSPM24V).....	306.98	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0241	EA			High Bay, Passive Infrared, Surface Mounted, Wired Occupancy Sensor (Encelium WSPM24V).....	306.98	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0242	EA			360 Degree Lens, Wired Occupancy Sensor (Encelium WSPLNS360).....	176.25	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0243	EA			Passive Infrared, Wall Switch Mounted, Wired Occupancy Sensor (Encelium PW-100-24).....	368.40	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0244	EA			Hallway, Wired Occupancy Sensor (Encelium HW-13).....	508.29	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0245	EA			500 SF, 180 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-0500).....	449.13	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0246	EA			1,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-1000).....	476.58	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0247	EA			2,000 SF, 360 Degree, (Multi) Passive Infrared And Ultrasonic, Ceiling Mounted, Wired Occupancy Sensor (Encelium SCM-2000).....	490.32	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0248	EA			1,200 SF, (Multi) Passive Infrared And Ultrasonic, Wall Mounted, Wired Occupancy Sensor (Encelium SWM-1200).....	445.70	77.01
				Note: Excludes GB II cable.		
26 09 23 00-0249	EA			120-277 Volt AC, No Neutral, Passive Infrared And Ultrasonic, Wall Switch Mounted, Wired Occupancy Sensor (Encelium SSM-LNV).....	377.08	77.01
				Note: Excludes GB II cable.		

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0250 EA 500 SF, 180 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC05-M0W) ..... Note: Excludes GB II cable.	463.89	77.01
26 09 23 00-0251 EA 1,200 SF, 360 Degree, Dual Technology, Wall Mounted, Wired Occupancy Sensor (Encelium OSW12-M0W) ..... Note: Excludes GB II cable.	460.30	77.01
26 09 23 00-0252 EA 2,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC20-M0W) ..... Note: Excludes GB II cable.	507.12	77.01
26 09 23 00-0253 EA 1,000 SF, 360 Degree, Dual Technology, Ceiling Mounted, Wired Occupancy Sensor (Encelium OSC10-M0W) ..... Note: Excludes GB II cable.	492.73	77.01
26 09 23 00-0254 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium DW-100-24) ..... Note: Excludes GB II cable.	527.91	77.01
26 09 23 00-0255 EA Dual Technology, Wall Switch Mounted, Wired Occupancy Sensor (Encelium WSD-PDT-LV) ..... Note: Excludes GB II cable.	492.87	77.01
26 09 23 00-0256 EA Wide View, Dual Technology, Wired Occupancy Sensor (Encelium WV-PDT) ..... Note: Excludes GB II cable.	492.87	77.01
26 09 23 00-0257 EA 10 Amperes, 120 Volt, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRU1C) ..... Note: Excludes GB II cable.	334.73	77.01
26 09 23 00-0258 EA 10A, 277V, Single Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESRH1C) ..... Note: Excludes GB II cable.	356.30	77.01
26 09 23 00-0259 EA 20 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR01P) ..... Note: Excludes GB II cable.	600.62	77.01
26 09 23 00-0260 EA 20A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR02P) ..... Note: Excludes GB II cable.	640.22	77.01
26 09 23 00-0261 EA 10 Amperes, 120 Volt, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2401D) ..... Note: Excludes GB II cable.	480.46	77.01
26 09 23 00-0262 EA 10A, 277V, Dual Relay, UL924 Automatic Load Control Relay (ALCR) (Encelium ESR2402D) ..... Note: Excludes GB II cable.	499.59	77.01
26 09 23 00-0263 EA 24 Circuit, Relay Module (Encelium EN-RPM-24C-GB2) ..... Note: Excludes GB II cable and enclosure.	1,406.15	154.02
26 09 23 00-0264 EA 24 Circuit, 120/277V, Relay Panel With Relay Module (Encelium EN-RP-24C-GB2-120/277V) ..... Note: Excludes GB II cable.	4,448.05	616.08
26 09 23 00-0265 EA 12 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA12R120-347V) ..... Note: Excludes GB II cable.	6,377.60	616.08
26 09 23 00-0266 EA 24 Relays, 24 Circuit, 120-347V, Emergency Relay Panel (Encelium EN-RPA24R120-347V) ..... Note: Excludes GB II cable.	8,307.12	616.08
26 09 23 00-0267 EA Wired Phase Cut Dimming Module (Encelium EN-PCDM-GB2) ..... Note: Excludes GB II cable.	703.07	77.01
26 09 23 00-0268 EA Wired DALI Bridge (Encelium EN-DB-1L-GB2) ..... Note: Excludes GB II cable.	801.13	77.01
26 09 23 00-0269 EA Wireless Manager (Encelium EN-WM-ZB-P3D) ..... Note: Includes white finish.	2,114.93	77.01
26 09 23 00-0270 EA Wireless Control Module (Encelium EN-WCM-ZB) ..... Note: Includes white finish.	299.25	38.51
26 09 23 00-0271 EA Damp Rated, Wireless Control Module (Encelium EN-WCM-ZB-DR) ..... Note: Includes white finish.	351.54	38.51
26 09 23 00-0272 EA Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK) ..... Note: Includes white finish.	352.84	38.51
26 09 23 00-0273 EA Damp Rated, Wireless Area Lighting Controller (Encelium EN-ALC-ZB-BK-DR) ..... Note: Includes white finish.	365.17	38.51
26 09 23 00-0274 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0275 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0276 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0277 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0278 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0279 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) ..... Note: Includes white finish.	269.24	19.25
26 09 23 00-0280 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) ..... Note: Includes white finish.	585.42	77.01
26 09 23 00-0281 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB) ..... Note: Includes white finish.	376.26	77.01
26 09 23 00-0282 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB) ..... Note: Includes white finish.	376.26	77.01
26 09 23 00-0283 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR) ..... Note: Includes white finish.	428.55	77.01
26 09 23 00-0284 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR) ..... Note: Includes white finish.	428.55	77.01
26 09 23 00-0285 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0286 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0287 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0288 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0289 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0290 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) ..... Note: Includes white finish.	269.24	19.25
26 09 23 00-0291 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) ..... Note: Includes white finish.	585.42	77.01
26 09 23 00-0292 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0293 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0294 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0295 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) ..... Note: Includes white finish.	269.24	19.25
26 09 23 00-0296 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) ..... Note: Includes white finish.	585.42	77.01
26 09 23 00-0297 EA 450 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB) ..... Note: Includes white finish.	376.26	77.01
26 09 23 00-0298 EA 1,500 SF, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB) ..... Note: Includes white finish.	376.26	77.01
26 09 23 00-0299 EA 1,500 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-1500-ZB-DR) ..... Note: Includes white finish.	428.55	77.01
26 09 23 00-0300 EA 450 SF, Damp Rated, Ceiling Mounted, Wireless Sensor With Photocell (Encelium EN-SCPPH-0450-ZB-DR) ..... Note: Includes white finish.	428.55	77.01
26 09 23 00-0301 EA 2 Button Switch, Wireless Wall Station (Encelium EN-WS-2B-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0302 EA 3 Scene Control, Wireless Wall Station (Encelium EN-WS-SC3-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0303 EA 3 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC3-ZB-WH) ..... Note: Includes white finish.	260.75	19.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0304 EA 5 Scene Control, Wireless Wall Station (Encelium EN-WS-SC5-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0305 EA 6 Zone Control, Wireless Wall Station (Encelium EN-WS-ZC6-ZB-WH) ..... Note: Includes white finish.	260.75	19.25
26 09 23 00-0306 EA Single Zone On/Off, Wireless Rocker Switch (Encelium WSS0S-DOW) .....	269.24	19.25
26 09 23 00-0307 EA 315 MHz, Wireless Photocell (Encelium TAP-17C) .....	585.42	77.01
26 09 23 00-0308 EA Ceiling Mounted, Wireless Mounting Kit (Encelium EN-SCPPH-MK-ZB) .....	184.08	77.01
26 09 23 00-0309 EA Wireless Ethernet Transceiver Unit (cns-enocean Connectivity Kit) .....	757.43	77.01
<b>26 09 23 00-0310 Lighting Control Sensors</b> <small>(26 09 23)</small>		
26 09 23 00-0311 EA DALIMulti Sensor, 600 SF (Fifthlight FLT-MTS6-DALI) .....	401.34	34.65
26 09 23 00-0312 EA DALIMulti Sensor, 1,200 SF (Fifthlight FLT-MTS12-DALI) .....	401.34	34.65
26 09 23 00-0313 EA Smart Multi-sensor (LG 9SD131VVA.ALWB000) .....	353.15	34.65
26 09 23 00-0314 EA Zigbee Dongle (LG 9CM2315VD2.AWP01U) .....	108.25	23.10
26 09 23 00-0315 EA Clip for Performance Troffer (LG BKTTR015122.BUAAWAA) .....	9.71	
26 09 23 00-0316 EA Clip for Downlight (BKTCE015123.BUAAWAA) .....	69.62	
26 09 23 00-0317 EA Clip for Tube (LG BKTU015121.BUAAWAA) .....	13.22	
<b>26 09 23 00-0318 Radio Controlled Devices (Lutron)</b> <small>(26 09 23)</small>		
<b>26 09 23 00-0319 Tabletop Transmitters For Radio Controlled Devices</b> <small>(26 09 23 00-0318)</small>		
<b>26 09 23 00-0320 Switched Lighting Controls, Tabletop Wireless Transmitter</b> <small>(26 09 23 00-0319)</small>		
26 09 23 00-0321 EA One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-SW-B-WH) .....	519.38	23.10
26 09 23 00-0322 EA Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2SW-B-WH) .....	673.26	23.10
26 09 23 00-0323 EA Three Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3SW-B-WH) .....	846.37	23.10
<b>26 09 23 00-0324 Dimmable Lighting Controls, Tabletop Wireless Transmitter</b> <small>(26 09 23 00-0319)</small>		
26 09 23 00-0325 EA One Zone Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-B-WH) .....	519.38	23.10
26 09 23 00-0326 EA Two Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-B-WH) .....	615.56	23.10
26 09 23 00-0327 EA Three Zones Of Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-B-WH) .....	846.37	23.10
26 09 23 00-0328 EA One Zone Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L-WH) .....	519.38	23.10
26 09 23 00-0329 EA Two Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2L-WH) .....	673.26	23.10
26 09 23 00-0330 EA Three Zones Of Four Pre Set Lighting Levels And Dimmable Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-3L-WH) .....	846.37	23.10
<b>26 09 23 00-0331 Dimmable And Switched Lighting Controls, Tabletop Wireless Transmitter</b> <small>(26 09 23 00-0319)</small>		
26 09 23 00-0332 EA One Zone Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LSW-B-WH) .....	673.26	23.10
26 09 23 00-0333 EA Two Zones Of Dimmable Lighting Controls And One Zone Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LSW-B-WH) .....	846.37	23.10
26 09 23 00-0334 EA One Zone Of Dimmable Lighting Controls And Two Zones Of On/Off Switched Lighting Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2SW-B-WH) .....	846.37	23.10
<b>26 09 23 00-0335 Dimmable Lighting Controls And Shade Or Projection Controls, Tabletop Wireless Transmitter</b> <small>(26 09 23 00-0319)</small>		
26 09 23 00-0336 EA One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-C3-B- WH) .....	519.38	23.10
26 09 23 00-0337 EA Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2C3- B-WH) .....	673.26	23.10
26 09 23 00-0338 EA One Zone Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC2-B-WH) .....	615.56	23.10
26 09 23 00-0339 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Output Switch Projection Screen Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC2-B-WH) .....	750.20	23.10
26 09 23 00-0340 EA One Zone Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LC3-B-WH) .....	673.26	23.10
26 09 23 00-0341 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LC3-B-WH) .....	807.91	23.10
26 09 23 00-0342 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Open/Stop/Close Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2C3-B-WH) .....	673.26	23.10
<b>26 09 23 00-0343 Dimmable Lighting Controls And Sivoia QED Shade Controls, Tabletop Wireless Transmitter</b> <small>(26 09 23 00-0319)</small>		
26 09 23 00-0344 EA One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-Q-B-WH) .....	519.38	23.10
26 09 23 00-0345 EA Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2Q-B-WH) .....	673.26	23.10
26 09 23 00-0346 EA One Zone Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQ-B-WH) .....	673.26	23.10
26 09 23 00-0347 EA Two Zones Of Dimmable Lighting Controls And One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-2LQ-B-WH) .....	846.37	23.10
26 09 23 00-0348 EA One Zone Of Dimmable Lighting Controls And Two Zones Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-L2Q-B-WH) .....	673.26	23.10

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0349 EA One Zone Of Dimmable Lighting Controls, One Zone Of Sivoia QED Open/Stop/Preset Motorized Shade Controls, One Zone Of Output Controls, Tabletop Wireless Transmitter (Lutron RTA-TX-LQC2-B-WH) .....	846.37	23.10
<b>26 09 23 00-0350 Output Switch Closure Controls, Tabletop Wireless Transmitter (26 09 23 00-0319)</b>		
26 09 23 00-0351 EA Five Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5-WH).....	519.38	23.10
26 09 23 00-0352 EA Nine Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C5C4-WH).....	673.26	23.10
26 09 23 00-0353 EA Thirteen Buttons Of Output Switch Closures For Grafik Eye Systems, Tabletop Wireless Transmitter (Lutron RTA-TX-C52C4-WH).....	846.37	23.10
<b>26 09 23 00-0354 Accessories For Tabletop Wireless Transmitter (26 09 23 00-0319)</b>		
26 09 23 00-0355 EA Security Mounting Brackets For Tabletop Wireless Transmitters (Lutron RTA-SEC-WH).....	115.45	23.10
<b>26 09 23 00-0356 Wall Box Transmitters For Radio Controlled Devices (26 09 23 00-0318)</b>		
26 09 23 00-0357 EA On/Off Switched Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2BSW-WH).....	480.91	23.10
26 09 23 00-0358 EA Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-2B-WH).....	519.38	23.10
26 09 23 00-0359 EA Four Preset Lighting Level And Dimmable Lighting Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-5B-WH).....	519.38	23.10
26 09 23 00-0360 EA Open/Stop/Close Motorized Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C3LB-WH).....	519.38	23.10
26 09 23 00-0361 EA Up/Down Projection Screen Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-C2LB-WH).....	519.38	23.10
26 09 23 00-0362 EA Open/Stop/Close Sivoia QED Shade Controls, Wall Box Wireless Transmitter (Lutron RTA-WX-Q3LB-WH).....	519.38	23.10
<b>26 09 23 00-0363 Interfaces For Radio Controlled Devices (26 09 23 00-0318)</b>		
26 09 23 00-0364 EA Incandescent And Magnetic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	480.91	23.10
26 09 23 00-0365 EA Lutron Tu-Wire Ballast Interface For Radio Controlled Devices (Lutron FDI-INC-2000).....	480.91	23.10
26 09 23 00-0366 EA Electronic Low Voltage Lighting Interface For Radio Controlled Devices (Lutron FDI-ELV-1000).....	480.91	23.10
26 09 23 00-0367 EA Sivoia QED Controllable Window Treatments Contact Closure Interface For Radio Controlled Devices (Lutron SVQ-CCI-8).....	969.48	23.10
26 09 23 00-0368 EA RS-232 Interface For Radio Controlled Devices (Lutron RTA-RS232).....	1,384.95	23.10
26 09 23 00-0369 EA Switch Closure Input Interface For Radio Controlled (Lutron RTA-SCI).....	1,384.95	23.10
<b>26 09 23 00-0370 Fluorescent Controllers For Radio Controlled Devices (26 09 23 00-0318)</b>		
26 09 23 00-0371 EA On/Off Switched Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-SW).....	615.56	23.10
26 09 23 00-0372 EA Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F).....	692.50	23.10
26 09 23 00-0373 EA Switch Closures And Dimmable Fluorescent Controllers For Radio Controlled Devices (Lutron RTA-RX-F-SC).....	807.91	23.10
<b>26 09 23 00-0374 AC Motor Group Controllers For Radio Controlled Devices (26 09 23 00-0318)</b>		
26 09 23 00-0375 EA Up To Two Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-2M-GC).....	904.08	23.10
26 09 23 00-0376 EA Up To Four Motors, AC Motor Group Controllers For Radio Controlled Devices (Lutron WC-4M-GC).....	1,240.69	23.10
<b>26 09 23 00-0377 RF Wireless Technology, Switches And Dimmers (Lutron® Maestro Wireless®) (26 09 23)</b>		
<b>26 09 23 00-0378 RF Wireless Technology, Switches (Lutron® Maestro Wireless®) (26 09 23 00-0377)</b>		
26 09 23 00-0379 EA 6 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Electronic Switch (Lutron® Maestro Wireless® MRF2-6ANS).....	150.14	30.80
26 09 23 00-0380 EA 8 Amperes Lighting, 5.8 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8ANS-120).....	174.63	30.80
26 09 23 00-0381 EA 8 Amperes Lighting, 3 Amperes Fan, RF Wireless Technology, Spec Grade Electronic Switch (Lutron® Maestro Wireless® MRF2-8S-DV).....	265.90	30.80
26 09 23 00-0382 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS).....	109.29	30.80
26 09 23 00-0383 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MA-AS-277).....	130.68	30.80
26 09 23 00-0384 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS).....	118.27	30.80
26 09 23 00-0385 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Switch (Lutron® Maestro Wireless® MSC-AS-277).....	140.10	30.80
<b>26 09 23 00-0386 RF Wireless Technology, Dimmers (Lutron® Maestro Wireless®) (26 09 23 00-0377)</b>		
26 09 23 00-0387 EA 600 Watt, 120 Volt, RF Wireless Technology, Incandescent Dimmer (Lutron® Maestro Wireless® MRF2-600M).....	144.49	30.80
26 09 23 00-0388 EA 600 Watt, 120 Volt, RF Wireless Technology, Magnetic Low Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6MLV).....	155.79	30.80
26 09 23 00-0389 EA 600 Watt, 120 Volt, RF Wireless Technology, Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-6ND-120).....	184.05	30.80
26 09 23 00-0390 EA 1,000 Watt, 120 Volt, RF Wireless Technology, Spec Grade Dimmer (Lutron® Maestro Wireless® MRF2-10D-120).....	199.45	38.51
26 09 23 00-0391 EA 600 Watt, 120 Volt, RF Wireless Technology, Electronic Low-Voltage Dimmer (Lutron® Maestro Wireless® MRF2-6ELV-120).....	239.62	30.80
26 09 23 00-0392 EA 120 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R).....	87.51	30.80
26 09 23 00-0393 EA 277 Volt, Claro® Gloss Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MA-R-277).....	103.05	30.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0394 EA 120 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD) .....	93.17	30.80
26 09 23 00-0395 EA 277 Volt, Satin Colors® Satin Finish, RF Wireless Technology, Companion Dimmer (Lutron® Maestro Wireless® MSC-AD-277) .....	108.70	30.80
26 09 23 00-0396 EA 6 Amperes, 120/277 Volt, RF Wireless Technology, 3-Wire Fluorescent Spec Grade Neutral Wire Dimmer (Lutron® Maestro Wireless® MRF2-F6AN-DV) .....	277.35	53.90
<b>26 09 23 00-0397 Removal And Reinstallation Of Occupancy Sensors</b> <small>(26 09 23)</small>		
26 09 23 00-0398 EA Removal And Reinstallation Of Ceiling Mounted Occupancy Sensor .....	103.97	
Note: Includes storing and cleaning.		
26 09 23 00-0399 EA Removal And Reinstallation Of Wall Mounted Occupancy Sensor .....	69.31	
Note: Includes storing and cleaning.		
<b>26 09 23 00-0400 Occupancy Sensors (Watt Stopper)</b> <small>(26 09 23)</small>		
Note: Includes testing of new devices and certification.		
<b>26 09 23 00-0401 Occupancy Sensors</b> <small>(26 09 23 00-0400)</small>		
Note: Exclude boxes.		
<b>26 09 23 00-0402 Wall Switch Mounted Occupancy Sensors</b> <small>(26 09 23 00-0401)</small>		
<b>26 09 23 00-0403 Ultrasonic, Wall Switch Mounted Occupancy Sensors</b> <small>(26 09 23 00-0402)</small>		
26 09 23 00-0404 EA Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-100) .....	134.46	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0405 EA Dual Relay, Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper UW-200) .....	157.41	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
<b>26 09 23 00-0406 Passive Infrared, Wall Switch Mounted Occupancy Sensors</b> <small>(26 09 23 00-0402)</small>		
26 09 23 00-0407 EA Nightlight, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WN-100) .....	112.26	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0408 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WS) .....	105.30	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0409 EA Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-100) .....	118.29	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0410 EA Dual Relay, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper PW-200) .....	135.84	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0411 EA Dimmable, Passive Infrared, Wall Switch Mounted Occupancy Sensor (Watt Stopper WD) .....	134.40	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
<b>26 09 23 00-0412 Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensors</b> <small>(26 09 23 00-0402)</small>		
26 09 23 00-0413 EA Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-100) .....	192.37	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0414 EA Dual Relay, Passive Infrared And Ultrasonic, Wall Switch Mounted Occupancy Sensor (Watt Stopper DW-200) .....	206.89	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
<b>26 09 23 00-0415 Wall Switch Mounted Occupancy Sensor Accessories</b> <small>(26 09 23 00-0402)</small>		
26 09 23 00-0416 EA Single Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP) .....	9.09	3.85
26 09 23 00-0417 EA One Side Blank, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP) .....	10.24	3.85
26 09 23 00-0418 EA Switch Option, Double Gang, Plastic Switch Plate Cover For Occupancy Sensors (Watt Stopper ASP) .....	10.24	3.85
<b>26 09 23 00-0419 Ceiling Mounted Occupancy Sensors</b> <small>(26 09 23 00-0401)</small>		
<b>26 09 23 00-0420 Ultrasonic, Ceiling Mounted Occupancy Sensors</b> <small>(26 09 23 00-0419)</small>		
<b>26 09 23 00-0421 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors</b> <small>(26 09 23 00-0420)</small>		
26 09 23 00-0422 EA 500 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-500A) .....	184.21	34.65
26 09 23 00-0423 EA 1,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-1000A) .....	209.18	34.65
26 09 23 00-0424 EA 2,000 SF 360 Degree Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000A) .....	234.33	34.65
26 09 23 00-0425 EA 90 LF Hallway Coverage, 25 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper W-2000H) .....	232.06	34.65
<b>26 09 23 00-0426 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors</b> <small>(26 09 23 00-0420)</small>		
26 09 23 00-0427 EA 600 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-605) .....	198.99	34.65
26 09 23 00-0428 EA 1,100 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1105) .....	224.32	34.65
26 09 23 00-0429 EA 2,205 SF 360 Degree Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2205) .....	248.30	34.65
26 09 23 00-0430 EA 90 LF Hallway Coverage, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2255) .....	252.36	34.65
26 09 23 00-0431 EA 600 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-600) .....	214.13	34.65
26 09 23 00-0432 EA 1,100 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-1100) .....	240.08	34.65
26 09 23 00-0433 EA 2,200 SF 360 Degree Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2200) .....	265.93	34.65

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0434 EA 90 LF Hallway Coverage, Isolated Relay, 32 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper WT-2250).....	273.38	34.65
<b>26 09 23 00-0435 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0420)</b>		
26 09 23 00-0436 EA 500 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-1).....	206.31	34.65
26 09 23 00-0437 EA 1,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-2).....	236.56	34.65
26 09 23 00-0438 EA 2,000 SF 360 Degree Coverage, Isolated Relay, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-300-3).....	261.89	34.65
26 09 23 00-0439 EA 500 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-1).....	195.16	34.65
26 09 23 00-0440 EA 1,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-2).....	233.29	34.65
26 09 23 00-0441 EA 2,000 SF 360 Degree Coverage, Panel Integrating, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-305-3).....	245.64	34.65
26 09 23 00-0442 EA 500 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-1).....	207.88	34.65
26 09 23 00-0443 EA 1,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-2).....	229.83	34.65
26 09 23 00-0444 EA 2,000 SF 360 Degree Coverage, Line Voltage, 40 KHZ Ultrasonic, Ceiling Mounted Occupancy Sensor (Watt Stopper UT-355-3).....	256.94	34.65
<b>26 09 23 00-0445 Passive Infrared, Ceiling Mounted Occupancy Sensors (26 09 23 00-0419)</b>		
26 09 23 00-0446 EA 30 Segment, 5 Level Lens, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper WPIR).....	155.07	34.65
26 09 23 00-0447 EA HVAC/BAS, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-12/24).....	158.02	34.65
26 09 23 00-0448 EA Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-205).....	165.01	34.65
26 09 23 00-0449 EA Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-355).....	183.74	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0450 EA Low Profile, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-305).....	186.01	34.65
26 09 23 00-0451 EA Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-200).....	195.82	34.65
26 09 23 00-0452 EA Low Profile, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper CI-300).....	211.51	34.65
<b>26 09 23 00-0453 Passive Infrared And Ultrasonic, Ceiling Mounted Occupancy Sensors (26 09 23 00-0419)</b>		
26 09 23 00-0454 EA 1,000 SF 360 Degree Coverage, Line Voltage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-355).....	248.08	34.65
26 09 23 00-0455 EA 1,000 SF 360 Degree Coverage, Isolated Relay, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-300).....	281.28	34.65
26 09 23 00-0456 EA 1,000 SF 360 Degree Coverage, Passive Infrared, Ceiling Mounted Occupancy Sensor (Watt Stopper DT-305).....	241.04	34.65
<b>26 09 23 00-0457 Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0401)</b>		
<b>26 09 23 00-0458 Passive Infrared, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0457)</b>		
26 09 23 00-0459 EA 120 LF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100-1/3).....	301.18	34.65
26 09 23 00-0460 EA 2,000 SF Coverage, Low Temperature, Passive Infrared, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper CB-100).....	301.18	34.65
<b>26 09 23 00-0461 Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensors (26 09 23 00-0457)</b>		
26 09 23 00-0462 EA 2,000 SF Coverage, Passive Infrared And Ultrasonic, Ceiling/Wall Mounted Occupancy Sensor (Watt Stopper DT-200).....	281.28	34.65
<b>26 09 23 00-0463 Occupancy Sensor Power Packs (26 09 23 00-0400)</b>		
<b>26 09 23 00-0464 Single Voltage, Occupancy Sensor Power Packs (26 09 23 00-0463)</b>		
26 09 23 00-0465 EA 220 To 240 Volt AC, 20 Amperes, Occupancy Sensor Power Pack (Watt Stopper B230E-P).....	108.03	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.48	
26 09 23 00-0466 EA 347 Volt AC, 15 Amperes, Occupancy Sensor Power Pack (Watt Stopper B347D-P).....	99.60	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.48	
<b>26 09 23 00-0467 Auxiliary, Occupancy Sensor Power Packs (26 09 23 00-0463)</b>		
26 09 23 00-0468 EA 120, 277 Or 347 Volt AC, 20 Amperes, Auxiliary Occupancy Sensor Power Pack (Watt Stopper S120/277/347E-P).....	92.65	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.48	
<b>26 09 23 00-0469 Universal Voltage, Power Packs For Occupancy Sensors (26 09 23 00-0463)</b>		
26 09 23 00-0470 EA 120/277 Volt AC, 20 Amperes, Dual Voltage, Occupancy Sensor Power Pack (Watt Stopper BZ-100).....	118.08	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.48	
<b>26 09 23 00-0471 Form C, Occupancy Sensor Power Packs (26 09 23 00-0463)</b>		
26 09 23 00-0472 EA 120 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A120C-P).....	108.41	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0473 EA 277 Volt AC, Form C, Occupancy Sensor Power Pack (Watt Stopper A277C-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.49 18.48	30.80
<b>26 09 23 00-0474 Two Relay, Occupancy Sensor Power Packs (26 09 23 00-0463)</b>		
26 09 23 00-0475 EA 120 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C120E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.85 18.48	30.80
26 09 23 00-0476 EA 277 Volt AC, Two Relay, Occupancy Sensor Power Pack (Watt Stopper C277E-P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.53 18.48	30.80
<b>26 09 23 00-0477 Occupancy Sensor Power Supplies (26 09 23 00-0463)</b>		
26 09 23 00-0478 EA 120 Volt AC, Occupancy Sensor Power Supply (Watt Stopper BZ-150) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.97 18.48	30.80
26 09 23 00-0479 EA 277 Volt AC, Occupancy Sensor Power Supply (Watt Stopper AT-277) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	256.42 18.48	30.80
<b>26 09 23 00-0480 Intelligent, Occupancy Sensor Power Packs (26 09 23 00-0463)</b>		
26 09 23 00-0481 EA 120/277 Volt AC, Two Relays, Two Dimming Channels, Intelligent Occupancy Sensor Power Pack (Watt Stopper LC-100).....	334.79	30.80
<b>26 09 23 00-0482 DIN Rail Mounted, Occupancy Sensor Power Packs (26 09 23 00-0463)</b>		
26 09 23 00-0483 EA 120/230/277 Volt AC, DIN Rail Mounted, Occupancy Sensor Power Pack (Watt Stopper BD-100).....	117.12	30.80
<b>26 09 23 00-0484 Occupancy Sensor Accessories (26 09 23 00-0400)</b>		
<b>26 09 23 00-0485 Protective Cages For Occupancy Sensors (26 09 23 00-0484)</b>		
26 09 23 00-0486 EA Protective Cage For Occupancy Sensors (Watt Stopper WC).....	64.50	11.56
<b>26 09 23 00-0487 Mounting Brackets For Occupancy Sensors (26 09 23 00-0484)</b>		
26 09 23 00-0488 EA Mounting Bracket For Occupancy Sensor (Watt Stopper MB)..... Note: Includes J-plate for mounting to HID fixtures or L-plate for mounting to fluorescent fixtures, walls, shelves and girders.	55.05	19.25
<b>26 09 23 00-0489 Occupancy/Lighting Logger (26 09 23 00-0484)</b>		
Note: Logs when a space is occupied/vacant and when lighting is on/off.		
26 09 23 00-0490 EA Occupancy/Lighting Logger With Connector Cable (Watt Stopper IT-200).....	469.76	65.46
<b>26 09 23 00-0491 Digital Time Light Switches (26 09 23 00-0400)</b>		
26 09 23 00-0492 EA Preset Time, Wall Switch Mounted, Digital Time Light Switch (Watt Stopper TS-400).....	102.01	15.41
<b>26 09 23 00-0493 Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (26 09 23 00-0400)</b>		
26 09 23 00-0494 EA Digital High/Low Passive Infrared Fixture Integrated Outdoor Sensor (Watt Stopper FSP-211) .....	231.59	50.05
<b>26 09 23 00-0495 Occupancy Sensors (Sensor Switch) (26 09 23)</b>		
Note: Includes testing of new devices and certification.		
<b>26 09 23 00-0496 Occupancy Sensors (Sensor Switch) (26 09 23 00-0495)</b>		
Note: Exclude boxes		
<b>26 09 23 00-0497 Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)</b>		
<b>26 09 23 00-0498 Passive Infrared, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0497)</b>		
26 09 23 00-0499 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD LV).....	223.15	15.41
26 09 23 00-0500 EA Nightlight, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD NL) .....	159.03	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0501 EA Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD) .....	151.98	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0502 EA Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD SA).....	151.98	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0503 EA 2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD 2P) .....	191.09	15.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	
26 09 23 00-0504 EA Single Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS).....	191.09	15.41
26 09 23 00-0505 EA 2-Pole, Passive Infrared, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS 2P).....	231.18	15.41
26 09 23 00-0506 EA Single Pole, Passive Infrared, Internally Powered, Wall Switch Mount Occupancy Sensor (Sensor Switch IPD) .....	191.09	15.41
<b>26 09 23 00-0507 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch) (26 09 23 00-0497)</b>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0508 EA Single Pole, Low Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT LV).....	287.26	15.41

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0509	EA	Nightlight, Line Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT NL) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	223.15 9.24	15.41
26 09 23 00-0510	EA	Single Pole, Line Voltage, Fully Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.35 9.24	15.41
26 09 23 00-0511	EA	Single Pole, Line Voltage, Semi-Automatic, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT SA) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	218.35 9.24	15.41
26 09 23 00-0512	EA	2-Pole, Line Voltage, Passive Infrared, Wall Switch Mount Occupancy Sensor (Sensor Switch WSD PDT 2P) ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	255.21 9.24	15.41
26 09 23 00-0513	EA	Single Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT).....	255.21	15.41
26 09 23 00-0514	EA	2-Pole, Dual Technology, Large Area, Wall Switch Mount Occupancy Sensor (Sensor Switch LWS PDT 2P).....	274.44	15.41
<b>26 09 23 00-0515</b>		<b>Wall Switch Mount Occupancy Sensor Accessories (Sensor Switch)</b> <sup>(26 09 23 00-0497)</sup>		
26 09 23 00-0516	EA	One Blank, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX).....	20.52	3.85
26 09 23 00-0517	EA	One Switch, 2-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX).....	20.52	3.85
26 09 23 00-0518	EA	Two Blanks, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS BPX 3).....	39.76	3.85
26 09 23 00-0519	EA	Two Switches, 3-Gang, Plastic Switch Plate Cover For Occupancy Sensors (Sensor Switch WS SPX 3).....	39.76	3.85
<b>26 09 23 00-0520</b>		<b>360 Degree View Occupancy Sensors (Sensor Switch)</b> <sup>(26 09 23 00-0496)</sup>		
<b>26 09 23 00-0521</b>		<b>Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch)</b> <sup>(26 09 23 00-0520)</sup>		
		Note: One photocell or dimming option per occupancy sensor		
26 09 23 00-0522	EA	Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 9).....	261.66	34.65
26 09 23 00-0523	EA	Low Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 9).....	261.66	34.65
26 09 23 00-0524	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 9).....	261.66	34.65
26 09 23 00-0525	EA	Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	277.69 20.79	34.65
26 09 23 00-0526	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	277.69 20.79	34.65
26 09 23 00-0527	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	226.39 20.79	34.65
26 09 23 00-0528	EA	2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 9 2P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	341.80 20.79	34.65
26 09 23 00-0529	EA	2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 9 2P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	341.80 20.79	34.65
26 09 23 00-0530	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 9 2P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	290.51 20.79	34.65
26 09 23 00-0531	EA	Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM 10).....	261.66	34.65
26 09 23 00-0532	EA	Low Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM 10).....	261.66	34.65
26 09 23 00-0533	EA	Low Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB 10).....	261.66	34.65
26 09 23 00-0534	EA	Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10).....	277.69	34.65
26 09 23 00-0535	EA	Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	277.69 20.79	34.65
26 09 23 00-0536	EA	Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	226.39 20.79	34.65
26 09 23 00-0537	EA	2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR 10 2P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	341.80 20.79	34.65
26 09 23 00-0538	EA	2-Pole, Line Voltage, Passive Infrared, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR 10 2P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	341.80 20.79	34.65
26 09 23 00-0539	EA	2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB 10 2P)..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	290.51 20.79	34.65
<b>26 09 23 00-0540</b>		<b>Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch)</b> <sup>(26 09 23 00-0520)</sup>		
		Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0541	EA	Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 9).....	325.77	34.65
26 09 23 00-0542	EA	Low Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 9).....	325.77	34.65
26 09 23 00-0543	EA	Low Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 9).....	325.77	34.65





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0544 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9).....	309.75	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0545 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9).....	309.75	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0546 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9).....	258.45	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0547 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 9 2P).....	373.86	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0548 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 9 2P).....	373.86	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0549 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 9 2P).....	322.57	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0550 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CM PDT 10).....	325.77	34.65
26 09 23 00-0551 EA Low Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RM PDT 10).....	325.77	34.65
26 09 23 00-0552 EA Low Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMB PDT 10).....	325.77	34.65
26 09 23 00-0553 EA Single Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10).....	309.75	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0554 EA Single Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10).....	309.75	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0555 EA Single Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10).....	258.45	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0556 EA 2-Pole, Line Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMR PDT 10 2P).....	373.86	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0557 EA 2-Pole, Line Voltage, Dual Technology, Recessed Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch RMR PDT 10 2P).....	373.86	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0558 EA 2-Pole, Line Voltage, Dual Technology, Fixture (Box) Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch CMRB PDT 10 2P).....	322.57	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
<b>26 09 23 00-0559 Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)</b>		
<b>26 09 23 00-0560 Passive Infrared, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0559)</b>		
26 09 23 00-0561 EA Low Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV 16).....	261.66	34.65
26 09 23 00-0562 EA Low Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HW 13).....	293.72	34.65
26 09 23 00-0563 EA Line Voltage, Passive Infrared, Wall Mount, Hallway Occupancy Sensor (Sensor Switch HWR 13).....	357.83	34.65
26 09 23 00-0564 EA Single Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16).....	341.80	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0565 EA 2-Pole, Line Voltage, Passive Infrared, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR 16 2P).....	405.92	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
<b>26 09 23 00-0566 Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch) (26 09 23 00-0559)</b>		
Note: Includes passive infrared and microphonics detection		
26 09 23 00-0567 EA Low Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WV PDT 16).....	325.77	34.65
26 09 23 00-0568 EA Single Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16).....	373.86	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0569 EA 2-Pole, Line Voltage, Dual Technology, Wall Mount, Wide View Occupancy Sensor (Sensor Switch WVR PDT 16 2P).....	437.98	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
<b>26 09 23 00-0570 High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0496)</b>		
<b>26 09 23 00-0571 Passive Infrared, High Bay Occupancy Sensors (Sensor Switch) (26 09 23 00-0570)</b>		
26 09 23 00-0572 EA Low Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CM 6).....	261.66	34.65
26 09 23 00-0573 EA Low Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RM 6).....	261.66	34.65
26 09 23 00-0574 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMB 6).....	261.66	34.65
26 09 23 00-0575 EA Single Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6).....	226.39	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0576 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6).....	226.39	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0577 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6).....	226.39	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0578 EA 2-Pole, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 2P).....	290.51	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0579 EA 2-Pole, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 2P).....	290.51	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0580 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 2P).....	290.51	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0581 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 208).....	248.84	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0582 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 208).....	248.84	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0583 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 208).....	248.84	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0584 EA 480 Volt AC, Line Voltage, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMR 6 480).....	248.84	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0585 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch RMR 6 480).....	248.84	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0586 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch CMRB 6 480).....	248.84	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0587 EA Low Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 50).....	293.72	34.65
26 09 23 00-0588 EA Low Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RM 50).....	293.72	34.65
26 09 23 00-0589 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMB 50).....	293.72	34.65
26 09 23 00-0590 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 50).....	354.63	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0591 EA Single Pole, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50).....	354.63	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0592 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50).....	354.63	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0593 EA 2-Pole, Line Voltage, Recessed Mount, Passive Infrared, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 2P).....	312.95	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0594 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 2P).....	312.95	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0595 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 208).....	264.86	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0596 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 208).....	264.86	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0597 EA 480 Volt AC, Line Voltage, Passive Infrared, Recessed Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch RMR 50 480).....	264.86	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0598 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, Bi-Directional Aisle Way View, High Bay Occupancy Sensor (Sensor Switch CMRB 50 480).....	264.86	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0599 EA Low Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HM 10).....	293.72	34.65
26 09 23 00-0600 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMB 10).....	293.72	34.65
26 09 23 00-0601 EA Single Pole, Line Voltage, Passive Infrared, Surface Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMR 10).....	354.63	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0602 EA Single Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10).....	354.63	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0603 EA 2-Pole, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 2P).....	341.80	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0604 EA 480 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 480).....	309.75	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	
26 09 23 00-0605 EA 208/240 Volt AC, Line Voltage, Passive Infrared, Fixture (Box) Mount, End Of Aisle Way View, High Bay Occupancy Sensor (Sensor Switch HMRB 10 208).....	309.75	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.79	

26 09 23 00-0606 Occupancy Sensor Power Packs (Sensor Switch) (26 09 23 00-0495)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0607 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20).....	151.37	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.48</i>	
26 09 23 00-0608 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack With Relay Circuit Protection (Sensor Switch PP20 2P).....	215.49	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.48</i>	
26 09 23 00-0609 EA Single Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Power Pack Without Relay Circuit Protection (Sensor Switch MP20).....	119.31	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.48</i>	
26 09 23 00-0610 EA 2-Pole, 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack Without Relay Circuit Protection (Sensor Switch MSP20).....	109.70	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.48</i>	
26 09 23 00-0611 EA 20 Amperes, 120/277 Volt AC, Occupancy Sensor Slave Pack (Sensor Switch SP20).....	141.76	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.48</i>	
26 09 23 00-0612 EA 120/277 Volt AC, High Intensity Discharge (HID) Power Pack With 20 Minute Start To High Override (Sensor Switch PP20 SH).....	221.90	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.48</i>	
26 09 23 00-0613 EA 120/277 Volt AC, 2-Pole, Power Pack With Alternating Relays (Sensor Switch PP 2PAR).....	221.90	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.48</i>	
26 09 23 00-0614 EA 120/277 Volt AC, Power Pack With Momentary Contacts For Latching Contactors Or Relays (Sensor Switch PP 2PM).....	221.90	30.80
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>18.48</i>	
<b>26 09 23 00-0615 Daylighting Control (Sensor Switch) <small>(26 09 23 00-0495)</small></b>		
26 09 23 00-0616 EA Low Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CM PC).....	229.60	34.65
26 09 23 00-0617 EA Low Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RM PC).....	229.60	34.65
26 09 23 00-0618 EA Low Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMB PC).....	229.60	34.65
26 09 23 00-0619 EA Line Voltage, Ceiling Mount, On-Off Switching Photocell (Sensor Switch CMR PC).....	229.60	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
26 09 23 00-0620 EA Line Voltage, Recessed Mount, On-Off Switching Photocell (Sensor Switch RMR PC).....	229.60	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
26 09 23 00-0621 EA Line Voltage, Fixture (Box) Mount, On-Off Switching Photocell (Sensor Switch CMRB PC).....	229.60	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
26 09 23 00-0622 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CM ADC).....	229.60	34.65
26 09 23 00-0623 EA Low Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RM ADC).....	229.60	34.65
26 09 23 00-0624 EA Low Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMB ADC).....	229.60	34.65
26 09 23 00-0625 EA Line Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch CMR ADC).....	229.60	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
26 09 23 00-0626 EA Line Voltage, Recessed Mount, Automatic Dimming Control Photocell (Sensor Switch RMR ADC).....	229.60	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
26 09 23 00-0627 EA Line Voltage, Fixture (Box) Mount, Automatic Dimming Control Photocell (Sensor Switch CMRB ADC).....	229.60	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
26 09 23 00-0628 EA Low Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CM PC ADC).....	325.77	34.65
26 09 23 00-0629 EA Low Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RM PC ADC).....	325.77	34.65
26 09 23 00-0630 EA Low Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMB PC ADC).....	325.77	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
26 09 23 00-0631 EA Line Voltage, Ceiling Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMR PC ADC).....	325.77	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
26 09 23 00-0632 EA Line Voltage, Recessed Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch RMR PC ADC).....	325.77	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
26 09 23 00-0633 EA Line Voltage, Fixture (Box) Mount, Combination On/Off And Dimming Control Photocell (Sensor Switch CMRB PC ADC).....	325.77	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>20.79</i>	
<b>26 09 23 00-0634 Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23)</small></b>		
<i>Note: Includes testing of new devices and certification.</i>		
<b>26 09 23 00-0635 Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small></b>		
<i>Note: Excludes boxes.</i>		
<b>26 09 23 00-0636 Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small></b>		
<b>26 09 23 00-0637 Dual Technology, Wall Switch Mount Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0636)</small></b>		
<i>Note: Includes passive infrared and microphonics detection</i>		
26 09 23 00-0638 EA Low Voltage, Dual Technology, Wall Switch Mount Occupancy Sensor With Raise/Lower Dim Control (Sensor Switch nLight® nWSX PDT LV DX).....	343.78	15.41
<b>26 09 23 00-0639 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small></b>		
<b>26 09 23 00-0640 Passive Infrared, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0639)</small></b>		
<i>Note: One photocell or dimming option per occupancy sensor</i>		
26 09 23 00-0641 EA Low Voltage, Passive Infrared, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 9).....	413.23	34.65
26 09 23 00-0642 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM 10).....	413.23	34.65
26 09 23 00-0643 EA Low Voltage, Passive Infrared, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor With Auto Dimming Control Photocell (Sensor Switch nLight® nCM 10 ADC).....	413.23	34.65

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 09 23 00-0644</b> Dual Technology, 360 Degree View Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0639)</small> Note: One photocell or dimming option per occupancy sensor. Includes passive infrared and microphonics detection		
26 09 23 00-0645 EA Low Voltage, Dual Technology, Ceiling Mount, Standard Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 9).....	482.02	34.65
26 09 23 00-0646 EA Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10).....	482.02	34.65
26 09 23 00-0647 EA 2-Channel, Low Voltage, Dual Technology, Ceiling Mount, Extended Range, 360 Degree View Occupancy Sensor (Sensor Switch nLight® nCM PDT 10 2P).....	499.19	34.65
<b>26 09 23 00-0648</b> Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small>		
<b>26 09 23 00-0649</b> Dual Technology, Wide View And Hallway Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0648)</small> Note: Includes passive infrared and microphonics detection		
26 09 23 00-0650 EA Low Voltage, Dual Technology, Corner/Ceiling Mount, Wide View Occupancy Sensor (Sensor Switch nLight® nWV PDT 16).....	482.02	34.65
<b>26 09 23 00-0651</b> High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0635)</small>		
<b>26 09 23 00-0652</b> Passive Infrared, High Bay Occupancy Sensors (Sensor Switch nLight®) <small>(26 09 23 00-0651)</small>		
26 09 23 00-0653 EA Low Voltage, Passive Infrared, Fixture (Box) Mount, 360 Degree View, High Bay Occupancy Sensor (Sensor Switch nLight® nCMB 6).....	413.23	34.65
<b>26 09 23 00-0654</b> Occupancy Sensor Power Packs (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small>		
26 09 23 00-0655 EA 150mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-150).....	147.59	30.80
26 09 23 00-0656 EA 250mA At 15 Volt DC Output, 120-277 Volt AC Input, Standard Power Supply (Sensor Switch nLight® PS-250).....	182.01	30.80
26 09 23 00-0657 EA 30mA/Port At 15 Volt DC Output, 120-277 Volt AC Input, Dimming Power Pack (Sensor Switch nLight® nEPP5 D KO).....	240.45	30.80
26 09 23 00-0658 EA System Power Pack and Relay, Switching Module (Sensor Switch nLight® nPP 16).....	240.45	30.80
<b>26 09 23 00-0659</b> Occupancy Sensor Accessories (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small>		
26 09 23 00-0660 EA RS232 AV Integrator (Sensor Switch nLight® nIO X).....	499.19	34.65
26 09 23 00-0661 EA 8 Port, Aggregation Bridge With Power Supply (Sensor Switch nLight® nBRG 8 KIT).....	404.44	34.65
<b>26 09 23 00-0662</b> Daylighting Controls (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small>		
26 09 23 00-0663 EA Low Voltage, Ceiling Mount, Automatic Dimming Control Photocell (Sensor Switch nLight® nCM ADC).....	344.45	34.65
<b>26 09 23 00-0664</b> Controls (Sensor Switch nLight®) <small>(26 09 23 00-0634)</small>		
26 09 23 00-0665 EA On/Off And Raise/Lower Control, Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM DX).....	230.96	34.65
26 09 23 00-0666 EA 1 Scene Controller (2 Buttons), Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM 1SB).....	327.28	34.65
26 09 23 00-0667 EA On/Off Push Button Digital Wall Switch, WallPod® Station (Sensor Switch nLight® nPODM).....	739.97	34.65
26 09 23 00-0668 EA 3-1/2" Screen, High Resolution Touch Screen Controller, WallPod® Station (Sensor Switch nLight® nPOD GFX).....	739.97	34.65
26 09 23 00-0669 EA 3-1/2" Screen, Touch Screen Clock And Network Interface Controller, Gateway (Sensor Switch nLight® nGWY2).....	2,734.73	34.65
<b>26 09 23 00-0670</b> Occupancy Sensors (Lutron) <small>(26 09 23)</small> Note: Includes testing of new devices and certification.		
<b>26 09 23 00-0671</b> Wireless Occupancy Sensors <small>(26 09 23 00-0670)</small>		
26 09 23 00-0672 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Occupancy/Vacancy Sensor (Lutron® LRF2-OCR2B-P-WH).....	175.14	34.65
26 09 23 00-0673 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View Vacancy Sensor (Lutron® LRF2-VCR2B-P-WH).....	182.24	34.65
26 09 23 00-0674 EA Wireless, Passive Infrared, Hallway Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OHLB-P-WH).....	176.82	34.65
26 09 23 00-0675 EA Wireless, Passive Infrared, Hallway Wall Mount, Vacancy Sensor (Lutron® LRF2-VHLB-P-WH).....	186.23	34.65
26 09 23 00-0676 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OKLB-P-WH).....	178.93	34.65
26 09 23 00-0677 EA Wireless, Passive Infrared, 90 Degree Corner Mount, Vacancy Sensor (Lutron® LRF2-VKLB-P-WH).....	186.23	34.65
26 09 23 00-0678 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Occupancy/Vacancy Sensor (Lutron® LRF2-OWLB-P-WH).....	175.14	34.65
26 09 23 00-0679 EA Wireless, Passive Infrared, 180 Degree Wall Mount, Vacancy Sensor (Lutron® LRF2-VWLB-P-WH).....	178.93	34.65
26 09 23 00-0680 EA Wireless, Passive Infrared, Ceiling Mount, 360 Degree View, High Bay Occupancy Sensor (Lutron® FHB140NP24V).....	176.82	34.65
26 09 23 00-0681 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-500-WH).....	265.38	34.65
26 09 23 00-0682 EA Wireless, Dual Technology, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-500R-WH).....	282.25	34.65
26 09 23 00-0683 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CDT-1000-WH).....	320.20	34.65
26 09 23 00-0684 EA Wireless, Dual Technology, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-1000R-WH).....	337.07	34.65
26 09 23 00-0685 EA Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CDT-2000-WH).....	345.50	34.65



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 09 23 00-0686	EA		Wireless, Dual Technology, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor With Relay (Lutron® LOS-CDT-2000R-WH).....	362.37	34.65
26 09 23 00-0687	EA		Wireless, Passive Infrared, Ceiling Mount, 450 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-450-WH) .....	212.25	34.65
26 09 23 00-0688	EA		Wireless, Passive Infrared, Ceiling Mount, 1,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CIR-1500-WH) .....	223.21	34.65
26 09 23 00-0689	EA		Wireless, Ultrasonic, Ceiling Mount, 500 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-500-WH) .....	259.05	34.65
26 09 23 00-0690	EA		Wireless, Ultrasonic, Ceiling Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-CUS-1000-WH) .....	286.46	34.65
26 09 23 00-0691	EA		Wireless, Ultrasonic, Ceiling Mount, 2,000 SF Coverage, 360 Degree View Occupancy Sensor (Lutron® LOS-CUS-2000-WH) .....	307.55	34.65
26 09 23 00-0692	EA		Wireless, Passive Infrared, 1,600 SF Coverage, 110 Degree Wall Mount, Occupancy Sensor (Lutron® LOS-WIR-WH) .....	267.49	34.65
26 09 23 00-0693	EA		Wireless, Passive Infrared, RF Daylight Sensor (Lutron® LRF2-DCRB-WH).....	247.01	34.65
26 09 23 00-0694	EA		Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor (Lutron® LOS-SIR-HD-WH) .....	208.90	34.65
26 09 23 00-0695	EA		Wireless, Dual Technology, Wall Mount, 1,000 SF Coverage, 180 Degree View Occupancy Sensor, Dual Circuit (Lutron® LOS-S2IR-HD-WH) .....	253.83	34.65
26 09 23 00-0696	EA		Wireless, Switch and Ceiling Retrofit Sensor (Lutron® MRF2-1S8A-10C).....	305.15	34.65
26 09 23 00-0697	EA		Wireless, Switch and Hallway Retrofit Sensor (Lutron® MRF2-1S8A-10H).....	323.01	34.65
26 09 23 00-0698	EA		Wireless, Switch and Corner Retrofit Sensor (Lutron® MRF2-1S8A-10K).....	323.01	34.65
26 09 23 00-0699	EA		Wireless, Switch and Wall Retrofit Sensor (Lutron® MRF2-1S8A-10W).....	323.01	34.65
26 09 23 00-0700	EA		Wireless, Switch and Vacancy Retrofit Sensor (Lutron® MRF2-1S8A-10V).....	339.38	34.65
26 09 23 00-0701	EA		Wireless, Two Switchs and Wall Retrofit Sensor (Lutron® MRF2-2S8A-10W).....	547.99	50.05
<b>26 09 23 00-0702 Nodes And Modules</b> <small>(26 09 23 00-0670)</small>					
26 09 23 00-0703	EA		0 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-C).....	275.92	34.65
26 09 23 00-0704	EA		0 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-XW-J).....	275.92	34.65
26 09 23 00-0705	EA		4 Wired Inputs, Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-C).....	345.50	34.65
26 09 23 00-0706	EA		4 Wired Inputs, Junction Box Ceiling Mount, QS Sensor Module (Lutron® QSM2-4W-J).....	345.50	34.65
26 09 23 00-0707	EA		120 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-120-WH).....	439.65	38.51
26 09 23 00-0708	EA		120 Volt, Gang Box Mount, Switching Power Module (Lutron® PHPM-SW-DV-WH).....	439.65	38.51
26 09 23 00-0709	EA		120 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-120-WH).....	530.32	38.51
26 09 23 00-0710	EA		120 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-120-WH).....	542.97	38.51
26 09 23 00-0711	EA		120/277 Volt, Gang Box Mount, 3-Wire Fluorescent Power Module (Lutron® PHPM-3F-DV-WH).....	667.37	38.51
26 09 23 00-0712	EA		120/277 Volt, Gang Box Mount, Phase Adaptive Power Module (Lutron® PHPM-PA-DV-WH).....	707.43	38.51
26 09 23 00-0713	EA		120/277 Volt, Gang Box Mount, Phase Adaptive Power Module With 3-Wire Fluorescent Input (Lutron® PHPM-WBX-DV-WH).....	747.49	38.51
26 09 23 00-0714	EA		1 Circuit, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-2).....	2,005.05	61.61
26 09 23 00-0715	EA		2 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-4).....	1,973.02	69.31
26 09 23 00-0716	EA		3 Circuits, Surface Mount, HP Hi-Power Dimming Module System (Lutron® HP-6).....	2,884.53	77.01
<b>26 09 23 00-0717 Other Accessories</b> <small>(26 09 23 00-0670)</small>					
26 09 23 00-0718	EA		Pico® Wireless Control Wallplate Adapter (Lutron® PJ).....	49.22	
26 09 23 00-0719	EA		Pico® Wireless Control (Lutron® PJ) .....	55.14	
26 09 23 00-0720	EA		4-Scene Wireless Remote Control (Lutron® GRX-IT-WH).....	162.98	
26 09 23 00-0721	EA		8-Scene Wireless Remote Control (Lutron® GRX-8IT-WH).....	308.47	
26 09 23 00-0722	EA		4 Button, EcoSystem® Wall Control With Raise/Lower (Lutron® CC-4BRL).....	333.34	34.65
26 09 23 00-0723	EA		seeTouch® QS Wallstation (Lutron® QSWS2) .....	418.79	34.65
26 09 23 00-0724	EA		seeTouch® QS Wallstation With Infrared Receiver (Lutron® QSWS2).....	418.79	34.65
26 09 23 00-0725	EA		120/277 Volt, Energi Savr Node™ With Softswitch®, Fixture Controller (Lutron® QSN-4S16-S).....	680.02	38.51
26 09 23 00-0726	EA		120/277 Volt, Energi Savr Node™ For 0-10 V Models, Fixture Controller (Lutron® QSN-4T16-S).....	926.72	38.51
26 09 23 00-0727	EA		Control Interface (Lutron® QSE-CI-NWK-E).....	1,110.89	34.65
26 09 23 00-0728	EA		1 EcoSystem® Digital Link, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-1ECO-S).....	1,102.48	34.65
26 09 23 00-0729	EA		2 EcoSystem® Digital Links, Energi Savr Node™, Digital Fixture Controller (Lutron® QSN-2ECO-S).....	1,471.47	34.65
26 09 23 00-0730	MLF		5 Conductor, Non-Plenum, Low Voltage Grafik Eye Cable (Lutron® GRX-CBL-346S).....	2,786.03	1,076.75
26 09 23 00-0731	MLF		5 Conductor, Plenum Rated, Low Voltage Grafik Eye Cable (Lutron® GRX-PCBL-346S).....	3,629.43	1,076.75
<b>26 09 23 00-0732 Fixture Mounted Occupancy Sensors (Leviton)</b> <small>(26 09 23)</small>					
Note: Includes testing of new devices and certification.					
26 09 23 00-0733	EA		120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-ITW).....	168.39	34.65
26 09 23 00-0734	EA		480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, High Bay Occupancy Sensor (Leviton® OSFHU-14W).....	148.99	34.65
26 09 23 00-0735	EA		120-347 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-CTW).....	184.41	34.65
26 09 23 00-0736	EA		480 Volt, Passive Infrared, Fixture Mount, 360 Degree View, Cold Storage Occupancy Sensor (Leviton® OSFHU-C4W).....	148.99	34.65
26 09 23 00-0737	EA		120-347 Volt, Dual Detection Occupancy Wall Sensor Switch (Lithonia WSX-PDT).....	231.78	15.39
<b>26 09 23 00-0738 Wireless Enabled Communication Devices For Streetlights</b> <small>(26 09 23)</small>					
Note: Includes testing of new devices and certification.					
<b>26 09 23 00-0739 Wireless Enabled Communication Nodes For Streetlights (Roam®)</b> <small>(26 09 23 00-0738)</small>					
26 09 23 00-0740	EA		120/244/277 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN127 NM1).....	351.71	
26 09 23 00-0741	EA		480 Voltage, Wireless Enabled Communication Node For Streetlights (Roam® REN480 NM1).....	489.28	

**26 Electrical****26 09 Instrumentation and Control for Electrical Systems****26 09 23 Lighting Control Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 09 23 00-0742</b> <b>Wireless Enabled Communication Devices For Streetlights (Roam®)</b> <sup>(26 09 23 00-0738)</sup>		
26 09 23 00-0743    EA    Retrofit Receptacle Kit (Roam® DUR103).....	66.27	
	Note: For adapting light fixtures for use with a NEMA locking type photocontrol.	
26 09 23 00-0744    EA    Wireless Enabled Backbone And Data Backhaul Device, Gateway (Roam® REG127).....	13,925.65	84.34
<b>26 09 23 00-0745</b> <b>Counter Mounted Consolets</b> <sup>(26 09 23)</sup>		
26 09 23 00-0746    EA    20" x 24" Type 12, Oil Tight Consolets, Counter Mounted (Schaefer's SPCL-20C24).....	752.11	192.28
<b>26 09 23 00-0747</b> <b>Lighting Console And Stations</b> <sup>(26 09 23)</sup>		
26 09 23 00-0748    EA    80 Channel, 40 Faders, Lighting Console (ETC ColorSource CS 40) .....	4,978.78	192.28
	For Lighting Console Dust Cover (ETC ColorSource CS40DC), Add	
	106.24	
	For Lighting Console Case (ETC ColorSourcePart 11866), Add	
	1,132.76	
26 09 23 00-0749    EA    10 Preset, Lighting Control Station (Doug Fleenor PRE10-A2) .....	3,432.20	115.36
<b>26 09 23 00-0750</b> <b>Theatre Lighting Console</b> <sup>(26 09 23)</sup>		
26 09 23 00-0751    EA    Theatre Lighting Console (ETC Colorsources 20).....	3,610.71	230.73
<b>26 09 23 00-0752</b> <b>Emergency Lighting Controls</b> <sup>(26 09 23)</sup>		
<b>26 09 23 00-0753</b> <b>Emergency Lighting Control Units (Watt Stopper ELCU)</b> <sup>(26 09 23 00-0752)</sup>		
	Note: The ELCU monitors a single circuit and can be wired either as a control device, so that emergency lighting follows the control of normal lighting, or as a bypass device to shunt emergency power around a control device when normal power fails. Includes integral push-to-test button and LED indicator for emergency and normal power.	
26 09 23 00-0754    EA    DIN Rail Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-100).....	236.96	38.51
26 09 23 00-0755    EA    1/2" Knockout Mount, Emergency Lighting Control/Bypass Shunt Unit (Watt Stopper ELCU-200) .....	236.96	38.51
<b>26 09 23 00-0756</b> <b>Emergency Shunt Relays (Lighting Control &amp; Design GR 2001™)</b> <sup>(26 09 23 00-0752)</sup>		
	Note: Normally-closed, electrically-held relay to be wired in parallel with a wall switch. Manually controlled emergency lighting will be automatically shunted on during a power outage. Includes two-gang NEMA 1 junction box, voltage-separating barrier and plaster ring separating normal and emergency power. Excludes wall plate and switch.	
26 09 23 00-0757    EA    1 Emergency Shunt Relay And NEMA 1 Enclosure (Lighting Control & Design GR 2001™).....	418.52	53.90
26 09 23 00-0758    EA    2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™) .....	566.92	61.61
26 09 23 00-0759    EA    2 Emergency Shunt Relays And NEMA 1 Enclosure (Lighting Control & Design GR 2001™ Dual).....	760.00	69.31
	Note: Controls normal and emergency lighting from single-pole wall switch.	
<b>26 09 23 00-0760</b> <b>Photocells</b> <sup>(26 09 23)</sup>		
26 09 23 00-0761    EA    Plug-In Photocell For Lighting Fixtures (Intermac® LC2000).....	111.78	
26 09 23 00-0762    EA    Wired Photocell For Lighting Fixtures (Intermac® K4021C) .....	268.18	
<b>26 09 23 00-0763</b> <b>Outdoor Lighting Motion Sensors</b> <sup>(26 09 23)</sup>		
26 09 23 00-0764    EA    70' Range, 180 Degree Detection Zone, 8 Amperes, Switching Capacity, Polycarbonate Housing, Outdoor Motion Sensor (Lithonia OMS 1000) .....	143.76	38.51
26 09 23 00-0765    EA    70' Range, 200 Degree Detection Zone, 10 Amperes, Switching Capacity, Cast Aluminum Housing, Outdoor Motion Sensor (Lithonia OMS 2000).....	155.86	38.51
26 09 23 00-0766    EA    30' Range, 360 Degree Detection Zone, Line Voltage, Plastic Housing, IP66 Rated, Outdoor Motion Sensor With Photocell (SensorSwitch SBOR) .....	605.17	38.51
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	
	23.10	
<b>26 09 23 00-0767</b> <b>Street Light Controls</b> <sup>(26 09 23)</sup>		
<b>26 09 23 00-0768</b> <b>Photo Controls</b> <sup>(26 09 23 00-0767)</sup>		
26 09 23 00-0769    EA    Photo Control, 120 Volt As Manufactured By Cooper Lighting #RA1014 .....	117.11	
26 09 23 00-0770    EA    Photo Control, Multi-Tap As Manufactured By Cooper Lighting #RA1016.....	131.96	
<b>26 09 23 00-0771</b> <b>Connector Node</b> <sup>(26 09 23 00-0767)</sup>		
26 09 23 00-0772    EA    Outdoor Lighting Connector Node (Philips City Touch LLC7260).....	544.87	3.13

**26 10 Medium-Voltage Electrical Distribution** <sup>(26)</sup>**26 11 Substations** <sup>(26 10)</sup>**26 11 13 Primary Unit Substations** <sup>(26 11)</sup>26 11 13 00-0001 "Switchyard" Substation Primary Incoming Section <sup>(26 11 13)</sup>26 11 13 00-0002 Outdoor Oil Circuit Breakers "Switchyard" <sup>(26 11 13 00-0001)</sup>

Note: Type SP 14.4 thru 69 KV 1200 amp. Frame mounted. Standard equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0003 EA 14.4 KV, 500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	59,087.60	2,639.89
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,611.11	
26 11 13 00-0004 EA 23.0 KV, 750 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	72,516.58	3,338.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,013.88	
26 11 13 00-0005 EA 34.5 KV, 1,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	81,917.09	3,338.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,013.88	
26 11 13 00-0006 EA 46 KV, 2,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	94,048.74	3,338.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,148.14	
26 11 13 00-0007 EA 69 KV, 3,500 MVA, Outdoor Oil Circuit Breaker Type SP, 1,200 Amperes, "Switchyard" Substation.....	106,735.45	4,115.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2,478.62	
<b>26 11 13 00-0008 Accessories For Outdoor Oil Circuit Breakers (26 11 13 00-0001)</b>		
26 11 13 00-0009 EA Reclosure Relay, Adjustable, 3 Shot, #179 .....	1,730.93	281.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	166.45	
26 11 13 00-0010 EA Overcurrent Relay, 1 Phase, #51/51N .....	600.74	203.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.01	
26 11 13 00-0011 EA Directional Overcurrent Relay, Three-Phase, Device No. 67 .....	874.98	203.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.32	
26 11 13 00-0012 EA Voltage Relay, Under Or Over- Voltage, Device No. 27 Or 59, Three-Phase .....	693.47	203.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	111.01	
26 11 13 00-0013 EA Differential Relay Package, Complete, Device No. 87 .....	2,594.71	688.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	415.85	
<b>26 11 13 00-0014 "Switchyard", Substation Transformer Section (26 11 13)</b>		
Note: Standard NEMA design two winding three phase, 60 Hz. oil filled load tap changer 10% Range		
<b>26 11 13 00-0015 14.4 KV Nominal Primary (26 11 13 00-0014)</b>		
26 11 13 00-0016 EA 1,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	34,630.64	2,639.89
For 50 Hz Operation, Add	3,511.23	
For Forced Air Cooling, Add	3,511.23	
For External Control Panel, Add	877.81	
For Internally Mounted Current Transformers And Linear Couplers, Add	292.60	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,463.01	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	3,657.54	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,389.04	
26 11 13 00-0017 EA 2,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	39,746.58	3,307.62
For 50 Hz Operation, Add	3,964.04	
For Forced Air Cooling, Add	3,964.04	
For External Control Panel, Add	991.01	
For Internally Mounted Current Transformers And Linear Couplers, Add	330.34	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,651.68	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,129.21	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,955.05	
26 11 13 00-0018 EA 5,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	60,949.25	4,658.62
For 50 Hz Operation, Add	6,168.23	
For Forced Air Cooling, Add	6,168.23	
For External Control Panel, Add	1,542.06	
For Internally Mounted Current Transformers And Linear Couplers, Add	514.02	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,570.10	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,425.24	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,710.29	
26 11 13 00-0019 EA 7,500 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	87,626.33	5,484.81
For 50 Hz Operation, Add	9,095.56	
For Forced Air Cooling, Add	9,095.56	
For External Control Panel, Add	2,273.89	
For Internally Mounted Current Transformers And Linear Couplers, Add	757.96	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,789.82	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,474.54	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	11,369.45	
26 11 13 00-0020 EA 10,000 KVA, 14.4 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	108,008.34	7,097.98
For 50 Hz Operation, Add	11,186.50	
For Forced Air Cooling, Add	11,186.50	
For External Control Panel, Add	2,796.63	
For Internally Mounted Current Transformers And Linear Couplers, Add	932.21	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,661.04	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,652.61	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	13,983.13	
<b>26 11 13 00-0021 23 KV Nominal Primary (26 11 13 00-0014)</b>		
26 11 13 00-0022 EA 1,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	38,900.00	3,571.61
For 50 Hz Operation, Add	3,862.45	
For External Control Panel, Add	965.61	
For Internally Mounted Current Transformers And Linear Couplers, Add	321.87	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,609.35	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,023.38	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	4,828.06	
For Forced Air Cooling, Add	2,574.96	

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 11 Substations**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0023 EA 2,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	44,528.38	3,571.61
For 50 Hz Operation, Add	4,370.66	
For External Control Panel, Add	1,092.67	
For Internally Mounted Current Transformers And Linear Couplers, Add	364.22	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	1,821.11	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	4,552.77	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	5,463.33	
For Forced Air Cooling, Add	2,913.77	
26 11 13 00-0024 EA 5,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	70,854.91	5,279.77
For 50 Hz Operation, Add	7,213.70	
For External Control Panel, Add	1,803.43	
For Internally Mounted Current Transformers And Linear Couplers, Add	601.14	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,005.71	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	7,514.28	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,017.13	
For Forced Air Cooling, Add	4,809.14	
26 11 13 00-0025 EA 7,500 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	94,939.98	7,097.98
For 50 Hz Operation, Add	9,618.30	
For External Control Panel, Add	2,404.58	
For Internally Mounted Current Transformers And Linear Couplers, Add	801.53	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,007.63	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	10,019.06	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	12,022.88	
For Forced Air Cooling, Add	6,412.20	
26 11 13 00-0026 EA 10,000 KVA, 23 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	116,720.60	7,097.98
For 50 Hz Operation, Add	12,231.98	
For External Control Panel, Add	3,057.99	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,019.33	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,096.66	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,741.64	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	15,289.97	
For Forced Air Cooling, Add	8,154.65	
<b>26 11 13 00-0027 34.5 KV Nominal Primary (26 11 13 00-0014)</b>		
26 11 13 00-0028 EA 1,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	48,763.50	4,270.41
For 50 Hz Operation, Add	4,878.88	
For External Control Panel, Add	1,219.72	
For Internally Mounted Current Transformers And Linear Couplers, Add	406.57	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,032.87	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	5,082.16	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	6,098.60	
For Forced Air Cooling, Add	3,252.58	
26 11 13 00-0029 EA 2,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	58,891.81	6,677.36
For 50 Hz Operation, Add	5,895.30	
For External Control Panel, Add	1,473.83	
For Internally Mounted Current Transformers And Linear Couplers, Add	491.28	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	2,456.38	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	6,140.94	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	7,369.13	
For Forced Air Cooling, Add	3,930.20	
26 11 13 00-0030 EA 5,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	81,381.56	6,677.36
For 50 Hz Operation, Add	8,154.68	
For External Control Panel, Add	2,038.67	
For Internally Mounted Current Transformers And Linear Couplers, Add	679.56	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,397.78	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,494.46	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,193.35	
For Forced Air Cooling, Add	5,436.45	
26 11 13 00-0031 EA 7,500 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	103,652.17	6,936.66
For 50 Hz Operation, Add	10,663.76	
For External Control Panel, Add	2,665.94	
For Internally Mounted Current Transformers And Linear Couplers, Add	888.65	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,443.24	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,108.09	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	13,329.71	
For Forced Air Cooling, Add	7,109.18	
26 11 13 00-0032 EA 10,000 KVA, 34.5 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	177,490.68	8,872.48
For 50 Hz Operation, Add	19,027.53	
For External Control Panel, Add	4,756.88	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,585.63	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,928.14	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	19,820.34	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	23,784.41	
For Forced Air Cooling, Add	12,685.02	
<b>26 11 13 00-0033 46 KV Nominal Primary (26 11 13 00-0014)</b>		
26 11 13 00-0034 EA 1,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	74,081.64	4,969.20
For 50 Hz Operation, Add	7,718.08	
For External Control Panel, Add	1,929.52	
For Internally Mounted Current Transformers And Linear Couplers, Add	643.17	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,215.87	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	8,039.67	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	9,647.60	
For Forced Air Cooling, Add	5,145.39	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0035 EA 2,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	83,658.29	4,969.20
For 50 Hz Operation, Add	8,750.11	
For External Control Panel, Add	2,187.53	
For Internally Mounted Current Transformers And Linear Couplers, Add	729.18	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	3,645.88	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	9,114.70	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	10,937.64	
For Forced Air Cooling, Add	5,833.41	
26 11 13 00-0036 EA 5,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	115,507.43	6,677.36
For 50 Hz Operation, Add	12,249.78	
For External Control Panel, Add	3,062.45	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,020.82	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,104.08	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	12,760.19	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	15,312.23	
For Forced Air Cooling, Add	8,166.52	
26 11 13 00-0037 EA 7,500 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	141,590.90	8,872.48
For 50 Hz Operation, Add	14,719.55	
For External Control Panel, Add	3,679.89	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,226.63	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	6,133.15	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	15,332.87	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	18,399.44	
For Forced Air Cooling, Add	9,813.04	
26 11 13 00-0038 EA 10,000 KVA, 46 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	199,325.25	8,872.48
For 50 Hz Operation, Add	21,647.67	
For External Control Panel, Add	5,411.92	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,803.97	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	9,019.86	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	22,549.66	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	27,059.59	
For Forced Air Cooling, Add	14,431.78	
<b>26 11 13 00-0039 69 KV Nominal Primary</b> <small>(26 11 13 00-0014)</small>		
26 11 13 00-0040 EA 1,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	105,773.14	5,279.77
For 50 Hz Operation, Add	11,403.89	
For External Control Panel, Add	2,850.97	
For Internally Mounted Current Transformers And Linear Couplers, Add	950.32	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	4,751.62	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	11,879.05	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	14,254.86	
For Forced Air Cooling, Add	7,602.59	
26 11 13 00-0041 EA 2,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	121,769.12	6,677.36
For 50 Hz Operation, Add	13,001.19	
For External Control Panel, Add	3,250.30	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,083.43	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	5,417.16	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	13,542.90	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	16,251.48	
For Forced Air Cooling, Add	8,667.46	
26 11 13 00-0042 EA 5,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	166,032.88	6,677.36
For 50 Hz Operation, Add	18,312.84	
For External Control Panel, Add	4,578.21	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,526.07	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,630.35	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	19,075.87	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	22,891.05	
For Forced Air Cooling, Add	12,208.56	
26 11 13 00-0043 EA 7,500 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	176,857.18	8,872.48
For 50 Hz Operation, Add	18,951.51	
For External Control Panel, Add	4,737.88	
For Internally Mounted Current Transformers And Linear Couplers, Add	1,579.29	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	7,896.46	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	19,741.15	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	23,689.38	
For Forced Air Cooling, Add	12,634.34	
26 11 13 00-0044 EA 10,000 KVA, 69 KV Primary, Substation Switchyard, 2 Winding, 3 Phase, Oil Filled .....	230,170.86	8,872.48
For 50 Hz Operation, Add	25,349.15	
For External Control Panel, Add	6,337.29	
For Internally Mounted Current Transformers And Linear Couplers, Add	2,112.43	
For Lightning Arrester On 15 kV Transformer Station Type And Mounting, Add	10,562.15	
For Lightning Arrester On 34.5 kV Transformer Station Type And Mounting, Add	26,405.36	
For Lightning Arrester On 69 kV Transformer Station Type And Mounting, Add	31,686.44	
For Forced Air Cooling, Add	16,899.43	
<b>26 11 13 00-0045 Circuit Breakers Fluarc SF6 13.8 KV</b> <small>(26 11 13)</small>		
26 11 13 00-0046 EA 1,200 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	62,424.78	1,277.01
26 11 13 00-0047 EA 1,200 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	68,469.69	1,277.01
26 11 13 00-0048 EA 1,200 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	78,027.69	1,586.26
26 11 13 00-0049 EA 2,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	73,197.77	1,907.40
26 11 13 00-0050 EA 2,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	82,329.88	1,907.40
26 11 13 00-0051 EA 2,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	93,948.19	2,215.98
26 11 13 00-0052 EA 3,000 Amperes, 500 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	96,987.50	2,531.76
26 11 13 00-0053 EA 3,000 Amperes, 750 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section .....	108,357.50	2,531.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 13 00-0054 EA 3,000 Amperes, 1,000 MVA, Fluarc Breaker, 13.8 KV Substation, Secondary Distribution Section.....	113,678.31	2,843.19
<b>26 11 16 Secondary Unit Substations (26 11)</b>		
<b>26 11 16 11 Secondary Unit Substations with Switchgear Secondary (26 11 16)</b>		
26 11 16 11-0001 Substation Primary Incoming Section (26 11 16 11)		
26 11 16 11-0002 Manual Transferring Fused Load Break Switches (26 11 16 11-0001) Note: 15 KV 600 Amp 3 pole 2 position floor mounted. Type, metal compartment includes weatherproofing, fuses, transformer throat, pothead terminations thru 500 MCM, with surge protection. Manual transferring of one line to an alternate incoming line.		
26 11 16 11-0003 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	39,690.73	1,875.25
26 11 16 11-0004 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position.....	45,700.56	1,875.25
26 11 16 11-0005 Automatic Transferring Fused Load Break Switches (26 11 16 11-0001) Note: Items are equipped with 3 pole - 2 position selector switch for automatic transferring one line to an alternate incoming line.		
26 11 16 11-0006 EA 112.5 Thru 1,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	56,035.82	1,875.25
26 11 16 11-0007 EA 2,000 And 2,500 KVA Transformers Load Switch, 600 Amperes, 3 Pole, 2 Position Selector Switch.....	59,947.05	1,875.25
26 11 16 11-0008 Accessories For Substation Fused Load Break Switches (26 11 16 11-0001)		
26 11 16 11-0009 EA Primary Lightning Arrestors Accessories, Secondary Distribution Section .....	20,509.58	
26 11 16 11-0010 EA Key Interlock Accessories, Secondary Distribution Section.....	1,996.34	
26 11 16 11-0011 Oil Filled Substation Transformers (26 11 16 11) Note: 112-1/2 KVA thru 2500 KVA standard NEMA design 3 phase cover mounted manual tap changer, liquid level gauge with alarm contacts, thermometer with alarm contacts, pressure vacuum gauge, automatic control for auxiliary cooling equipment. Weatherproof.		
26 11 16 11-0012 Substation, Primary 13.8 KV Secondary 480Y/277 Or 480 Volt, 60 HZ (26 11 16 11-0011)		
26 11 16 11-0013 EA 75 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	36,238.35 2,373.63 1,017.27 339.09	1,164.66
26 11 16 11-0014 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	53,442.83 3,545.34 1,519.43 506.48	1,397.58
26 11 16 11-0015 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	60,508.93 4,018.22 1,722.10 574.03	1,552.87
26 11 16 11-0016 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	71,525.39 4,735.02 2,029.30 676.43	1,941.10
26 11 16 11-0017 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	79,570.52 5,232.96 2,242.70 747.57	2,406.95
26 11 16 11-0018 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	84,815.68 5,524.03 2,367.44 789.15	2,950.46
26 11 16 11-0019 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	99,184.20 6,442.87 2,761.23 920.41	3,571.61
26 11 16 11-0020 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	105,625.40 6,850.27 2,935.83 978.61	3,882.18
26 11 16 11-0021 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	118,079.61 7,667.72 3,286.16 1,095.39	4,270.41
26 11 16 11-0022 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	136,710.08 8,906.63 3,817.13 1,272.38	4,736.26
26 11 16 11-0023 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof..... For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add For Control Power Transformer On Fans And Auxiliary, Add For Internal Mounted Current Transformer And Linear Coupler, Add	150,146.02 9,787.36 4,194.58 1,398.19	5,163.31
26 11 16 11-0024 Substation, Primary 13.8 KV Secondary 208Y/120 Volt, 60 HZ (26 11 16 11-0011)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0025 EA 75 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	34,546.68	1,164.66
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	2,255.22	
For Control Power Transformer On Fans And Auxiliary, Add	966.52	
For Internal Mounted Current Transformer And Linear Coupler, Add	322.17	
26 11 16 11-0026 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	52,428.42	1,164.66
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	3,506.94	
For Control Power Transformer On Fans And Auxiliary, Add	1,502.97	
For Internal Mounted Current Transformer And Linear Coupler, Add	500.99	
26 11 16 11-0027 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	60,471.50	1,552.87
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	4,015.60	
For Control Power Transformer On Fans And Auxiliary, Add	1,720.97	
For Internal Mounted Current Transformer And Linear Coupler, Add	573.66	
26 11 16 11-0028 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	71,589.80	1,941.10
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	4,739.53	
For Control Power Transformer On Fans And Auxiliary, Add	2,031.23	
For Internal Mounted Current Transformer And Linear Coupler, Add	677.08	
26 11 16 11-0029 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	86,143.98	2,406.95
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	5,693.10	
For Control Power Transformer On Fans And Auxiliary, Add	2,439.90	
For Internal Mounted Current Transformer And Linear Coupler, Add	813.30	
26 11 16 11-0030 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	93,000.82	2,950.46
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	6,096.99	
For Control Power Transformer On Fans And Auxiliary, Add	2,613.00	
For Internal Mounted Current Transformer And Linear Coupler, Add	871.00	
26 11 16 11-0031 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	102,963.78	3,571.61
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	6,707.44	
For Control Power Transformer On Fans And Auxiliary, Add	2,874.62	
For Internal Mounted Current Transformer And Linear Coupler, Add	958.21	
26 11 16 11-0032 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	112,136.08	3,882.18
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	7,306.02	
For Control Power Transformer On Fans And Auxiliary, Add	3,131.15	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,043.72	
26 11 16 11-0033 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt, Primary 13.8 KV, Oil Transformer, Weatherproof.....	126,498.91	4,270.41
For Forced Air Cooling, 750 KVA And Above Rating 15% Thru 2,499 kV And 25% For 2,500 kV, Add	8,257.07	
For Control Power Transformer On Fans And Auxiliary, Add	3,538.74	
For Internal Mounted Current Transformer And Linear Coupler, Add	1,179.58	
<b>26 11 16 11-0034 Accessories For Oil Filled Substation Transformers (26 11 16 11-0011)</b>		
26 11 16 11-0035 EA Sudden Pressure Relay.....	10,277.70	
26 11 16 11-0036 EA Throats Or Flanges (HV Or LV).....	20,404.72	
26 11 16 11-0037 EA Lightning Arrestors (3 - 1 Pole).....	13,435.72	
26 11 16 11-0038 EA Single Feeder Switch With Fuses 3 Pole, 2 Position, Open-Close Close) Fuse Type - CLE (80E To 125 X).....	74,561.52	
26 11 16 11-0039 EA Oil Fuse Cutout, 15 KV, 200 Amperes, Free Standing Air Filled Terminal Compartment, 15 KV - 200 Amp Cutout.....	69,759.72	
<b>26 11 16 11-0040 Reinforced Concrete Curb With 6" Slab (26 11 16 11-0011)</b>		
Note: For transformer liquid containment area.		
26 11 16 11-0041 EA 112.5 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	7,902.35	1,329.43
26 11 16 11-0042 EA 150 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	7,902.35	1,329.43
26 11 16 11-0043 EA 225 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	7,902.35	1,329.43
26 11 16 11-0044 EA 300 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	7,902.35	1,329.43
26 11 16 11-0045 EA 500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	7,902.35	1,329.43
26 11 16 11-0046 EA 750 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	7,902.35	1,329.43
26 11 16 11-0047 EA 1,000 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	7,902.35	1,329.43
26 11 16 11-0048 EA 1,500 KVA, Reinforced Curb With 6" Slab, Transformer Liquid Containment Area.....	9,678.34	1,532.85
<b>26 11 16 11-0049 Dry Type Substation Transformer (26 11 16 11)</b>		
Note: Standard NEMA design 3 phase - 150 C rise - 60 Hz self-cooled, ventilated.		
<b>26 11 16 11-0050 Primary 4.16 Or 4.8 KV Secondary 208 Y/120 Or 240 Volt (26 11 16 11-0049)</b>		
Note: Primary 4.160 or 4.8 KV (delta or wye).		
26 11 16 11-0051 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	63,693.17	1,242.29
For Gas Filled Transformers, Add	36,725.14	
For Single Phase Transformers, Deduct	-1,530.21	
For Dry Type Unit, Add	13,714.35	
26 11 16 11-0052 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	63,848.46	1,319.94
For Gas Filled Transformers, Add	36,725.14	
For Single Phase Transformers, Deduct	-1,530.21	
For Dry Type Unit, Add	13,729.87	
26 11 16 11-0053 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	65,111.60	1,552.87
For Gas Filled Transformers, Add	37,203.51	
For Single Phase Transformers, Deduct	-1,550.15	
For Dry Type Unit, Add	13,951.86	
26 11 16 11-0054 EA 300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	71,869.48	1,708.16
For Gas Filled Transformers, Add	41,071.89	
For Single Phase Transformers, Deduct	-1,711.33	
For Dry Type Unit, Add	15,401.33	
26 11 16 11-0055 EA 500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer.....	79,697.54	2,018.73
For Gas Filled Transformers, Add	45,396.04	
For Single Phase Transformers, Deduct	-1,891.50	
For Dry Type Unit, Add	17,048.96	

<b>26</b>	<b>Electrical</b>
<b>26 10</b>	<b>Medium-Voltage Electrical Distribution</b>
<b>26 11</b>	<b>Substations</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0056 EA 750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	92,340.68	2,329.31
For Gas Filled Transformers, Add	52,609.24	
For Single Phase Transformers, Deduct	-2,192.05	
For Dry Type Unit, Add	19,755.92	
26 11 16 11-0057 EA 1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	107,158.91	2,795.18
For Gas Filled Transformers, Add	60,941.14	
For Single Phase Transformers, Deduct	-2,539.21	
For Dry Type Unit, Add	22,904.12	
26 11 16 11-0058 EA 1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	126,776.68	3,105.75
For Gas Filled Transformers, Add	72,339.11	
For Single Phase Transformers, Deduct	-3,014.13	
For Dry Type Unit, Add	27,145.49	
26 11 16 11-0059 EA 2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	164,722.68	3,261.04
For Gas Filled Transformers, Add	94,920.37	
For Single Phase Transformers, Deduct	-3,955.02	
For Dry Type Unit, Add	35,456.34	
<b>26 11 16 11-0060 Primary 4.16 Or 4.8 KV Secondary 480 Y/277 Or 480 Volt</b> <small>(26 11 16 11-0049)</small>		
Note: Primary 4.16 or 4.8 KV (delta or wye).		
26 11 16 11-0061 EA 112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	61,521.05	1,242.29
For Gas Filled Transformers, Add	35,421.87	
For Single Phase Transformers, Deduct	-1,475.91	
For Dry Type Unit, Add	13,236.48	
26 11 16 11-0062 EA 150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	63,848.46	1,319.94
For Gas Filled Transformers, Add	36,725.14	
For Single Phase Transformers, Deduct	-1,530.21	
For Dry Type Unit, Add	13,729.87	
26 11 16 11-0063 EA 225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	65,111.60	1,552.87
For Gas Filled Transformers, Add	37,203.51	
For Single Phase Transformers, Deduct	-1,550.15	
For Dry Type Unit, Add	13,951.86	
26 11 16 11-0064 EA 300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	71,869.48	1,708.16
For Gas Filled Transformers, Add	41,071.89	
For Single Phase Transformers, Deduct	-1,711.33	
For Dry Type Unit, Add	15,401.33	
26 11 16 11-0065 EA 500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	79,697.54	2,018.73
For Gas Filled Transformers, Add	45,396.04	
For Single Phase Transformers, Deduct	-1,891.50	
For Dry Type Unit, Add	17,048.96	
26 11 16 11-0066 EA 750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	92,340.68	2,329.31
For Gas Filled Transformers, Add	52,609.24	
For Single Phase Transformers, Deduct	-2,192.05	
For Dry Type Unit, Add	19,755.92	
26 11 16 11-0067 EA 1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	107,158.91	2,795.18
For Gas Filled Transformers, Add	60,941.14	
For Single Phase Transformers, Deduct	-2,539.21	
For Dry Type Unit, Add	22,904.12	
26 11 16 11-0068 EA 1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	126,776.68	3,105.75
For Gas Filled Transformers, Add	72,339.11	
For Single Phase Transformers, Deduct	-3,014.13	
For Dry Type Unit, Add	27,145.49	
26 11 16 11-0069 EA 2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	164,722.68	3,261.04
For Gas Filled Transformers, Add	94,920.37	
For Single Phase Transformers, Deduct	-3,955.02	
For Dry Type Unit, Add	35,456.34	
26 11 16 11-0070 EA 2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	180,890.99	3,416.33
For Gas Filled Transformers, Add	104,435.00	
For Single Phase Transformers, Deduct	-4,351.46	
For Dry Type Unit, Add	38,976.10	
26 11 16 11-0071 EA 3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	202,025.03	3,571.61
For Gas Filled Transformers, Add	116,929.09	
For Single Phase Transformers, Deduct	-4,872.05	
For Dry Type Unit, Add	43,588.32	
26 11 16 11-0072 EA 3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 4.16 Or 4.8 KV, Dry Transformer .....	233,071.73	3,726.89
For Gas Filled Transformers, Add	135,370.76	
For Single Phase Transformers, Deduct	-5,640.45	
For Dry Type Unit, Add	50,381.32	
<b>26 11 16 11-0073 Primary 13.8 KV (Delta Or Wye) Secondary 208 Y/120 Or 240 Volt</b> <small>(26 11 16 11-0049)</small>		
26 11 16 11-0074 EA 112.5 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....	68,498.66	1,397.58
For Gas Filled Transformers, Add	39,422.09	
For Single Phase Transformers, Deduct	-1,642.59	
For Dry Type Unit, Add	14,734.28	
26 11 16 11-0075 EA 150 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....	70,813.50	1,475.23
For Gas Filled Transformers, Add	40,717.82	
For Single Phase Transformers, Deduct	-1,696.58	
For Dry Type Unit, Add	15,224.91	
26 11 16 11-0076 EA 225 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....	75,705.22	1,708.16
For Gas Filled Transformers, Add	43,373.33	
For Single Phase Transformers, Deduct	-1,807.22	
For Dry Type Unit, Add	16,245.19	



<b>Electrical</b>	<b>26</b>
<b>Medium-Voltage Electrical Distribution</b>	<b>26 10</b>
<b>Substations</b>	<b>26 11</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 11 16 11-0077	EA		300 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....	79,908.02	1,863.45
			<i>For Gas Filled Transformers, Add</i>	45,708.68	
			<i>For Single Phase Transformers, Deduct</i>	-1,904.53	
			<i>For Dry Type Unit, Add</i>	17,132.54	
26 11 16 11-0078	EA		500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....	91,101.00	2,174.02
			<i>For Gas Filled Transformers, Add</i>	52,051.77	
			<i>For Single Phase Transformers, Deduct</i>	-2,168.82	
			<i>For Dry Type Unit, Add</i>	19,520.45	
26 11 16 11-0079	EA		750 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....	100,931.68	2,484.60
			<i>For Gas Filled Transformers, Add</i>	57,577.49	
			<i>For Single Phase Transformers, Deduct</i>	-2,399.06	
			<i>For Dry Type Unit, Add</i>	21,608.67	
26 11 16 11-0080	EA		1,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....	117,840.41	2,950.46
			<i>For Gas Filled Transformers, Add</i>	67,163.69	
			<i>For Single Phase Transformers, Deduct</i>	-2,798.49	
			<i>For Dry Type Unit, Add</i>	25,216.78	
26 11 16 11-0081	EA		1,500 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....	142,913.60	3,261.04
			<i>For Gas Filled Transformers, Add</i>	81,834.92	
			<i>For Single Phase Transformers, Deduct</i>	-3,409.79	
			<i>For Dry Type Unit, Add</i>	30,658.34	
26 11 16 11-0082	EA		2,000 KVA, Substation, Secondary 208 Y / 120 Volt Or 240 Volt, Primary 13.8 KV, Dry Transformer .....	172,930.74	3,416.33
			<i>For Gas Filled Transformers, Add</i>	99,658.85	
			<i>For Single Phase Transformers, Deduct</i>	-4,152.45	
			<i>For Dry Type Unit, Add</i>	37,224.84	
<b>26 11 16 11-0083</b>			<b>Primary 13.8 KV (Delta Or Wye) Secondary 480 Y/277 Or 480 Volt</b> <small>(26 11 16 11-0049)</small>		
26 11 16 11-0084	EA		112.5 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	68,498.66	1,397.58
			<i>For Gas Filled Transformers, Add</i>	39,422.09	
			<i>For Single Phase Transformers, Deduct</i>	-1,642.59	
			<i>For Dry Type Unit, Add</i>	14,734.28	
26 11 16 11-0085	EA		150 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	70,813.50	1,475.23
			<i>For Gas Filled Transformers, Add</i>	40,717.82	
			<i>For Single Phase Transformers, Deduct</i>	-1,696.58	
			<i>For Dry Type Unit, Add</i>	15,224.91	
26 11 16 11-0086	EA		225 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	75,705.22	1,708.16
			<i>For Gas Filled Transformers, Add</i>	43,373.33	
			<i>For Single Phase Transformers, Deduct</i>	-1,807.22	
			<i>For Dry Type Unit, Add</i>	16,245.19	
26 11 16 11-0087	EA		300 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	79,908.02	1,863.45
			<i>For Gas Filled Transformers, Add</i>	45,708.68	
			<i>For Single Phase Transformers, Deduct</i>	-1,904.53	
			<i>For Dry Type Unit, Add</i>	17,132.54	
26 11 16 11-0088	EA		500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	91,101.00	2,174.02
			<i>For Gas Filled Transformers, Add</i>	52,051.77	
			<i>For Single Phase Transformers, Deduct</i>	-2,168.82	
			<i>For Dry Type Unit, Add</i>	19,520.45	
26 11 16 11-0089	EA		750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	88,376.08	2,484.60
			<i>For Gas Filled Transformers, Add</i>	50,044.13	
			<i>For Single Phase Transformers, Deduct</i>	-2,085.17	
			<i>For Dry Type Unit, Add</i>	18,846.43	
26 11 16 11-0090	EA		1,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	92,046.32	2,950.46
			<i>For Gas Filled Transformers, Add</i>	51,687.24	
			<i>For Single Phase Transformers, Deduct</i>	-2,153.64	
			<i>For Dry Type Unit, Add</i>	19,542.08	
26 11 16 11-0091	EA		1,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	113,360.96	3,261.04
			<i>For Gas Filled Transformers, Add</i>	64,103.33	
			<i>For Single Phase Transformers, Deduct</i>	-2,670.97	
			<i>For Dry Type Unit, Add</i>	24,156.76	
26 11 16 11-0092	EA		2,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	134,626.61	3,416.33
			<i>For Gas Filled Transformers, Add</i>	76,676.38	
			<i>For Single Phase Transformers, Deduct</i>	-3,194.85	
			<i>For Dry Type Unit, Add</i>	28,797.94	
26 11 16 11-0093	EA		2,500 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	150,602.62	3,571.61
			<i>For Gas Filled Transformers, Add</i>	86,075.64	
			<i>For Single Phase Transformers, Deduct</i>	-3,586.49	
			<i>For Dry Type Unit, Add</i>	32,275.39	
26 11 16 11-0094	EA		3,000 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	177,012.58	3,726.89
			<i>For Gas Filled Transformers, Add</i>	101,735.27	
			<i>For Single Phase Transformers, Deduct</i>	-4,238.97	
			<i>For Dry Type Unit, Add</i>	38,048.31	
26 11 16 11-0095	EA		3,750 KVA, Substation, Secondary 480 Y / 277 Volt Or 480 Volt, Primary 13.8 KV, Dry Transformer .....	217,373.21	3,882.18
			<i>For Gas Filled Transformers, Add</i>	125,765.30	
			<i>For Single Phase Transformers, Deduct</i>	-5,240.22	
			<i>For Dry Type Unit, Add</i>	46,890.38	

**26 12 Medium-Voltage Transformers** (26 10)

**26 12 13 Liquid-Filled, Medium-Voltage Transformers** (26 12)

**26 12 13 00-0001 Removal And Relocation Of Transformers** (26 12 13)

26 12 13 00-0002	EA	Removal And Relocation Of Up To 37.5 KVA Oil Filled Transformer .....	1,579.56
26 12 13 00-0003	EA	Removal And Relocation Of >37.5 To 100 KVA Oil Filled Transformers .....	2,906.83

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 12 Medium-Voltage Transformers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 12 13 00-0004	<b>Single Phase Oil Filled Distribution Transformers</b> <sup>(26 12 13)</sup>	
	Note: Self-protected type, CSP, external secondary breaker handle, external tap changer.	
26 12 13 00-0005	<b>Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL. Rated To 5 KVA</b> <sup>(26 12 13 00-0004)</sup>	
26 12 13 00-0006 EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	7,697.06 636.13
26 12 13 00-0007 EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	9,220.69 795.16
26 12 13 00-0008 EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	10,704.83 954.19
26 12 13 00-0009 EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	13,877.15 1,192.74
26 12 13 00-0010 EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	16,463.97 1,431.28
26 12 13 00-0011 EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	22,999.41 1,669.82
26 12 13 00-0012 EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	27,238.74 1,987.88
26 12 13 00-0013	<b>Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt, 2-2.5 Percent Taps FCAN And FCBN. Rated To 5 KVA</b> <sup>(26 12 13 00-0004)</sup>	
26 12 13 00-0014 EA	10 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,697.06 636.13
26 12 13 00-0015 EA	15 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,397.11 795.16
26 12 13 00-0016 EA	25 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,704.83 954.19
26 12 13 00-0017 EA	37.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,877.15 1,192.74
26 12 13 00-0018 EA	50 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	16,463.97 1,431.28
26 12 13 00-0019 EA	75 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	21,185.97 1,669.82
26 12 13 00-0020 EA	100 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	26,317.86 1,987.88
26 12 13 00-0021	<b>Primary 13.8/14.4 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCBN And FCAN</b> <sup>(26 12 13 00-0004)</sup>	
26 12 13 00-0022 EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,491.23 636.13
26 12 13 00-0023 EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,662.01 795.16
26 12 13 00-0024 EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,152.30 954.19
26 12 13 00-0025 EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,749.64 1,192.74
26 12 13 00-0026 EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	15,925.61 1,431.28
26 12 13 00-0027 EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	21,525.99 1,669.82
26 12 13 00-0028 EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	26,402.86 1,987.88
26 12 13 00-0029	<b>Primary 13.8/14.4 KV Ground Y Secondary 240/480 Volt, 2-2.5 Percent Taps FCBN And FCAN</b> <sup>(26 12 13 00-0004)</sup>	
26 12 13 00-0030 EA	10 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,446.86 636.13
26 12 13 00-0031 EA	15 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,647.05 795.16
26 12 13 00-0032 EA	25 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	12,732.92 954.19
26 12 13 00-0033 EA	37.5 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	16,046.91 1,192.74
26 12 13 00-0034 EA	50 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	18,500.87 1,431.28
26 12 13 00-0035 EA	75 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	25,334.63 1,669.82
26 12 13 00-0036 EA	100 KVA Transformer Primary 13.8 / 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	32,551.27 1,987.88
26 12 13 00-0037	<b>Transformer Platforms</b> <sup>(26 12 13 00-0004)</sup>	
26 12 13 00-0038 EA	Transformer Platforms, 75 - 167 KVA.....	5,858.87 1,074.26
26 12 13 00-0039	<b>Primary 24.9 KV, Ground Y Secondary 240/480 Volt, 2-2.5 Percent Tops FCBN Auto FCAN</b> <sup>(26 12 13 00-0004)</sup>	
26 12 13 00-0040 EA	10 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,318.30 636.13
26 12 13 00-0041 EA	15 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,438.29 795.16
26 12 13 00-0042 EA	25 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	12,734.45 954.19
26 12 13 00-0043 EA	37.5 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	16,045.03 1,192.74
26 12 13 00-0044 EA	50 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	18,659.25 1,510.79
26 12 13 00-0045 EA	75 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	25,339.30 1,669.82
26 12 13 00-0046 EA	100 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	32,551.27 1,987.88
26 12 13 00-0047 EA	167 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	43,554.97 2,544.49
26 12 13 00-0048 EA	250 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	55,729.43 3,419.17
26 12 13 00-0049 EA	333 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	65,289.65 3,975.78
26 12 13 00-0050 EA	500 KVA Transformer Primary 24.9 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	83,033.64 4,293.84
26 12 13 00-0051	<b>Primary 4.8 KV Ground Y Secondary 120/240V 4-2.5 Percent Taps FCBN, Class A, 95 KV BIL</b> <sup>(26 12 13 00-0004)</sup>	
26 12 13 00-0052 EA	10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	7,697.06 778.94
26 12 13 00-0053 EA	15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	9,220.69 973.58
26 12 13 00-0054 EA	25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	10,704.19 1,167.13
26 12 13 00-0055 EA	37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	13,878.68 1,462.61
26 12 13 00-0056 EA	50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	16,462.50 1,752.04
26 12 13 00-0057 EA	75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	22,997.41 2,040.53
26 12 13 00-0058 EA	100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 1 Phase.....	27,238.74 2,434.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 12 13 00-0059</b> Primary 4.8 KV Ground Y Secondary 120/240V 2-2.5 Percent Taps FCAN And FCBN <small>(26 12 13 00-0004)</small>		
26 12 13 00-0060 EA 10 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,697.06	778.94
26 12 13 00-0061 EA 15 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	9,397.11	973.58
26 12 13 00-0062 EA 25 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,704.19	1,167.13
26 12 13 00-0063 EA 37.5 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,878.68	1,462.61
26 12 13 00-0064 EA 50 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	16,462.50	1,752.04
26 12 13 00-0065 EA 75 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	21,183.97	2,040.53
26 12 13 00-0066 EA 100 KVA Transformer Primary 4.8 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	26,317.86	2,434.13
<b>26 12 13 00-0067</b> Primary 7.2 To 14.4 KV Ground Y <small>(26 12 13 00-0004)</small>		
<b>26 12 13 00-0068</b> Primary 7.2 To 14.4 KV Ground Y Secondary 120 / 240 V 2-2.5 Percent Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0069 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,150.67	636.13
26 12 13 00-0070 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	7,324.12	795.16
26 12 13 00-0071 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,455.31	954.19
26 12 13 00-0072 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	11,076.46	1,192.74
26 12 13 00-0073 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,888.30	1,431.28
26 12 13 00-0074 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	22,044.72	1,669.82
26 12 13 00-0075 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 120/240 Volt, 2 Taps, Oil Filled, 1 Phase.....	25,360.62	1,987.88
<b>26 12 13 00-0076</b> Primary 7.2 To 14.4 KV Ground Y Secondary 240 / 480 V 2-2.5 Pct Taps FCBN And FCAN <small>(26 12 13 00-0067)</small>		
26 12 13 00-0077 EA 10 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	5,682.87	636.13
26 12 13 00-0078 EA 15 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	6,736.04	795.16
26 12 13 00-0079 EA 25 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	8,188.00	954.19
26 12 13 00-0080 EA 37.5 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	10,541.84	1,192.74
26 12 13 00-0081 EA 50 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	13,153.19	1,431.28
26 12 13 00-0082 EA 75 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	19,371.61	1,669.82
26 12 13 00-0083 EA 100 KVA Transformer Primary 7.2 - 14.4 KV Ground Y, Secondary 240/480 Volt, 2 Taps, Oil Filled, 1 Phase.....	22,687.52	1,987.88
<b>26 12 13 00-0084</b> 3 Phase Oil Filled Distribution Transformers <small>(26 12 13)</small>		
<b>26 12 13 00-0085</b> Primary 4.16/4.8 KV Ground Y Secondary 120/240 Volt <small>(26 12 13 00-0084)</small>		
Note: 4-2.5 Percent taps FCBN, Class A, 95 KV BIL.		
26 12 13 00-0086 EA 112.5 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	28,006.86	2,226.43
26 12 13 00-0087 EA 150 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	35,079.38	2,385.46
26 12 13 00-0088 EA 225 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	46,569.90	3,021.59
26 12 13 00-0089 EA 300 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	60,803.16	3,816.75
26 12 13 00-0090 EA 500 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	89,641.12	4,293.84
26 12 13 00-0091 EA 750 KVA Transformer Primary 4.16 / 4.8 KV Ground Y, Secondary 120/240 Volt, 4 Taps, Oil Filled, 3 Phase.....	136,840.61	5,725.11
<b>26 12 16</b> Dry-Type, Medium-Voltage Transformers <small>(26 12)</small>		
<b>26 12 16 00-0001</b> Removal and Relocation of Transformers <small>(26 12 16)</small>		
26 12 16 00-0002 EA Removal And Relocation Of Up To 37.5 KVA "Dry Type" Transformer .....	644.44	
26 12 16 00-0003 EA Removal And Relocation Of >37.5 To 112.5 KVA "Dry Type" Transformer.....	2,864.19	
<b>26 12 19</b> Pad-Mounted, Liquid-Filled, Medium-Voltage Transformers <small>(26 12)</small>		
<b>26 12 19 00-0001</b> Single Phase Pad Mounted Distribution Transformers <small>(26 12 19)</small>		
Note: Designed for residential and multi-family buildings. UL listed.		
<b>26 12 19 00-0002</b> Mini Pak - Single Phase KVA 25 Thru 167 - 95 KV BIL.- Oil Filled <small>(26 12 19 00-0001)</small>		
Note: Self actuating pressure relief device, taps, 4-1/2 % below or 2-1/2 % above and below. Designed for loop feed grounded wye distribution system.		
<b>26 12 19 00-0003</b> Primary, 4.16/4.8 KV Ground Y Or Delta <small>(26 12 19 00-0002)</small>		
Note: 2.4 To 24.94 KV ground Y / 14.4 KV secondary - 240/120 Volt, 480/240 Volt, 277 V. Rated to 5 KVA.		
26 12 19 00-0004 EA 25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	18,192.17	776.44
26 12 19 00-0005 EA 37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	19,763.45	931.73
26 12 19 00-0006 EA 50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	23,567.41	1,087.02
26 12 19 00-0007 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	29,222.62	1,164.66
26 12 19 00-0008 EA 100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	33,203.32	1,242.29
26 12 19 00-0009 EA 167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt .....	43,449.43	1,630.52
<b>26 12 19 00-0010</b> Factory Modifications Material Cost Only <small>(26 12 19 00-0002)</small>		
26 12 19 00-0011 EA Loadbreaker Current Limiting Fuse Factory Modifications.....	3,984.20	
26 12 19 00-0012 EA Loadbreaker Oil Switch, 2 Position Factory Modifications .....	4,186.29	

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 12 Medium-Voltage Transformers**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0013	EA		Loadbreaker Inserts, Factory Modifications.....	4,604.92	
<b>26 12 19 00-0014</b>			<b>Distribution - Single Phase Multiple Building Transformer</b> <small>(26 12 19 00-0001)</small> Note: KVA 25 to 250, KVA BIL-95, 125, 150 standard features. Oil filled, self-actuating pressure relief device, lighting arrester mounted. Pad HV/LV barrier, etc. with taps 4-1/2 % below or 2-1/2 % above and below.		
<b>26 12 19 00-0015</b>			<b>Primary, 4.16/4.8 KVA Ground Y Or Delta</b> <small>(26 12 19 00-0014)</small> Note: 2.4 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0016	EA		25 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	22,982.98	776.44
26 12 19 00-0017	EA		37.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	25,817.54	776.44
26 12 19 00-0018	EA		50 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	27,697.71	1,063.72
26 12 19 00-0019	EA		75 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	34,703.32	1,063.72
26 12 19 00-0020	EA		100 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	38,978.45	1,397.58
26 12 19 00-0021	EA		167 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	46,738.79	1,397.58
26 12 19 00-0022	EA		250 KVA, Primary 4.16 / 4.8 KV Ground Y / 2.4 - 24.94 KV Ground Y / 14.4 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	75,736.44	1,941.10
<b>26 12 19 00-0023</b>			<b>Factory Modifications Material Cost Only</b> <small>(26 12 19 00-0014)</small>		
26 12 19 00-0024	EA		Loadbreaker Current Limiting Fuse Factory Modifications.....	5,312.26	
26 12 19 00-0025	EA		Lightning Arrestors, Factory Modifications.....	1,345.98	
26 12 19 00-0026	EA		Loadbreaker Oil Switch, 2 Position Factory Modifications.....	4,186.29	
26 12 19 00-0027	EA		Loop Feed Air Switch, Factory Modifications.....	6,813.55	
26 12 19 00-0028	EA		Loadbreaker Inserts (Two), Factory Modifications.....	1,818.87	
26 12 19 00-0029	EA		Bay-O-Net Fuse 25 Thru 167 KVA Factory Modifications.....	1,573.47	
<b>26 12 19 00-0030</b>			<b>Primary, 12.47 KV Ground Y Or Delta</b> <small>(26 12 19 00-0014)</small> Note: 7.2 To 34.5 KV ground Y / 19.9 KV secondary - 240/120 V, 120/240 V, 240/480 V, 480/240 V, 277V. Rated to 5 KVA.		
26 12 19 00-0031	EA		25 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	24,940.86	776.44
26 12 19 00-0032	EA		37.5 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	26,478.65	776.44
26 12 19 00-0033	EA		50 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	27,441.61	1,063.72
26 12 19 00-0034	EA		75 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	33,153.09	1,063.72
26 12 19 00-0035	EA		100 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	42,214.95	1,397.58
26 12 19 00-0036	EA		167 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	52,464.86	1,397.74
26 12 19 00-0037	EA		250 KVA, Primary 12.47 KV Ground Y / 7.2 - 34.5 KV Ground Y / 19.9 KV, Secondary 240/120 Volt, 480/240 Volt, 277 Volt.....	66,616.97	1,941.10
<b>26 12 19 00-0038</b>			<b>Oil Filled Distribution Transformer Single Phase Cluster Mounted</b> <small>(26 12 19 00-0001)</small> Note: Conventional type.		
<b>26 12 19 00-0039</b>			<b>13.8/14.4 KV Ground Y Or Delta Primary 120/240V</b> <small>(26 12 19 00-0038)</small> Note: 2.5 Taps FCBN and FCAN.		
26 12 19 00-0040	EA		10 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	16,574.30	535.79
26 12 19 00-0041	EA		37.5 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	20,477.21	753.45
26 12 19 00-0042	EA		50 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	31,429.60	1,205.52
26 12 19 00-0043	EA		100 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	56,671.02	1,205.52
26 12 19 00-0044	EA		167 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	78,205.18	1,975.72
26 12 19 00-0045	EA		250 KVA, 13.8 - 14.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	105,354.55	1,975.72
<b>26 12 19 00-0046</b>			<b>Oil Filled Distribution Transformer Single Phase</b> <small>(26 12 19 00-0001)</small>		
<b>26 12 19 00-0047</b>			<b>7.2 KV Primary, 120/240 Volt Secondary</b> <small>(26 12 19 00-0046)</small>		
26 12 19 00-0048	EA		10 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	16,053.02	569.27
26 12 19 00-0049	EA		15 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	17,513.40	569.27
26 12 19 00-0050	EA		25 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	20,685.70	803.68
26 12 19 00-0051	EA		37.5 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	26,574.46	803.68
26 12 19 00-0052	EA		50 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	30,592.99	1,088.32
26 12 19 00-0053	EA		100 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	55,339.72	1,674.33
26 12 19 00-0054	EA		167 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	77,162.62	1,674.33
26 12 19 00-0055	EA		250 KVA, 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	103,745.25	2,092.92
<b>26 12 19 00-0056</b>			<b>7.2 KV Primary, 240/480 Volt Secondary</b> <small>(26 12 19 00-0046)</small>		
26 12 19 00-0057	EA		10 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	16,053.02	569.27
26 12 19 00-0058	EA		15 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	17,513.93	569.27





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 12 19 00-0059 EA 25 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	20,685.70	803.68
26 12 19 00-0060 EA 37.5 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	26,574.46	803.68
26 12 19 00-0061 EA 50 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	30,592.99	1,088.32
26 12 19 00-0062 EA 75 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	47,568.63	1,473.41
26 12 19 00-0063 EA 100 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	55,339.72	1,473.41
26 12 19 00-0064 EA 167 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	77,162.62	1,858.51
26 12 19 00-0065 EA 250 KVA, 7.2 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	103,745.25	2,092.92
<b>26 12 19 00-0066 2.4 KV Primary, 277 Volt Secondary (26 12 19 00-0046)</b>		
26 12 19 00-0067 EA 10 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	17,688.85	569.27
26 12 19 00-0068 EA 15 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	19,296.13	569.27
26 12 19 00-0069 EA 25 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	22,799.32	803.68
26 12 19 00-0070 EA 37.5 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	29,274.54	803.68
26 12 19 00-0071 EA 50 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	33,696.53	1,088.32
26 12 19 00-0072 EA 75 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	52,215.88	1,473.41
26 12 19 00-0073 EA 100 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	61,056.32	1,473.41
26 12 19 00-0074 EA 167 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	85,186.35	1,858.51
26 12 19 00-0075 EA 250 KVA, 2.4 KV Primary, 277 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	114,622.37	2,092.92
<b>26 12 19 00-0076 2.4 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)</b>		
26 12 19 00-0077 EA 10 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	16,053.02	569.27
26 12 19 00-0078 EA 15 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	17,513.40	569.27
26 12 19 00-0079 EA 25 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	20,685.70	1,093.51
26 12 19 00-0080 EA 37.5 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	26,574.46	1,473.41
26 12 19 00-0081 EA 50 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	30,592.99	1,088.32
26 12 19 00-0082 EA 75 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	47,336.45	1,473.41
26 12 19 00-0083 EA 100 KVA, 2.4 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	55,329.03	1,473.41
<b>26 12 19 00-0084 2.4 KV Primary, 240/480 Volt Secondary (26 12 19 00-0046)</b>		
26 12 19 00-0085 EA 10 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	16,053.02	569.27
26 12 19 00-0086 EA 15 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	17,513.40	569.27
26 12 19 00-0087 EA 25 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	20,685.70	803.68
26 12 19 00-0088 EA 37.5 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	26,574.46	803.68
26 12 19 00-0089 EA 50 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	30,592.99	1,088.32
26 12 19 00-0090 EA 75 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	47,336.45	1,473.41
26 12 19 00-0091 EA 100 KVA, 2.4 KV Primary, 240/480 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase .....	55,329.03	1,473.41
<b>26 12 19 00-0092 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary (26 12 19 00-0046)</b>		
26 12 19 00-0093 EA 10 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	13,510.50	586.02
26 12 19 00-0094 EA 15 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	14,641.83	652.99
26 12 19 00-0095 EA 25 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	17,913.55	719.97
26 12 19 00-0096 EA 37 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	22,658.16	1,004.60
26 12 19 00-0097 EA 50 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	25,176.45	1,172.03
26 12 19 00-0098 EA 75 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	35,184.82	1,372.95
26 12 19 00-0099 EA 100 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	42,470.76	1,573.87
26 12 19 00-0100 EA 167 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	67,210.14	2,009.20
26 12 19 00-0101 EA 250 KVA, 2.4 KV x 7.2 KV Primary, 120/240 Volt Secondary, Oil Filled Distribution Transformer, 1 Phase.....	93,696.54	2,260.35
<b>26 13 Medium-Voltage Switchgear (26 10)</b>		
<b>26 13 16 Medium-Voltage Fusible Interrupter Switchgear (26 13)</b>		
<b>26 13 16 00-0001 "Switchyard", Substation Secondary Distribution Section (26 13 16)</b>		
Note: Medium voltage, metal clad switchgear, 3 phase, 3 wire with ground. Includes breaker element, housing, control switch two lamps - 3 cable terminals.		
<b>26 13 16 00-0002 4.16 Or 4.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)</b>		
26 13 16 00-0003 EA 1,200 Amperes, 75 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....	14,331.01	1,741.30
For Weatherproofing, Add	2,908.65	
26 13 16 00-0004 EA 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	14,993.70	1,741.30
For Weatherproofing, Add	3,054.44	
26 13 16 00-0005 EA 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	20,271.31	2,218.49
For Weatherproofing, Add	4,165.95	
26 13 16 00-0006 EA 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	27,348.73	2,218.49
For Weatherproofing, Add	5,685.64	
26 13 16 00-0007 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	38,807.12	2,678.93
For Weatherproofing, Add	8,161.91	
26 13 16 00-0008 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section.....	35,620.98	2,678.93
For Weatherproofing, Add	7,441.99	
<b>26 13 16 00-0009 7.2 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)</b>		
26 13 16 00-0010 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section .....	21,008.15	2,009.20
For Weatherproofing, Add	4,352.36	

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 13 Medium-Voltage Switchgear**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0011 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section ..... <i>For Weatherproofing, Add</i>	25,881.33 5,341.93	2,511.50
26 13 16 00-0012 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section ..... <i>For Weatherproofing, Add</i>	36,058.62 7,521.66	3,013.80
<b>26 13 16 00-0013 13.8 KV Switchgear Sections, With Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)</b>		
26 13 16 00-0014 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section ..... <i>For Weatherproofing, Add</i>	20,386.25 4,193.42	2,009.20
26 13 16 00-0015 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section ..... <i>For Weatherproofing, Add</i>	27,821.17 5,780.94	2,009.20
26 13 16 00-0016 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	40,237.68 8,457.67	2,678.93
26 13 16 00-0017 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section ..... <i>For Weatherproofing, Add</i>	25,667.30 5,274.73	2,678.93
26 13 16 00-0018 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section ..... <i>For Weatherproofing, Add</i>	36,794.87 7,674.79	3,348.67
26 13 16 00-0019 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	51,025.05 10,754.81	3,348.67
26 13 16 00-0020 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section ..... <i>For Weatherproofing, Add</i>	35,543.63 7,385.51	3,348.67
26 13 16 00-0021 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section ..... <i>For Weatherproofing, Add</i>	48,810.97 10,256.10	3,348.67
26 13 16 00-0022 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, With Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	62,882.45 13,306.20	3,348.67
<b>26 13 16 00-0023 4.16 Or 4.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)</b>		
26 13 16 00-0024 EA 1,200 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	6,609.20 1,300.21	1,096.69
26 13 16 00-0025 EA 1,200 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,405.78 1,695.46	1,096.69
26 13 16 00-0026 EA 2,000 Amperes, 250 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	9,263.84 1,834.57	1,456.67
26 13 16 00-0027 EA 2,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,479.14 2,273.36	1,799.91
26 13 16 00-0028 EA 3,000 Amperes, 350 MVA, 4.16 Or 4.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,115.27 3,073.31	1,799.91
<b>26 13 16 00-0029 7.2 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)</b>		
26 13 16 00-0030 EA 1,200 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,283.76 1,647.24	1,674.33
26 13 16 00-0031 EA 2,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	10,819.82 2,155.83	1,674.33
26 13 16 00-0032 EA 3,000 Amperes, 500 MVA, 7.2 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	16,227.13 3,296.77	1,674.33
<b>26 13 16 00-0033 13.8 KV Switchgear Section, Without Air Circuit Breaker, Secondary Distribution Section (26 13 16 00-0001)</b>		
26 13 16 00-0034 EA 1,200 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	8,614.07 1,696.78	1,423.19
26 13 16 00-0035 EA 1,200 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	9,134.02 1,811.17	1,423.19
26 13 16 00-0036 EA 1,200 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	12,938.95 2,599.30	1,758.05
26 13 16 00-0037 EA 2,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	11,840.40 2,308.92	2,109.66
26 13 16 00-0038 EA 2,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	14,290.63 2,847.97	2,109.66
26 13 16 00-0039 EA 2,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	16,453.59 3,274.06	2,461.27
26 13 16 00-0040 EA 3,000 Amperes, 500 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	15,700.00 3,059.38	2,812.88
26 13 16 00-0041 EA 3,000 Amperes, 750 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	17,378.97 3,428.75	2,812.88
26 13 16 00-0042 EA 3,000 Amperes, 1,000 MVA, 13.8 KV Switchgear, Without Air Circuit Breaker, Secondary Distribution Section..... <i>For Weatherproofing, Add</i>	21,240.29 4,228.91	3,147.75
<b>26 13 16 00-0043 Accessories For Substation Secondary Distribution Sections (26 13 16 00-0001)</b>		
26 13 16 00-0044 EA 1,200 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,403.45 636.63	1,061.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 16 00-0045 EA 2,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,419.57 706.47	1,177.39
26 13 16 00-0046 EA 3,000 Amperes, Transformer Throat Connection Accessories, Secondary Distribution Section ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,005.22 849.92	1,416.48
26 13 16 00-0047 EA 3-Phase Pothead Termination Accessories, Secondary Distribution Section .....	5,136.44	2,130.25
26 13 16 00-0048 EA 5 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	4,811.38	140.55
26 13 16 00-0049 EA 5 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	6,398.37	140.55
26 13 16 00-0050 EA 5 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	11,647.13	140.55
26 13 16 00-0051 EA 15 KV, 15 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	9,171.27	140.55
26 13 16 00-0052 EA 15 KV, 30 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	10,004.35	140.55
26 13 16 00-0053 EA 15 KV, 75 KVA, Control Power Transformer Accessories, Secondary Distribution Section.....	13,587.71	140.55
26 13 16 00-0054 EA 6 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section .....	2,225.45	140.55
26 13 16 00-0055 EA 9 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section .....	2,504.40	140.55
26 13 16 00-0056 EA 15 KV, 3-Phase Lightning Arrester Accessories, Secondary Distribution Section .....	3,760.42	140.55
26 13 16 00-0057 EA Overcurrent Phase Protection, Time And Instantaneous Device 67 .....	2,437.30	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 13 16 00-0058 EA AC Ammeter With Switch .....	1,004.86	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 13 16 00-0059 EA AC Voltmeter With Switch And Potential Transformer.....	1,004.86	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 13 16 00-0060 EA Indicating Wattmeter.....	1,445.15	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 13 16 00-0061 EA Indicating Varmeter.....	1,689.41	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 13 16 00-0062 EA Indicating Watt-hour Meter, 2 Element .....	1,092.31	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 13 16 00-0063 EA Ground Protection, Time Or Instantaneous Device 67N.....	2,809.77	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 13 16 00-0064 EA Differential Generator Protection Single Phase NEMA Device 87 .....	4,553.54	140.55
26 13 16 00-0065 EA Current Transformers 5 And 15 KV Single Secondary .....	708.57	140.55
26 13 16 00-0066 EA Potential Transformers 5 KV And 15 KV With Primary Fuses .....	3,066.82	140.55
<b>26 13 19 Medium-Voltage Vacuum Interrupter Switchgear (26 13)</b>		
26 13 19 00-0001 Vacuum Circuit Breakers 13.8 KV (26 13 19)		
26 13 19 00-0002 EA 1,200 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	49,390.42	2,092.92
26 13 19 00-0003 EA 1,200 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	54,618.44	2,645.45
26 13 19 00-0004 EA 1,200 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	62,044.63	2,645.45
26 13 19 00-0005 EA 2,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	56,451.69	2,092.92
26 13 19 00-0006 EA 2,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	63,350.13	2,092.92
26 13 19 00-0007 EA 2,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	72,233.71	2,461.27
26 13 19 00-0008 EA 3,000 Amperes, 500 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	74,690.17	2,812.88
26 13 19 00-0009 EA 3,000 Amperes, 750 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	81,623.65	2,812.88
26 13 19 00-0010 EA 3,000 Amperes, 1,000 MVA, Vacuum Circuit Breaker, 13.8 KV Substation, Secondary Distribution Section.....	89,237.26	3,164.49
<b>26 13 29 Medium-Voltage Compartmentalized Switchgear (26 13)</b>		
26 13 29 00-0001 Substation Secondary Distribution Section (26 13 29)		
Note: Low voltage drawout switchgear 277/480 volt, 3 phase 4 wire.		
26 13 29 00-0002 Switchgear Compartment Complete With Air Circuit Breaker (26 13 29 00-0001)		
Note: With solid state long - time and instantaneous trips.		
26 13 29 00-0003 EA 800 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-206.....	15,817.61	1,325.96
26 13 29 00-0004 EA 1,600 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-416.....	25,225.54	2,004.72
26 13 29 00-0005 EA 2,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-420.....	34,173.78	2,462.49
26 13 29 00-0006 EA 3,200 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-632.....	56,181.47	2,857.12
26 13 29 00-0007 EA 4,000 Amperes, 277/480 Volt Switchgear, With Air Circuit Breaker, Manual DS-840.....	72,045.72	3,251.75
26 13 29 00-0008 Switchgear Compartment Without Circuit Breaker (26 13 29 00-0001)		
26 13 29 00-0009 EA 800 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	7,012.47	402.53
26 13 29 00-0010 EA 1,600 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	8,102.64	402.53
26 13 29 00-0011 EA 2,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	10,598.77	591.94
26 13 29 00-0012 EA 3,200 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	15,053.00	591.94
26 13 29 00-0013 EA 4,000 Amperes, 277/480 Volt Switchgear, Without Air Circuit Breaker, Secondary Distribution Section.....	25,037.99	868.18
26 13 29 00-0014 Switchgear Compartment, Blank, Use As Filler Or Metering (26 13 29 00-0001)		
Note: No provisions for future breaker.		
26 13 29 00-0015 EA 600 To 2,000 Amperes, Blank Section Filler, Secondary Distribution Section .....	7,970.22	449.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	257.24	
26 13 29 00-0016 EA 3,000 Amperes, Blank Section Filler, Secondary Distribution Section.....	10,008.96	449.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	301.98	
26 13 29 00-0017 EA 4,000 Amperes, Blank Section Filler, Secondary Distribution Section .....	12,991.86	694.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	434.09	
26 13 29 00-0018 Accessories For Substation Secondary Distribution (26 13 29 00-0001)		
26 13 29 00-0019 EA Short Time Delay Accessories, Secondary Distribution Section.....	4,437.08	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	

**26 Electrical**  
**26 10 Medium-Voltage Electrical Distribution**  
**26 13 Medium-Voltage Switchgear**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 13 29 00-0020 EA Key Interlock Accessories, Secondary Distribution Section.....	3,438.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.33	
26 13 29 00-0021 EA Ammeter And Switch Complete Accessories, Secondary Distribution Section.....	11,028.88	140.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.33	
26 13 29 00-0022 EA Voltmeter And Switch Complete Accessories, Secondary Distribution Section.....	11,028.88	140.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.33	
26 13 29 00-0023 EA Wattmeter - Complete Accessories, Secondary Distribution Section.....	14,607.29	140.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.33	
26 13 29 00-0024 EA Watt-hour Meter - Complete Accessories, Secondary Distribution Section.....	18,939.05	140.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.33	
26 13 29 00-0025 EA Circuit Breaker Lifting Device Accessories, Secondary Distribution Section.....	8,161.57	160.28
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	96.14	
26 13 29 00-0026 EA Weatherproofing, Per Vertical Section Accessories, Secondary Distribution Section.....	24,045.88	2,373.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,424.27	
26 13 29 00-0027 EA Current Transformer, Single Section 5 To 800 Single Secondary 5 To 800.....	4,964.42	140.55
26 13 29 00-0028 EA Potential Transformers Each With Fuses Accessories, Secondary Distribution Section.....	5,841.24	140.55
26 13 29 00-0029 EA Shunt Trip And Auxiliary Switch Accessories, Secondary Distribution Section.....	3,122.56	70.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.17	
26 13 29 00-0030 EA 3 Current Limiting Fuses 15 KV Accessories, Secondary Distribution Section.....	23,804.43	140.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.33	
26 13 29 00-0031 EA 3 Phase Surge Capacitors 15 KV Accessories, Secondary Distribution Section.....	2,971.89	70.27

**26 18 Medium-Voltage Circuit Protection Devices (26 10)**

**26 18 36 Medium-Voltage Enclosed Fuses (26 18)**

26 18 36 00-0001 Sectionalizing Switch (26 18 36)		
26 18 36 00-0002 Pad Mounted Metal Enclosed Oil Filled Switching Units (26 18 36 00-0001)		
Note: 15 KV - 25 KV.		
26 18 36 00-0003 Sectionalizing Tapping And Fusing Underground Feeders (26 18 36 00-0002)		
Note: 200 Amp replaceable bushing wells recessed locking assembly oil level and oil fill plugs.		
26 18 36 00-0004 EA 3 Phase, 1 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	72,684.31	1,164.66
26 18 36 00-0005 EA 3 Phase, 2 Switch Up And 2 Switch Downstream Tapping And Fusing Underground.....	81,747.34	1,164.66

**26 19 High-Voltage Circuit Protection (26 10)**

**26 19 18 Protection Devices (26 19)**

26 19 18 00-0001 Primary Fuse Cutouts (26 19 18)		
Note: Interrupting rating RMS, amperes - 25,000 symmetric and 40,000 asymmetric.		
26 19 18 00-0002 Non-Loadbreak Current Limiting Primary Fuse Cutouts (26 19 18 00-0001)		
Note: Includes the fuse and cut-out switch.		
26 19 18 00-0003 8.3 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0004 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	883.24	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	200.92	
26 19 18 00-0005 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	1,050.66	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.15	
26 19 18 00-0006 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	1,217.54	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.21	
26 19 18 00-0007 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	1,238.04	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.39	
26 19 18 00-0008 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Non-Loadbreak Current Limiting.....	1,238.04	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.39	
26 19 18 00-0009 17.1 KV-95 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0010 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Non-Loadbreak Current Limiting.....	883.24	334.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	200.92	
26 19 18 00-0011 17.1 KV-125 KV-BIL Non-Loadbreak Current Limiting (26 19 18 00-0002)		
26 19 18 00-0012 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Non-Loadbreak Current Limiting.....	910.17	334.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	200.92	
26 19 18 00-0013 Fuseholders (26 19 18 00-0002)		
Note: Including current limiting fuse.		
26 19 18 00-0014 EA 15 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	769.76	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	200.92	
26 19 18 00-0015 EA 25 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	937.18	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.15	
26 19 18 00-0016 EA 40 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	1,104.06	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	301.21	
26 19 18 00-0017 EA 100 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	779.08	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	200.92	
26 19 18 00-0018 EA 200 A 8.3 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	946.50	418.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.15	
26 19 18 00-0019 EA 15 A 17.1 KV Primary Fuseholder With Fuse Non-Loadbreak Current Limiting.....	769.76	334.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	200.92	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Medium-Voltage Electrical Distribution</b>	<b>26 10</b>	
<b>High-Voltage Circuit Protection</b>	<b>26 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 19 18 00-0020 Accessories</b> <small>(26 19 18 00-0002)</small>		
26 19 18 00-0021 EA Hot Line Clamp.....	111.49	37.67
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>25.11</i>	
26 19 18 00-0022 EA Stirrup.....	120.04	37.67
<b>26 19 18 00-0023 Loadbreak Current Limiting Primary Fuse Cutouts</b> <small>(26 19 18 00-0001)</small>		
<i>Note: Includes fuse, cutout switch, crossarm mounting bracket and fuse holder.</i>		
<b>26 19 18 00-0024 8.3 KV-95 KV BIL Loadbreak Current Limiting</b> <small>(26 19 18 00-0023)</small>		
26 19 18 00-0025 EA 15 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	1,092.90	418.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>200.92</i>	
26 19 18 00-0026 EA 25 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	1,260.32	418.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>251.15</i>	
26 19 18 00-0027 EA 40 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	1,427.20	418.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>301.21</i>	
26 19 18 00-0028 EA 100 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	1,467.23	418.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>301.39</i>	
26 19 18 00-0029 EA 200 A Primary Fuse Cutout 8.3 KV - 95 KV Loadbreak Current Limiting.....	1,467.23	418.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>301.39</i>	
<b>26 19 18 00-0030 17.1 KV-95 KV BIL Loadbreak Current Limiting</b> <small>(26 19 18 00-0023)</small>		
26 19 18 00-0031 EA 15 A Primary Fuse Cutout 17.1 KV - 95 KV Loadbreak Current Limiting.....	1,092.90	334.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>200.92</i>	
<b>26 19 18 00-0032 17.1 KV-125 KV BIL Loadbreak Current Limiting</b> <small>(26 19 18 00-0023)</small>		
26 19 18 00-0033 EA 15 A Primary Fuse Cutout 17.1 KV - 125 KV Loadbreak Current Limiting.....	1,092.90	334.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>200.92</i>	
<b>26 19 18 00-0034 Fuseholders</b> <small>(26 19 18 00-0023)</small>		
<i>Note: Includes current limiting fuses.</i>		
26 19 18 00-0035 EA 15 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	779.38	418.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>200.92</i>	
26 19 18 00-0036 EA 25 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	946.80	418.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>251.15</i>	
26 19 18 00-0037 EA 40 Amperes, 8.3 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	1,113.68	418.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>301.21</i>	
26 19 18 00-0038 EA 15 Amperes, 17.1 KV Primary Fuseholder With Fuse Loadbreak Current Limiting.....	779.38	418.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>200.92</i>	
<b>26 19 18 00-0039 Pole Mounted Capacitors</b> <small>(26 19 18 00-0023)</small>		
26 19 18 00-0040 EA Capacitors - Pole Mounted 6 KVAR.....	1,870.07	337.55
<b>26 19 80 Transmission and Distribution Accessories</b> <small>(26 19)</small>		
<b>26 19 80 60 Structure Assemblies</b> <small>(26 19 80)</small>		
<b>26 19 80 60-0001 Pole Structure Assemblies</b> <small>(26 19 80 60)</small>		
<b>26 19 80 60-0002 5 KV Pole Structure Assemblies</b> <small>(26 19 80 60-0001)</small>		
<i>Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.</i>		
26 19 80 60-0003 EA Type OH-1, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	674.13	318.13
26 19 80 60-0004 EA Type OH-2, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,127.79	535.79
26 19 80 60-0005 EA Type OH-3, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,216.64	418.58
26 19 80 60-0006 EA Type OH-4, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	684.21	217.66
26 19 80 60-0007 EA Type OH-5, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	878.79	301.38
26 19 80 60-0008 EA Type OH-6, Single Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,565.25	602.76
26 19 80 60-0009 EA Type OH-7, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,219.50	452.07
26 19 80 60-0010 EA Type OH-8, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,262.06	904.14
26 19 80 60-0011 EA Type OH-9, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,565.60	1,021.34
26 19 80 60-0012 EA Type OH-10, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,384.05	502.30
26 19 80 60-0013 EA Type OH-11, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,212.42	535.79
26 19 80 60-0014 EA Type OH-12, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,307.67	1,088.32
26 19 80 60-0015 EA Type OH-13, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,696.87	652.99
26 19 80 60-0016 EA Type OH-14, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,080.22	468.82
26 19 80 60-0017 EA Type OH-15, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,061.37	954.37
26 19 80 60-0018 EA Type OH-16, Three Phase, 5 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,558.84	485.56
<b>26 19 80 60-0019 15 KV Pole Structure Assemblies</b> <small>(26 19 80 60-0001)</small>		
<i>Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.</i>		
26 19 80 60-0020 EA Type OH-1, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	701.06	318.13
26 19 80 60-0021 EA Type OH-2, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,166.26	535.79
26 19 80 60-0022 EA Type OH-3, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,347.43	418.58
26 19 80 60-0023 EA Type OH-4, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	730.37	217.66

<b>26</b>	<b>Electrical</b>
<b>26 10</b>	<b>Medium-Voltage Electrical Distribution</b>
<b>26 19</b>	<b>High-Voltage Circuit Protection</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 19 80 60-0024 EA Type OH-5, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	944.19	284.64
26 19 80 60-0025 EA Type OH-6, Single Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,696.04	602.76
26 19 80 60-0026 EA Type OH-7, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,315.67	452.07
26 19 80 60-0027 EA Type OH-8, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,458.25	904.14
26 19 80 60-0028 EA Type OH-9, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,831.04	1,021.34
26 19 80 60-0029 EA Type OH-10, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,514.84	502.30
26 19 80 60-0030 EA Type OH-11, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,262.43	535.79
26 19 80 60-0031 EA Type OH-12, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,357.68	1,088.32
26 19 80 60-0032 EA Type OH-13, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,796.89	652.99
26 19 80 60-0033 EA Type OH-14, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,130.23	452.07
26 19 80 60-0034 EA Type OH-15, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,111.38	954.37
26 19 80 60-0035 EA Type OH-16, Three Phase, 15 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,658.86	586.02
<b>26 19 80 60-0036</b>	<b>25 KV Pole Structure Assemblies</b> (26 19 80 60-0001)	
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 19 80 60-0037 EA Type OH-3, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,972.62	502.30
26 19 80 60-0038 EA Type OH-4, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,188.38	251.15
26 19 80 60-0039 EA Type OH-5, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,727.33	385.10
26 19 80 60-0040 EA Type OH-6, Single Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,371.61	786.93
26 19 80 60-0041 EA Type OH-7, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,201.06	586.02
26 19 80 60-0042 EA Type OH-8, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,633.41	1,155.29
26 19 80 60-0043 EA Type OH-9, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,533.76	1,305.98
26 19 80 60-0044 EA Type OH-13, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,433.16	761.83
26 19 80 60-0045 EA Type OH-16, Three Phase, 25 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,136.84	761.83
<b>26 19 80 60-0046</b>	<b>50 KV Pole Structure Assemblies</b> (26 19 80 60-0001)	
Note: Includes insulator with pin, bayonet, bolts, washers, and neutral wire brackets.		
26 19 80 60-0047 EA Type OH-3, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,650.55	686.48
26 19 80 60-0048 EA Type OH-4, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,432.62	351.61
26 19 80 60-0049 EA Type OH-5, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	1,858.67	552.53
26 19 80 60-0050 EA Type OH-6, Single Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,517.31	1,121.80
26 19 80 60-0051 EA Type OH-7, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	2,689.91	837.16
26 19 80 60-0052 EA Type OH-8, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	5,191.33	1,674.33
26 19 80 60-0053 EA Type OH-9, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	6,098.11	1,858.51
26 19 80 60-0054 EA Type OH-10, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,092.99	904.14
26 19 80 60-0055 EA Type OH-13, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,166.20	1,046.46
26 19 80 60-0056 EA Type OH-16, Three Phase, 50 KV, Pole Assembly Insulation With Pin, Bayonet, Bolts, Washer.....	3,043.09	987.85
<b>26 19 80 60-0057</b>	<b>Overhead To Underground Conversion Structures</b> (26 19 80 60)	
Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination and neutral wire brackets. Excludes pole.		
<b>26 19 80 60-0058</b>	<b>5 KV Structures</b> (26 19 80 60-0057)	
Note: Excludes pole.		
26 19 80 60-0059 EA (3 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,651.04	3,348.67
26 19 80 60-0060 EA (3 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,651.04	3,348.67
26 19 80 60-0061 EA (4 Wire Tangent), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,651.04	3,348.67
26 19 80 60-0062 EA (4 Wire Dead End), 5 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,651.04	3,348.67
<b>26 19 80 60-0063</b>	<b>15 KV Structures</b> (26 19 80 60-0057)	
Note: Excludes pole.		
26 19 80 60-0064 EA (3 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,832.05	3,348.67
26 19 80 60-0065 EA (3 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,832.05	3,348.67
26 19 80 60-0066 EA (4 Wire Tangent), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,832.05	3,348.67
26 19 80 60-0067 EA (4 Wire Dead End), 15 KV, Overhead To Underground Conversion Structures, Without Poles.....	6,832.05	3,348.67
<b>26 19 80 60-0068</b>	<b>25 KV Structures</b> (26 19 80 60-0057)	
Note: Excludes pole.		
26 19 80 60-0069 EA (3 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	7,029.51	3,348.67
26 19 80 60-0070 EA (3 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	7,029.51	3,348.67
26 19 80 60-0071 EA (4 Wire Tangent), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	7,029.51	3,348.67
26 19 80 60-0072 EA (4 Wire Dead End), 25 KV, Overhead To Underground Conversion Structures, Without Poles.....	7,029.51	3,348.67
<b>26 19 80 60-0073</b>	<b>Transformer Stations</b> (26 19 80 60)	
Note: Includes insulator with pin, bolts, washers, crossarms, fused cut out, arrestors, ground rods, clamps, conduit, molding, cable termination, neutral wire brackets and transformer mounting bracket(s). Excludes pole and transformer.		
<b>26 19 80 60-0074</b>	<b>5 KV Station</b> (26 19 80 60-0073)	
26 19 80 60-0075 EA (Single Transformer, 1 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	10,461.50	4,463.78
26 19 80 60-0076 EA (Double Transformer, 1 Phase, 3 Wire Tangent), 5 KV Transformer Station Without Pole.....	11,731.03	5,023.00
26 19 80 60-0077 EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 5 KV Transformer Station Without Pole.....	13,000.57	5,580.56
26 19 80 60-0078 EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 5 KV Transformer Station Without Pole.....	13,000.57	5,580.56
26 19 80 60-0079 EA (Single Transformer, 1 Phase, 2 Wire Tangent), 5 KV Transformer Station Without Pole.....	10,461.50	4,463.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>26 19 80 60-0080</b>	<b>15 KV Stations</b> <small>(26 19 80 60-0073)</small>		
26 19 80 60-0081	EA (Single Transformer, 1 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	10,741.27	4,462.51
26 19 80 60-0082	EA (Double Transformer, 1 Phase, 3 Wire Tangent), 15 KV Transformer Station Without Pole.....	12,010.80	5,023.00
26 19 80 60-0083	EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 15 KV Transformer Station Without Pole.....	13,280.34	5,580.56
26 19 80 60-0084	EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 15 KV Transformer Station Without Pole.....	13,280.34	5,580.56
26 19 80 60-0085	EA (Single Transformer, 1 Phase, 2 Wire Tangent), 15 KV Transformer Station Without Pole.....	10,741.27	4,463.78

<b>26 19 80 60-0086</b>	<b>25 KV Stations</b> <small>(26 19 80 60-0073)</small>		
26 19 80 60-0087	EA (Single Transformer, 1 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	11,046.47	4,463.78
26 19 80 60-0088	EA (Double Transformer, 1 Phase, 3 Wire Tangent), 25 KV Transformer Station Without Pole.....	12,316.00	5,023.00
26 19 80 60-0089	EA (Triple Transformer, 3 Phase, 4 Wire Tangent), 25 KV Transformer Station Without Pole.....	13,585.54	5,580.56
26 19 80 60-0090	EA (Triple Transformer, 3 Phase, 4 Wire Dead End), 25 KV Transformer Station Without Pole.....	13,585.54	5,580.56
26 19 80 60-0091	EA (Single Transformer, 1 Phase, 2 Wire Tangent), 25 KV Transformer Station Without Pole.....	11,046.47	4,463.78

**26 20 Low-Voltage Electrical Distribution** (26)

**26 21 Low-Voltage Electrical Service Entrance** (26 20)

See CSI section 26 05 13 00-0000 for wire and cables.

**26 21 13 Low-Voltage Overhead Electrical Service Entrance** (26 21)

<b>26 21 13 00-0001</b>	<b>Service Drop Cable And Weatherheads</b> <small>(26 21 13)</small>		
<b>26 21 13 00-0002</b>	<b>600 Volt Insulated Stranded Conductors</b> <small>(26 21 13 00-0001)</small>		
<b>26 21 13 00-0003</b>	<b>Aluminum Duplex ACSR Neutral</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0004	LF #6 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	11.40	3.98
26 21 13 00-0005	LF #4 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	13.97	4.72
26 21 13 00-0006	LF #2 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	17.10	5.32
26 21 13 00-0007	LF 1/0 AWG, 600 Volt, Aluminum Duplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	23.78	6.69

<b>26 21 13 00-0008</b>	<b>Aluminum Triplex ACSR Neutral</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0009	LF #6 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	14.31	4.72
26 21 13 00-0010	LF #4 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	16.66	5.32
26 21 13 00-0011	LF #2 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	21.28	6.69
26 21 13 00-0012	LF 1/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	27.32	8.16
26 21 13 00-0013	LF 2/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	35.24	10.81
26 21 13 00-0014	LF 4/0 AWG, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	45.96	13.39
26 21 13 00-0015	LF 336 MCM, 600 Volt, Aluminum Triplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	66.43	15.95

<b>26 21 13 00-0016</b>	<b>Aluminum Quadruplex ACSR Neutral</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0017	LF #6 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	16.74	5.32
26 21 13 00-0018	LF #4 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	21.27	6.69
26 21 13 00-0019	LF #2 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	27.64	8.59
26 21 13 00-0020	LF 1/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	37.21	10.81
26 21 13 00-0021	LF 2/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	41.62	11.96
26 21 13 00-0022	LF 3/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	49.25	13.39
26 21 13 00-0023	LF 4/0 AWG, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	57.43	15.95
26 21 13 00-0024	LF 336 MCM, 600 Volt, Aluminum Quadruplex ACSR With Neutral Cable Service Drop, Stranded Cable.....	77.72	17.62

<b>26 21 13 00-0025</b>	<b>Weatherproof Conduit Hubs</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0026	EA 1/2" Weatherproof Conduit Hubs.....	70.50	27.08
26 21 13 00-0027	EA 3/4" Weatherproof Conduit Hubs.....	80.36	30.76
26 21 13 00-0028	EA 1" Weatherproof Conduit Hubs.....	92.63	34.46
26 21 13 00-0029	EA 1-1/4" Weatherproof Conduit Hubs.....	128.12	46.15
26 21 13 00-0030	EA 1-1/2" Weatherproof Conduit Hubs.....	140.39	49.84
26 21 13 00-0031	EA 2" Weatherproof Conduit Hubs.....	177.73	57.84
26 21 13 00-0032	EA 2-1/2" Weatherproof Conduit Hubs.....	227.41	65.22
26 21 13 00-0033	EA 3" Weatherproof Conduit Hubs.....	289.59	76.91
26 21 13 00-0034	EA 4" Weatherproof Conduit Hubs.....	522.74	153.82

<b>26 21 13 00-0035</b>	<b>Service Entrance Cap, Threaded Weatherhead, Galvanized</b> <small>(26 21 13 00-0002)</small>		
26 21 13 00-0036	EA 1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #14 Through #10 AWG Cable Service.....	76.99	27.08
26 21 13 00-0037	EA 3/4" Galvanized Threaded Service Entrance Weatherhead Cap For #12 Through #8 AWG Cable Service.....	88.14	30.76
26 21 13 00-0038	EA 1" Galvanized Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	100.48	34.46
26 21 13 00-0039	EA 1-1/4" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	134.92	46.15
26 21 13 00-0040	EA 1-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For #4 Through #2 AWG Cable Service.....	151.25	49.84
26 21 13 00-0041	EA 2" Galvanized Threaded Service Entrance Weatherhead Cap For 1/0 Through 2/0 AWG Cable Service.....	194.37	57.84
26 21 13 00-0042	EA 2-1/2" Galvanized Threaded Service Entrance Weatherhead Cap For 3/0 Through 4/0 Cable Service.....	308.73	65.22
26 21 13 00-0043	EA 3" Galvanized Threaded Service Entrance Weatherhead Cap For 250 Through 350 MCM Cable Service.....	352.97	76.91
26 21 13 00-0044	EA 4" Galvanized Threaded Service Entrance Weatherhead Cap For 600 Through 750 MCM Cable Service.....	595.93	153.82

<b>26 21 13 00-0045</b>	<b>Service Entrance Cap, Clamp-On Weatherhead, Aluminum</b> <small>(26 21 13 00-0002)</small>		
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**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 21 Low-Voltage Electrical Service Entrance**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 21 13 00-0046 EA 1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	74.96	27.08
26 21 13 00-0047 EA 3/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	84.72	30.76
26 21 13 00-0048 EA 1" Aluminum Clamp-On Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	95.85	34.30
26 21 13 00-0049 EA 1-1/4" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	127.61	46.15
26 21 13 00-0050 EA 1-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	141.38	49.84
26 21 13 00-0051 EA 2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	166.16	57.84
26 21 13 00-0052 EA 2-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	255.82	65.22
26 21 13 00-0053 EA 3" Aluminum Clamp-On Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	326.36	76.91
26 21 13 00-0054 EA 3-1/2" Aluminum Clamp-On Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	463.50	115.36
26 21 13 00-0055 EA 4" Aluminum Clamp-On Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	564.26	153.82
<b>26 21 13 00-0056 Service Entrance Cap, Threaded Weatherhead, Polyvinyl Chloride (PVC) (26 21 13 00-0002)</b>		
26 21 13 00-0057 EA 1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #14 To #12 AWG Cable Service.....	73.01	27.08
26 21 13 00-0058 EA 3/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #10 To #8 AWG Cable Service.....	83.44	30.76
26 21 13 00-0059 EA 1" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #6 AWG Cable Service.....	94.54	34.30
26 21 13 00-0060 EA 1-1/4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	126.05	46.15
26 21 13 00-0061 EA 1-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For #4 To #2 AWG Cable Service.....	137.11	49.84
26 21 13 00-0062 EA 2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 1/0 To 2/0 AWG Cable Service.....	166.70	57.84
26 21 13 00-0063 EA 2-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 3/0 To 4/0 Cable Service.....	264.84	65.22
26 21 13 00-0064 EA 3" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 250 To 350 MCM Cable Service.....	298.47	76.91
26 21 13 00-0065 EA 3-1/2" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 400 To 500 MCM Cable Service.....	505.46	115.36
26 21 13 00-0066 EA 4" Polyvinyl Chloride (PVC) Threaded Service Entrance Weatherhead Cap For 600 To 750 MCM Cable Service.....	697.44	153.82
<b>26 21 16 Low-Voltage Underground Electrical Service Entrance (26 21)</b>		
<b>26 21 16 00-0001 Aluminum Triplex For Underground Service, Direct Burial (26 21 16)</b>		
Note: Excludes excavation and backfill.		
26 21 16 00-0002 MLF #6 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	6,723.52	1,488.32
26 21 16 00-0003 MLF #4 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	7,930.68	1,575.88
26 21 16 00-0004 MLF #2 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	9,720.23	1,674.33
26 21 16 00-0005 MLF 1/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	12,091.78	1,674.33
26 21 16 00-0006 MLF 2/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	13,602.90	1,786.01
26 21 16 00-0007 MLF 3/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	16,273.56	2,060.77
26 21 16 00-0008 MLF 4/0 AWG, 600 Volt, Aluminum Triplex URD With Neutral Cable, Stranded Cable, Direct Burial.....	19,666.44	2,678.93
<b>26 22 Low-Voltage Transformers (26 20)</b>		
<b>26 22 13 Low-Voltage Distribution Transformers (26 22)</b>		
<b>26 22 13 00-0001 Single Phase General Purpose "Dry Type" Transformers (26 22 13)</b>		
Note: 60 HZ type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor Use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
<b>26 22 13 00-0002 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers (26 22 13 00-0001)</b>		
Note: 2-2.5 Percent taps above and 4-2.5 percent taps below.		
26 22 13 00-0003 EA 1 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	1,759.56	393.04
26 22 13 00-0004 EA 3 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	2,425.30	471.66
26 22 13 00-0005 EA 5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	3,102.00	492.09
26 22 13 00-0006 EA 7.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	3,784.79	510.96
26 22 13 00-0007 EA 10 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	5,431.24	550.26
26 22 13 00-0008 EA 15 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	6,495.49	589.57
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	265.82	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	398.73	
26 22 13 00-0009 EA 25 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	7,125.65	628.87
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	293.40	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	440.09	
26 22 13 00-0010 EA 37.5 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	6,885.04	707.48
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	273.50	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	410.26	
26 22 13 00-0011 EA 50 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	8,228.25	786.09
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	332.80	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	499.20	
26 22 13 00-0012 EA 75 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	10,909.00	943.31
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	451.12	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	676.68	
26 22 13 00-0013 EA 100 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	13,870.17	1,100.53
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	583.46	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	875.18	
26 22 13 00-0014 EA 167 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	22,185.35	1,414.96
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	967.77	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	1,451.66	
26 22 13 00-0015 EA 250 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	40,177.91	1,729.40
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	1,835.96	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	2,753.93	
26 22 13 00-0016 EA 333 KVA, 480 Volt - 120/240 Volt Transformer, Dry, 1 Phase, 60 Hertz, General Purpose.....	63,171.29	1,965.23
<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	2,962.04	
<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>		
	4,443.06	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0017				<b>240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers</b> (26 22 13 00-0001) Note: 1-10 Percent x 2-5 percent FCBN taps.		
26 22 13 00-0018	EA			3 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	1,972.26	471.66
26 22 13 00-0019	EA			5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	2,376.05	491.30
26 22 13 00-0020	EA			7.5 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	2,973.29	510.96
26 22 13 00-0021	EA			10 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	3,522.97	550.26
26 22 13 00-0022				<b>240 x 480 Volt, 120/240 Volt, General Purpose Dry Type Transformers</b> (26 22 13 00-0001) Note: 2-5 Percent x 4 - 2.5 percent FCBN taps.		
26 22 13 00-0023	EA			15 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	6,761.30	589.57
26 22 13 00-0024	EA			25 KVA, 240 x 480 Volt - 120/240 Volt Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	7,419.04	628.87
26 22 13 00-0025				<b>1 Phase Mounting Brackets</b> (26 22 13 00-0001)		
26 22 13 00-0026	EA			1 Phase Mounting Brackets (Set Of 2) For Transformers Up To 100 KVA.....	736.07	281.10
26 22 13 00-0027				<b>1 Phase Weathershields</b> (26 22 13 00-0001) Note: Use with types DT-3 and DS-3.		
26 22 13 00-0028	EA			37.5 KVA 1 Phase Weathershields, Set Of 2.....	191.51	
26 22 13 00-0029	EA			50 KVA 1 Phase Weathershields, Set Of 2.....	244.11	
26 22 13 00-0030	EA			75 KVA 1 Phase Weathershields, Set Of 2.....	291.10	
26 22 13 00-0031	EA			100 KVA 1 Phase Weathershields, Set Of 2.....	347.27	
26 22 13 00-0032	EA			167 KVA 1 Phase Weathershields, Set Of 2.....	469.84	
26 22 13 00-0033	EA			250 KVA 1 Phase Weathershields, Set Of 2.....	561.77	
26 22 13 00-0034	EA			333 KVA 1 Phase Weathershields, Set Of 2.....	689.44	
26 22 13 00-0035				<b>Packaged Power Supply</b> (26 22 13 00-0001) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0036	EA			5 KVA, 480 Volt - 120/240 Volt, Transformer With 6 - 1 Pole / 3 - 2 Pole Max 20 Amperes Breakers.....	3,798.13	491.30
26 22 13 00-0037	EA			7.5 KVA, 480 Volt - 120/240 Volt, Transformer With 8 - 1 Pole / 4 - 2 Pole Max 30 Amperes Breakers.....	4,314.08	510.96
26 22 13 00-0038	EA			10 KVA, 480 Volt - 120/240 Volt, Transformer With 10 - 1 Pole / 5 - 2 Pole Max 40 Amperes Breakers.....	4,676.58	550.26
26 22 13 00-0039	EA			15 KVA, 480 Volt - 120/240 Volt, Transformer With 16 - 1 Pole / 8 - 2 Pole Max 60 Amperes Breakers.....	5,820.45	589.57
26 22 13 00-0040	EA			25 KVA, 480 Volt - 120/240 Volt, Transformer With 24 - 1 Pole / 12 - 2 Pole Max 100 Amperes Breakers.....	8,180.65	628.87
26 22 13 00-0041				<b>240 Volt, 120/240 Volt, Single Phase Isolation Transformer Computer Grade</b> (26 22 13 00-0001)		
26 22 13 00-0042	EA			0.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	2,826.87	353.74
26 22 13 00-0043	EA			1 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	4,080.09	393.04
26 22 13 00-0044	EA			2.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	4,748.00	471.66
26 22 13 00-0045	EA			5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	5,272.46	491.30
26 22 13 00-0046	EA			7.5 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	5,975.68	510.96
26 22 13 00-0047	EA			10 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	7,790.66	550.26
26 22 13 00-0048	EA			15 KVA, 1 Phase, 240 Volt - 120/240 Volt, Isolation Transformer.....	10,208.25	589.57
26 22 13 00-0049				<b>1 Phase, 208/600 Volt, Dry General Purpose Transformer</b> (26 22 13 00-0001)		
26 22 13 00-0050	EA			15 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	12,671.56	589.57
26 22 13 00-0051	EA			25 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	13,131.09	628.87
26 22 13 00-0052	EA			30 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	13,631.15	668.17
26 22 13 00-0053	EA			37.5 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	18,117.65	707.48
26 22 13 00-0054	EA			45 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	18,818.51	746.79
26 22 13 00-0055	EA			50 KVA, 208/600 Volt, Transformer, 1 Phase, 60 Hertz, General Purpose, Dry.....	25,251.54	786.09
26 22 13 00-0056				<b>3 Phase General Purpose "Dry Type" Transformer</b> (26 22 13 00-0001) Note: 60 Hz type EP and EPT 115 C rise, 185 C insulation, type DT-3 and DS-3 150 C rise, 220 C insulation. Indoor use. Wall mounted for up to 10 KVA, floor mounted for 15 KVA and larger. DT-3 and DS-3 use weathershields for outdoor placement. UL listed.		
26 22 13 00-0057				<b>Packaged Power Supply</b> (26 22 13 00-0056) Note: 2-5 Percent FCBN taps.		
26 22 13 00-0058	EA			15 KVA, 480 Volt - 208/120 Volt, Transformer With 12 - 1 Pole / 4 - 3 Pole Max, 40 Amperes Breakers.....	16,875.58	1,690.09
				<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	674.77	
				<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,012.15	
26 22 13 00-0059	EA			22.5 KVA, 480 Volt - 208/120 Volt, Transformer With 18 - 1 Pole / 6 - 3 Pole Max, 60 Amperes Breakers.....	20,339.71	1,808.00
				<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	836.18	
				<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,254.28	
26 22 13 00-0060	EA			30 KVA, 480 Volt - 208/120 Volt, Transformer With 24 - 1 Pole / 8 - 3 Pole Max, 80 Amperes Breakers.....	24,450.18	1,965.23
				<i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,025.99	
				<i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i>	1,538.98	
26 22 13 00-0061				<b>Drive Isolation Transformers</b> (26 22 13 00-0056) Note: Only use in step-up applications.		
26 22 13 00-0062				<b>230 Volt Drive Isolation Transformers</b> (26 22 13 00-0061)		

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 22 Low-Voltage Transformers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0063 EA 7.5 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	8,893.05	628.87
26 22 13 00-0064 EA 11 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,399.72	668.17
26 22 13 00-0065 EA 15 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,763.93	707.48
26 22 13 00-0066 EA 20 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	12,697.11	746.79
26 22 13 00-0067 EA 27 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,147.55	825.40
26 22 13 00-0068 EA 34 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	14,454.82	904.00
26 22 13 00-0069 EA 40 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	16,340.94	982.61
26 22 13 00-0070 EA 51 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	19,010.17	1,100.53
26 22 13 00-0071 EA 63 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	20,570.14	1,139.83
26 22 13 00-0072 EA 75 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	23,737.15	1,179.13
26 22 13 00-0073 EA 93 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	29,844.03	1,218.44
26 22 13 00-0074 EA 118 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	33,513.16	1,493.57
26 22 13 00-0075 EA 145 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	37,375.69	1,572.19
26 22 13 00-0076 EA 175 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	42,807.18	1,650.79
26 22 13 00-0077 EA 220 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	52,213.81	1,965.23
26 22 13 00-0078 EA 275 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	69,159.18	2,318.96
26 22 13 00-0079 EA 330 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	73,004.85	2,554.79
26 22 13 00-0080 EA 440 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	88,890.47	2,829.93
26 22 13 00-0081 EA 550 KVA, 230 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	109,694.84	3,144.36
<b>26 22 13 00-0082 208V Drive Isolation Transformers (26 22 13 00-0061)</b>		
26 22 13 00-0083 EA 7.5 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	9,281.69	628.87
26 22 13 00-0084 EA 11 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	10,861.05	668.17
26 22 13 00-0085 EA 15 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	11,239.80	707.48
26 22 13 00-0086 EA 20 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,267.37	746.79
26 22 13 00-0087 EA 27 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	13,732.74	825.40
26 22 13 00-0088 EA 30 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	15,019.94	864.70
26 22 13 00-0089 EA 45 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	17,151.27	1,021.92
26 22 13 00-0090 EA 51 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	19,865.75	1,100.53
26 22 13 00-0091 EA 63 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	21,501.13	1,139.83
26 22 13 00-0092 EA 75 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	24,825.33	1,179.13
26 22 13 00-0093 EA 93 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	31,239.06	1,218.44
26 22 13 00-0094 EA 118 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	35,066.93	1,493.57
26 22 13 00-0095 EA 145 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	39,118.07	1,572.19
26 22 13 00-0096 EA 175 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	44,818.02	1,650.79
26 22 13 00-0097 EA 220 KVA, 208 Volt, 3 Phase, Delta Primary: 460/266 Volt, 3 Phase, Secondary, Drive Isolation Transformers.....	54,671.43	1,965.23
<b>26 22 13 00-0098 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCBN Taps (26 22 13 00-0056)</b>		
26 22 13 00-0099 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	6,272.14	648.53
26 22 13 00-0100 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	8,241.39	707.48
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	341.32	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	511.98	
<b>26 22 13 00-0101 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 4-2.5 Percent FCBN Taps (26 22 13 00-0056)</b>		
26 22 13 00-0102 EA 30 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	9,228.05	864.70
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	374.93	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	562.40	
For K4 Factor Rating, Add	5,249.06	
For K13 Factor Rating, Add	7,498.65	
For K20 Factor Rating, Add	9,748.25	
26 22 13 00-0103 EA 37.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	11,155.37	943.31
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	463.44	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	695.16	
For K4 Factor Rating, Add	6,488.13	
For K13 Factor Rating, Add	9,268.75	
For K20 Factor Rating, Add	12,049.38	
26 22 13 00-0104 EA 45 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	11,657.88	1,021.92
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	480.70	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	721.05	
For K4 Factor Rating, Add	6,729.84	
For K13 Factor Rating, Add	9,614.05	
For K20 Factor Rating, Add	12,498.27	
26 22 13 00-0105 EA 50 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	15,341.33	1,100.53
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	657.01	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	985.52	
For K4 Factor Rating, Add	9,198.19	
For K13 Factor Rating, Add	13,140.27	
For K20 Factor Rating, Add	17,082.35	
26 22 13 00-0106 EA 75 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry.....	15,115.49	1,179.13
For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add	637.86	
For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add	956.79	
For K4 Factor Rating, Add	8,930.05	
For K13 Factor Rating, Add	12,757.22	
For K20 Factor Rating, Add	16,584.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0107 EA 112.5 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	18,822.59 799.63 1,199.45 11,194.86 15,992.66 20,790.46	1,414.96
26 22 13 00-0108 EA 150 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	24,473.03 1,066.43 1,599.65 14,930.07 21,328.67 27,727.27	1,572.19
26 22 13 00-0109 EA 225 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	33,400.00 1,473.48 2,210.22 20,628.69 29,469.55 38,310.42	1,965.23
26 22 13 00-0110 EA 300 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	40,706.54 1,791.64 2,687.46 25,082.95 35,832.78 46,582.61	2,436.88
26 22 13 00-0111 EA 500 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	58,445.59 2,623.57 3,935.35 36,729.91 52,471.30 68,212.69	2,987.14
26 22 13 00-0112 EA 750 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	135,221.54 6,399.48 9,599.21 89,592.66 127,989.51 166,386.36	3,571.61
26 22 13 00-0113 EA 1,000 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	178,262.32 8,520.07 12,780.11 119,280.99 170,401.41 221,521.83	3,930.45
<b>26 22 13 00-0114 480 Volt x 208Y/120 Volt, 2-2.5 Percent FCAN And 2-2.5 Percent FCBN Taps</b> <small>(26 22 13 00-0056)</small>		
26 22 13 00-0115 EA 6 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	5,096.00 2,714.29 3,877.56 5,040.83	609.22
26 22 13 00-0116 EA 9 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	6,272.14 3,482.56 4,975.09 6,467.62	648.53
26 22 13 00-0117 EA 15 KVA, 480 x 208 Y / 120 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	8,241.39 341.32 511.98 4,778.50 6,826.43 8,874.36	707.48
<b>26 22 13 00-0118 480 Volt x 480Y/277 Volt, 2-2.5 Percent FCAN And 4 Percent FCBN Taps</b> <small>(26 22 13 00-0056)</small>		
26 22 13 00-0119 EA 30 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	16,003.39 713.70 1,070.55 9,991.79 14,273.99 18,556.19	864.70
26 22 13 00-0120 EA 45 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	17,927.94 794.21 1,191.31 11,118.88 15,884.11 20,649.34	1,021.92
26 22 13 00-0121 EA 75 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry..... <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	26,516.11 1,207.89 1,811.84 16,910.49 24,157.84 31,405.19	1,179.13

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 22 Low-Voltage Transformers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0122 EA 112.5 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	33,301.61 1,523.58 2,285.38 21,330.18 30,471.68 39,613.18	1,414.96
26 22 13 00-0123 EA 150 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	40,134.92 1,849.53 2,774.29 25,893.39 36,990.56 48,087.73	1,572.19
26 22 13 00-0124 EA 225 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	51,456.14 2,376.28 3,564.43 33,267.98 47,525.69 61,783.40	1,965.23
26 22 13 00-0125 EA 300 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	62,554.67 2,884.05 4,326.07 40,376.64 57,680.91 74,985.18	2,436.88
26 22 13 00-0126 EA 500 KVA, 480 x 480 Y / 277 Volt, Transformer, 3 Phase, 60 Hertz, General Purpose, Dry <i>For Stainless Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For Silicon Steel Core With High Magnetic Permeability And Low Loss, Add</i> <i>For K4 Factor Rating, Add</i> <i>For K13 Factor Rating, Add</i> <i>For K20 Factor Rating, Add</i>	100,712.09 4,736.89 7,105.34 66,316.46 94,737.80 123,159.14	2,987.14
<b>26 22 13 00-0127 3 Phase 60 Hz K20 Dry Type Transformers (26 22 13 00-0056)</b>		
<b>26 22 13 00-0128 3 Phase 60 Hz K20 Dry Type Transformers, 115 C Rise (26 22 13 00-0127)</b> Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0129 EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	7,692.62	707.48
26 22 13 00-0130 EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	11,673.55	864.70
26 22 13 00-0131 EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	17,186.20	1,021.92
26 22 13 00-0132 EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	21,987.27	1,179.13
26 22 13 00-0133 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	33,108.64	1,414.96
26 22 13 00-0134 EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	40,303.77	1,572.19
26 22 13 00-0135 EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	46,842.88	1,965.23
26 22 13 00-0136 EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	74,549.16	2,436.88
<b>26 22 13 00-0137 3 Phase 60 Hz K20 Dry Type Transformers, 80 C Rise (26 22 13 00-0127)</b> Note: 220 C insulation 480 V-208 Y/120 V. 2-2.5 Percent above and 4-2.5 percent taps below.		
26 22 13 00-0138 EA 15 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	8,952.98	707.48
26 22 13 00-0139 EA 30 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	13,663.59	864.70
26 22 13 00-0140 EA 45 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	20,213.47	1,021.92
26 22 13 00-0141 EA 75 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	25,907.04	1,179.13
26 22 13 00-0142 EA 112.5 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	39,163.18	1,414.96
26 22 13 00-0143 EA 150 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	47,739.27	1,572.19
26 22 13 00-0144 EA 225 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	55,424.15	1,965.23
26 22 13 00-0145 EA 300 KVA, 480 Volt - 208 Y / 120 Volt Transformer, 3 Phase, 60 Hertz, K20	88,485.45	2,436.88
<b>26 22 13 00-0146 NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0056)</b>		
<b>26 22 13 00-0147 Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0146)</b> Note: Two taps at 2.5%, four at -2.5%.		
<b>26 22 13 00-0148 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers (26 22 13 00-0147)</b>		
26 22 13 00-0149 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	3,817.22	698.79
26 22 13 00-0150 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	4,657.38	854.08
26 22 13 00-0151 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	5,602.38	1,009.37
26 22 13 00-0152 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	7,407.17	1,164.66
26 22 13 00-0153 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	9,813.06	1,397.58
26 22 13 00-0154 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	12,095.50	1,552.87
26 22 13 00-0155 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	15,965.68	1,941.10
26 22 13 00-0156 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer	22,279.01	2,406.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 22 13 00-0157</b> 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0158 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	4,545.22	698.79
26 22 13 00-0159 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,539.21	854.08
26 22 13 00-0160 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,677.72	1,009.37
26 22 13 00-0161 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	8,930.77	1,164.66
26 22 13 00-0162 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	11,385.66	1,397.58
26 22 13 00-0163 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	14,792.43	1,552.87
26 22 13 00-0164 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	19,590.97	1,941.10
26 22 13 00-0165 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	27,518.54	2,406.95
<b>26 22 13 00-0166</b> 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0147)</small>		
26 22 13 00-0167 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	5,270.28	698.79
26 22 13 00-0168 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	6,423.49	854.08
26 22 13 00-0169 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	7,753.07	1,009.37
26 22 13 00-0170 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	10,451.93	1,164.66
26 22 13 00-0171 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	13,369.77	1,397.58
26 22 13 00-0172 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	17,489.35	1,552.87
26 22 13 00-0173 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	23,216.27	1,941.10
26 22 13 00-0174 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase, K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Aluminum Windings, NEMA Premium Efficient Dry Type Transformer.....	32,758.07	2,406.95
<b>26 22 13 00-0175</b> Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0146)</small>		
Note: Two taps at 2.5%, four at -2.5%.		
<b>26 22 13 00-0176</b> 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0177 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,027.77	698.79
26 22 13 00-0178 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,129.55	854.08
26 22 13 00-0179 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,392.98	1,009.37
26 22 13 00-0180 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,944.87	1,164.66
26 22 13 00-0181 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	13,399.16	1,397.58
26 22 13 00-0182 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	16,683.46	1,552.87
26 22 13 00-0183 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	22,131.13	1,941.10
26 22 13 00-0184 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 150 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	31,192.82	2,406.95
<b>26 22 13 00-0185</b> 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers <small>(26 22 13 00-0175)</small>		
26 22 13 00-0186 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	5,752.83	698.79
26 22 13 00-0187 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,013.83	854.08
26 22 13 00-0188 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	8,468.33	1,009.37
26 22 13 00-0189 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	11,468.49	1,164.66
26 22 13 00-0190 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	17,259.61	1,397.58
26 22 13 00-0191 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	21,646.19	1,552.87
26 22 13 00-0192 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	27,608.27	1,941.10
26 22 13 00-0193 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 115 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	40,865.99	2,406.95

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 22 Low-Voltage Transformers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 22 13 00-0194 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformers</b> <small>(26 22 13 00-0175)</small>		
26 22 13 00-0195 EA 15 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	6,480.34	698.79
26 22 13 00-0196 EA 30 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	7,898.10	854.08
26 22 13 00-0197 EA 45 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	9,543.66	1,009.37
26 22 13 00-0198 EA 75 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	12,989.63	1,164.66
26 22 13 00-0199 EA 112.5 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	20,360.72	1,397.58
26 22 13 00-0200 EA 150 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	26,145.97	1,552.87
26 22 13 00-0201 EA 225 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	33,082.95	1,941.10
26 22 13 00-0202 EA 300 kVA, 480 Volt Delta 208Y/120 Volt, 3 Phase K-1, NEMA 2 Enclosure, 80 Degree C Temperature Rise, Copper Windings, NEMA Premium Efficient Dry Type Transformer.....	48,591.79	2,406.95
<b>26 22 13 00-0203 3 Phase Weathershields</b> <small>(26 22 13 00-0056)</small> Note: Use with type DT-3 and DS-3.		
26 22 13 00-0204 EA 45-112.5 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2 .....	1,658.36	
26 22 13 00-0205 EA 150-300 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2 .....	2,816.20	
26 22 13 00-0206 EA 500-1,000 KVA 3 Phase Weathershields With DT-3, DS-3, Set Of 2 .....	2,816.20	
<b>26 22 13 00-0207 Three Phase Mounting Brackets</b> <small>(26 22 13 00-0056)</small>		
26 22 13 00-0208 EA 3 Phase Mounting Brackets (Set Of 2) For Transformers Up To 112.5 KVA .....	1,447.47	281.10
<b>26 22 13 00-0209 Pad Mounted Commercial Type Distribution Transformers UL Listed</b> <small>(26 22 13)</small>		
<b>26 22 13 00-0210 Distribution 3 Phase Oil Filled Transformer</b> <small>(26 22 13 00-0209)</small> Note: Designed for loads as shopping centers, institutions, and industrial plants with underground distribution. KVA-75 thru 1000, 3 phase 95 thru 150 KV BIL standard features. With taps 4-1/2 percent below - 2-1/2 percent above and below.		
<b>26 22 13 00-0211 Factory Modifications</b> <small>(26 22 13 00-0210)</small> Note: For use with series 4100 3 phase transformers.		
26 22 13 00-0212 EA Current Limiting Fuse 95 KV Series 4100, 3 Phase Transformer, Factory Modification .....	3,038.73	
26 22 13 00-0213 EA Lightning Arrestors 9-10 KV Series 4100, 3 Phase Transformer, Factory Modification .....	494.13	
26 22 13 00-0214 EA Loadbreaker Oil Switch, 2 Position Series 4100, 3 Phase Transformer, Factory Modification.....	1,976.53	
26 22 13 00-0215 EA Loop Feed Air Switch Series 4100, 3 Phase Transformer, Factory Modification .....	5,694.49	
26 22 13 00-0216 EA Loadbreaker Inserts Series 4100, 3 Phase Transformer, Factory Modification .....	697.60	
26 22 13 00-0217 EA Lightning Arrestors, 15 KV Series 4100, 3 Phase Transformer, Factory Modification .....	552.26	
<b>26 22 13 00-0218 Accessories For Transformer Liquid Containment Area</b> <small>(26 22 13 00-0210)</small> Note: Reinforced concrete curb with 6" slab.		
26 22 13 00-0219 EA Containment Area For 75 KVA .....	7,758.95	2,222.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,481.85	
26 22 13 00-0220 EA Containment Area For 112.5 KVA .....	7,758.95	2,222.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,481.85	
26 22 13 00-0221 EA Containment Area For 150 KVA .....	7,758.95	2,222.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,481.85	
26 22 13 00-0222 EA Containment Area For 225 KVA .....	7,758.95	2,222.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,481.85	
26 22 13 00-0223 EA Containment Area For 300 KVA .....	7,750.98	2,222.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,479.46	
26 22 13 00-0224 EA Containment Area For 500 KVA .....	7,750.98	2,222.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,479.46	
26 22 13 00-0225 EA Containment Area For 750 KVA .....	7,832.37	2,222.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,479.46	
26 22 13 00-0226 EA Containment Area For 1,000 KVA .....	9,012.47	2,222.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,479.46	
<b>26 22 13 00-0227 Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 95 KV BIL</b> <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0228 EA 45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	18,794.63	1,863.45
26 22 13 00-0229 EA 75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	20,538.62	1,863.45
26 22 13 00-0230 EA 112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	21,701.28	1,863.45
26 22 13 00-0231 EA 150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	25,189.27	1,863.45
26 22 13 00-0232 EA 225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	27,021.91	2,795.18



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 22 13 00-0233	EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	28,184.57	2,795.18
26 22 13 00-0234	EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	42,136.52	2,795.18
26 22 13 00-0235	EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	53,866.52	3,726.89
26 22 13 00-0236	EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 480 Y / 277 Volt, 480 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	68,981.13	3,726.89
<b>26 22 13 00-0237</b>		<b>Primary 4.16 / 4.8 KV, Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 95 BIL</b> <small>(26 22 13 00-0210)</small> Note: Rated to 5 KVA.		
26 22 13 00-0238	EA	45 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	19,375.96	1,863.45
26 22 13 00-0239	EA	75 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	21,701.28	1,863.45
26 22 13 00-0240	EA	112.5 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	22,282.61	1,863.45
26 22 13 00-0241	EA	150 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	22,863.94	1,863.45
26 22 13 00-0242	EA	225 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	27,021.91	2,795.18
26 22 13 00-0243	EA	300 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	29,347.24	2,795.18
26 22 13 00-0244	EA	500 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	42,136.52	2,795.18
26 22 13 00-0245	EA	750 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	54,447.85	3,726.89
26 22 13 00-0246	EA	1,000 KVA, Primary 4.16 / 4.8 KV Ground Y / 7.2 - 14.4 KV, Secondary 208 Y / 120 Volt, 3 Phase, Oil Transformer, Pad Mounted.....	68,981.13	3,726.89
<b>26 22 13 00-0247</b>		<b>Primary 5 KV Or 15 KV, Secondary 277/480 Volt</b> <small>(26 22 13 00-0209)</small> Note: 4-2.5 Percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0248	EA	150 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	65,734.89	2,449.08
26 22 13 00-0249	EA	225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	71,730.16	2,891.18
26 22 13 00-0250	EA	300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	80,447.23	3,533.67
26 22 13 00-0251	EA	500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	95,901.15	3,975.78
26 22 13 00-0252	EA	750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	118,141.74	4,184.90
26 22 13 00-0253	EA	1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	142,504.37	6,114.74
26 22 13 00-0254	EA	1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	167,820.55	6,917.85
26 22 13 00-0255	EA	2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	210,318.01	7,951.55
26 22 13 00-0256	EA	2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	232,852.18	8,349.12
26 22 13 00-0257	EA	3,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	245,433.06	9,303.63
26 22 13 00-0258	EA	3,750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Oil Filled, 3 Phase.....	282,405.13	9,939.75
<b>26 22 13 00-0259</b>		<b>Pad Mounted Transformer 15 KV - 480 Volt, Oil Filled</b> <small>(26 22 13 00-0209)</small>		
26 22 13 00-0260	EA	1,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	122,542.40	6,920.39
26 22 13 00-0261	EA	2,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	150,920.16	7,958.48
26 22 13 00-0262	EA	2,500 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	171,760.99	8,377.29
26 22 13 00-0263	EA	3,000 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	182,324.54	9,362.89
26 22 13 00-0264	EA	3,750 KVA Pad Mounted Transformer, 15 KV - 480 Volt, Oil Filled.....	204,605.48	9,646.60
<b>26 22 13 00-0265</b>		<b>Silicone Filled Distribution Transformers, 3 Phase</b> <small>(26 22 13 00-0209)</small> Note: Primary 5 KV or 15 KV, secondary 277/480 V, 4-2.5 percent taps FCAN and FCBN. Pad mounted.		
26 22 13 00-0266	EA	225 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	114,091.14	2,891.18
26 22 13 00-0267	EA	300 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	122,296.50	3,533.67
26 22 13 00-0268	EA	500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	143,355.52	3,975.78
26 22 13 00-0269	EA	750 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	174,003.75	4,184.90
26 22 13 00-0270	EA	1,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	208,096.57	6,114.74
26 22 13 00-0271	EA	1,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	265,028.00	6,917.85
26 22 13 00-0272	EA	2,000 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	322,608.84	7,951.55
26 22 13 00-0273	EA	2,500 KVA Transformer Primary 5 KV Or 15 KV, Secondary 277/480 Volt, 4 Taps, Silicon Filled, 3 Phase.....	369,370.03	8,349.12
<b>26 22 13 00-0274</b>		<b>Foam Core Poly Transformer Pads</b> <small>(26 22 13)</small>		
26 22 13 00-0275	EA	Single Phase Foam Core Poly Pads..... Note: Excludes site prep.	451.36	51.23
<b>26 24</b>		<b>Switchboards and Panelboards</b> <small>(26 20)</small>		
<b>26 24 13</b>		<b>Switchboards</b> <small>(26 24)</small> Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.		
26 24 13 00-0001		Fusible Switch Type 240 Volt, 3 Phase, 3 Wire <small>(26 24 13)</small>		



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0002			<b>Incoming Service Section Main Device Only</b> (26 24 13 00-0001) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0003	EA		400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	4,713.20	1,345.48
26 24 13 00-0004	EA		600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	5,184.61	1,423.15
26 24 13 00-0005	EA		800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	8,027.81	1,614.36
26 24 13 00-0006	EA		1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	8,643.44	1,730.65
26 24 13 00-0007	EA		1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	13,398.76	1,845.24
26 24 13 00-0008	EA		2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	14,890.58	1,961.99
26 24 13 00-0009	EA		400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	5,563.15	1,345.48
26 24 13 00-0010	EA		600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	6,975.88	1,423.15
26 24 13 00-0011	EA		800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	9,536.33	1,615.74
26 24 13 00-0012	EA		1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	12,803.53	1,730.65
26 24 13 00-0013	EA		1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	13,398.76	1,847.09
26 24 13 00-0014	EA		2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	14,890.58	1,961.99
26 24 13 00-0015	EA		2,500 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	17,738.00	2,051.21
26 24 13 00-0016	EA		3,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	20,053.34	2,197.49
26 24 13 00-0017	EA		4,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker.....	23,552.25	2,368.85
26 24 13 00-0018	EA		400 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,341.93	1,192.12
26 24 13 00-0019	EA		600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	3,664.37	1,269.18
26 24 13 00-0020	EA		800 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,201.13	1,461.00
26 24 13 00-0021	EA		1,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,507.09	1,522.38
26 24 13 00-0022	EA		1,200 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,774.39	1,577.28
26 24 13 00-0023	EA		1,600 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,211.09	1,691.11
26 24 13 00-0024	EA		2,000 Amperes, 240 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,629.47	1,807.09
26 24 13 00-0025			<b>Branch Breaker Units</b> (26 24 13 00-0001) Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026	EA		15 To 60 Amperes, 240 Volt, MC Branch Breaker .....	369.67	46.91
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	28.15	
26 24 13 00-0027	EA		70 To 100 Amperes, 240 Volt, MC Branch Breaker .....	544.20	73.84
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	44.30	
26 24 13 00-0028	EA		125 To 225 Amperes, 240 Volt, MC Branch Breaker .....	1,429.45	134.59
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	80.75	
26 24 13 00-0029	EA		100 To 400 Amperes, 240 Volt, MC Branch Breaker .....	2,505.75	175.36
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	105.21	
26 24 13 00-0030	EA		300 To 600 Amperes, 240 Volt, MC Branch Breaker .....	4,523.10	430.70
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	258.38	
26 24 13 00-0031	EA		400 To 800 Amperes, 240 Volt, MC Branch Breaker .....	7,110.87	430.70
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	258.38	
26 24 13 00-0032	EA		600 To 1,200 Amperes, 240 Volt, MC Branch Breaker .....	11,563.84	767.57
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	460.55	
26 24 13 00-0033			<b>Fusible Switch Type 480 Volt, 3 Phase, 3 Wire</b> (26 24 13)		
26 24 13 00-0034			<b>Incoming Service Section Main Device Only</b> (26 24 13 00-0033) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035	EA		400 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	6,641.39	1,745.88
26 24 13 00-0036	EA		600 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	7,372.75	1,745.88
26 24 13 00-0037	EA		800 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	10,558.59	2,268.87
26 24 13 00-0038	EA		1,200 Amperes, 480 Volt, 3 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	11,899.24	2,268.87
26 24 13 00-0039			<b>Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire</b> (26 24 13)		
26 24 13 00-0040			<b>Incoming Service Section Main Device Only</b> (26 24 13 00-0039) Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041	EA		200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	4,232.25	1,192.12
26 24 13 00-0042	EA		600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	4,683.01	1,269.18
26 24 13 00-0043	EA		800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	6,930.51	1,461.00
26 24 13 00-0044	EA		1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Switch .....	7,524.22	1,576.06
26 24 13 00-0045	EA		200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	5,039.10	1,192.12
26 24 13 00-0046	EA		600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	6,244.98	1,269.18
26 24 13 00-0047	EA		800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	8,606.27	1,461.00
26 24 13 00-0048	EA		1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	12,094.63	1,576.06
26 24 13 00-0049	EA		2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With MC Main Breaker.....	14,157.79	1,768.95
26 24 13 00-0050	EA		200/400 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,066.01	1,038.14
26 24 13 00-0051	EA		600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	3,411.55	1,115.36
26 24 13 00-0052	EA		800 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,003.80	1,307.18
26 24 13 00-0053	EA		1,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,290.38	1,368.55
26 24 13 00-0054	EA		1,200 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,565.30	1,423.15
26 24 13 00-0055	EA		1,600 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	4,942.92	1,522.38
26 24 13 00-0056	EA		2,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	5,309.74	1,614.36
26 24 13 00-0057	EA		2,500 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	6,588.45	1,999.68
26 24 13 00-0058	EA		3,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	7,351.92	2,191.95
26 24 13 00-0059	EA		4,000 Amperes, 120/240 Volt, 1 Phase, 3 Wire, Distribution Switchboard With Main Lug.....	8,542.10	2,365.01





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 13 00-0060</b> <b>Branch Breaker Units</b> <small>(26 24 13 00-0039)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061    EA    15 To 60 Amperes, 120 / 240 Volt, MC Branch Breaker .....	206.68	40.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	24.46	
26 24 13 00-0062    EA    70 To 100 Amperes, 120 / 240 Volt, MC Branch Breaker .....	329.84	67.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	40.61	
26 24 13 00-0063    EA    125 To 225 Amperes, 120 / 240 Volt, MC Branch Breaker .....	947.77	94.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	56.76	
26 24 13 00-0064    EA    100 To 400 Amperes, 120 / 240 Volt, MC Branch Breaker .....	2,648.05	121.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	72.91	
26 24 13 00-0065    EA    300 To 600 Amperes, 120/240 Volt, MC Branch Breaker .....	4,224.69	296.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	177.65	
26 24 13 00-0066    EA    400 To 800 Amperes, 120/240 Volt, MC Branch Breaker .....	5,941.83	296.11
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	177.65	
26 24 13 00-0067    EA    600 To 1,200 Amperes, 120/240 Volt, MC Branch Breaker .....	9,837.07	565.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	339.21	
<b>26 24 13 00-0068</b> <b>Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0069</b> <b>Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0068)</small>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070    EA    400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	4,715.08	1,345.48
26 24 13 00-0071    EA    600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	5,182.50	1,423.15
26 24 13 00-0072    EA    800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	8,025.09	1,614.36
26 24 13 00-0073    EA    1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	8,640.32	1,730.65
26 24 13 00-0074    EA    1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	13,391.67	1,845.24
26 24 13 00-0075    EA    2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	14,890.58	1,961.99
26 24 13 00-0076    EA    400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	5,565.03	1,345.48
26 24 13 00-0077    EA    600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	6,973.77	1,423.15
26 24 13 00-0078    EA    800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	9,536.33	1,615.74
26 24 13 00-0079    EA    1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	12,800.41	1,730.65
26 24 13 00-0080    EA    1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	13,395.21	1,847.09
26 24 13 00-0081    EA    2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	14,890.58	1,961.99
26 24 13 00-0082    EA    400 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	3,475.40	1,192.12
26 24 13 00-0083    EA    600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	3,853.75	1,269.18
26 24 13 00-0084    EA    800 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	4,484.11	1,461.00
26 24 13 00-0085    EA    1,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	4,799.82	1,522.38
26 24 13 00-0086    EA    1,200 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	5,102.82	1,577.28
26 24 13 00-0087    EA    1,600 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	5,528.60	1,691.11
26 24 13 00-0088    EA    2,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	5,960.63	1,807.09
26 24 13 00-0089    EA    2,500 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	7,030.09	2,053.52
26 24 13 00-0090    EA    3,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	7,740.47	2,197.34
26 24 13 00-0091    EA    4,000 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	9,022.67	2,361.16
<b>26 24 13 00-0092</b> <b>Branch Breaker Units</b> <small>(26 24 13 00-0068)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093    EA    15 To 60 Amperes, 120/208 Volt, MC Branch Breaker .....	369.67	46.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	28.15	
26 24 13 00-0094    EA    70 To 100 Amperes, 120/208 Volt, MC Branch Breaker .....	544.20	73.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	44.30	
26 24 13 00-0095    EA    125 To 225 Amperes, 120/208 Volt, MC Branch Breaker .....	1,429.45	134.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	80.75	
26 24 13 00-0096    EA    100 To 400 Amperes, 120/208 Volt, MC Branch Breaker .....	2,505.75	175.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	105.21	
26 24 13 00-0097    EA    300 To 600 Amperes, 120/208 Volt, MC Branch Breaker .....	4,523.10	430.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	258.38	
26 24 13 00-0098    EA    400 To 800 Amperes, 120/208 Volt, MC Branch Breaker .....	7,110.87	430.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	258.38	
26 24 13 00-0099    EA    600 To 1,200 Amperes, 120/208 Volt, MC Branch Breaker .....	11,563.84	767.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	460.55	
<b>26 24 13 00-0100</b> <b>Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0101</b> <b>Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0100)</small>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102    EA    400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	6,162.80	1,845.24
26 24 13 00-0103    EA    600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	6,732.46	1,961.99
26 24 13 00-0104    EA    800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	9,274.41	2,189.96
26 24 13 00-0105    EA    1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Switch .....	10,113.48	2,344.85
26 24 13 00-0106    EA    400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	7,605.82	1,845.24
26 24 13 00-0107    EA    600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	9,966.74	1,961.99
26 24 13 00-0108    EA    800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	11,277.56	2,192.41
26 24 13 00-0109    EA    1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	14,028.76	2,344.85
26 24 13 00-0110    EA    1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	14,701.83	2,500.37
26 24 13 00-0111    EA    2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With MC Main Breaker .....	16,278.09	2,655.73
26 24 13 00-0112    EA    400 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	3,475.40	1,192.12
26 24 13 00-0113    EA    600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	3,853.75	1,269.18
26 24 13 00-0114    EA    800 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug .....	4,484.11	1,461.00

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards and Panelboards</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0115 EA 1,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	4,799.82	1,522.38
26 24 13 00-0116 EA 1,200 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,102.82	1,577.28
26 24 13 00-0117 EA 1,600 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,528.60	1,691.11
26 24 13 00-0118 EA 2,000 Amperes, 480/277 Volt, 3 Phase, 4 Wire, Distribution Switchboard With Main Lug.....	5,960.63	1,807.09
<b>26 24 13 00-0119 Branch Breaker Units</b> <small>(26 24 13 00-0100)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120 EA 15 To 60 Amperes, 480/277 Volt, MC Branch Breaker.....	740.34	46.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	28.15	
26 24 13 00-0121 EA 70 To 100 Amperes, 480/277 Volt, MC Branch Breaker.....	863.14	73.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	44.30	
26 24 13 00-0122 EA 125 To 225 Amperes, 480/277 Volt, MC Branch Breaker.....	1,565.65	134.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	80.75	
26 24 13 00-0123 EA 100 To 400 Amperes, 480/277 Volt, MC Branch Breaker.....	2,505.75	175.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	105.21	
26 24 13 00-0124 EA 300 To 600 Amperes, 480/277 Volt, MC Branch Breaker.....	6,009.22	430.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	258.38	
26 24 13 00-0125 EA 400 To 800 Amperes, 480/277 Volt, MC Branch Breaker.....	6,141.97	430.70
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	258.38	
26 24 13 00-0126 EA 600 To 1,200 Amperes, 480/277 Volt, MC Branch Breaker.....	9,893.26	767.57
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	460.55	
<b>26 24 13 00-0127 Fusible Branch Circuit Switch</b> <small>(26 24 13)</small>		
Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		
<b>26 24 13 00-0128 240 Volt, 2 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0129 EA 30/30 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	798.65	120.75
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0130 EA 30/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	796.07	120.75
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0131 EA 60/60 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	796.07	120.75
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0132 EA 60/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	1,234.42	159.21
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0133 EA 100/100 Amperes, 240 Volt, 2 Pole Twin Branch Switch Unit.....	1,234.42	159.21
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
<b>26 24 13 00-0134 240 Volt, 2 Pole Single Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0135 EA 100 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	903.83	118.45
<i>For Electrical Interlock Kit, Add</i>		
	288.73	
26 24 13 00-0136 EA 200 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	1,291.00	118.45
<i>For Electrical Interlock Kit, Add</i>		
	288.73	
26 24 13 00-0137 EA 400 Amperes, 240 Volt, 2 Pole Single Branch Switch Unit.....	3,325.58	319.18
<b>26 24 13 00-0138 240 Volt, 3 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0139 EA 30/30 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,014.20	136.13
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0140 EA 30/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,011.62	136.13
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0141 EA 60/60 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,011.62	136.13
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0142 EA 60/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,512.67	182.28
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0143 EA 100/100 Amperes, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,512.67	182.28
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
<b>26 24 13 00-0144 240 Volt, 3 Pole Single Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0145 EA 100 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	1,089.90	133.82
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0146 EA 200 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	1,721.05	133.82
<i>For Electrical Interlock Kit, Add</i>		
	288.73	
26 24 13 00-0147 EA 400 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	4,419.30	357.32
26 24 13 00-0148 EA 600 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	6,284.96	457.77
26 24 13 00-0149 EA 800 Amperes, 240 Volt, 3 Pole Single Branch Switch Unit.....	11,583.24	620.21
<b>26 24 13 00-0150 600 Volt, 3 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0151 EA 30/30 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,405.04	136.13
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0152 EA 30/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,402.42	136.13
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0153 EA 60/60 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,405.04	136.13
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0154 EA 60/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	2,102.38	182.28
<i>For Electrical Interlock Kit, Add</i>		
	301.39	
26 24 13 00-0155 EA 100/100 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit.....	2,146.03	182.28
<i>For Electrical Interlock Kit, Add</i>		
	301.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0156 EA 200/200 Amperes, 600 Volt, 3 Pole Twin Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	4,495.34 301.39	238.43
<b>26 24 13 00-0157 600 Volt, 3 Pole, Single Branch Switch Units (26 24 13 00-0127)</b>		
26 24 13 00-0158 EA 100 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	1,510.84 301.39	133.82
26 24 13 00-0159 EA 200 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	2,255.45 288.73	133.82
26 24 13 00-0160 EA 400 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit ..... <i>For Electrical Interlock Kit, Add</i>	5,503.30 288.73	357.32
26 24 13 00-0161 EA 600 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit .....	6,695.26	457.77
26 24 13 00-0162 EA 800 Amperes, 600 Volt, 3 Pole Single Branch Switch Unit .....	11,583.24	620.21
<b>26 24 13 00-0163 Service And Distribution Structures (26 24 13)</b>		
<b>26 24 13 00-0164 Distribution Section 600 Volt, 250 Volt DC (26 24 13 00-0163)</b>		
<b>26 24 13 00-0165 600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0166 EA 14 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,363.68	1,415.16
26 24 13 00-0167 EA 24 To 30 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,961.17	1,415.16
26 24 13 00-0168 EA 34 To 38 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,412.44	1,799.71
26 24 13 00-0169 EA 42 To 48 Watt Distribution Section, 600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,909.37	1,799.71
<b>26 24 13 00-0170 800 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	3,815.91	1,638.20
26 24 13 00-0172 EA 24 To 30 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,393.75	1,638.20
26 24 13 00-0173 EA 34 To 38 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,909.37	2,030.44
26 24 13 00-0174 EA 42 To 48 Watt Distribution Section, 800 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,355.79	2,030.44
<b>26 24 13 00-0175 1,200 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	4,515.86	1,999.68
26 24 13 00-0177 EA 24 To 30 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,110.48	1,999.68
26 24 13 00-0178 EA 34 To 38 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,661.00	2,461.14
26 24 13 00-0179 EA 42 To 48 Watt Distribution Section, 1,200 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	6,315.00	2,461.14
<b>26 24 13 00-0180 1,600 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,426.28	2,191.95
26 24 13 00-0182 EA 24 To 30 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	6,155.37	2,191.95
26 24 13 00-0183 EA 34 To 38 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	6,815.49	2,707.26
26 24 13 00-0184 EA 42 To 48 Watt Distribution Section, 1,600 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	7,385.21	2,707.26
<b>26 24 13 00-0185 2,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	5,711.46	2,199.65
26 24 13 00-0187 EA 24 To 30 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	6,507.52	2,476.53
26 24 13 00-0188 EA 34 To 38 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	6,618.29	2,476.53
26 24 13 00-0189 EA 42 To 48 Watt Distribution Section, 2,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	6,920.14	2,614.96
<b>26 24 13 00-0190 3,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0191 EA 24 To 30 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	7,560.73	2,476.53
26 24 13 00-0192 EA 34 To 38 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	7,669.85	2,476.53
26 24 13 00-0193 EA 42 To 48 Watt Distribution Section, 3,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	7,971.70	2,614.96
<b>26 24 13 00-0194 4,000 Amperes, 4 Wire, Main Bus (26 24 13 00-0164)</b>		
26 24 13 00-0195 EA 24 To 30 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	7,757.93	2,614.96
26 24 13 00-0196 EA 34 To 38 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	7,971.70	2,614.96
26 24 13 00-0197 EA 42 To 48 Watt Distribution Section, 4,000 Amperes, 4 Wire, 600 Volt AC, 250 Volt DC, Main Bus .....	8,080.70	2,614.96
<b>26 24 13 00-0198 Pull Boy, Horizontal Mounted Across Top Of Switch Board (26 24 13 00-0164)</b>		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard .....	656.88	184.58
26 24 13 00-0200 EA Drilled Bottom For Pull Boy .....	741.92	184.58
26 24 13 00-0201 EA Cable Supports In Pull Box .....	250.80	46.15
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.64	
<b>26 24 13 00-0202 Underground Pull Sections (26 24 13 00-0164)</b>		
Note: Excludes no bus or terminal.		
26 24 13 00-0203 EA 12 To 20" Wide, 15 - 20" Deep, Underground Pull Section Without Bus Or Terminal .....	652.64	215.35
26 24 13 00-0204 EA 24 To 28" Wide, 20" Deep, Underground Pull Section Without Bus Or Terminal .....	1,094.67	276.88
26 24 13 00-0205 EA 24 To 28" Wide, 30" Deep, Underground Pull Section Without Bus Or Terminal .....	1,094.67	276.88
26 24 13 00-0206 EA 14 To 20" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal .....	832.42	215.35
26 24 13 00-0207 EA 28 To 30" Wide, 36" Deep, Underground Pull Section Without Bus Or Terminal .....	1,168.93	315.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0208 EA 14 To 20" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,343.17	315.33
26 24 13 00-0209 EA 26 To 30" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,419.54	407.63
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep, Underground Pull Section Without Bus Or Terminal.....	1,512.61	407.63
<b>26 24 13 00-0211 Switchboard Sections</b> <small>(26 24 13 00-0163)</small>		
26 24 13 00-0212 EA 600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,095.27	1,281.80
26 24 13 00-0213 EA 800 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	5,575.03	1,393.31
26 24 13 00-0214 EA 1,200 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,009.50	1,780.33
26 24 13 00-0215 EA 1,600 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	7,663.42	1,942.15
26 24 13 00-0216 EA 2,000 Amperes, 480 Volt, 4 Wire, Switchboard Incoming No Switch Circuit.....	8,170.84	2,067.52
26 24 13 00-0217 EA 400 Amperes, 480 Volt, Switchboard Incoming For Switch Circuit Section .....	5,844.43	1,124.43
26 24 13 00-0218 EA 200 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,559.96	1,068.13
26 24 13 00-0219 EA 400 Amperes, Distribution Section Subfeeder Lug-Rated.....	3,930.93	1,158.28
26 24 13 00-0220 EA 120/208 Or 277/480 Volt, 4 Wire, Distribution Section Aluminum Bus.....	8,377.91	1,281.80
26 24 13 00-0221 EA 800 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker .....	9,019.50	1,285.18
26 24 13 00-0222 EA 1,000 Amperes, Switchboard Distribution Section Aluminum Bus Less Breaker .....	9,913.37	1,434.84
26 24 13 00-0223 EA 15 To 60 Amperes, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	209.40	76.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>46.97</i>	
26 24 13 00-0224 EA 70 To 100 Amperes, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	253.94	78.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>55.49</i>	
26 24 13 00-0225 EA 70 To 225 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame .....	1,051.57	92.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>119.55</i>	
26 24 13 00-0226 EA 125 To 400 Amperes, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame .....	1,714.30	199.20
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>166.47</i>	
26 24 13 00-0227 EA 100 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker .....	709.36	277.49
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>96.14</i>	
26 24 13 00-0228 EA 225 Amperes, 240 Volt HIC, 3 Phase, Switchboard Feed Section Branch Circuit Breaker .....	1,866.10	160.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>119.55</i>	
<b>26 24 13 00-0229 Switchboard, Structure Per Section Copper, 480 Volt</b> <small>(26 24 13 00-0163)</small>		
26 24 13 00-0230 EA 225 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	2,643.06	667.58
26 24 13 00-0231 EA 400 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	3,734.22	902.77
26 24 13 00-0232 EA 600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	4,235.92	1,098.75
26 24 13 00-0233 EA 800 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	5,424.71	1,538.21
26 24 13 00-0234 EA 1,200 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	6,731.20	1,922.77
26 24 13 00-0235 EA 1,600 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	7,312.44	1,922.77
26 24 13 00-0236 EA 2,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	9,130.29	2,563.74
26 24 13 00-0237 EA 2,500 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	10,244.80	2,563.74
26 24 13 00-0238 EA 3,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	12,067.27	3,051.97
26 24 13 00-0239 EA 4,000 Amperes, 480 Volt, Copper, Structure Per Section, Switchboard .....	14,118.07	3,051.97
<b>26 24 13 00-0240 Main Devices</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0241 Power Circuit Breakers</b> <small>(26 24 13 00-0240)</small>		
<b>26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector</b> <small>(26 24 13 00-0241)</small>		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243 EA 50 To 800 Amperes, DSL-206, Main Breaker With Current Limiter, Amptector Static Trip .....	8,881.33	1,615.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>967.03</i>	
26 24 13 00-0244 EA 50 To 1,600 Amperes, DSL-416, Main Breaker With Current Limiter, Amptector Static Trip .....	16,070.86	2,691.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,613.51</i>	
26 24 13 00-0245 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker With Current Limiter, Amptector Static Trip .....	35,348.81	4,522.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>2,689.19</i>	
26 24 13 00-0246 EA 4,000 Amperes, DSL-840, Main Breaker With Current Limiter, Amptector Static Trip .....	57,070.02	7,321.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4,471.56</i>	
26 24 13 00-0247 EA Ground-Fault Trip All Power Breakers - Factory Installed.....	2,790.93	
26 24 13 00-0248 EA Key Interlock All Power Breakers - Factory Installed .....	360.44	
26 24 13 00-0249 EA Short Time Delay Selective Trip - Factory Installed .....	472.87	
26 24 13 00-0250 EA Shunt Trip Manually Open Breakers - Factory Installed.....	340.60	
<b>26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector</b> <small>(26 24 13 00-0241)</small>		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252 EA 50 To 800 Amperes, DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip .....	10,304.69	1,692.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,020.04</i>	
26 24 13 00-0253 EA 50 To 1,600 Amperes, DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip .....	18,966.73	2,845.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,699.06</i>	
26 24 13 00-0254 EA 1,200 To 3,200 Amperes, DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip .....	39,538.59	4,691.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>2,827.60</i>	
26 24 13 00-0255 EA 4,000 Amperes, DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip .....	61,387.43	7,691.08
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>4,728.12</i>	
<b>26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated</b> <small>(26 24 13 00-0241)</small>		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 To 800 Amperes, DS-206, Main Breaker With Groundfault, Amptector Static Trip .....	7,174.26	1,476.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>887.43</i>	
26 24 13 00-0258 EA 50 To 1,600 Amperes, DS-416, Main Breaker With Groundfault, Amptector Static Trip.....	12,997.08	2,476.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>1,479.05</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0259 EA 2,000 Amperes, DS-420, Main Breaker With Groundfault, Amptector Static Trip.....	19,507.98	4,153.18
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,465.09	
26 24 13 00-0260 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker With Groundfault, Amptector Static Trip.....	33,534.17	6,691.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,105.56	
26 24 13 00-0261 EA 4,000 Amperes, DS-840, Main Breaker With Groundfault, Amptector Static Trip.....	54,701.52	10,921.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,826.40	
<b>26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated</b> <small>(26 24 13 00-0241)</small>		
<small>Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.</small>		
26 24 13 00-0263 EA 50 To 800 Amperes, DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....	8,284.19	1,415.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	846.41	
26 24 13 00-0264 EA 50 To 1,600 Amperes, DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....	15,309.32	2,368.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,410.35	
26 24 13 00-0265 EA 2,000 Amperes, DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	22,110.21	3,937.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,354.41	
26 24 13 00-0266 EA 1,200 To 3,200 Amperes, DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip .....	36,525.17	6,414.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,924.02	
26 24 13 00-0267 EA 4,000 Amperes, DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	57,491.83	10,998.23
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,554.89	
<b>26 24 13 00-0268 Molded Case Circuit Breakers Conventional</b> <small>(26 24 13 00-0241)</small>		
26 24 13 00-0269 EA 70 To 225 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....	3,375.48	1,292.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	744.30	
26 24 13 00-0270 EA 125 To 400 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....	4,687.66	1,292.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	809.59	
26 24 13 00-0271 EA 300 To 600 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	5,190.19	1,538.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	887.43	
26 24 13 00-0272 EA 400 To 800 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....	6,086.47	1,538.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	961.38	
26 24 13 00-0273 EA 600 To 1,200 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker .....	8,700.26	1,845.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,053.57	
26 24 13 00-0274 EA 1,000 To 2,000 Amperes, 3 Pole, Conventional Molded Case Circuit Breaker.....	13,581.54	1,845.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,165.32	
26 24 13 00-0275 EA Shunt Trip, Factory Installed .....	357.13	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed .....	82.67	
<b>26 24 13 00-0277 Switchboard Branch Breaker 480 Volt</b> <small>(26 24 13 00-0240)</small>		
26 24 13 00-0278 EA 60 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	624.59	111.52
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.88	
26 24 13 00-0279 EA 100 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	745.45	147.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.74	
26 24 13 00-0280 EA 225 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,046.76	222.73
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.68	
26 24 13 00-0281 EA 400 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,697.49	279.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	167.69	
26 24 13 00-0282 EA 600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,284.34	374.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	224.89	
26 24 13 00-0283 EA 800 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,981.39	480.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	288.42	
26 24 13 00-0284 EA 1,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,382.24	732.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	439.49	
26 24 13 00-0285 EA 1,200 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,382.24	732.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	439.49	
26 24 13 00-0286 EA 1,600 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	8,950.49	1,025.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	615.29	
26 24 13 00-0287 EA 2,000 Amperes, 3 Phase, 480 Volt Switchboard Branch Breaker.....	11,305.70	1,538.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	922.93	
<b>26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker</b> <small>(26 24 13 00-0240)</small>		
26 24 13 00-0289 EA 400 Amperes, 277/480 Volt, Main Breaker, Switchboard .....	7,161.41	667.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	400.58	
26 24 13 00-0290 EA 600 Amperes, 277/480 Volt, Main Breaker, Switchboard .....	7,288.33	731.12
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	438.65	
26 24 13 00-0291 EA 800 Amperes, 277/480 Volt, Main Breaker, Switchboard .....	8,023.60	1,098.75
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	659.24	
26 24 13 00-0292 EA 1,200 Amperes, 277/480 Volt, Main Breaker, Switchboard .....	13,542.94	1,538.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	922.93	
26 24 13 00-0293 EA 1,600 Amperes, 277/480 Volt, Main Breaker, Switchboard .....	13,869.64	1,701.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,020.94	
26 24 13 00-0294 EA 2,000 Amperes, 277/480 Volt, Main Breaker, Switchboard .....	18,737.87	3,051.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,831.21	
<b>26 24 13 00-0295 Branch Or Distribution Devices</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers</b> <small>(26 24 13 00-0295)</small>		
<small>Note: Includes certified refurbished circuit breakers.</small>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0297 EA 15 To 60 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	667.84	55.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 24 13 00-0298 EA 70 To 100 Amperes, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	679.54	69.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 24 13 00-0299 EA 125 To 150 Amperes, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	1,603.30	83.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.37	
26 24 13 00-0300 EA 70 To 225 Amperes, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	2,319.92	107.68
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	
26 24 13 00-0301 EA 125 To 400 Amperes, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	3,263.77	132.90
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.60	
26 24 13 00-0302 EA 300 To 600 Amperes, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	4,267.73	155.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	103.83	
26 24 13 00-0303 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker .....	6,491.22	175.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	117.21	
<b>26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers</b> <small>(26 24 13 00-0295)</small>		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 To 60 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	461.45	41.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 24 13 00-0306 EA 70 To 100 Amperes, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	593.66	55.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 24 13 00-0307 EA 125 To 150 Amperes, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	1,592.46	69.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 24 13 00-0308 EA 70 To 225 Amperes, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	2,510.29	76.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.76	
26 24 13 00-0309 EA 125 To 400 Amperes, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	2,660.30	99.98
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66.91	
26 24 13 00-0310 EA 900 To 1,000 Amperes, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker .....	5,997.89	145.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.91	
<b>26 24 13 00-0311 Meter Devices And Instrumentation</b> <small>(26 24 13)</small>		
Note: Factory installed accessories.		
<b>26 24 13 00-0312 Compartments For Instrument Transformers And Metering Devices</b> <small>(26 24 13 00-0311)</small>		
26 24 13 00-0313 EA Compartment For, Up To 800 Amperes, Primary Current Transformer .....	431.54	
26 24 13 00-0314 EA Compartment For, 1,000 To 1,500 Amperes, Primary Current Transformer .....	623.33	
26 24 13 00-0315 EA Compartment For, 2,000 To 6,000 Amperes, Primary Current Transformer .....	734.11	
<b>26 24 13 00-0316 Instruments</b> <small>(26 24 13 00-0311)</small>		
26 24 13 00-0317 EA AC Voltmeter .....	588.61	
26 24 13 00-0318 EA AC Ammeter .....	588.61	
26 24 13 00-0319 EA AC Wattmeter .....	1,572.38	
26 24 13 00-0320 EA Variometer .....	1,775.74	
26 24 13 00-0321 EA Power Factor Meter .....	1,418.61	
26 24 13 00-0322 EA Frequency Meter .....	1,565.76	
26 24 13 00-0323 EA 200 Volt-Amperes Max Potential Transformer .....	529.09	
26 24 13 00-0324 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block .....	1,992.34	
26 24 13 00-0325 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2 .....	3,333.24	
26 24 13 00-0326 EA Weatherproof, Modify Meter .....	3,408.73	
26 24 13 00-0327 EA Control Switch Resistor Type 130 V .....	85.30	
26 24 13 00-0328 EA Metering Instrument: Voltage, Amperes And Watt Hour .....	4,020.73	
<b>26 24 16 Panelboards</b> <small>(26 24)</small>		
<b>26 24 16 00-0001 Branch Circuit Panelboard</b> <small>(26 24 16)</small>		
Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
<b>26 24 16 00-0002 Assembled Lighting And Power Panelboards</b> <small>(26 24 16 00-0001)</small>		
Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
<b>26 24 16 00-0003 120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0004 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers .....	1,427.87	438.39
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0005 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers .....	1,635.54	438.39
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0006 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers .....	1,867.64	607.60
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0007 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers .....	2,099.39	607.60
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0008 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers .....	2,320.08	761.42
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0009 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,546.39	761.42
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0010 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers .....	2,764.32	876.78
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0011 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers .....	3,337.28	1,122.90
<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0012 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,524.40	1,122.90
<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0013 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,702.92	1,284.41
<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0014 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers .....	3,987.84	1,284.41
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0015 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,160.72	1,445.92
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0016 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,423.28	1,445.92
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0017 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers .....	4,590.79	1,599.74
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0018 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	4,845.53	1,599.74
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0019 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers .....	5,087.47	1,768.95
<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0020 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers .....	5,247.98	1,768.95
<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0021 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	5,499.62	1,768.95
<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
<b>26 24 16 00-0022 120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers .....	1,646.64	423.01
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0024 EA 50 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers .....	1,857.64	423.01
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0025 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers .....	2,359.98	722.96
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0026 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers .....	2,670.97	722.96
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0027 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,895.87	884.47
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0028 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers .....	3,131.26	884.47
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0029 EA 100 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,338.65	1,061.37
<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
26 24 16 00-0030 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers .....	4,026.37	1,061.37
<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0031 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,213.84	1,299.79
<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards and Panelboards**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0032 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	4,418.76	1,299.79
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0033 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,644.64	1,461.31
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0034 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,824.96	1,461.31
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0035 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,018.21	1,599.74
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0036 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	5,226.37	1,599.74
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0037 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	5,451.88	1,892.00
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0038 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	5,697.68	1,892.00
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0039 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	5,967.49	1,892.00
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0040 EA 225 Ampere Rating, 120/240 Volt, 3 Wire, 1 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	6,130.63	1,999.68
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
<b>26 24 16 00-0041 120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards</b> <sup>(26 24 16 00-0002)</sup>		
26 24 16 00-0042 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,711.85	499.92
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0043 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	1,932.64	499.92
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0044 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,180.96	669.13
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0045 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,438.72	669.13
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0046 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	2,671.79	822.95
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0047 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	2,921.77	822.95
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0048 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,155.61	976.76
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0049 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,403.84	976.76
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0050 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	3,627.41	1,145.97
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0051 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	3,884.77	1,145.97
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0052 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	4,153.13	1,322.87
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0053 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	4,410.41	1,322.87
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0054 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	4,943.67	1,599.74
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0055	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,131.84 1,978.86 209.06	1,599.74
26 24 16 00-0056	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,428.47 1,978.86 209.06	1,776.64
26 24 16 00-0057	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,707.43 1,978.86 209.06	1,776.64
26 24 16 00-0058	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,896.14 2,059.59 267.20	1,938.15
26 24 16 00-0059	EA		225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,184.92 2,059.59 267.20	1,938.15
26 24 16 00-0060	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,892.52 1,978.86 209.06	1,719.72
26 24 16 00-0061	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,099.73 1,978.86 209.06	1,807.40
26 24 16 00-0062	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,411.47 1,978.86 209.06	1,903.54
26 24 16 00-0063	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,714.16 1,978.86 209.06	2,015.07
26 24 16 00-0064	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,916.86 2,059.59 267.20	2,076.59
26 24 16 00-0065	EA		400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,258.28 2,059.59 267.20	2,203.49
<b>26 24 16 00-0066</b>			<b>120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards</b> <small>(26 24 16 00-0062)</small>		
26 24 16 00-0067	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	1,979.93 1,523.32	484.54
26 24 16 00-0068	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	2,203.86 1,523.32	484.54
26 24 16 00-0069	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	2,464.64 1,523.32	638.36
26 24 16 00-0070	EA		50 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, Up To 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	2,806.31 1,523.32	638.36
26 24 16 00-0071	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,381.38 1,523.32	961.39
26 24 16 00-0072	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	3,607.50 1,523.32	961.39
26 24 16 00-0073	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i>	3,855.70 1,523.32	1,122.90
26 24 16 00-0074	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,066.86 1,675.24 122.41	1,122.90
26 24 16 00-0075	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,343.30 1,675.24 122.41	1,299.79
26 24 16 00-0076	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,540.88 1,675.24 122.41	1,299.79
26 24 16 00-0077	EA		100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,840.41 1,675.24 122.41	1,461.31

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0078 EA 100 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,091.85	1,461.31
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0079 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	5,950.20	1,692.04
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0080 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,223.72	1,784.33
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0081 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	6,345.96	1,784.33
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0082 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	6,656.08	2,015.07
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0083 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	6,863.56	2,015.07
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0084 EA 225 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two- 20 Ampere Breakers.....	7,013.29	2,015.07
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0085 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,930.14	1,853.55
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0086 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	7,231.94	1,961.22
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0087 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,358.96	2,015.07
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0088 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,695.40	2,138.12
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0089 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,902.32	2,199.65
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0090 EA 400 Ampere Rating, 120/208 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	8,107.75	2,276.56
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
<b>26 24 16 00-0091 480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0092 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	1,894.83	492.23
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0093 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,180.95	492.23
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0094 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,453.85	676.81
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0095 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	2,739.91	676.81
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0096 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,004.46	846.02
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0097 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,285.00	846.02
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0098 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	3,579.22	1,022.91
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0099 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	3,846.07	1,022.91
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0100 EA 100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,142.79	1,215.19
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0101	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,428.08 1,675.24 122.41	1,215.19
26 24 16 00-0102	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,687.68 1,675.24 122.41	1,384.39
26 24 16 00-0103	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,968.22 1,675.24 122.41	1,384.39
26 24 16 00-0104	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,582.35 1,978.86 209.06	1,684.35
26 24 16 00-0105	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,862.52 1,978.86 209.06	1,684.35
26 24 16 00-0106	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,163.00 1,978.86 209.06	1,845.86
26 24 16 00-0107	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty- Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,373.22 1,978.86 209.06	1,845.86
26 24 16 00-0108	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,711.35 2,059.59 267.20	2,038.14
26 24 16 00-0109	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,943.07 2,059.59 267.20	2,038.14
<b>26 24 16 00-0110</b>			<b>480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards</b> (26 24 16 00-0002)		
26 24 16 00-0111	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	2,389.36 1,523.32	522.99
26 24 16 00-0112	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	2,668.17 1,523.32	569.14
26 24 16 00-0113	EA		50 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, Up To 50 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	2,950.43 1,523.32	707.57
26 24 16 00-0114	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	3,557.66 1,523.32	861.40
26 24 16 00-0115	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	3,831.03 1,523.32	953.69
26 24 16 00-0116	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Amp Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	4,077.37 1,523.32	1,030.61
26 24 16 00-0117	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i>	4,352.12 1,523.32	1,122.90
26 24 16 00-0118	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,615.31 1,675.24 122.41	1,215.19
26 24 16 00-0119	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,853.37 1,675.24 122.41	1,292.10
26 24 16 00-0120	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,111.11 1,675.24 122.41	1,369.01
26 24 16 00-0121	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,392.66 1,675.24 122.41	1,461.31
26 24 16 00-0122	EA		100 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,703.34 1,675.24 122.41	1,576.67
26 24 16 00-0123	EA		225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	7,050.10 1,978.86 209.06	1,753.57

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0124 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	7,346.69	1,861.24
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0125 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,548.25	1,907.39
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0126 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,885.78	2,030.44
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0127 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	8,110.75	2,107.36
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
26 24 16 00-0128 EA 225 Ampere Rating, 480 Volt, 3 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	8,345.22	2,173.50
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	
<b>26 24 16 00-0129 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0130 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 12 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,275.81	538.38
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0131 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	2,588.34	538.38
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0132 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	2,891.54	715.27
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0133 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	3,197.59	715.27
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0134 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	3,509.43	884.47
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0135 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	3,813.80	884.47
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0136 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	4,123.98	1,061.37
For NEMA 3R Panelboard, Add	1,523.32	
26 24 16 00-0137 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	4,432.64	1,061.37
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0138 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	4,774.38	1,245.95
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0139 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	5,052.76	1,245.95
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0140 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	5,349.64	1,253.65
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0141 EA 100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 32 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	5,668.85	1,253.65
For NEMA 3R Panelboard, Add	1,675.24	
For Door-In-Door (Hinged) Trim Front, Add	122.41	
26 24 16 00-0142 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	6,472.29	1,738.18
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0143 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	6,798.07	1,738.18
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0144 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	7,038.21	1,830.47
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0145 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	7,398.55	1,953.54
For NEMA 3R Panelboard, Add	1,978.86	
For Door-In-Door (Hinged) Trim Front, Add	209.06	
26 24 16 00-0146 EA 225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	7,658.31	1,953.54
For NEMA 3R Panelboard, Add	2,059.59	
For Door-In-Door (Hinged) Trim Front, Add	267.20	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24 16 00-0147	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, Main Lugs, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	8,063.73	2,138.12
				<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
<b>26 24 16 00-0148</b>				<b>277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0002)</small></b>		
	26 24 16 00-0149	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Eight 20 Ampere Breakers.....	2,938.31	661.43
				<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
	26 24 16 00-0150	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Ten 20 Ampere Breakers.....	3,259.38	661.43
				<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
	26 24 16 00-0151	EA		50 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, 50 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Twelve 20 Ampere Breakers.....	3,566.53	876.78
				<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
	26 24 16 00-0152	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Fourteen 20 Ampere Breakers.....	4,255.44	876.78
				<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
	26 24 16 00-0153	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 20 Circuit Capacity Assembled Panelboard With Sixteen 20 Ampere Breakers.....	4,556.89	1,107.51
				<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
	26 24 16 00-0154	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Eighteen 20 Ampere Breakers.....	4,857.78	1,107.51
				<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
	26 24 16 00-0155	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 24 Circuit Capacity Assembled Panelboard With Twenty 20 Ampere Breakers.....	5,147.12	1,269.02
				<i>For NEMA 3R Panelboard, Add</i>	1,523.32	
	26 24 16 00-0156	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Two 20 Ampere Breakers.....	5,411.31	1,269.02
				<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
	26 24 16 00-0157	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Four 20 Ampere Breakers.....	5,695.19	1,445.92
				<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
	26 24 16 00-0158	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Six 20 Ampere Breakers.....	6,002.87	1,445.92
				<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
	26 24 16 00-0159	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Twenty-Eight 20 Ampere Breakers.....	6,261.55	1,599.74
				<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
	26 24 16 00-0160	EA		100 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >50 To 100 Ampere Main Breaker, 30 Circuit Capacity Assembled Panelboard With Thirty 20 Ampere Breakers.....	6,535.15	1,599.74
				<i>For NEMA 3R Panelboard, Add</i>	1,675.24	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
	26 24 16 00-0161	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Two 20 Ampere Breakers.....	8,373.14	1,892.00
				<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
	26 24 16 00-0162	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Four 20 Ampere Breakers.....	8,712.72	1,892.00
				<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
	26 24 16 00-0163	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main 42 Circuit Capacity Assembled Panelboard With Thirty-Six 20 Ampere Breakers.....	8,951.72	2,068.90
				<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
	26 24 16 00-0164	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 42 Circuit Capacity Assembled Panelboard With Thirty-Eight 20 Ampere Breakers.....	9,336.41	2,068.90
				<i>For NEMA 3R Panelboard, Add</i>	1,978.86	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
	26 24 16 00-0165	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty 20 Ampere Breakers.....	9,601.37	2,261.17
				<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
	26 24 16 00-0166	EA		225 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >100 To 225 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	9,876.86	2,261.17
				<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
	26 24 16 00-0167	EA		400 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >225 To 400 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	11,616.38	2,518.06
				<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
	26 24 16 00-0168	EA		600 Ampere Rating, 277/480 Volt, 4 Wire, 3 Phase, >400 To 600 Ampere Main Breaker, 54 Circuit Capacity Assembled Panelboard With Forty-Two 20 Ampere Breakers.....	14,117.61	3,022.59
				<i>For NEMA 3R Panelboard, Add</i>	2,059.59	
				<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 24 16 00-0169		<b>Unassembled Lighting And Power Panelboards</b> <small>(26 24 16 00-0001)</small> Note: Includes the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device). See CSI section 26 28 16 13-0001 for circuit breakers.	
26 24 16 00-0170		<b>240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.	
26 24 16 00-0171		<b>Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small>	
26 24 16 00-0172	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	693.96
26 24 16 00-0173	EA	100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	802.88
26 24 16 00-0174	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,112.60
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	122.41
26 24 16 00-0175	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,288.11
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	209.06
26 24 16 00-0176	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,461.34
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	267.20
26 24 16 00-0177	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,643.00
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	122.41
26 24 16 00-0178	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,787.25
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	209.06
26 24 16 00-0179	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,961.32
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	267.20
26 24 16 00-0180	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	2,203.47
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	122.41
26 24 16 00-0181	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	2,349.47
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	209.06
26 24 16 00-0182	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	2,576.88
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	267.20
26 24 16 00-0183		<b>Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small>	
26 24 16 00-0184	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,037.90
26 24 16 00-0185	EA	100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,183.30
26 24 16 00-0186	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,910.75
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	122.41
26 24 16 00-0187	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	2,130.37
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	209.06
26 24 16 00-0188	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	2,340.51
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	267.20
26 24 16 00-0189	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	3,944.76
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	122.41
26 24 16 00-0190	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	4,209.75
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	209.06
26 24 16 00-0191	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	4,444.08
		<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	267.20
26 24 16 00-0192		<b>Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small>	
26 24 16 00-0193	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,353.24
26 24 16 00-0194	EA	100 Ampere Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,454.63
26 24 16 00-0195	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,748.65
26 24 16 00-0196	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard .....	1,921.02



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0197	EA			225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,082.31	
26 24 16 00-0198	EA			400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,385.79	
26 24 16 00-0199	EA			400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,521.87	
26 24 16 00-0200	EA			400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,688.41	
26 24 16 00-0201	EA			600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,988.33	
26 24 16 00-0202	EA			600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,129.21	
26 24 16 00-0203	EA			600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,344.80	
26 24 16 00-0204				<b>Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small>		
26 24 16 00-0205	EA			100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,689.65	
26 24 16 00-0206	EA			100 Ampere Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,826.88	
26 24 16 00-0207	EA			225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,668.60	
26 24 16 00-0208	EA			225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,873.16	
26 24 16 00-0209	EA			225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,071.99	
26 24 16 00-0210	EA			400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,660.55	
26 24 16 00-0211	EA			400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	4,918.00	
26 24 16 00-0212	EA			400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase, Unassembled Panelboard.....	5,150.45	
26 24 16 00-0213				<b>240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers						
26 24 16 00-0214				<b>Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215	EA			100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	785.73	
26 24 16 00-0216	EA			100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	927.46	
26 24 16 00-0217	EA			100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,050.62	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0218	EA			225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,203.35	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0219	EA			225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,387.52	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0220	EA			225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,540.01	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0221	EA			400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,777.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0222	EA			400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,919.94	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0223	EA			400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,078.95	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0224	EA			600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,352.16	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0225	EA			600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	2,587.85	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0226	EA			600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	3,037.94	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>						
26 24 16 00-0227				<b>Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228	EA			100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,213.24	
26 24 16 00-0229	EA			100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard.....	1,370.87	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0230	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,602.52	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0231	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,343.08	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0232	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,541.48	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0233	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,737.41	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0234	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,747.10	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0235	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,997.36	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0236	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	4,203.28	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
<b>26 24 16 00-0237</b>		<b>Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0238	EA	100 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,445.01	
26 24 16 00-0239	EA	100 Ampere Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,579.20	
26 24 16 00-0240	EA	100 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,694.20	
26 24 16 00-0241	EA	225 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,839.40	
26 24 16 00-0242	EA	225 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,020.43	
26 24 16 00-0243	EA	225 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,160.99	
26 24 16 00-0244	EA	400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,520.68	
26 24 16 00-0245	EA	400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,654.57	
26 24 16 00-0246	EA	400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,806.04	
26 24 16 00-0247	EA	600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,137.02	
26 24 16 00-0248	EA	600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,358.27	
26 24 16 00-0249	EA	600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,808.35	
<b>26 24 16 00-0250</b>		<b>Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251	EA	100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	1,864.99	
26 24 16 00-0252	EA	100 Ampere Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,014.45	
26 24 16 00-0253	EA	100 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	2,241.70	
26 24 16 00-0254	EA	225 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,100.94	
26 24 16 00-0255	EA	225 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,284.27	
26 24 16 00-0256	EA	225 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	3,468.90	
26 24 16 00-0257	EA	400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,121.17	
26 24 16 00-0258	EA	400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,377.96	
26 24 16 00-0259	EA	400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase, Unassembled Panelboard	5,594.92	
<b>26 24 16 00-0260</b>		<b>480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>		
		Note: As manufactured by Square D or equal.		
<b>26 24 16 00-0261</b>		<b>Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262	EA	125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,100.98	
26 24 16 00-0263	EA	125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,216.34	





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0264	EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		1,693.05	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		122.41	
26 24 16 00-0265	EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		1,894.29	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		209.06	
26 24 16 00-0266	EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,069.05	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		267.20	
26 24 16 00-0267	EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,089.94	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		122.41	
26 24 16 00-0268	EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,210.65	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		209.06	
26 24 16 00-0269	EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,406.41	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		267.20	
26 24 16 00-0270	EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,618.61	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		122.41	
26 24 16 00-0271	EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,807.81	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		209.06	
26 24 16 00-0272	EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,072.15	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		267.20	
<b>26 24 16 00-0273</b>	<b>Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>			
26 24 16 00-0274	EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,212.27	
26 24 16 00-0275	EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,281.72	
26 24 16 00-0276	EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,480.22	
26 24 16 00-0277	EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,622.51	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		122.41	
26 24 16 00-0278	EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,923.67	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		209.06	
26 24 16 00-0279	EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,794.96	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		122.41	
26 24 16 00-0280	EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,973.98	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		209.06	
26 24 16 00-0281	EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		4,208.81	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		267.20	
26 24 16 00-0282	EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		4,385.96	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		122.41	
26 24 16 00-0283	EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		4,649.80	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		209.06	
26 24 16 00-0284	EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		4,883.68	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		267.20	
<b>26 24 16 00-0285</b>	<b>Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>			
26 24 16 00-0286	EA 125 Ampere Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		1,737.66	
26 24 16 00-0287	EA 125 Ampere Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		1,853.02	
26 24 16 00-0288	EA 250 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,314.66	
26 24 16 00-0289	EA 250 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,625.15	
26 24 16 00-0290	EA 250 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,787.35	
26 24 16 00-0291	EA 400 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,808.25	
26 24 16 00-0292	EA 400 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		2,910.12	
26 24 16 00-0293	EA 400 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,078.87	
26 24 16 00-0294	EA 600 Ampere Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard		3,353.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0295 EA 600 Ampere Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,527.80	
26 24 16 00-0296 EA 600 Ampere Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,759.38	
<b>26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298 EA 100 Ampere Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,984.57	
26 24 16 00-0299 EA 100 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,054.02	
26 24 16 00-0300 EA 125 Ampere Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,107.48	
26 24 16 00-0301 EA 125 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,244.11	
26 24 16 00-0302 EA 125 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	3,654.53	
26 24 16 00-0303 EA 250 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,513.26	
26 24 16 00-0304 EA 250 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,673.44	
26 24 16 00-0305 EA 250 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	4,881.27	
26 24 16 00-0306 EA 400 Ampere Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,058.42	
26 24 16 00-0307 EA 400 Ampere Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,305.12	
26 24 16 00-0308 EA 400 Ampere Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	5,536.53	
<b>26 24 16 00-0309 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>		
Note: As manufactured by Square D or equal.		
<b>26 24 16 00-0310 Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311 EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,143.68	
26 24 16 00-0312 EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,259.67	
26 24 16 00-0313 EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,461.88	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0314 EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,755.89	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0315 EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	1,958.55	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0316 EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,132.11	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0317 EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,172.83	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0318 EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,313.62	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0319 EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,507.81	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
26 24 16 00-0320 EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,720.10	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	
26 24 16 00-0321 EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	2,910.59	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	209.06	
26 24 16 00-0322 EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Lugs, Unassembled Panelboard	3,176.07	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	267.20	
<b>26 24 16 00-0323 Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324 EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,432.03	
26 24 16 00-0325 EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,502.11	
26 24 16 00-0326 EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard	2,714.52	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	122.41	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0327	EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		2,782.33	
26 24 16 00-0328	EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		2,925.11	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		122.41	
26 24 16 00-0329	EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		3,225.60	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		209.06	
26 24 16 00-0330	EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		4,149.17	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		122.41	
26 24 16 00-0331	EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		4,330.33	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		209.06	
26 24 16 00-0332	EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		4,562.67	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		267.20	
26 24 16 00-0333	EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		4,810.38	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		122.41	
26 24 16 00-0334	EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		5,076.57	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		209.06	
26 24 16 00-0335	EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1, Main Breaker, Unassembled Panelboard		5,310.49	
	<i>For Door-In-Door (Hinged) Trim Front, Add</i>		267.20	
<b>26 24 16 00-0336</b>	<b>Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b>	<small>(26 24 16 00-0309)</small>		
26 24 16 00-0337	EA 125 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		1,780.35	
26 24 16 00-0338	EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		1,896.34	
26 24 16 00-0339	EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		2,089.14	
26 24 16 00-0340	EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		2,377.50	
26 24 16 00-0341	EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		2,689.41	
26 24 16 00-0342	EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		2,850.41	
26 24 16 00-0343	EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		2,893.02	
26 24 16 00-0344	EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		3,013.09	
26 24 16 00-0345	EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		3,180.28	
26 24 16 00-0346	EA 600 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		3,455.35	
26 24 16 00-0347	EA 600 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		3,630.14	
26 24 16 00-0348	EA 600 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Lugs, Unassembled Panelboard		3,861.72	
<b>26 24 16 00-0349</b>	<b>Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b>	<small>(26 24 16 00-0309)</small>		
26 24 16 00-0350	EA 100 Ampere Rating, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		3,053.64	
26 24 16 00-0351	EA 100 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		3,123.72	
26 24 16 00-0352	EA 100 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		3,445.37	
26 24 16 00-0353	EA 125 Ampere Rating, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		3,409.59	
26 24 16 00-0354	EA 125 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		3,546.71	
26 24 16 00-0355	EA 125 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		3,956.46	
26 24 16 00-0356	EA 250 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		4,867.47	
26 24 16 00-0357	EA 250 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		5,029.79	
26 24 16 00-0358	EA 250 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		5,235.14	
26 24 16 00-0359	EA 400 Ampere Rating, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		5,482.84	
26 24 16 00-0360	EA 400 Ampere Rating, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		5,731.46	
26 24 16 00-0361	EA 400 Ampere Rating, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12, Main Breaker, Unassembled Panelboard		5,962.24	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 24 16 00-0362		<b>600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>		
		Note: Square D I-Line or equal.		
26 24 16 00-0363		<b>Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364	EA	400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,089.49	457.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.50	
26 24 16 00-0365	EA	400 Ampere Rating, 45" Breaker Mounted Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,404.17	457.36
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.43	
26 24 16 00-0366	EA	400 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,641.18	457.36
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.43	
26 24 16 00-0367	EA	600 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,137.73	751.11
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	450.67	
26 24 16 00-0368	EA	600 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,321.17	751.11
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	450.67	
26 24 16 00-0369	EA	600 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,522.46	751.11
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	450.67	
26 24 16 00-0370	EA	800 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,907.52	998.48
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	599.06	
26 24 16 00-0371	EA	800 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,085.70	1,001.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	600.89	
26 24 16 00-0372	EA	800 Ampere Rating, 63" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,155.89	998.48
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	599.06	
26 24 16 00-0373	EA	800 Ampere Rating, 99" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,737.86	998.48
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	599.06	
26 24 16 00-0374	EA	1,200 Ampere Rating, 27" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,284.40	1,502.21
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	901.34	
26 24 16 00-0375	EA	1,200 Ampere Rating, 45" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	6,680.49	1,502.21
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	901.34	
26 24 16 00-0376	EA	1,200 Ampere Rating, 63" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,004.34	1,502.21
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	901.34	
26 24 16 00-0377	EA	1,200 Ampere Rating, 99" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,399.63	1,502.21
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	901.34	
26 24 16 00-0378		<b>Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0362)</small>		
26 24 16 00-0379	EA	225 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,810.88	467.20
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	280.30	
26 24 16 00-0380	EA	400 Ampere Rating, 27" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,957.44	529.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	317.95	
26 24 16 00-0381	EA	400 Ampere Rating, 45" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,186.33	529.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	317.95	
26 24 16 00-0382	EA	400 Ampere Rating, 81" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,860.02	529.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	317.95	
26 24 16 00-0383	EA	600 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	7,739.60	868.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	521.20	
26 24 16 00-0384	EA	600 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,119.21	871.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	522.58	
26 24 16 00-0385	EA	600 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	8,429.51	868.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	521.20	
26 24 16 00-0386	EA	800 Ampere Rating, 36" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	9,819.95	1,161.24
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	696.77	
26 24 16 00-0387	EA	800 Ampere Rating, 72" Breaker Mounting Space, 250 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,265.47	1,157.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	694.31	
26 24 16 00-0388	EA	800 Ampere Rating, 72" Breaker Mounting Space, 600 Ampere Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	10,711.89	1,157.16
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	694.31	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Switchboards and Panelboards</b>	<b>26 24</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0389 Residential Lighting And Power Panelboards <small>(26 24 16 00-0001)</small> See CSI section 26 28 16 13-0001 for circuit breakers.		
26 24 16 00-0390 Residential Type Unassembled Load Center <small>(26 24 16 00-0389)</small> Note: Interior box and cover, includes ground bar kit.		
26 24 16 00-0391 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0392 EA 30 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	193.52	76.91
26 24 16 00-0393 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	674.28	307.65
26 24 16 00-0394 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	1,006.03	439.16
26 24 16 00-0395 EA 125 Ampere Rating, 24 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	2,142.43	923.08
26 24 16 00-0396 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	2,338.12	999.84
26 24 16 00-0397 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta.		
26 24 16 00-0398 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....	258.11	84.60
26 24 16 00-0399 EA 125 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....	431.99	92.29
26 24 16 00-0400 Main Lug Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0401 EA 40 Ampere Rating, 2 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	261.75	84.60
26 24 16 00-0402 EA 70 Ampere Rating, 4 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	290.89	92.29
26 24 16 00-0403 EA 100 Ampere Rating, 8 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	1,078.80	439.16
26 24 16 00-0404 EA 150 Ampere Rating, 30 Circuit, Main Lug Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	2,448.85	999.84
26 24 16 00-0405 Main Lug Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0406 EA 60 Ampere Rating, 3 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....	313.47	84.60
26 24 16 00-0407 EA 125 Ampere Rating, 20 Circuit, Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....	2,345.06	923.08
26 24 16 00-0408 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt <small>(26 24 16 00-0390)</small>		
26 24 16 00-0409 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	2,487.27	923.08
26 24 16 00-0410 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	2,698.78	999.84
26 24 16 00-0411 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase, Unassembled Panelboard .....	8,477.79	1,538.21
26 24 16 00-0412 Main Breaker Load Center, 3 Phase, 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 V Delta.		
26 24 16 00-0413 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....	3,406.01	923.08
26 24 16 00-0414 EA 150 Ampere Rating, 40 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....	3,711.63	999.84
26 24 16 00-0415 EA 300 Ampere Rating, 42 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled Panelboard .....	9,250.84	1,538.21
26 24 16 00-0416 Main Breaker Load Center, Single Phase, 3 Wire, 120/240 Volt, Rainproof <small>(26 24 16 00-0390)</small>		
26 24 16 00-0417 EA 125 Ampere Rating, 24 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	2,590.09	923.08
26 24 16 00-0418 EA 150 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled Panelboard .....	2,874.36	999.84
26 24 16 00-0419 Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC <small>(26 24 16 00-0390)</small> Note: 3 Phase, 4 wire, 240/120 Volt AC Delta; 3 phase, 3 wire, 240 Volt AC Delta, Rainproof.		
26 24 16 00-0420 EA 125 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....	3,576.53	923.08
26 24 16 00-0421 EA 155 Ampere Rating, 30 Circuit, Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled Panelboard .....	3,730.14	999.84
26 24 16 00-0422 Residential Type Assembled Load Center <small>(26 24 16 00-0389)</small>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 24 16 00-0423		<b>Main Lug Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase</b> <small>(26 24 16 00-0422)</small>			
		Note: Includes 1 pole plug-in breaker.			
26 24 16 00-0424	EA	100 Ampere Rating, Main Lugs, Indoor 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,006.51		439.16
26 24 16 00-0425	EA	100 Ampere Rating, Main Lugs, Indoor 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,214.26		512.99
26 24 16 00-0426	EA	100 Ampere Rating, Main Lugs, Rainproof, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,023.91		439.16
26 24 16 00-0427	EA	100 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,219.00		512.99
26 24 16 00-0428	EA	200 Ampere Rating, Main Lugs, Indoor, 8 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,737.70		683.73
26 24 16 00-0429	EA	200 Ampere Rating, Main Lugs, Indoor, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,057.31		820.64
26 24 16 00-0430	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,356.90		946.77
26 24 16 00-0431	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,587.69		1,024.91
26 24 16 00-0432	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,875.26		1,538.21
26 24 16 00-0433	EA	200 Ampere Rating, Main Lugs, Rainproof, 16 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,799.39		683.73
26 24 16 00-0434	EA	200 Ampere Rating, Main Lugs, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,115.84		820.64
26 24 16 00-0435	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,415.43		946.77
26 24 16 00-0436	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,643.05		1,024.91
26 24 16 00-0437	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,057.17		1,538.21
26 24 16 00-0438	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,675.82		1,709.11
26 24 16 00-0439	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,865.64		1,709.11
26 24 16 00-0440		<b>Main Lug Load Center, 4 Wire, 20 Amperes, 120/208 Volt</b> <small>(26 24 16 00-0422)</small>			
		Note: Includes 1 pole plug-in breaker.			
26 24 16 00-0441	EA	125 Ampere Rating, Main Lugs, Indoor, 12 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,302.84		512.99
26 24 16 00-0442	EA	125 Ampere Rating, Main Lugs, Indoor, 18 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,944.74		769.11
26 24 16 00-0443	EA	125 Ampere Rating, Main Lugs, Rainproof, 12 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,355.04		512.99
26 24 16 00-0444	EA	125 Ampere Rating, Main Lugs, Rainproof, 18 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,992.20		769.11
26 24 16 00-0445	EA	200 Ampere Rating, Main Lugs, Indoor, 24 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,447.06		946.77
26 24 16 00-0446	EA	200 Ampere Rating, Main Lugs, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,667.88		1,025.53
26 24 16 00-0447	EA	200 Ampere Rating, Main Lugs, Indoor, 36 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,252.85		1,231.04
26 24 16 00-0448	EA	200 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,938.53		1,538.21
26 24 16 00-0449	EA	200 Ampere Rating, Main Lugs, Rainproof, 24 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,502.43		946.77
26 24 16 00-0450	EA	200 Ampere Rating, Main Lugs, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,730.05		1,024.91
26 24 16 00-0451	EA	200 Ampere Rating, Main Lugs, Rainproof, 36 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,464.83		1,230.11
26 24 16 00-0452	EA	200 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,152.08		1,538.21
26 24 16 00-0453	EA	400 Ampere Rating, Main Lugs, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,723.27		1,709.11
26 24 16 00-0454	EA	400 Ampere Rating, Main Lugs, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	4,913.09		1,709.11
26 24 16 00-0455		<b>Main Breaker Load Center, 3 Wire, 20 Amperes, 120/240 Volt, 1 Phase</b> <small>(26 24 16 00-0422)</small>			
		Note: Includes 1 pole plug-in breaker.			
26 24 16 00-0456	EA	125 Ampere Rating, Main Breaker, Indoor, 12 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,296.52		512.99
26 24 16 00-0457	EA	125 Ampere Rating, Main Breaker, Indoor, 18 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	1,922.60		769.11
26 24 16 00-0458	EA	200 Ampere Rating, Main Breaker, Indoor, 20 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,187.03		820.64
26 24 16 00-0459	EA	200 Ampere Rating, Main Breaker, Indoor, 24 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,511.27		947.23
26 24 16 00-0460	EA	200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	2,754.88		1,025.53
26 24 16 00-0461	EA	200 Ampere Rating, Main Breaker, Indoor, 40 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers	3,652.56		1,367.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0462 EA 200 Ampere Rating, Main Breaker, Rainproof, 20 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	2,202.84	820.64
26 24 16 00-0463 EA 200 Ampere Rating, Main Breaker, Rainproof, 24 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	2,541.98	946.77
26 24 16 00-0464 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	2,761.69	1,024.91
26 24 16 00-0465 EA 200 Ampere Rating, Main Breaker, Rainproof, 40 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	3,565.56	1,367.48
26 24 16 00-0466 EA 400 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	6,305.11	1,709.11
26 24 16 00-0467 EA 400 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 3 Wire, 120/240 Volt, 1 Phase, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	6,621.48	1,709.11
<b>26 24 16 00-0468 Main Breaker Load Center, 4 Wire, 20 Amperes, 120/208 Volt</b> <small>(26 24 16 00-0422)</small> Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0469 EA 200 Ampere Rating, Main Breaker, Indoor, 30 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	3,197.80	1,025.53
26 24 16 00-0470 EA 200 Ampere Rating, Main Breaker, Indoor, 42 Circuit, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	4,444.72	1,538.21
26 24 16 00-0471 EA 200 Ampere Rating, Main Breaker, Rainproof, 30 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	3,291.61	1,024.91
26 24 16 00-0472 EA 200 Ampere Rating, Main Breaker, Rainproof, 42 Circuits, 4 Wire, 120/208 Volt, Assembled Panelboard With 20 Ampere, 1 Pole Plug-In Breakers .....	4,539.63	1,538.21
<b>26 24 16 00-0473 Panel Mounted Accessories And Fuseholders</b> <small>(26 24 16 00-0001)</small>		
<b>26 24 16 00-0474 Midget Finger-Safe Fuse Holders</b> <small>(26 24 16 00-0473)</small> Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0475 EA 1 Pole Midget Finger-Safe Fuse Holder .....	90.72	27.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	18.46	
26 24 16 00-0476 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder .....	104.55	27.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	18.46	
26 24 16 00-0477 EA 2 Pole Midget Finger-Safe Fuse Holder .....	144.87	41.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	27.69	
26 24 16 00-0478 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder .....	180.96	41.53
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	27.69	
26 24 16 00-0479 EA 3 Pole Midget Finger-Safe Fuse Holder .....	210.20	55.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	36.92	
26 24 16 00-0480 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder .....	258.14	55.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	36.92	
26 24 16 00-0481 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder .....	298.24	55.38
Note: With indicators. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	36.92	
26 24 16 00-0482 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder .....	245.08	55.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	36.92	
26 24 16 00-0483 EA 4 Pole Midget Finger-Safe Fuse Holder .....	264.50	69.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	46.15	
26 24 16 00-0484 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder .....	317.14	69.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	46.15	
26 24 16 00-0485 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder .....	104.59	27.69
Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	18.46	
26 24 16 00-0486 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder .....	111.94	27.69
Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	18.46	
26 24 16 00-0487 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder .....	105.95	27.69
Note: With indicator. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	18.46	
<b>26 24 16 00-0488 Removal And Reinstallation Of Panelboards</b> <small>(26 24 16 00-0001)</small> Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0489 EA Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers .....	1,929.15	
Note: Includes removal and reinstallation of main wiring to panelboard. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	576.83	
26 24 16 00-0490 EA Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage .....	101.82	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	29.99	
26 24 16 00-0491 EA Panelboard Filler Plate, Fits 1" Opening .....	6.65	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	1.44	
<b>26 24 19 Motor-Control Centers</b> <small>(26 24)</small>		
<b>26 24 19 00-0001 Combination Starters With Molded Case Circuit Breakers</b> <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
<b>26 24 19 00-0002 230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0003 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit .....	2,466.09	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	84.33	
26 24 19 00-0004 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit .....	2,912.12	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	88.55	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0005 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit ..... 4,304.36	4,304.36	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0006 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit ..... 7,759.20	7,759.20	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0007 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit ..... 15,556.60	15,556.60	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0008 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit ..... 26,139.84	26,139.84	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0009 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed non-reversing.		
26 24 19 00-0010 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit ..... 2,466.09	2,466.09	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0011 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit ..... 2,912.12	2,912.12	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0012 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit ..... 4,304.36	4,304.36	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0013 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit ..... 7,759.20	7,759.20	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0014 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit ..... 15,556.60	15,556.60	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0015 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit ..... 26,139.84	26,139.84	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0016 230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0017 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit ..... 3,544.87	3,544.87	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0018 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit ..... 4,706.28	4,706.28	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0019 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit ..... 6,720.19	6,720.19	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0020 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit ..... 11,717.78	11,717.78	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0021 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit ..... 22,996.07	22,996.07	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0022 EA 230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit ..... 39,592.61	39,592.61	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0023 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0024 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit ..... 3,544.87	3,544.87	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0025 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit ..... 4,706.28	4,706.28	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0026 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit ..... 6,720.19	6,720.19	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0027 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit ..... 11,717.78	11,717.78	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0028 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit ..... 22,996.07	22,996.07	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0029 EA 480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit ..... 39,592.61	39,592.61	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0030 230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit ..... 4,337.48	4,337.48	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit ..... 5,933.49	5,933.49	238.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit ..... 8,690.53	8,690.53	253.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit ..... 15,455.21	15,455.21	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit ..... 25,539.21	25,539.21	337.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	
<b>26 24 19 00-0036 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit ..... 4,337.48	4,337.48	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit ..... 5,933.49	5,933.49	238.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit ..... 8,690.53	8,690.53	253.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit ..... 15,455.21	15,455.21	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit ..... 25,539.21	25,539.21	337.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 19 00-0042</b> <b>230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043     EA    230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit .....	4,955.06	140.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.33	
26 24 19 00-0044     EA    230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit .....	7,346.09	147.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.55	
26 24 19 00-0045     EA    230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit .....	10,034.24	154.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.76	
26 24 19 00-0046     EA    230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....	18,800.71	182.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.63	
26 24 19 00-0047     EA    230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....	32,524.55	210.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.50	
<b>26 24 19 00-0048</b> <b>480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049     EA    480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit .....	4,955.06	140.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	84.33	
26 24 19 00-0050     EA    480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit .....	7,346.09	147.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	88.55	
26 24 19 00-0051     EA    480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....	10,034.24	154.61
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	92.76	
26 24 19 00-0052     EA    480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....	18,800.71	182.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.63	
26 24 19 00-0053     EA    480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....	32,524.55	210.82
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	126.50	
<b>26 24 19 00-0054</b> <b>230 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0055     EA    230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit .....	7,300.38	147.58
26 24 19 00-0056     EA    230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit .....	11,147.65	161.63
26 24 19 00-0057     EA    230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....	18,748.14	182.72
26 24 19 00-0058     EA    230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....	28,968.23	210.82
26 24 19 00-0059     EA    230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....	49,521.06	281.10
<b>26 24 19 00-0060</b> <b>480 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0061     EA    480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit .....	7,300.38	147.58
26 24 19 00-0062     EA    480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....	11,147.65	161.63
26 24 19 00-0063     EA    480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....	18,748.14	182.72
26 24 19 00-0064     EA    480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....	28,968.23	210.82
26 24 19 00-0065     EA    480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit .....	49,521.06	281.10
<b>26 24 19 00-0066</b> <b>230 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0067     EA    230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit .....	5,043.71	224.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.93	
26 24 19 00-0068     EA    230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit .....	6,501.31	260.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.01	
26 24 19 00-0069     EA    230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit .....	11,352.64	288.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.88	
26 24 19 00-0070     EA    230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit .....	19,284.31	351.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	210.83	
26 24 19 00-0071     EA    230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit .....	26,477.19	449.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	269.87	
<b>26 24 19 00-0072</b> <b>480 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0073     EA    480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit .....	5,043.71	224.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.93	
26 24 19 00-0074     EA    480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit .....	6,501.31	260.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	156.01	
26 24 19 00-0075     EA    480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit .....	11,352.64	288.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.88	
26 24 19 00-0076     EA    480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit .....	19,284.31	351.37
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	210.83	
26 24 19 00-0077     EA    480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit .....	26,477.19	449.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	269.87	
<b>26 24 19 00-0078</b> <b>230 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0079     EA    230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit .....	20,492.02	182.72
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	109.63	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0080	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit .....	21,753.40	224.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0081	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit .....	24,026.94	260.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.01	
26 24 19 00-0082	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit .....	36,329.17	288.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0083	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit .....	49,526.76	351.37
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.83	
26 24 19 00-0084	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit .....	67,198.90	449.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.87	
<b>26 24 19 00-0085</b>		<b>480 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small>		
		Note: Reducing volt, energy saver.		
26 24 19 00-0086	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit .....	20,492.02	182.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0087	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit .....	21,753.40	224.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0088	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit .....	24,026.94	260.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.01	
26 24 19 00-0089	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit .....	36,329.17	288.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0090	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit .....	49,526.76	351.37
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.83	
26 24 19 00-0091	EA	480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit .....	67,198.90	449.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.87	
<b>26 24 19 00-0092</b>		<b>Combination Starters With Current Limiting Circuit Breakers</b> <small>(26 24 19)</small>		
		Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
<b>26 24 19 00-0093</b>		<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
		Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit.....	3,277.46	140.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0095	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit.....	3,723.49	147.58
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0096	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit.....	5,723.69	154.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0097	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	10,499.58	182.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0098	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	18,742.66	210.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0099	EA	230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	30,521.25	281.10
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0100</b>		<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
		Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0101	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	3,277.46	140.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0102	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,723.49	147.58
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0103	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,723.69	154.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0104	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	10,499.58	182.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0105	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	18,742.66	210.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0106	EA	480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	30,521.25	281.10
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0107</b>		<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
		Note: Full volt, 1-speed reversing.		
26 24 19 00-0108	EA	230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit .....	4,349.39	140.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0109	EA	230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit .....	5,501.65	147.58
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0110	EA	230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit .....	8,107.52	154.61
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0111	EA	230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit .....	14,421.59	182.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,118.14 126.50	210.82
<b>26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed reversing.		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,349.39 84.33	140.55
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,501.65 88.55	147.58
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,107.52 92.76	154.61
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,421.59 109.63	182.72
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,118.14 126.50	210.82
<b>26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,128.28 134.93	224.88
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,712.86 143.36	238.94
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,055.00 151.79	253.00
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,127.02 172.88	288.13
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,636.13 202.40	337.33
<b>26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,128.28 134.93	224.88
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,712.86 143.36	238.94
26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,055.00 151.79	253.00
26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,127.02 172.88	288.13
26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,636.13 202.40	337.33
<b>26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0132 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,886.42 126.50	210.82
26 24 19 00-0133 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,266.34 134.93	224.88
26 24 19 00-0134 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,560.52 143.36	238.94
26 24 19 00-0135 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,623.23 164.44	274.08
26 24 19 00-0136 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35,784.67 193.97	323.27
<b>26 24 19 00-0137 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,886.42 126.50	210.82
26 24 19 00-0139 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,266.34 134.93	224.88

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards and Panelboards**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0140	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit	11,560.52	238.94
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0141	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit	21,623.23	274.08
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	164.44	
26 24 19 00-0142	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit	35,784.67	323.27
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	193.97	
<b>26 24 19 00-0143</b>		<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
		Note: Reduced volt, auto-transformer.		
26 24 19 00-0144	EA	230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit	8,068.33	147.58
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0145	EA	230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit	12,957.81	161.63
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.98	
26 24 19 00-0146	EA	230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	21,858.78	182.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0147	EA	230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	33,084.51	210.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0148	EA	230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	54,405.29	281.10
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0149</b>		<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
		Note: Reduced volt, auto-transformer.		
26 24 19 00-0150	EA	480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit	8,068.33	147.58
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0151	EA	480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit	12,957.81	161.63
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.98	
26 24 19 00-0152	EA	480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit	21,858.78	182.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0153	EA	480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit	33,084.51	210.82
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0154	EA	480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit	54,405.29	281.10
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0155</b>		<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
		Note: Reduced volt, part winding.		
26 24 19 00-0156	EA	230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit	5,834.51	224.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0157	EA	230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit	7,276.12	260.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.01	
26 24 19 00-0158	EA	230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit	12,707.97	288.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0159	EA	230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	22,433.80	351.37
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.83	
26 24 19 00-0160	EA	230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	33,064.16	449.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.87	
<b>26 24 19 00-0161</b>		<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
		Note: Reduced volt, part winding.		
26 24 19 00-0162	EA	480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit	5,834.51	224.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0163	EA	480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit	7,276.12	260.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.01	
26 24 19 00-0164	EA	480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit	12,707.97	288.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0165	EA	480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit	22,433.80	351.37
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.83	
26 24 19 00-0166	EA	480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit	33,064.16	449.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.87	
<b>26 24 19 00-0167</b>		<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
		Note: Reduced volt, energy saving		
26 24 19 00-0168	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit	21,147.97	182.72
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0169	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit	22,402.49	224.88
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0170	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit	24,653.18	260.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.01	
26 24 19 00-0171	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit	36,847.99	288.13
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0172	EA	230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit	49,929.02	351.37
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0173 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	69,957.57	449.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.87	
<b>26 24 19 00-0174 480 Volt Combination Starters With Current Limiting Circuit (26 24 19 00-0092)</b>		
Note: Reduced volt, energy saving		
26 24 19 00-0175 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit.....	21,148.03	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.65	
26 24 19 00-0176 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit.....	22,402.49	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0177 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit.....	24,653.18	260.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	156.01	
26 24 19 00-0178 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit.....	36,847.99	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0179 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit.....	49,929.02	351.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.83	
26 24 19 00-0180 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit.....	69,957.57	449.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	269.87	
<b>26 24 19 00-0181 Combination Starters With Fusible Switch (26 24 19)</b>		
Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
<b>26 24 19 00-0182 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)</b>		
Note: 1-Speed non-reversing.		
26 24 19 00-0183 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,200.97	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0184 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	3,014.97	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0185 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	5,040.31	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0186 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,849.41	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0187 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	14,326.97	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0188 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	25,511.31	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0189 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)</b>		
Note: 1-Speed non-reversing.		
26 24 19 00-0190 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	2,200.97	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0191 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	3,014.97	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0192 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	5,040.31	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0193 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	8,849.41	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0194 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	14,326.97	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing.....	25,511.31	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)</b>		
Note: 1-Speed reversing.		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,515.16	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,209.10	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,297.22	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	13,491.37	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	20,724.23	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	35,192.92	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt (26 24 19 00-0181)</b>		
Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	3,515.16	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	5,209.10	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	8,297.22	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	13,491.37	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	20,724.23	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing.....	35,192.92	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	4,145.49	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	5,668.36	238.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	8,861.94	253.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	15,752.33	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	25,038.67	337.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	
<b>26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	4,145.49	224.88
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	134.93	
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	5,668.36	238.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	143.36	
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	8,861.94	253.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.79	
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	15,752.33	288.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88	
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter .....	25,038.67	337.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	202.40	
<b>26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....	4,676.22	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....	7,099.25	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....	10,194.23	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....	20,487.45	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
<b>26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small>		
Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....	4,676.22	140.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.33	
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....	7,099.25	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....	10,194.23	154.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	92.76	
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter .....	20,487.45	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
<b>26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small>		
Note: Auto-transformer.		
26 24 19 00-0233 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	7,051.26	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0234 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	12,402.42	161.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.98	
26 24 19 00-0235 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	20,622.29	182.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.63	
26 24 19 00-0236 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	27,519.19	210.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	126.50	
26 24 19 00-0237 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	46,197.86	281.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
<b>26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small>		
Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	7,051.26	147.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	88.55	
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer.....	12,402.42	161.63
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,622.29 109.63	182.72
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27,519.19 126.50	210.82
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,197.86 168.66	281.10
<b>26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,073.43 134.93	224.88
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,697.87 156.01	260.02
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,602.97 172.88	288.13
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,028.19 210.83	351.37
<b>26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small> Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,073.43 134.93	224.88
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,697.87 156.01	260.02
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,602.97 172.88	288.13
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,028.19 210.83	351.37
<b>26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small> Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,489.73 109.63	182.72
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,753.40 134.93	224.88
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,026.94 156.01	260.02
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,329.17 172.88	288.13
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49,526.76 210.83	351.37
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67,198.90 269.87	449.76
<b>26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> <small>(26 24 19 00-0181)</small> Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,489.73 109.63	182.72
26 24 19 00-0263 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,753.40 134.93	224.88
26 24 19 00-0264 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,026.94 156.01	260.02
26 24 19 00-0265 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36,329.17 172.88	288.13
26 24 19 00-0266 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49,526.76 210.83	351.37
26 24 19 00-0267 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67,198.90 269.87	449.76
<b>26 24 19 00-0268 Starter Accessories</b> <small>(26 24 19)</small> Note: Additional options or accessories for the Combination Starters		
<b>26 24 19 00-0269 Starter Modifications</b> <small>(26 24 19 00-0268)</small>		
26 24 19 00-0270 EA Size 1, 2, 50 VA, 60 Hertz, Standard Control Circuit Transformer .....	187.23	
26 24 19 00-0271 EA Size 3, 4, 150 VA, 60 Hertz, Standard Control Circuit Transformer .....	356.55	
26 24 19 00-0272 EA Size 5, 6, 50 VA, 60 Hertz, Control Circuit Transformer .....	509.68	
26 24 19 00-0273 EA Extra 50 VA, 60 Hertz, Control Circuit Transformer, All Sizes .....	127.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 24 19 00-0274	EA	Extra 100 VA, 60 Hertz, Control Circuit Transformer, All Sizes .....	180.56	
26 24 19 00-0275	EA	Extra 150 VA, 60 Hertz, Control Circuit Transformer, All Sizes .....	303.98	
26 24 19 00-0276	EA	Overload Relay Heater Elements, 3 Per Starter .....	75.42	
26 24 19 00-0277	EA	N.O. Overload Relay Alarm .....	64.00	
26 24 19 00-0278	EA	Control Circuit Fuses, Primary/Secondary .....	202.20	
26 24 19 00-0279	EA	Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton .....	249.99	
26 24 19 00-0280	EA	Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton .....	488.95	
26 24 19 00-0281	EA	Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select .....	249.99	
26 24 19 00-0282	EA	Control Devices Type PB2 Mount On Device, Individual Light Full V .....	286.75	
26 24 19 00-0283	EA	Control Devices Type PB2 Mount On Device, Individual Light Transformer .....	345.58	
26 24 19 00-0284	EA	Control Devices Type PB2 Mount On Device, Individual Light Push To .....	408.07	
26 24 19 00-0285	EA	Blank Devices Panel .....	77.20	
26 24 19 00-0286	EA	Oversize Or Special Color Starter .....	121.32	
26 24 19 00-0287	EA	Mini Voltmeter/Ammeter With Current Transformer .....	1,053.15	
26 24 19 00-0288	EA	Mini Elapsed Time Meters, Non-Resettable .....	953.89	
26 24 19 00-0289	EA	Panel Elapsed Time Meter, Resettable .....	1,433.77	
26 24 19 00-0290	EA	Terminal Blocks, Side Mounted, Press Connection, Plug-In Press .....	121.32	
26 24 19 00-0291	EA	Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw .....	172.79	
26 24 19 00-0292	EA	Terminal Blocks, Front Mounted, Press Connection, Standard .....	121.32	
26 24 19 00-0293	EA	Terminal Blocks, Front Mounted, Press Connection, Plug-In .....	172.79	
26 24 19 00-0294	EA	Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility .....	172.79	
26 24 19 00-0295	EA	Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type .....	249.99	
26 24 19 00-0296	EA	MOR - A Solid State Modular Overload Relay .....	621.30	
26 24 19 00-0297	EA	Heater Module .....	79.21	
26 24 19 00-0298	EA	LAM - Long Acceleration Module .....	492.08	
26 24 19 00-0299	EA	JAM - Jam Protection Module .....	564.09	
26 24 19 00-0300	EA	PUM - Phase Unbalance Module .....	1,070.58	
26 24 19 00-0301	EA	ULM - Underload Module .....	513.69	
26 24 19 00-0302	EA	Wiring To Common Control Circuit Transformer .....	112.82	
26 24 19 00-0303	EA	Handle Operator Separable Source Control Circuit .....	211.24	
26 24 19 00-0304	EA	Type SIS Control Wire .....	88.81	
26 24 19 00-0305	EA	Ring Or Spade Terminals Control .....	112.82	
26 24 19 00-0306	EA	Ring Terminals Power .....	112.82	
26 24 19 00-0307	EA	14 Gauge Control Wire .....	88.81	
26 24 19 00-0308	EA	Wiremakers .....	112.82	
26 24 19 00-0309	EA	Wiring Diagram On Door .....	67.21	
26 24 19 00-0310	EA	Special Color Or Type Control Wire .....	81.61	
26 24 19 00-0311	EA	Current Transformer 12.5 VA .....	640.91	
26 24 19 00-0312	EA	Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4 .....	2,047.54	
26 24 19 00-0313	EA	Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6 .....	2,304.38	

### 26 24 19 00-0314 Control Relays And Special Components (26 24 19 00-0268)

26 24 19 00-0315	EA	600 Volt, 2 Pole, Control Relays .....	578.17	
26 24 19 00-0316	EA	600 Volt, 4 Pole, Control Relays .....	687.32	
26 24 19 00-0317	EA	600 Volt, 6 Pole, Control Relays .....	810.55	
26 24 19 00-0318	EA	600 Volt, 8 Pole, Control Relays .....	904.96	
26 24 19 00-0319	EA	Pneumatic Timer, Control Relays .....	757.04	
26 24 19 00-0320	EA	Motor Driven Timer, Control Relays .....	1,972.72	
26 24 19 00-0321	EA	7 Days Time Switch, Control Relays .....	2,482.94	
26 24 19 00-0322	EA	24 Hour Time Switch, Control Relays .....	696.26	
26 24 19 00-0323	EA	Phase Voltage, Control Relays .....	1,184.37	
26 24 19 00-0324	EA	Two Circuit Alternator, Control Relays .....	1,657.75	
26 24 19 00-0325	EA	Manual 120 Volt, Control Relays .....	162.09	
26 24 19 00-0326	EA	Over-Current Relay, Control Relays .....	4,579.96	
26 24 19 00-0327	EA	UV-Relay, Control Relays .....	3,879.05	
26 24 19 00-0328	EA	Over-Current Relay, Control Relays .....	3,879.05	
26 24 19 00-0329	EA	Teleductor, Control Relays .....	1,221.21	
26 24 19 00-0330	EA	Current Transducer, Control Relays .....	3,284.19	
26 24 19 00-0331	EA	Watt Transducer, Control Relays .....	6,568.38	
26 24 19 00-0332	EA	Control Relays, Blank, Add For Each 1x .....	222.88	
26 24 19 00-0333	EA	Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway .....	333.39	
26 24 19 00-0334	EA	Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway .....	375.76	
26 24 19 00-0335	EA	Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway .....	418.12	
26 24 19 00-0336	EA	Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway .....	375.76	
26 24 19 00-0337	EA	Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway .....	418.12	
26 24 19 00-0338	EA	Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway .....	440.22	

### 26 24 19 00-0339 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)

26 24 19 00-0340	EA	Shunt Trip, Circuit Breaker .....	396.02	
26 24 19 00-0341	EA	Auxiliary Switch, Circuit Breaker .....	136.79	
26 24 19 00-0342	EA	Key Interlock, Circuit Breaker .....	491.99	
26 24 19 00-0343	EA	GFR Ground Fault, Circuit Breaker .....	2,268.02	
26 24 19 00-0344	EA	Seltronic Breaker, Circuit Breaker .....	1,313.82	

### 26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)

26 24 19 00-0346	EA	Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100 .....	2,542.91	91.36
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>54.81</i>	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,416.98 84.33	140.55
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,289.16 54.81	91.36
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,159.56 84.33	140.55
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,938.90 84.33	140.55
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,839.59 109.65	182.72
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,919.07 118.08	196.77
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,450.24 151.73	253.00
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,232.41 231.98	386.51
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,299.25 350.25	583.29
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38,267.65 463.42	773.03
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57,307.05 581.33	969.80
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	95,942.13 675.23	1,124.27
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,068.62 54.81	91.36
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,927.99 84.33	140.55
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,068.62 54.81	91.36
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,927.99 84.33	140.55
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,263.40 54.81	91.36
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,196.28 84.33	140.55
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,953.57 84.33	140.55
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,674.32 84.33	140.55
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,820.67 231.98	386.51
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,820.67 231.98	386.51
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,989.45 252.89	421.65
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,990.09 295.03	491.93
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,990.22 350.25	583.29
<b>26 24 19 00-0372 Incoming Line And Feeder Fusible Switches</b> <small>(26 24 19 00-0268)</small>		
26 24 19 00-0373 EA 30 To 60 Amperes, Incoming Line And Feeder Fusible Switches	1,975.78	140.55
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual	3,029.56	140.55
26 24 19 00-0375 EA 100 Amperes, Incoming Line And Feeder Fusible Switches	4,387.98	175.69
26 24 19 00-0376 EA 200 Amperes, Incoming Line And Feeder Fusible Switches	7,182.53	210.82
26 24 19 00-0377 EA 400 Amperes, Incoming Line And Feeder Fusible Switches	14,250.64	267.05
26 24 19 00-0378 EA 600 Amperes, Incoming Line And Feeder Fusible Switches	20,003.52	351.37
26 24 19 00-0379 EA 800 Amperes, Incoming Line And Feeder Fusible Switches	48,891.48	470.84
26 24 19 00-0380 EA 1,200 Amperes, Incoming Line And Feeder Fusible Switches	55,084.74	653.56
<b>26 24 19 00-0381 Dry Type Distribution Transformers</b> <small>(26 24 19 00-0268)</small>		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers	2,507.26	
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers	2,588.14	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers	2,672.69	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers	3,066.06	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers	3,323.41	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers	2,575.63	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers	4,521.89	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers	5,095.40	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers	11,845.15	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers	6,286.53	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers	8,709.24	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers	13,573.03	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers	12,569.39	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers	17,418.47	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers	12,314.05	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers	17,057.24	
<b>26 24 19 00-0398 Metering Equipment</b> <small>(26 24 19 00-0268)</small>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type .....	1,183.78	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type.....	2,588.14	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel.....	1,066.14	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type.....	2,588.14	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch .....	1,437.45	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits.....	1,525.68	
26 24 19 00-0405 EA Add For Additional Circuits .....	132.02	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter.....	5,338.04	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor .....	5,591.70	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour .....	4,929.96	
26 24 19 00-0409 EA Add For Demand Attachment .....	864.14	
26 24 19 00-0410 EA 800 Amperes, Metering Equipment, Current Transformer .....	1,474.21	
26 24 19 00-0411 EA 1,000 Amperes, Metering Equipment, Current Transformer .....	2,544.02	
26 24 19 00-0412 EA 2,000 Amperes, Metering Equipment, Current Transformer .....	2,963.13	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer .....	2,470.50	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester .....	2,657.99	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System .....	2,033.01	
<b>26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)</b>		
26 24 19 00-0417 EA 600 Amperes, Current Limiting Reactors.....	45,376.99	
26 24 19 00-0418 EA 800 Amperes, Current Limiting Reactors.....	66,082.11	
26 24 19 00-0419 EA 1,000 Amperes, Current Limiting Reactors.....	86,835.02	
26 24 19 00-0420 EA 1,200 Amperes, Current Limiting Reactors.....	132,178.93	
<b>26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)</b>		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw.....	495.96	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp.....	495.96	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw.....	685.67	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp.....	1,254.77	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw.....	685.67	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp.....	875.37	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw.....	875.37	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp.....	1,252.48	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw.....	875.37	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp.....	1,252.48	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw.....	1,065.07	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp.....	3,453.47	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw.....	1,065.07	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp.....	1,252.48	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw.....	3,453.47	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp.....	3,453.47	
26 24 19 00-0438 EA Bus Duct Transition Pull Box .....	1,065.10	
26 24 19 00-0439 EA Throat And Transition To Substation .....	2,056.17	
26 24 19 00-0440 EA Service Entrance Label.....	445.29	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition.....	930.78	
26 24 19 00-0442 EA 600 Amperes, Sub Feed Lugs On Main Bus.....	573.70	
<b>26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)</b>		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width.....	294.04	
26 24 19 00-0445 EA Standard Structure Add For 8" Vertical Wireway In Lieu Of 4" .....	294.04	
26 24 19 00-0446 EA Standard Structure Single Corner Section "L", 16" Depth.....	909.62	
26 24 19 00-0447 EA Standard Structure Single Corner Section "L", 21" Depth.....	1,025.97	
26 24 19 00-0448 EA Standard Structure Unused Space/Future Space.....	87.79	
26 24 19 00-0449 EA Standard Structure NEMA 12 Dustproof.....	236.92	
26 24 19 00-0450 EA Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure .....	49.71	
26 24 19 00-0451 EA Standard Structure 150 Watt Space .....	213.66	
26 24 19 00-0452 EA Standard Structure Thermostat For Space Heater Control.....	698.52	
26 24 19 00-0453 EA Standard Structure Rear Hinged Structure Door, 72" High.....	213.66	
26 24 19 00-0454 EA Standard Structure NEMA 2 Drip Shield On Top Of MCC .....	451.28	
26 24 19 00-0455 EA Standard Structure NEMA 3R N-Walk In Front Mounted.....	6,437.87	
26 24 19 00-0456 EA Standard Structure NEMA 3R N-Walk In Back-to-back.....	7,441.24	
26 24 19 00-0457 EA Standard Structure NEMA 3R Walk-In Aisle Front Mounted.....	7,448.44	
<b>26 24 19 00-0458 Installation Hours For Vertical Sections (26 24 19 00-0268)</b>		
26 24 19 00-0459 EA Install Vertical Section, 230/480 Volt, 1 Section, 600 Amperes .....	843.27	421.65
26 24 19 00-0460 EA Install Vertical Section, 230/480 Volt, 2 Section, 600 Amperes .....	1,264.90	632.48
26 24 19 00-0461 EA Install Vertical Section, 230/480 Volt, 3 Section, 600 Amperes .....	1,405.52	702.76
26 24 19 00-0462 EA Install Vertical Section, 230/480 Volt, 4 Section, 600 Amperes .....	1,686.76	843.31
26 24 19 00-0463 EA Bolt To Floor, Vertical Section, 230/480 Volt, 600 Amperes .....	140.55	70.27
26 24 19 00-0464 EA Install Vertical Section, 230/480 Volt, 1 Section, 800 Amperes .....	843.27	421.65
26 24 19 00-0465 EA Install Vertical Section, 230/480 Volt, 2 Section, 800 Amperes .....	1,264.90	632.48
26 24 19 00-0466 EA Install Vertical Section, 230/480 Volt, 3 Section, 800 Amperes .....	1,405.52	702.76
26 24 19 00-0467 EA Install Vertical Section, 230/480 Volt, 4 Section, 800 Amperes .....	1,686.76	843.31
26 24 19 00-0468 EA Bolt To Floor, Vertical Section, 230/480 Volt, 800 Amperes .....	140.55	70.27
26 24 19 00-0469 EA Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amperes .....	983.88	491.93
26 24 19 00-0470 EA Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amperes .....	1,264.90	632.48



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0471	EA		Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amperes .....	1,686.76	843.31
26 24 19 00-0472	EA		Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amperes .....	1,967.46	983.72
26 24 19 00-0473	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 1,200 Amperes .....	210.82	105.41
26 24 19 00-0474	EA		Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amperes .....	1,124.41	562.21
26 24 19 00-0475	EA		Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amperes .....	1,546.20	773.03
26 24 19 00-0476	EA		Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amperes .....	1,967.46	983.72
26 24 19 00-0477	EA		Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amperes .....	2,248.44	1,124.27
26 24 19 00-0478	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 1,600 Amperes .....	281.10	140.55
26 24 19 00-0479	EA		Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amperes .....	1,124.41	562.21
26 24 19 00-0480	EA		Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amperes .....	1,686.76	843.31
26 24 19 00-0481	EA		Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amperes .....	2,108.04	1,053.99
26 24 19 00-0482	EA		Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amperes .....	2,389.53	1,194.82
26 24 19 00-0483	EA		Bolt To Floor, Vertical Section, 230/480 Volt, 2,000 Amperes .....	281.10	140.55
26 24 19 00-0484			<b>Motor Control Centers (26 24 19)</b>		
26 24 19 00-0485			<b>2.4 KV Motor Control Centers (26 24 19 00-0484)</b>		
26 24 19 00-0486	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp .....	17,361.40	281.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0487	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp .....	17,361.40	281.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0488	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp .....	17,361.40	281.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0489	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp .....	17,431.71	316.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.76	
26 24 19 00-0490	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp .....	18,519.15	351.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.83	
26 24 19 00-0491	EA		2.400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp .....	18,589.40	386.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	231.90	
26 24 19 00-0492	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp .....	18,659.66	421.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	252.98	
26 24 19 00-0493	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp .....	18,800.27	491.93
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.16	
26 24 19 00-0494	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp .....	18,940.80	562.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	337.32	
26 24 19 00-0495	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp .....	31,760.32	632.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	379.47	
26 24 19 00-0496	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp .....	34,099.73	702.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	421.66	
26 24 19 00-0497	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp .....	25,700.38	281.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0498	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp .....	26,778.24	302.19
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.31	
26 24 19 00-0499	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp .....	30,416.22	330.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	198.17	
26 24 19 00-0500	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp .....	33,849.06	351.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.83	
26 24 19 00-0501	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp .....	36,838.47	407.60
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.57	
26 24 19 00-0502	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp .....	40,357.25	435.71
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	261.43	
26 24 19 00-0503	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp .....	43,873.93	463.82
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	278.28	
26 24 19 00-0504	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp .....	48,049.75	505.98
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	303.60	
26 24 19 00-0505	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp .....	55,903.14	562.21
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	337.32	
26 24 19 00-0506	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp .....	60,562.19	597.35
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	358.43	
26 24 19 00-0507	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp .....	92,398.58	702.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	421.66	
26 24 19 00-0508	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp .....	98,457.51	773.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	463.86	
26 24 19 00-0509	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp .....	103,735.44	843.31
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	506.03	
26 24 19 00-0510	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp .....	112,954.92	913.72
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	548.24	
26 24 19 00-0511	EA		2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp .....	24,255.75	281.10
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	168.66	
26 24 19 00-0512	EA		2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp .....	24,326.06	316.24
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.76	
26 24 19 00-0513	EA		2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp .....	24,396.30	351.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	210.83	
26 24 19 00-0514	EA		2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp .....	24,466.55	386.51
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	231.90	
26 24 19 00-0515	EA		2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp .....	24,540.92	421.65
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	252.98	
26 24 19 00-0516	EA		2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP .....	24,611.26	456.80
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	274.08	
26 24 19 00-0517	EA		2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp .....	24,681.53	491.93
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.16	
26 24 19 00-0518	EA		2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp .....	24,962.55	632.48
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	379.47	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards and Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24	19 00-0519	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,370.89 421.66	702.76
26 24	19 00-0520	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,511.57 463.86	773.03
26 24	19 00-0521	EA	2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,838.60 506.03	843.31
26 24	19 00-0522	EA	Add For Reversing Starters, 100 To 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,548.91 84.33	
26 24	19 00-0523	EA	Add For Reversing Starters, 1,000 To 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,836.60 84.33	
26 24	19 00-0524	EA	Add For Reversing Starters, 1,750 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,025.35 84.33	
<b>26 24 19 00-0525 4.8 KV Motor Control Centers (26 24 19 00-0484)</b>					
26 24	19 00-0526	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,947.36 252.98	421.65
26 24	19 00-0527	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,017.70 274.08	456.80
26 24	19 00-0528	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,087.97 295.16	491.93
26 24	19 00-0529	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,158.28 316.26	527.07
26 24	19 00-0530	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,235.42 337.32	562.21
26 24	19 00-0531	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,305.77 358.43	597.35
26 24	19 00-0532	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,375.91 379.47	632.48
26 24	19 00-0533	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,446.32 400.59	667.62
26 24	19 00-0534	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,516.53 421.66	702.76
26 24	19 00-0535	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,634.71 548.24	913.72
26 24	19 00-0536	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,774.69 590.24	983.72
26 24	19 00-0537	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,103.79 632.41	1,053.99
26 24	19 00-0538	EA	4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,244.19 674.53	1,124.27
26 24	19 00-0539	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,273.24 252.98	421.65
26 24	19 00-0540	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,631.27 274.08	456.80
26 24	19 00-0541	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31,037.48 295.16	491.93
26 24	19 00-0542	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34,488.18 316.26	527.07
26 24	19 00-0543	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,435.33 337.32	562.21
26 24	19 00-0544	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,968.26 358.43	597.35
26 24	19 00-0545	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	44,285.22 379.47	632.48
26 24	19 00-0546	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	48,660.75 400.59	667.62
26 24	19 00-0547	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56,334.26 421.66	702.76
26 24	19 00-0548	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61,554.26 442.75	737.90
26 24	19 00-0549	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	66,844.55 484.92	808.17
26 24	19 00-0550	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71,207.68 506.03	843.31
26 24	19 00-0551	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	75,324.00 527.07	878.45
26 24	19 00-0552	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	81,076.52 548.24	913.72
26 24	19 00-0553	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	128,370.83 674.53	1,124.27
26 24	19 00-0554	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	142,732.15 716.86	1,194.82
26 24	19 00-0555	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	171,487.58 758.95	1,264.96
26 24	19 00-0556	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181,361.60 758.95	1,264.96
26 24	19 00-0557	EA	4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,978.20 295.16	491.93
26 24	19 00-0558	EA	4.8 KV CL 14-202, Synchronous Motor Control, 700 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,048.51 316.26	527.07
26 24	19 00-0559	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,118.73 337.32	562.21



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24 19 00-0560	EA		4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	26,189.08 358.43	597.35
	26 24 19 00-0561	EA		4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,425.14 379.47	632.48
	26 24 19 00-0562	EA		4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,495.55 400.59	667.62
	26 24 19 00-0563	EA		4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,565.76 421.66	702.76
	26 24 19 00-0564	EA		4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,636.06 442.75	737.90
	26 24 19 00-0565	EA		4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,706.44 463.86	773.03
	26 24 19 00-0566	EA		4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29,127.70 590.24	983.72
	26 24 19 00-0567	EA		4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,823.69 632.41	1,053.99
	26 24 19 00-0568	EA		4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49,142.34 674.53	1,124.27
	26 24 19 00-0569	EA		4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	49,142.34 674.53	1,124.27
	26 24 19 00-0570	EA		Add For Reversing Starters, 100 To 1,250 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,588.95 84.33	
	26 24 19 00-0571	EA		Add For Reversing Starters, 1,500 To 2,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,908.93 84.33	
	26 24 19 00-0572	EA		Add For Reversing Starters, 3,000 To 4,500 HP <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16,679.95 84.33	
	<b>26 24 19 00-0573</b>			<b>2.4/4.8 KV Motor Control Centers, Accessories</b> <small>(26 24 19 00-0484)</small>		
	26 24 19 00-0574	EA		2.4/4.8 KV Load Break Disconnect Switch 600 Amperes	13,818.42	281.10
	26 24 19 00-0575	EA		2.4/4.8 KV Load Break Disconnect Switch 1,200 Amperes	16,638.73	421.65
	26 24 19 00-0576	EA		2.4/4.8 KV NEMA 3 Weather Resistant	5,396.19	
	26 24 19 00-0577	EA		2.4/4.8 KV Space Heaters	273.40	21.08
	26 24 19 00-0578	EA		2.4/4.8 KV Potential Transformer Fused	1,563.32	
	26 24 19 00-0579	EA		2.4/4.8 KV Current Transformer 600 Volt, 5 KVA	838.80	
	26 24 19 00-0580	EA		2.4/4.8 KV Control Transformer 4 KVA Max	2,498.11	
	26 24 19 00-0581	EA		2.4/4.8 KV Pushbuttons Each	159.99	
	26 24 19 00-0582	EA		2.4/4.8 KV Selector Switch Each	530.25	
	26 24 19 00-0583	EA		2.4/4.8 KV Indicating Light	159.99	
	26 24 19 00-0584	EA		2.4/4.8 KV Push To Test Light	484.54	
	26 24 19 00-0585	EA		2.4/4.8 KV AC Voltmeter, Switchboard Type	1,289.05	
	26 24 19 00-0586	EA		2.4/4.8 KV AC Ammeter, Switchboard Type	1,289.05	
	26 24 19 00-0587	EA		2.4/4.8 KV Power Factor Meter	3,855.73	
	26 24 19 00-0588	EA		2.4/4.8 KV Watt Hr Meter, 2 Element Drawout	2,658.10	
	26 24 19 00-0589	EA		2.4/4.8 KV Operation Counter	526.70	21.08
	26 24 19 00-0590	EA		2.4/4.8 KV Phase Failure Protection	3,756.30	70.27
	26 24 19 00-0591	EA		2.4/4.8 KV Ground Protection	7,137.20	35.14
	26 24 19 00-0592	EA		2.4/4.8 KV Synchronous Motor DC Protection	2,873.22	35.14
	26 24 19 00-0593	EA		2.4/4.8 KV Lightning Arresters	5,306.24	21.08
	26 24 19 00-0594	EA		2.4/4.8 KV Portable Lifting Mechanism	7,673.41	
	26 24 19 00-0595	EA		2.4/4.8 KV Auxiliary Timing Relay	630.85	70.27
	26 24 19 00-0596	EA		2.4/4.8 KV Auxiliary Control Relay	464.78	70.27
	<b>26 24 19 00-0597</b>			<b>Incoming Section And Feeder Air Circuit Breakers</b> <small>(26 24 19 00-0484)</small>		
				Note: 3 Pole. Includes structure.		
	26 24 19 00-0598	EA		Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amperes, 14,000 Ampere IC, 3-Pole, With Structure Included	1,470.28	421.48
	26 24 19 00-0599	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amperes, 22,000 Ampere IC, 3-Pole, With Structure Included	2,555.80	746.03
	26 24 19 00-0600	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	3,075.59	955.24
	26 24 19 00-0601	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	4,922.97	1,538.21
	26 24 19 00-0602	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	5,770.16	1,692.04
	26 24 19 00-0603	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amperes, 30,000 Ampere IC, 3-Pole, With Structure Included	7,357.15	1,876.62
	26 24 19 00-0604	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 45,000 Ampere IC, 3-Pole, With Structure Included	8,567.56	2,199.65
	26 24 19 00-0605	EA		Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amperes, 100,000 Ampere IC, 3-Pole, With Structure Included	14,420.88	2,562.67
	<b>26 24 19 00-0606</b>			<b>Main Lugs Only</b> <small>(26 24 19 00-0484)</small>		
	26 24 19 00-0607	EA		600 Amperes Incoming Section, Main Lugs	1,225.89	538.38
	26 24 19 00-0608	EA		800 Amperes Incoming Section, Main Lugs	1,334.79	538.38
	26 24 19 00-0609	EA		1,200 Amperes Incoming Section, Main Lugs	1,887.05	846.02
	26 24 19 00-0610	EA		2,000 Amperes Incoming Section, Main Lugs	4,458.52	1,538.21
	26 24 19 00-0611	EA		3,000 Amperes Incoming Section, Main Lugs	6,755.27	2,230.41
	26 24 19 00-0612	EA		4,000 Amperes Incoming Section, Main Lugs	9,597.44	3,076.43

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards and Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0613			<b>Incoming Main Circuit Breaker Structure</b> <small>(26 24 19 00-0484)</small> Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0614	EA		225 Amperes, Main Circuit Breaker Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	7,362.73 182.00 334.00 97.00 245.00 108.00	744.34
26 24 19 00-0615	EA		400 Amperes, Main Circuit Breaker Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	15,420.33 182.00 334.00 97.00 245.00 108.00	956.16
26 24 19 00-0616	EA		600 Amperes, Main Circuit Breaker Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	16,177.27 182.00 334.00 97.00 245.00 108.00	1,489.30
26 24 19 00-0617	EA		800 Amperes, Main Circuit Breaker Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	22,775.58 182.00 334.00 97.00 245.00 108.00	1,489.30
26 24 19 00-0618	EA		1,200 Amperes, Main Circuit Breaker Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	32,807.44 182.00 334.00 97.00 245.00 108.00	1,685.12
26 24 19 00-0619			<b>Incoming Fusible Main Disconnect Section</b> <small>(26 24 19 00-0484)</small> Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.		
26 24 19 00-0620	EA		200 Amperes, Fusible Main Disconnect Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	6,426.25 182.00 334.00 97.00 245.00 108.00	745.27
26 24 19 00-0621	EA		400 Amperes, Fusible Main Disconnect Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	8,848.66 182.00 334.00 97.00 245.00 108.00	956.62
26 24 19 00-0622	EA		600 Amperes, Fusible Main Disconnect Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	17,160.18 182.00 334.00 97.00 245.00 108.00	1,490.53
26 24 19 00-0623	EA		800 Amperes, Fusible Main Disconnect Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	19,866.93 182.00 334.00 97.00 245.00 108.00	1,490.53
26 24 19 00-0624	EA		1,200 Amperes, Fusible Main Disconnect Section ..... <i>For 800 Amperes, Tin Plated Copper Bus, Add</i> <i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	27,841.91 182.00 334.00 97.00 245.00 108.00	1,686.65
26 24 19 00-0625			<b>Circuit Breaker Combination Starters</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0626			<b>Class I, Type A</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0627	EA		Size 1, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,206.88 178.04	312.25
26 24 19 00-0628	EA		Size 2, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,397.86 197.21	312.25
26 24 19 00-0629	EA		Size 3, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,016.29 265.21	443.00
26 24 19 00-0630	EA		Size 4, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,232.82 349.59	582.99
26 24 19 00-0631	EA		Size 5, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,675.44 436.99	729.11



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 19 00-0632</b> <b>Class I, Type B</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633    EA    Size 1, Class I, Type B Circuit Breaker Combination Starter ..... 1,133.21	1,133.21	272.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.82	
26 24 19 00-0634    EA    Size 2, Class I, Type B Circuit Breaker Combination Starter ..... 1,317.91	1,317.91	272.26
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	173.22	
26 24 19 00-0635    EA    Size 3, Class I, Type B Circuit Breaker Combination Starter ..... 1,921.09	1,921.09	393.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.65	
26 24 19 00-0636    EA    Size 4, Class I, Type B Circuit Breaker Combination Starter ..... 3,135.71	3,135.71	533.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.46	
26 24 19 00-0637    EA    Size 5, Class I, Type B Circuit Breaker Combination Starter ..... 5,597.12	5,597.12	681.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	413.50	
<b>26 24 19 00-0638</b> <b>Class I, Type C</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639    EA    Size 1, Class I, Type C Circuit Breaker Combination Starter ..... 1,179.94	1,179.94	252.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	139.33	
26 24 19 00-0640    EA    Size 2, Class I, Type C Circuit Breaker Combination Starter ..... 1,378.80	1,378.80	252.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	163.64	
26 24 19 00-0641    EA    Size 3, Class I, Type C Circuit Breaker Combination Starter ..... 2,038.01	2,038.01	376.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	226.21	
26 24 19 00-0642    EA    Size 4, Class I, Type C Circuit Breaker Combination Starter ..... 3,261.38	3,261.38	521.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	312.65	
26 24 19 00-0643    EA    Size 5, Class I, Type C Circuit Breaker Combination Starter ..... 5,710.31	5,710.31	669.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	400.58	
<b>26 24 19 00-0644</b> <b>Class II, Type B</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645    EA    Size 1, Class II, Type B Circuit Breaker Combination Starter ..... 1,230.60	1,230.60	373.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	211.29	
26 24 19 00-0646    EA    Size 2, Class II, Type B Circuit Breaker Combination Starter ..... 1,662.78	1,662.78	373.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	235.92	
26 24 19 00-0647    EA    Size 3, Class II, Type B Circuit Breaker Combination Starter ..... 2,332.01	2,332.01	498.38
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	298.10	
26 24 19 00-0648    EA    Size 4, Class II, Type B Circuit Breaker Combination Starter ..... 3,738.85	3,738.85	638.36
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	384.56	
26 24 19 00-0649    EA    Size 5, Class II, Type B Circuit Breaker Combination Starter ..... 6,592.73	6,592.73	779.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	468.97	
<b>26 24 19 00-0650</b> <b>Class II, Type C</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651    EA    Size 1, Class II, Type C Circuit Breaker Combination Starter ..... 1,494.42	1,494.42	353.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	202.40	
26 24 19 00-0652    EA    Size 2, Class II, Type C Circuit Breaker Combination Starter ..... 1,708.18	1,708.18	353.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	221.01	
26 24 19 00-0653    EA    Size 3, Class II, Type C Circuit Breaker Combination Starter ..... 2,456.11	2,456.11	483.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	289.14	
26 24 19 00-0654    EA    Size 4, Class II, Type C Circuit Breaker Combination Starter ..... 3,853.24	3,853.24	622.98
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	373.35	
26 24 19 00-0655    EA    Size 5, Class II, Type C Circuit Breaker Combination Starter ..... 6,727.87	6,727.87	769.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	463.32	
<b>26 24 19 00-0656</b> <b>Fused Disconnect Combination Starter</b> <small>(26 24 19 00-0484)</small>		
<b>26 24 19 00-0657</b> <b>Class I, Type A</b> <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658    EA    Size 1, Class I, Type A Fused Disconnect Combination Starter ..... 1,109.05	1,109.05	287.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	173.22	
26 24 19 00-0659    EA    Size 2, Class I, Type A Fused Disconnect Combination Starter ..... 1,653.72	1,653.72	393.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	235.92	
26 24 19 00-0660    EA    Size 3, Class I, Type A Fused Disconnect Combination Starter ..... 2,578.94	2,578.94	512.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	307.64	
26 24 19 00-0661    EA    Size 4, Class I, Type A Fused Disconnect Combination Starter ..... 3,536.17	3,536.17	718.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	432.08	
26 24 19 00-0662    EA    Size 5, Class I, Type A Fused Disconnect Combination Starter ..... 6,042.47	6,042.47	915.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	549.36	
<b>26 24 19 00-0663</b> <b>Class I, Type B</b> <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664    EA    Size 1, Class I, Type B Fused Disconnect Combination Starter ..... 1,112.83	1,112.83	256.88
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.82	
26 24 19 00-0665    EA    Size 2, Class I, Type B Fused Disconnect Combination Starter ..... 1,501.78	1,501.78	352.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	211.29	
26 24 19 00-0666    EA    Size 3, Class I, Type B Fused Disconnect Combination Starter ..... 2,200.07	2,200.07	470.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	282.76	
26 24 19 00-0667    EA    Size 4, Class I, Type B Fused Disconnect Combination Starter ..... 3,633.37	3,633.37	679.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	409.10	
26 24 19 00-0668    EA    Size 5, Class I, Type B Fused Disconnect Combination Starter ..... 6,118.26	6,118.26	864.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	519.67	
<b>26 24 19 00-0669</b> <b>Class I, Type C</b> <small>(26 24 19 00-0656)</small>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0670 EA Size 1, Class I, Type C Fused Disconnect Combination Starter.....	1,163.97	239.96
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>144.03</i>	
26 24 19 00-0671 EA Size 2, Class I, Type C Fused Disconnect Combination Starter.....	1,567.28	326.10
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>197.21</i>	
26 24 19 00-0672 EA Size 3, Class I, Type C Fused Disconnect Combination Starter.....	2,367.40	453.77
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>274.68</i>	
26 24 19 00-0673 EA Size 4, Class I, Type C Fused Disconnect Combination Starter.....	3,799.22	669.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>400.58</i>	
26 24 19 00-0674 EA Size 5, Class I, Type C Fused Disconnect Combination Starter.....	5,803.38	855.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>512.74</i>	
<b>26 24 19 00-0675 Class II, Type B</b> <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676 EA Size 1, Class II, Type B Fused Disconnect Combination Starter.....	1,419.88	359.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>216.04</i>	
26 24 19 00-0677 EA Size 2, Class II, Type B Fused Disconnect Combination Starter.....	1,826.77	449.16
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>268.92</i>	
26 24 19 00-0678 EA Size 3, Class II, Type B Fused Disconnect Combination Starter.....	2,616.83	578.37
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>346.44</i>	
26 24 19 00-0679 EA Size 4, Class II, Type B Fused Disconnect Combination Starter.....	4,190.76	779.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>468.97</i>	
26 24 19 00-0680 EA Size 5, Class II, Type B Fused Disconnect Combination Starter.....	7,023.46	973.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>582.66</i>	
<b>26 24 19 00-0681 Class II, Type C</b> <small>(26 24 19 00-0656)</small>		
26 24 19 00-0682 EA Size 1, Class II, Type C Fused Disconnect Combination Starter.....	1,458.18	338.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>202.40</i>	
26 24 19 00-0683 EA Size 2, Class II, Type C Fused Disconnect Combination Starter.....	1,891.73	424.55
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>254.67</i>	
26 24 19 00-0684 EA Size 3, Class II, Type C Fused Disconnect Combination Starter.....	2,751.09	552.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>331.51</i>	
26 24 19 00-0685 EA Size 4, Class II, Type C Fused Disconnect Combination Starter.....	4,337.58	761.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>457.80</i>	
26 24 19 00-0686 EA Size 5, Class II, Type C Fused Disconnect Combination Starter.....	7,160.60	942.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>565.52</i>	
<b>26 24 19 00-0687 Space Complete With Bus And Hardware</b> <small>(26 24 19 00-0484)</small>		
<b>26 24 19 00-0688 Circuit Breaker Type</b> <small>(26 24 19 00-0687)</small>		
26 24 19 00-0689 EA Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	348.83	104.60
26 24 19 00-0690 EA Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	348.83	104.60
26 24 19 00-0691 EA Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	517.34	152.29
26 24 19 00-0692 EA Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	621.83	199.97
26 24 19 00-0693 EA Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	1,030.97	304.57
<b>26 24 19 00-0694 Fused Disconnect Type</b> <small>(26 24 19 00-0687)</small>		
26 24 19 00-0695 EA Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	348.83	104.60
26 24 19 00-0696 EA Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	468.07	152.29
26 24 19 00-0697 EA Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	645.94	199.97
26 24 19 00-0698 EA Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	1,098.26	304.57
26 24 19 00-0699 EA Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,538.35	443.00
<b>26 24 19 00-0700 Blank Space For Future Expansion</b> <small>(26 24 19 00-0687)</small>		
Note: Factory modified no labor costs.		
26 24 19 00-0701 EA Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	140.40	
26 24 19 00-0702 EA Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	140.40	
26 24 19 00-0703 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs.....	212.86	
26 24 19 00-0704 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs.....	212.86	
26 24 19 00-0705 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs.....	423.46	
<b>26 24 19 00-0706 Structure Combination Of Starters To 72" High</b> <small>(26 24 19 00-0687)</small>		
26 24 19 00-0707 EA Structure Combination Of Starters To 72" High.....	3,901.56	809.56
<b>26 24 19 00-0708 Motor Control Center Basic Distribution Section</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0709 EA 20" Wide Basic Section With Vertical Wireway.....	6,834.95	2,108.28
<i>For 20" Cabinet Depth, Add</i>	<i>108.00</i>	
<i>For 800 Amperes, Tin Plated Copper Bus, Add</i>	<i>182.00</i>	
<i>For 1,200 Amperes, Tin Plated Copper Bus, Add</i>	<i>334.00</i>	
<i>For 1,600 Amperes, Tin Plated Copper Bus, Add</i>	<i>402.00</i>	
<i>For 2,000 Amperes, Tin Plated Copper Bus, Add</i>	<i>506.00</i>	
<i>For NEMA 1 With Gasket, Add</i>	<i>97.00</i>	
<i>For NEMA 12, Add</i>	<i>245.00</i>	
<i>For 600 Amperes, Tin Plated Copper Vertical, Add</i>	<i>210.00</i>	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0710 EA 25" To 35" Wide Basic Section (No Vertical Wireway).....	6,834.95	2,108.28
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711 EA 25" Wide Basic Section With 9" Wide Vertical Wireway .....	7,451.93	2,108.28
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712 EA Corner Section.....	7,451.93	2,108.28
For 20" Cabinet Depth, Add	108.00	
For 800 Amperes, Tin Plated Copper Bus, Add	182.00	
For 1,200 Amperes, Tin Plated Copper Bus, Add	334.00	
For 1,600 Amperes, Tin Plated Copper Bus, Add	402.00	
For 2,000 Amperes, Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amperes, Tin Plated Copper Vertical, Add	210.00	
<b>26 24 19 00-0713 Motor Control Center Starters With HMCP Circuit Breaker</b> <small>(26 24 19 00-0484)</small>		
Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
<b>26 24 19 00-0714 FVNR Starters With HMCP Circuit Breaker</b> <small>(26 24 19 00-0713)</small>		
26 24 19 00-0715 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker .....	1,665.71	296.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.65	
26 24 19 00-0716 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker .....	1,853.54	328.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	197.04	
26 24 19 00-0717 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker .....	3,158.55	441.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	264.91	
26 24 19 00-0718 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker .....	4,556.32	582.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	349.28	
26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker .....	10,129.35	727.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	436.50	
26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker .....	23,273.10	727.42
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	436.50	
26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker .....	1,663.32	256.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	153.66	
26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker .....	1,875.76	288.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	173.04	
26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker .....	3,204.59	393.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.26	
26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker .....	4,538.30	533.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	320.28	
26 24 19 00-0725 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker .....	10,131.31	689.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	413.50	
26 24 19 00-0726 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker .....	23,416.49	689.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	413.50	
<b>26 24 19 00-0727 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker</b> <small>(26 24 19 00-0713)</small>		
26 24 19 00-0728 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,623.33	370.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	222.29	
26 24 19 00-0729 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	3,199.26	409.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.98	
26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	5,218.89	550.99
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	330.56	
26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	8,883.95	728.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	436.99	
26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	15,870.41	911.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	546.76	
26 24 19 00-0733 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,640.18	319.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	191.96	
26 24 19 00-0734 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	3,242.34	360.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	216.45	
26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	5,283.91	493.00
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	295.81	
26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	8,880.51	667.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	400.58	
26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	15,890.28	862.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	517.34	
<b>26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker</b> <small>(26 24 19 00-0713)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,859.22	370.56
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.29	
26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	4,018.57	409.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	245.98	
26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	7,488.13	550.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	330.56	
26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	10,187.62	728.34
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	436.99	
26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	20,187.15	911.24
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	546.76	
26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,876.07	319.95
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	191.96	
26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	4,061.66	360.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	216.45	
26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	7,553.14	493.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	295.81	
26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	10,184.18	667.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	400.58	
26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	20,207.02	862.17
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	517.34	
<b>26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect</b> <small>(26 24 19 00-0484)</small>		
<i>Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.</i>		
<b>26 24 19 00-0750 FVNR Starters With Fusible Disconnect</b> <small>(26 24 19 00-0749)</small>		
26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,365.27	288.72
26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,786.53	392.39
26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,917.71	511.30
26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	4,859.06	720.20
26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	9,535.28	915.55
26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	23,569.01	915.55
26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,376.45	255.96
26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,806.98	351.48
26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,979.02	471.31
26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	4,861.09	681.89
26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	9,514.93	866.17
26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	23,690.19	866.17
<b>26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect</b> <small>(26 24 19 00-0749)</small>		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,293.85	361.48
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,190.48	490.54
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,888.24	638.82
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	10,059.91	902.77
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	16,190.70	1,056.44
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,327.77	319.95
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,228.99	439.01
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,971.12	589.75
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	10,074.00	850.78
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	16,188.21	996.30
<b>26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect</b> <small>(26 24 19 00-0749)</small>		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,649.25	361.48
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	4,022.37	490.54
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,181.06	638.82
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,537.97	902.77
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	19,629.94	1,056.44
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,684.22	319.95
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	4,060.89	439.01
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	7,263.94	589.75
26 24 19 00-0783 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	10,552.06	850.78
26 24 19 00-0784 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	19,627.45	996.30
<b>26 24 19 00-0785 Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit</b> <small>(26 24 19 00-0484)</small>		
<i>Note: Per section. Labor is included in basic distribution section.</i>		
26 24 19 00-0786 EA 600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	277.54	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.55	
26 24 19 00-0787 EA 800 Amperes, Horizontal Tin Plated Copper Bus Kit.....	338.35	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.55	
26 24 19 00-0788 EA 1,200 Amperes, Horizontal Tin Plated Copper Bus Kit.....	406.86	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.86	
26 24 19 00-0789 EA 1,600 Amperes, Horizontal Tin Plated Copper Bus Kit.....	526.37	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.86	
26 24 19 00-0790 EA 2,000 Amperes, Horizontal Tin Plated Copper Bus Kit.....	877.93	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.17	
26 24 19 00-0791 EA 1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....	160.80	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 19 00-0792</b> <b>Disconnect Switch For Motor Control Centers</b> <small>(26 24 19 00-0484)</small>		
<b>26 24 19 00-0793</b> <b>3 Pole Circuit Breaker Disconnect For Motor Control Center</b> <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0794 EA 150 Amperes Rating, 15 To 100 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,011.81	222.27
26 24 19 00-0795 EA 150 Amperes Rating, 125 To 150 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	1,688.47	246.12
26 24 19 00-0796 EA 225 Amperes Rating, 70 To 225 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	2,077.88	331.49
26 24 19 00-0797 EA 400 Amperes Rating, 125 To 400 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	3,382.70	436.85
26 24 19 00-0798 EA 600 Amperes Rating, 300 To 600 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	5,724.22	546.06
26 24 19 00-0799 EA 800 Amperes Rating, 400 To 800 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	6,485.67	546.06
26 24 19 00-0800 EA 1,200 Amperes Rating, 600 To 1,200 Amperes Trip Range, 3 Pole Circuit Breaker Disconnect.....	13,107.62	683.73
<b>26 24 19 00-0801</b> <b>Fusible Disconnect Switch For Motor Control Center</b> <small>(26 24 19 00-0792)</small>		
Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).		
26 24 19 00-0802 EA 30 Amperes Switch Rating, Fusible Disconnect Switch With 30 Amperes Fuse Clips.....	951.17	216.12
26 24 19 00-0803 EA 60 Amperes Switch Rating, Fusible Disconnect Switch With 60 Amperes Fuse Clips.....	1,139.58	294.56
26 24 19 00-0804 EA 100 Amperes Switch Rating, Fusible Disconnect Switch With 100 Amperes Fuse Clips.....	1,549.46	376.87
26 24 19 00-0805 EA 200 Amperes Switch Rating, Fusible Disconnect Switch With 200 Amperes Fuse Clips.....	2,814.46	539.91
26 24 19 00-0806 EA 400 Amperes Switch Rating, Fusible Disconnect Switch With 400 Amperes Fuse Clips.....	4,875.55	686.66
26 24 19 00-0807 EA 600 Amperes Switch Rating, Fusible Disconnect Switch With 600 Amperes Fuse Clips.....	10,788.46	686.66
26 24 19 00-0808 EA 800 Amperes Switch Rating, Fusible Disconnect Switch With 800 Amperes Fuse Clips.....	13,341.28	858.33
26 24 19 00-0809 EA 1,200 Amperes Switch Rating, Fusible Disconnect Switch With 1,200 Amperes Fuse Clips.....	19,530.96	858.33
<b>26 24 19 00-0810</b> <b>Control Circuit Transformer</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0811 EA Control Circuit Transformer, Size 1 Factory Installed .....	74.90	
26 24 19 00-0812 EA Control Circuit Transformer, Size 2 Factory Installed .....	74.90	
26 24 19 00-0813 EA Control Circuit Transformer, Size 3 Factory Installed .....	144.26	
26 24 19 00-0814 EA Control Circuit Transformer, Size 4 Factory Installed .....	144.26	
26 24 19 00-0815 EA Control Circuit Transformer, Size 5 Factory Installed .....	200.41	
26 24 19 00-0816 EA Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay .....	64.20	17.40
<b>26 24 19 00-0817</b> <b>Cover Mounted Control Devices</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0818 EA Control Device, 2 Unit Push Button Station Cover Mounted.....	138.99	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	19.23	
26 24 19 00-0819 EA Control Device, 2-3 Unit Selector Switch Cover Mounted.....	157.80	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	24.04	
26 24 19 00-0820 EA Control Device, Pilot Light Cover Mounted .....	128.46	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	14.40	
26 24 19 00-0821 EA Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light .....	365.49	104.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	63.04	
26 24 19 00-0822 EA Auxiliary Contact Add Per Starter .....	402.14	39.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	23.91	
<b>26 24 19 00-0823</b> <b>Extra Interlocks</b> <small>(26 24 19 00-0484)</small>		
Note: Per contact.		
26 24 19 00-0824 EA Extra Interlocks, Class I, Type A Per Contact.....	91.86	19.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	14.40	
26 24 19 00-0825 EA Extra Interlocks, Class I, Type B Per Contact.....	123.17	19.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	14.40	
26 24 19 00-0826 EA Extra Interlocks, Class I, Type C Per Contact.....	134.00	19.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	12.02	
26 24 19 00-0827 EA Extra Interlocks, Class II, Type B Per Contact.....	119.72	19.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	9.62	
26 24 19 00-0828 EA Extra Interlocks, Class II, Type C Per Contact.....	124.38	19.99
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	7.25	
<b>26 24 19 00-0829</b> <b>Special Cabinet Provisions</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions .....	937.67	
<b>26 24 19 00-0831</b> <b>Nameplate Requirements</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0832 EA Special Cabinet Nameplate Requirements .....	33.29	
<b>26 24 19 00-0833</b> <b>Auxiliary Relays</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0834 EA Industrial Control Relay, 10 Amperes, Class A600 With 2 Contacts.....	200.31	38.51
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	23.10	
26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay .....	190.29	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	23.10	
26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amperes, With Base .....	115.54	34.65
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	23.10	
<b>26 24 19 00-0837</b> <b>Motor Control Center Accessories</b> <small>(26 24 19 00-0484)</small>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards and Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 19 00-0838</b> <b>Lighting Transformer With Circuit Breaker</b> <small>(26 24 19 00-0837)</small>		
Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.		
26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,646.70	491.30
26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	5,870.95	510.96
26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	6,419.63	550.26
26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	8,024.67	589.57
26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,716.92	628.87
26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,135.87	707.48
26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker.....	17,196.21	786.09
26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	10,128.19	648.53
26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	11,005.03	707.48
26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	12,576.43	786.09
26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	13,355.91	864.70
26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,069.61	943.31
26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker.....	16,602.49	1,021.92
<b>26 24 19 00-0852</b> <b>Bolt-On Lighting Panel</b> <small>(26 24 19 00-0837)</small>		
Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.		
26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	2,618.17	800.49
26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	4,139.03	1,393.31
26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt.....	5,513.63	1,885.08
26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	2,749.42	866.17
26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	4,079.74	1,363.63
26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt.....	5,749.26	2,002.91
26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	4,253.43	928.47
26 24 19 00-0860 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	5,762.92	1,490.53
26 24 19 00-0861 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt.....	7,255.80	2,002.91
26 24 19 00-0862 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	4,399.46	1,001.38
26 24 19 00-0863 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	5,762.92	1,490.53
26 24 19 00-0864 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt.....	7,385.01	2,067.52
<b>26 24 19 00-0865</b> <b>Factory Installed Bolt-On Branch Circuit Breaker</b> <small>(26 24 19 00-0837)</small>		
Note: For MCC lighting panel only.		
26 24 19 00-0866 EA 15 To 30 Amperes, 1 Pole, Bolt-On Branch Circuit Breaker.....	22.75	
26 24 19 00-0867 EA 15 To 30 Amperes, 1 Pole (GFI) Bolt-On Branch Circuit Breaker.....	288.98	
26 24 19 00-0868 EA 15 To 50 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	44.47	
26 24 19 00-0869 EA 60 To 100 Amperes, 2 Pole, Bolt-On Branch Circuit Breaker.....	102.38	
26 24 19 00-0870 EA 15 To 50 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	119.96	
26 24 19 00-0871 EA 60 To 100 Amperes, 3 Pole, Bolt-On Branch Circuit Breaker.....	182.02	
<b>26 24 19 00-0872</b> <b>Blank Unit Door (BUD)</b> <small>(26 24 19 00-0837)</small>		
Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.		
26 24 19 00-0873 EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	77.06	
26 24 19 00-0874 EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	92.47	
26 24 19 00-0875 EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	138.71	
26 24 19 00-0876 EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	184.95	
26 24 19 00-0877 EA 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	277.42	
26 24 19 00-0878 EA 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	323.65	
26 24 19 00-0879 EA 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure.....	369.89	
<b>26 25 Enclosed Bus Assemblies</b> <small>(26 20)</small>		
<b>26 25 13 Low-Voltage Busways</b> <small>(26 25)</small>		
<b>26 25 13 00-0001</b> <b>Plug-In Bus Duct</b> <small>(26 25 13)</small>		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
<b>26 25 13 00-0002</b> <b>600 Volt, 3-Phase, 3-Wire, Copper Conductors</b> <small>(26 25 13 00-0001)</small>		
26 25 13 00-0003 LF 225 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	287.52	46.15
For Up To 25, Add	71.88	
For >25 To 50, Add	43.13	
For >50 To 100, Add	21.56	
26 25 13 00-0004 LF 400 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	397.97	46.15
For Up To 25, Add	99.49	
For >25 To 50, Add	59.70	
For >50 To 100, Add	29.85	
26 25 13 00-0005 LF 600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	500.48	61.53
For Up To 25, Add	125.12	
For >25 To 50, Add	75.07	
For >50 To 100, Add	37.54	
26 25 13 00-0006 LF 800 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	679.51	61.53
For Up To 25, Add	169.88	
For >25 To 50, Add	101.93	
For >50 To 100, Add	50.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0007 LF 1,000 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	717.59	76.91
<i>For Up To 25, Add</i>	179.40	
<i>For &gt;25 To 50, Add</i>	107.64	
<i>For &gt;50 To 100, Add</i>	53.82	
26 25 13 00-0008 LF 1,350 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	985.75	76.91
<i>For Up To 25, Add</i>	246.44	
<i>For &gt;25 To 50, Add</i>	147.86	
<i>For &gt;50 To 100, Add</i>	73.93	
26 25 13 00-0009 LF 1,600 Amperes, Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	1,146.72	80.76
<i>For Up To 25, Add</i>	286.68	
<i>For &gt;25 To 50, Add</i>	172.01	
<i>For &gt;50 To 100, Add</i>	86.00	
26 25 13 00-0010 LF 2,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	1,385.74	83.06
<i>For Up To 25, Add</i>	346.44	
<i>For &gt;25 To 50, Add</i>	207.86	
<i>For &gt;50 To 100, Add</i>	103.93	
26 25 13 00-0011 LF 2,500 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	1,700.03	87.68
<i>For Up To 25, Add</i>	425.01	
<i>For &gt;25 To 50, Add</i>	255.00	
<i>For &gt;50 To 100, Add</i>	127.50	
26 25 13 00-0012 LF 3,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	1,963.68	102.29
<i>For Up To 25, Add</i>	490.92	
<i>For &gt;25 To 50, Add</i>	294.55	
<i>For &gt;50 To 100, Add</i>	147.28	
26 25 13 00-0013 LF 4,000 Amperes Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	2,267.78	111.52
<i>For Up To 25, Add</i>	566.95	
<i>For &gt;25 To 50, Add</i>	340.17	
<i>For &gt;50 To 100, Add</i>	170.08	
<b>26 25 13 00-0014 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors</b> <small>(26 25 13 00-0001)</small>		
26 25 13 00-0015 LF 225 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	448.64	46.15
<i>For Up To 25, Add</i>	112.16	
<i>For &gt;25 To 50, Add</i>	67.30	
<i>For &gt;50 To 100, Add</i>	33.65	
26 25 13 00-0016 LF 400 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	638.75	46.15
<i>For Up To 25, Add</i>	159.69	
<i>For &gt;25 To 50, Add</i>	95.81	
<i>For &gt;50 To 100, Add</i>	47.91	
26 25 13 00-0017 LF 600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	722.19	61.53
<i>For Up To 25, Add</i>	180.55	
<i>For &gt;25 To 50, Add</i>	108.33	
<i>For &gt;50 To 100, Add</i>	54.16	
26 25 13 00-0018 LF 800 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	911.95	61.53
<i>For Up To 25, Add</i>	227.99	
<i>For &gt;25 To 50, Add</i>	136.79	
<i>For &gt;50 To 100, Add</i>	68.40	
26 25 13 00-0019 LF 1,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	1,107.28	76.91
<i>For Up To 25, Add</i>	276.82	
<i>For &gt;25 To 50, Add</i>	166.09	
<i>For &gt;50 To 100, Add</i>	83.05	
26 25 13 00-0020 LF 1,350 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	1,423.78	76.91
<i>For Up To 25, Add</i>	355.95	
<i>For &gt;25 To 50, Add</i>	213.57	
<i>For &gt;50 To 100, Add</i>	106.78	
26 25 13 00-0021 LF 1,600 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	1,832.96	79.68
<i>For Up To 25, Add</i>	458.24	
<i>For &gt;25 To 50, Add</i>	274.94	
<i>For &gt;50 To 100, Add</i>	137.47	
26 25 13 00-0022 LF 2,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	2,198.78	83.06
<i>For Up To 25, Add</i>	549.70	
<i>For &gt;25 To 50, Add</i>	329.82	
<i>For &gt;50 To 100, Add</i>	164.91	
26 25 13 00-0023 LF 2,500 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	2,716.42	86.91
<i>For Up To 25, Add</i>	679.11	
<i>For &gt;25 To 50, Add</i>	407.46	
<i>For &gt;50 To 100, Add</i>	203.73	
26 25 13 00-0024 LF 3,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	3,136.46	102.29
<i>For Up To 25, Add</i>	784.12	
<i>For &gt;25 To 50, Add</i>	470.47	
<i>For &gt;50 To 100, Add</i>	235.23	
26 25 13 00-0025 LF 4,000 Amperes Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors .....	3,630.93	111.52
<i>For Up To 25, Add</i>	907.73	
<i>For &gt;25 To 50, Add</i>	544.64	
<i>For &gt;50 To 100, Add</i>	272.32	
<b>26 25 13 00-0026 Cable Tap Boxes</b> <small>(26 25 13 00-0001)</small>		
<b>26 25 13 00-0027 600 Volt, 3-Phase, 3-Wire, Copper Conductors</b> <small>(26 25 13 00-0026)</small>		
26 25 13 00-0028 EA 225 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,244.81	215.35
26 25 13 00-0029 EA 400 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,340.31	215.35
26 25 13 00-0030 EA 600 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,542.57	292.26
26 25 13 00-0031 EA 800 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,719.67	292.26
26 25 13 00-0032 EA 1,000 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,926.82	384.55

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 25 Enclosed Bus Assemblies**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0033 EA 1,350 Amperes Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	3,210.38	384.55
<b>26 25 13 00-0034 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors</b> (26 25 13 00-0026)		
26 25 13 00-0035 EA 225 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	2,340.31	423.01
26 25 13 00-0036 EA 400 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	2,560.22	423.01
26 25 13 00-0037 EA 600 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	2,753.41	576.83
26 25 13 00-0038 EA 800 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	3,096.84	576.83
26 25 13 00-0039 EA 1,000 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	3,275.33	769.11
26 25 13 00-0040 EA 1,350 Amperes Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	3,719.47	769.11
<b>26 25 13 00-0041 Bus Duct Plug-In Circuit Breaker</b> (26 25 13 00-0001)		
<b>26 25 13 00-0042 240 Volt, 3-Phase</b> (26 25 13 00-0041)		
26 25 13 00-0043 EA 60 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker .....	1,042.70	153.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.15	
26 25 13 00-0044 EA 100 Amperes, 240 Volt, 3 Phase, Bus Duct Plug-In Circuit Breaker .....	2,012.41	153.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.02	
<b>26 25 13 00-0045 600 Volt, 3-Phase</b> (26 25 13 00-0041)		
26 25 13 00-0046 EA 60 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker .....	1,932.83	153.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	84.15	
26 25 13 00-0047 EA 100 Amperes, 600 Volt, 3 Phase, Bus Duct Plug-in Circuit Breaker .....	2,502.46	153.82
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	108.02	
<b>26 25 13 00-0048 120/208 Volt, 3-Phase, 4-Wire</b> (26 25 13 00-0041)		
26 25 13 00-0049 EA 60 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker .....	1,199.93	184.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.14	
26 25 13 00-0050 EA 100 Amperes, 120/208 Volt, 3 Phase, 4 Wire, Bus Duct Plug-in Circuit Breaker .....	1,439.05	184.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.17	
<b>26 25 13 00-0051 277/480 Volt, 3-Phase, 4-Wire</b> (26 25 13 00-0041)		
26 25 13 00-0052 EA 60 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker .....	1,358.93	184.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	96.14	
26 25 13 00-0053 EA 100 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker .....	2,061.66	184.58
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.17	
26 25 13 00-0054 EA 225 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker .....	3,117.35	638.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	276.66	
26 25 13 00-0055 EA 400 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker .....	7,378.21	638.36
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	600.86	
26 25 13 00-0056 EA 600 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker .....	8,415.24	1,845.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	835.99	
26 25 13 00-0057 EA 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire, Bus Duct Plug-In Circuit Breaker .....	10,980.95	1,845.86
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,479.05	
<b>26 25 13 00-0058 Bus Duct Plug-In Fusible Switch</b> (26 25 13 00-0001)		
<b>26 25 13 00-0059 240 Volt, 3-Pole, 3-Fuse</b> (26 25 13 00-0058)		
26 25 13 00-0060 EA 30 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,040.51	153.82
26 25 13 00-0061 EA 60 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,151.32	153.82
26 25 13 00-0062 EA 100 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,578.85	184.58
26 25 13 00-0063 EA 200 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	2,674.49	369.17
26 25 13 00-0064 EA 400 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	6,681.49	830.64
26 25 13 00-0065 EA 600 Amperes, 240 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	10,126.97	1,445.92
<b>26 25 13 00-0066 600 Volt, 3-Pole, 3-Fuse</b> (26 25 13 00-0058)		
26 25 13 00-0067 EA 30 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,071.24	169.21
26 25 13 00-0068 EA 60 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,179.76	169.21
26 25 13 00-0069 EA 100 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,583.71	169.21
26 25 13 00-0070 EA 200 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	2,725.98	353.79
26 25 13 00-0071 EA 400 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	6,640.40	799.88
26 25 13 00-0072 EA 600 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	10,418.30	1,538.21
26 25 13 00-0073 EA 800 Amperes, 600 Volt, 3 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	16,796.23	1,999.68
<b>26 25 13 00-0074 120/208 Volt, 4-pole, 3 Fuse</b> (26 25 13 00-0058)		
26 25 13 00-0075 EA 30 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,200.65	199.97
26 25 13 00-0076 EA 60 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,301.58	199.97
26 25 13 00-0077 EA 100 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,758.31	199.97
26 25 13 00-0078 EA 200 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	2,977.13	415.31
26 25 13 00-0079 EA 400 Amperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	7,356.72	922.93
26 25 13 00-0080 EA 600 AAmperes, 120/208 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	10,738.69	1,415.16
<b>26 25 13 00-0081 277/480 Volt, 4-pole, 3-Fuse</b> (26 25 13 00-0058)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 13 00-0082 EA 30 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,237.21	199.97
26 25 13 00-0083 EA 60 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,338.15	169.67
26 25 13 00-0084 EA 100 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	1,868.24	230.73
26 25 13 00-0085 EA 200 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	3,095.45	415.31
26 25 13 00-0086 EA 400 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	7,356.72	922.93
26 25 13 00-0087 EA 600 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	10,738.69	1,415.16
26 25 13 00-0088 EA 800 Amperes, 277/480 Volt, 4 Phase, 3 Fuses, Bus Duct Plug-in Fusible Switch .....	16,781.95	1,876.62

**26 25 16 Low-Voltage Cablebus Systems (26 25)**

<b>26 25 16 00-0001</b>	<b>Feeder Bus Duct (26 25 16)</b> Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
<b>26 25 16 00-0002</b>	<b>600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance (26 25 16 00-0001)</b> Note: Copper conductors.		
26 25 16 00-0003	LF 800 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	799.62	64.60
	For Up To 25, Add	199.91	
	For >25 To 50, Add	119.94	
	For >50 To 100, Add	59.97	
26 25 16 00-0004	LF 1,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	812.75	64.60
	For Up To 25, Add	203.19	
	For >25 To 50, Add	121.91	
	For >50 To 100, Add	60.96	
26 25 16 00-0005	LF 1,350 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	1,056.26	64.60
	For Up To 25, Add	264.07	
	For >25 To 50, Add	158.44	
	For >50 To 100, Add	79.22	
26 25 16 00-0006	LF 1,600 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	1,263.88	64.60
	For Up To 25, Add	315.97	
	For >25 To 50, Add	189.58	
	For >50 To 100, Add	94.79	
26 25 16 00-0007	LF 2,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	1,541.72	64.60
	For Up To 25, Add	385.43	
	For >25 To 50, Add	231.26	
	For >50 To 100, Add	115.63	
26 25 16 00-0008	LF 3,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	2,105.53	153.82
	For Up To 25, Add	526.38	
	For >25 To 50, Add	315.83	
	For >50 To 100, Add	157.91	
26 25 16 00-0009	LF 4,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	2,900.82	153.82
	For Up To 25, Add	725.21	
	For >25 To 50, Add	435.12	
	For >50 To 100, Add	217.56	
26 25 16 00-0010	LF 5,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	3,432.36	153.82
	For Up To 25, Add	858.09	
	For >25 To 50, Add	514.65	
	For >50 To 100, Add	257.43	
26 25 16 00-0011	LF 6,000 Amperes, 600 Volt, 3 Phase, 3 Wire Copper Conductors, Bus Duct With Supports .....	4,220.75	153.82
	For Up To 25, Add	1,055.19	
	For >25 To 50, Add	633.11	
	For >50 To 100, Add	316.56	
<b>26 25 16 00-0012</b>	<b>277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated (26 25 16 00-0001)</b> Note: Low impedance, copper conductors.		
26 25 16 00-0013	LF 800 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	912.25	69.22
	For Up To 25, Add	228.06	
	For >25 To 50, Add	136.84	
	For >50 To 100, Add	68.42	
26 25 16 00-0014	LF 1,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	930.07	69.22
	For Up To 25, Add	232.52	
	For >25 To 50, Add	139.51	
	For >50 To 100, Add	69.76	
26 25 16 00-0015	LF 1,350 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	1,190.32	69.22
	For Up To 25, Add	297.58	
	For >25 To 50, Add	178.55	
	For >50 To 100, Add	89.27	
26 25 16 00-0016	LF 1,600 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	1,410.60	69.22
	For Up To 25, Add	352.65	
	For >25 To 50, Add	211.59	
	For >50 To 100, Add	105.80	
26 25 16 00-0017	LF 2,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	1,701.61	69.22
	For Up To 25, Add	425.40	
	For >25 To 50, Add	255.24	
	For >50 To 100, Add	127.62	
26 25 16 00-0018	LF 3,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	2,606.59	118.45
	For Up To 25, Add	651.65	
	For >25 To 50, Add	390.99	
	For >50 To 100, Add	195.49	
26 25 16 00-0019	LF 4,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	3,267.94	118.45
	For Up To 25, Add	816.99	
	For >25 To 50, Add	490.19	
	For >50 To 100, Add	245.10	

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 25</b>	<b>Enclosed Bus Assemblies</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 16 00-0020 LF 5,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	3,868.20	219.96
For Up To 25, Add	967.05	
For >25 To 50, Add	580.23	
For >50 To 100, Add	290.12	
26 25 16 00-0021 LF 6,000 Amperes, 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, Bus Duct With Supports .....	4,761.08	219.96
For Up To 25, Add	1,190.27	
For >25 To 50, Add	714.16	
For >50 To 100, Add	357.08	

## 26 27 Low-Voltage Distribution Equipment (26 20)

### 26 27 13 Electricity Metering (26 27)

#### 26 27 13 00-0001 Revenue Metering (26 27 13)

#### 26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

Note: NEMA 3R.

26 27 13 00-0003 EA 100 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass .....	311.32	99.98
26 27 13 00-0004 EA 100 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass .....	327.87	99.98
26 27 13 00-0005 EA 200 Amperes, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass .....	428.09	123.05
26 27 13 00-0006 EA 200 Amperes, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass .....	432.80	123.05
26 27 13 00-0007 EA 200 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release .....	793.52	138.44
26 27 13 00-0008 EA 320 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release .....	1,042.11	153.82
26 27 13 00-0009 EA 400 Amperes, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release .....	2,483.38	169.21
26 27 13 00-0010 EA Combination Motor And Current Transformer Cabinet, 15 To 30 Amperes, 13 Terminal, Underground, With Test Switch And Transformer, Socket Base .....	3,101.10	769.11

#### 26 27 13 00-0011 Meter Device (26 27 13 00-0001)

Note: Direct read, with 15 minute demand.

26 27 13 00-0012 EA 100 To 200 Amperes, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter .....	285.76	30.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.92	
26 27 13 00-0013 EA 200 Amperes, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter .....	780.29	30.80
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.25	

#### 26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015 EA 18" x 24" x 9", NEMA 3R, Screwed Cover, Current Transformer Enclosure .....	655.84	199.97
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#### 26 27 13 00-0016 120/240 Volt Meter Center And Main Breaker, Indoor Housing (26 27 13 00-0001)

#### 26 27 13 00-0017 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0018 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....	1,102.30	96.14
26 27 13 00-0019 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....	1,445.87	115.36
26 27 13 00-0020 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....	1,787.66	134.59
26 27 13 00-0021 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....	2,070.59	153.82
26 27 13 00-0022 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....	2,683.60	173.05
26 27 13 00-0023 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....	2,900.48	192.28
26 27 13 00-0024 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 125 Amperes Max .....	3,387.81	230.73

#### 26 27 13 00-0025 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max., 2 Pole (26 27 13 00-0016)

26 27 13 00-0026 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....	1,994.48	96.14
26 27 13 00-0027 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....	2,621.77	115.36
26 27 13 00-0028 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....	3,608.72	153.82
26 27 13 00-0029 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....	4,004.02	173.05
26 27 13 00-0030 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 200 Amperes Max .....	5,023.86	192.28

#### 26 27 13 00-0031 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0016)

26 27 13 00-0032 EA 3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,682.39	134.59
26 27 13 00-0033 EA 4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,199.06	153.82
26 27 13 00-0034 EA 5 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,683.60	173.05
26 27 13 00-0035 EA 6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,150.29	192.28
26 27 13 00-0036 EA 7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,956.02	211.51
26 27 13 00-0037 EA 8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,155.09	230.73
26 27 13 00-0038 EA 10 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,141.99	269.19

#### 26 27 13 00-0039 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole (26 27 13 00-0016)

26 27 13 00-0040 EA 3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,570.99	134.59
26 27 13 00-0041 EA 4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,358.89	153.82
26 27 13 00-0042 EA 6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,720.52	192.28
26 27 13 00-0043 EA 7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,062.32	211.51
26 27 13 00-0044 EA 8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	6,456.84	230.73





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Distribution Equipment</b>	<b>26 27</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 13 00-0045</b>	<b>120/208 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small></b>	
<b>26 27 13 00-0046</b>	<b>800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max., 2 Pole <small>(26 27 13 00-0045)</small></b>	
26 27 13 00-0047 EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....	1,204.99
26 27 13 00-0048 EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....	1,568.19
26 27 13 00-0049 EA	5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....	1,929.62
26 27 13 00-0050 EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....	2,237.51
26 27 13 00-0051 EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....	2,739.89
26 27 13 00-0052 EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....	2,956.79
26 27 13 00-0053 EA	10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 125 Amperes Max .....	3,640.40
<b>26 27 13 00-0054</b>	<b>1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small></b>	
26 27 13 00-0055 EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,104.31
26 27 13 00-0056 EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,767.29
26 27 13 00-0057 EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,986.18
26 27 13 00-0058 EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	4,381.50
26 27 13 00-0059 EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	5,294.33
<b>26 27 13 00-0060</b>	<b>800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small></b>	
26 27 13 00-0061 EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,785.11
26 27 13 00-0062 EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,308.92
26 27 13 00-0063 EA	5 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,846.99
26 27 13 00-0064 EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,313.70
26 27 13 00-0065 EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,155.15
26 27 13 00-0066 EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,354.14
26 27 13 00-0067 EA	10 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,412.48
<b>26 27 13 00-0068</b>	<b>1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0045)</small></b>	
26 27 13 00-0069 EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,698.70
26 27 13 00-0070 EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,540.12
26 27 13 00-0071 EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,062.36
26 27 13 00-0072 EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,297.07
26 27 13 00-0073 EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	6,709.48
<b>26 27 13 00-0074</b>	<b>120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small></b>	
<b>26 27 13 00-0075</b>	<b>800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small></b>	
26 27 13 00-0076 EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,102.30
26 27 13 00-0077 EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,445.87
26 27 13 00-0078 EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,070.59
26 27 13 00-0079 EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,683.60
26 27 13 00-0080 EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,310.88
<b>26 27 13 00-0081</b>	<b>1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small></b>	
26 27 13 00-0082 EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,994.47
26 27 13 00-0083 EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,621.76
26 27 13 00-0084 EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,787.13
26 27 13 00-0085 EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	4,182.45
26 27 13 00-0086 EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	5,023.86
<b>26 27 13 00-0087</b>	<b>800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small></b>	
26 27 13 00-0088 EA	3 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,682.39
26 27 13 00-0089 EA	4 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,199.06
26 27 13 00-0090 EA	6 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,150.29
26 27 13 00-0091 EA	7 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,956.02
26 27 13 00-0092 EA	8 Meters And Main, 120/240 Volt, 800 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,155.09
<b>26 27 13 00-0093</b>	<b>1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0074)</small></b>	
26 27 13 00-0094 EA	3 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,571.01
26 27 13 00-0095 EA	4 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,358.89
26 27 13 00-0096 EA	6 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,720.52
26 27 13 00-0097 EA	7 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,062.32
26 27 13 00-0098 EA	8 Meters And Main, 120/240 Volt, 1,200 Amperes Bus, 4 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	6,456.90

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 27</b>	<b>Low-Voltage Distribution Equipment</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 27 13 00-0099		120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0100		800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0101	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,204.99	115.36
26 27 13 00-0102	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	1,568.19	134.59
26 27 13 00-0103	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,237.51	173.05
26 27 13 00-0104	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,918.33	192.28
26 27 13 00-0105	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,313.66	211.51
26 27 13 00-0106		1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0107	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,104.30	115.36
26 27 13 00-0108	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	2,767.27	134.59
26 27 13 00-0109	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	3,807.74	173.05
26 27 13 00-0110	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	4,203.06	192.28
26 27 13 00-0111	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 10,000 Amperes Interrupting Capacity .....	5,294.29	211.51
26 27 13 00-0112		800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0113	EA	3 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	1,785.09	153.82
26 27 13 00-0114	EA	4 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,308.89	173.05
26 27 13 00-0115	EA	6 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,313.66	211.51
26 27 13 00-0116	EA	7 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,155.09	230.73
26 27 13 00-0117	EA	8 Meters And Main, 120/208 Volt, 800 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	4,354.14	249.96
26 27 13 00-0118		1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity, 2 Pole <small>(26 27 13 00-0099)</small>		
26 27 13 00-0119	EA	3 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	2,698.68	153.82
26 27 13 00-0120	EA	4 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	3,540.09	173.05
26 27 13 00-0121	EA	6 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,062.32	211.51
26 27 13 00-0122	EA	7 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	5,297.07	230.73
26 27 13 00-0123	EA	8 Meters And Main, 120/208 Volt, 1,200 Amperes Bus, 5 Jaw Sockets, 42,000 Amperes Interrupting Capacity .....	6,709.48	249.96
26 27 13 00-0124		Watt/Hour Meters <small>(26 27 13)</small>		
26 27 13 00-0125	EA	Single Phase M-90 Meter, Socket, NEMA 3R Enclosure .....	1,195.89	92.29
26 27 13 00-0126	EA	Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure .....	3,568.48	184.58
26 27 13 00-0127	EA	Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure .....	1,923.11	138.44
26 27 13 00-0128	EA	Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure .....	2,330.63	138.44
26 27 13 00-0129	EA	Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure .....	1,982.97	138.44
26 27 13 00-0130	EA	C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure .....	1,330.81	127.67
26 27 13 00-0131	EA	P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure .....	2,280.38	230.73
26 27 13 00-0132		Watt/Hour Meter Systems <small>(26 27 13)</small> Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
26 27 13 00-0133		Watt/Hour Meter System Without Main Breaker <small>(26 27 13 00-0132)</small>		
26 27 13 00-0134	EA	400 Amperes System; 200 Amperes M-90 Meter And Enclosure .....	5,982.84	923.08
26 27 13 00-0135	EA	600 To 800 Amperes System; 200 Amperes M-90 Meter And Enclosure .....	6,944.56	923.08
26 27 13 00-0136		Watt/Hour Meter System With Main Breaker <small>(26 27 13 00-0132)</small>		
26 27 13 00-0137	EA	400 Amperes System; 400 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure .....	10,205.31	923.08
26 27 13 00-0138	EA	600 Amperes System; 600 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure .....	12,302.40	923.08
26 27 13 00-0139	EA	800 Amperes System; 800 Amperes Main Breaker, 200 Amperes M-90 Meter And Enclosure .....	13,191.77	923.08
26 27 16		<b>Electrical Cabinets and Enclosures</b> <small>(26 27)</small> Note: Can be used as enclosure or pull/junction boxes.		
26 27 16 00-0001		NEMA 1 Enclosures, Lockable <small>(26 27 16)</small>		
26 27 16 00-0002		Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0001)</small>		
26 27 16 00-0003		4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures <small>(26 27 16 00-0002)</small>		
26 27 16 00-0004	EA	6" x 4" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	93.57	30.76
26 27 16 00-0005	EA	6" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	104.63	33.84
26 27 16 00-0006	EA	8" x 6" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	115.78	36.91
26 27 16 00-0007	EA	8" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	135.16	43.07
26 27 16 00-0008	EA	10" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	146.86	46.15
26 27 16 00-0009	EA	10" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	159.31	49.23
26 27 16 00-0010	EA	12" x 8" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	158.93	49.23
26 27 16 00-0011	EA	12" x 10" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	171.65	52.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0012 EA 12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	184.94	55.38
26 27 16 00-0013 EA 16" x 12" x 4", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	240.78	73.84
26 27 16 00-0014 EA 16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	291.92	89.22
26 27 16 00-0015 EA 18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	277.97	86.14
<b>26 27 16 00-0016 6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)</b>		
26 27 16 00-0017 EA 6" x 6" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	116.53	36.91
26 27 16 00-0018 EA 8" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	140.67	43.07
26 27 16 00-0019 EA 10" x 8" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	168.33	52.30
26 27 16 00-0020 EA 10" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	181.34	55.38
26 27 16 00-0021 EA 12" x 10" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	194.58	58.45
26 27 16 00-0022 EA 12" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	208.36	61.53
26 27 16 00-0023 EA 16" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	265.45	79.99
26 27 16 00-0024 EA 16" x 16" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	322.51	98.44
26 27 16 00-0025 EA 18" x 12" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	311.22	95.37
26 27 16 00-0026 EA 18" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	404.77	123.05
26 27 16 00-0027 EA 24" x 18" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	511.89	141.52
26 27 16 00-0028 EA 24" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	581.27	153.82
26 27 16 00-0029 EA 30" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	643.30	163.05
26 27 16 00-0030 EA 36" x 24" x 6", Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	697.64	169.21
26 27 16 00-0031 EA 24-1/2" x 12-1/2" x 6-1/2", Hinged Cover, Galvanized Steel NEMA 1 Enclosure (Control Products MH3803L) .....	481.16	123.05
<b>26 27 16 00-0032 Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)</b>		
<b>26 27 16 00-0033 3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)</b>		
26 27 16 00-0034 EA 4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	64.62	21.54
26 27 16 00-0035 EA 6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	92.36	30.76
26 27 16 00-0036 EA 8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	102.79	33.84
<b>26 27 16 00-0037 4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)</b>		
26 27 16 00-0038 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	72.51	24.61
26 27 16 00-0039 EA 6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	90.02	30.76
26 27 16 00-0040 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	100.30	33.84
26 27 16 00-0041 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	110.73	36.91
26 27 16 00-0042 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	129.21	43.07
26 27 16 00-0043 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	140.05	46.15
26 27 16 00-0044 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	151.38	49.23
26 27 16 00-0045 EA 12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	151.02	49.23
26 27 16 00-0046 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	162.78	52.30
26 27 16 00-0047 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	174.84	55.38
26 27 16 00-0048 EA 16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	229.38	73.84
26 27 16 00-0049 EA 16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	284.63	92.29
26 27 16 00-0050 EA 18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	264.35	86.14
26 27 16 00-0051 EA 18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	342.02	110.75
26 27 16 00-0052 EA 24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	483.42	138.44
<b>26 27 16 00-0053 6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)</b>		
26 27 16 00-0054 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	111.25	36.91
26 27 16 00-0055 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	122.37	39.99
26 27 16 00-0056 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	141.07	46.15
26 27 16 00-0057 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	160.12	52.30
26 27 16 00-0058 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	172.02	55.38
26 27 16 00-0059 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	184.05	58.45
26 27 16 00-0060 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	196.49	61.53
26 27 16 00-0061 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	252.17	79.99
26 27 16 00-0062 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	309.91	98.44
26 27 16 00-0063 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	295.42	95.37
26 27 16 00-0064 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	383.66	123.05
26 27 16 00-0065 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	473.27	141.52
26 27 16 00-0066 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	538.36	153.82
26 27 16 00-0067 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	579.81	163.05
26 27 16 00-0068 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	629.79	169.21
<b>26 27 16 00-0069 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)</b>		
26 27 16 00-0070 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	160.12	52.30
26 27 16 00-0071 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	216.67	67.68
26 27 16 00-0072 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	275.48	86.14
26 27 16 00-0073 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	342.29	107.68
26 27 16 00-0074 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	327.96	104.60
26 27 16 00-0075 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	406.09	129.21
26 27 16 00-0076 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	454.61	147.67
26 27 16 00-0077 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	520.35	156.89
26 27 16 00-0078 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	593.46	169.21
26 27 16 00-0079 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	630.68	178.43
26 27 16 00-0080 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure .....	661.20	184.58

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 27</b>	<b>Low-Voltage Distribution Equipment</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0081 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	676.34	184.58
<b>26 27 16 00-0082 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)</b>		
26 27 16 00-0083 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	371.33	116.90
26 27 16 00-0084 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	487.21	150.74
26 27 16 00-0085 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	496.72	159.98
26 27 16 00-0086 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	627.37	172.28
26 27 16 00-0087 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	718.37	190.74
26 27 16 00-0088 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	790.10	196.89
26 27 16 00-0089 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	840.94	206.12
<b>26 27 16 00-0090 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0032)</b>		
26 27 16 00-0091 EA 18" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	537.72	166.13
26 27 16 00-0092 EA 24" x 12" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	540.35	175.36
26 27 16 00-0093 EA 24" x 18" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	690.42	190.74
26 27 16 00-0094 EA 24" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	784.63	209.19
26 27 16 00-0095 EA 30" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	872.57	218.43
26 27 16 00-0096 EA 36" x 24" x 12", Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	919.01	227.66
<b>26 27 16 00-0097 NEMA 1 Enclosures For Up To 6 Boards, Lockable (26 27 16)</b>		
<b>26 27 16 00-0098 4.5" Depth, Hinged Cover, Powder Coated Steel, NEMA 1 Enclosures (26 27 16 00-0097)</b>		
26 27 16 00-0099 EA 24" High x 18" Wide x 4.5" Deep, 18 Gauge, Powder Coated Steel, NEMA 1 Enclosure (RS2 Technologies NCL-12).....	1,283.73	135.37
<b>26 27 16 00-0100 NEMA 12 Enclosures, Lockable (26 27 16)</b>		
Note: Dust-tight enclosures.		
<b>26 27 16 00-0101 Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)</b>		
<b>26 27 16 00-0102 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)</b>		
26 27 16 00-0103 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	124.53	24.61
26 27 16 00-0104 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	162.97	33.84
26 27 16 00-0105 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	202.16	43.07
26 27 16 00-0106 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	218.64	46.15
26 27 16 00-0107 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	244.29	49.23
26 27 16 00-0108 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	262.83	52.30
<b>26 27 16 00-0109 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0101)</b>		
26 27 16 00-0110 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	180.63	36.91
26 27 16 00-0111 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	198.71	39.99
<b>26 27 16 00-0112 Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0100)</b>		
<b>26 27 16 00-0113 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)</b>		
26 27 16 00-0114 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	251.08	24.61
26 27 16 00-0115 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	302.42	33.84
26 27 16 00-0116 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	341.60	36.91
26 27 16 00-0117 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	391.07	43.07
26 27 16 00-0118 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	402.75	46.15
26 27 16 00-0119 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	474.14	49.23
26 27 16 00-0120 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	508.95	52.30
26 27 16 00-0121 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	577.95	55.38
<b>26 27 16 00-0122 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)</b>		
26 27 16 00-0123 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	366.97	36.91
26 27 16 00-0124 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	414.35	39.99
26 27 16 00-0125 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	452.38	46.15
26 27 16 00-0126 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	535.29	55.38
26 27 16 00-0127 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	581.71	61.53
26 27 16 00-0128 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	806.25	79.99
26 27 16 00-0129 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,249.14	123.05
26 27 16 00-0130 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,630.57	141.52
26 27 16 00-0131 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,836.74	153.82
<b>26 27 16 00-0132 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0112)</b>		
26 27 16 00-0133 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,702.90	156.89
26 27 16 00-0134 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	1,959.17	169.21
26 27 16 00-0135 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,151.39	178.43
26 27 16 00-0136 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,368.52	184.58
26 27 16 00-0137 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	2,336.64	184.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0138 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0100)</small>		
26 27 16 00-0139 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0140 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	7,356.03	249.96
26 27 16 00-0141 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0142 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	7,432.91	276.88
26 27 16 00-0143 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	8,521.34	296.11
26 27 16 00-0144 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	9,809.63	369.17
26 27 16 00-0145 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	10,958.91	435.32
26 27 16 00-0146 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures <small>(26 27 16 00-0138)</small>		
26 27 16 00-0147 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	7,960.43	435.32
26 27 16 00-0148 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	8,868.52	461.46
26 27 16 00-0149 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	10,065.61	492.23
26 27 16 00-0150 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure .....	11,095.79	492.23
26 27 16 00-0151 NEMA 3 Enclosures, Lockable <small>(26 27 16)</small> Note: Can be used underground or encased in concrete.		
26 27 16 00-0152 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0153 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	349.91	107.68
26 27 16 00-0154 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0155 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	371.20	107.68
26 27 16 00-0156 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	459.51	111.52
26 27 16 00-0157 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	474.00	111.52
26 27 16 00-0158 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	581.43	115.36
26 27 16 00-0159 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0160 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	455.59	111.52
26 27 16 00-0161 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	493.48	111.52
26 27 16 00-0162 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	513.90	115.36
26 27 16 00-0163 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	630.28	115.36
26 27 16 00-0164 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	690.73	123.05
26 27 16 00-0165 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	742.53	130.75
26 27 16 00-0166 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	770.21	130.75
26 27 16 00-0167 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	904.07	134.59
26 27 16 00-0168 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	976.51	138.44
26 27 16 00-0169 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,316.73	153.82
26 27 16 00-0170 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0171 EA 6" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	664.19	119.21
26 27 16 00-0172 EA 8" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	828.17	134.59
26 27 16 00-0173 EA 8" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	959.48	138.44
26 27 16 00-0174 EA 10" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,096.02	142.29
26 27 16 00-0175 EA 10" x 10" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,161.31	142.29
26 27 16 00-0176 EA 12" x 8" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,316.38	153.82
26 27 16 00-0177 EA 12" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,519.92	173.05
26 27 16 00-0178 EA 16" x 6" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,433.50	165.36
26 27 16 00-0179 EA 18" x 12" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	2,779.25	307.65
26 27 16 00-0180 EA 18" x 18" x 6", Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	4,731.75	384.55
26 27 16 00-0181 8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0182 EA 8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,173.67	146.13
26 27 16 00-0183 EA 12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,749.55	192.28
26 27 16 00-0184 EA 12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,776.22	192.28
26 27 16 00-0185 EA 16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	2,422.04	288.41
26 27 16 00-0186 EA 18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	3,149.62	307.65
26 27 16 00-0187 EA 24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	7,856.80	538.38
26 27 16 00-0188 10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		
26 27 16 00-0189 EA 18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	4,185.30	384.55
26 27 16 00-0190 12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures <small>(26 27 16 00-0151)</small>		

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 27</b>	<b>Low-Voltage Distribution Equipment</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0191 EA 18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	6,364.20	461.46
26 27 16 00-0192 EA 24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	5,258.23	423.01
<b>26 27 16 00-0193 NEMA 3R Enclosures, Lockable (26 27 16)</b> Note: Rain-light enclosures.		
<b>26 27 16 00-0194 Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)</b>		
<b>26 27 16 00-0195 4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0196 EA 6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	122.73	30.76
26 27 16 00-0197 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	135.47	33.84
26 27 16 00-0198 EA 8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	196.94	36.91
<b>26 27 16 00-0199 6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0200 EA 8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	247.81	46.15
26 27 16 00-0201 EA 10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	277.12	52.30
26 27 16 00-0202 EA 12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	324.37	58.45
26 27 16 00-0203 EA 12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	350.21	61.53
26 27 16 00-0204 EA 16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	455.94	79.99
26 27 16 00-0205 EA 16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	545.98	98.44
26 27 16 00-0206 EA 18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	626.51	123.05
<b>26 27 16 00-0207 8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0208 EA 24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	943.39	156.89
26 27 16 00-0209 EA 24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,044.98	169.21
26 27 16 00-0210 EA 30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,173.07	178.43
26 27 16 00-0211 EA 30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,232.98	184.58
<b>26 27 16 00-0212 10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0213 EA 12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,168.74	190.74
26 27 16 00-0214 EA 12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,320.23	215.35
26 27 16 00-0215 EA 12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,461.71	238.43
26 27 16 00-0216 EA 12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,610.11	263.04
26 27 16 00-0217 EA 12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,753.12	286.11
26 27 16 00-0218 EA 18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	768.07	150.74
26 27 16 00-0219 EA 24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,168.74	190.74
26 27 16 00-0220 EA 30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,376.02	196.89
26 27 16 00-0221 EA 36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,732.73	215.35
<b>26 27 16 00-0222 12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0194)</b>		
26 27 16 00-0223 EA 12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,124.72	152.29
26 27 16 00-0224 EA 12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,261.34	170.74
26 27 16 00-0225 EA 12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,396.41	189.20
26 27 16 00-0226 EA 12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,544.15	209.19
26 27 16 00-0227 EA 12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,680.76	227.66
26 27 16 00-0228 EA 18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	840.38	113.83
26 27 16 00-0229 EA 18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,124.72	152.29
26 27 16 00-0230 EA 18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,261.34	170.74
26 27 16 00-0231 EA 18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,484.30	199.97
26 27 16 00-0232 EA 18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,680.76	227.66
26 27 16 00-0233 EA 30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,599.68	224.58
26 27 16 00-0234 EA 36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,680.76	227.66
26 27 16 00-0235 EA 36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,768.85	233.81
26 27 16 00-0236 EA 36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	1,966.47	246.12
26 27 16 00-0237 EA 42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	2,130.51	258.42
<b>26 27 16 00-0238 Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0193)</b>		
<b>26 27 16 00-0239 4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0240 EA 4" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	87.31	24.61
26 27 16 00-0241 EA 6" x 4" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	105.93	30.76
26 27 16 00-0242 EA 6" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	116.91	33.84
26 27 16 00-0243 EA 8" x 6" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	129.40	36.91
26 27 16 00-0244 EA 8" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	150.35	43.07
26 27 16 00-0245 EA 10" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	163.56	46.15
26 27 16 00-0246 EA 10" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	177.83	49.23
26 27 16 00-0247 EA 12" x 8" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	177.12	49.23
26 27 16 00-0248 EA 12" x 10" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	193.04	52.30
26 27 16 00-0249 EA 12" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	207.31	55.38
26 27 16 00-0250 EA 18" x 12" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	314.14	86.14
26 27 16 00-0251 EA 18" x 18" x 4", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	417.46	110.75
<b>26 27 16 00-0252 6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0253 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	122.36	36.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0254 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	165.46	46.15
26 27 16 00-0255 EA 10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	187.46	52.30
26 27 16 00-0256 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	202.70	55.38
26 27 16 00-0257 EA 12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	201.65	55.38
26 27 16 00-0258 EA 12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	217.75	58.45
26 27 16 00-0259 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	233.97	61.53
26 27 16 00-0260 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	305.24	79.99
26 27 16 00-0261 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	352.60	95.37
26 27 16 00-0262 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	468.97	123.05
26 27 16 00-0263 EA 24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	490.95	132.29
26 27 16 00-0264 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	557.66	141.52
26 27 16 00-0265 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	626.14	153.82
<b>26 27 16 00-0266 8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0267 EA 12" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	261.47	67.68
26 27 16 00-0268 EA 18" x 12" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	381.03	104.60
26 27 16 00-0269 EA 18" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	518.59	135.37
26 27 16 00-0270 EA 24" x 18" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	617.17	156.89
26 27 16 00-0271 EA 24" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	695.31	169.21
26 27 16 00-0272 EA 30" x 24" x 8", Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	769.04	178.43
<b>26 27 16 00-0273 10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0274 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	572.63	150.74
26 27 16 00-0275 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	766.25	190.74
26 27 16 00-0276 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	836.25	196.89
<b>26 27 16 00-0277 12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0238)</b>		
26 27 16 00-0278 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	845.95	209.19
26 27 16 00-0279 EA 30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	1,155.51	227.66
26 27 16 00-0280 EA 36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	1,193.70	233.81
26 27 16 00-0281 EA 36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	1,386.32	246.12
<b>26 27 16 00-0282 NEMA 4 Enclosures, Lockable (26 27 16)</b>		
Note: Water-tight enclosures.		
<b>26 27 16 00-0283 Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)</b>		
26 27 16 00-0284 EA 4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	129.43	21.54
26 27 16 00-0285 EA 6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	151.64	26.15
26 27 16 00-0286 EA 8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	189.92	33.84
26 27 16 00-0287 EA 6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	181.33	33.84
26 27 16 00-0288 EA 10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	242.70	46.15
26 27 16 00-0289 EA 12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	301.57	55.38
26 27 16 00-0290 EA 10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	279.02	52.30
26 27 16 00-0291 EA 12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	325.50	61.53
26 27 16 00-0292 EA 14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	382.39	70.75
26 27 16 00-0293 EA 16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	464.82	89.22
<b>26 27 16 00-0294 Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0282)</b>		
26 27 16 00-0295 EA 4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure .....	119.45	21.54
26 27 16 00-0296 EA 6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure .....	171.38	33.84
<b>26 27 16 00-0297 Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0282)</b>		
26 27 16 00-0298 EA 6" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....	150.95	29.53
26 27 16 00-0299 EA 8" x 6" x 4", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....	160.60	32.00
26 27 16 00-0300 EA 10" x 8" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....	198.11	41.84
26 27 16 00-0301 EA 12" x 10" x 6", Screw Cover, Fiberglass NEMA 4 Or 4X Enclosure .....	230.81	46.15
26 27 16 00-0302 EA 14" x 12" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure .....	297.73	58.45
26 27 16 00-0303 EA 16" x 14" x 8", Screw Cover, Fiberglass NEMA 4 Enclosure .....	348.25	69.22
26 27 16 00-0304 EA 18" x 16" x 10", Screw Cover, Fiberglass NEMA 4 Enclosure .....	495.59	110.75
<b>26 27 16 00-0305 NEMA 4X Enclosures, Lockable (26 27 16)</b>		
Note: Water-tight enclosures.		
<b>26 27 16 00-0306 Clamp Cover, Aluminum NEMA 4X Enclosures (26 27 16 00-0305)</b>		
26 27 16 00-0307 EA 6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure .....	250.82	24.61
26 27 16 00-0308 EA 6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure .....	297.50	33.84
26 27 16 00-0309 EA 10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure .....	378.30	46.15
26 27 16 00-0310 EA 12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure .....	459.02	55.38
26 27 16 00-0311 EA 14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure .....	566.85	70.75
26 27 16 00-0312 EA 16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure .....	671.49	89.22
<b>26 27 16 00-0313 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures (26 27 16 00-0305)</b>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0314 EA 4" x 4" x 3", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	344.38	21.54
For 316 Stainless Steel, Add	46.49	
26 27 16 00-0315 EA 6" x 4" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	448.70	30.76
For 316 Stainless Steel, Add	59.49	
26 27 16 00-0316 EA 6" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	508.16	33.84
For 316 Stainless Steel, Add	67.77	
26 27 16 00-0317 EA 8" x 6" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	581.08	36.91
For 316 Stainless Steel, Add	78.21	
26 27 16 00-0318 EA 10" x 8" x 4", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	713.89	46.15
For 316 Stainless Steel, Add	95.76	
26 27 16 00-0319 EA 12" x 10" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	1,002.33	58.45
For 316 Stainless Steel, Add	136.99	
26 27 16 00-0320 EA 14" x 12" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	1,248.98	70.75
For 316 Stainless Steel, Add	171.53	
26 27 16 00-0321 EA 16" x 14" x 6", Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	1,506.79	89.22
For 316 Stainless Steel, Add	205.40	
<b>26 27 16 00-0322 Screw Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)</b>		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0323 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	166.69	33.84
26 27 16 00-0324 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	187.34	36.91
26 27 16 00-0325 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	214.62	43.07
26 27 16 00-0326 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	233.10	46.15
26 27 16 00-0327 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	269.00	52.30
26 27 16 00-0328 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	253.88	52.30
26 27 16 00-0329 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	295.12	58.45
26 27 16 00-0330 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	369.15	70.75
26 27 16 00-0331 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	473.41	96.91
26 27 16 00-0332 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	613.81	139.51
26 27 16 00-0333 EA 6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	178.58	33.84
26 27 16 00-0334 EA 8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	201.39	36.91
26 27 16 00-0335 EA 8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	229.74	43.07
26 27 16 00-0336 EA 10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	251.45	46.15
26 27 16 00-0337 EA 12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	288.44	52.30
26 27 16 00-0338 EA 10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	272.25	52.30
26 27 16 00-0339 EA 12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	320.03	58.45
26 27 16 00-0340 EA 14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	382.12	70.75
26 27 16 00-0341 EA 16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	500.42	96.91
26 27 16 00-0342 EA 18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	642.96	139.51
<b>26 27 16 00-0343 Hinged Cover, Polycarbonate NEMA 4X Enclosures (26 27 16 00-0305)</b>		
Note: NEMA 3R, 4, 4X and 12 rated.		
26 27 16 00-0344 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	200.18	33.84
26 27 16 00-0345 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	214.35	36.91
26 27 16 00-0346 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	243.77	43.07
26 27 16 00-0347 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	263.34	46.15
26 27 16 00-0348 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	311.13	52.30
26 27 16 00-0349 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	287.37	52.30
26 27 16 00-0350 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	351.35	58.45
26 27 16 00-0351 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	417.77	70.75
26 27 16 00-0352 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	515.54	96.91
26 27 16 00-0353 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	668.88	139.51
26 27 16 00-0354 EA 6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	208.82	33.84
26 27 16 00-0355 EA 8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	230.54	36.91
26 27 16 00-0356 EA 8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	258.89	43.07
26 27 16 00-0357 EA 10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	279.53	46.15
26 27 16 00-0358 EA 12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	332.74	52.30
26 27 16 00-0359 EA 10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	305.72	52.30
26 27 16 00-0360 EA 12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	374.04	58.45
26 27 16 00-0361 EA 14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	428.57	70.75
26 27 16 00-0362 EA 16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	551.17	96.91
26 27 16 00-0363 EA 18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	706.70	139.51
<b>26 27 16 00-0364 NEMA 7/9 Enclosures, Lockable (26 27 16)</b>		
Note: Nominal inside dimensions.		
<b>26 27 16 00-0365 4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)</b>		
26 27 16 00-0366 EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,384.15	173.05
For Mounting Pan, Add	54.95	
26 27 16 00-0367 EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,128.62	184.58
For Mounting Pan, Add	102.39	
26 27 16 00-0368 EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,124.24	207.66
For Mounting Pan, Add	141.19	
<b>26 27 16 00-0369 6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures (26 27 16 00-0364)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0370 EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	1,901.24 71.79	207.66
26 27 16 00-0371 EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,446.92 141.19	213.43
26 27 16 00-0372 EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,510.20 108.00	230.73
26 27 16 00-0373 EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,572.88 126.36	230.73
26 27 16 00-0374 EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,617.48 165.78	288.41
26 27 16 00-0375 EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,403.79 103.51	259.57
26 27 16 00-0376 EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,531.67 154.88	288.41
26 27 16 00-0377 EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,494.80 208.37	519.15
26 27 16 00-0378 EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	4,327.50 202.88	346.09
26 27 16 00-0379 EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,744.88 186.26	576.83
26 27 16 00-0380 EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,824.09 302.80	576.83
<b>26 27 16 00-0381 8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>		
26 27 16 00-0382 EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,924.72 108.00	259.57
26 27 16 00-0383 EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	2,944.20 126.36	259.57
26 27 16 00-0384 EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,315.18 165.78	259.57
26 27 16 00-0385 EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	3,673.83 103.51	288.41
26 27 16 00-0386 EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,394.31 154.88	519.15
26 27 16 00-0387 EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,565.67 208.37	634.52
26 27 16 00-0388 EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,179.06 313.37	749.88
26 27 16 00-0389 EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	5,946.07 202.88	634.52
26 27 16 00-0390 EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,098.74 186.26	634.52
26 27 16 00-0391 EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	8,950.39 279.20	692.20
26 27 16 00-0392 EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	7,426.35 302.80	634.52
26 27 16 00-0393 EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,836.48 442.78	692.20
26 27 16 00-0394 EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,771.67 590.29	692.20
26 27 16 00-0395 EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	15,089.41 737.75	922.93
26 27 16 00-0396 EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,509.83 685.98	749.88
26 27 16 00-0397 EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	20,743.03 939.10	1,153.66
<b>26 27 16 00-0398 10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>		
26 27 16 00-0399 EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,571.79 313.37	749.88
26 27 16 00-0400 EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	9,732.63 279.20	692.20
26 27 16 00-0401 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	10,601.02 442.78	749.88
26 27 16 00-0402 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	13,316.29 737.75	807.56
26 27 16 00-0403 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	11,832.94 685.98	807.56
26 27 16 00-0404 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	22,542.20 939.10	1,153.66
<b>26 27 16 00-0405 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0364)</small>		
26 27 16 00-0406 EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure <i>For Mounting Pan, Add</i>	6,705.74 208.37	634.52

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 27</b>	<b>Low-Voltage Distribution Equipment</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 16 00-0407</b>	<b>Breaker Enclosures</b> <small>(26 27 16)</small>	
	See CSI section 26 24 16 00-0001 for lighting and power panel boards.	
<b>26 27 16 00-0408</b>	<b>15 To 100 Amperes, F-Frame Breaker Enclosures</b> <small>(26 27 16 00-0407)</small>	
26 27 16 00-0409 EA NEMA 1, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	452.36	123.05
26 27 16 00-0410 EA NEMA 3R, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure .....	791.72	123.05
26 27 16 00-0411 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,899.91	169.21
26 27 16 00-0412 EA NEMA 7, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	2,558.11	184.58
26 27 16 00-0413 EA NEMA 9, Cast Aluminum, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	1,884.84	184.58
26 27 16 00-0414 EA NEMA 12, Painted Steel, 15 To 100 Amperes, F-Frame Breaker Enclosure.....	703.98	169.21
<b>26 27 16 00-0415</b>	<b>15 To 250 Amperes, H Or J-Frame Breaker Enclosures</b> <small>(26 27 16 00-0407)</small>	
26 27 16 00-0416 EA NEMA 1, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	711.59	169.21
26 27 16 00-0417 EA NEMA 3R, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure .....	1,255.04	169.21
26 27 16 00-0418 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure .....	4,146.22	215.35
26 27 16 00-0419 EA NEMA 12, Painted Steel, 15 To 250 Amperes, H Or J-Frame Breaker Enclosure.....	1,065.76	215.35
<b>26 27 16 00-0420</b>	<b>125 To 400 Amperes, L-Frame Breaker Enclosures</b> <small>(26 27 16 00-0407)</small>	
26 27 16 00-0421 EA NEMA 1, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure .....	1,142.73	338.41
26 27 16 00-0422 EA NEMA 3R, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure .....	2,482.85	338.41
26 27 16 00-0423 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure.....	7,051.83	430.70
26 27 16 00-0424 EA NEMA 12, Painted Steel, 125 To 400 Amperes, L-Frame Breaker Enclosure .....	1,846.61	430.70
<b>26 27 16 00-0425</b>	<b>300 To 800 Amperes, M-Frame Breaker Enclosures</b> <small>(26 27 16 00-0407)</small>	
26 27 16 00-0426 EA NEMA 1, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure .....	2,231.70	646.05
26 27 16 00-0427 EA NEMA 3R, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure .....	3,648.08	646.05
26 27 16 00-0428 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure.....	12,709.54	830.64
26 27 16 00-0429 EA NEMA 12, Painted Steel, 300 To 800 Amperes, M-Frame Breaker Enclosure .....	7,027.66	830.64
<b>26 27 16 00-0430</b>	<b>250 To 1,200 Amperes, P-Frame Breaker Enclosures</b> <small>(26 27 16 00-0407)</small>	
26 27 16 00-0431 EA NEMA 1, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure.....	2,667.09	646.05
26 27 16 00-0432 EA NEMA 3R, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure .....	4,336.63	646.05
26 27 16 00-0433 EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amperes, P-Frame Breaker Enclosure .....	8,751.76	830.64
<b>26 27 16 00-0434</b>	<b>Legend Plates</b> <small>(26 27 16)</small>	
26 27 16 00-0435 EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters .....	24.15	7.69
26 27 16 00-0436 EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters .....	32.02	7.69
<b>26 27 19</b>	<b>Multi-Outlet Assemblies</b> <small>(26 27)</small>	
<b>26 27 19 00-0001</b>	<b>Surface Metal Raceway, Preamsembled With Outlets</b> <small>(26 27 19)</small>	
	Note: Exposed installations on masonry, concrete block or drywall walls or ceilings. (Wiremold or approved equal).	
26 27 19 00-0002 LF Single Circuit, Plugmold #2000, 3' With Outlets 6" On Center.....	34.64	11.23
For Concrete Or Masonry Surface, Add	1.12	
26 27 19 00-0003 LF Single Circuit, Plugmold #2000, 6' With Outlets 6" On Center.....	26.65	7.99
For Concrete Or Masonry Surface, Add	0.81	
26 27 19 00-0004 LF Single Circuit, Plugmold #2000, 6' With Outlets 9" On Center.....	25.36	8.46
For Concrete Or Masonry Surface, Add	0.84	
26 27 19 00-0005 LF Single Circuit, Plugmold #2000, 6' With Outlets 12" On Center .....	27.55	7.99
For Concrete Or Masonry Surface, Add	0.81	
26 27 19 00-0006 LF Single Circuit, Plugmold #2000, 6' With Outlets 18" On Center .....	22.88	8.15
For Concrete Or Masonry Surface, Add	0.81	
26 27 19 00-0007 LF Two Circuits, Plugmold #2000, 6' With Outlets 9" On Center .....	30.53	7.99
For Concrete Or Masonry Surface, Add	0.81	
26 27 19 00-0008 LF Two Circuits, Plugmold #2000, 6' With Outlets 12" On Center .....	27.28	7.99
For Concrete Or Masonry Surface, Add	0.81	
26 27 19 00-0009 LF Two Circuits, Plugmold #2000, 6' With Outlets 18" On Center .....	29.24	7.99
For Concrete Or Masonry Surface, Add	0.81	
<b>26 27 23</b>	<b>Indoor Service Poles</b> <small>(26 27)</small>	
<b>26 27 23 00-0001</b>	<b>Communication And Power Poles</b> <small>(26 27 23)</small>	
	Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.	
<b>26 27 23 00-0002</b>	<b>Steel Communication And Power Poles</b> <small>(26 27 23 00-0001)</small>	
<b>26 27 23 00-0003</b>	<b>2-1/4" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0002)</small>	
<b>26 27 23 00-0004</b>	<b>2-1/4" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0003)</small>	
26 27 23 00-0005 EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	354.05	68.17
26 27 23 00-0006 EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	382.34	68.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0007 EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole .....	415.05	68.17
<b>26 27 23 00-0008 Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0003)</small> Note: Excludes receptacles, communication jacks and wiring.		
26 27 23 00-0009 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One Single Receptacle .....	72.53	14.06
26 27 23 00-0010 EA Add-On 2-1/4" Width Steel Cover Plate For Three Duplex Receptacles .....	63.60	14.06
26 27 23 00-0011 EA Add-On 2-1/4" Width Steel Cover Plate For Two Duplex Receptacles And One GFCI Receptacle .....	71.29	14.06
26 27 23 00-0012 EA Add-On 2-1/4" Width Steel Cover Plate For Data And A/V Modular Devices .....	54.23	14.06
26 27 23 00-0013 EA Add-On 2-1/4" Width Steel Cover Plate Radius Control Entrance End Fitting .....	45.63	14.06
<b>26 27 23 00-0014 2-3/4" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0002)</small>		
<b>26 27 23 00-0015 2-3/4" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0014)</small>		
26 27 23 00-0016 EA 2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole .....	451.05	68.17
26 27 23 00-0021 EA 2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole .....	511.84	68.17
26 27 23 00-0018 EA 2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole .....	544.65	68.17
<b>26 27 23 00-0019 Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0014)</small> Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020 EA Add-On 2-3/4" Width Steel Cover Plate For One Single Receptacle .....	50.43	14.06
26 27 23 00-0021 EA Add-On 2-3/4" Width Steel Cover Plate For One Duplex Receptacle .....	45.89	14.06
26 27 23 00-0022 EA Add-On 2-3/4" Width Steel Cover Plate For Data And A/V Modular Devices .....	49.14	14.06
<b>26 27 23 00-0023 3" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0002)</small>		
<b>26 27 23 00-0024 3" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0023)</small>		
26 27 23 00-0025 EA 3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole .....	579.87	68.17
26 27 23 00-0026 EA 3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole .....	653.05	68.17
26 27 23 00-0027 EA 3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole .....	701.28	68.17
<b>26 27 23 00-0028 Additional Cover Plates For 3" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0023)</small> Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029 EA Add-On 3" Width Steel Steel Cover Plate For One Single Receptacle .....	50.43	14.06
26 27 23 00-0030 EA Add-On 3" Width Steel Cover Plate For One Duplex Receptacle .....	45.89	14.06
26 27 23 00-0031 EA Add-On 3" Width Steel Cover Plate For Data And A/V Modular Devices .....	49.14	14.06
<b>26 27 23 00-0032 Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0001)</small>		
<b>26 27 23 00-0033 2-1/8" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0032)</small>		
<b>26 27 23 00-0034 2-1/8" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0033)</small>		
26 27 23 00-0035 EA 2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	470.09	68.17
26 27 23 00-0036 EA 2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	521.25	68.17
26 27 23 00-0037 EA 2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	578.60	68.17
<b>26 27 23 00-0038 Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0033)</small>		
26 27 23 00-0039 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One Single Receptacle .....	74.27	14.06
26 27 23 00-0040 EA Add-On 2-1/8" Width Aluminum Cover Plate For Three Duplex Receptacles .....	75.72	14.06
26 27 23 00-0041 EA Add-On 2-1/8" Width Aluminum Cover Plate For Two Duplex Receptacles And One GFCI Receptacle .....	80.52	14.06
26 27 23 00-0042 EA Add-On 2-1/8" Width Aluminum Cover Plate For Data And A/V Modular Devices .....	56.93	14.06
26 27 23 00-0043 EA Add-On 2-1/8" Width Aluminum Radius Control Entrance End Fitting .....	45.63	14.06
<b>26 27 23 00-0044 2-1/4" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0032)</small>		
26 27 23 00-0045 EA 2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	454.11	68.17
26 27 23 00-0046 EA 2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	506.58	68.17
26 27 23 00-0047 EA 2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	568.40	68.17
<b>26 27 23 00-0048 5" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0032)</small>		
26 27 23 00-0049 EA 5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	921.48	68.17
26 27 23 00-0050 EA 5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	1,050.16	68.17
26 27 23 00-0051 EA 5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	1,194.29	68.17
<b>26 27 23 00-0052 2" Diameter, Round Aluminum Communication And Power Pole</b> <small>(26 27 23 00-0032)</small>		
26 27 23 00-0053 EA 2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	512.76	68.17
26 27 23 00-0054 EA 2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole .....	486.82	68.17

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 27</b>	<b>Low-Voltage Distribution Equipment</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 27 23 00-0055 EA 2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole .....616.25 68.17

### 26 27 26 Wiring Devices (26 27)

Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.

#### 26 27 26 00-0001 Receptacles (26 27 26)

#### 26 27 26 00-0002 General Use Receptacles (26 27 26 00-0001)

#### 26 27 26 00-0003 Receptacle Assemblies (26 27 26 00-0002)

Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.

26 27 26 00-0004 EA 15 Amperes, 1 Gang, NEMA 5-15, Duplex Receptacle Assembly .....	126.38	54.61
26 27 26 00-0005 EA 20 Amperes, 1 Gang, NEMA 5-20, Duplex Receptacle Assembly .....	135.08	58.45
26 27 26 00-0006 EA 15 Amperes, 2 Gang, NEMA 5-15, Duplex Receptacle Assembly .....	161.65	69.99
26 27 26 00-0007 EA 20 Amperes, 2 Gang, NEMA 5-20, Duplex Receptacle Assembly .....	179.06	77.68
26 27 26 00-0008 EA 15 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly .....	140.06	54.61
26 27 26 00-0009 EA 20 Amperes, 1 Gang, GFI, Duplex Receptacle Assembly .....	149.49	58.45

#### 26 27 26 00-0010 Receptacle Components (26 27 26 00-0002)

26 27 26 00-0011 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Single Receptacle .....	34.49	15.39
26 27 26 00-0012 EA 15 Amperes, 125 Volt, 1 Phase, NEMA 5-15, Duplex Receptacle .....	33.69	15.39
26 27 26 00-0013 EA 15 Amperes, 120/277 Volt, 3 Wire, Single Receptacle .....	38.40	15.39
26 27 26 00-0014 EA 15 Amperes, 120/277 Volt, 3 Wire, Duplex Receptacle .....	41.12	15.39
26 27 26 00-0015 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Single Receptacle .....	52.29	19.22
26 27 26 00-0016 EA 15 Amperes, 250 Volt, 1 Phase, NEMA 6-15, Duplex Receptacle .....	61.22	19.22
26 27 26 00-0017 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Single Receptacle .....	35.54	15.39
26 27 26 00-0018 EA 20 Amperes, 125 Volt, 1 Phase, NEMA 5-20, Duplex Receptacle .....	34.70	15.39
26 27 26 00-0019 EA 20 Amperes, 120/277 Volt, Single Receptacle .....	46.97	15.39
26 27 26 00-0020 EA 20 Amperes, 120/277 Volt, Duplex Receptacle .....	40.26	15.39
26 27 26 00-0021 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Single Receptacle .....	52.29	19.22
26 27 26 00-0022 EA 20 Amperes, 250 Volt, 1 Phase, NEMA 6-20, Duplex Receptacle .....	61.22	19.22
26 27 26 00-0023 EA 20 Amperes, 125/250 Volt, 1 Phase, NEMA 14-20, Single Receptacle .....	89.88	19.22
26 27 26 00-0024 EA 20 Amperes, 250 Volt, 3 Phase, NEMA 15-20, Single Receptacle .....	89.88	19.22
26 27 26 00-0025 EA 25 Amperes, 120/277 Volt, Duplex Receptacle .....	79.18	23.07

#### 26 27 26 00-0026 Specialty Receptacles (26 27 26 00-0001)

#### 26 27 26 00-0027 Specialty Receptacles (26 27 26 00-0026)

26 27 26 00-0028 EA 30 Amperes, 125 Volt, 1 Phase, NEMA 5-30, Single Receptacle .....	74.11	26.92
26 27 26 00-0029 EA 30 Amperes, 250 Volt, 1 Phase, NEMA 6-30, Single Receptacle .....	74.11	26.92
26 27 26 00-0030 EA 30 Amperes, 125/250 Volt, NEMA 10-30, Single Receptacles .....	95.37	26.92
26 27 26 00-0031 EA 30 Amperes, 125/250 Volt, 1 Phase, NEMA 14-30, Single Receptacle .....	105.25	26.92
26 27 26 00-0032 EA 30 Amperes, 250 Volt, 3 Phase, NEMA 15-30, Single Receptacle .....	112.95	30.76
26 27 26 00-0033 EA 50 Amperes, 125 Volt, 1 Phase, NEMA 5-50, Single Receptacle .....	105.53	30.76
26 27 26 00-0034 EA 50 Amperes, 250 Volt, 1 Phase, NEMA 6-50, Single Receptacle .....	103.43	30.76
26 27 26 00-0035 EA 50 Amperes, 277 Volt, NEMA 7-50, Single Receptacle .....	92.63	30.76
26 27 26 00-0036 EA 50 Amperes, 125/250 Volt, NEMA 10-50, Single Receptacle .....	114.73	30.76
26 27 26 00-0037 EA 50 Amperes, 125/250 Volt, 1 Phase, NEMA 14-50, Single Receptacle .....	124.38	30.76
26 27 26 00-0038 EA 50 Amperes, 250 Volt, 3 Phase, NEMA 15-50, Single Receptacle .....	132.07	34.61
26 27 26 00-0039 EA 60 Amperes, 125/250 Volt, 1 Phase, NEMA 14-60, Single Receptacle .....	145.48	38.46
26 27 26 00-0040 EA 60 Amperes, 250 Volt, 3 Phase, NEMA 15-60, Single Receptacle .....	160.86	46.15
26 27 26 00-0041 EA 100 Amperes, 480 Volt, 3 Phase, Joy Receptacle With Box, Complete .....	1,486.02	361.48
26 27 26 00-0042 EA 400 Amperes, 4 Pole Weatherproof Generator Receptacle With Box, Complete .....	3,412.12	442.24
26 27 26 00-0043 EA 30 Amperes, 230 Volt, Dryer Receptacle .....	87.76	30.76
26 27 26 00-0044 EA 60 Amperes, 230 Volt, Range Receptacle .....	129.03	46.15
26 27 26 00-0045 EA 15 Or 20 Amperes, 120/277 Volt, Clock Hanger Receptacle .....	77.50	19.22
26 27 26 00-0046 EA Cable Reel With 20 Amperes, 120 Volt Receptacle, Complete .....	1,604.78	468.46

#### 26 27 26 00-0047 Isolated Ground Receptacles (26 27 26 00-0026)

26 27 26 00-0048 EA 15 Amperes, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex .....	100.24	15.39
Note: 2 Pole, 3 wire.		
26 27 26 00-0049 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Simplex .....	67.33	19.22
26 27 26 00-0050 EA 20 Amperes, 120 Volt Isolated Ground Receptacles, Duplex .....	67.12	19.22
26 27 26 00-0051 EA 30 Amperes, 120 Volt Isolated Ground Receptacles, Simplex .....	95.36	30.76
26 27 26 00-0052 EA Locking 15 Amperes, 250 Volt Isolated Ground Receptacles .....	74.21	19.22
26 27 26 00-0053 EA Locking 15 Amperes, 277 Volt Isolated Ground Receptacles .....	68.86	19.22
26 27 26 00-0054 EA Locking 20 Amperes, 120/208 Volt Isolated Ground Receptacles .....	93.29	23.07
26 27 26 00-0055 EA Locking 20 Amperes, 277/480 Volt Isolated Ground Receptacles .....	76.62	23.07
26 27 26 00-0056 EA Locking 20 Amperes, 347/600 Volt Isolated Ground Receptacles .....	95.27	23.07
26 27 26 00-0057 EA Locking 30 Amperes, 120/208 Volt Isolated Ground Receptacles .....	113.44	23.07
26 27 26 00-0058 EA Locking 30 Amperes, 277 Volt Isolated Ground Receptacles .....	116.00	30.76

#### 26 27 26 00-0059 Explosion Proof Receptacles (26 27 26 00-0026)

26 27 26 00-0060 EA 1/2", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly .....	966.80	38.46
26 27 26 00-0061 EA 3/4", 20 Amperes, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly .....	893.09	42.30
26 27 26 00-0062 EA 3/4", 30 Amperes, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly .....	1,487.03	76.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0063 EA 3/4", 30 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly .....	1,866.47	76.91
26 27 26 00-0064 EA 1-1/4", 60 Amperes, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly .....	2,367.83	115.36
26 27 26 00-0065 EA 1-1/4", 60 Amperes, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly .....	2,257.97	115.36
<b>26 27 26 00-0066 Ground Fault Circuit Interrupter (GFCI) (26 27 26 00-0026)</b>		
26 27 26 00-0067 EA 15 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle .....	43.53	19.22
26 27 26 00-0068 EA 20 Amperes, Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle .....	64.50	23.07
<b>26 27 26 00-0069 Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)</b>		
26 27 26 00-0070 EA 15 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle .....	73.37	19.22
26 27 26 00-0071 EA 20 Amperes, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle .....	80.00	19.22
<b>26 27 26 00-0072 Locking Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0073 EA NEMA L5-15, 125 Volt, 2 Pole, 15 Amperes, Locking Receptacle .....	64.55	19.22
26 27 26 00-0074 EA NEMA L6-15, 250 Volt, 2 Pole, 15 Amperes, Locking Receptacle .....	78.09	19.22
26 27 26 00-0075 EA NEMA L5-20, 125 Volt, 2 Pole, 20 Amperes, Locking Receptacle .....	72.08	23.07
26 27 26 00-0076 EA NEMA L6-20, 250 Volt, 2 Pole, 20 Amperes, Locking Receptacle .....	71.48	23.07
26 27 26 00-0077 EA NEMA L8-20, 480 Volt, 2 Pole, 20 Amperes, Locking Receptacle .....	83.39	23.07
26 27 26 00-0078 EA NEMA L9-20, 600 Volt, 2 Pole, 20 Amperes, Locking Receptacle .....	98.79	23.07
26 27 26 00-0079 EA NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle .....	97.09	23.07
26 27 26 00-0080 EA NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amperes, Locking Receptacle .....	85.83	23.07
26 27 26 00-0081 EA NEMA L5-30, 125 Volt, 2 Pole, 30 Amperes, Locking Receptacle .....	99.18	30.76
26 27 26 00-0082 EA NEMA L6-30, 250 Volt, 2 Pole, 30 Amperes, Locking Receptacle .....	100.61	30.76
26 27 26 00-0083 EA NEMA L15-30, 250 Volt, 3 Pole, 30 Amperes, Locking Receptacle .....	123.36	30.76
<b>26 27 26 00-0084 Hospital Grade Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0085 EA 15 Amperes, Heavy Duty Hospital Grade, NEMA 5-15, Duplex Receptacle .....	63.71	15.39
26 27 26 00-0086 EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle .....	68.85	15.39
26 27 26 00-0087 EA 20 Amperes, Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground .....	78.58	15.39
26 27 26 00-0088 EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle .....	69.58	15.39
26 27 26 00-0089 EA 20 Amperes, Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground .....	79.65	15.39
26 27 26 00-0090 EA 20 Amperes, Non-Magnetic MRI Hospital Grade, NEMA 5-20, Duplex Receptacle .....	87.45	15.39
26 27 26 00-0091 EA 120 Volt, Transient Voltage, Surge Suppressor Receptacle .....	178.39	46.15
Note: Hospital grade receptacle.		
<b>26 27 26 00-0092 Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0093 EA 20 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W) .....	305.45	76.91
26 27 26 00-0094 EA 20 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W) .....	304.82	76.91
26 27 26 00-0095 EA 20 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W) .....	316.64	76.91
26 27 26 00-0096 EA 20 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W) .....	382.19	84.60
26 27 26 00-0097 EA 20 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W) .....	383.17	84.60
26 27 26 00-0098 EA 20 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W) .....	380.90	84.60
26 27 26 00-0099 EA 30 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W) .....	453.48	94.60
26 27 26 00-0100 EA 30 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W) .....	434.24	94.60
26 27 26 00-0101 EA 30 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W) .....	464.35	94.60
26 27 26 00-0102 EA 30 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W) .....	472.75	103.83
26 27 26 00-0103 EA 30 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W) .....	472.37	103.83
26 27 26 00-0104 EA 30 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W) .....	475.10	103.83
26 27 26 00-0105 EA 60 Amperes, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W) .....	654.76	123.05
26 27 26 00-0106 EA 60 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W) .....	631.47	123.05
26 27 26 00-0107 EA 60 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W) .....	646.63	123.05
26 27 26 00-0108 EA 60 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W) .....	720.03	136.90
26 27 26 00-0109 EA 60 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W) .....	720.48	136.90
26 27 26 00-0110 EA 60 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W) .....	720.93	136.90
26 27 26 00-0111 EA 100 Amperes, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W) .....	802.08	153.82
26 27 26 00-0112 EA 100 Amperes, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W) .....	831.94	153.82
26 27 26 00-0113 EA 100 Amperes, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W) .....	896.70	169.21
26 27 26 00-0114 EA 100 Amperes, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W) .....	894.46	169.21
26 27 26 00-0115 EA 100 Amperes, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W) .....	898.68	169.21
<b>26 27 26 00-0116 Corrosion Resistant Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0117 EA 15/20 Amperes, 125 Volt Corrosion Resistant, Power Receptacles .....	78.45	15.39
26 27 26 00-0118 EA 15/20 Amperes, 250 Volt Corrosion Resistant, Power Receptacles .....	151.16	19.22
<b>26 27 26 00-0119 Tamper Resistant Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0120 EA 15 Amperes, 125 Volt Duplex Tamper Resistant Receptacle .....	36.57	15.39
Note: Pass & Seymour 3232-TR.		
26 27 26 00-0121 EA 20 Amperes, 125 Volt Duplex Tamper Resistant Receptacle .....	39.56	15.39
Note: Pass & Seymour TR20.		
26 27 26 00-0122 EA 15 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle .....	48.15	15.39
Note: Pass & Seymour TR5251.		
26 27 26 00-0123 EA 20 Amperes, 125 Volt Single Specification Grade Tamper Resistant Receptacle .....	52.18	15.39
Note: Pass & Seymour TR5351.		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0124 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle.....	76.37	15.39
Note: Pass & Seymour S1595-TR*CC8.		
26 27 26 00-0125 EA 15 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	82.13	15.39
Note: Pass & Seymour 1595-TRS.		
26 27 26 00-0126 EA 20 Amperes, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	87.64	15.39
Note: Pass & Seymour 2095-TRS.		
<b>26 27 26 00-0127 USB Charger/Duplex Tamper-Resistant Receptacles (26 27 26 00-0026)</b>		
26 27 26 00-0128 EA 15 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	78.47	15.39
26 27 26 00-0129 EA 20 Amperes, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	84.44	15.39
<b>26 27 26 00-0130 Television Receptacle (26 27 26 00-0001)</b>		
26 27 26 00-0131 EA TV Receptacle With Cover (Type F), Complete.....	91.39	35.68
<b>26 27 26 00-0132 Switches (26 27 26)</b>		
<b>26 27 26 00-0133 Switches (26 27 26 00-0132)</b>		
<b>26 27 26 00-0134 Switch Assemblies (26 27 26 00-0133)</b>		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0135 EA 1 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	129.25	53.83
26 27 26 00-0136 EA 1 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	138.97	58.45
26 27 26 00-0137 EA 2 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	171.22	70.37
26 27 26 00-0138 EA 2 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	187.59	78.07
26 27 26 00-0139 EA 3 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	294.71	120.75
26 27 26 00-0140 EA 3 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	319.26	132.29
26 27 26 00-0141 EA 4 Gang, 15 Amperes, 120/277 Volt, SPST, Switch Assembly.....	336.52	136.52
26 27 26 00-0142 EA 4 Gang, 20 Amperes, 120/277 Volt, SPST, Switch Assembly.....	369.26	151.89
<b>26 27 26 00-0143 Switch Components (26 27 26 00-0133)</b>		
26 27 26 00-0144 EA 15 Amperes, 120/277 Volt, SPST Switch.....	38.09	15.39
26 27 26 00-0145 EA 15 Amperes, 120/277 Volt, 3-Way Switch.....	48.10	19.22
26 27 26 00-0146 EA 15 Amperes, 120/277 Volt, 4-Way Switch.....	89.49	30.76
26 27 26 00-0147 EA 15 Amperes, 120/277 Volt, DPST Switch.....	42.36	15.39
26 27 26 00-0148 EA 15 Amperes, 120/277 Volt, Thermal Switch.....	74.91	19.22
26 27 26 00-0149 EA 20 Amperes, 120/277 Volt, SPST Switch.....	46.29	19.22
26 27 26 00-0150 EA 20 Amperes, 120/277 Volt, 3-Way Switch.....	56.85	23.07
26 27 26 00-0151 EA 20 Amperes, 120/277 Volt, 4-Way Switch.....	114.86	30.76
26 27 26 00-0152 EA 20 Amperes, 120/277 Volt, DPST Switch.....	53.13	19.22
26 27 26 00-0153 EA 20 Amperes, 120/277 Volt, DPDT Switch.....	56.15	19.22
26 27 26 00-0154 EA 15 Amperes, 120/277 Volt, Single Pole, Toggle, Three Position, Center Off, Momentary Contact Switch.....	90.62	19.25
26 27 26 00-0155 EA 15 Amperes, 120/277 Volt, Key Operated, Single Pole, Three Position, Center Off, Momentary Contact Switch.....	113.39	19.25
26 27 26 00-0156 EA Momentary Contact Switch With Separate Neon Pilot.....	87.95	23.10
Note: Neon Pilot is 125 V, 1 / 125W.		
26 27 26 00-0157 EA 20 Amperes, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off.....	69.02	26.92
Note: Or 250 VAC 10 Amp, double throw BAT handle.		
26 27 26 00-0158 EA 20 Amperes, 125 Volt AC, Double Pole, Maintained Contact Switch.....	83.66	30.76
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0159 EA 20 Amperes, 125 Volt AC, Three Pole, Maintained Contact Switch.....	114.92	30.76
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0160 EA 30 Amperes, 120/277 Volt, Single Pole, Local Switch.....	92.96	30.80
26 27 26 00-0161 EA 30 Amperes, 120/277 Volt, Double Pole, Local Switch.....	113.43	30.80
26 27 26 00-0162 EA 30 Amperes, 120/277 Volt, Three-Way Local Switch.....	119.65	38.51
26 27 26 00-0163 EA 30 Amperes, 120/277 Volt, Four-Way Local Switch.....	165.19	42.36
26 27 26 00-0164 EA 15 Amperes, 120/277 Volt, Local Switch With Neon Pilot.....	84.01	25.19
26 27 26 00-0165 EA 15 Amperes, 120/277 Volt, Local Switch With Separate Neon Pilot.....	115.21	25.19
Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0166 EA 15 Amperes, 120 Volt, Clear Toggle, Lighted In On Position, Single Pole, Lighted Toggle Switch.....	101.76	25.19
26 27 26 00-0167 EA 15 Amperes, 120 Volt, Ivory Toggle, Lighted In Off Position, Lighted Toggle Switch.....	97.13	25.19
26 27 26 00-0168 EA 6 Amperes, 125 Volt, Door Open-Light On, Automatic Door Switch.....	102.48	12.48
26 27 26 00-0169 EA 6 Amperes, 125 Volt, Door Closed-Light On, Automatic Door Switch.....	108.76	12.48
26 27 26 00-0170 EA 15 Amperes, 120/277 Volt, Three Position, Center Off, Toggle, Single Pole Momentary Contact Switch.....	119.43	48.06
26 27 26 00-0171 EA Three Position, Center Off, Key Operated, Momentary Contact Switch.....	142.20	48.06
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0172 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ).....	165.14	15.41
26 27 26 00-0173 EA 8 Amperes, 120/277 Volt, 0 To 10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	91.46	15.41
26 27 26 00-0174 EA 120/277 Volt, (8 Amperes Lighting/3 Amperes Fan), Wireless Dimming Switch (Lutron MRF2-8S-DV-WH).....	275.62	15.39
26 27 26 00-0175 EA 120 Volt, Companion Wireless Dimmer Switch (Lutron MA-AS-WH).....	59.22	15.39
26 27 26 00-0176 EA 1200VA 0-10V LED And Fluorescent, Sunrise Electronic Wall Dimmer (Philips SR1200ZTUNV).....	97.08	15.41
26 27 26 00-0177 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000).....	110.50	15.41
26 27 26 00-0178 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000).....	139.80	15.41
26 27 26 00-0179 EA Wireless Single Rocker Remote Switch (Leviton WSS0S-S9).....	169.90	15.41
<b>26 27 26 00-0180 Specialty Switches (26 27 26 00-0132)</b>		



<b>Electrical</b>	<b>26</b>	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 26 00-0181 Dimmers With SPST Switch</b> <small>(26 27 26 00-0180)</small>		
26 27 26 00-0182 EA 600 Watt Dimmers With SPST Switch .....	85.06	34.61
26 27 26 00-0183 EA 1,000 Watt Dimmers With SPST Switch .....	134.53	34.61
26 27 26 00-0184 EA 1,500 Watt Dimmers With SPST Switch .....	239.16	55.69
26 27 26 00-0185 EA 2,000 Watt Dimmers With SPST Switch .....	302.28	55.69
26 27 26 00-0186 EA 600 Watt Fluorescent Dimmer Switch .....	173.05	41.07
26 27 26 00-0187 EA 1,000 Watt Fluorescent Dimmer Switch .....	227.36	41.07
26 27 26 00-0188 EA 1,500 Watt Fluorescent Dimmer Switch .....	405.68	61.99
26 27 26 00-0189 EA Remote Speed Switch For Paddle Fan .....	137.40	51.22
26 27 26 00-0190 EA 600 Watt Combination Remote Speed Switch/Incandescent Dimmer .....	222.81	76.45
<b>26 27 26 00-0191 Time Switches</b> <small>(26 27 26 00-0180)</small>		
26 27 26 00-0192 EA 40 Amperes, 125 Volt, SPST, Standard Time Switch .....	149.43	46.15
26 27 26 00-0193 EA 40 Amperes, 277 Volt, SPST, Standard Time Switch .....	152.29	46.15
26 27 26 00-0194 EA 40 Amperes, 125 Volt, DPST, Standard Time Switch .....	149.43	46.15
26 27 26 00-0195 EA 40 Amperes, 277 Volt, DPST, Standard Time Switch .....	152.29	46.15
26 27 26 00-0196 EA 40 Amperes, 125 Volt, SPST, 7-Day Time Switch .....	168.47	46.15
26 27 26 00-0197 EA 40 Amperes, 277 Volt, SPST, 7-Day Time Switch .....	168.47	46.15
26 27 26 00-0198 EA 40 Amperes, 125 Volt, DPDT, 7-Day Time Switch .....	280.85	46.15
26 27 26 00-0199 EA 40 Amperes, 277 Volt, DPDT, 7-Day Time Switch .....	280.85	46.15
26 27 26 00-0200 EA 20 Amperes, 125 Volt, SPST, Programmable Time Switch .....	244.79	46.15
26 27 26 00-0201 EA 20 Amperes, 277 Volt, SPST, Programmable Time Switch .....	266.81	46.15
26 27 26 00-0202 EA 20 Amperes, 277 Volt, SPST, Weatherproof Programmable Time Switch .....	266.81	46.15
26 27 26 00-0203 EA 40 Amperes, 125 Volt, 4PST, Astro Dial Time Switch .....	318.84	46.15
26 27 26 00-0204 EA 40 Amperes, 277 Volt, 4PST, Astro Dial Time Switch .....	327.60	46.15
26 27 26 00-0205 EA 40 Amperes, 125 Volt, SPST, Weatherproof Standard Time Switch .....	149.43	46.15
26 27 26 00-0206 EA 40 Amperes, 277 Volt, SPST, Weatherproof Standard Time Switch .....	152.29	46.15
26 27 26 00-0207 EA 40 Amperes, 125 Volt, DPST, Weatherproof Standard Time Switch .....	149.43	46.15
26 27 26 00-0208 EA 40 Amperes, 277 Volt, DPST, Weatherproof Standard Time Switch .....	152.29	46.15
26 27 26 00-0209 EA 40 Amperes, 125 Volt, SPST, Weatherproof 7-Day Time Switch .....	168.47	46.15
26 27 26 00-0210 EA 40 Amperes, 277 Volt, SPST, Weatherproof 7-Day Time Switch .....	168.47	46.15
26 27 26 00-0211 EA 40 Amperes, 125 Volt, DPDT, Weatherproof 7-Day Time Switch .....	280.85	46.15
26 27 26 00-0212 EA 40 Amperes, 277 Volt, DPDT, Weatherproof 7-Day Time Switch .....	280.85	46.15
26 27 26 00-0213 EA 40 Amperes, 125 Volt, 4PST, Weatherproof Astro Dial Time Switch .....	318.84	46.15
26 27 26 00-0214 EA 40 Amperes, 277 Volt, 4PST, Weatherproof Astro Dial Time Switch .....	327.60	46.15
<b>26 27 26 00-0215 Low Voltage Switching</b> <small>(26 27 26 00-0180)</small>		
26 27 26 00-0216 EA 36 Pin Male Or Female Connector .....	215.49	15.39
<b>26 27 26 00-0217 Other Switches</b> <small>(26 27 26 00-0180)</small>		
26 27 26 00-0218 EA Pull Chain Switch 120/277 Volt AC Installed In Light Fixture .....	49.68	23.07
26 27 26 00-0219 EA SPST Locking Switch For Concealed Devices .....	147.58	61.53
26 27 26 00-0220 EA 3-Way Locking Switch For Concealed Devices .....	149.14	61.53
26 27 26 00-0221 EA Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard .....	158.61	57.53
26 27 26 00-0222 EA 15 Amperes Momentary Contact Switch .....	152.37	57.53
26 27 26 00-0223 EA 20 Amperes Momentary Contact Switch .....	158.94	57.53
26 27 26 00-0224 EA 2-1/4" Handy Box Cover Units Fuseholder Switch .....	156.93	69.31
26 27 26 00-0225 EA 2-3/4" Handy Box Cover Units Fuseholder Switch .....	158.76	69.31
26 27 26 00-0226 EA 4" Square Box Cover Units With 2 Fuseholders And 2 Switches .....	195.06	84.71
26 27 26 00-0227 EA 4" Square Box Cover Units With 1 Fuseholder And 1 Switch .....	177.36	77.01
26 27 26 00-0228 EA 4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch .....	177.82	77.01
<b>26 27 26 00-0229 Plates And Covers</b> <small>(26 27 26)</small>		
<b>26 27 26 00-0230 Wall Plates</b> <small>(26 27 26 00-0229)</small>		
<b>26 27 26 00-0231 Nylon Wall Plates</b> <small>(26 27 26 00-0230)</small>		
26 27 26 00-0232 EA 1 Gang Nylon Switch Wall Plates .....	2.28	0.77
26 27 26 00-0233 EA 2 Gang Nylon Switch Wall Plates .....	3.80	1.15
26 27 26 00-0234 EA 3 Gang Nylon Switch Wall Plates .....	5.37	1.54
26 27 26 00-0235 EA 4 Gang Nylon Switch Wall Plate .....	7.64	1.93
26 27 26 00-0236 EA 1 Gang Duplex Nylon Wall Plate .....	2.30	0.77
26 27 26 00-0237 EA 2 Gang Duplex Nylon Wall Plate .....	3.89	1.15
<b>26 27 26 00-0238 Plastic Wall Plates</b> <small>(26 27 26 00-0230)</small>		
26 27 26 00-0239 EA 1 Gang Plastic Switch Wall Plates .....	2.13	0.77
26 27 26 00-0240 EA 2 Gang Plastic Switch Wall Plates .....	3.51	1.15
26 27 26 00-0241 EA 3 Gang Plastic Switch Wall Plates .....	4.90	1.54
26 27 26 00-0242 EA 4 Gang Plastic Switch Wall Plates .....	7.64	1.93
26 27 26 00-0243 EA 1 Gang Duplex Plastic Wall Plate .....	2.13	0.77
26 27 26 00-0244 EA 2 Gang Duplex Plastic Wall Plate .....	3.52	1.15
<b>26 27 26 00-0245 Brass Wall Plates</b> <small>(26 27 26 00-0230)</small>		
26 27 26 00-0246 EA 1 Gang, 0.04" Brass Switch Wall Plates .....	20.98	3.46

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0247 EA 2 Gang, 0.04" Brass Switch Wall Plates .....	38.48	4.00
26 27 26 00-0248 EA 3 Gang, 0.04" Brass Switch Wall Plates .....	55.86	4.46
26 27 26 00-0249 EA 4 Gang, 0.04" Brass Switch Wall Plates .....	86.21	4.85
26 27 26 00-0250 EA 5 Gang, 0.04" Brass Switch Wall Plates .....	104.76	5.16
26 27 26 00-0251 EA 6 Gang, 0.04" Brass Switch Wall Plates .....	121.06	5.39
26 27 26 00-0252 EA 1 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	20.98	3.46
26 27 26 00-0253 EA 2 Gang, 0.04" Brass Duplex Receptacle Wall Plate.....	44.88	4.00
26 27 26 00-0254 EA 3 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	64.29	4.46
<b>26 27 26 00-0255 Stainless Steel Wall Plates</b> <small>(26 27 26 00-0230)</small>		
26 27 26 00-0256 EA 1 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates .....	11.74	3.46
26 27 26 00-0257 EA 2 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates .....	18.31	4.00
26 27 26 00-0258 EA 3 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates .....	25.23	4.46
26 27 26 00-0259 EA 4 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates .....	36.45	4.85
26 27 26 00-0260 EA 5 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates .....	42.75	5.16
26 27 26 00-0261 EA 6 Gang, 302 Stainless Steel With Satin Finish Switch Wall Plates .....	51.42	5.39
26 27 26 00-0262 EA 1 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	12.76	3.46
26 27 26 00-0263 EA 2 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	20.70	4.00
26 27 26 00-0264 EA 3 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	33.15	4.46
26 27 26 00-0265 EA 4 Gang, 302 Stainless Steel With Satin Finish Duplex Receptacle Wall Plate.....	39.88	4.85
<b>26 27 26 00-0266 Chrome Wall Plates</b> <small>(26 27 26 00-0230)</small>		
26 27 26 00-0267 EA 1 Gang, 0.040" Chrome Switch Wall Plate .....	40.85	3.46
26 27 26 00-0268 EA 2 Gang 0.040" Chrome Switch Wall Plate .....	75.72	4.00
26 27 26 00-0269 EA 3 Gang 0.040" Chrome Switch Wall Plate .....	110.55	4.46
26 27 26 00-0270 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate.....	40.82	3.46
<b>26 27 26 00-0271 Weatherproof Covers</b> <small>(26 27 26 00-0229)</small>		
<b>26 27 26 00-0272 Stamped Metallic Weatherproof Covers</b> <small>(26 27 26 00-0271)</small>		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0273 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC).....	11.71	0.77
26 27 26 00-0274 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	12.66	0.77
26 27 26 00-0275 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	12.66	0.77
26 27 26 00-0276 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC).....	12.66	0.77
26 27 26 00-0277 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC).....	15.64	1.15
26 27 26 00-0278 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	17.67	1.15
26 27 26 00-0279 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	17.87	1.15
26 27 26 00-0280 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....	17.87	1.15
26 27 26 00-0281 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	24.07	1.15
26 27 26 00-0282 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB).....	23.05	1.54
26 27 26 00-0283 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT).....	25.12	1.54
<b>26 27 26 00-0284 Cast Metallic Weatherproof Covers</b> <small>(26 27 26 00-0271)</small>		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0285 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	14.25	0.77
26 27 26 00-0286 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	44.58	0.77
26 27 26 00-0287 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	49.94	0.77
26 27 26 00-0288 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	14.14	0.77
26 27 26 00-0289 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT).....	37.85	0.77
26 27 26 00-0290 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT).....	62.69	0.77
26 27 26 00-0291 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST).....	79.70	0.77
26 27 26 00-0292 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	17.87	1.15
26 27 26 00-0293 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST).....	125.86	1.15
26 27 26 00-0294 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC).....	29.70	1.54
26 27 26 00-0295 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	120.47	1.54
<b>26 27 26 00-0296 Die Cast Aluminum Weatherproof Covers</b> <small>(26 27 26 00-0271)</small>		
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0297 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027).....	5.85	0.77
26 27 26 00-0298 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	7.43	0.77
26 27 26 00-0299 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	10.01	1.15
26 27 26 00-0300 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041).....	10.83	1.15
26 27 26 00-0301 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042).....	10.83	1.15
26 27 26 00-0302 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043).....	12.02	1.15
<b>26 27 26 00-0303 Heavy Duty Die Cast Aluminum Weatherproof Covers</b> <small>(26 27 26 00-0271)</small>		
Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0304 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	57.21	0.77





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 26 00-0305 Polycarbonate Weatherproof Covers</b> <small>(26 27 26 00-0271)</small>		
<small>Note: Includes neoprene gasket.</small>		
26 27 26 00-0306 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	11.75	0.77
26 27 26 00-0307 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730) .....	11.75	0.77
26 27 26 00-0308 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730) .....	11.75	0.77
26 27 26 00-0309 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775) .....	14.60	1.15
26 27 26 00-0310 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775).....	14.60	1.15
<b>26 27 26 00-0311 High Impact Thermoplastic Weatherproof Covers</b> <small>(26 27 26 00-0271)</small>		
<small>Note: Includes neoprene gasket.</small>		
26 27 26 00-0312 EA Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522) .....	91.79	0.77
<b>26 27 26 00-0313 Non-Metallic (PVC) Weatherproof Covers</b> <small>(26 27 26 00-0271)</small>		
<small>Note: Includes neoprene gasket.</small>		
26 27 26 00-0314 EA Blank Cover, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....	13.26	0.77
26 27 26 00-0315 EA Blank Cover, Two Gang, Non-Metallic (PVC) Weatherproof Cover .....	14.37	1.15
26 27 26 00-0316 EA Toggle Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....	13.30	0.77
26 27 26 00-0317 EA Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....	28.93	0.77
26 27 26 00-0318 EA Duplex Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....	33.48	0.77
26 27 26 00-0319 EA 20 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....	27.20	0.77
26 27 26 00-0320 EA 30 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....	20.35	0.77
26 27 26 00-0321 EA 50 Amperes, Receptacle, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....	23.76	0.77
26 27 26 00-0322 EA Plunger Switch, Single Gang, Non-Metallic (PVC) Weatherproof Cover .....	21.28	0.77
26 27 26 00-0323 EA Double Duplex Receptacle, Two Gang, Non-Metallic (PVC) Weatherproof Cover .....	30.65	1.15
<b>26 27 26 00-0324 Removal And Reinstallation Of Wiring Devices</b> <small>(26 27 26)</small>		
<small>Note: Includes storage and cleaning.</small>		
26 27 26 00-0325 EA Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device.....	101.20	
26 27 26 00-0326 EA Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate .....	12.82	
<b>26 27 26 00-0327 Relay Systems</b> <small>(26 27 26)</small>		
26 27 26 00-0328 EA 10 Amperes, 24 Volt Coil, 2 Position Relay .....	109.38	34.61
26 27 26 00-0329 EA 20 Amperes, 120 Volt Coil, Up To 4 Contacts, Industrial Control Relay .....	450.12	115.36
26 27 26 00-0330 EA 20 Amperes, 120 Volt Coil, 12 Contacts, Industrial Control Relay .....	746.79	153.82
<b>26 27 26 00-0331 Limit Switches</b> <small>(26 27 26)</small>		
<b>26 27 26 00-0332 Heavy Duty Precision Oiltight</b> <small>(26 27 26 00-0331)</small>		
<b>26 27 26 00-0333 Lever Arm, Plunger, Wobble Stick Type</b> <small>(26 27 26 00-0332)</small>		
26 27 26 00-0334 EA Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amperes Rated .....	488.19	96.91
<b>26 27 26 00-0335 In Line Midget Fuseholders</b> <small>(26 27 26)</small>		
<small>See CSI section 26 28 13 00-0078 for fuses.</small>		
26 27 26 00-0336 EA Single Pole Water Resistant In Line Midget Fuseholder .....	102.60	
26 27 26 00-0337 EA Double Pole Water Resistant In Line Midget Fuseholder .....	222.81	
<b>26 27 33 Power Distribution Units</b> <small>(26 27)</small>		
<small>Note: Includes wiring connections and testing.</small>		
<b>26 27 33 00-0001 Liebert Precision Power Center</b> <small>(26 27 33)</small>		
<small>Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.</small>		
26 27 33 00-0002 EA PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C) .....	21,359.51	473.01
26 27 33 00-0003 EA PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C) .....	25,770.93	512.68
26 27 33 00-0004 EA PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C) .....	29,364.87	569.14
26 27 33 00-0005 EA PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C) .....	33,773.38	615.28
26 27 33 00-0006 EA PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C) .....	36,886.43	769.11
26 27 33 00-0007 EA PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C) .....	41,402.20	922.93
26 27 33 00-0008 EA PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C) .....	47,774.48	1,076.75
26 27 33 00-0009 EA PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C) .....	50,268.70	1,230.58
26 27 33 00-0010 EA PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C) .....	53,134.22	1,384.39
26 27 33 00-0011 EA Ex Panelboard 10-30 KVA .....	1,933.14	153.82
26 27 33 00-0012 EA Ex Panelboard 50-125 KVA .....	2,876.42	192.28
26 27 33 00-0013 EA Ex Panelboard 150-220 KVA .....	6,418.84	230.73
26 27 33 00-0014 EA Removal And Reinstallation Of Power Distribution Unit .....	2,461.14	
<small>Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.</small>		
26 27 33 00-0015 EA Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only .....	1,845.86	
<b>26 27 73 Door Chimes</b> <small>(26 27)</small>		
<b>26 27 73 00-0001 Door Bell Chime And Door Button With Built-In Viewer</b> <small>(26 27 73)</small>		
<small>Note: Non-electric chime, mounted on door</small>		

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 27 Low-Voltage Distribution Equipment**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 73 00-0002 EA Mechanical Door Bell Chime And Door Button With Built-In Viewer (Newhouse Hardware MCHBV) .....	87.49	19.06
<b>26 27 73 00-0003 Wireless Door Bell System</b> <small>(26 27 73)</small>		
26 27 73 00-0004 EA Wireless Doorbell Chime And Push Button (Broan LA542WH) .....	156.75	
Note: Includes 2 push buttons		
26 27 73 00-0005 EA Wireless Doorbell Chime And Push Button (STI-3350G).....	148.51	
Note: Includes 2 push buttons		
26 27 73 00-0006 EA Wireless Doorbell Chime And Push Button (GE 19300) .....	114.82	
Note: Includes 2 push buttons		
<b>26 27 73 00-0007 Door Chimes</b> <small>(26 27 73)</small>		
26 27 73 00-0008 EA Door Bell, Push-Button And Transformer, Complete .....	795.28	320.41
26 27 73 00-0009 EA Visual Flashing Doorbell Indicator, Wire To Existing System, Complete .....	298.75	76.91
26 27 73 00-0010 EA Removal And Replacement Of Bell/Buzzer, Complete .....	124.52	38.46
Note: Includes removal of existing.		

**26 28 Low-Voltage Circuit Protective Devices** (26 20)

**26 28 13 Fuses** (26 28)

**26 28 13 00-0001 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses** (26 28 13)

26 28 13 00-0002 EA 1 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	32.58	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0003 EA 2 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	31.95	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0004 EA 3 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	31.09	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0005 EA 5 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	30.96	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0006 EA 6 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	31.77	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0007 EA 8 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	30.19	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0008 EA 10 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	29.82	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0009 EA 15 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.75	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0010 EA 20 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.28	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0011 EA 25 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	27.17	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0012 EA 30 Amperes, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse.....	26.55	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	

**26 28 13 00-0013 Class RK1, Time Delay Fuses** (26 28 13)

**26 28 13 00-0014 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuses** (26 28 13 00-0013)

26 28 13 00-0015 EA 1 Ampere, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse .....	47.71	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0016 EA 2 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	44.92	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0017 EA 3 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	46.86	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0018 EA 4 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	46.61	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0019 EA 5 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	44.67	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0020 EA 10 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	43.51	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0021 EA 15 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	40.43	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0022 EA 20 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	40.20	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0023 EA 25 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	40.45	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0024 EA 30 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	40.13	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0025 EA 35 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	53.23	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0026 EA 40 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	52.30	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0027 EA 45 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	53.00	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0028 EA 50 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	52.43	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0029 EA 60 Amperes, 250 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse.....	51.59	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0070 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	280.76	18.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 28 13 00-0071 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	526.03	18.76
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.46	
26 28 13 00-0072 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	531.47	22.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.23	
26 28 13 00-0073 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	597.72	22.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.23	
26 28 13 00-0074 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	542.73	22.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.23	
26 28 13 00-0075 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	964.87	22.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.23	
26 28 13 00-0076 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	863.57	27.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 13 00-0077 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse.....	755.14	27.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
<b>26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses (26 28 13)</b>		
Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.03	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0080 EA 2 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.77	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0081 EA 3 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.56	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0082 EA 5 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.33	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0083 EA 6 Amperes, 600 Volt AC, Class CC Midget Fuse.....	57.81	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0084 EA 8 Amperes, 600 Volt AC, Class CC Midget Fuse.....	52.24	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0085 EA 10 Amperes, 600 Volt AC, Class CC Midget Fuse.....	58.78	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0086 EA 15 Amperes, 600 Volt AC, Class CC Midget Fuse.....	54.35	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0087 EA 20 Amperes, 600 Volt AC, Class CC Midget Fuse.....	53.44	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0088 EA 25 Amperes, 600 Volt AC, Class CC Midget Fuse.....	51.35	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
26 28 13 00-0089 EA 30 Amperes, 600 Volt AC, Class CC Midget Fuse.....	53.13	11.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	7.38	
<b>26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse (26</b>		
28 13)		
26 28 13 00-0091 EA 1 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	65.86	7.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 28 13 00-0092 EA 3 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	66.35	7.69
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.62	
26 28 13 00-0093 EA 6 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	58.43	9.23
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	5.54	
26 28 13 00-0094 EA 10 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	59.16	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 28 13 00-0095 EA 15 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	60.32	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 28 13 00-0096 EA 20 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	59.29	11.54
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.92	
26 28 13 00-0097 EA 25 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	75.83	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0098 EA 30 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	64.25	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0099 EA 35 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	107.47	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0100 EA 40 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	92.58	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0101 EA 45 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	105.19	15.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.23	
26 28 13 00-0102 EA 50 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	95.77	19.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 28 13 00-0103 EA 60 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	94.16	19.22
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.54	
26 28 13 00-0104 EA 70 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	143.32	23.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.85	
26 28 13 00-0105 EA 80 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	152.16	23.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.85	
26 28 13 00-0106 EA 90 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	149.90	23.07
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.85	
26 28 13 00-0107 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	134.16	26.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.15	
26 28 13 00-0108 EA 110 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	298.99	26.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.15	
26 28 13 00-0109 EA 125 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	255.80	26.92
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0110 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	246.05	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0111 EA 175 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	249.49	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0112 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	209.31	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0113 EA 225 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	509.81	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0114 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	472.31	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0115 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	436.22	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0116 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	474.63	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0117 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	395.68	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0118 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	824.21	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0119 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	703.36	38.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.07	
26 28 13 00-0120 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	527.31	38.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.07	
<b>26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses (26 28 13)</b>		
26 28 13 00-0122 EA 100 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,557.29	19.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.54	
26 28 13 00-0123 EA 150 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,560.35	19.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.54	
26 28 13 00-0124 EA 200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,563.20	19.22
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.54	
26 28 13 00-0125 EA 250 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,559.94	23.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.85	
26 28 13 00-0126 EA 300 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,437.50	23.07
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13.85	
26 28 13 00-0127 EA 350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,539.15	26.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.15	
26 28 13 00-0128 EA 400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,417.60	26.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.15	
26 28 13 00-0129 EA 450 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,584.05	26.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.15	
26 28 13 00-0130 EA 500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,553.39	26.92
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.15	
26 28 13 00-0131 EA 600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,384.78	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0132 EA 601 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,421.67	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0133 EA 650 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,885.36	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0134 EA 700 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,378.09	30.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 13 00-0135 EA 750 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,110.21	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0136 EA 800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,222.38	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0137 EA 900 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,777.50	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0138 EA 1,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,202.09	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0139 EA 1,200 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,237.38	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0140 EA 1,350 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,730.69	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0141 EA 1,400 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,692.56	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0142 EA 1,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,430.91	34.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20.77	
26 28 13 00-0143 EA 1,600 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,526.77	38.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.07	
26 28 13 00-0144 EA 1,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,215.21	38.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.07	
26 28 13 00-0145 EA 2,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,064.96	38.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.07	
26 28 13 00-0146 EA 2,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	2,785.04	38.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.07	
26 28 13 00-0147 EA 2,501 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	4,731.47	38.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.07	
26 28 13 00-0148 EA 3,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	3,104.45	42.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.38	
26 28 13 00-0149 EA 3,500 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	6,398.24	42.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.38	
26 28 13 00-0150 EA 3,800 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	7,420.90	42.30
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.38	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0151	EA		4,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,299.65 25.38	42.30
26 28 13 00-0152	EA		5,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,773.74 25.38	42.30
26 28 13 00-0153	EA		6,000 Amperes, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,199.87 25.38	42.30
<b>26 28 16 Enclosed Switches and Circuit Breakers (26 28)</b>					
<b>26 28 16 13 Enclosed Circuit Breakers (26 28 16)</b>					
<b>26 28 16 13-0001 Branch Circuit Breakers (26 28 16 13)</b>					
Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.					
<b>26 28 16 13-0002 Branch Circuit Breakers 10,000 Amperes Interrupting Capacity, Plug-On (26 28 16 13-0001)</b>					
Note: Includes connection of electrical wire.					
26 28 16 13-0003	EA		1 Pole, 120/240 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.69 19.73 -15.38 18.46	27.69
26 28 16 13-0004	EA		1 Pole, 120/240 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.69 19.73 -15.38 18.46	27.69
26 28 16 13-0005	EA		1 Pole, 120/240 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	100.36 26.00 -19.23 23.07	34.61
26 28 16 13-0006	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	140.67 31.04 -19.23 23.07	34.61
26 28 16 13-0007	EA		1 Pole GFI, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	186.77 36.81 -19.23 23.07	34.61
26 28 16 13-0008	EA		1 Pole GFI, 15 To 30 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	213.05 40.09 -19.23 23.07	34.61
26 28 16 13-0009	EA		1 Pole GFI, 15 To 20 Amperes, 120/240 Volt, "Arc Fault" Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.27 27.87 -19.23 23.07	34.61
26 28 16 13-0010	EA		2 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.74 30.62 -23.07 27.69	41.53
26 28 16 13-0011	EA		2 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	115.74 30.62 -23.07 27.69	41.53
26 28 16 13-0012	EA		2 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	169.95 42.78 -30.76 36.92	55.38
26 28 16 13-0013	EA		2 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	267.17 60.31 -38.46 46.15	69.22
26 28 16 13-0014	EA		2 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	311.47 68.55 -42.30 50.76	76.91
26 28 16 13-0015	EA		2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity <i>For Bolt-On, Add</i> <i>For Installation In New Panelboard, Deduct</i> Note: Also for use with new interiors in panelboards. <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	254.75 51.23 -27.69 33.23	49.23



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0016	EA			2 Pole GFI, 15 To 50 Amperes, 120/240 Volt, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... 330.15		49.23
				<i>For Bolt-On, Add</i>	60.65	
				<i>For Installation In New Panelboard, Deduct</i>	-27.69	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33.23	
26 28 16 13-0017	EA			3 Pole, 15 To 30 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... 205.12		55.38
				<i>For Bolt-On, Add</i>	47.17	
				<i>For Installation In New Panelboard, Deduct</i>	-30.76	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0018	EA			3 Pole, 35 To 60 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... 205.12		55.38
				<i>For Bolt-On, Add</i>	47.17	
				<i>For Installation In New Panelboard, Deduct</i>	-30.76	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0019	EA			3 Pole, 70 To 100 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... 266.73		69.22
				<i>For Bolt-On, Add</i>	60.26	
				<i>For Installation In New Panelboard, Deduct</i>	-38.46	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0020	EA			3 Pole, 110 To 125 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... 389.70		83.06
				<i>For Bolt-On, Add</i>	81.01	
				<i>For Installation In New Panelboard, Deduct</i>	-46.15	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.37	
26 28 16 13-0021	EA			3 Pole, 150 Amperes, 120/240 Volt, Branch Circuit Breaker, 10,000 Amperes Interrupting Capacity ..... 491.42		96.91
				<i>For Bolt-On, Add</i>	99.11	
				<i>For Installation In New Panelboard, Deduct</i>	-53.84	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.61	
26 28 16 13-0022				<b>Branch Circuit Breakers 14,000 Amperes Interrupting Capacity, Plug-On</b> <small>(26 28 16 13-0001)</small>		
				<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0023	EA			1 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 95.58		27.69
				<i>For Bolt-On, Add</i>	22.72	
				<i>For Installation In New Panelboard, Deduct</i>	-15.38	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 16 13-0024	EA			1 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 95.58		27.69
				<i>For Bolt-On, Add</i>	22.72	
				<i>For Installation In New Panelboard, Deduct</i>	-15.38	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18.46	
26 28 16 13-0025	EA			1 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 161.42		34.61
				<i>For Bolt-On, Add</i>	33.64	
				<i>For Installation In New Panelboard, Deduct</i>	-19.23	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.07	
26 28 16 13-0026	EA			1 Pole GFI, 277/480 Volt, 15 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 238.92		34.61
				<i>For Bolt-On, Add</i>	43.32	
				<i>For Installation In New Panelboard, Deduct</i>	-19.23	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.07	
26 28 16 13-0027	EA			2 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 178.62		41.53
				<i>For Bolt-On, Add</i>	38.48	
				<i>For Installation In New Panelboard, Deduct</i>	-23.07	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0028	EA			2 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 178.62		41.53
				<i>For Bolt-On, Add</i>	38.48	
				<i>For Installation In New Panelboard, Deduct</i>	-23.07	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0029	EA			2 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 335.16		55.38
				<i>For Bolt-On, Add</i>	63.43	
				<i>For Installation In New Panelboard, Deduct</i>	-30.76	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0030	EA			2 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 452.71		69.22
				<i>For Bolt-On, Add</i>	83.51	
				<i>For Installation In New Panelboard, Deduct</i>	-38.46	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0031	EA			2 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 649.17		76.91
				<i>For Bolt-On, Add</i>	110.76	
				<i>For Installation In New Panelboard, Deduct</i>	-42.30	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.76	
26 28 16 13-0032	EA			3 Pole, 277/480 Volt, 15 To 30 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity ..... 278.08		55.38
				<i>For Bolt-On, Add</i>	56.29	
				<i>For Installation In New Panelboard, Deduct</i>	-30.76	
				<i>Note: Also for use with new interiors in panelboards.</i>		
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0033 EA 3 Pole, 277/480 Volt, 35 To 60 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....	278.08	55.38
For Bolt-On, Add	56.29	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0034 EA 3 Pole, 277/480 Volt, 70 To 100 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....	407.34	69.22
For Bolt-On, Add	77.84	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0035 EA 3 Pole, 277/480 Volt, 110 To 125 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....	569.82	83.06
For Bolt-On, Add	103.53	
For Installation In New Panelboard, Deduct	-46.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0036 EA 3 Pole, 277/480 Volt, 150 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....	862.40	96.91
For Bolt-On, Add	145.49	
For Installation In New Panelboard, Deduct	-53.84	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	64.61	
26 28 16 13-0037 EA 3 Pole, 277/480 Volt, 175 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....	990.18	103.83
For Bolt-On, Add	164.15	
For Installation In New Panelboard, Deduct	-57.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.22	
26 28 16 13-0038 EA 3 Pole, 277/480 Volt, 200 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....	1,063.28	110.75
For Bolt-On, Add	175.98	
For Installation In New Panelboard, Deduct	-61.53	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	73.84	
26 28 16 13-0039 EA 3 Pole, 277/480 Volt, 225 Amperes, Branch Circuit Breaker, 14,000 Amperes Interrupting Capacity .....	1,249.79	117.68
For Bolt-On, Add	201.99	
For Installation In New Panelboard, Deduct	-65.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	78.45	
<b>26 28 16 13-0040 Branch Circuit Breakers 18,000 Amperes Interrupting Capacity, Plug-On</b> <small>(26 28</small>		
<small>16 13-0001)</small>		
Note: Includes connection of electrical wire.		
26 28 16 13-0041 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	111.27	27.69
For Bolt-On, Add	24.68	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0042 EA 35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	111.27	27.69
For Bolt-On, Add	24.68	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0043 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	176.92	34.61
For Bolt-On, Add	35.57	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0044 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	219.53	41.53
For Bolt-On, Add	43.59	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0045 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	219.53	41.53
For Bolt-On, Add	43.59	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0046 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	374.39	55.38
For Bolt-On, Add	68.33	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0047 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	915.17	69.22
For Bolt-On, Add	141.31	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0048 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	345.59	55.38
For Bolt-On, Add	64.73	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0049 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity .....	345.59	55.38
For Bolt-On, Add	64.73	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0050 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity.....	456.48	69.22
For Bolt-On, Add	83.98	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0051 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 18,000 Amperes Interrupting Capacity.....	1,131.30	83.06
For Bolt-On, Add	173.71	
For Installation In New Panelboard, Deduct	-46.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
<b>26 28 16 13-0052 Branch Circuit Breakers 22,000 Amperes Interrupting Capacity, Plug-On<sup>(26 28</sup></b>		
<sup>16 13-0001)</sup>		
Note: Includes connection of electrical wire.		
26 28 16 13-0053 EA 15 To 30 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	124.60	27.69
For Bolt-On, Add	26.34	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0054 EA 35 To 60 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	124.60	27.69
For Bolt-On, Add	26.34	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0055 EA 70 To 100 Amperes, 1 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	148.08	34.61
For Bolt-On, Add	31.97	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0056 EA 15 To 30 Amperes, 1 Pole GFI, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	237.14	34.61
For Bolt-On, Add	43.10	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0057 EA 15 To 30 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	254.30	41.53
For Bolt-On, Add	47.94	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0058 EA 35 To 60 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	254.30	41.53
For Bolt-On, Add	47.94	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0059 EA 70 To 100 Amperes, 2 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	311.39	55.38
For Bolt-On, Add	60.46	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0060 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	442.55	69.22
For Bolt-On, Add	82.24	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0061 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	564.41	76.91
For Bolt-On, Add	100.16	
For Installation In New Panelboard, Deduct	-42.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.76	
26 28 16 13-0062 EA 250 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	701.64	89.99
For Bolt-On, Add	122.70	
For Installation In New Panelboard, Deduct	-49.99	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.99	
26 28 16 13-0063 EA 300 To 400 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	761.04	103.83
For Bolt-On, Add	135.51	
For Installation In New Panelboard, Deduct	-57.68	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	69.22	
26 28 16 13-0064 EA 15 To 30 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	311.97	55.38
For Bolt-On, Add	60.53	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0065 EA 35 To 60 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	311.97	55.38
For Bolt-On, Add	60.53	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0066 EA 70 To 100 Amperes, 3 Pole, 120/240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity.....	368.49	69.22
For Bolt-On, Add	72.98	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0067	EA		110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	546.80	83.06
			<i>For Bolt-On, Add</i>	100.65	
			<i>For Installation In New Panelboard, Deduct</i>	-46.15	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.37	
26 28 16 13-0068	EA		150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	716.65	107.68
			<i>For Bolt-On, Add</i>	131.31	
			<i>For Installation In New Panelboard, Deduct</i>	-59.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	
26 28 16 13-0069	EA		250 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	880.67	124.60
			<i>For Bolt-On, Add</i>	158.54	
			<i>For Installation In New Panelboard, Deduct</i>	-69.22	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.06	
26 28 16 13-0070	EA		300 To 400 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 22,000 Amperes Interrupting Capacity .....	935.98	132.29
			<i>For Bolt-On, Add</i>	168.14	
			<i>For Installation In New Panelboard, Deduct</i>	-73.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.68	
<b>26 28 16 13-0071</b>			<b>Branch Circuit Breakers 25,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28 16 13-0001)</sup></b>		
			<i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0072	EA		15 To 30 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	262.99	41.53
			<i>For Bolt-On, Add</i>	49.02	
			<i>For Installation In New Panelboard, Deduct</i>	-23.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0073	EA		35 To 60 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	262.99	41.53
			<i>For Bolt-On, Add</i>	49.02	
			<i>For Installation In New Panelboard, Deduct</i>	-23.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0074	EA		70 To 100 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	395.37	55.38
			<i>For Bolt-On, Add</i>	70.96	
			<i>For Installation In New Panelboard, Deduct</i>	-30.76	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0075	EA		110 To 125 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	630.23	69.22
			<i>For Bolt-On, Add</i>	105.70	
			<i>For Installation In New Panelboard, Deduct</i>	-38.46	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0076	EA		150 To 225 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	969.39	86.14
			<i>For Bolt-On, Add</i>	154.82	
			<i>For Installation In New Panelboard, Deduct</i>	-48.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.68	
26 28 16 13-0077	EA		250 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	1,094.14	89.99
			<i>For Bolt-On, Add</i>	171.76	
			<i>For Installation In New Panelboard, Deduct</i>	-49.99	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.99	
26 28 16 13-0078	EA		300 To 400 Amperes, 2 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	1,198.73	103.83
			<i>For Bolt-On, Add</i>	190.22	
			<i>For Installation In New Panelboard, Deduct</i>	-57.68	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.22	
26 28 16 13-0079	EA		15 To 30 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	375.45	55.38
			<i>For Bolt-On, Add</i>	68.47	
			<i>For Installation In New Panelboard, Deduct</i>	-30.76	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0080	EA		35 To 60 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	375.45	55.38
			<i>For Bolt-On, Add</i>	68.47	
			<i>For Installation In New Panelboard, Deduct</i>	-30.76	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0081	EA		70 To 100 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	472.64	69.22
			<i>For Bolt-On, Add</i>	86.00	
			<i>For Installation In New Panelboard, Deduct</i>	-38.46	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0082	EA		110 To 125 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	782.24	83.06
			<i>For Bolt-On, Add</i>	130.08	
			<i>For Installation In New Panelboard, Deduct</i>	-46.15	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.37	
26 28 16 13-0083	EA		150 To 225 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	1,135.10	107.68
			<i>For Bolt-On, Add</i>	183.61	
			<i>For Installation In New Panelboard, Deduct</i>	-59.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0084	EA		250 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	1,339.56	124.60
			<i>For Bolt-On, Add</i>	215.90	
			<i>For Installation In New Panelboard, Deduct</i>	-69.22	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.06	
26 28 16 13-0085	EA		300 To 400 Amperes, 3 Pole, 240/480 Volt, Branch Circuit Breaker, 25,000 Amperes Interrupting Capacity .....	1,447.38	132.29
			<i>For Bolt-On, Add</i>	232.07	
			<i>For Installation In New Panelboard, Deduct</i>	-73.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.68	
<b>26 28 16 13-0086</b>			<b>Branch Circuit Breakers 30,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28</sup></b>		
			<sup>16 13-0001)</sup> <i>Note: Includes connection of electrical wire.</i>		
26 28 16 13-0087	EA		2 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	271.62	41.53
			<i>For Bolt-On, Add</i>	50.10	
			<i>For Installation In New Panelboard, Deduct</i>	-23.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0088	EA		2 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	271.62	41.53
			<i>For Bolt-On, Add</i>	50.10	
			<i>For Installation In New Panelboard, Deduct</i>	-23.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0089	EA		2 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	475.08	55.38
			<i>For Bolt-On, Add</i>	80.92	
			<i>For Installation In New Panelboard, Deduct</i>	-30.76	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0090	EA		2 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	851.23	69.22
			<i>For Bolt-On, Add</i>	133.32	
			<i>For Installation In New Panelboard, Deduct</i>	-38.46	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0091	EA		2 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	1,334.70	86.14
			<i>For Bolt-On, Add</i>	200.49	
			<i>For Installation In New Panelboard, Deduct</i>	-48.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.68	
26 28 16 13-0092	EA		2 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	1,514.29	89.99
			<i>For Bolt-On, Add</i>	224.28	
			<i>For Installation In New Panelboard, Deduct</i>	-49.99	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59.99	
26 28 16 13-0093	EA		2 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	1,652.12	103.83
			<i>For Bolt-On, Add</i>	246.89	
			<i>For Installation In New Panelboard, Deduct</i>	-57.68	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	69.22	
26 28 16 13-0094	EA		3 Pole, 240/480 Volt, 15-30 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	435.22	55.38
			<i>For Bolt-On, Add</i>	75.94	
			<i>For Installation In New Panelboard, Deduct</i>	-30.76	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0095	EA		3 Pole, 240/480 Volt, 35-60 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	435.22	55.38
			<i>For Bolt-On, Add</i>	75.94	
			<i>For Installation In New Panelboard, Deduct</i>	-30.76	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0096	EA		3 Pole, 240/480 Volt, 70-100 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	576.25	69.22
			<i>For Bolt-On, Add</i>	98.95	
			<i>For Installation In New Panelboard, Deduct</i>	-38.46	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0097	EA		3 Pole, 240/480 Volt, 110-125 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	1,034.76	83.06
			<i>For Bolt-On, Add</i>	161.65	
			<i>For Installation In New Panelboard, Deduct</i>	-46.15	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.37	
26 28 16 13-0098	EA		3 Pole, 240/480 Volt, 150-225 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	1,308.69	107.68
			<i>For Bolt-On, Add</i>	205.31	
			<i>For Installation In New Panelboard, Deduct</i>	-59.61	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	
26 28 16 13-0099	EA		3 Pole, 240/480 Volt, 250 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	2,060.93	124.60
			<i>For Bolt-On, Add</i>	306.07	
			<i>For Installation In New Panelboard, Deduct</i>	-69.22	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.06	
26 28 16 13-0100	EA		3 Pole, 240/480 Volt, 300-400 Amperes, Branch Circuit Breaker, 30,000 Amperes Interrupting Capacity .....	2,194.28	132.29
			<i>For Bolt-On, Add</i>	325.43	
			<i>For Installation In New Panelboard, Deduct</i>	-73.07	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	87.68	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0101		<b>Branch Circuit Breakers 35,000 Amperes Interrupting Capacity, Plug-On</b> <small>(26 28)</small>		
		<small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0102	EA	1 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	146.36	27.69
		For Bolt-On, Add	29.06	
		For Installation In New Panelboard, Deduct	-15.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0103	EA	1 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	146.36	27.69
		For Bolt-On, Add	29.06	
		For Installation In New Panelboard, Deduct	-15.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0104	EA	1 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	245.52	34.61
		For Bolt-On, Add	44.15	
		For Installation In New Panelboard, Deduct	-19.23	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0105	EA	2 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	306.98	41.53
		For Bolt-On, Add	54.52	
		For Installation In New Panelboard, Deduct	-23.07	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0106	EA	2 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	306.98	41.53
		For Bolt-On, Add	54.52	
		For Installation In New Panelboard, Deduct	-23.07	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0107	EA	2 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	548.23	55.38
		For Bolt-On, Add	90.06	
		For Installation In New Panelboard, Deduct	-30.76	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0108	EA	2 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	997.35	69.22
		For Bolt-On, Add	151.59	
		For Installation In New Panelboard, Deduct	-38.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0109	EA	2 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	1,911.87	86.14
		For Bolt-On, Add	272.63	
		For Installation In New Panelboard, Deduct	-48.07	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	57.68	
26 28 16 13-0110	EA	3 Pole, 480 Volt, 15-30 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	499.01	55.38
		For Bolt-On, Add	83.91	
		For Installation In New Panelboard, Deduct	-30.76	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0111	EA	3 Pole, 480 Volt, 35-60 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	499.01	55.38
		For Bolt-On, Add	83.91	
		For Installation In New Panelboard, Deduct	-30.76	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0112	EA	3 Pole, 480 Volt, 70-100 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	664.88	69.22
		For Bolt-On, Add	110.03	
		For Installation In New Panelboard, Deduct	-38.46	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0113	EA	3 Pole, 480 Volt, 110-125 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	1,227.37	83.06
		For Bolt-On, Add	185.72	
		For Installation In New Panelboard, Deduct	-46.15	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0114	EA	3 Pole, 480 Volt, 150-225 Amperes, Branch Circuit Breaker, 35,000 Amperes Interrupting Capacity .....	2,376.92	107.68
		For Bolt-On, Add	338.84	
		For Installation In New Panelboard, Deduct	-59.61	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.53	
26 28 16 13-0115		<b>Branch Circuit Breakers 42,000 Amperes Interrupting Capacity, Plug-On</b> <small>(26 28)</small>		
		<small>16 13-0001</small> Note: Includes connection of electrical wire.		
26 28 16 13-0116	EA	15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	207.65	27.69
		For Bolt-On, Add	36.72	
		For Installation In New Panelboard, Deduct	-15.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0117	EA	35 To 60 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity .....	207.65	27.69
		For Bolt-On, Add	36.72	
		For Installation In New Panelboard, Deduct	-15.38	
		Note: Also for use with new interiors in panelboards.		
		For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0118 EA 70 To 100 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	310.71	34.61
For Bolt-On, Add	52.30	
For Installation In New Panelboard, Deduct	-19.23	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.07	
26 28 16 13-0119 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	377.90	41.53
For Bolt-On, Add	63.39	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0120 EA 35 To 60 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	379.90	41.53
For Bolt-On, Add	63.39	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0121 EA 70 To 100 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	700.90	55.38
For Bolt-On, Add	109.15	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0122 EA 110 To 125 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	1,256.39	69.22
For Bolt-On, Add	183.97	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0123 EA 150 To 225 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	2,473.98	76.91
For Bolt-On, Add	338.86	
For Installation In New Panelboard, Deduct	-42.30	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.76	
26 28 16 13-0124 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	641.13	55.38
For Bolt-On, Add	101.68	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0125 EA 35 To 60 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	641.13	55.38
For Bolt-On, Add	101.68	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0126 EA 70 To 100 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	884.44	69.22
For Bolt-On, Add	137.47	
For Installation In New Panelboard, Deduct	-38.46	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.15	
26 28 16 13-0127 EA 110 To 125 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	1,419.99	83.06
For Bolt-On, Add	209.80	
For Installation In New Panelboard, Deduct	-46.15	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	55.37	
26 28 16 13-0128 EA 150 To 225 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 42,000 Amperes Interrupting Capacity.....	3,127.70	107.68
For Bolt-On, Add	432.69	
For Installation In New Panelboard, Deduct	-59.61	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	71.53	
<b>26 28 16 13-0129 Branch Circuit Breakers 65,000 Amperes Interrupting Capacity, Plug-On <sup>(26 28</sup></b>		
<sup>16 13-0001)</sup>		
Note: Includes connection of electrical wire.		
26 28 16 13-0130 EA 15 To 30 Amperes, 1 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	101.85	27.69
For Bolt-On, Add	23.50	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0131 EA 15 To 30 Amperes, 2 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	205.92	41.53
For Bolt-On, Add	41.89	
For Installation In New Panelboard, Deduct	-23.07	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	27.69	
26 28 16 13-0132 EA 15 To 30 Amperes, 3 Pole, 240 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	320.98	55.38
For Bolt-On, Add	61.66	
For Installation In New Panelboard, Deduct	-30.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	36.92	
26 28 16 13-0133 EA 15 To 30 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	197.15	27.69
For Bolt-On, Add	35.41	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	
26 28 16 13-0134 EA 35 To 60 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity.....	197.15	27.69
For Bolt-On, Add	35.41	
For Installation In New Panelboard, Deduct	-15.38	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	18.46	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 13-0135	EA	70 To 100 Amperes, 1 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	392.72	55.38
		<i>For Bolt-On, Add</i>	70.62	
		<i>For Installation In New Panelboard, Deduct</i>	-30.76	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0136	EA	15 To 30 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	436.31	41.53
		<i>For Bolt-On, Add</i>	70.69	
		<i>For Installation In New Panelboard, Deduct</i>	-23.07	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0137	EA	35 To 60 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	436.31	41.53
		<i>For Bolt-On, Add</i>	70.69	
		<i>For Installation In New Panelboard, Deduct</i>	-23.07	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	27.69	
26 28 16 13-0138	EA	70 To 100 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	832.56	55.38
		<i>For Bolt-On, Add</i>	125.60	
		<i>For Installation In New Panelboard, Deduct</i>	-30.76	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0139	EA	110 To 125 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	1,402.52	69.22
		<i>For Bolt-On, Add</i>	202.23	
		<i>For Installation In New Panelboard, Deduct</i>	-38.46	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0140	EA	150 To 225 Amperes, 2 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	3,059.13	86.14
		<i>For Bolt-On, Add</i>	416.04	
		<i>For Installation In New Panelboard, Deduct</i>	-48.07	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	57.68	
26 28 16 13-0141	EA	15 To 30 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	724.70	55.38
		<i>For Bolt-On, Add</i>	112.12	
		<i>For Installation In New Panelboard, Deduct</i>	-30.76	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0142	EA	35 To 60 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	724.70	55.38
		<i>For Bolt-On, Add</i>	112.12	
		<i>For Installation In New Panelboard, Deduct</i>	-30.76	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.92	
26 28 16 13-0143	EA	70 To 100 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	1,005.76	69.22
		<i>For Bolt-On, Add</i>	152.64	
		<i>For Installation In New Panelboard, Deduct</i>	-38.46	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.15	
26 28 16 13-0144	EA	110 To 125 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	1,526.26	83.06
		<i>For Bolt-On, Add</i>	223.08	
		<i>For Installation In New Panelboard, Deduct</i>	-46.15	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	55.37	
26 28 16 13-0145	EA	150 To 225 Amperes, 3 Pole, 480 Volt, Branch Circuit Breaker, 65,000 Amperes Interrupting Capacity .....	3,803.80	107.68
		<i>For Bolt-On, Add</i>	517.20	
		<i>For Installation In New Panelboard, Deduct</i>	-59.61	
		<i>Note: Also for use with new interiors in panelboards.</i>		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	71.53	
<b>26 28 16 16</b>		<b>Enclosed Switches <small>(26 28 16)</small></b>		
26 28 16 16-0001		<b>Motor And Circuit Disconnects <small>(26 28 16 16)</small></b> Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 16-0002		<b>NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0001)</small></b>		
26 28 16 16-0003		<b>Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small></b> Note: Includes fuses and neutral bar.		
26 28 16 16-0004		<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>		
26 28 16 16-0005	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	652.92	153.82
26 28 16 16-0006	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,061.29	185.35
26 28 16 16-0007	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,482.39	216.89
26 28 16 16-0008	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,572.91	341.49
26 28 16 16-0009	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	5,593.75	530.69
26 28 16 16-0010	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	9,404.34	784.49
26 28 16 16-0011	EA	800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	12,921.03	922.93
26 28 16 16-0012	EA	1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	17,448.92	1,076.75



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Circuit Protective Devices</b>	<b>26 28</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 16-0013</b>	<b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>	
26 28 16 16-0014 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,033.02	170.90
26 28 16 16-0015 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,246.57	205.97
26 28 16 16-0016 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,036.47	240.73
26 28 16 16-0017 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,995.96	379.94
26 28 16 16-0018 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,686.26	589.45
26 28 16 16-0019 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	10,453.13	871.25
26 28 16 16-0020 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	15,621.81	1,024.91
26 28 16 16-0021 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	21,469.50	1,196.43
<b>26 28 16 16-0022</b>	<b>240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>	
26 28 16 16-0023 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	914.51	241.50
26 28 16 16-0024 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,369.93	320.72
26 28 16 16-0025 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,891.42	356.10
26 28 16 16-0026 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,995.67	557.60
26 28 16 16-0027 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,372.96	915.24
26 28 16 16-0028 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	10,494.49	1,282.11
<b>26 28 16 16-0029</b>	<b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>	
26 28 16 16-0030 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,225.29	266.88
26 28 16 16-0031 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,546.97	356.10
26 28 16 16-0032 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,356.34	400.71
26 28 16 16-0033 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,456.78	610.68
26 28 16 16-0034 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	7,930.49	986.00
26 28 16 16-0035 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	12,862.52	1,424.38
26 28 16 16-0036 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	20,823.20	1,692.04
26 28 16 16-0037 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	26,767.33	1,922.77
<b>26 28 16 16-0038</b>	<b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>	
26 28 16 16-0039 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	881.35	241.50
26 28 16 16-0040 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,327.08	320.72
26 28 16 16-0041 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,813.46	356.10
26 28 16 16-0042 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,102.89	557.60
26 28 16 16-0043 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,977.22	915.24
26 28 16 16-0044 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	11,403.55	1,282.11
26 28 16 16-0045 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	19,188.75	1,615.13
26 28 16 16-0046 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	23,748.45	1,845.86
<b>26 28 16 16-0047</b>	<b>600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0003)</small></b>	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0048 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,346.96	266.88
26 28 16 16-0049 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,696.50	356.10
26 28 16 16-0050 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,574.97	400.71
26 28 16 16-0051 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,784.06	610.68
26 28 16 16-0052 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	8,628.75	986.00
26 28 16 16-0053 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	14,095.73	1,424.38
26 28 16 16-0054 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	22,870.63	1,692.04
26 28 16 16-0055 EA 1,200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	28,978.98	1,922.77
<b>26 28 16 16-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0002)</small>		
<b>26 28 16 16-0057 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0056)</small>		
26 28 16 16-0058 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	631.94	222.58
26 28 16 16-0059 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	996.95	309.64
26 28 16 16-0060 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,403.99	356.10
26 28 16 16-0061 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,194.77	569.75
26 28 16 16-0062 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,513.36	949.54
26 28 16 16-0063 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	7,489.35	1,294.87
26 28 16 16-0064 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	10,829.15	1,538.21
26 28 16 16-0065 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	14,399.92	1,795.25
<b>26 28 16 16-0066 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0056)</small>		
26 28 16 16-0067 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	698.11	245.65
26 28 16 16-0068 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,130.54	347.49
26 28 16 16-0069 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,589.79	395.63
26 28 16 16-0070 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,465.68	619.29
26 28 16 16-0071 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,856.73	1,017.37
26 28 16 16-0072 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	8,284.61	1,424.23
26 28 16 16-0073 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	12,080.72	1,538.21
26 28 16 16-0074 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	16,113.90	1,795.25
<b>26 28 16 16-0075 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0056)</small>		
26 28 16 16-0076 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	724.87	199.97
26 28 16 16-0077 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,126.22	278.42
26 28 16 16-0078 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,552.65	320.72
26 28 16 16-0079 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,433.84	512.99
26 28 16 16-0080 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,976.16	854.48
26 28 16 16-0081 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	8,149.38	1,165.20
26 28 16 16-0082 EA 800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	14,396.81	1,384.39
26 28 16 16-0083 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	18,873.62	1,615.13
<b>26 28 16 16-0084 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0056)</small>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0085 EA 30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	789.33	220.73
26 28 16 16-0086 EA 60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,234.80	313.03
26 28 16 16-0087 EA 100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,688.98	356.10
26 28 16 16-0088 EA 200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,623.60	557.60
26 28 16 16-0089 EA 400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,331.56	915.24
26 28 16 16-0090 EA 600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,798.07	1,282.11
26 28 16 16-0091 EA 800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	15,225.39	1,384.39
<b>26 28 16 16-0092 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small></b>		
26 28 16 16-0093 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	851.07	221.05
26 28 16 16-0094 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,340.09	312.72
26 28 16 16-0095 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,860.21	356.10
26 28 16 16-0096 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,887.34	557.29
26 28 16 16-0097 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,700.49	915.55
26 28 16 16-0098 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,889.92	1,281.80
26 28 16 16-0099 EA 800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	16,471.29	1,384.39
26 28 16 16-0100 EA 1,200 Amperes, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	21,666.22	1,615.13
<b>26 28 16 16-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small></b>		
26 28 16 16-0102 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,317.87	200.28
26 28 16 16-0103 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,570.97	278.73
26 28 16 16-0104 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,469.94	320.41
26 28 16 16-0105 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,688.39	512.68
<b>26 28 16 16-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small></b>		
26 28 16 16-0107 EA 30 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,424.85	220.73
26 28 16 16-0108 EA 60 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,711.37	313.03
26 28 16 16-0109 EA 100 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,671.82	356.10
26 28 16 16-0110 EA 200 Amperes, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,967.79	557.60
<b>26 28 16 16-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0056)</small></b>		
26 28 16 16-0112 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,596.69	221.05
26 28 16 16-0113 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,900.91	312.72
26 28 16 16-0114 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,012.67	356.10
26 28 16 16-0115 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,464.32	557.29
<b>26 28 16 16-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0002)</small></b>		
<small>Note: Includes fuses and neutral bar.</small>		
<b>26 28 16 16-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0116)</small></b>		
26 28 16 16-0118 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	437.52	133.82
26 28 16 16-0119 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	608.59	161.05

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0120 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	970.41	188.28
26 28 16 16-0121 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,825.92	297.03
26 28 16 16-0122 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,484.34	460.69
26 28 16 16-0123 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	8,489.73	681.89
<b>26 28 16 16-0124 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0116)</small>		
26 28 16 16-0125 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	589.94	210.28
26 28 16 16-0126 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	843.22	278.73
26 28 16 16-0127 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,213.10	309.64
26 28 16 16-0128 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,203.21	484.70
26 28 16 16-0129 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	5,159.76	796.18
26 28 16 16-0130 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	9,364.10	1,114.59
<b>26 28 16 16-0131 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0116)</small>		
26 28 16 16-0132 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	670.11	210.28
26 28 16 16-0133 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	972.49	278.73
26 28 16 16-0134 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,330.73	309.64
26 28 16 16-0135 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,499.56	484.70
26 28 16 16-0136 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	5,666.31	796.18
26 28 16 16-0137 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	9,685.20	1,114.59
<b>26 28 16 16-0138 General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0002)</small>		
<b>26 28 16 16-0139 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0138)</small>		
26 28 16 16-0140 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	595.89	186.12
26 28 16 16-0141 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	812.52	213.96
26 28 16 16-0142 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,916.54	341.95
26 28 16 16-0143 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,204.88	569.14
26 28 16 16-0144 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	7,399.92	775.57
<b>26 28 16 16-0145 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0138)</small>		
26 28 16 16-0146 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	563.89	174.12
26 28 16 16-0147 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	770.53	242.27
26 28 16 16-0148 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,223.73	278.73
26 28 16 16-0149 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,125.66	445.93
26 28 16 16-0150 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,554.64	743.27
26 28 16 16-0151 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	7,878.64	1,013.07
<b>26 28 16 16-0152 NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0001)</small>		
<b>26 28 16 16-0153 Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 16-0154</b> <b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26)</sup> <small>28 16 16-0153)</small>		
26 28 16 16-0155     EA     30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	984.85	180.74
26 28 16 16-0156     EA     60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,607.30	216.89
26 28 16 16-0157     EA     100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,019.67	252.27
26 28 16 16-0158     EA     200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,947.53	384.55
26 28 16 16-0159     EA     400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,647.80	615.28
26 28 16 16-0160     EA     600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,799.13	820.64
26 28 16 16-0161     EA     800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,867.10	922.93
26 28 16 16-0162     EA     1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	23,759.93	1,076.75
<b>26 28 16 16-0163</b> <b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26)</sup> <small>28 16 16-0153)</small>		
26 28 16 16-0164     EA     30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,735.27	240.88
26 28 16 16-0165     EA     60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,061.48	295.34
26 28 16 16-0166     EA     100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,972.00	339.17
26 28 16 16-0167     EA     200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,169.61	508.69
26 28 16 16-0168     EA     400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,231.54	832.33
26 28 16 16-0169     EA     600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,198.57	1,144.59
26 28 16 16-0170     EA     800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	25,495.88	1,317.94
26 28 16 16-0171     EA     1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	28,067.92	1,483.61
<b>26 28 16 16-0172</b> <b>240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26)</sup> <small>28 16 16-0153)</small>		
26 28 16 16-0173     EA     30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,225.14	284.57
26 28 16 16-0174     EA     60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,987.86	376.87
26 28 16 16-0175     EA     100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,419.37	413.78
26 28 16 16-0176     EA     200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,571.41	640.67
26 28 16 16-0177     EA     400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,906.21	1,068.29
26 28 16 16-0178     EA     600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,393.99	1,424.38
<b>26 28 16 16-0179</b> <b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26)</sup> <small>28 16 16-0153)</small>		
26 28 16 16-0180     EA     30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,931.91	337.33
26 28 16 16-0181     EA     60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,298.69	413.47
26 28 16 16-0182     EA     100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,122.92	474.70
26 28 16 16-0183     EA     200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,523.59	712.19
26 28 16 16-0184     EA     400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	9,718.31	1,165.35
26 28 16 16-0185     EA     600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	17,843.48	1,602.36
26 28 16 16-0186     EA     800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	25,502.24	1,845.86
26 28 16 16-0187     EA     1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	30,603.48	2,076.59
<b>26 28 16 16-0188</b> <b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26)</sup> <small>28 16 16-0153)</small>		

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0189 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,361.10	284.57
26 28 16 16-0190 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,991.80	376.87
26 28 16 16-0191 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,610.54	413.78
26 28 16 16-0192 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,698.91	640.67
26 28 16 16-0193 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	8,023.17	1,068.29
26 28 16 16-0194 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	14,680.51	1,424.38
26 28 16 16-0195 EA 800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	24,942.07	1,615.13
26 28 16 16-0196 EA 1,200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	31,187.04	1,845.86
<b>26 28 16 16-0197 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26</sup></b>		
<small><sup>28 16 16-0193)</sup></small>		
26 28 16 16-0198 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,009.92	337.64
26 28 16 16-0199 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,386.39	413.78
26 28 16 16-0200 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,317.84	474.54
26 28 16 16-0201 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	4,650.30	712.19
26 28 16 16-0202 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	10,176.38	1,165.20
26 28 16 16-0203 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	18,369.77	1,602.05
26 28 16 16-0204 EA 800 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	27,159.48	1,845.86
26 28 16 16-0205 EA 1,200 Amperes, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	32,787.94	2,076.59
<b>26 28 16 16-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26 28 16 16-0152)</sup></b>		
<b>26 28 16 16-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26 28 16 16-0206)</sup></b>		
26 28 16 16-0208 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	942.72	158.29
26 28 16 16-0209 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,562.16	219.19
26 28 16 16-0210 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,075.38	251.35
26 28 16 16-0211 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,719.04	407.01
26 28 16 16-0212 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	6,186.10	678.96
26 28 16 16-0213 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	11,475.09	905.24
26 28 16 16-0214 EA 800 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	18,682.86	1,077.21
26 28 16 16-0215 EA 1,200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	24,775.30	1,231.04
<b>26 28 16 16-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26 28 16 16-0206)</sup></b>		
26 28 16 16-0217 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,063.60	174.43
26 28 16 16-0218 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,772.75	244.12
26 28 16 16-0219 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,348.20	275.65
26 28 16 16-0220 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,031.94	427.32
26 28 16 16-0221 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	7,054.70	712.19
26 28 16 16-0222 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	12,405.51	949.54
26 28 16 16-0223 EA 800 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	19,936.66	1,128.44
26 28 16 16-0224 EA 1,200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	26,430.54	1,281.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 16-0225</b> <b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0206)</small>		
26 28 16 16-0226    EA    30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,100.98	237.34
26 28 16 16-0227    EA    60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,781.29	328.71
26 28 16 16-0228    EA    100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,326.72	377.02
26 28 16 16-0229    EA    200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,125.98	610.51
26 28 16 16-0230    EA    400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	6,962.95	1,018.30
26 28 16 16-0231    EA    600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	12,572.09	1,357.48
26 28 16 16-0232    EA    800 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	19,974.23	1,615.13
26 28 16 16-0233    EA    1,200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	26,615.32	1,845.86
<b>26 28 16 16-0234</b> <b>480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0206)</small>		
26 28 16 16-0235    EA    30 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,194.15	261.50
26 28 16 16-0236    EA    60 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,936.70	366.25
26 28 16 16-0237    EA    100 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,512.01	413.47
26 28 16 16-0238    EA    200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,323.11	640.98
26 28 16 16-0239    EA    400 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	7,414.39	1,068.13
26 28 16 16-0240    EA    600 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	13,408.89	1,424.23
26 28 16 16-0241    EA    800 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	21,323.74	1,692.04
26 28 16 16-0242    EA    1,200 Amperes, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	28,404.01	1,922.77
<b>26 28 16 16-0243</b> <b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0206)</small>		
26 28 16 16-0244    EA    30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	573.93	261.50
26 28 16 16-0245    EA    60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,016.92	366.25
26 28 16 16-0246    EA    100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,623.86	413.47
26 28 16 16-0247    EA    200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,459.23	640.98
26 28 16 16-0248    EA    400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	7,766.84	1,068.13
26 28 16 16-0249    EA    600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	13,355.03	1,424.23
26 28 16 16-0250    EA    800 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	21,293.57	1,692.04
26 28 16 16-0251    EA    1,200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	28,362.95	1,922.77
<b>26 28 16 16-0252</b> <b>General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0152)</small>		
Note: With fuses, neutral bar, and hub if required.		
<b>26 28 16 16-0253</b> <b>240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <small>(26 28 16 16-0252)</small>		
26 28 16 16-0254    EA    30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	575.24	157.20
26 28 16 16-0255    EA    60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	831.09	188.59
26 28 16 16-0256    EA    100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,109.62	219.35
26 28 16 16-0257    EA    200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,343.03	334.40
26 28 16 16-0258    EA    400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,895.97	534.99
26 28 16 16-0259    EA    600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,588.03	713.73

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
26 28 16 16-0260		<b>240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0260)</sup>			
26 28 16 16-0261	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	757.28		247.80
26 28 16 16-0262	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,110.35		327.79
26 28 16 16-0263	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,389.58		359.64
26 28 16 16-0264	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,790.56		557.29
26 28 16 16-0265	EA	400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	6,687.58		928.77
26 28 16 16-0266	EA	600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	11,652.44		1,238.88
26 28 16 16-0267		<b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0267)</sup>			
26 28 16 16-0268	EA	30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	869.70		247.65
26 28 16 16-0269	EA	60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,222.91		327.79
26 28 16 16-0270	EA	100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,752.30		359.64
26 28 16 16-0271	EA	200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,024.89		557.29
26 28 16 16-0272	EA	400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	6,838.10		928.93
26 28 16 16-0273	EA	600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	12,828.31		1,238.88
26 28 16 16-0274	EA	800 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	18,546.37		1,403.47
26 28 16 16-0275		<b>General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0152)</sup>			
26 28 16 16-0276		<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0275)</sup>			
26 28 16 16-0277	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	521.55		137.67
26 28 16 16-0278	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	873.77		190.58
26 28 16 16-0279	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	907.78		218.58
26 28 16 16-0280	EA	200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,382.90		353.79
26 28 16 16-0281	EA	400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	6,008.33		590.37
26 28 16 16-0282	EA	600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	10,740.08		787.10
26 28 16 16-0283		<b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 16-0275)</sup>			
26 28 16 16-0284	EA	30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	821.67		206.43
26 28 16 16-0285	EA	60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,189.43		285.80
26 28 16 16-0286	EA	100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,794.47		327.79
26 28 16 16-0287	EA	200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,103.33		530.84
26 28 16 16-0288		<b>NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0001)</sup>			
26 28 16 16-0289		<b>Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0288)</sup>			
		Note: With fuses and neutral bar (stainless steel).			
26 28 16 16-0290		<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 16-0289)</sup>			
26 28 16 16-0291	EA	30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,805.97		153.82
26 28 16 16-0292	EA	60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,370.35		185.35
26 28 16 16-0293	EA	100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	6,970.49		216.58



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Circuit Protective Devices</b>	<b>26 28</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0294 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	9,616.31	341.80
26 28 16 16-0295 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	19,646.09	530.38
26 28 16 16-0296 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	28,227.04	784.18
<b>26 28 16 16-0297 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0298 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,575.07	170.90
26 28 16 16-0299 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,966.37	205.81
26 28 16 16-0300 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	7,532.72	240.58
26 28 16 16-0301 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	10,622.56	379.94
26 28 16 16-0302 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	20,379.81	589.75
26 28 16 16-0303 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	29,206.78	871.25
<b>26 28 16 16-0304 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0305 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,112.73	241.81
26 28 16 16-0306 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,891.30	320.41
26 28 16 16-0307 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	7,572.86	356.10
26 28 16 16-0308 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	10,735.09	557.29
26 28 16 16-0309 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	21,031.39	915.55
26 28 16 16-0310 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	30,028.04	1,281.80
<b>26 28 16 16-0311 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0312 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,777.42	267.04
26 28 16 16-0313 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,277.85	356.10
26 28 16 16-0314 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	7,874.57	400.55
26 28 16 16-0315 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	11,114.13	610.36
26 28 16 16-0316 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	21,696.37	986.00
26 28 16 16-0317 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	30,860.62	1,424.23
<b>26 28 16 16-0318 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0319 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,748.44	241.81
26 28 16 16-0320 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,686.01	320.41
26 28 16 16-0321 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	9,163.06	356.10
26 28 16 16-0322 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	12,909.62	557.29
26 28 16 16-0323 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	25,311.13	915.55
26 28 16 16-0324 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	35,909.44	1,281.80
<b>26 28 16 16-0325 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0289)</small></b>		
26 28 16 16-0326 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,528.59	267.04
26 28 16 16-0327 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	5,129.65	356.10
26 28 16 16-0328 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	9,497.76	400.55

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0329 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	13,306.83	610.36
26 28 16 16-0330 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	26,033.86	986.00
26 28 16 16-0331 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	36,822.21	1,424.23
<b>26 28 16 16-0332 Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0288)</small>		
<b>26 28 16 16-0333 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0332)</small>		
26 28 16 16-0334 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,688.66	153.82
26 28 16 16-0335 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,257.14	213.96
26 28 16 16-0336 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	6,221.68	246.12
26 28 16 16-0337 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	8,602.49	393.17
26 28 16 16-0338 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	15,696.63	654.66
26 28 16 16-0339 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	22,507.78	891.86
<b>26 28 16 16-0340 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0332)</small>		
26 28 16 16-0341 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,060.62	169.67
26 28 16 16-0342 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,713.04	239.96
26 28 16 16-0343 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	7,094.84	273.50
26 28 16 16-0344 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	9,787.41	427.32
26 28 16 16-0345 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	17,849.17	703.28
26 28 16 16-0346 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	25,653.77	984.46
<b>26 28 16 16-0347 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0332)</small>		
26 28 16 16-0348 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,781.59	200.28
26 28 16 16-0349 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,341.41	278.73
26 28 16 16-0350 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,470.01	320.41
26 28 16 16-0351 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	6,754.90	512.68
26 28 16 16-0352 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	9,525.21	854.63
26 28 16 16-0353 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	23,737.20	1,165.35
<b>26 28 16 16-0354 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0332)</small>		
26 28 16 16-0355 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,163.16	221.05
26 28 16 16-0356 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	3,858.53	312.72
26 28 16 16-0357 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	7,260.03	356.10
26 28 16 16-0358 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	10,047.30	557.29
26 28 16 16-0359 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	20,174.33	915.55
26 28 16 16-0360 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	27,028.34	1,281.80
<b>26 28 16 16-0361 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0332)</small>		





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0362	EA			30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 3,868.39	3,868.39	200.28
26 28 16 16-0363	EA			60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 4,616.16	4,616.16	278.73
26 28 16 16-0364	EA			100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 10,565.27	10,565.27	320.41
26 28 16 16-0365	EA			200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 16,103.41	16,103.41	512.68
<b>26 28 16 16-0366</b>				<b>600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0332)</small>		
26 28 16 16-0367	EA			30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 4,405.22	4,405.22	221.05
26 28 16 16-0368	EA			60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 5,263.96	5,263.96	312.72
26 28 16 16-0369	EA			100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 12,054.24	12,054.24	356.10
26 28 16 16-0370	EA			200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 18,346.56	18,346.56	557.29
<b>26 28 16 16-0371</b>				<b>Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0288)</small>		
<b>26 28 16 16-0372</b>				<b>600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0371)</small>		
26 28 16 16-0373	EA			30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 5,117.20	5,117.20	266.88
26 28 16 16-0374	EA			60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 5,803.04	5,803.04	356.10
26 28 16 16-0375	EA			100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 10,569.45	10,569.45	400.71
26 28 16 16-0376	EA			200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 13,705.97	13,705.97	610.68
<b>26 28 16 16-0377</b>				<b>600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0371)</small>		
26 28 16 16-0378	EA			30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 4,808.71	4,808.71	220.73
26 28 16 16-0379	EA			60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 5,478.37	5,478.37	313.03
26 28 16 16-0380	EA			100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 10,004.76	10,004.76	356.10
26 28 16 16-0381	EA			200 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 13,556.94	13,556.94	557.60
<b>26 28 16 16-0382</b>				<b>Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0288)</small>		
<b>26 28 16 16-0383</b>				<b>600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0382)</small>		
26 28 16 16-0384	EA			30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 5,873.56	5,873.56	266.88
26 28 16 16-0385	EA			60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 6,649.38	6,649.38	356.10
26 28 16 16-0386	EA			100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 12,170.00	12,170.00	400.71
<b>26 28 16 16-0387</b>				<b>600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0382)</small>		
26 28 16 16-0388	EA			30 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 5,524.35	5,524.35	220.73
26 28 16 16-0389	EA			60 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 6,279.71	6,279.71	313.03
26 28 16 16-0390	EA			100 Amperes, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 11,541.03	11,541.03	356.10
<b>26 28 16 16-0391</b>				<b>NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0001)</small>		
				Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
<b>26 28 16 16-0392</b>				<b>Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0391)</small>		
				Note: With fuses and neutral bar.		
26 28 16 16-0393	EA			30 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch ..... 4,589.47	4,589.47	307.65
26 28 16 16-0394	EA			60 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch ..... 5,171.50	5,171.50	366.25
26 28 16 16-0395	EA			100 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch ..... 5,730.82	5,730.82	413.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0396 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	12,298.03	640.98
<b>26 28 16 16-0397 Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0391)</small>		
26 28 16 16-0398 EA 60 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	3,490.95	366.25
26 28 16 16-0399 EA 100 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	4,094.15	413.47
26 28 16 16-0400 EA 200 Amperes, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch .....	7,595.85	640.98
<b>26 28 16 16-0401 NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0001)</small>		
<b>26 28 16 16-0402 Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0401)</small>		
Note: With fuses and neutral bar.		
<b>26 28 16 16-0403 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0404 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	967.47	153.82
26 28 16 16-0405 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,272.42	185.35
26 28 16 16-0406 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,757.31	216.89
26 28 16 16-0407 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,977.64	341.49
26 28 16 16-0408 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	6,470.00	530.69
26 28 16 16-0409 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	11,782.40	784.49
<b>26 28 16 16-0410 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0411 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,560.12	170.74
26 28 16 16-0412 EA 60 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,591.38	206.12
26 28 16 16-0413 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,324.73	240.73
26 28 16 16-0414 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,635.13	379.94
26 28 16 16-0415 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	8,070.22	589.14
26 28 16 16-0416 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	16,136.78	871.40
<b>26 28 16 16-0417 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0418 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,328.27	241.50
26 28 16 16-0419 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,848.41	320.72
26 28 16 16-0420 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,570.63	356.10
26 28 16 16-0421 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,804.50	557.60
26 28 16 16-0422 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	7,571.73	915.24
26 28 16 16-0423 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	12,265.19	1,282.11
<b>26 28 16 16-0424 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		
26 28 16 16-0425 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,801.14	266.88
26 28 16 16-0426 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,008.38	356.10
26 28 16 16-0427 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,033.04	400.71
26 28 16 16-0428 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,398.10	610.68
26 28 16 16-0429 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	9,388.97	986.00
26 28 16 16-0430 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	17,916.27	1,424.38
<b>26 28 16 16-0431 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 16-0402)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0432 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,429.12	241.50
26 28 16 16-0433 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,917.70	320.72
26 28 16 16-0434 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,788.09	356.10
26 28 16 16-0435 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,077.52	557.60
26 28 16 16-0436 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	8,302.73	915.24
26 28 16 16-0437 EA 600 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	12,759.04	1,282.11
<b>26 28 16 16-0438 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0402)</small></b>		
26 28 16 16-0439 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,918.06	266.88
26 28 16 16-0440 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,320.27	356.10
26 28 16 16-0441 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,247.49	400.71
26 28 16 16-0442 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,807.43	610.68
26 28 16 16-0443 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	10,051.70	986.00
26 28 16 16-0444 EA 600 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	18,462.05	1,424.38
<b>26 28 16 16-0445 Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0401)</small></b>		
<b>26 28 16 16-0446 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small></b>		
26 28 16 16-0447 EA 30 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,016.55	222.27
26 28 16 16-0448 EA 60 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,342.10	309.95
26 28 16 16-0449 EA 100 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,801.98	356.10
26 28 16 16-0450 EA 200 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,544.91	569.90
26 28 16 16-0451 EA 400 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	5,722.07	949.85
26 28 16 16-0452 EA 600 Amperes, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	9,147.36	1,295.18
<b>26 28 16 16-0453 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small></b>		
26 28 16 16-0454 EA 30 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,134.10	245.35
26 28 16 16-0455 EA 60 Amperes, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase.....	1,490.44	347.64
26 28 16 16-0456 EA 100 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,008.90	395.32
26 28 16 16-0457 EA 200 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,765.00	619.13
26 28 16 16-0458 EA 400 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,052.80	1,017.52
26 28 16 16-0459 EA 600 Amperes, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	10,107.16	1,424.38
<b>26 28 16 16-0460 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small></b>		
26 28 16 16-0461 EA 30 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,307.86	199.97
26 28 16 16-0462 EA 60 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,711.24	278.42
26 28 16 16-0463 EA 100 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,310.13	320.72
26 28 16 16-0464 EA 200 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,262.84	512.99
26 28 16 16-0465 EA 400 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,014.06	854.48
26 28 16 16-0466 EA 600 Amperes, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	11,183.18	1,165.20
<b>26 28 16 16-0467 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 16-0445)</small></b>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0468 EA 30 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,264.61	220.73
26 28 16 16-0469 EA 60 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,843.58	313.03
26 28 16 16-0470 EA 100 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,466.46	356.10
26 28 16 16-0471 EA 200 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,190.60	557.60
26 28 16 16-0472 EA 400 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	7,006.48	915.24
26 28 16 16-0473 EA 600 Amperes, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	13,382.06	1,282.11
<b>26 28 16 16-0474 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <sup>(26 28 16 16-0445)</sup></b>		
26 28 16 16-0475 EA 30 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,596.38	199.97
26 28 16 16-0476 EA 60 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,875.31	278.42
26 28 16 16-0477 EA 100 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,982.32	320.72
26 28 16 16-0478 EA 200 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,726.34	512.99
26 28 16 16-0479 EA 400 Amperes, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	8,720.18	653.74
<b>26 28 16 16-0480 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <sup>(26 28 16 16-0445)</sup></b>		
26 28 16 16-0481 EA 30 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,650.56	220.73
26 28 16 16-0482 EA 60 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,038.51	313.03
26 28 16 16-0483 EA 100 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,177.94	356.10
26 28 16 16-0484 EA 200 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,837.70	557.60
26 28 16 16-0485 EA 400 Amperes, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	9,173.66	861.40
<b>26 28 16 16-0486 Double Throw Safety Switches <sup>(26 28 16 16-0001)</sup></b>		
<b>26 28 16 16-0487 NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <sup>(26 28 16 16-0486)</sup></b>		
<b>26 28 16 16-0488 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <sup>(26 28 16 16-0487)</sup></b>		
26 28 16 16-0489 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,211.63	197.66
26 28 16 16-0490 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,809.83	258.42
26 28 16 16-0491 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,553.19	337.64
26 28 16 16-0492 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,411.25	439.16
26 28 16 16-0493 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,530.46	549.14
26 28 16 16-0494 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	15,589.45	880.63
26 28 16 16-0495 EA 800 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	17,753.86	1,230.58
26 28 16 16-0496 EA 1,000 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	26,416.46	1,384.39
26 28 16 16-0497 EA 1,200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	31,180.90	1,538.21
<b>26 28 16 16-0498 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <sup>(26 28 16 16-0487)</sup></b>		
26 28 16 16-0499 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,512.87	276.88
26 28 16 16-0500 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,126.46	361.48
26 28 16 16-0501 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,243.22	473.01
26 28 16 16-0502 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,809.19	615.28
26 28 16 16-0503 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,747.72	769.11
26 28 16 16-0504 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	16,299.20	1,230.58
26 28 16 16-0505 EA 800 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	19,114.66	1,384.39
26 28 16 16-0506 EA 1,000 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	27,599.03	1,538.21
26 28 16 16-0507 EA 1,200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	32,798.89	1,692.04
<b>26 28 16 16-0508 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <sup>(26 28 16 16-0487)</sup></b>		
26 28 16 16-0509 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,023.00	346.09
26 28 16 16-0510 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,973.60	452.24
26 28 16 16-0511 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,401.68	590.67



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 16-0512 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,423.49	767.57
26 28 16 16-0513 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	15,306.03	961.39
26 28 16 16-0514 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	19,174.23	1,540.53
26 28 16 16-0515 EA 800 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	24,419.26	1,692.04
26 28 16 16-0516 EA 1,000 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	32,767.79	1,768.95
26 28 16 16-0517 EA 1,200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	36,836.23	1,845.86
<b>26 28 16 16-0518 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>		
26 28 16 16-0519 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	2,113.74	258.42
26 28 16 16-0520 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,208.67	337.64
26 28 16 16-0521 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	4,764.09	439.16
26 28 16 16-0522 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	11,521.53	549.14
26 28 16 16-0523 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	16,989.08	880.63
26 28 16 16-0524 EA 800 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	19,283.20	1,230.58
26 28 16 16-0525 EA 1,000 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	28,781.22	1,384.39
26 28 16 16-0526 EA 1,200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	33,991.35	1,538.21
<b>26 28 16 16-0527 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>		
26 28 16 16-0528 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	2,319.61	361.48
26 28 16 16-0529 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,478.52	473.01
26 28 16 16-0530 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,114.89	615.28
26 28 16 16-0531 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	11,961.11	769.11
26 28 16 16-0532 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	17,691.44	1,230.58
26 28 16 16-0533 EA 800 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	20,749.25	1,384.39
26 28 16 16-0534 EA 1,000 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	28,766.76	1,538.21
26 28 16 16-0535 EA 1,200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	35,740.38	1,692.04
<b>26 28 16 16-0536 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0487)</small></b>		
26 28 16 16-0537 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,163.58	452.24
26 28 16 16-0538 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,677.38	590.67
26 28 16 16-0539 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,991.20	767.57
26 28 16 16-0540 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	16,517.86	961.39
26 28 16 16-0541 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	20,532.93	1,540.53
26 28 16 16-0542 EA 800 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	26,522.78	1,692.04
26 28 16 16-0543 EA 1,000 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	35,690.79	1,768.95
26 28 16 16-0544 EA 1,200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	40,150.67	1,845.86
<b>26 28 16 16-0545 NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small></b>		
<b>26 28 16 16-0546 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small></b>		
26 28 16 16-0547 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,242.31	337.64
26 28 16 16-0548 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,641.02	439.16
26 28 16 16-0549 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	25,569.52	549.14
26 28 16 16-0550 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	44,078.96	880.63
<b>26 28 16 16-0551 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small></b>		
26 28 16 16-0552 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	4,231.42	472.23
26 28 16 16-0553 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	6,922.37	614.51
26 28 16 16-0554 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	25,339.68	769.11
26 28 16 16-0555 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	28,273.68	1,232.88
<b>26 28 16 16-0556 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small></b>		
26 28 16 16-0557 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	4,144.91	346.25
26 28 16 16-0558 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,125.96	451.93
26 28 16 16-0559 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,215.20	590.52
26 28 16 16-0560 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	10,485.25	767.88
26 28 16 16-0561 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	18,014.33	961.39
26 28 16 16-0562 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch .....	20,759.85	1,540.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 16-0563</b>	<b>600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small></b>	
26 28 16 16-0564 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,766.99	258.42
26 28 16 16-0565 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,245.54	337.64
26 28 16 16-0566 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,835.65	439.16
26 28 16 16-0567 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch....	15,257.54	549.14
26 28 16 16-0568 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch...20,	299.32	880.63
<b>26 28 16 16-0569</b>	<b>600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small></b>	
26 28 16 16-0570 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,092.33	361.48
26 28 16 16-0571 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,703.71	472.23
26 28 16 16-0572 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,552.55	614.51
26 28 16 16-0573 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch...16,	442.39	769.11
26 28 16 16-0574 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch...21,	976.17	1,232.88
<b>26 28 16 16-0575</b>	<b>600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0545)</small></b>	
26 28 16 16-0576 EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,170.02	451.93
26 28 16 16-0577 EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,235.40	590.52
26 28 16 16-0578 EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,765.88	767.88
26 28 16 16-0579 EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch...17,	981.20	961.39
26 28 16 16-0580 EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch...20,	942.49	1,540.68
<b>26 28 16 16-0581</b>	<b>NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0486)</small></b>	
<b>26 28 16 16-0582</b>	<b>240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small></b>	
26 28 16 16-0583 EA 30 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,365.64	197.82
26 28 16 16-0584 EA 60 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,791.58	258.27
26 28 16 16-0585 EA 100 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	4,262.60	337.49
26 28 16 16-0586 EA 200 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,875.02	438.86
26 28 16 16-0587 EA 400 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ....	11,142.81	549.30
26 28 16 16-0588 EA 600 Amperes, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...16,	294.36	880.32
<b>26 28 16 16-0589</b>	<b>240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small></b>	
26 28 16 16-0590 EA 30 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,837.22	276.88
26 28 16 16-0591 EA 60 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	4,518.14	361.48
26 28 16 16-0592 EA 100 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,335.15	472.23
26 28 16 16-0593 EA 200 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,465.53	614.51
26 28 16 16-0594 EA 400 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ....	13,821.43	769.11
26 28 16 16-0595 EA 600 Amperes, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...18,	131.54	1,232.88
<b>26 28 16 16-0596</b>	<b>240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small></b>	
26 28 16 16-0597 EA 30 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,774.65	346.25
26 28 16 16-0598 EA 60 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	6,727.76	451.93
26 28 16 16-0599 EA 100 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	9,241.74	590.52
26 28 16 16-0600 EA 200 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...12,	574.02	767.88
26 28 16 16-0601 EA 400 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ....	23,559.48	961.39
26 28 16 16-0602 EA 600 Amperes, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...29,	062.23	1,540.68
<b>26 28 16 16-0603</b>	<b>600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small></b>	
26 28 16 16-0604 EA 60 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,052.49	258.27
26 28 16 16-0605 EA 100 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,272.66	337.49
26 28 16 16-0606 EA 200 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...10,	119.22	438.86
26 28 16 16-0607 EA 400 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...14,	854.20	549.30
26 28 16 16-0608 EA 600 Amperes, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...19,	588.47	880.32
<b>26 28 16 16-0609</b>	<b>600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 16-0581)</small></b>	
26 28 16 16-0610 EA 60 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,497.77	361.48
26 28 16 16-0611 EA 100 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,784.72	472.23
26 28 16 16-0612 EA 200 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...10,	955.95	614.51
26 28 16 16-0613 EA 400 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...15,	806.72	769.11
26 28 16 16-0614 EA 600 Amperes, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...21,	227.14	1,232.88



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 28 16 16-0615	<b>600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 16-0581)</small>	
26 28 16 16-0616	EA 60 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	6,799.59 451.93
26 28 16 16-0617	EA 100 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch .....	9,771.63 590.52
26 28 16 16-0618	EA 200 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	12,886.34 767.88
26 28 16 16-0619	EA 400 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	24,231.75 961.39
26 28 16 16-0620	EA 600 Amperes, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch ...	29,953.31 1,540.68

26 28 16 16-0621	<b>Removal And Reinstallation Of Disconnect Switches</b> <small>(26 28 16 16-0001)</small>	
Note: Includes storage and cleaning.		
26 28 16 16-0622	EA Removal And Reinstallation Of Up To 100 Amperes Safety Disconnect Switch .....	769.11
26 28 16 16-0623	EA Removal And Reinstallation Of >100 To 200 Amperes Safety Disconnect Switch .....	999.88
26 28 16 16-0624	EA Removal And Reinstallation Of >200 To 300 Amperes Safety Disconnect Switch .....	1,115.30
26 28 16 16-0625	EA Removal And Reinstallation Of >300 To 400 Amperes Safety Disconnect Switch .....	1,307.56

26 28 16 16-0626	<b>Bolted Contact Switches</b> <small>(26 28 16 16)</small>	
Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		

26 28 16 16-0627	<b>Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 16-0626)</small>	
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26 28 16 16-0628	<b>Top Feed, Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 16-0627)</small>	
26 28 16 16-0629	EA 800 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480) .....	10,686.45 1,538.21
26 28 16 16-0630	EA 1,200 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480) .....	11,628.24 1,845.86
26 28 16 16-0631	EA 1,600 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480) .....	12,701.88 2,153.50
26 28 16 16-0632	EA 2,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480) .....	13,474.15 2,461.14
26 28 16 16-0633	EA 2,500 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480) .....	15,213.36 2,768.79
26 28 16 16-0634	EA 3,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480) .....	18,949.25 3,076.43
26 28 16 16-0635	EA 4,000 Amperes, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480) .....	25,391.30 3,691.72

26 28 16 16-0636	<b>Bottom Feed, Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 16-0627)</small>	
26 28 16 16-0637	EA 800 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480) .....	11,295.50 1,538.21
26 28 16 16-0638	EA 1,200 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480) .....	12,356.60 1,845.86
26 28 16 16-0639	EA 1,600 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480) .....	13,423.96 2,153.50
26 28 16 16-0640	EA 2,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480) .....	14,510.16 2,461.14
26 28 16 16-0641	EA 2,500 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480) .....	16,331.00 2,768.79
26 28 16 16-0642	EA 3,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480) .....	21,046.40 3,076.43
26 28 16 16-0643	EA 4,000 Amperes, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480) .....	27,576.36 3,691.72

26 28 16 16-0644	<b>Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 16-0626)</small>	
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26 28 16 16-0645	<b>Top Feed, Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 16-0644)</small>	
26 28 16 16-0646	EA 800 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480) .....	7,948.85 1,538.21
26 28 16 16-0647	EA 1,200 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480) .....	8,923.30 1,845.86
26 28 16 16-0648	EA 1,600 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480) .....	9,949.22 2,153.50
26 28 16 16-0649	EA 2,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480) .....	10,967.61 2,461.14
26 28 16 16-0650	EA 2,500 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480) .....	12,048.79 2,768.79
26 28 16 16-0651	EA 3,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480) .....	15,784.68 3,076.43
26 28 16 16-0652	EA 4,000 Amperes, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480) .....	22,151.39 3,691.72

26 28 16 16-0653	<b>Bottom Feed, Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 16-0644)</small>	
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26 28 16 16-0654	EA 800 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480) .....	8,351.96 1,538.21
26 28 16 16-0655	EA 1,200 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480) .....	9,532.35 1,845.86
26 28 16 16-0656	EA 1,600 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480) .....	10,539.43 2,153.50
26 28 16 16-0657	EA 2,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480) .....	11,747.45 2,461.14
26 28 16 16-0658	EA 2,500 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480) .....	13,028.30 2,768.79
26 28 16 16-0659	EA 3,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480) .....	17,724.86 3,076.43
26 28 16 16-0660	EA 4,000 Amperes, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480) .....	24,185.75 3,691.72

**26 29 Low-Voltage Controllers** (26 20)

**26 29 13 Enclosed Controllers** (26 29)

**26 29 13 13 Across-The-Line Motor Controllers** (26 29 13)

**26 29 13 13-001 Manual Motor Starters** (26 29 13 13)

**26 29 13 13-002 Fractional HP Manual Motor Starters** (26 29 13 13-0001)

26 29 13 13-0003	EA NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1) .....	263.69 77.01
For Flush Cover Plate In Lieu Of NEMA 1, Deduct		-3.06
For Oversized Enclosure, Add		30.60
For Pilot Light, Add		44.88

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 29 Low-Voltage Controllers**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0004	EA		NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	345.10	100.11
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.06	
			<i>For Oversized Enclosure, Add</i>	30.60	
			<i>For Pilot Light, Add</i>	44.88	
26 29 13 13-0005	EA		NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	294.29	77.01
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.06	
			<i>For Oversized Enclosure, Add</i>	30.60	
			<i>For Pilot Light, Add</i>	44.88	
26 29 13 13-0006	EA		NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	375.70	100.11
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-3.06	
			<i>For Oversized Enclosure, Add</i>	30.60	
			<i>For Pilot Light, Add</i>	44.88	
26 29 13 13-0007	EA		NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	276.95	77.01
			<i>For Oversized Enclosure, Add</i>	30.60	
26 29 13 13-0008	EA		NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	362.44	100.11
			<i>For Oversized Enclosure, Add</i>	30.60	
26 29 13 13-0009	EA		NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	533.18	92.41
			<i>For Pilot Light, Add</i>	117.31	
26 29 13 13-0010	EA		NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	617.66	115.51
			<i>For Pilot Light, Add</i>	117.31	
26 29 13 13-0011	EA		NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	563.79	92.41
26 29 13 13-0012	EA		NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	645.20	115.51
<b>26 29 13 13-0013</b>			<b>Non-Reversing Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0014	EA		NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	218.98	77.01
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.76	
			<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0015	EA		NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	346.89	100.11
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.76	
			<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0016	EA		NEMA 1, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	246.19	84.71
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.76	
			<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0017	EA		NEMA 1, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	375.07	107.82
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.76	
			<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0018	EA		NEMA 1, Non-Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	247.53	77.01
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.76	
			<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0019	EA		NEMA 1, Non-Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	376.42	100.11
			Note: NEMA 1 or flush cover plate installation.		
			<i>For Oversize Enclosure, Add</i>	14.76	
			<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0020	EA		NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	493.88	92.41
			<i>For Pilot Light, Add</i>	112.21	
26 29 13 13-0021	EA		NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	610.96	115.51
			<i>For Pilot Light, Add</i>	112.21	
26 29 13 13-0022	EA		NEMA 4, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	522.09	100.11
			<i>For Pilot Light, Add</i>	112.21	
26 29 13 13-0023	EA		NEMA 4, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	636.21	123.21
			<i>For Pilot Light, Add</i>	112.21	
26 29 13 13-0024	EA		NEMA 3R, 7 And 9, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	521.44	92.41
26 29 13 13-0025	EA		NEMA 3R, 7 And 9, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	646.40	115.51
26 29 13 13-0026	EA		Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	159.00	53.90
			<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0027	EA		Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	286.90	77.01
			<i>For Pilot Light, Add</i>	70.87	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0028 EA Open Type, Non-Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	186.20	61.61
<i>For Pilot Light, Add</i>	70.87	
26 29 13 13-0029 EA Open Type, Non-Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	314.11	84.71
<i>For Pilot Light, Add</i>	70.87	
<b>26 29 13 13-0030 Reversing Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	559.73	138.62
<i>For Pilot Light, Add</i>	114.18	
26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	803.72	184.82
<i>For Pilot Light, Add</i>	114.18	
<b>26 29 13 13-0033 Two Speed Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	559.73	138.62
26 29 13 13-0035 EA NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22).....	803.72	184.82
<b>26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0037 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1).....	498.00	92.41
26 29 13 13-0038 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1).....	498.00	92.41
26 29 13 13-0039 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11).....	993.95	107.82
26 29 13 13-0040 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1).....	993.95	107.82
26 29 13 13-0041 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1).....	1,283.65	107.82
26 29 13 13-0042 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1).....	629.79	107.82
26 29 13 13-0043 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1).....	421.20	69.31
26 29 13 13-0044 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1).....	586.86	100.11
26 29 13 13-0045 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1).....	586.86	100.11
26 29 13 13-0046 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11).....	1,183.80	115.51
26 29 13 13-0047 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1).....	1,183.80	115.51
26 29 13 13-0048 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1).....	1,495.94	115.51
26 29 13 13-0049 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1).....	718.64	115.51
26 29 13 13-0050 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO1).....	510.04	77.01
26 29 13 13-0051 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2).....	760.36	107.82
26 29 13 13-0052 EA NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2).....	760.36	107.82
26 29 13 13-0053 EA NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12).....	1,401.18	123.21
26 29 13 13-0054 EA NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2).....	1,401.18	123.21
26 29 13 13-0055 EA NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2).....	1,700.06	123.21
26 29 13 13-0056 EA Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2).....	895.22	123.21
26 29 13 13-0057 EA Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2).....	686.61	84.71
26 29 13 13-0058 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2).....	617.15	115.51
26 29 13 13-0059 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2).....	617.15	115.51
26 29 13 13-0060 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12).....	1,113.11	130.92
26 29 13 13-0061 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2).....	1,113.11	130.92
26 29 13 13-0062 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2).....	1,410.97	130.92
26 29 13 13-0063 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2).....	749.96	130.92
26 29 13 13-0064 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2).....	543.40	92.41
26 29 13 13-0065 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3).....	706.01	123.21

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0066 EA NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3).....	706.01	123.21
26 29 13 13-0067 EA NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13).....	1,302.95	138.62
26 29 13 13-0068 EA NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3).....	1,302.95	138.62
26 29 13 13-0069 EA NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3).....	1,622.23	138.62
26 29 13 13-0070 EA Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3).....	837.80	138.62
26 29 13 13-0071 EA Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3).....	629.20	100.11
<b>26 29 13 13-0072 Reversing Integral HP Manual Motor Starters (26 29 13 13-0001)</b>		
26 29 13 13-0073 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1).....	1,393.01	161.72
26 29 13 13-0074 EA NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1).....	1,393.01	161.72
26 29 13 13-0075 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1).....	1,213.90	115.51
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1).....	1,641.09	177.13
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1).....	1,461.97	130.92
<b>26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters (26 29 13 13-0001)</b>		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1).....	1,393.01	161.72
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1).....	1,213.90	115.51
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1).....	1,641.09	177.13
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1).....	1,461.97	130.92
<b>26 29 13 13-0083 Magnetic Motor Starters (26 29 13 13)</b>		
<b>26 29 13 13-0084 Non-Reversing, Magnetic Contactors (26 29 13 13-0083)</b>		
<b>26 29 13 13-0085 Open Enclosure, Non-Reversing, Magnetic Contactors (26 29 13 13-0084)</b>		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO11).....	600.80	154.02
<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAO12).....	674.45	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO5).....	643.64	154.02
<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO1).....	718.32	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO2).....	791.96	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO3).....	999.64	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBO4).....	1,252.20	277.24
<i>For Factory Installed Accessory, Deduct</i>	-554.47	
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO5).....	745.86	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO1).....	819.50	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO2).....	895.18	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO3).....	1,150.09	269.54
<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCO4).....	1,401.63	315.74
<i>For Factory Installed Accessory, Deduct</i>	-631.48	
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO1).....	1,213.25	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Controllers</b>	<b>26 29</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO2).....	1,361.76	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDO3).....	1,777.94	308.04
<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO1).....	1,798.35	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO2).....	2,069.68	308.04
<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO3).....	2,629.69	385.05
<i>For Factory Installed Accessory, Deduct</i>	-770.10	
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEO4).....	3,714.02	462.06
<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO1).....	3,995.57	385.05
<i>For Factory Installed Accessory, Deduct</i>	-770.10	
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO2).....	4,411.75	462.06
<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFO3).....	5,930.62	539.07
<i>For Factory Installed Accessory, Deduct</i>	-1,078.14	
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO1).....	7,913.65	462.06
<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGO2).....	8,832.72	616.08
<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHO2).....	22,595.48	924.12
<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJO2).....	32,383.01	1,386.18
<i>For Factory Installed Accessory, Deduct</i>	-2,772.36	
<b>26 29 13 13-0112 NEMA 1, Non-Reversing, Magnetic Contactors <small>(26 29 13 13-0084)</small></b>		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG11).....	632.42	154.02
<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SAG12).....	706.08	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG5).....	675.27	154.02
<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG1).....	750.96	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG2).....	824.60	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG3).....	1,034.32	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBG4).....	1,287.90	277.24
<i>For Factory Installed Accessory, Deduct</i>	-554.47	
26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG5).....	779.52	169.42
<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG1).....	855.20	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG2).....	928.85	200.23
<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG3).....	1,184.78	269.54
<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCG4).....	1,435.30	315.74
<i>For Factory Installed Accessory, Deduct</i>	-631.48	
26 29 13 13-0125 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG1).....	1,364.22	184.82
<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG2).....	1,513.75	231.03
<i>For Factory Installed Accessory, Deduct</i>	-462.06	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0127	EA	Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDG3).....	1,928.91	308.04
		<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0128	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG1).....	2,095.20	231.03
		<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0129	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG2).....	2,365.50	308.04
		<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0130	EA	Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEG3).....	2,926.53	385.05
		<i>For Factory Installed Accessory, Deduct</i>	-770.10	
26 29 13 13-0131	EA	Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG1).....	4,610.67	385.05
		<i>For Factory Installed Accessory, Deduct</i>	-770.10	
26 29 13 13-0132	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFG2).....	5,026.85	462.06
		<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0133	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGG2).....	9,953.78	616.08
		<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0134	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHG2).....	27,525.49	924.12
		<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
26 29 13 13-0135	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, NEMA 1 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SJJ2).....	37,327.30	1,386.18
		<i>For Factory Installed Accessory, Deduct</i>	-2,772.36	
<b>26 29 13 13-0136</b>		<b>NEMA 12, Non-Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0084)</small>		
26 29 13 13-0137	EA	Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA1).....	925.39	169.42
		<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0138	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBA2).....	999.03	184.82
		<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0139	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCA2).....	1,103.28	200.23
		<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0140	EA	Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA1).....	1,682.48	184.82
		<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0141	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDA2).....	1,833.04	231.03
		<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0142	EA	Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA1).....	2,472.62	231.03
		<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0143	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEA2).....	2,741.91	308.04
		<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0144	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFA2).....	6,276.44	462.06
		<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0145	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGA2).....	13,151.70	616.08
		<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0146	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHA2).....	31,446.65	924.12
		<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
<b>26 29 13 13-0147</b>		<b>NEMA 4/4X, Non-Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0084)</small>		
		Note: Brushed stainless steel enclosure		
26 29 13 13-0148	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBW12).....	1,333.62	184.82
		<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0149	EA	Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW11).....	1,378.50	184.82
		<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0150	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW12).....	1,452.14	200.23
		<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0151	EA	Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SCW13).....	1,708.07	269.54
		<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13 13-0152	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SDW12).....	2,560.35	231.03
		<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0153	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SEW12).....	3,846.65	308.04
		<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0154	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SFW12).....	7,555.61	462.06
		<i>For Factory Installed Accessory, Deduct</i>	-924.12	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Controllers</b>	<b>26 29</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0155	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SGW12).....	13,151.70	616.08
			<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0156	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 4/4X Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SHW2).....	34,788.40	924.12
			<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
<b>26 29 13 13-0157</b>			<b>NEMA 7/9, Non-Reversing, Magnetic Contactors</b> (26 29 13 13-0084)		
			Note: Bolted cast iron enclosure.		
26 29 13 13-0158	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Non-Reversing, Magnetic Contactors (Square D 8502SBT2).....	2,604.41	246.44
			<i>For Factory Installed Accessory, Deduct</i>	-492.86	
<b>26 29 13 13-0159</b>			<b>Non-Reversing, Magnetic Starters</b> (26 29 13 13-0083)		
<b>26 29 13 13-0160</b>			<b>Open Enclosure, Non-Reversing, Magnetic Starters</b> (26 29 13 13-0159)		
26 29 13 13-0161	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO11).....	701.79	154.02
			<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0162	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAO12).....	732.60	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0163	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO1).....	782.58	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0164	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO2).....	864.38	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0165	EA		Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBO4).....	1,379.71	277.24
			<i>For Factory Installed Accessory, Deduct</i>	-554.47	
26 29 13 13-0166	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO1).....	886.83	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0167	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO3).....	1,032.89	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0168	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCO2).....	1,075.74	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0169	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO6).....	1,306.08	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0170	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDO1).....	1,493.35	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0171	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEO1).....	2,286.96	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0172	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFO1).....	4,746.33	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0173	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGO1).....	10,567.86	616.08
			<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0174	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHO2).....	24,040.93	924.12
			<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
26 29 13 13-0175	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SJO2).....	34,659.81	1,386.18
			<i>For Factory Installed Accessory, Deduct</i>	-2,772.36	
<b>26 29 13 13-0176</b>			<b>NEMA 1, Non-Reversing, Magnetic Starters</b> (26 29 13 13-0159)		
26 29 13 13-0177	EA		Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG11).....	735.45	154.02
			<i>For Factory Installed Accessory, Deduct</i>	-308.04	
26 29 13 13-0178	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SAG12).....	766.26	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0179	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG1).....	816.24	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0180	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBG2).....	898.05	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0181	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG1).....	919.47	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0182	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG3).....	1,002.29	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 29 Low-Voltage Controllers**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0183	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCG2).....	1,110.42	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0184	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG6).....	1,458.07	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0185	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDG1).....	1,645.34	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0186	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEG1).....	2,583.80	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0187	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFG1).....	5,361.43	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0188	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 1 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGG1).....	11,691.98	616.08
			<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
<b>26 29 13 13-0189</b>			<b>NEMA 12, Non-Reversing, Magnetic Starters (26 29 13 13-0159)</b>		
26 29 13 13-0190	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA1).....	990.68	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0191	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBA2).....	1,072.48	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0192	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA1).....	1,093.90	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0193	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA3).....	1,176.72	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0194	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCA2).....	1,284.85	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0195	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA6).....	1,777.35	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0196	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDA1).....	1,963.61	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0197	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEA1).....	2,960.21	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0198	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFA1).....	6,610.00	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13 13-0199	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGA1).....	14,886.84	616.08
			<i>For Factory Installed Accessory, Deduct</i>	-1,232.16	
26 29 13 13-0200	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amperes, NEMA 12 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SHA2).....	35,232.14	924.12
			<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
<b>26 29 13 13-0201</b>			<b>NEMA 3R, Non-Reversing, Magnetic Starters (26 29 13 13-0159)</b>		
26 29 13 13-0202	EA		Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH1).....	990.68	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0203	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBH2).....	1,072.48	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0204	EA		Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH1).....	1,093.90	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0205	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH3).....	1,176.72	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0206	EA		Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCH2).....	1,284.85	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0207	EA		Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH6).....	1,777.35	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0208	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDH1).....	1,963.61	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0209	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEH1).....	2,960.21	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13 13-0210	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFH1).....	6,610.00	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 29 13	13	0211	<b>NEMA 3R/4/4X/7/9, Non-Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small> Note: Bolted cast aluminum enclosure.		
	26 29 13	13	0212	EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT4).....	2,716.82	261.83
				<i>For Factory Installed Accessory, Deduct</i> .....	-523.67	
	26 29 13	13	0213	EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR1).....	3,310.51	261.83
				<i>For Factory Installed Accessory, Deduct</i> .....	-523.67	
	26 29 13	13	0214	EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCR3).....	3,414.75	277.24
				<i>For Factory Installed Accessory, Deduct</i> .....	-554.47	
	26 29 13	13	0215	EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDR1).....	5,233.95	308.04
				<i>For Factory Installed Accessory, Deduct</i> .....	-616.08	
	26 29 13	13	0216	EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SET43).....	6,318.27	385.05
				<i>For Factory Installed Accessory, Deduct</i> .....	-770.10	
	26 29 13	13	0217	EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFT41).....	10,032.33	539.07
				<i>For Factory Installed Accessory, Deduct</i> .....	-1,078.14	
	26 29 13	13	0218	<b>NEMA 4/4X, Non-Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small> Note: Brushed stainless steel enclosure.		
	26 29 13	13	0219	EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW11).....	1,324.24	169.42
				<i>For Factory Installed Accessory, Deduct</i> .....	-338.85	
	26 29 13	13	0220	EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBW12).....	1,407.06	184.82
				<i>For Factory Installed Accessory, Deduct</i> .....	-369.65	
	26 29 13	13	0221	EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW11).....	1,442.77	184.82
				<i>For Factory Installed Accessory, Deduct</i> .....	-369.65	
	26 29 13	13	0222	EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW13).....	1,525.59	200.23
				<i>For Factory Installed Accessory, Deduct</i> .....	-400.45	
	26 29 13	13	0223	EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCW12).....	1,633.72	200.23
				<i>For Factory Installed Accessory, Deduct</i> .....	-400.45	
	26 29 13	13	0224	EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW16).....	2,502.62	184.82
				<i>For Factory Installed Accessory, Deduct</i> .....	-369.65	
	26 29 13	13	0225	EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW11).....	4,063.92	308.04
				<i>For Factory Installed Accessory, Deduct</i> .....	-616.08	
	26 29 13	13	0226	EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW11).....	7,888.15	462.06
				<i>For Factory Installed Accessory, Deduct</i> .....	-924.12	
	26 29 13	13	0227	EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, NEMA 4/4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SGW11).....	17,344.20	616.08
				<i>For Factory Installed Accessory, Deduct</i> .....	-1,232.16	
	26 29 13	13	0228	<b>NEMA 4X, Non-Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small> Note: Glass polyester enclosure.		
	26 29 13	13	0229	EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDW21).....	2,691.94	231.03
				<i>For Factory Installed Accessory, Deduct</i> .....	-462.06	
	26 29 13	13	0230	EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SEW21).....	4,926.90	308.04
				<i>For Factory Installed Accessory, Deduct</i> .....	-616.08	
	26 29 13	13	0231	EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 4X Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SFW21).....	9,630.43	462.06
				<i>For Factory Installed Accessory, Deduct</i> .....	-924.12	
	26 29 13	13	0232	<b>NEMA 7/9, Non-Reversing, Magnetic Starters</b> <small>(26 29 13 13-0159)</small> Note: Bolted cast iron enclosure.		
	26 29 13	13	0233	EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT1).....	2,625.83	246.44
				<i>For Factory Installed Accessory, Deduct</i> .....	-492.86	
	26 29 13	13	0234	EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SBT2).....	2,716.82	261.83
				<i>For Factory Installed Accessory, Deduct</i> .....	-523.67	
	26 29 13	13	0235	EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT1).....	2,753.55	261.83
				<i>For Factory Installed Accessory, Deduct</i> .....	-523.67	
	26 29 13	13	0236	EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT3).....	2,840.45	277.24
				<i>For Factory Installed Accessory, Deduct</i> .....	-554.47	
	26 29 13	13	0237	EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SCT2).....	2,964.90	277.24
				<i>For Factory Installed Accessory, Deduct</i> .....	-554.47	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 29 Low-Voltage Controllers**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13	13-0238	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 7/9 Enclosure, Full Voltage, Non-Reversing Magnetic Starter (Square D 8536SDT1).....	4,311.80	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
<b>26 29 13</b>	<b>13-0239</b>		<b>Reversing, Magnetic Starters</b> (26 29 13 13-0083)		
<b>26 29 13</b>	<b>13-0240</b>		<b>Open Enclosure, Reversing, Magnetic Starters</b> (26 29 13 13-0239)		
26 29 13	13-0241	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,280.77	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13	13-0242	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,345.04	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13	13-0243	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,486.01	215.62
			<i>For Factory Installed Accessory, Deduct</i>	-431.26	
26 29 13	13-0244	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,545.38	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13	13-0245	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,581.08	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13	13-0246	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,691.44	246.44
			<i>For Factory Installed Accessory, Deduct</i>	-492.86	
26 29 13	13-0247	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,768.26	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13	13-0248	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....	1,804.98	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13	13-0249	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	3,012.23	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13	13-0250	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	4,904.44	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	
26 29 13	13-0251	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	11,107.47	693.09
			<i>For Factory Installed Accessory, Deduct</i>	-1,386.18	
26 29 13	13-0252	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	20,524.74	924.12
			<i>For Factory Installed Accessory, Deduct</i>	-1,848.24	
26 29 13	13-0253	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amperes, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	65,867.85	1,694.22
			<i>For Factory Installed Accessory, Deduct</i>	-3,388.44	
<b>26 29 13</b>	<b>13-0254</b>		<b>NEMA 1, Reversing, Magnetic Starters</b> (26 29 13 13-0239)		
26 29 13	13-0255	EA	Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,311.18	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13	13-0256	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,372.58	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13	13-0257	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,409.30	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13	13-0258	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,547.22	215.62
			<i>For Factory Installed Accessory, Deduct</i>	-431.26	
26 29 13	13-0259	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,608.62	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13	13-0260	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,645.34	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13	13-0261	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,783.25	246.44
			<i>For Factory Installed Accessory, Deduct</i>	-492.86	
26 29 13	13-0262	EA	Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,860.06	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13	13-0263	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,896.79	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13	13-0264	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	3,250.93	308.04
			<i>For Factory Installed Accessory, Deduct</i>	-616.08	
26 29 13	13-0265	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	5,317.57	462.06
			<i>For Factory Installed Accessory, Deduct</i>	-924.12	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Controllers</b>	<b>26 29</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0266 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amperes, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	11,866.40	693.09
<i>For Factory Installed Accessory, Deduct</i>	<i>-1,386.18</i>	
<b>26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters</b> <small>(26 29 13 13-0239)</small>		
26 29 13 13-0268 EA Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,869.76	231.03
<i>For Factory Installed Accessory, Deduct</i>	<i>-462.06</i>	
26 29 13 13-0269 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4) .....	1,906.48	231.03
<i>For Factory Installed Accessory, Deduct</i>	<i>-462.06</i>	
26 29 13 13-0270 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4) .....	2,157.92	269.54
<i>For Factory Installed Accessory, Deduct</i>	<i>-539.07</i>	
26 29 13 13-0271 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amperes, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,687.52	308.04
<i>For Factory Installed Accessory, Deduct</i>	<i>-616.08</i>	
<b>26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters</b> <small>(26 29 13 13-0239)</small>		
Note: Brushed stainless steel enclosure.		
26 29 13 13-0273 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14) .....	2,312.47	231.03
<i>For Factory Installed Accessory, Deduct</i>	<i>-462.06</i>	
26 29 13 13-0274 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amperes, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11) .....	2,713.56	246.44
<i>For Factory Installed Accessory, Deduct</i>	<i>-492.86</i>	
<b>26 29 13 13-0275 Magnetic Contactor/Starters Accessories</b> <small>(26 29 13 13-0083)</small>		
26 29 13 13-0276 EA NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2).....	173.45	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0277 EA NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3) .....	288.61	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0278 EA NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	173.45	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0279 EA NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	288.61	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0280 EA NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R) .....	288.61	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0281 EA Internal Non-Convertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	145.96	15.41
<i>For Factory Installed Accessory, Deduct</i>	<i>-30.80</i>	
26 29 13 13-0282 EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6) .....	130.84	15.41
<i>For Factory Installed Accessory, Deduct</i>	<i>-30.80</i>	
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8).....	173.45	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0284 EA External Field Non-Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	145.96	15.41
<i>For Factory Installed Accessory, Deduct</i>	<i>-30.80</i>	
26 29 13 13-0285 EA External Field Non-Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15) .....	194.38	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0286 EA 30 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6) .....	214.59	15.41
<i>For Factory Installed Accessory, Deduct</i>	<i>-30.80</i>	
26 29 13 13-0287 EA 45 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11) .....	364.65	15.41
<i>For Factory Installed Accessory, Deduct</i>	<i>-30.80</i>	
26 29 13 13-0288 EA 60 Amperes, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21) .....	386.75	15.41
<i>For Factory Installed Accessory, Deduct</i>	<i>-30.80</i>	
26 29 13 13-0289 EA 30 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8) .....	463.09	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0290 EA 45 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13) .....	801.60	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0291 EA 60 Amperes, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23) .....	801.60	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0292 EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	53.47	11.56
<i>For Factory Installed Accessory, Deduct</i>	<i>-23.10</i>	
26 29 13 13-0293 EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	105.25	15.41
<i>For Factory Installed Accessory, Deduct</i>	<i>-30.80</i>	
26 29 13 13-0294 EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	138.55	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0295 EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	110.63	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	
26 29 13 13-0296 EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	61.84	11.56
<i>For Factory Installed Accessory, Deduct</i>	<i>-23.10</i>	
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1) .....	39.74	11.56
<i>For Factory Installed Accessory, Deduct</i>	<i>-23.10</i>	
26 29 13 13-0298 EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39) .....	187.84	15.41
<i>For Factory Installed Accessory, Deduct</i>	<i>-30.80</i>	
26 29 13 13-0299 EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40) .....	321.18	19.25
<i>For Factory Installed Accessory, Deduct</i>	<i>-38.51</i>	

**26 29 13 13-0300 Definite Purpose Starters** (26 29 13 13)

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0301			<b>Open Enclosure, Definite Purpose Starter</b> <small>(26 29 13 13-0300)</small>		
26 29 13 13-0302	EA		Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13) .....	672.61	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0303	EA		Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22) .....	671.59	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0304	EA		Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23) .....	726.87	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0305	EA		Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32) .....	709.33	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0306	EA		Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33) .....	770.74	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0307	EA		Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42) .....	741.98	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0308	EA		Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43) .....	869.07	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0309	EA		Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52) .....	953.73	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0310	EA		Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53) .....	1,189.88	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13 13-0311			<b>NEMA 1, Definite Purpose Starter</b> <small>(26 29 13 13-0300)</small>		
26 29 13 13-0312	EA		NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12) .....	677.51	169.42
			<i>For Factory Installed Accessory, Deduct</i>	-338.85	
26 29 13 13-0313	EA		NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13) .....	732.80	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0314	EA		NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22) .....	730.76	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0315	EA		NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23) .....	789.10	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0316	EA		NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32) .....	769.52	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0317	EA		NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33) .....	831.94	200.23
			<i>For Factory Installed Accessory, Deduct</i>	-400.45	
26 29 13 13-0318	EA		NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42) .....	804.20	184.82
			<i>For Factory Installed Accessory, Deduct</i>	-369.65	
26 29 13 13-0319	EA		NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43) .....	930.27	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0320	EA		NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52) .....	1,011.88	231.03
			<i>For Factory Installed Accessory, Deduct</i>	-462.06	
26 29 13 13-0321	EA		NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amperes, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53) .....	1,249.04	269.54
			<i>For Factory Installed Accessory, Deduct</i>	-539.07	
26 29 13 13-0322			<b>Definite Purpose Starter Accessory</b> <small>(26 29 13 13-0300)</small>		
26 29 13 13-0323	EA		Start-Stop Push Button Kit, Definite Purpose Starter Accessory .....	194.38	19.25
			Note: Or Hand-Off-Auto Selector Switch Kit		
			<i>For Factory Installed Accessory, Deduct</i>	-38.51	
26 29 13 13-0324			<b>Panel Mounted Miniature Contactor</b> <small>(26 29 13 13)</small>		
26 29 13 13-0325			<b>Non-Reversing, Panel Mounted Miniature Contactor</b> <small>(26 29 13 13-0324)</small>		
26 29 13 13-0326	EA		3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amperes, 15 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....	212.16	77.01
26 29 13 13-0327	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....	245.93	84.71
26 29 13 13-0328	EA		3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....	245.93	84.71
26 29 13 13-0329	EA		3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, AC Coil, Non-Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....	272.55	92.41



**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0358	EA	3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K) .....	412.20	84.71
26 29 13 13-0359	EA	3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amperes, 20 Amperes, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K) .....	464.32	92.41
<b>26 29 13 13-0360</b>		<b>Panel Mounted Miniature Contactor Accessories</b> <small>(26 29 13 13-0324)</small>		
26 29 13 13-0361	EA	2 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02).....	93.03	38.51
26 29 13 13-0362	EA	4 Auxiliary Contacts, 10 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40).....	100.90	38.51
26 29 13 13-0363	EA	Electronic Time Delay Contact, 2 Amperes, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	115.16	38.51
26 29 13 13-0364	EA	Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LK2K0301).....	143.53	38.51
<b>26 29 13 13-0365</b>		<b>Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0366</b>		<b>NEMA 1 Enclosure</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0367	EA	Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	7,664.37	738.35
		<i>For NEMA 4, Add</i>	769.54	
26 29 13 13-0368	EA	Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	13,217.02	984.46
		<i>For NEMA 4, Add</i>	1,405.62	
26 29 13 13-0369	EA	Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	22,854.37	1,169.04
		<i>For NEMA 4, Add</i>	2,565.47	
26 29 13 13-0370	EA	Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	55,017.65	1,430.54
		<i>For NEMA 4, Add</i>	6,521.14	
26 29 13 13-0371	EA	Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing.....	87,554.32	1,830.47
		<i>For NEMA 4, Add</i>	10,486.49	
<b>26 29 13 13-0372</b>		<b>NEMA 12 Enclosure</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0373	EA	Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	7,613.09	754.04
26 29 13 13-0374	EA	Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	13,123.35	986.00
26 29 13 13-0375	EA	Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	22,683.42	1,165.35
26 29 13 13-0376	EA	Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	54,583.11	1,424.23
26 29 13 13-0377	EA	Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	86,855.55	1,831.24
<b>26 29 13 13-0378</b>		<b>Factory Modifications Pilot Devices</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0379	EA	Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	181.31	
26 29 13 13-0380	EA	H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	199.96	
26 29 13 13-0381	EA	Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	340.37	
26 29 13 13-0382	EA	Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	184.93	
26 29 13 13-0383	EA	Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	265.91	
26 29 13 13-0384	EA	Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	132.96	
26 29 13 13-0385	EA	Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	433.96	
<b>26 29 13 13-0386</b>		<b>Factory Modifications Meters</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0387	EA	Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter .....	1,744.40	
26 29 13 13-0388	EA	Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter .....	1,684.85	
26 29 13 13-0389	EA	Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter .....	595.65	
26 29 13 13-0390	EA	Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter .....	493.55	
<b>26 29 13 13-0391</b>		<b>Factory Modifications Main Circuit Breakers</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0392	EA	Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker .....	2,305.48	
26 29 13 13-0393	EA	Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker .....	4,216.43	
26 29 13 13-0394	EA	Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker .....	8,968.76	
<b>26 29 13 13-0395</b>		<b>Factory Modifications Addition</b> <small>(26 29 13 13-0365)</small>		
		Note: For reversing service auto transformer type.		
26 29 13 13-0396	EA	Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase .....	387.19	
26 29 13 13-0397	EA	Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase .....	387.19	
26 29 13 13-0398	EA	Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase .....	387.19	
26 29 13 13-0399	EA	Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase .....	387.19	
<b>26 29 13 13-0400</b>		<b>Combination Starters Non-Reversing</b> <small>(26 29 13 13)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0401				<b>240-600 Volt, 3-Pole</b> <small>(26 29 13 13-0400)</small>		
26 29 13 13-0402				<b>NEMA 1 With Disconnect Switch</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0403	EA			Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 1,943.36		353.79
				<i>For Electronic Overloads, Add</i> ..... 233.93		
26 29 13 13-0404	EA			Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 2,413.52		553.76
				<i>For Electronic Overloads, Add</i> ..... 246.79		
26 29 13 13-0405	EA			Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 3,338.41		646.05
				<i>For Electronic Overloads, Add</i> ..... 390.75		
26 29 13 13-0406	EA			Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 5,025.40		799.88
				<i>For Electronic Overloads, Add</i> ..... 650.39		
26 29 13 13-0407	EA			Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 9,166.34		1,276.72
				<i>For Electronic Overloads, Add</i> ..... 1,254.50		
26 29 13 13-0408	EA			Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 18,029.00		1,599.74
				<i>For Electronic Overloads, Add</i> ..... 2,816.63		
26 29 13 13-0409				<b>NEMA 1 With Circuit Breaker</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0410	EA			Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 2,430.44		353.79
				<i>For Electronic Overloads, Add</i> ..... 326.48		
26 29 13 13-0411	EA			Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 2,900.60		553.76
				<i>For Electronic Overloads, Add</i> ..... 339.33		
26 29 13 13-0412	EA			Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 3,811.96		646.05
				<i>For Electronic Overloads, Add</i> ..... 480.72		
26 29 13 13-0413	EA			Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 5,282.47		799.88
				<i>For Electronic Overloads, Add</i> ..... 699.23		
26 29 13 13-0414	EA			Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 10,641.11		1,276.72
				<i>For Electronic Overloads, Add</i> ..... 1,534.71		
26 29 13 13-0415	EA			Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 21,939.17		1,599.74
				<i>For Electronic Overloads, Add</i> ..... 3,559.57		
26 29 13 13-0416				<b>Factory Modifications For NEMA 1 Enclosure</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0417	EA			Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt ..... 221.81		
26 29 13 13-0418	EA			H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt ..... 520.99		
26 29 13 13-0419	EA			Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt ..... 359.57		
26 29 13 13-0420				<b>NEMA 4 With Disconnect Switch</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0421	EA			Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 3,479.63		461.46
				<i>For Electronic Overloads, Add</i> ..... 480.72		
26 29 13 13-0422	EA			Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 3,879.61		646.05
				<i>For Electronic Overloads, Add</i> ..... 493.57		
26 29 13 13-0423	EA			Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 5,483.28		707.57
				<i>For Electronic Overloads, Add</i> ..... 771.21		
26 29 13 13-0424	EA			Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 8,622.97		861.40
				<i>For Electronic Overloads, Add</i> ..... 1,313.63		
26 29 13 13-0425	EA			Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 13,631.24		1,276.72
				<i>For Electronic Overloads, Add</i> ..... 2,102.83		
26 29 13 13-0426	EA			Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 29,421.27		1,599.74
				<i>For Electronic Overloads, Add</i> ..... 4,981.17		
26 29 13 13-0427				<b>NEMA 4 With Circuit Breaker</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0428	EA			Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 3,966.71		461.46
				<i>For Electronic Overloads, Add</i> ..... 573.27		
26 29 13 13-0429	EA			Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 4,366.69		646.05
				<i>For Electronic Overloads, Add</i> ..... 586.12		
26 29 13 13-0430	EA			Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 5,956.83		707.57
				<i>For Electronic Overloads, Add</i> ..... 861.19		
26 29 13 13-0431	EA			Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 8,880.04		861.40
				<i>For Electronic Overloads, Add</i> ..... 1,362.47		
26 29 13 13-0432	EA			Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 15,106.01		1,276.72
				<i>For Electronic Overloads, Add</i> ..... 2,383.04		
26 29 13 13-0433	EA			Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... 27,892.38		1,599.74
				<i>For Electronic Overloads, Add</i> ..... 4,690.68		
26 29 13 13-0434				<b>Factory Modifications For NEMA 4 Enclosure</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0435	EA			Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt ..... 221.84		
26 29 13 13-0436	EA			H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt ..... 520.99		
26 29 13 13-0437	EA			Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt ..... 359.57		
26 29 13 13-0438				<b>NEMA 12 With Disconnect Switch</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0439	EA			Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 2,004.92		356.10
				<i>For Electronic Overloads, Add</i> ..... 245.63		
26 29 13 13-0440	EA			Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 2,478.46		557.29
				<i>For Electronic Overloads, Add</i> ..... 259.13		
26 29 13 13-0441	EA			Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... 3,441.24		640.98
				<i>For Electronic Overloads, Add</i> ..... 410.28		

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 29 Low-Voltage Controllers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	5,196.55 682.91	801.11
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	9,496.46 1,317.23	1,281.95
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	18,770.20 2,957.46	1,602.20
<b>26 29 13 13-0445 NEMA 12 With Circuit Breaker</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	2,586.53 356.14	356.10
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	3,062.83 370.16	557.29
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	4,041.79 524.39	640.98
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	5,616.77 762.75	801.11
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	11,374.85 1,674.12	1,281.95
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	23,640.98 3,882.91	1,602.20
<b>26 29 13 13-0452 Factory Modifications For NEMA 12 Enclosure</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	219.99	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	516.65	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	356.57	
<b>26 29 13 13-0456 NEMA 7 Or 9 With Circuit Breaker</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,488.24	738.35
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,075.71	984.46
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	6,694.95	1,353.63
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,895.81	1,845.86
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	14,849.32	2,584.20
<b>26 29 13 13-0462 Factory Modifications For NEMA 7 Or 9 Enclosure</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,319.15	
26 29 13 13-0464 EA H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,319.15	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,319.15	
<b>26 29 13 13-0466 Combination Starters Reversing</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0467 240-600 Volt, 3 Pole</b> <small>(26 29 13 13-0466)</small>		
<b>26 29 13 13-0468 NEMA 1 With Disconnect Switch</b> <small>(26 29 13 13-0467)</small>		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,416.75	461.46
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,847.33	646.05
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,041.05	707.57
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	6,045.33	861.40
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	11,645.47	1,276.72
<b>26 29 13 13-0474 NEMA 1 With Circuit Breaker</b> <small>(26 29 13 13-0467)</small>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,673.75	461.46
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,121.67	646.05
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,362.20	707.57
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	6,486.99	861.40
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	12,514.13	1,276.72
<b>26 29 13 13-0480 NEMA 12 With Disconnect Switch</b> <small>(26 29 13 13-0467)</small>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,566.20	474.85
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,006.79	640.98
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,307.59	712.19
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	6,486.99	854.63
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	12,570.50	1,281.95
<b>26 29 13 13-0486 NEMA 12 With Circuit Breaker</b> <small>(26 29 13 13-0467)</small>		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,849.37	474.85
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,309.07	640.98
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,661.45	712.19
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,999.82	854.63
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,527.64	1,281.95
<b>26 29 13 13-0492 NEMA 7 Or 9 With Circuit Breaker</b> <small>(26 29 13 13-0467)</small>		



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Controllers	26 29	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,469.57	984.46
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	5,928.15	1,230.58
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	8,473.31	1,599.74
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	13,346.57	2,091.97
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	24,069.51	2,830.32
<b>26 29 13 13-0498 Solid State Motor Controllers (26 29 13 13)</b>		
<b>26 29 13 13-0499 Adjustable Voltage Drives, DC Motors (26 29 13 13-0498)</b>		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking .....	1,886.78	276.88
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	2,246.39	276.88
<b>26 29 13 13-0502 Removal And Reinstallation Of Motor Starters (26 29 13 13)</b>		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	1,098.73	
<b>26 29 13 13-0504 Auxiliary Devices (26 29 13 13)</b>		
26 29 13 13-0505 EA Normally Open, Auxiliary Contact .....	587.64	153.82
26 29 13 13-0506 EA Normally Closed, Auxiliary Contact.....	587.64	153.82
26 29 13 13-0507 EA Pilot Light Kit.....	615.89	153.82
<b>26 29 23 Variable-Frequency Motor Controllers (26 29)</b>		
<b>26 29 23 00-0001 208/230 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)</b>		
Note: 1 or 3 phase. Wall mounted. ABB ACH580 Series. Includes full voltage bypass with main input circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0002 EA 3/4 HP, 208/230 Volt Variable Frequency Drive .....	2,531.96	567.96
For 6-Pulse Drive Package, Deduct	-767.75	
26 29 23 00-0003 EA 1 HP, 208/230 Volt Variable Frequency Drive .....	2,842.77	620.75
For 6-Pulse Drive Package, Deduct	-883.86	
26 29 23 00-0004 EA 1-1/2 HP, 208/230 Volt Variable Frequency Drive .....	3,290.04	682.55
For 6-Pulse Drive Package, Deduct	-1,058.72	
26 29 23 00-0005 EA 2 HP, 208/230 Volt Variable Frequency Drive .....	3,444.51	656.08
For 6-Pulse Drive Package, Deduct	-1,172.79	
26 29 23 00-0006 EA 3 HP, 208/230 Volt Variable Frequency Drive .....	3,697.10	715.31
For 6-Pulse Drive Package, Deduct	-1,246.56	
26 29 23 00-0007 EA 5 HP, 208/230 Volt Variable Frequency Drive .....	3,976.53	715.31
For 6-Pulse Drive Package, Deduct	-1,400.25	
26 29 23 00-0008 EA 7.5 HP, 208/230 Volt Variable Frequency Drive .....	4,750.82	854.08
For 6-Pulse Drive Package, Deduct	-1,673.46	
26 29 23 00-0009 EA 10 HP, 208/230 Volt Variable Frequency Drive .....	5,154.43	854.08
For 6-Pulse Drive Package, Deduct	-1,895.45	
26 29 23 00-0010 EA 15 HP, 208/230 Volt Variable Frequency Drive .....	6,856.54	1,285.98
For 6-Pulse Drive Package, Deduct	-2,356.51	
26 29 23 00-0011 EA 20 HP, 208/230 Volt Variable Frequency Drive .....	7,974.24	1,285.98
For 6-Pulse Drive Package, Deduct	-2,971.24	
26 29 23 00-0012 EA 25 HP, 208/230 Volt Variable Frequency Drive .....	9,781.22	1,708.31
For 6-Pulse Drive Package, Deduct	-3,500.61	
26 29 23 00-0013 EA 30 HP, 208/230 Volt Variable Frequency Drive .....	11,178.36	1,708.31
For 6-Pulse Drive Package, Deduct	-4,269.03	
26 29 23 00-0014 EA 40 HP, 208/230 Volt Variable Frequency Drive .....	12,389.21	1,708.31
For 6-Pulse Drive Package, Deduct	-4,935.00	
26 29 23 00-0015 EA 50 HP, 208/230 Volt Variable Frequency Drive .....	16,303.24	2,159.52
For 6-Pulse Drive Package, Deduct	-6,591.39	
26 29 23 00-0016 EA 60 HP, 208/230 Volt Variable Frequency Drive .....	19,639.57	2,554.66
For 6-Pulse Drive Package, Deduct	-7,991.63	
26 29 23 00-0017 EA 75 HP, 208/230 Volt Variable Frequency Drive .....	22,123.37	2,554.66
For 6-Pulse Drive Package, Deduct	-9,357.72	
<b>26 29 23 00-0018 460/480 Volt, Ultra Low Harmonic (ULH) Variable Frequency Drives (26 29 23)</b>		
Note: 3 Phase. ABB ACH580 Series. Includes full voltage bypass with main circuit breaker. NEMA 1 enclosure.		
26 29 23 00-0019 EA 3 HP, 480 Volt Variable Frequency Drive .....	5,893.68	1,021.90
Note: Wall mounted.		
For 6-Pulse Drive Package, Deduct	-2,117.44	
26 29 23 00-0020 EA 5 HP, 480 Volt Variable Frequency Drive .....	6,079.97	1,021.90
Note: Wall mounted.		
For 6-Pulse Drive Package, Deduct	-2,219.90	
26 29 23 00-0021 EA 7.5 HP, 480 Volt Variable Frequency Drive .....	6,688.58	1,217.60
Note: Wall mounted.		
For 6-Pulse Drive Package, Deduct	-2,339.43	
26 29 23 00-0022 EA 10 HP, 480 Volt Variable Frequency Drive .....	6,719.63	1,217.60
Note: Wall mounted.		
For 6-Pulse Drive Package, Deduct	-2,356.51	
26 29 23 00-0023 EA 15 HP, 480 Volt Variable Frequency Drive .....	9,094.13	1,845.93
Note: Wall mounted.		
For 6-Pulse Drive Package, Deduct	-2,971.24	
26 29 23 00-0024 EA 20 HP, 480 Volt Variable Frequency Drive .....	9,528.80	1,845.93
Note: Wall mounted.		
For 6-Pulse Drive Package, Deduct	-3,210.31	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 29 Low-Voltage Controllers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 23 00-0025 EA 25 HP, 480 Volt Variable Frequency Drive ..... Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	11,545.49 -3,671.37	2,435.21
26 29 23 00-0026 EA 30 HP, 480 Volt Variable Frequency Drive ..... Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	13,097.87 -4,525.17	2,435.21
26 29 23 00-0027 EA 40 HP, 480 Volt Variable Frequency Drive ..... Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	14,712.34 -5,413.13	2,435.21
26 29 23 00-0028 EA 50 HP, 480 Volt Variable Frequency Drive ..... Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	19,226.40 -7,171.97	3,093.30
26 29 23 00-0029 EA 60 HP, 480 Volt Variable Frequency Drive ..... Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	25,468.27 -9,972.46	3,668.27
26 29 23 00-0030 EA 75 HP, 480 Volt Variable Frequency Drive ..... Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	26,958.55 -10,792.11	3,668.27
26 29 23 00-0031 EA 100 HP, 480 Volt Variable Frequency Drive ..... Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	31,150.18 -12,636.33	4,087.58
26 29 23 00-0032 EA 125 HP, 480 Volt Variable Frequency Drive ..... Note: Wall mounted. <i>For 6-Pulse Drive Package, Deduct</i>	32,764.65 -13,524.29	4,087.58
26 29 23 00-0033 EA 150 HP, 480 Volt Variable Frequency Drive ..... Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	36,117.78 -15,368.51	4,087.58
26 29 23 00-0034 EA 200 HP, 480 Volt Variable Frequency Drive ..... Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	41,783.28 -17,554.26	4,933.23
26 29 23 00-0035 EA 250 HP, 480 Volt Variable Frequency Drive ..... Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	51,890.58 -22,871.08	5,153.40
26 29 23 00-0036 EA 300 HP, 480 Volt Variable Frequency Drive ..... Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	60,807.24 -26,939.30	5,913.34
26 29 23 00-0037 EA 350 HP, 480 Volt Variable Frequency Drive ..... Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	69,803.69 -31,337.42	6,413.21
26 29 23 00-0038 EA 400 HP, 480 Volt Variable Frequency Drive ..... Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	80,704.94 -36,770.36	6,924.95
26 29 23 00-0039 EA 450 HP, 480 Volt Variable Frequency Drive ..... Note: Floor mounted. <i>For 6-Pulse Drive Package, Deduct</i>	86,997.99 -39,588.60	7,509.35

**26 29 33 Controllers for Fire Pump Drivers** (26 29)

**26 29 33 13 Full-Service Controllers for Fire Pump Electric-Motor Drivers** (26 29 33)

**26 29 33 13-0001 Electric Controllers For Fire Pumps** (26 29 33 13)

**26 29 33 13-0002 Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller** (26 29 33 13-0001)

26 29 33 13-0003 EA 30 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	33,981.21	307.06
26 29 33 13-0004 EA 40 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	38,473.05	341.18
26 29 33 13-0005 EA 50 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	40,334.88	375.30
26 29 33 13-0006 EA 75 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	45,994.11	409.42
26 29 33 13-0007 EA 150 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	48,590.62	477.65
26 29 33 13-0008 EA 175 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	51,770.88	614.12
26 29 33 13-0009 EA 200 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	56,111.78	682.36
26 29 33 13-0010 EA 250 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	64,174.98	777.88
26 29 33 13-0011 EA 300 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	77,358.38	839.30
26 29 33 13-0012 EA 350 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	90,919.33	955.30
26 29 33 13-0013 EA 400 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	108,499.71	1,023.54
26 29 33 13-0014 EA 500 HP Wye-Delta (Star-Delta), Closed Transition Electric Fire Pump Controller With Automatic Transfer Switch .....	122,501.87	1,091.77

**26 29 33 19 Controllers for Fire Pump Diesel Engine Drivers** (26 29 33)

See CSI section 26 29 33 13-0000 for controllers for fire pump diesel engine drivers.

**26 30 Facility Electrical Power Generating and Storing Equipment**

(26)

**26 31 Photovoltaic Collectors** (26 30)

**26 31 00 00-0001 Rigid Photovoltaic Modules** (26 31)

**26 31 00 00-0002 Sanyo Rigid Photovoltaic Modules** (26 31 00 00-0001)

26 31 00 00-0003 EA 205 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.3% Module Efficiency (Sanyo HIP-205NHKA6).....	2,238.48	146.13
<i>For &gt;25 To 50, Deduct</i>	-160.58	
<i>For &gt;50 To 100, Deduct</i>	-216.54	
<i>For &gt;100, Deduct</i>	-321.16	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0004 EA 210 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 16.7% Module Efficiency (Sanyo HIP-210NHKA6).....	2,343.98	146.13
<i>For &gt;25 To 50, Deduct</i>	-168.49	
<i>For &gt;50 To 100, Deduct</i>	-227.09	
<i>For &gt;100, Deduct</i>	-336.98	
26 31 00 00-0005 EA 215 Watt Hybrid Monocrystalline With Thin Amorphous Layers Photovoltaic Module, 62.2" x 31.4", 17.1% Module Efficiency (Sanyo HIP-215HNKA6).....	2,197.10	146.13
<i>For &gt;25 To 50, Deduct</i>	-157.48	
<i>For &gt;50 To 100, Deduct</i>	-212.40	
<i>For &gt;100, Deduct</i>	-314.95	
<b>26 31 00 00-0006 Sharp Rigid Photovoltaic Modules (26 31 00 00-0001)</b>		
26 31 00 00-0007 EA 224 Watt Polycrystalline Photovoltaic Module, 64.6" x 39.1", 13.74% Module Efficiency (Sharp ND-224UC1).....	1,763.44	146.13
<i>For &gt;25 To 50, Deduct</i>	-124.95	
<i>For &gt;50 To 100, Deduct</i>	-169.04	
<i>For &gt;100, Deduct</i>	-249.90	
26 31 00 00-0008 EA 230 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.1% Module Efficiency (Sharp NU-U230F3).....	1,998.92	146.13
<i>For &gt;25 To 50, Deduct</i>	-142.61	
<i>For &gt;50 To 100, Deduct</i>	-192.59	
<i>For &gt;100, Deduct</i>	-285.23	
26 31 00 00-0009 EA 235 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.4% Module Efficiency (Sharp NU-U235F1).....	2,036.22	146.13
<i>For &gt;25 To 50, Deduct</i>	-145.41	
<i>For &gt;50 To 100, Deduct</i>	-196.32	
<i>For &gt;100, Deduct</i>	-290.82	
26 31 00 00-0010 EA 240 Watt Monocrystalline Photovoltaic Module, 64.6" x 39.1", 14.7% Module Efficiency (Sharp NU-U240F1).....	1,919.65	146.13
<i>For &gt;25 To 50, Deduct</i>	-136.67	
<i>For &gt;50 To 100, Deduct</i>	-184.66	
<i>For &gt;100, Deduct</i>	-273.33	
<b>26 31 00 00-0011 BP Solar Rigid Photovoltaic Modules (26 31 00 00-0001)</b>		
Note: Approved for applications in NEC Class 1, Division 2, Groups C and D hazardous locations.		
26 31 00 00-0012 EA 50 Watt Polycrystalline Photovoltaic Module, 33" x 21.1" (BP SX350J).....	896.00	146.13
<i>For &gt;25 To 50, Deduct</i>	-59.89	
<i>For &gt;50 To 100, Deduct</i>	-82.29	
<i>For &gt;100, Deduct</i>	-119.79	
26 31 00 00-0013 EA 75 Watt Polycrystalline Photovoltaic Module, 47.6" x 21.14" (BP SX375J).....	1,094.18	146.13
<i>For &gt;25 To 50, Deduct</i>	-74.76	
<i>For &gt;50 To 100, Deduct</i>	-102.11	
<i>For &gt;100, Deduct</i>	-149.51	
26 31 00 00-0014 EA 80 Watt Polycrystalline Photovoltaic Module, 47.6" x 20.9" (BP SX380J).....	1,173.45	146.13
<i>For &gt;25 To 50, Deduct</i>	-80.70	
<i>For &gt;50 To 100, Deduct</i>	-110.04	
<i>For &gt;100, Deduct</i>	-161.40	
<b>26 31 00 00-0015 Photovoltaic Inverters (26 31)</b>		
<b>26 31 00 00-0016 Fronius Photovoltaic Inverters (26 31 00 00-0015)</b>		
26 31 00 00-0017 EA 3 KW Photovoltaic Inverter (Fronius IG Plus 3.0-1).....	5,264.63	153.82
26 31 00 00-0018 EA 5 KW Photovoltaic Inverter (Fronius IG Plus 5.0-1).....	6,926.88	153.82
26 31 00 00-0019 EA 6 KW Photovoltaic Inverter (Fronius IG Plus 6.0-1).....	7,308.78	153.82
26 31 00 00-0020 EA 7.5 KW Photovoltaic Inverter (Fronius IG Plus 7.5-1).....	8,165.60	153.82
26 31 00 00-0021 EA 10 KW Photovoltaic Inverter (Fronius IG Plus 10.0-1).....	12,898.25	153.82
26 31 00 00-0022 EA 12 KW Photovoltaic Inverter (Fronius IG Plus 12.0-3-1).....	14,984.44	153.82
26 31 00 00-0023 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3 Delta).....	12,267.75	307.65
26 31 00 00-0024 EA 11.4 KW Photovoltaic Inverter (Fronius IG Plus 11.4-3).....	15,497.13	307.65
26 31 00 00-0025 EA Inverter Display Stand (Fronius 4,045,894).....	484.19	76.91
<b>26 31 00 00-0026 SMA Photovoltaic Inverters (26 31 00 00-0015)</b>		
26 31 00 00-0027 EA 4 KW AC Photovoltaic Inverter (SMA Sunny Boy 4000TL-US-22).....	3,923.86	153.82
26 31 00 00-0028 EA 5 KW AC Photovoltaic Inverter (SMA Sunny Boy 5000TL-US-22).....	4,698.97	153.82
26 31 00 00-0029 EA 6 KW AC Photovoltaic Inverter (SMA Sunny Boy 6000TL-US-22).....	5,421.32	153.82
26 31 00 00-0030 EA 7 KW AC Photovoltaic Inverter (SMA Sunny Boy 7000TL-US-22).....	5,972.78	153.82
26 31 00 00-0031 EA 8 KW AC Photovoltaic Inverter (SMA Sunny Boy 8000TL-US-12).....	5,787.02	153.82
<b>26 31 00 00-0032 PVPowered Photovoltaic Inverters (26 31 00 00-0015)</b>		
26 31 00 00-0033 EA 120 Volt, 1.1 KW Photovoltaic Inverter (PVPowered PVP1100).....	4,842.72	153.82
26 31 00 00-0034 EA 240 Volt, 2 KW Photovoltaic Inverter (PVPowered PVP2000).....	5,062.30	153.82
26 31 00 00-0035 EA 240 Volt, 2.5 KW Photovoltaic Inverter (PVPowered PVP2500).....	5,587.43	153.82
26 31 00 00-0036 EA 240 Volt, 3.5 KW Photovoltaic Inverter (PVPowered PVP3500).....	6,628.61	192.28
26 31 00 00-0037 EA 208 Volt, 4.6 KW Photovoltaic Inverter (PVPowered PVP4600).....	8,080.36	230.73
26 31 00 00-0038 EA 240 Volt, 4.8 KW Photovoltaic Inverter (PVPowered PVP4800).....	8,147.20	230.73
26 31 00 00-0039 EA 240 Volt, 5.2 KW Photovoltaic Inverter (PVPowered PVP5200).....	8,592.10	230.73
26 31 00 00-0040 EA 208 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	101,893.99	1,230.58
26 31 00 00-0041 EA 480 Volt, 75 KW Photovoltaic Inverter (PVPowered PVP75kW).....	102,028.27	1,230.58
26 31 00 00-0042 EA 208 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	110,367.88	1,230.58
26 31 00 00-0043 EA 480 Volt, 100 KW Photovoltaic Inverter (PVPowered PVP100kW).....	102,348.72	1,230.58

**26 Electrical****26 30 Facility Electrical Power Generating and Storing Equipment****26 31 Photovoltaic Collectors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0044			<b>Solectria Photovoltaic Inverters</b> (26 31 00 00-0015)		
26 31 00 00-0045	EA		208 Or 480 Volt, 10 KW Photovoltaic Inverter (Solectria PVI) .....	16,064.78	307.65
26 31 00 00-0046	EA		208 Or 480 Volt, 13 KW Photovoltaic Inverter (Solectria PVI) .....	16,064.78	307.65
26 31 00 00-0047	EA		208 Volt, 15 KW, Photovoltaic Inverter (Solectria PVI) .....	16,531.38	307.65
26 31 00 00-0048	EA		480 Volt, 15 KW Photovoltaic Inverter (Solectria PVI) .....	16,531.38	307.65
26 31 00 00-0049	EA		208 Volt, 50 KW Photovoltaic Inverter (Solectria PVI) .....	50,319.96	922.93
26 31 00 00-0050	EA		480 Volt, 50 KW Photovoltaic Inverter (Solectria PVI) .....	47,986.98	922.93
26 31 00 00-0051	EA		208 Volt, 60 KW Photovoltaic Inverter (Solectria PVI) .....	54,985.92	922.93
26 31 00 00-0052	EA		480 Volt, 60 KW Photovoltaic Inverter (Solectria PVI) .....	53,689.82	922.93
26 31 00 00-0053	EA		208 Volt, 75 KW Photovoltaic Inverter (Solectria PVI) .....	58,355.78	922.93
26 31 00 00-0054	EA		480 Volt, 75 KW Photovoltaic Inverter (Solectria PVI) .....	55,763.58	922.93
26 31 00 00-0055	EA		208 Volt, 85 KW Photovoltaic Inverter (Solectria PVI) .....	61,563.25	1,230.58
26 31 00 00-0056	EA		480 Volt, 85 KW Photovoltaic Inverter (Solectria PVI) .....	58,711.84	1,230.58
26 31 00 00-0057	EA		208 Volt, 100 KW Photovoltaic Inverter (Solectria PVI) .....	63,896.23	1,230.58
26 31 00 00-0058	EA		480 Volt, 100 KW Photovoltaic Inverter (Solectria PVI) .....	60,526.38	1,230.58
26 31 00 00-0059			<b>Xantrex Photovoltaic Inverters</b> (26 31 00 00-0015)		
26 31 00 00-0060	EA		0.6 KW Photovoltaic Inverter (Xantrex 806-1206).....	681.35	38.46
26 31 00 00-0061	EA		1 KW Photovoltaic Inverter (Xantrex 806-1210).....	741.39	38.46
26 31 00 00-0062	EA		2 KW Photovoltaic Inverter (Xantrex 806-1220).....	1,182.60	38.46
26 31 00 00-0063			<b>Photovoltaic DC-DC Converters</b> (26 31)		
26 31 00 00-0064	EA		15 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-20).....	413.79	57.68
			Note: Hazardous locations.		
26 31 00 00-0065	EA		20 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-23).....	283.23	57.68
26 31 00 00-0066	EA		60 Amperes, 20 To 35 Volt Input, 13.8 Volt Output DC Voltage Converter (Samlex SDC-60).....	749.53	57.68
26 31 00 00-0067			<b>Photovoltaic Combiner Boxes</b> (26 31)		
26 31 00 00-0068			<b>Midnight Solar Photovoltaic Combiner Boxes</b> (26 31 00 00-0067)		
26 31 00 00-0069	EA		3 - 150 Volt DC Breaker Or 3 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV3).....	527.81	153.82
26 31 00 00-0070	EA		6 - 150 Volt DC Breaker Or 4 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV6).....	515.71	153.82
26 31 00 00-0071	EA		12 - 150 Volt DC Breaker Or 10 - 600 Volt DC Fuse Holder, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12).....	815.26	230.73
26 31 00 00-0072	EA		6 - 300 Volt DC Breaker, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV12-250) .....	819.49	230.73
26 31 00 00-0073	EA		16, 600 Volt DC Breakers, NEMA 3R, Aluminum Photovoltaic Combiner Box (Midnite Solar MNPV16).....	1,211.70	230.73
26 31 00 00-0074			<b>SMA Photovoltaic Combiner Boxes</b> (26 31 00 00-0067)		
26 31 00 00-0075	EA		6 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SBCB-6).....	1,098.48	153.82
26 31 00 00-0076	EA		12 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-12) .....	1,304.53	153.82
26 31 00 00-0077	EA		28 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-28) .....	2,530.29	307.65
26 31 00 00-0078	EA		52 Input NEMA 3R, Steel Photovoltaic Combiner Box (SMA SCCB-52) .....	5,667.49	307.65
26 31 00 00-0079	EA		4 Input NEMA 3R, Steel Combination DC Disconnect And Photovoltaic Combiner Box (SMA Combi-Switch) .....	986.97	153.82
26 31 00 00-0080			<b>Photovoltaic Charge Controller</b> (26 31)		
26 31 00 00-0081	EA		35 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-35).....	334.52	57.68
26 31 00 00-0082	EA		40 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-40).....	439.44	57.68
26 31 00 00-0083	EA		60 Amperes, 12 Or 24 Volt, Charge Controller (Xantrex C-60).....	509.38	57.68
26 31 00 00-0084	EA		Remote Digital Meter For Xantrex C-35, 40 And 60 .....	395.14	57.68
26 31 00 00-0085	EA		MPPT Charge Controller (Xantrex XW SCC).....	1,324.12	76.91
26 31 00 00-0086			<b>Photovoltaic Batteries</b> (26 31)		
26 31 00 00-0087			<b>Concorde Photovoltaic Batteries</b> (26 31 00 00-0086)		
26 31 00 00-0088	EA		34 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-340T) .....	297.71	23.07
26 31 00 00-0089	EA		45 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-420T).....	375.97	30.76
26 31 00 00-0090	EA		49 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-490T).....	406.48	30.76
26 31 00 00-0091	EA		56 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-560T).....	469.62	46.15
26 31 00 00-0092	EA		69 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-690T) .....	532.51	46.15
26 31 00 00-0093	EA		89 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-890T).....	631.76	53.83
26 31 00 00-0094	EA		104 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1040T).....	724.46	61.53
26 31 00 00-0095	EA		108 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-1080T).....	716.30	61.53
26 31 00 00-0096	EA		210 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2120T) .....	1,299.09	73.07
26 31 00 00-0097	EA		255 Ampere Hours, 12 Volt, Sealed Absorbed Glass Mat (AGM) Battery (Concorde PVX-2580T).....	1,499.64	76.91
26 31 00 00-0098			<b>Deka Photovoltaic Batteries</b> (26 31 00 00-0086)		
26 31 00 00-0099	EA		31 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8GU1).....	317.15	38.51
26 31 00 00-0100	EA		50 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G22NF).....	431.40	38.51
26 31 00 00-0101	EA		74 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G24).....	629.58	38.51
26 31 00 00-0102	EA		86 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G27).....	718.17	38.51
26 31 00 00-0103	EA		98 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G31).....	720.50	38.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0104 EA 183 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G4D).....	1,382.65	38.51
26 31 00 00-0105 EA 225 Amperes Hours Capacity At 20 Hour Lead Acid Battery (Deka BYDK8G8D).....	1,597.15	38.51
<b>26 31 00 00-0106 Battery Enclosures</b> <small>(26 31 00 00-0086)</small>		
26 31 00 00-0107 EA 14" x 12" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge 55-2501-010).....	356.69	38.46
26 31 00 00-0108 EA 22" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS1GC).....	1,692.74	38.51
26 31 00 00-0109 EA 37" x 16" x 8" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS2GCL).....	1,592.49	38.51
26 31 00 00-0110 EA 37" x 16" x 14.5" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETS4GC).....	2,117.07	38.51
26 31 00 00-0111 EA 15" x 17.1" x 8.4" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSLCF1).....	951.32	38.51
26 31 00 00-0112 EA 31" x 36" x 14" NEMA 3R Aluminum Photovoltaic Battery Enclosure (IronRidge BETSBR827BP).....	2,217.33	38.51
<b>26 31 00 00-0113 Photovoltaic System Monitoring</b> <small>(26 31)</small>		
26 31 00 00-0114 EA Solar Inverter Monitor (Xantrex 864-0203).....	751.15	76.91
26 31 00 00-0115 EA Photovoltaic System Monitoring, Remote Diagnosis, Data Storage Communication Hub (SMA Sunny WebBox).....	1,509.03	38.46
26 31 00 00-0116 EA Sun Radiation And Temperature Monitor (SMA Sunny SensorBox).....	1,263.12	38.46
26 31 00 00-0117 EA PT100 Ambient Temperature Sensor For Sunny SensorBox (SMA).....	244.36	38.46
26 31 00 00-0118 EA Wind Sensor Accessory For Sunny SensorBox (SMA).....	597.46	76.91
26 31 00 00-0119 EA Sunny Boy Control with RS485 (SMA).....	1,484.55	38.46
26 31 00 00-0120 EA RS 485 Module (SMA).....	348.28	38.46
26 31 00 00-0121 EA RS 232 Module (SMA).....	356.69	38.46
26 31 00 00-0122 EA Wireless Monitor with Bluetooth (SMA Sunny Beam).....	670.73	38.46
26 31 00 00-0123 EA Bluetooth Piggy-Back Computer Card (SMA).....	361.23	38.46
26 31 00 00-0124 EA RS485-N Communication Computer Card (SMA).....	358.88	38.46
26 31 00 00-0125 EA Bluetooth Repeater (SMA).....	665.53	38.46
26 31 00 00-0126 EA Sunny Boy PC Service Cable (SMA).....	313.78	11.54
26 31 00 00-0127 EA Integrated Revenue Grade Meter, Option (PVPowered).....	5,980.30	
26 31 00 00-0128 EA Data Monitoring Module (PVPowered PVM1010).....	684.15	38.46
26 31 00 00-0129 EA Wireless IG Personal Display (Fronius 4,240,108).....	680.96	
26 31 00 00-0130 EA DatCom Power Supply (Fronius 43,0001,2311).....	220.06	
26 31 00 00-0131 EA Wireless Card For IG Personal Display (Fronius 4,240,008,Z).....	400.94	38.46
26 31 00 00-0132 EA Retrofit Solar Inverter Interface And Power Supply Option Communication Card (Fronius 4,240,001,Z).....	341.25	38.46
26 31 00 00-0133 EA Datalogger Pro Box (Fronius 4,240,102).....	1,301.61	38.46
26 31 00 00-0134 EA Datalogger Easy Box (Fronius 4,240,103).....	851.29	38.46
26 31 00 00-0135 EA Datalogger Interface Box (Fronius 4,240,105).....	1,467.78	38.46
26 31 00 00-0136 EA Datalogger Web (Fronius 4,240,122).....	2,512.74	38.46
26 31 00 00-0137 EA Interface Box (Fronius 4,240,109).....	684.74	38.46
26 31 00 00-0138 EA Interface Card (Fronius 4,240,009,Z).....	492.35	38.46
26 31 00 00-0139 EA Interface Card Easy (Fronius 4,240,013,Z).....	329.14	38.46
26 31 00 00-0140 EA Sensor Box (Fronius 4,240,104).....	1,358.82	38.46
26 31 00 00-0141 EA Ambient Temperature Sensor (Fronius 43,0001,1188).....	162.37	38.46
26 31 00 00-0142 EA Irradiance Sensor (Fronius 43,0001,1188).....	480.50	38.46
26 31 00 00-0143 EA Module Temperature Sensor (Fronius 43,0001,1190).....	533.65	38.46
26 31 00 00-0144 EA Wind Speed Sensor (Fronius 42,0411,0027).....	301.71	76.91
<b>26 31 00 00-0145 Photovoltaic System Accessories</b> <small>(26 31)</small>		
26 31 00 00-0146 EA Four Inverter Bypass Switch (OutBack AC-IOB-100Q).....	1,019.34	76.91
26 31 00 00-0147 EA Line Communication Filter (Enphase LCF).....	2,217.15	153.82
26 31 00 00-0148 EA 15 Meter RS 485 Communication Cable (SMA).....	169.95	11.54
26 31 00 00-0149 EA 15 Meter RS 232 Communication Cable (SMA).....	253.89	11.54
26 31 00 00-0150 EA 24" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	40.18	3.81
26 31 00 00-0151 EA 36" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	43.00	3.81
26 31 00 00-0152 EA 48" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	44.59	3.81
26 31 00 00-0153 EA 72" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	49.00	3.81
26 31 00 00-0154 EA 120" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	55.61	3.81
26 31 00 00-0155 EA 240" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	89.17	7.61
26 31 00 00-0156 EA 360" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	109.68	7.61
26 31 00 00-0157 EA 420" #10 AWG Male Or Female Photovoltaic Multi-Contact Module Interconnect.....	144.77	11.42
26 31 00 00-0158 EA 36" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	50.10	3.81
26 31 00 00-0159 EA 120" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	68.82	3.81
26 31 00 00-0160 EA 240" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	102.39	7.61
26 31 00 00-0161 EA 360" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	135.44	7.61
26 31 00 00-0162 EA 600" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	221.31	15.23
26 31 00 00-0163 EA 1200" #10 AWG Male And Female Photovoltaic Multi-Contact Module Interconnect.....	230.64	15.23
26 31 00 00-0164 EA Lighting Kit, 9 Watt Fluorescent, 12 Volt, 4.5 Ampere Hours Battery.....	4,111.65	415.31
Note: Tamper proof enclosure.		
<b>26 31 00 00-0165 Photovoltaic Mounting Systems</b> <small>(26 31)</small>		
26 31 00 00-0166 LF Anodized Aluminum Photovoltaic Module Mounting Rail (UNIRAC SolarMount Standard).....	14.93	3.85
26 31 00 00-0167 EA Splice Bar For Photovoltaic Module Mounting Rail (UNIRAC 310229).....	45.77	19.22
26 31 00 00-0168 EA Splice Plate For Photovoltaic Module Mounting Rail (UNIRAC 310216).....	56.15	19.22
26 31 00 00-0169 EA 8" x 3/8" Hanger Bolt (UNIRAC 310046).....	28.77	7.69
Note: Supports mounting rail above tile or metal roof.		
26 31 00 00-0170 EA Mounting Rail Grounding Clip (UNIRAC 980006).....	14.44	5.77
Note: One grounding clip for every two top mounting clamps (end clamps + mid clamps) in your installation. Only one of the two rails in each row requires grounding clips.		
26 31 00 00-0171 EA Mounting Rail Grounding Lugs (UNIRAC 980012).....	29.25	7.69
Note: Two grounding lugs for each rail splice and one additional lug for each rail.		

**26 Electrical**  
**26 30 Facility Electrical Power Generating and Storing Equipment**  
**26 31 Photovoltaic Collectors**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 31 00 00-0172	EA	Anodized Aluminum Photovoltaic Module Mounting End Clamp (UNIRAC 320002) ..... Note: Four for each row of modules you plan to mount.	8.02	2.56
26 31 00 00-0173	EA	Anodized Aluminum Photovoltaic Module Mounting Mid Clamp (UNIRAC 320008) ..... Note: For each row, take one less than the number of modules in the row and multiply that figure by 2.	8.36	2.56
26 31 00 00-0174	EA	Photovoltaic Module Mount L-Feet (UNIRAC 310065).....	21.20	7.69
26 31 00 00-0175	EA	12" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310121) ..... Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	123.59	38.46
26 31 00 00-0176	EA	30" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310122) ..... Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	135.34	38.46
26 31 00 00-0177	EA	44" Leg Extension, Photovoltaic Module One Leg Tilt Kit (UNIRAC 310123) ..... Note: Includes one square tube, one strut insert, two L-feet, and stainless steel hardware for use with mounting rail. Excludes standoffs.	144.80	38.46
26 31 00 00-0178	EA	12" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310107) ..... Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	181.95	57.68
26 31 00 00-0179	EA	44" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310108) ..... Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	217.20	57.68
26 31 00 00-0180	EA	72" Leg Extension, Photovoltaic Module Two Leg Tilt Kit (UNIRAC 310109) ..... Note: Includes two square tubes, two strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	249.19	57.68
26 31 00 00-0181	EA	18" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310111) ..... Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	279.16	76.91
26 31 00 00-0182	EA	64" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310112) ..... Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	363.38	76.91
26 31 00 00-0183	EA	104" Leg Extension, Photovoltaic Module Four Leg Tilt Kit (UNIRAC 310110) ..... Note: Includes four square tubes, four strut inserts, and fasteners for use with mounting rail. Excludes standoffs and L-feet.	513.40	115.36
26 31 00 00-0184	EA	Ballasted Photovoltaic Module Frame (UNIRAC 310351)..... Note: Excludes ballast.	251.15	
26 31 00 00-0185	EA	Ballasted Photovoltaic Module Frame With Module Mount (UNIRAC 310355)..... Note: Excludes ballast.	463.85	
26 31 00 00-0186	EA	3" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310051).....	100.11	38.46
26 31 00 00-0187	EA	4" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310052).....	101.19	38.46
26 31 00 00-0188	EA	6" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310053).....	102.18	38.46
26 31 00 00-0189	EA	7" High Galvanized Steel Photovoltaic Module Standoff (UNIRAC 310054).....	104.65	38.46
26 31 00 00-0190	EA	3" High Aluminum Photovoltaic Module Standoff (UNIRAC 310553).....	93.56	38.46
26 31 00 00-0191	EA	4" High Aluminum Photovoltaic Module Standoff (UNIRAC 310554).....	94.81	38.46
26 31 00 00-0192	EA	6" High Aluminum Photovoltaic Module Standoff (UNIRAC 310555).....	98.45	38.46
26 31 00 00-0193	EA	7" High Aluminum Photovoltaic Module Standoff (UNIRAC 310556).....	97.42	38.46
26 31 00 00-0194	EA	3" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310390).....	186.52	57.68
26 31 00 00-0195	EA	4" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310391).....	187.27	57.68
26 31 00 00-0196	EA	7" Photovoltaic Module FastFoot Standoff Assembly (UNIRAC 310394).....	189.49	57.68
26 31 00 00-0197	EA	Photovoltaic Module Rapidfoot Standoff Assembly (UNIRAC 310370).....	187.17	57.68
26 31 00 00-0198	EA	Photovoltaic Module Standoff Flashing (UNIRAC 990103).....	35.90	7.69
26 31 00 00-0199	EA	Photovoltaic Module Standoff Ethylene Propylene Diene Monomer (EPDM) Patch (UNIRAC 990161).....	24.56	7.69
26 31 00 00-0200	EA	1/4" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004030M-0100).....	45.53	11.54
26 31 00 00-0201	EA	3/8" Photovoltaic Module Standing Seam Metal Roof Mounting Block (UNIRAC 004031M-0100).....	47.22	11.54
26 31 00 00-0202	EA	Photovoltaic Module Standing Seam Metal Roof Mounting Clamp (UNIRAC 004032M-0100)..... Note: Mid or end clamp.	12.95	2.56
26 31 00 00-0203	EA	Photovoltaic Module Tile Roof Mounting Hook (UNIRAC 905011C-0024).....	57.71	7.69
26 31 00 00-0204	EA	Photovoltaic Module Wire Clip (UNIRAC 908002S-0100).....	3.28	

**26 32 Packaged Generator Assemblies (26 30)**

**26 32 13 Engine Generators (26 32)**

See CSI section 23 13 23 13-0001 for fuel storage tanks.

**26 32 13 13 Diesel-Engine-Driven Generator Sets (26 32 13)**

See CSI section 01 22 23 00-0772 for fuel reimbursement for commissioning.

**26 32 13 13-0001 Diesel Generator Sets (Cummins) (26 32 13 13)**

Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, active diesel particulate filter, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0751 for loadbank rental, 01 22 23 00-0772 for fuel reimbursement, 23 13 23 13-0001 for fuel day tank, 26 36 23 00-0000 for automatic transfer switch.

26 32 13 13-0002	EA	25 KW Diesel Generator Set, 3 Phase (Cummins DSKCA).....	32,798.22	1,290.54
		<i>For Weather Resistant Steel Diesel Generator Enclosure, Add</i>	4,945.11	
		<i>For Quietsite Level 1 Steel Diesel Generator Enclosure, Add</i>	11,636.80	
		<i>For Quietsite Level 2 Steel Diesel Generator Enclosure, Add</i>	15,515.73	
		<i>For Weather Resistant Aluminum Diesel Generator Enclosure, Add</i>	12,591.11	
		<i>For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add</i>	18,263.92	
		<i>For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add</i>	24,351.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0003 EA 35 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....	34,897.61	1,588.98
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,945.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	11,636.80	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	15,515.73	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	12,591.11	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,263.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,351.89	
26 32 13 13-0004 EA 40 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....	36,040.10	1,742.24
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,945.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	11,636.80	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	15,515.73	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	12,591.11	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,263.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,351.89	
26 32 13 13-0005 EA 50 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....	42,153.18	2,000.34
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,945.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	11,636.80	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	15,515.73	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	12,591.11	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,263.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,351.89	
26 32 13 13-0006 EA 60 KW Diesel Generator Set, 3 Phase (Cummins DSFAA).....	45,390.28	2,298.77
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,945.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	11,636.80	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	15,515.73	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	12,591.11	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,263.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,351.89	
26 32 13 13-0007 EA 80 KW Diesel Generator Set, 3 Phase (Cummins DSFAE).....	53,233.54	2,694.01
For Weather Resistant Steel Diesel Generator Enclosure, Add	4,945.11	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	11,636.80	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	15,515.73	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	12,591.11	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	18,263.92	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	24,351.89	
26 32 13 13-0008 EA 100 KW Diesel Generator Set, 3 Phase (Cummins DSGAA).....	57,212.80	3,129.57
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,500.69	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	17,791.66	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	23,722.22	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,154.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,421.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,894.92	
26 32 13 13-0009 EA 125 KW Diesel Generator Set, 3 Phase (Cummins DSGAB).....	58,738.99	3,710.31
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,500.69	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	17,791.66	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	23,722.22	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,154.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,421.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,894.92	
26 32 13 13-0010 EA 150 KW Diesel Generator Set, 3 Phase (Cummins DSGAC).....	64,915.93	4,089.41
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,500.69	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	17,791.66	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	23,722.22	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,154.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,421.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,894.92	
26 32 13 13-0011 EA 175 KW Diesel Generator Set, 3 Phase (Cummins DSHAB).....	68,146.22	4,565.30
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,500.69	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	17,791.66	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	23,722.22	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,154.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,421.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,894.92	
26 32 13 13-0012 EA 200 KW Diesel Generator Set, 3 Phase (Cummins DSHAC).....	72,322.39	5,000.85
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,500.69	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	17,791.66	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	23,722.22	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,154.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,421.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,894.92	
26 32 13 13-0013 EA 230 KW Diesel Generator Set, 3 Phase (Cummins DSHAD).....	77,727.97	5,283.15
For Weather Resistant Steel Diesel Generator Enclosure, Add	7,500.69	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	17,791.66	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	23,722.22	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	16,154.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	19,421.19	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	25,894.92	
26 32 13 13-0014 EA 250 KW Diesel Generator Set, 3 Phase (Cummins DQDAA).....	80,916.79	5,500.93
For Weather Resistant Steel Diesel Generator Enclosure, Add	48,643.80	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	53,862.81	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	71,817.07	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	58,997.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	65,840.38	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	87,787.18	

**26 Electrical**

**26 30 Facility Electrical Power Generating and Storing Equipment**

**26 32 Packaged Generator Assemblies**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 13-0015 EA 275 KW Diesel Generator Set, 3 Phase (Cummins DQHAA) .....	87,853.59	5,799.37
For Weather Resistant Steel Diesel Generator Enclosure, Add	48,643.80	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	53,862.81	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	71,817.07	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	58,997.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	65,840.38	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	87,787.18	
26 32 13 13-0016 EA 300 KW Diesel Generator Set, 3 Phase (Cummins DQHAB) .....	89,868.82	6,057.48
For Weather Resistant Steel Diesel Generator Enclosure, Add	48,643.80	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	53,862.81	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	71,817.07	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	58,997.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	65,840.38	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	87,787.18	
26 32 13 13-0017 EA 350 KW Diesel Generator Set, 3 Phase (Cummins DFEG) .....	100,918.05	6,775.35
For Weather Resistant Steel Diesel Generator Enclosure, Add	48,643.80	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	53,862.81	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	71,817.07	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	58,997.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	65,840.38	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	87,787.18	
26 32 13 13-0018 EA 400 KW Diesel Generator Set, 3 Phase (Cummins DFEH) .....	108,493.25	7,420.62
For Weather Resistant Steel Diesel Generator Enclosure, Add	48,643.80	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	53,862.81	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	71,817.07	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	58,997.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	65,840.38	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	87,787.18	
26 32 13 13-0019 EA 450 KW Diesel Generator Set, 3 Phase (Cummins DFEJ) .....	121,967.56	7,993.30
For Weather Resistant Steel Diesel Generator Enclosure, Add	48,643.80	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	53,862.81	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	71,817.07	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	58,997.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	65,840.38	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	87,787.18	
26 32 13 13-0020 EA 500 KW Diesel Generator Set, 3 Phase (Cummins DFEK) .....	128,143.79	8,517.58
For Weather Resistant Steel Diesel Generator Enclosure, Add	48,643.80	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	53,862.81	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	71,817.07	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	58,997.62	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	65,840.38	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	87,787.18	
26 32 13 13-0021 EA 600 KW Diesel Generator Set, 3 Phase (Cummins DQCA) .....	184,042.06	9,380.63
For Weather Resistant Steel Diesel Generator Enclosure, Add	99,370.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	119,665.13	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	159,553.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	116,878.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	139,408.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	185,877.43	
26 32 13 13-0022 EA 750 KW Diesel Generator Set, 3 Phase (Cummins DQCB) .....	210,464.93	10,316.28
For Weather Resistant Steel Diesel Generator Enclosure, Add	99,370.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	119,665.13	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	159,553.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	116,878.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	139,408.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	185,877.43	
26 32 13 13-0023 EA 800 KW Diesel Generator Set, 3 Phase (Cummins DQCC) .....	219,631.50	10,542.11
For Weather Resistant Steel Diesel Generator Enclosure, Add	99,370.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	119,665.13	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	159,553.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	116,878.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	139,408.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	185,877.43	
26 32 13 13-0024 EA 900 KW Diesel Generator Set, 3 Phase (Cummins DQFAC) .....	266,996.88	11,364.84
For Weather Resistant Steel Diesel Generator Enclosure, Add	99,370.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	119,665.13	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	159,553.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	116,878.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	139,408.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	185,877.43	
26 32 13 13-0025 EA 1,000 KW Diesel Generator Set, 3 Phase (Cummins DQFAD) .....	298,401.37	12,098.83
For Weather Resistant Steel Diesel Generator Enclosure, Add	99,370.36	
For Quietsite Level 1 Steel Diesel Generator Enclosure, Add	119,665.13	
For Quietsite Level 2 Steel Diesel Generator Enclosure, Add	159,553.51	
For Weather Resistant Aluminum Diesel Generator Enclosure, Add	116,878.90	
For Quietsite Level 1 Aluminum Diesel Generator Enclosure, Add	139,408.07	
For Quietsite Level 2 Aluminum Diesel Generator Enclosure, Add	185,877.43	

**26 32 13 19 Natural Gas-Engine-Driven Generator Sets (26 32 13)**



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0001	<b>Natural Gas Or Propane Generator Sets (Cummins)</b> <small>(26 32 13 19)</small>			
		Note: 3 Phase, 4-Wire 480/277 or 208/120 Volt complete with radiator, fuel pump, battery charger, silencer, exhaust flex, indicating and operating controls, electronic governor. Pricing based on installation above grade on concrete pad without enclosure. Includes manufacturer's representative at startup. Excludes fuel, fuel tank, enclosure, utility piping, wiring, automatic transfer switch, loadbank testing and concrete pad. See CSI section 01 22 23 00-0751 for loadbank rental, 01 22 23 00-0772 for fuel reimbursement, 26 36 23 00-0000 for automatic transfer switches.		
26 32 13 19-0002	EA 20 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMA) .....		14,097.05	1,080.83
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,497.66	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		11,636.80	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		15,515.73	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		4,871.29	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		8,081.94	
26 32 13 19-0003	EA 25 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMB) .....		15,917.56	1,290.54
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,497.66	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		11,636.80	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		15,515.73	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		4,871.29	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		8,081.94	
26 32 13 19-0004	EA 29 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGMC) .....		18,285.58	1,435.73
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,497.66	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		11,636.80	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		15,515.73	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		4,871.29	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		8,081.94	
26 32 13 19-0005	EA 35 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPA) .....		20,671.22	1,588.98
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,497.66	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		11,636.80	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		15,515.73	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		13,778.95	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		23,127.14	
26 32 13 19-0006	EA 40 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPB) .....		23,130.37	1,742.24
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,497.66	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		11,636.80	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		15,515.73	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		13,778.95	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		23,127.14	
26 32 13 19-0007	EA 45 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGPC) .....		25,032.21	1,879.35
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,497.66	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		11,636.80	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		15,515.73	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		13,778.95	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		23,127.14	
26 32 13 19-0008	EA 60 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHE) .....		27,498.68	2,298.77
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,497.66	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		11,636.80	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		15,515.73	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		13,778.95	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		23,127.14	
26 32 13 19-0009	EA 70 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHF) .....		29,544.26	2,573.02
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		4,497.66	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		11,636.80	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		15,515.73	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		13,778.95	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		23,127.14	
26 32 13 19-0010	EA 85 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHG) .....		38,287.72	2,750.47
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		8,197.25	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		17,791.66	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		23,722.22	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		16,154.62	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		23,127.14	
26 32 13 19-0011	EA 100 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGHH) .....		45,929.84	3,097.30
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		8,197.25	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		17,791.66	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		23,722.22	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		16,154.62	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		23,127.14	
26 32 13 19-0012	EA 125 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGIA) .....		52,740.52	3,710.31
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		8,197.25	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		17,791.66	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		23,722.22	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		16,154.62	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		23,127.14	
26 32 13 19-0013	EA 150 KW Natural Gas Or Propane Generator Set, 3 Phase (Cummins GGIB) .....		62,404.80	4,089.41
	For Weather Resistant Steel Natural Gas Or Propane Generator Enclosure, Add		8,197.25	
	For Quietsite Level 1 Steel Natural Gas Or Propane Generator Enclosure, Add		17,791.66	
	For Quietsite Level 2 Steel Natural Gas Or Propane Generator Enclosure, Add		23,722.22	
	For Weather Resistant Aluminum Natural Gas Or Propane Generator Enclosure, Add		16,154.62	
	For Quietsite Level 2 Aluminum Natural Gas Or Propane Generator Enclosure, Add		23,127.14	
26 32 13 19-0014	EA 175 KW Natural Gas Generator Set, 3 Phase (Cummins GFBA) .....		99,424.61	10,877.50
	For Weather Resistant Steel Natural Gas Generator Enclosure, Add		43,744.82	
	For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add		48,424.11	
	For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add		64,565.48	
	For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add		47,829.61	
	For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add		71,773.24	

**26 Electrical**

**26 30 Facility Electrical Power Generating and Storing Equipment**

**26 32 Packaged Generator Assemblies**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 32 13 19-0015 EA 205 KW Natural Gas Generator Set, 3 Phase (Cummins GFBB) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	112,645.55 43,744.82 48,424.11 64,565.48 47,829.61 71,773.24	4,912.12
26 32 13 19-0016 EA 250 KW Natural Gas Generator Set, 3 Phase (Cummins GFBC) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	121,228.66 43,744.82 48,424.11 64,565.48 47,829.61 71,773.24	5,500.93
26 32 13 19-0017 EA 300 KW Natural Gas Generator Set, 3 Phase (Cummins GFEA) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	156,010.32 43,744.82 48,424.11 64,565.48 47,829.61 71,773.24	6,057.48
26 32 13 19-0018 EA 350 KW Natural Gas Generator Set, 3 Phase (Cummins GFEB) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	167,589.16 43,744.82 48,424.11 64,565.48 47,829.61 71,773.24	6,775.35
26 32 13 19-0019 EA 450 KW Natural Gas Generator Set, 3 Phase (Cummins GFGA) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	234,346.11 95,518.52 101,487.71 135,316.95 108,492.50 153,337.53	7,993.30
26 32 13 19-0020 EA 500 KW Natural Gas Generator Set, 3 Phase (Cummins GFJB) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	298,829.10 95,518.52 101,487.71 135,316.95 108,492.50 153,337.53	8,517.58
26 32 13 19-0021 EA 550 KW Natural Gas Generator Set, 3 Phase (Cummins GFJC) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	333,961.90 95,518.52 101,487.71 135,316.95 108,492.50 153,337.53	8,977.34
26 32 13 19-0022 EA 600 KW Natural Gas Generator Set, 3 Phase (Cummins GFLA) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	379,785.42 95,518.52 101,487.71 135,316.95 108,492.50 153,337.53	9,380.63
26 32 13 19-0023 EA 650 KW Natural Gas Generator Set, 3 Phase (Cummins GFLB) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	397,028.10 95,518.52 101,487.71 135,316.95 108,492.50 153,337.53	9,735.53
26 32 13 19-0024 EA 725 KW Natural Gas Generator Set, 3 Phase (Cummins GFLC) ..... <i>For Weather Resistant Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 1 Steel Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Steel Natural Gas Generator Enclosure, Add</i> <i>For Weather Resistant Aluminum Natural Gas Generator Enclosure, Add</i> <i>For Quietsite Level 2 Aluminum Natural Gas Generator Enclosure, Add</i>	419,964.93 95,518.52 101,487.71 135,316.95 108,492.50 153,337.53	10,405.00
<b>26 32 13 19-0025 Small Natural Gas Or Propane Air Cooled Generator Sets</b> <small>(26 32 13 19)</small>		
26 32 13 19-0026 EA 7.5 KW Natural Gas Or Propane Air Cooled Generator Set ..... Note: Includes weatherproof composite enclosure and 100 A automatic transfer switch.	4,863.69	707.48
26 32 13 19-0027 EA 10 KW Natural Gas Or Propane Air Cooled Generator Set ..... Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	6,072.47	786.09
26 32 13 19-0028 EA 14 KW Natural Gas Or Propane Air Cooled Generator Set ..... Note: Includes weatherproof composite enclosure and 200 A automatic transfer switch.	6,979.74	864.70

**26 32 29 Rotary Converters** (26 32)

**26 32 29 00-0001 60 Hz AC Input 230 Or 460 Volt, 125 Volt DC Output** (26 32 29)

26 32 29 00-0002 EA 3 KW, 24 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	9,891.07	307.65
26 32 29 00-0003 EA 5 KW, 40 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	12,024.74	307.65
26 32 29 00-0004 EA 7.5 KW, 60 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	15,894.83	307.65
26 32 29 00-0005 EA 10 KW, 80 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	16,019.02	307.65
26 32 29 00-0006 EA 15 KW, 120 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	17,796.94	384.55
26 32 29 00-0007 EA 20 KW, 160 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	19,262.97	384.55
26 32 29 00-0008 EA 25 KW, 200 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	20,164.49	384.55
26 32 29 00-0009 EA 40 KW, 320 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	24,570.39	507.62
26 32 29 00-0010 EA 50 KW, 400 Amperes, 125 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	27,288.27	507.62





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 32 29 00-0011</b> <b>60 Hz AC Input, 230 Or 460 Volt, 250 Volts DC Output</b> <small>(26 32 29)</small>		
26 32 29 00-0012 EA 3 KW, 12 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	11,435.74	307.65
26 32 29 00-0013 EA 5 KW, 20 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	13,616.21	307.65
26 32 29 00-0014 EA 7.5 KW, 30 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	15,558.75	307.65
26 32 29 00-0015 EA 10 KW, 40 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	15,987.51	307.65
26 32 29 00-0016 EA 15 KW, 60 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	18,121.32	384.55
26 32 29 00-0017 EA 20 KW, 80 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	19,915.94	384.55
26 32 29 00-0018 EA 25 KW, 100 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	20,568.91	384.55
26 32 29 00-0019 EA 40 KW, 160 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	24,473.50	507.62
26 32 29 00-0020 EA 50 KW, 200 Amperes, 250 Volt DC, Rectifier 230 Or 460 AC To DC Conversion .....	25,952.16	507.62
<b>26 32 29 00-0021</b> <b>460 Volt 3 Phase AC Motor Drive 250 Volt DC</b> <small>(26 32 29)</small>		
26 32 29 00-0022 EA 33 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	30,010.24	5,646.12
26 32 29 00-0023 EA 40 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	33,406.92	5,646.12
26 32 29 00-0024 EA 50 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	38,060.39	8,065.89
26 32 29 00-0025 EA 65 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	44,257.80	8,065.89
26 32 29 00-0026 EA 85 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	50,106.58	8,065.89
26 32 29 00-0027 EA 100 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	59,021.75	12,098.83
26 32 29 00-0028 EA 125 KW, 460 Volt AC Drive Motor To 250 Volt DC, AC To DC Electrical Conversion .....	71,762.22	12,098.83
<b>26 32 29 00-0029</b> <b>4,160 Volt 3 Phase AC Motor Drive 250 Or 500 Volt DC</b> <small>(26 32 29)</small>		
26 32 29 00-0030 EA 170 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....	103,533.38	16,131.78
26 32 29 00-0031 EA 200 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....	112,870.16	16,131.78
26 32 29 00-0032 EA 240 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....	135,713.60	20,971.32
26 32 29 00-0033 EA 320 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....	154,373.13	25,488.21
26 32 29 00-0034 EA 400 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....	182,607.77	25,488.21
26 32 29 00-0035 EA 560 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....	258,651.54	38,071.00
26 32 29 00-0036 EA 640 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....	268,119.93	38,071.00
26 32 29 00-0037 EA 800 KW, 4,160 Volt AC Drive Motor - 250 Volt DC, AC To DC Electrical Conversion .....	308,380.87	44,362.40
<b>26 33 Battery Equipment</b> <small>(26 30)</small>		
<b>26 33 13 Batteries</b> <small>(26 33)</small>		
<b>26 33 13 00-0001</b> <b>Standby Batteries</b> <small>(26 33 13)</small>		
26 33 13 00-0002 EA 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery .....	1,211.87	38.51
26 33 13 00-0003 EA 12 Volt, 100 Ampere Hours To 10.5 Volt Capacity, 6-Cell, Valve Regulated Lead-Calcium, Standby Battery With Steel Jacket .....	1,308.04	38.51
26 33 13 00-0004 EA 725CCA, Group 31, 12 Volt Lead Calcium Standby Battery .....	384.14	38.51
26 33 13 00-0005 EA 810CCA, Group 24, 12 Volt Lead Calcium Standby Battery .....	350.36	38.51
26 33 13 00-0006 EA 1080CCA, Group 4D, 12 Volt Lead Calcium Standby Battery .....	591.22	38.51
26 33 13 00-0007 EA 1400CCA, Group 8D, 12 Volt Lead Calcium Standby Battery .....	684.55	38.51
<b>26 33 43 Battery Chargers</b> <small>(26 33)</small>		
<b>26 33 43 00-0001</b> <b>Solid State Chargers, Single Phase</b> <small>(26 33 43)</small>		
Note: Includes wall bracket, 10' of DC charging cable and standard connector, 208/240/480 V.		
26 33 43 00-0002 EA Solid State Battery Charger, 6 Cell Single Phase With Wall Bracket, 208/240/480 Volt .....	3,715.47	878.45
26 33 43 00-0003 EA Solid State Battery Charger, 9 Cell Single Phase With Wall Bracket, 208/240/480 Volt .....	4,311.91	878.45
26 33 43 00-0004 EA Solid State Battery Charger, 12 Cell Single Phase With Wall Bracket, 208/240/480 Volt .....	4,742.37	878.45
26 33 43 00-0005 EA Solid State Battery Charger, 18 Cell Single Phase With Wall Bracket, 208/240/480 Volt .....	5,030.38	1,040.08
<b>26 33 53 Static Uninterruptible Power Supply</b> <small>(26 33)</small>		
<b>26 33 53 00-0001</b> <b>Single Phase, Uninterruptible Power Supply Systems (UPS)</b> <small>(26 33 53)</small>		
<b>26 33 53 00-0002</b> <b>Single Phase, Uninterruptible Power Supply Systems (UPS)</b> <small>(26 33 53 00-0001)</small>		
<b>26 33 53 00-0003</b> <b>120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS)</b> <small>(26 33 53 00-0002)</small>		
Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0004 EA 0.5 kVA, 450 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-500RT120) .....	1,242.08	152.29
Note: Includes 12 minutes of battery backup at full load.		
26 33 53 00-0005 EA 0.7 kVA, 630 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT120) .....	1,480.78	177.66
Note: Includes 6 minutes of battery backup at full load.		
26 33 53 00-0006 EA 1 kVA, 900 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT120) .....	1,814.26	203.04
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0007 EA 1.5 kVA, 1,350 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT120) .....	2,202.88	228.43
Note: Includes 5 minutes of battery backup at full load.		
26 33 53 00-0008 EA 2 kVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT120) .....	2,799.82	253.80
Note: Includes 4 minutes of battery backup at full load.		

**26 Electrical****26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0009 EA 3 KVA, 2,700 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT120)..... Note: Includes 4 minutes of battery backup at full load.	4,437.97	304.57
<b>26 33 53 00-0010 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b> Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0011 EA 3 KVA, 2,700 Watt, 208 Volt AC Output, 208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT208)..... Note: Includes 4 minutes of battery backup at full load.	4,360.10	304.57
<b>26 33 53 00-0012 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b> Note: Rack mount or tower configuration. Includes 50 or 60 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0013 EA 5 KVA, 4,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT208)..... Note: Includes 5 minutes of battery backup at full load.	6,682.29	406.09
26 33 53 00-0014 EA 6 KVA, 4,800 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT208)..... Note: Includes 4 minutes of battery backup at full load.	7,316.31	456.85
26 33 53 00-0015 EA 8 KVA, 7,200 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-8000RT208)..... Note: Includes 7 minutes of battery backup at full load.	10,854.63	558.37
26 33 53 00-0016 EA 10 KVA, 9,000 Watt, 120/208 Volt AC Output, 120/208 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT208)..... Note: Includes 4-1/2 minutes of battery backup at full load.	12,455.14	609.13
<b>26 33 53 00-0017 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (26 33 53 00-0002)</b> Note: Rack mount or tower configuration. Includes 40 or 70 Hertz automatic frequency detection, internal automatic and manual bypass switch and self diagnostics.		
26 33 53 00-0018 EA 0.7 KVA, 630 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-700RT230)..... Note: Includes 11 minutes of battery backup at full load.	1,480.78	177.66
26 33 53 00-0019 EA 1 KVA, 900 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1000RT230)..... Note: Includes 6 minutes of battery backup at full load.	1,814.26	203.04
26 33 53 00-0020 EA 1.5 KVA, 1,350 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-1500RT230)..... Note: Includes 4 minutes of battery backup at full load.	2,225.88	228.43
26 33 53 00-0021 EA 2 KVA, 1,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-2000RT230)..... Note: Includes 4 minutes of battery backup at full load.	2,805.37	253.80
26 33 53 00-0022 EA 3 KVA, 2,700 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-3000RT230)..... Note: Includes 4 minutes of battery backup at full load.	4,455.25	304.57
26 33 53 00-0023 EA 5 KVA, 4,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-5000RT230)..... Note: Includes 9 minutes of battery backup at full load.	6,422.24	406.09
26 33 53 00-0024 EA 6 KVA, 4,800 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-6000RT230)..... Note: Includes 6 minutes of battery backup at full load.	7,856.97	456.85
26 33 53 00-0025 EA 10 KVA, 9,000 Watt, 230 Volt AC Output, 230 Volt AC Input, Single Phase, On-Line, Uninterruptible Power Supply (UPS) (Liebert® GXT3-10000RT230)..... Note: Includes 3 minutes of battery backup at full load.	12,083.39	609.13
<b>26 33 53 00-0026 Optional Accessories For Single Phase, Uninterruptible Power Supply Systems (26 33 53 00-0001)</b>		
26 33 53 00-0027 EA External Battery Cabinet For 0.5 To 2 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-48VBATT)..... Note: Rack mount or tower configuration.	775.58	46.15
26 33 53 00-0028 EA External Battery Cabinet For 3 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-72VBATT)..... Note: Rack mount or tower configuration.	1,009.50	46.15
26 33 53 00-0029 EA External Battery Cabinet For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATT)..... Note: Rack mount or tower configuration.	983.46	46.15
26 33 53 00-0030 EA External Battery Cabinet For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTVBATT)..... Note: Rack mount or tower configuration.	674.81	46.15
26 33 53 00-0031 EA Internal Replacement Battery For 5 To 6 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-144VBATKIT).....	1,070.98	152.29
26 33 53 00-0032 EA Internal Replacement Battery For 8 To 10 KVA Single Phase, Uninterruptible Power Supply Systems (Liebert® GXT3-288RTBKIT).....	1,224.80	203.04
<b>26 33 53 00-0033 Three Phase, Uninterruptible Power Supply Systems (UPS) (26 33 53)</b>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 33 53 00-0034				<b>208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) With Internal Battery</b> <small>(26 33 53 00-0033)</small>		
				Note: Includes start-up, 60 Hz frequency, bypass switch and diagnostics.		
26 33 53 00-0035	EA			10 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	41,937.62	609.13
26 33 53 00-0036	EA			15 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	46,523.34	812.18
26 33 53 00-0037	EA			20 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	52,077.47	1,015.22
26 33 53 00-0038	EA			30 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	56,566.36	1,218.27
26 33 53 00-0039	EA			40 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System With Internal Battery (Emerson eXM UPS).....	68,027.72	1,421.31
26 33 53 00-0040				<b>208 Volt AC Output, 120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery</b> <small>(26 33 53 00-0033)</small>		
				Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0041	EA			60 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	92,528.52	2,422.69
26 33 53 00-0042	EA			80 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	100,995.15	2,999.52
26 33 53 00-0043	EA			100 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	111,830.02	3,499.44
26 33 53 00-0044	EA			120 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	137,680.68	3,960.90
26 33 53 00-0045	EA			140 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	143,189.33	4,422.36
26 33 53 00-0046	EA			160 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	148,766.20	4,883.83
26 33 53 00-0047	EA			180 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	155,505.14	5,345.29
26 33 53 00-0048	EA			200 kVA, 208/120 Volt AC Output, 208-120 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	162,244.08	5,806.76
26 33 53 00-0049				<b>480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply (UPS) Without Internal Battery</b> <small>(26 33 53 00-0033)</small>		
				Note: Excludes Internal Battery See CSI section 26 33 53 00-0055 for batteries.		
26 33 53 00-0050	EA			50 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	86,297.93	1,999.68
26 33 53 00-0051	EA			100 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	112,411.06	3,514.82
26 33 53 00-0052	EA			150 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	153,111.09	4,060.88
26 33 53 00-0053	EA			200 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	180,026.99	4,460.82
26 33 53 00-0054	EA			250 kVA, 480 Volt AC Output, 480 Volt AC Input, Three Phase, On-Line, Uninterruptible Power Supply System Without Internal Battery (Emerson eXM UPS).....	210,235.46	4,922.29
26 33 53 00-0055				<b>Optional Accessories For Three Phase, Uninterruptible Power Supply Systems</b> <small>(26 33 53 00-0033)</small>		
26 33 53 00-0056	EA			Programmable Relay Board For Three Phase Uninterruptible Power Supply Systems.....	707.84	76.91
26 33 53 00-0057	EA			Network Interface Card For Three Phase Uninterruptible Power Supply Systems.....	1,118.25	76.91
26 33 53 00-0058	EA			Remote Status Panel With 100' Of Cable For Three Phase Uninterruptible Power Supply Systems.....	2,218.44	153.82
26 33 53 00-0059	EA			Slim Line Distribution Panel With Two 42 Pole Panels For Three Phase Uninterruptible Power Supply Systems.....	7,026.68	615.28
26 33 53 00-0060	EA			12 Volt, 491 Watt, 3 Phase, 134 Ampere Hours, Battery For Uninterruptible Power Supply Systems (C&D UPS12-490MR).....	640.10	76.91
26 33 53 00-0061	EA			12 Volt, 204 Watt, 3 Phase, 55 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX200).....	352.78	76.91
26 33 53 00-0062	EA			12 Volt, 257 Watt, 3 Phase, 65 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX250).....	394.71	76.91
26 33 53 00-0063	EA			12 Volt, 311 Watt, 3 Phase, 75 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX300).....	436.63	76.91
26 33 53 00-0064	EA			12 Volt, 374 Watt, 3 Phase, 90 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX350).....	512.10	76.91
26 33 53 00-0065	EA			12 Volt, 415 Watt, 3 Phase, 100 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX400).....	537.25	76.91
26 33 53 00-0066	EA			12 Volt, 493 Watt, 3 Phase, 135 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX500).....	667.22	76.91
26 33 53 00-0067	EA			12 Volt, 540 Watt, 3 Phase, 150 Ampere Hours, Battery For Uninterruptible Power Supply Systems (Fiamm 12FLX540).....	698.67	76.91
26 33 53 00-0068				<b>Other Uninterruptable Power Supply Equipment</b> <small>(26 33 53)</small>		
26 33 53 00-0069	EA			Uninterrupted Power Supply Slim-Line Distribution Panel 42 Pole GE Plug-In.....	6,250.79	140.55
26 33 53 00-0070	EA			Uninterrupted Power Supply Slim-Line Distribution Panel 84 Pole GE Plug-In.....	7,561.16	281.10
26 33 53 00-0071	EA			1 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	35.39	8.44
26 33 53 00-0072	EA			2 Pole, 15 To 40 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	62.25	10.54
26 33 53 00-0073	EA			2 Pole, 50 To 80 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	113.71	10.54

**26 Electrical****26 30 Facility Electrical Power Generating and Storing Equipment****26 33 Battery Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 33 53 00-0074	EA	3 Pole, 15 To 60 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	166.03	14.06
26 33 53 00-0075	EA	3 Pole, 70 To 100 Amperes, GE Plug-In Breakers For UPS Distribution Panel.....	233.96	14.06
26 33 53 00-0076	EA	Uninterrupted Power Supply Remote Status Panel.....	4,295.20	140.55
26 33 53 00-0077	EA	Uninterrupted Power Supply Remote Contact Board.....	1,445.91	105.41

**26 35 Power Filters and Conditioners** (26 30)**26 35 33 Power Factor Correction Equipment** (26 35)**26 35 33 16 Low-Voltage Power Factor Correction Equipment** (26 35 33)**26 35 33 16-0001 Power Factor Correction Capacitors** (26 35 33 16)

26 35 33 16-0002	EA	Power Factor Correction Capacitors, 2.0 KVAC.....	735.45	
26 35 33 16-0003	EA	Power Factor Correction Capacitors, 3.0 KVAC.....	814.53	
26 35 33 16-0004	EA	Power Factor Correction Capacitors, 4.0 KVAC.....	893.61	
26 35 33 16-0005	EA	Power Factor Correction Capacitors, 5.0 KVAC.....	969.53	
26 35 33 16-0006	EA	Power Factor Correction Capacitors, 7.5 KVAC.....	1,190.95	
26 35 33 16-0007	EA	Power Factor Correction Capacitors, 10.0 KVAC.....	1,455.08	
26 35 33 16-0008	EA	Power Factor Correction Capacitors, 15.0 KVAC.....	2,247.47	
26 35 33 16-0009	EA	Power Factor Correction Capacitors, 20.0 KVAC.....	2,729.86	
26 35 33 16-0010	EA	Power Factor Correction Capacitors, 25.0 KVAC.....	3,526.99	
26 35 33 16-0011	EA	Power Factor Correction Capacitors, 30.0 KVAC.....	4,010.96	
26 35 33 16-0012	EA	Power Factor Correction Capacitors, 50.0 KVAC.....	7,038.17	
26 35 33 16-0013	EA	Power Factor Correction Capacitors, 75.0 KVAC.....	10,582.55	
26 35 33 16-0014	EA	Power Factor Correction Capacitors, 100.0 KVAC.....	14,111.13	
26 35 33 16-0015	EA	Power Factor Correction Capacitors, Fuse Kit.....	654.79	

**26 35 43 Static-Frequency Converters** (26 35)**26 35 43 00-0001 Rotary Phase Converter With NEMA 1 Indoor Enclosure** (26 35 43)

26 35 43 00-0002	EA	750 Watt Output Rotary Phase Converter With NEMA 1 Enclosure.....	773.27	153.82
26 35 43 00-0003	EA	2 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,324.95	184.58
26 35 43 00-0004	EA	3 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	1,522.12	246.12
26 35 43 00-0005	EA	5 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,082.97	307.65
26 35 43 00-0006	EA	7 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	2,859.57	399.94
26 35 43 00-0007	EA	11 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	3,685.50	492.23
26 35 43 00-0008	EA	15 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	4,610.10	584.52
26 35 43 00-0009	EA	21 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	5,602.59	661.43
26 35 43 00-0010	EA	29 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	6,520.81	799.88
26 35 43 00-0011	EA	36 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	7,460.79	899.86
26 35 43 00-0012	EA	44 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	8,400.77	999.84
26 35 43 00-0013	EA	55 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	10,419.43	1,207.50
26 35 43 00-0014	EA	74 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	13,501.71	1,453.62
26 35 43 00-0015	EA	87 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	17,092.40	1,768.95
26 35 43 00-0016	EA	110 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	19,567.00	2,068.90
26 35 43 00-0017	EA	125 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	25,075.94	2,307.32
26 35 43 00-0018	EA	165 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	38,024.74	2,614.96
26 35 43 00-0019	EA	220 KW Output Rotary Phase Converter With NEMA 1 Enclosure.....	56,400.28	2,922.61

**26 35 53 Voltage Regulators** (26 35)**26 35 53 00-0001 Voltage Regulators, 480/277 Or 208/120 Volt, 3 Phase** (26 35 53)

Note: For diesel motor generator sets mounted in switchgear cabinet.

26 35 53 00-0002	EA	50 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....	8,244.29	2,445.77
26 35 53 00-0003	EA	75 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....	9,517.03	3,076.43
26 35 53 00-0004	EA	100 KVA Volt Regulator For Diesel M-G 480/277 Or 208/120 Volt, 3 Phase In Switchgear.....	10,689.01	3,660.96

**26 36 Transfer Switches** (26 30)**26 36 13 Manual Transfer Switches** (26 36)**26 36 13 00-0001 Fused Manual Transfer Switches** (26 36 13)

26 36 13 00-0002	EA	30 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,484.83	269.19
26 36 13 00-0003	EA	60 Amperes, Manual Transfer Switch, Fused, 3 Pole, 480 Volt.....	1,739.24	334.40

**26 36 13 00-0004 Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure**(26 36 13)

26 36 13 00-0005	EA	40 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT40).....	3,819.85	393.04
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0006	EA	70 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT70).....	4,239.75	471.66
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0007	EA	125 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT125).....	4,815.46	550.26
		For NEMA 3R Enclosure, Add	1,193.86	
		For NEMA 12 Enclosure, Add	1,123.62	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Facility Electrical Power Generating and Storing Equipment</b>	<b>26 30</b>	
<b>Transfer Switches</b>	<b>26 36</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 13 00-0008 EA 150 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT150).....	5,967.66	628.87
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0009 EA 225 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT225).....	7,371.72	707.48
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0010 EA 260 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT260).....	8,286.10	786.09
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 12 Enclosure, Add	1,123.62	
26 36 13 00-0011 EA 300 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT300).....	9,214.63	864.70
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0012 EA 400 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT400).....	10,803.74	943.31
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0013 EA 600 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT600).....	14,274.38	1,179.13
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 13 00-0014 EA 800 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT800).....	16,077.49	1,414.96
For NEMA 3R Enclosure, Add	2,036.56	
For NEMA 12 Enclosure, Add	1,966.35	
26 36 13 00-0015 EA 1,000 Amperes, Non-Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OT1000).....	21,341.46	1,935.81
For NEMA 3R Enclosure, Add	2,036.56	
For NEMA 12 Enclosure, Add	1,966.35	

**26 36 23 Automatic Transfer Switches (26 36)**

26 36 23 00-0001 Automatic Transfer Switch (26 36 23)

26 36 23 00-0002 Automatic Transfer Switch, 2 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)

Note: Programmable, 120/240 volt single phase, 3 wire.

26 36 23 00-0003 EA 100 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	3,491.01	550.26
26 36 23 00-0004 EA 225 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	4,740.86	707.48
26 36 23 00-0005 EA 400 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	7,499.09	943.31
26 36 23 00-0006 EA 600 Amperes, Automatic Transfer Switch, 120/240 Volt, NEMA 1, 2 Pole Circuit Breaker, Programmable, 3 Wire.....	12,124.00	1,179.13

26 36 23 00-0007 Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)

26 36 23 00-0008 EA 40 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC40).....	5,656.07	393.04
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 4 Enclosure, Add	1,264.08	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0009 EA 70 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC70).....	6,533.08	471.66
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 4 Enclosure, Add	1,264.08	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0010 EA 125 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC125).....	7,187.34	550.26
For NEMA 3R Enclosure, Add	1,193.86	
For NEMA 4 Enclosure, Add	1,264.08	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0011 EA 150 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC150).....	8,545.95	628.87
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 4 Enclosure, Add	1,825.89	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0012 EA 225 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC225).....	9,756.49	707.48
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 4 Enclosure, Add	1,825.89	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0013 EA 260 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC260).....	10,767.44	786.09
For NEMA 3R Enclosure, Add	1,404.54	
For NEMA 4 Enclosure, Add	1,825.89	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0014 EA 300 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC300).....	11,258.16	864.70
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 4 Enclosure, Add	1,966.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0015 EA 400 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC400).....	12,726.23	943.31
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 4 Enclosure, Add	1,966.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0016 EA 600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC600).....	17,421.44	1,179.13
For NEMA 3R Enclosure, Add	1,657.35	
For NEMA 4 Enclosure, Add	1,966.35	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0017 EA 800 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC800).....	19,552.91	1,414.96
For NEMA 3R Enclosure, Add	2,036.56	
For NEMA 4 Enclosure, Add	2,247.26	
For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0018 EA 1,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1000).....	25,404.05	1,935.81
For NEMA 3R Enclosure, Add	2,036.56	
For NEMA 4 Enclosure, Add	2,247.26	
For NEMA 12 Enclosure, Add	1,966.35	

**26 Electrical****26 30 Facility Electrical Power Generating and Storing Equipment****26 36 Transfer Switches**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0019 EA 1,200 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1200).....	32,927.17	2,097.13
For NEMA 3R Enclosure, Add	4,494.50	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	2,106.80	
26 36 23 00-0020 EA 1,600 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC1600).....	35,124.11	2,419.76
For NEMA 3R Enclosure, Add	7,303.55	
For NEMA 4 Enclosure, Add	8,988.98	
For NEMA 12 Enclosure, Add	7,303.55	
26 36 23 00-0021 EA 2,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC2000).....	40,157.53	2,742.40
For NEMA 3R Enclosure, Add	7,303.55	
For NEMA 4 Enclosure, Add	8,988.98	
For NEMA 12 Enclosure, Add	7,303.55	
26 36 23 00-0022 EA 3,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC3000).....	48,508.00	3,387.67
For NEMA 3R Enclosure, Add	7,303.55	
26 36 23 00-0023 EA 4,000 Amperes, Automatic Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPC4000).....	84,002.88	4,032.94
For NEMA 3R Enclosure, Add	13,539.65	
<b>26 36 23 00-0024 Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)</b>		
26 36 23 00-0025 EA 150 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC150)....	28,297.12	2,987.14
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
26 36 23 00-0026 EA 225 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC225)....	29,541.49	3,144.36
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
26 36 23 00-0027 EA 260 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC260)....	30,968.56	3,301.58
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
26 36 23 00-0028 EA 300 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC300)....	34,536.51	3,380.19
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
26 36 23 00-0029 EA 400 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC400)....	39,820.09	3,458.80
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,334.32	
26 36 23 00-0030 EA 600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC600)....	47,763.65	3,616.02
For NEMA 3R Enclosure, Add	2,457.94	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0031 EA 800 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC800)....	52,635.77	3,773.23
For NEMA 3R Enclosure, Add	2,528.16	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,544.99	
26 36 23 00-0032 EA 1,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1000).....	66,106.44	4,402.10
For NEMA 3R Enclosure, Add	2,528.16	
For NEMA 4 Enclosure, Add	2,528.16	
For NEMA 12 Enclosure, Add	1,544.99	
26 36 23 00-0033 EA 1,200 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1200).....	86,391.41	4,839.53
For NEMA 3R Enclosure, Add	11,236.23	
For NEMA 4 Enclosure, Add	14,045.28	
For NEMA 12 Enclosure, Add	11,236.23	
26 36 23 00-0034 EA 1,600 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC1600).....	112,652.17	5,162.17
For NEMA 3R Enclosure, Add	23,876.97	
For NEMA 4 Enclosure, Add	23,876.97	
For NEMA 12 Enclosure, Add	22,247.72	
26 36 23 00-0035 EA 2,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC2000).....	127,901.58	5,646.12
For NEMA 3R Enclosure, Add	23,876.97	
For NEMA 4 Enclosure, Add	23,876.97	
For NEMA 12 Enclosure, Add	22,247.72	
26 36 23 00-0036 EA 3,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC3000).....	204,429.38	6,452.72
For NEMA 3R Enclosure, Add	29,495.07	
26 36 23 00-0037 EA 4,000 Amperes, Bypass Isolation Transfer Switch, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins BTPC4000).....	220,674.46	7,259.30
For NEMA 3R Enclosure, Add	29,495.07	
<b>26 36 23 00-0038 Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (26 36 23 00-0001)</b>		
26 36 23 00-0039 EA 40 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE40).....	9,199.73	393.04
For NEMA 3R Enclosure, Add	702.27	
For NEMA 12 Enclosure, Add	1,264.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 36 23 00-0040 EA 70 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE70).....	9,954.43	471.66
For NEMA 3R Enclosure, Add	702.27	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0041 EA 125 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE125).....	10,707.84	550.26
For NEMA 3R Enclosure, Add	702.27	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0042 EA 150 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE150).....	12,855.78	628.87
For Four Pole Circuit Breaker, Add	3,511.32	
For NEMA 3R Enclosure, Add	702.27	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0043 EA 225 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE225).....	16,726.64	707.48
For Four Pole Circuit Breaker, Add	3,511.32	
For NEMA 3R Enclosure, Add	702.27	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0044 EA 250 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE250).....	17,812.28	786.09
For Four Pole Circuit Breaker, Add	3,511.32	
For NEMA 3R Enclosure, Add	702.27	
For NEMA 12 Enclosure, Add	1,264.08	
26 36 23 00-0045 EA 300 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE300).....	18,529.64	864.70
For Four Pole Circuit Breaker, Add	4,775.40	
For NEMA 3R Enclosure, Add	1,825.89	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0046 EA 400 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE400).....	20,964.74	943.31
For Four Pole Circuit Breaker, Add	4,775.40	
For NEMA 3R Enclosure, Add	1,825.89	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0047 EA 600 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE600).....	25,442.34	1,179.13
For Four Pole Circuit Breaker, Add	4,775.40	
For NEMA 3R Enclosure, Add	1,825.89	
For NEMA 12 Enclosure, Add	1,404.54	
26 36 23 00-0048 EA 800 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE800).....	26,526.92	1,414.96
For Four Pole Circuit Breaker, Add	6,811.96	
For NEMA 3R Enclosure, Add	3,146.15	
For NEMA 12 Enclosure, Add	1,966.35	
26 36 23 00-0049 EA 1,000 Amperes, Automatic Transfer Switch/Service Entrance, 3 Pole Circuit Breaker, NEMA 1 Enclosure (Cummins OTPCSE1000).....	31,430.35	1,935.81
For Four Pole Circuit Breaker, Add	6,811.96	
For NEMA 3R Enclosure, Add	3,146.15	
For NEMA 12 Enclosure, Add	1,966.35	
<b>26 36 23 00-0050 Accessories</b> <small>(26 36 23)</small>		
26 36 23 00-0051 EA Auxiliary Contacts For Automatic Transfer Switch.....	325.86	
26 36 23 00-0052 EA Battery Charger For Automatic Transfer Switch.....	2,668.61	
26 36 23 00-0053 EA Elevator Relay Signal For Automatic Transfer Switch.....	969.13	

## 26 40 Electrical And Cathodic Protection (26)

### 26 43 Surge Protective Devices (26 40)

#### 26 43 13 Surge Protective Devices for Low-Voltage Electrical Power Circuits (26 43)

26 43 13 00-0001	25 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Liebert LPL		
26 43 13 00-0002 EA	120/240 Volt AC Single Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	249.51	38.46
26 43 13 00-0003 EA	208 Volt AC Three Phase, 3 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	267.02	38.46
26 43 13 00-0004 EA	240/120 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	282.40	46.15
26 43 13 00-0005 EA	277 Volt AC Single Phase, 2 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	229.12	30.76
26 43 13 00-0006 EA	480/277 Volt AC Three Phase, 4 Wire 25 kA Low Exposure Transient Voltage Surge Suppressor.....	282.40	46.15
26 43 13 00-0007	50 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Liebert LPL		
26 43 13 00-0008 EA	120/240 Volt AC Single Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	335.80	38.46
26 43 13 00-0009 EA	208/120 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	361.19	46.15
26 43 13 00-0010 EA	208 Volt AC Three Phase, 3 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	345.81	38.46
26 43 13 00-0011 EA	480/277 Volt AC Three Phase, 4 Wire 50 kA Low Exposure Transient Voltage Surge Suppressor.....	361.19	46.15
26 43 13 00-0012	100 kA Low Exposure (14 kAIC) Transient Voltage Surge Suppression <small>(26 43 13)</small>		
	Note: Liebert LPL		
26 43 13 00-0013 EA	120/240 Volt AC Single Phase, 3 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	400.84	38.46
26 43 13 00-0014 EA	208/120 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	426.23	46.15
26 43 13 00-0015 EA	277 Volt AC Single Phase, 2 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor.....	370.45	30.76

**26 Electrical**  
**26 40 Electrical And Cathodic Protection**  
**26 43 Surge Protective Devices**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0016 EA 480/277 Volt AC Three Phase, 4 Wire 100 kA Low Exposure Transient Voltage Surge Suppressor .....	426.23	46.15
<b>26 43 13 00-0017 100 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)</b> Note: Liebert LPM		
26 43 13 00-0018 EA 120/240 Volt AC Single Phase, 3 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor .....	468.38	38.46
26 43 13 00-0019 EA 208/120 Volt AC Three Phase, 4 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor .....	530.03	46.15
26 43 13 00-0020 EA 277 Volt AC Three Phase, 2 Wire 100 kA Medium Exposure Transient Voltage Surge Suppressor .....	439.24	30.76
<b>26 43 13 00-0021 160 kA Low Exposure (65 kAIC) Transient Voltage Surge Suppression (26 43 13)</b> Note: Liebert LPM		
26 43 13 00-0022 EA 208/120 Volt AC Single Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor .....	811.44	46.15
26 43 13 00-0023 EA 208 Volt AC Three Phase, 3 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor .....	796.06	38.46
26 43 13 00-0024 EA 480/277 Volt AC Three Phase, 4 Wire 160 kA Medium Exposure Transient Voltage Surge Suppressor .....	811.44	46.15
<b>26 43 13 00-0025 250 kA, 500 Joule Transient Voltage Surge Suppression (26 43 13)</b> Note: Liebert Interceptor Hybrid.		
26 43 13 00-0026 EA LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor .....	7,920.01	76.91
26 43 13 00-0027 EA Audible Alarm/LED Display, 120/208 Volt AC Three Phase, 250 kA Transient Voltage Surge Suppressor .....	9,680.89	76.91
<b>26 43 13 00-0028 Class 1310 Transient Voltage Surge Suppression (26 43 13)</b> Note: Supplied with audible alarm, alarm enable/disable switch and dry contacts. Square D.		
<b>26 43 13 00-0029 NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor (26 43 13 00-0028)</b> Note: Square D. EMA series.		
26 43 13 00-0030 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	3,781.41	199.97
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0031 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	4,177.62	230.73
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0032 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	6,057.43	269.19
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0033 EA 320 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	8,024.14	307.65
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0034 EA 480 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	11,851.74	423.01
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0035 EA 120 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	3,939.83	199.97
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0036 EA 160 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	4,351.66	230.73
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0037 EA 240 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	6,326.30	269.19
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0038 EA 320 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	8,373.33	307.65
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0039 EA 480 kA, 120/208 Volt, 1 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	12,390.60	423.01
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0040 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	3,939.83	199.97
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0041 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	4,351.66	230.73
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0042 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	6,326.23	269.19
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0043 EA 320 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	8,373.33	307.65
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0044 EA 480 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	12,390.60	423.01
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0045 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	4,098.29	199.97
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0046 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	4,527.93	230.73
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	
26 43 13 00-0047 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor .....	6,597.39	269.19
<i>For Integral Disconnect, Add</i>	265.68	
<i>For Surge Counter, Add</i>	203.04	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Electrical And Cathodic Protection</b>	<b>26 40</b>	
<b>Surge Protective Devices</b>	<b>26 43</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0048 EA 320 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	8,724.86 265.68 203.04	307.65
26 43 13 00-0049 EA 480 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,931.64 265.68 203.04	423.01
26 43 13 00-0050 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,282.37 265.68 203.04	199.97
26 43 13 00-0051 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,710.96 265.68 203.04	230.73
26 43 13 00-0052 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	6,880.76 265.68 203.04	269.19
26 43 13 00-0053 EA 320 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	9,093.01 265.68 203.04	307.65
26 43 13 00-0054 EA 480 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	12,732.46 265.68 203.04	423.01
<b>26 43 13 00-0055 NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor</b> <small>(26 43 13 00-0028)</small> <small>Note: Square D EBA series.</small>		
26 43 13 00-0056 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	2,978.21 265.68 203.04	199.97
26 43 13 00-0057 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,590.87 265.68 203.04	230.73
26 43 13 00-0058 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,216.26 265.68 203.04	269.19
26 43 13 00-0059 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,068.57 265.68 203.04	199.97
26 43 13 00-0060 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,724.74 265.68 203.04	230.73
26 43 13 00-0061 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,391.41 265.68 203.04	269.19
26 43 13 00-0062 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,068.57 265.68 203.04	199.97
26 43 13 00-0063 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,724.74 265.68 203.04	230.73
26 43 13 00-0064 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,391.41 265.68 203.04	269.19
26 43 13 00-0065 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,183.48 265.68 203.04	199.97
26 43 13 00-0066 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,868.66 265.68 203.04	230.73
26 43 13 00-0067 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,615.64 265.68 203.04	269.19
26 43 13 00-0068 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	3,303.98 265.68 203.04	199.97
26 43 13 00-0069 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,021.50 265.68 203.04	230.73
26 43 13 00-0070 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 1/3R/12 Non-Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,851.04 265.68 203.04	269.19
<b>26 43 13 00-0071 NEMA 4X Modular Device Transient Voltage Surge Suppressor</b> <small>(26 43 13 00-0028)</small> <small>Note: Square D EMA series. Stainless steel.</small>		
26 43 13 00-0072 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	4,835.67 265.68 203.04	199.97
26 43 13 00-0073 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	5,231.89 265.68 203.04	230.73
26 43 13 00-0074 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor..... <i>For Integral Disconnect, Add</i> <i>For Surge Counter, Add</i>	7,111.69 265.68 203.04	269.19

**26 Electrical**  
**26 40 Electrical And Cathodic Protection**  
**26 43 Surge Protective Devices**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 43 13 00-0075 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,994.10 265.68 203.04	199.97
26 43 13 00-0076 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,405.92 265.68 203.04	230.73
26 43 13 00-0077 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,380.57 265.68 203.04	269.19
26 43 13 00-0078 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,994.10 265.68 203.04	199.97
26 43 13 00-0079 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,405.92 265.68 203.04	230.73
26 43 13 00-0080 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,380.57 265.68 203.04	269.19
26 43 13 00-0081 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,152.56 265.68 203.04	199.97
26 43 13 00-0082 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,582.20 265.68 203.04	230.73
26 43 13 00-0083 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,651.66 265.68 203.04	269.19
26 43 13 00-0084 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,336.64 265.68 203.04	199.97
26 43 13 00-0085 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,765.22 265.68 203.04	230.73
26 43 13 00-0086 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	7,935.03 265.68 203.04	269.19
<b>26 43 13 00-0087 NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor</b> <small>(26 43 13 00-0028)</small> Note: Square D EBA series. Stainless steel.		
26 43 13 00-0088 EA 120 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,032.47 265.68 203.04	199.97
26 43 13 00-0089 EA 160 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,645.13 265.68 203.04	230.73
26 43 13 00-0090 EA 240 kA, 120/240 Volt, 1 Phase, 3 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,270.52 265.68 203.04	269.19
26 43 13 00-0091 EA 120 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,122.83 265.68 203.04	199.97
26 43 13 00-0092 EA 160 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,779.01 265.68 203.04	230.73
26 43 13 00-0093 EA 240 kA, 120/208 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,445.67 265.68 203.04	269.19
26 43 13 00-0094 EA 120 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,122.83 265.68 203.04	199.97
26 43 13 00-0095 EA 160 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,779.01 265.68 203.04	230.73
26 43 13 00-0096 EA 240 kA, 120/240 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,445.67 265.68 203.04	269.19
26 43 13 00-0097 EA 120 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,237.75 265.68 203.04	199.97
26 43 13 00-0098 EA 160 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,922.92 265.68 203.04	230.73
26 43 13 00-0099 EA 240 kA, 277/480 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,669.91 265.68 203.04	269.19
26 43 13 00-0100 EA 120 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	4,358.24 265.68 203.04	199.97
26 43 13 00-0101 EA 160 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	5,075.76 265.68 203.04	230.73
26 43 13 00-0102 EA 240 kA, 347/600 Volt, 3 Phase, 4 Wire NEMA 4X Non-Modular Device Transient Voltage Surge Suppressor <i>For Integral Disconnect, Add For Surge Counter, Add</i>	6,905.30 265.68 203.04	269.19



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Electrical And Cathodic Protection</b>	<b>26 40</b>	
<b>Surge Protective Devices</b>	<b>26 43</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**26 43 23 Surge Protective Devices for Lightning Protection (26 43)**

**26 43 23 00-0001 Surge And Lightning Arrestors (26 43 23)**

**26 43 23 00-0002 Metal Top Intermediate Type IMX (26 43 23 00-0001)**

Note: For outdoor construction, single phase.

26 43 23 00-0003	EA	3 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,354.56	334.87
26 43 23 00-0004	EA	4.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,461.09	334.87
26 43 23 00-0005	EA	6 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,461.09	334.87
26 43 23 00-0006	EA	7.5 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,658.93	334.87
26 43 23 00-0007	EA	9 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,658.93	334.87
26 43 23 00-0008	EA	10 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,823.29	334.87
26 43 23 00-0009	EA	12 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	1,823.29	334.87
26 43 23 00-0010	EA	15 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,477.69	418.58
26 43 23 00-0011	EA	18 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,562.92	418.58
26 43 23 00-0012	EA	21 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	2,827.19	502.30
26 43 23 00-0013	EA	24 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	3,046.34	502.30
26 43 23 00-0014	EA	27 KV, Lightning Arrestors, IMX, Metal Top For Outdoor Use, 1 Phase	3,597.24	502.30

**26 43 23 00-0015 Porcelain Top Intermediate Type IMX (26 43 23 00-0001)**

Note: For cubicle mounting, single phase.

26 43 23 00-0016	EA	3 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,354.56	334.87
26 43 23 00-0017	EA	4.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,461.09	334.87
26 43 23 00-0018	EA	6 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,461.09	334.87
26 43 23 00-0019	EA	7.5 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,658.93	334.87
26 43 23 00-0020	EA	9 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,658.93	334.87
26 43 23 00-0021	EA	10 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,823.29	334.87
26 43 23 00-0022	EA	12 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	1,823.29	334.87
26 43 23 00-0023	EA	15 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	2,477.69	418.58
26 43 23 00-0024	EA	18 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	2,562.92	418.58
26 43 23 00-0025	EA	21 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	2,827.19	502.30
26 43 23 00-0026	EA	24 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	3,046.34	502.30
26 43 23 00-0027	EA	27 KV, Lightning Arrestors, IMX, Porcelain Top For Cubicle Mounting, 1 Phase	3,597.24	502.30

**26 43 23 00-0028 IMX Accessories (26 43 23 00-0001)**

26 43 23 00-0029	EA	1 Crossarm Bracket Reversible 3-27 KV IMX	1,135.42	334.87
26 43 23 00-0030	EA	Single Unit Horizontal Pole Mounted Bracket (IMX)	1,123.25	334.87
26 43 23 00-0031	EA	3 Unit Horizontal Pole Mounted Bracket (IMX)	1,032.06	334.87

**26 43 23 00-0032 Lightning Arrestor And Cutouts (26 43 23 00-0001)**

26 43 23 00-0033	EA	3 KV La Distribution Class, Lightning Arrestor	794.53	334.87
26 43 23 00-0034	EA	3 KV La Interior Class, Lightning Arrestor	1,435.65	334.87
26 43 23 00-0035	EA	3 KV La Station Class, Lightning Arrestor	1,354.56	334.87
26 43 23 00-0036	EA	9 KV La Distribution Class, Lightning Arrestor	861.49	334.87
26 43 23 00-0037	EA	9 KV La Interior Class, Lightning Arrestor	1,613.15	334.87
26 43 23 00-0038	EA	9 KV La Station Class, Lightning Arrestor	1,658.93	334.87
26 43 23 00-0039	EA	5 KV Enclosed Fused Cutout	965.58	334.87
26 43 23 00-0040	EA	15 KV Open Fused Cutout	1,059.35	418.58
26 43 23 00-0041	EA	18 KV La Distribution Class, Lightning Arrestor	826.27	334.87
26 43 23 00-0042	EA	18 KV La Interior Class, Lightning Arrestor	1,708.03	334.87

**26 50 Lighting (26)**

Note: Includes testing of fixture, a set of lamps (light bulbs), wire nuts, ground wire connector, fixture whip, ballast(s), mounting brackets where necessary and cable connectors. Lay-in fixtures include support wire, clips and seismic supports.

**26 51 Interior Lighting (26 50)**

**26 51 13 Incandescent Interior Lighting (26 51)**

**26 51 13 00-0001 Recessed Fixtures (26 51 13)**

**26 51 13 00-0002 Incandescent, Recessed Fixture Housings (26 51 13 00-0001)**

Note: Housing and trim priced separately.

26 51 13 00-0003	EA	4" Round, Incandescent, T Or ICT Recessed Fixture Housing	99.41	44.00
		<i>For ICAT Housing, Add</i>	4.29	
26 51 13 00-0004	EA	5" Round, Incandescent, T Or ICT Recessed Fixture Housing	99.41	44.00
		<i>For ICAT Housing, Add</i>	4.29	
26 51 13 00-0005	EA	6" Round, Incandescent, T Or ICT Recessed Fixture Housing	105.36	46.15
		<i>For ICAT Housing, Add</i>	4.66	
26 51 13 00-0006	EA	7" Round, Incandescent, T Or ICT Recessed Fixture Housing	111.48	48.14
		<i>For ICAT Housing, Add</i>	5.05	
26 51 13 00-0007	EA	8" Round, Incandescent, T Or ICT Recessed Fixture Housing	117.63	50.15
		<i>For ICAT Housing, Add</i>	5.45	
26 51 13 00-0008	EA	10" To 12" Square, Incandescent, T Or ICT Recessed Fixture Housing	120.48	53.22
		<i>For ICAT Housing, Add</i>	5.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 51 13 00-0009</b> <b>Recessed Fixture Trim</b> <small>(26 51 13 00-0001)</small>		
26 51 13 00-0010 EA Circular, Recessed Fixture Trim .....	73.47	21.54
26 51 13 00-0011 EA Circular Clear Lens, Recessed Fixture Trim .....	81.01	21.54
26 51 13 00-0012 EA Open/Baffle, Recessed Fixture Trim .....	94.07	21.54
26 51 13 00-0013 EA Specular Reflector, Recessed Fixture Trim .....	101.00	21.54
26 51 13 00-0014 EA Eyeball, Recessed Fixture Trim .....	81.12	21.54
26 51 13 00-0015 EA 10" To 12" Square, Clear Lens, Recessed Fixture Trim .....	77.07	21.54
26 51 13 00-0016 EA 10" To 12" Square, Drop Dish, Recessed Fixture Trim.....	81.71	21.54
<b>26 51 13 00-0017</b> <b>Track Lighting</b> <small>(26 51 13)</small>		
<b>26 51 13 00-0018</b> <b>Track Lighting Tracks</b> <small>(26 51 13 00-0017)</small>		
26 51 13 00-0019 LF 1 Circuit Track Lighting Track .....	26.98	10.15
26 51 13 00-0020 LF 2 Circuit Track Lighting Track .....	34.29	10.15
26 51 13 00-0021 LF 3 Circuit Track Lighting Track .....	40.58	10.15
26 51 13 00-0022 LF 4 Circuit Track Lighting Track .....	46.89	12.30
<b>26 51 13 00-0023</b> <b>Incandescent Track Lighting Fixtures</b> <small>(26 51 13 00-0017)</small>		
26 51 13 00-0024 EA Incandescent Track Lighting Fixture, 120 Volt.....	94.41	25.68
26 51 13 00-0025 EA Par 20 Track Fixture, White Or Black Finish, 120 Volt.....	67.06	25.68
26 51 13 00-0026 EA Par 30 Track Fixture, White Or Black Finish, 120 Volt.....	89.15	25.68
26 51 13 00-0027 EA Par 38 Track Fixture, White Or Black Finish, 120 Volt.....	91.34	25.68
26 51 13 00-0028 EA PAR 16, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	77.06	25.68
26 51 13 00-0029 EA PAR 20, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	67.06	25.68
26 51 13 00-0030 EA PAR 30, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	76.01	25.68
Note: 120V.		
26 51 13 00-0031 EA PAR 38, Baffled Cylinder Track Fixture, White or Black Finish, 120 Volt.....	93.53	25.68
<b>26 51 13 00-0032</b> <b>Track Lighting Accessories</b> <small>(26 51 13 00-0017)</small>		
<b>26 51 13 00-0033</b> <b>Pendant Mounting</b> <small>(26 51 13 00-0032)</small>		
26 51 13 00-0034 EA Track Lighting Pendant Mounting, Up to 12" .....	31.72	
26 51 13 00-0035 EA Track Lighting Pendant Mounting, >12" To 24".....	39.71	
26 51 13 00-0036 EA Track Lighting Pendant Mounting, >24" To 36".....	48.07	
<b>26 51 13 00-0037</b> <b>Wet Location, Dust Resistant, Vapor Tight Fixtures</b> <small>(26 51 13)</small>		
<b>26 51 13 00-0038</b> <b>Incandescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures</b> <small>(26 51 13 00-0037)</small>		
26 51 13 00-0039 EA 100 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	150.15	61.53
For Wall Mounted, Add	5.10	
26 51 13 00-0040 EA 200 Watt Incandescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture.....	168.41	61.53
For Wall Mounted, Add	5.10	
<b>26 51 16</b> <b>Fluorescent Interior Lighting</b> <small>(26 51)</small>		
<b>26 51 16 00-0001</b> <b>Fluorescent Fixtures</b> <small>(26 51 16)</small>		
<b>26 51 16 00-0002</b> <b>Surface Mounted, Wraparound Fluorescent Fixtures</b> <small>(26 51 16 00-0001)</small>		
<b>26 51 16 00-0003</b> <b>6" x 2', Surface Mounted, Wraparound Fluorescent Fixtures</b> <small>(26 51 16 00-0002)</small>		
26 51 16 00-0004 EA 1 T8 Lamp, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture.....	204.92	43.99
26 51 16 00-0005 EA 2 T8 Lamps, 6" x 2', Surface Mounted, Wraparound Fluorescent Fixture.....	228.91	43.99
<b>26 51 16 00-0006</b> <b>6" x 4', Surface Mounted, Wraparound Fluorescent Fixtures</b> <small>(26 51 16 00-0002)</small>		
26 51 16 00-0007 EA 1 T8 Lamp, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture.....	230.55	45.82
26 51 16 00-0008 EA 2 T8 Lamps, 6" x 4', Surface Mounted, Wraparound Fluorescent Fixture.....	256.79	45.82
<b>26 51 16 00-0009</b> <b>1' x 4', Surface Mounted, Wraparound Fluorescent Fixtures</b> <small>(26 51 16 00-0002)</small>		
26 51 16 00-0010 EA 2 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....	274.33	51.44
26 51 16 00-0011 EA 3 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....	323.24	51.44
26 51 16 00-0012 EA 4 T8 Lamps, 1' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....	377.08	51.44
<b>26 51 16 00-0013</b> <b>2' x 2', Surface Mounted, Wraparound Fluorescent Fixtures</b> <small>(26 51 16 00-0002)</small>		
26 51 16 00-0014 EA 2 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture .....	226.83	56.22
26 51 16 00-0015 EA 3 T8 Lamps, 2' x 2', Surface Mounted, Wraparound Fluorescent Fixture .....	260.24	56.22
<b>26 51 16 00-0016</b> <b>2' x 4', Surface Mounted, Wraparound Fluorescent Fixtures</b> <small>(26 51 16 00-0002)</small>		
26 51 16 00-0017 EA 2 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....	351.03	65.50
26 51 16 00-0018 EA 3 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....	376.61	65.50
26 51 16 00-0019 EA 4 T8 Lamps, 2' x 4', Surface Mounted, Wraparound Fluorescent Fixture .....	425.45	65.50



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0020 Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0001)</small> Note: Includes prismatic lens.		
26 51 16 00-0021 1' x 4', Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0020)</small>		
26 51 16 00-0022 EA 2 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	272.85	51.02
26 51 16 00-0023 EA 3 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	436.38	51.02
26 51 16 00-0024 EA 4 T8 Lamps, 1' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	496.08	51.02
26 51 16 00-0025 2' x 2', Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0020)</small>		
26 51 16 00-0026 EA 2 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....	421.42	56.22
26 51 16 00-0027 EA 3 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....	459.07	56.22
26 51 16 00-0028 EA 4 T8 Lamps, 2' x 2', Surface Mounted, Box Type Fluorescent Fixture.....	486.20	56.22
26 51 16 00-0029 2' x 4', Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0020)</small>		
26 51 16 00-0030 EA 2 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	429.34	65.50
26 51 16 00-0031 EA 3 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	469.45	65.50
26 51 16 00-0032 EA 4 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	491.48	65.50
26 51 16 00-0033 EA 6 T8 Lamps, 2' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	524.93	65.50
26 51 16 00-0034 4' x 4', Surface Mounted, Box Type Fluorescent Fixtures <small>(26 51 16 00-0020)</small>		
26 51 16 00-0035 EA 4 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	841.43	84.33
26 51 16 00-0036 EA 6 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	854.69	84.33
26 51 16 00-0037 EA 8 T8 Lamps, 4' x 4', Surface Mounted, Box Type Fluorescent Fixture.....	636.52	84.33
26 51 16 00-0038 Recessed Fluorescent Fixtures <small>(26 51 16 00-0001)</small>		
26 51 16 00-0039 Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
26 51 16 00-0040 1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture <small>(26 51 16 00-0039)</small>		
26 51 16 00-0041 EA 2 T8 Lamps, 1' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	377.59	43.99
<i>For Drywall Or Plaster Ceilings, Add</i>	29.73	
26 51 16 00-0042 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture <small>(26 51 16 00-0039)</small>		
26 51 16 00-0043 EA 2 T8 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	497.30	51.02
<i>For Drywall Or Plaster Ceilings, Add</i>	34.79	
26 51 16 00-0044 EA 2 T5 Lamps, 1' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	918.41	51.02
<i>For Drywall Or Plaster Ceilings, Add</i>	34.79	
26 51 16 00-0045 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture <small>(26 51 16 00-0039)</small>		
26 51 16 00-0046 EA 2 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	504.23	56.22
<i>For Drywall Or Plaster Ceilings, Add</i>	37.95	
26 51 16 00-0047 EA 3 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	578.67	56.22
<i>For Drywall Or Plaster Ceilings, Add</i>	37.95	
26 51 16 00-0048 EA 4 T8 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	584.37	56.22
<i>For Drywall Or Plaster Ceilings, Add</i>	37.96	
26 51 16 00-0049 EA 2 T5 Lamps, 2' x 2', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	629.59	56.22
<i>For Drywall Or Plaster Ceilings, Add</i>	37.95	
26 51 16 00-0050 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture <small>(26 51 16 00-0039)</small>		
26 51 16 00-0051 EA 2 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	485.32	65.50
<i>For Drywall Or Plaster Ceilings, Add</i>	44.28	
26 51 16 00-0052 EA 3 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	683.05	65.50
<i>For Drywall Or Plaster Ceilings, Add</i>	44.28	
26 51 16 00-0053 EA 4 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	689.68	65.50
<i>For Drywall Or Plaster Ceilings, Add</i>	44.28	
26 51 16 00-0054 EA 6 T8 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	769.09	65.50
<i>For Drywall Or Plaster Ceilings, Add</i>	44.28	
26 51 16 00-0055 EA 2 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	657.69	65.50
<i>For Drywall Or Plaster Ceilings, Add</i>	44.28	
26 51 16 00-0056 EA 3 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	906.38	65.50
<i>For Drywall Or Plaster Ceilings, Add</i>	44.28	
26 51 16 00-0057 EA 4 T5 Lamps, 2' x 4', Prismatic Lensed, Lay-In/Troffer Fluorescent Fixture .....	922.19	65.50
<i>For Drywall Or Plaster Ceilings, Add</i>	44.28	
26 51 16 00-0058 Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
26 51 16 00-0059 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0058)</small>		
26 51 16 00-0060 EA 1 T8 Lamp, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture.....	445.41	43.99
<i>For Drywall Or Plaster Ceilings, Add</i>	29.73	
26 51 16 00-0061 EA 2 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture .....	451.09	43.99
<i>For Drywall Or Plaster Ceilings, Add</i>	29.73	

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 51</b>	<b>Interior Lighting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0062 EA 3 T8 Lamps, 1' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	530.27 29.73	43.99
<b>26 51 16 00-0063 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures</b> (26 51 16 00-0058)		
26 51 16 00-0064 EA 1 T8 Lamp, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	507.47 34.79	51.02
26 51 16 00-0065 EA 2 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	514.10 34.79	51.02
26 51 16 00-0066 EA 3 T8 Lamps, 1' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	581.11 34.79	51.02
<b>26 51 16 00-0067 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures</b> (26 51 16 00-0058)		
26 51 16 00-0068 EA 2 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	520.20 37.96	56.22
26 51 16 00-0069 EA 3 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	525.88 37.96	56.22
26 51 16 00-0070 EA 4 T8 Lamps, 2' x 2', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	603.85 37.96	56.22
<b>26 51 16 00-0071 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixtures</b> (26 51 16 00-0058)		
26 51 16 00-0072 EA 2 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	485.32 44.28	65.50
26 51 16 00-0073 EA 3 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	569.42 44.28	65.50
26 51 16 00-0074 EA 4 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	649.26 44.28	65.50
26 51 16 00-0075 EA 6 T8 Lamps, 2' x 4', Parabolic, Lay-In/Troffer, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	736.02 44.28	65.50
<b>26 51 16 00-0076 Direct-Indirect, Recessed Fluorescent Fixtures</b> (26 51 16 00-0038)		
<b>26 51 16 00-0077 1' x 4', Direct-Indirect, Recessed Fluorescent Fixtures</b> (26 51 16 00-0076)		
26 51 16 00-0078 EA 1 T8 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	968.41 34.79	51.02
26 51 16 00-0079 EA 2 T8 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	975.04 34.79	51.02
26 51 16 00-0080 EA 1 T5 Lamp, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,151.41 34.79	51.02
26 51 16 00-0081 EA 2 T5 Lamps, 1' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,167.22 34.79	51.02
<b>26 51 16 00-0082 2' x 2', Direct-Indirect, Recessed Fluorescent Fixtures</b> (26 51 16 00-0076)		
26 51 16 00-0083 EA 2 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	763.35 37.95	56.22
26 51 16 00-0084 EA 3 T8 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	852.56 37.95	56.22
26 51 16 00-0085 EA 2 T5 Lamps, 2' x 2', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,045.91 37.95	56.22
<b>26 51 16 00-0086 2' x 4', Direct-Indirect, Recessed Fluorescent Fixtures</b> (26 51 16 00-0076)		
26 51 16 00-0087 EA 2 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	856.48 44.28	65.50
26 51 16 00-0088 EA 3 T8 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,061.56 44.28	65.50
26 51 16 00-0089 EA 1 T5 Lamp, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,130.97 44.28	65.50
26 51 16 00-0090 EA 2 T5 Lamps, 2' x 4', Direct-Indirect, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,241.78 44.28	65.50
<b>26 51 16 00-0091 Volumetric, Recessed Fluorescent Fixtures</b> (26 51 16 00-0038)		
<b>26 51 16 00-0092 1' x 4', Volumetric, Recessed Fluorescent Fixtures</b> (26 51 16 00-0091)		
26 51 16 00-0093 EA 2 T8 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	753.53 34.79	51.02
26 51 16 00-0094 EA 2 T5 Lamps, 1' x 4', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	1,003.23 34.79	51.02
<b>26 51 16 00-0095 2' x 2', Volumetric, Recessed Fluorescent Fixtures</b> (26 51 16 00-0091)		
26 51 16 00-0096 EA 2 T8 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	750.59 37.95	56.22
26 51 16 00-0097 EA 2 T5 Lamps, 2' x 2', Volumetric, Recessed Fluorescent Fixture <i>For Drywall Or Plaster Ceilings, Add</i>	862.23 37.95	56.22



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 51 16 00-0098</b> 2' x 4', Volumetric, Recessed Fluorescent Fixtures <small>(26 51 16 00-0091)</small>		
26 51 16 00-0099 EA 2 T8 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	833.64 44.28	65.50
26 51 16 00-0100 EA 2 T5 Lamps, 2' x 4', Volumetric, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	835.50 44.28	65.50
<b>26 51 16 00-0101</b> Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
<b>26 51 16 00-0102</b> 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0101)</small>		
26 51 16 00-0103 EA 2 T8 Lamps, 1' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	697.66 34.79	51.02
<b>26 51 16 00-0104</b> 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0101)</small>		
26 51 16 00-0105 EA 2 T8 Lamps, 2' x 2', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	667.62 37.95	56.22
<b>26 51 16 00-0106</b> 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0101)</small>		
26 51 16 00-0107 EA 2 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	809.26 44.28	65.50
26 51 16 00-0108 EA 3 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	631.57 44.28	65.50
26 51 16 00-0109 EA 4 T8 Lamps, 2' x 4', Wet Location, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	928.81 44.28	65.50
<b>26 51 16 00-0110</b> Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0038)</small>		
<b>26 51 16 00-0111</b> 1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0110)</small>		
26 51 16 00-0112 EA 2 T8 Lamps, 1' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	663.74 34.79	51.02
<b>26 51 16 00-0113</b> 2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0110)</small>		
26 51 16 00-0114 EA 2 T8 Lamps, 2' x 2', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	666.81 37.95	56.22
<b>26 51 16 00-0115</b> 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixtures <small>(26 51 16 00-0110)</small>		
26 51 16 00-0116 EA 2 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	828.30 44.28	65.50
26 51 16 00-0117 EA 3 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	841.55 44.28	65.50
26 51 16 00-0118 EA 4 T8 Lamps, 2' x 4', Vandal Resistant, Lensed, Lay-In/Troffer, Recessed Fluorescent Fixture ..... <i>For Drywall Or Plaster Ceilings, Add</i>	862.22 44.28	65.50
<b>26 51 16 00-0119</b> Striplight Fluorescent Fixtures <small>(26 51 16 00-0001)</small>		
<b>26 51 16 00-0120</b> 1 Lamp Cross Section, Striplight Fluorescent Fixtures <small>(26 51 16 00-0119)</small>		
26 51 16 00-0121 EA 1-1/2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture .....	278.26	42.16
26 51 16 00-0122 EA 2' Length, 1 T8 Lamp, Striplight Fluorescent Fixture .....	343.37	42.16
26 51 16 00-0123 EA 3' Length, 1 T8 Lamp, Striplight Fluorescent Fixture .....	336.77	46.80
26 51 16 00-0124 EA 4' Length, 1 T8 Lamp, Striplight Fluorescent Fixture .....	343.68	51.44
26 51 16 00-0125 EA 8' Length, 1 T8 Lamp, Striplight Fluorescent Fixture .....	420.12	60.93
<b>26 51 16 00-0126</b> 2 Lamp Cross Section, Striplight Fluorescent Fixtures <small>(26 51 16 00-0119)</small>		
26 51 16 00-0127 EA 2' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	341.38	46.80
26 51 16 00-0128 EA 3' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	350.57	51.44
26 51 16 00-0129 EA 4' Length, 2 T8 Lamps, Striplight Fluorescent Fixture.....	357.34	56.22
<b>26 51 16 00-0130</b> 3 Lamp Cross Section, Striplight Fluorescent Fixtures <small>(26 51 16 00-0119)</small>		
26 51 16 00-0131 EA 2' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	505.08	46.80
26 51 16 00-0132 EA 3' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	485.95	51.44
26 51 16 00-0133 EA 4' Length, 3 T8 Lamps, Striplight Fluorescent Fixture.....	492.61	56.22
<b>26 51 16 00-0134</b> Display Case Fluorescent Fixtures <small>(26 51 16 00-0119)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0135 EA 1 T8 Lamp, 1-1/2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU15W).....	191.31	46.15
26 51 16 00-0136 EA 1 T8 Lamp, 2' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU20W).....	254.71	46.15
26 51 16 00-0137 EA 1 T8 Lamp, 3' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU30W).....	275.32	53.83
26 51 16 00-0138 EA 1 T8 Lamp, 4' Length, Undercabinet/Display Case Fluorescent Fixture (Lightolier TCU40W).....	284.23	53.83
<b>26 51 16 00-0139 Industrial Fluorescent Fixtures (26 51 16 00-0001)</b>		
<b>26 51 16 00-0140 1 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)</b>		
26 51 16 00-0141 EA 2' Length, 1 T8 Lamp, Industrial Fluorescent Fixture .....	405.85	42.16
26 51 16 00-0142 EA 4' Length, 1 T8 Lamp, Industrial Fluorescent Fixture .....	428.01	51.44
26 51 16 00-0143 EA 8' Length, 1 T8 Lamp, Industrial Fluorescent Fixture .....	794.01	65.50
<b>26 51 16 00-0144 2 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)</b>		
26 51 16 00-0145 EA 2' Length, 2 T8 Lamps, Industrial Fluorescent Fixture .....	418.55	46.80
26 51 16 00-0146 EA 4' Length, 2 T8 Lamps, Industrial Fluorescent Fixture .....	441.70	56.22
26 51 16 00-0147 EA 8' Length, 2 T8 Lamps, Industrial Fluorescent Fixture .....	807.28	65.50
<b>26 51 16 00-0148 3 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)</b>		
26 51 16 00-0149 EA 2' Length, 3 T8 Lamps, Industrial Fluorescent Fixture .....	435.25	46.80
26 51 16 00-0150 EA 4' Length, 3 T8 Lamps, Industrial Fluorescent Fixture .....	456.60	56.22
26 51 16 00-0151 EA 8' Length, 3 T8 Lamps, Industrial Fluorescent Fixture .....	695.60	65.50
<b>26 51 16 00-0152 4 Lamp Cross Section, Industrial Fluorescent Fixtures (26 51 16 00-0139)</b>		
26 51 16 00-0153 EA 4' Length, 4 T8 Lamps, Industrial Fluorescent Fixture .....	631.91	56.22
26 51 16 00-0154 EA 8' Length, 4 T8 Lamps, Industrial Fluorescent Fixture .....	929.35	65.50
<b>26 51 16 00-0155 Flanged Fluorescent Fixture (26 51 16 00-0001)</b>		
Note: For plaster or drywall application. With electronic ballast.		
26 51 16 00-0156 EA 2 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture .....	594.27	84.33
26 51 16 00-0157 EA 3 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture .....	711.15	84.33
26 51 16 00-0158 EA 4 T8 Lamps, 2' x 4', Prismatic Lensed, Flanged Fluorescent Fixture .....	717.78	84.33
<b>26 51 16 00-0159 Undercabinet Fluorescent Fixtures (26 51 16 00-0001)</b>		
26 51 16 00-0160 EA 1 T5 Lamp, 12-3/16" Length, Slimline Undercabinet Fluorescent Fixture .....	216.13	37.95
26 51 16 00-0161 EA 1 T5 Lamp, 21-3/16" Length, Slimline Undercabinet Fluorescent Fixture .....	251.34	46.38
26 51 16 00-0162 EA 2 T5 Lamps, 24-7/16" Length, Slimline Undercabinet Fluorescent Fixture .....	247.15	46.38
26 51 16 00-0163 EA 1 T5 Lamp, 33-7/16" Length, Slimline Undercabinet Fluorescent Fixture .....	299.38	50.60
26 51 16 00-0164 EA 2 T5 Lamps, 42-7/16" Length, Slimline Undercabinet Fluorescent Fixture .....	348.03	59.03
<b>26 51 16 00-0165 Corner Mounted, Fluorescent Fixtures (26 51 16 00-0001)</b>		
Note: Includes acrylic drop dish diffuser.		
<b>26 51 16 00-0166 2' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)</b>		
26 51 16 00-0167 EA 1 T8 Lamp, 2' Length, Corner Mounted, Fluorescent Fixture .....	271.23	42.16
26 51 16 00-0168 EA 2 T8 Lamps, 2' Length, Corner Mounted, Fluorescent Fixture .....	301.21	42.16
<b>26 51 16 00-0169 3' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)</b>		
26 51 16 00-0170 EA 1 T8 Lamp, 3' Length, Corner Mounted, Fluorescent Fixture .....	308.56	44.27
26 51 16 00-0171 EA 2 T8 Lamps, 3' Length, Corner Mounted, Fluorescent Fixture .....	337.17	44.27
<b>26 51 16 00-0172 4' Length, Corner Mounted, Fluorescent Fixtures (26 51 16 00-0165)</b>		
26 51 16 00-0173 EA 1 T8 Lamp, 4' Length, Corner Mounted, Fluorescent Fixture .....	304.76	46.38
26 51 16 00-0174 EA 2 T8 Lamps, 4' Length, Corner Mounted, Fluorescent Fixture .....	334.36	46.38
<b>26 51 16 00-0175 Wall Bracket, Fluorescent Fixtures (26 51 16 00-0001)</b>		
<b>26 51 16 00-0176 Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0175)</b>		
Note: Includes extruded aluminum housing with brushed finish, acrylic diffuser and solid-state electronic ballast.		
<b>26 51 16 00-0177 2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)</b>		
26 51 16 00-0178 EA 1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W) .....	266.82	70.75
26 51 16 00-0179 EA 2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia W) .....	271.66	70.75
<b>26 51 16 00-0180 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)</b>		
26 51 16 00-0181 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W) .....	341.13	70.75
26 51 16 00-0182 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia W) .....	347.90	70.75
<b>26 51 16 00-0183 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia W) (26 51 16 00-0176)</b>		





<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0184 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	352.64	70.75
26 51 16 00-0185 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia W).....	357.48	70.75
<b>26 51 16 00-0186 Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0175)</b> Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
<b>26 51 16 00-0187 2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0186)</b>		
26 51 16 00-0188 EA 1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	688.21	70.75
26 51 16 00-0189 EA 2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	693.06	70.75
<b>26 51 16 00-0190 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0186)</b>		
26 51 16 00-0191 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	542.77	70.75
26 51 16 00-0192 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	549.53	70.75
<b>26 51 16 00-0193 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WP) (26 51 16 00-0186)</b>		
26 51 16 00-0194 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	625.19	70.75
26 51 16 00-0195 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WP).....	630.03	70.75
<b>26 51 16 00-0196 Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0175)</b> Note: Includes 20 gauge steel housing with baked finish, acrylic diffuser and solid-state electronic ballast.		
<b>26 51 16 00-0197 2' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0196)</b>		
26 51 16 00-0198 EA 1 T8 Lamp, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	256.16	70.75
26 51 16 00-0199 EA 2 T8 Lamps, 2' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	261.00	70.75
<b>26 51 16 00-0200 3' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0196)</b>		
26 51 16 00-0201 EA 1 T8 Lamp, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	258.08	70.75
26 51 16 00-0202 EA 2 T8 Lamps, 3' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	264.84	70.75
<b>26 51 16 00-0203 4' Length, Wall Bracket, Fluorescent Fixtures (Lithonia WC) (26 51 16 00-0196)</b>		
26 51 16 00-0204 EA 1 T8 Lamp, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	247.99	70.75
26 51 16 00-0205 EA 2 T8 Lamps, 4' Length, Wall Bracket, Fluorescent Fixture (Lithonia WC).....	252.83	70.75
<b>26 51 16 00-0206 Low Occupancy, Industrial Fluorescent Fixtures (26 51 16 00-0001)</b>		
26 51 16 00-0207 EA 1 T8 Lamp, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP).....	299.42	51.44
26 51 16 00-0208 EA 2 T8 Lamps, 4' Length, Bi-Level Illumination, Industrial Fluorescent Fixture With Integral Occupancy Sensor (Deco SMART™ DSBL-CP).....	306.45	56.22
<b>26 51 16 00-0209 Ceiling Mounted Fluorescent Fixtures (26 51 16)</b>		
<b>26 51 16 00-0210 Ceiling Mounted, Compact Fluorescent/Incandescent Fixtures (26 51 16 00-0209)</b>		
<b>26 51 16 00-0211 Glass Globe, Compact Fluorescent/Incandescent Fixtures (26 51 16 00-0210)</b>		
26 51 16 00-0212 EA 6" Diameter, Ceiling Mounted, Glass Globe, Compact Fluorescent/Incandescent Fixture.....	229.29	61.53
26 51 16 00-0213 EA 9" Diameter, Ceiling Mounted, Mushroom Style Glass Globe, Compact Fluorescent/Incandescent Fixture.....	276.15	61.53
<b>26 51 16 00-0214 Ceiling Mounted, Circline Fluorescent Fixtures (26 51 16 00-0209)</b>		
<b>26 51 16 00-0215 Exposed Lamps, Circline Fluorescent Fixtures (26 51 16 00-0214)</b>		
26 51 16 00-0216 EA 8-1/2" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture.....	187.91	61.53
26 51 16 00-0217 EA 12" Diameter, Ceiling Mounted, Exposed Lamps, Circline Fluorescent Fixture.....	205.52	61.53
<b>26 51 16 00-0218 Low Profile Acrylic Diffuser, Circline Fluorescent Fixtures (26 51 16 00-0214)</b>		
26 51 16 00-0219 EA 11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	291.40	61.53
26 51 16 00-0220 EA 14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	420.38	61.53
26 51 16 00-0221 EA 19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	509.76	61.53
26 51 16 00-0222 EA 12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	333.18	61.53
26 51 16 00-0223 EA 15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	423.03	61.53
26 51 16 00-0224 EA 19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Circline Fluorescent Fixture.....	509.76	61.53
<b>26 51 16 00-0225 Ceiling Mounted, Double Twin Tube Compact Fluorescent Fixtures (26 51 16 00-0209)</b>		
<b>26 51 16 00-0226 Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixtures (26 51 16 00-0225)</b>		
26 51 16 00-0227 EA 11" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	295.66	61.53
26 51 16 00-0228 EA 14" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	389.70	61.53
26 51 16 00-0229 EA 19" Diameter, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	470.00	61.53
26 51 16 00-0230 EA 12" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	235.21	61.53
26 51 16 00-0231 EA 15" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	284.41	61.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0232 EA 19" Square, Ceiling Mounted, Low Profile Acrylic Diffuser, Double Twin Tube Compact Fluorescent Fixture.....	377.65	61.53
<b>26 51 16 00-0233 Pendant Mounted, Compact Fluorescent/Incandescent Downlights (26 51 16 00-0209)</b>		
<b>26 51 16 00-0234 Pendant Mounted, Compact Fluorescent/Incandescent Open Reflector Downlights (26 51 16 00-0233)</b>		
26 51 16 00-0235 EA 6" Diameter, Pendant Mounted, Open Reflector Compact Fluorescent/Incandescent Downlight.....	476.26	50.55
<b>26 51 16 00-0236 Pendant Mounted, Compact Fluorescent/Incandescent Downlights With Baffle (26 51 16 00-0233)</b>		
26 51 16 00-0237 EA 6" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....	547.59	50.55
26 51 16 00-0238 EA 8" Diameter, Pendant Mounted, Compact Fluorescent/Incandescent Downlight With Baffle.....	777.71	50.55
<b>26 51 16 00-0239 Pendant Mounted, Horizontal Indirect Fluorescent Fixtures (26 51 16 00-0209)</b>		
26 51 16 00-0240 EA 1 T5HO Lamp, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	316.91	50.55
26 51 16 00-0241 EA 2 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	334.87	50.55
26 51 16 00-0242 EA 3 T5HO Lamps, 4' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	397.64	50.55
26 51 16 00-0243 EA 2 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	414.32	50.55
26 51 16 00-0244 EA 4 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	490.97	50.55
26 51 16 00-0245 EA 6 T5HO Lamps, 8' Length, Pendant Mounted, Horizontal Indirect Fluorescent Fixture.....	581.89	50.55
<b>26 51 16 00-0246 Finelite Fluorescent Fixtures (26 51 16 00-0209)</b>		
<b>26 51 16 00-0247 Pendant Mounted, Fluorescent Downlight Fixtures (Finelite Series 10) (26 51 16 00-0246)</b>		
26 51 16 00-0248 EA 1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	536.05	71.68
26 51 16 00-0249 EA 2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	533.86	71.68
26 51 16 00-0250 EA 3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	575.79	71.68
26 51 16 00-0251 EA 1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	641.07	71.68
26 51 16 00-0252 EA 2 T5HO Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	699.76	71.68
26 51 16 00-0253 EA 3 T5HO Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	855.54	71.68
26 51 16 00-0254 EA 2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	757.58	74.76
26 51 16 00-0255 EA 4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	779.68	74.76
26 51 16 00-0256 EA 6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	863.55	74.76
26 51 16 00-0257 EA 2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	826.40	74.76
26 51 16 00-0258 EA 4 T5HO Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	1,032.04	74.76
26 51 16 00-0259 EA 6 T5HO Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	1,211.21	74.76
26 51 16 00-0260 EA 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	996.78	77.84
26 51 16 00-0261 EA 6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	1,034.33	77.84
26 51 16 00-0262 EA 9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	1,142.50	77.84
26 51 16 00-0263 EA 3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	1,144.13	77.84
26 51 16 00-0264 EA 6 T5HO Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	1,408.47	77.84
26 51 16 00-0265 EA 9 T5HO Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Downlight Fixture (Finelite Series 10).....	1,681.63	77.84
<b>26 51 16 00-0266 Pendant Mounted, Fluorescent Wallwash Fixtures (Finelite Series X2-O) (26 51 16 00-0246)</b>		
26 51 16 00-0267 EA 1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	543.49	71.68
26 51 16 00-0268 EA 1 T5 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	590.68	71.68
26 51 16 00-0269 EA 1 T5HO Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	589.03	71.68
26 51 16 00-0270 EA 2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	791.99	74.76
26 51 16 00-0271 EA 2 T5 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	846.57	74.76
26 51 16 00-0272 EA 2 T5HO Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	843.26	74.76
26 51 16 00-0273 EA 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	1,040.51	77.84



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0274 EA 3 T5 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	1,182.07	77.84
26 51 16 00-0275 EA 3 T5HO Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Wallwash Fixture (Finelite Series X2-O).....	1,177.11	77.84
<b>26 51 16 00-0276 Pendant Mounted, Fluorescent Indirect Fixtures (Finelite Series 8) (26 51 16 00-0246)</b>		
26 51 16 00-0277 EA 1 T8 Lamp, 1 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	418.57	71.68
26 51 16 00-0278 EA 2 T8 Lamps, 2 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	440.46	71.68
26 51 16 00-0279 EA 3 T8 Lamps, 3 Lamp Wide Cross Section, 4' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	518.29	71.68
26 51 16 00-0280 EA 2 T8 Lamps, 1 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	542.69	74.76
26 51 16 00-0281 EA 4 T8 Lamps, 2 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	637.33	74.76
26 51 16 00-0282 EA 6 T8 Lamps, 3 Lamp Wide Cross Section, 8' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	749.76	74.76
26 51 16 00-0283 EA 3 T8 Lamps, 1 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	743.11	77.84
26 51 16 00-0284 EA 6 T8 Lamps, 2 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	905.41	77.84
26 51 16 00-0285 EA 9 T8 Lamps, 3 Lamp Wide Cross Section, 12' Length, Pendant Mounted, Fluorescent Indirect Fixture (Finelite Series 8-I).....	1,077.87	77.84
<b>26 51 16 00-0286 Fluorescent, Recessed Fixture Housings (26 51 16)</b>		
26 51 16 00-0287 EA 4" Round, Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	152.23 11.10	44.00
26 51 16 00-0288 EA 5" Round, Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	156.92 11.71	44.00
26 51 16 00-0289 EA 6" Round, Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	163.55 12.17	45.99
26 51 16 00-0290 EA 7" Round, Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	171.78 12.83	47.68
26 51 16 00-0291 EA 8" Round, Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	179.05 13.37	50.15
26 51 16 00-0292 EA 10" To 12" Square, Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	185.80 13.65	53.22
<b>26 51 16 00-0293 Compact Fluorescent, Recessed Fixture Housings (26 51 16)</b>		
26 51 16 00-0294 EA 4" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	172.40 13.71	44.00
26 51 16 00-0295 EA 5" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	177.02 14.30	44.00
26 51 16 00-0296 EA 6" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	183.80 14.78	46.15
26 51 16 00-0297 EA 7" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	189.38 15.10	48.14
26 51 16 00-0298 EA 8" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	195.70 15.52	50.15
26 51 16 00-0299 EA 10" To 12" Round, Compact Fluorescent, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	202.10 15.75	53.22
<b>26 51 16 00-0300 Fluorescent Track Lighting Fixtures (26 51 16)</b>		
26 51 16 00-0301 EA 2L 18W BX Track Fixture, Electronic Ballast ..... Note: White or Black Finish, 120V.	304.21	25.68
26 51 16 00-0302 EA 2L 39W BX Track Fixture, Electronic Ballast ..... Note: White or Black Finish, 120V.	312.97	25.68
26 51 16 00-0303 EA 2L 40W BX Track Fixture, Electronic Ballast ..... Note: White or Black Finish, 120V.	318.45	25.68
26 51 16 00-0304 EA 2L 50W BX Track Fixture, Electronic Ballast ..... Note: White or Black Finish, 120V.	202.72	25.68
26 51 16 00-0305 EA 2L, 55 Watt BX Track Fixture, Electronic Ballast ..... Note: White or Black Finish, 120V.	340.20	25.68
<b>26 51 16 00-0306 Compact Fluorescent Track Lighting Fixtures (26 51 16)</b>		
26 51 16 00-0307 EA Compact Fluorescent Track Lighting Fixture .....	109.62	25.68
<b>26 51 16 00-0308 Compact Fluorescent, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 16)</b>		
26 51 16 00-0309 EA 13 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	159.57 6.02	61.53
26 51 16 00-0310 EA 22 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	163.16 6.02	61.53
26 51 16 00-0311 EA 28 Watt Compact Fluorescent, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	172.05 6.02	61.53

**26 Electrical**  
**26 50 Lighting**  
**26 51 Interior Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 16 00-0312 Wet Location, Dust Resistant, Vapor Tight, Enclosed And Gasketed, Industrial Fluorescent Fixtures <small>(26 51 16)</small>		
26 51 16 00-0313 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures <small>(26 51 16 00-0312)</small>		
26 51 16 00-0314 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia DMW) <small>(26 51 16 00-0313)</small>		
Note: Includes high impact acrylic molded lens.		
26 51 16 00-0315 EA 1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	337.92	65.50
For T5 Fixture Instead Of T8, Add	27.43	
26 51 16 00-0316 EA 2 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	353.48	65.50
For T5 Fixture Instead Of T8, Add	29.21	
26 51 16 00-0317 EA 3 T8 Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	545.24	65.50
For T5 Fixture Instead Of T8, Add	51.16	
26 51 16 00-0318 EA 1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	472.12	65.50
26 51 16 00-0319 EA 2 T8HO Lamps, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia DMW).....	750.77	65.50
26 51 16 00-0320 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Day- Brite V2W) <small>(26 51 16 00-0313)</small>		
Note: Includes high impact acrylic molded lens.		
26 51 16 00-0321 EA 1 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	384.83	65.50
26 51 16 00-0322 EA 2 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	389.49	65.50
26 51 16 00-0323 EA 3 T8 Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	559.76	65.50
26 51 16 00-0324 EA 1 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	465.66	65.50
26 51 16 00-0325 EA 2 T8HO Lamp, 4' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Day-Brite V2W).....	485.98	65.50
26 51 16 00-0326 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures <small>(26 51 16 00-0312)</small>		
Note: Includes high impact acrylic molded lens.		
26 51 16 00-0327 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixtures (Lithonia TDMW) <small>(26 51 16 00-0326)</small>		
Note: Includes high impact acrylic molded lens.		
26 51 16 00-0328 EA 2 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW).....	629.96	88.97
For T5 Fixture Instead Of T8, Add	56.84	
26 51 16 00-0329 EA 4 T8 Lamps, 8' Length, Enclosed And Gasketed, Industrial Fluorescent Fixture (Lithonia TDMW).....	654.45	88.97
For T5 Fixture Instead Of T8, Add	59.64	
26 51 16 00-0330 High Bay Fluorescent Fixtures <small>(26 51 16)</small>		
26 51 16 00-0331 (T8) Fluorescent, High Bay Fixtures <small>(26 51 16 00-0330)</small>		
26 51 16 00-0332 (T8) Fluorescent, High Bay Fixtures (Lithonia) <small>(26 51 16 00-0331)</small>		
Note: For 8' fixture, use two (2) 4' fixtures.		
26 51 16 00-0333 EA 2 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	552.18	143.36
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 16 00-0334 EA 3 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	580.54	158.82
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 16 00-0335 EA 4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	658.32	181.31
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 16 00-0336 EA 6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	782.48	191.01
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 16 00-0337 EA 8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	849.43	199.86
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 16 00-0338 EA 4 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	503.40	181.31
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 16 00-0339 EA 6 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	530.71	191.01
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 16 00-0340 EA 8 T8 Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	601.62	199.86
For Wire Guard, Add	40.50	
For Polycarbonate Lens, Add	47.75	
For Acrylic Lens, Add	54.00	
26 51 16 00-0341 (T5HO) Fluorescent, High Bay Fixtures <small>(26 51 16 00-0330)</small>		



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Interior Lighting	26 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**26 51 16 00-0342 (T5HO) Fluorescent, High Bay Fixtures (Lithonia) (26 51 16 00-0341)**  
 Note: For 8' fixture, use two (2) 4' fixtures.

26 51 16 00-0343	EA 2 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	555.88	143.36
	For Wire Guard, Add	40.50	
	For Polycarbonate Lens, Add	47.75	
	For Acrylic Lens, Add	54.00	
26 51 16 00-0344	EA 3 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	583.34	158.82
	For Wire Guard, Add	40.50	
	For Polycarbonate Lens, Add	47.75	
	For Acrylic Lens, Add	54.00	
26 51 16 00-0345	EA 4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	663.96	181.31
	For Wire Guard, Add	40.50	
	For Polycarbonate Lens, Add	47.75	
	For Acrylic Lens, Add	54.00	
26 51 16 00-0346	EA 6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia FGB).....	796.01	191.01
	For Wire Guard, Add	40.50	
	For Polycarbonate Lens, Add	47.75	
	For Acrylic Lens, Add	54.00	
26 51 16 00-0347	EA 4 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	523.87	181.31
	For Wire Guard, Add	40.50	
	For Polycarbonate Lens, Add	47.75	
	For Acrylic Lens, Add	54.00	
26 51 16 00-0348	EA 6 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	573.54	191.01
	For Wire Guard, Add	40.50	
	For Polycarbonate Lens, Add	47.75	
	For Acrylic Lens, Add	54.00	
26 51 16 00-0349	EA 8 T5HO Lamps, 4' Length, Fluorescent High Bay Fixture (Lithonia IBZ).....	661.40	199.86
	For Wire Guard, Add	40.50	
	For Polycarbonate Lens, Add	47.75	
	For Acrylic Lens, Add	54.00	

**26 51 19 LED Interior Lighting (26 51)**

**26 51 19 00-0001 LED Fixtures (26 51 19)**

**26 51 19 00-0002 Undercabinet LED Fixtures (26 51 19 00-0001)**

26 51 19 00-0003	EA 12" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ12-M6).....	151.46	37.95
	For >50 To 100, Deduct	-5.37	
	For >100 To 250, Deduct	-9.15	
	For >250 To 500, Deduct	-15.15	
	For >500, Deduct	-21.14	
26 51 19 00-0004	EA 18" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ18-M6).....	187.29	46.38
	For >50 To 100, Deduct	-6.61	
	For >100 To 250, Deduct	-11.30	
	For >250 To 500, Deduct	-18.73	
	For >500, Deduct	-26.16	
26 51 19 00-0005	EA 24" Length, Undercabinet/Modular General Purpose LED Fixture (Lithonia RAZ24-M6).....	188.64	46.38
	For >50 To 100, Deduct	-6.65	
	For >100 To 250, Deduct	-11.36	
	For >250 To 500, Deduct	-18.86	
	For >500, Deduct	-26.36	
26 51 19 00-0006	EA 24" HIDE-A-LITE V Series LED Undercabinet Fixture (Progress Lighting P700003-028-30).....	175.72	37.95
	For >50 To 100, Deduct	-5.97	
	For >100 To 250, Deduct	-10.37	
	For >250 To 500, Deduct	-17.57	
	For >500, Deduct	-24.78	

**26 51 19 00-0007 Surface Mount Linear/Striplight LED Fixtures (26 51 19 00-0001)**

**26 51 19 00-0008 Striplight LED Fixtures (Lithonia ZL) (26 51 19 00-0007)**

26 51 19 00-0009	EA 3,000 Lumens, 2' Length, LED Striplight Fixture (Lithonia ZL1).....	219.95	42.16
	For >50 To 100, Deduct	-7.08	
	For >100 To 250, Deduct	-12.58	
	For >250 To 500, Deduct	-22.00	
	For >500, Deduct	-31.41	
26 51 19 00-0010	EA 2,800 Lumens, 4' Length, LED Striplight Fixture (Lithonia ZL1).....	234.00	51.44
	For >50 To 100, Deduct	-7.78	
	For >100 To 250, Deduct	-13.63	
	For >250 To 500, Deduct	-23.40	
	For >500, Deduct	-33.17	
26 51 19 00-0011	EA 1,400 Lumens, 2' Length, Lensed LED Striplight Fixture (Lithonia ZL2).....	249.76	42.16
	For >50 To 100, Deduct	-7.83	
	For >100 To 250, Deduct	-14.07	
	For >250 To 500, Deduct	-24.98	
	For >500, Deduct	-35.88	
26 51 19 00-0012	EA 2,300 Lumens, 4' Length, Lensed LED Striplight Fixture (Lithonia ZL2).....	263.81	51.44
	For >50 To 100, Deduct	-8.53	
	For >100 To 250, Deduct	-15.12	
	For >250 To 500, Deduct	-26.38	
	For >500, Deduct	-37.64	

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0013	EA		4,600 Lumens, 4' Length, Lensed LED Striplight Fixture (Lithonia ZL2).....	324.28	51.44
			<i>For &gt;50 To 100, Deduct</i>	-10.04	
			<i>For &gt;100 To 250, Deduct</i>	-18.15	
			<i>For &gt;250 To 500, Deduct</i>	-32.43	
			<i>For &gt;500, Deduct</i>	-46.71	
<b>26 51 19 00-0014</b>			<b>Striplight LED Fixtures (Mobern) (26 51 19 00-0007)</b>		
26 51 19 00-0015	EA		1,100 Lumens, 12 Watt, 2' Length, Chrome, LED Bracket Fixture (Mobern 7924LED12DMV30) .....	232.51	42.16
			<i>For &gt;50 To 100, Deduct</i>	-7.39	
			<i>For &gt;100 To 250, Deduct</i>	-13.21	
			<i>For &gt;250 To 500, Deduct</i>	-23.25	
			<i>For &gt;500, Deduct</i>	-33.30	
<b>26 51 19 00-0016</b>			<b>Striplight LED Fixtures (Eaton) (26 51 19 00-0007)</b>		
26 51 19 00-0017	EA		2,301 Lumens, 18 Watt, 4' Length, LED Strip Lighting (Eaton Lighting 4SNLED-LD4-22SL-LC-UNV-L840-CD1-U) .....	295.05	51.44
			<i>For &gt;50 To 100, Deduct</i>	-9.31	
			<i>For &gt;100 To 250, Deduct</i>	-16.69	
			<i>For &gt;250 To 500, Deduct</i>	-29.51	
			<i>For &gt;500, Deduct</i>	-42.33	
26 51 19 00-0018	EA		2,382 Lumens, 16 Watt, 4' Length, LED Clear Lensed Striplight (Cooper Industries 4SNLED-LD5-22SL-LC-UNV-L840-CD1-U) .....	279.17	51.44
			<i>For &gt;50 To 100, Deduct</i>	-8.91	
			<i>For &gt;100 To 250, Deduct</i>	-15.89	
			<i>For &gt;250 To 500, Deduct</i>	-27.92	
			<i>For &gt;500, Deduct</i>	-39.94	
26 51 19 00-0019	EA		2,382 Lumens, 16 Watt, 4' Length, Clear Lens, LED Striplight (Cooper Industries Metalux Series 4SNLED-LD5-22SL-LC-UNV-830-CD1-U) .....	295.05	51.44
			<i>For &gt;50 To 100, Deduct</i>	-9.31	
			<i>For &gt;100 To 250, Deduct</i>	-16.69	
			<i>For &gt;250 To 500, Deduct</i>	-29.51	
			<i>For &gt;500, Deduct</i>	-42.33	
<b>26 51 19 00-0020</b>			<b>Lay-In/Troffer LED Fixtures (26 51 19 00-0001)</b>		
<b>26 51 19 00-0021</b>			<b>Prismatic Lensed, Lay-In/Troffer LED Fixtures (26 51 19 00-0020)</b>		
<b>26 51 19 00-0022</b>			<b>Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0021)</b>		
26 51 19 00-0023	EA		1' x 4', 4,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia TL4) .....	606.52	51.02
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	49.65	
			<i>For &gt;50 To 100, Deduct</i>	-17.10	
			<i>For &gt;100 To 250, Deduct</i>	-32.26	
			<i>For &gt;250 To 500, Deduct</i>	-60.65	
			<i>For &gt;500, Deduct</i>	-89.05	
26 51 19 00-0024	EA		2' x 2', 3,300 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL2) .....	342.85	56.22
			<i>For Drywall Or Plaster Ceilings, Add</i>	37.95	
			<i>For &gt;50 To 100, Deduct</i>	-10.68	
			<i>For &gt;100 To 250, Deduct</i>	-19.25	
			<i>For &gt;250 To 500, Deduct</i>	-34.29	
			<i>For &gt;500, Deduct</i>	-49.32	
26 51 19 00-0025	EA		2' x 4', 4,600 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lithonia 2TL4) .....	616.22	65.50
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	55.41	
			<i>For &gt;50 To 100, Deduct</i>	-17.87	
			<i>For &gt;100 To 250, Deduct</i>	-33.27	
			<i>For &gt;250 To 500, Deduct</i>	-61.62	
			<i>For &gt;500, Deduct</i>	-89.97	
<b>26 51 19 00-0026</b>			<b>Prismatic Lensed, Lay-In/Troffer LED Fixtures (Lunera) (26 51 19 00-0021)</b>		
26 51 19 00-0027	EA		1' x 4', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 14G4) .....	867.61	51.02
			<i>For &gt;50 To 100, Deduct</i>	-23.62	
			<i>For &gt;100 To 250, Deduct</i>	-45.31	
			<i>For &gt;250 To 500, Deduct</i>	-86.76	
			<i>For &gt;500, Deduct</i>	-128.21	
26 51 19 00-0028	EA		2' x 2', 3,200 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 22G5) .....	615.89	56.22
			<i>For &gt;50 To 100, Deduct</i>	-17.51	
			<i>For &gt;100 To 250, Deduct</i>	-32.90	
			<i>For &gt;250 To 500, Deduct</i>	-61.59	
			<i>For &gt;500, Deduct</i>	-90.28	
26 51 19 00-0029	EA		2' x 4', 4,175 Lumens, Prismatic Lensed, Lay-In/Troffer LED Fixture (Lunera® 24G4) .....	800.20	65.50
			<i>For &gt;50 To 100, Deduct</i>	-22.47	
			<i>For &gt;100 To 250, Deduct</i>	-42.47	
			<i>For &gt;250 To 500, Deduct</i>	-80.02	
			<i>For &gt;500, Deduct</i>	-117.57	
<b>26 51 19 00-0030</b>			<b>Prismatic Lensed, Lay-In/Troffer LED Fixtures (PlanLED) (26 51 19 00-0021)</b>		
26 51 19 00-0031	EA		2,591 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E).....	411.15	56.22
			<i>For &gt;50 To 100, Deduct</i>	-12.39	
			<i>For &gt;100 To 250, Deduct</i>	-22.67	
			<i>For &gt;250 To 500, Deduct</i>	-41.12	
			<i>For &gt;500, Deduct</i>	-59.56	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0032 EA 3,883 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED FTB4E).....	453.32	56.22
For >50 To 100, Deduct	-13.44	
For >100 To 250, Deduct	-24.77	
For >250 To 500, Deduct	-45.33	
For >500, Deduct	-65.89	
26 51 19 00-0033 EA 3,700 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-40) .....	387.95	56.22
For >50 To 100, Deduct	-11.81	
For >100 To 250, Deduct	-21.51	
For >250 To 500, Deduct	-38.80	
For >500, Deduct	-56.08	
26 51 19 00-0034 EA 4,200 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-45) .....	387.95	56.22
For >50 To 100, Deduct	-11.81	
For >100 To 250, Deduct	-21.51	
For >250 To 500, Deduct	-38.80	
For >500, Deduct	-56.08	
26 51 19 00-0035 EA 4,600 Lumens, 2' x 2', Prismatic Lensed, Lay-In/Troffer LED Fixture (PlanLED BL220-50) .....	415.37	56.22
For >50 To 100, Deduct	-12.49	
For >100 To 250, Deduct	-22.88	
For >250 To 500, Deduct	-41.54	
For >500, Deduct	-60.20	
<b>26 51 19 00-0036 Volumetric, Lay-In/Troffer LED Fixtures (26 51 19 00-0020)</b>		
<b>26 51 19 00-0037 Volumetric, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0036)</b>		
26 51 19 00-0038 EA 1' x 4', 3,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia RTL4) .....	473.98	51.02
For Drywall Or Plaster Ceilings, Add	34.79	
For >50 To 100, Deduct	-13.78	
For >100 To 250, Deduct	-25.63	
For >250 To 500, Deduct	-47.40	
For >500, Deduct	-69.16	
26 51 19 00-0039 EA 1' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia RTL4) .....	706.67	51.02
For Drywall Or Plaster Ceilings, Add	34.79	
For >50 To 100, Deduct	-19.60	
For >100 To 250, Deduct	-37.27	
For >250 To 500, Deduct	-70.67	
For >500, Deduct	-104.07	
26 51 19 00-0040 EA 2' x 2', 2,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) .....	553.68	56.22
For Drywall Or Plaster Ceilings With Frame Kit, Add	48.77	
For >50 To 100, Deduct	-15.95	
For >100 To 250, Deduct	-29.79	
For >250 To 500, Deduct	-55.37	
For >500, Deduct	-80.94	
26 51 19 00-0041 EA 2' x 2', 3,300 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) .....	633.68	56.22
For Drywall Or Plaster Ceilings With Frame Kit, Add	52.77	
For >50 To 100, Deduct	-17.95	
For >100 To 250, Deduct	-33.79	
For >250 To 500, Deduct	-63.37	
For >500, Deduct	-92.94	
26 51 19 00-0042 EA 2' x 2', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL2) .....	697.69	56.22
For >50 To 100, Deduct	-19.55	
For >100 To 250, Deduct	-36.99	
For >250 To 500, Deduct	-69.77	
For >500, Deduct	-102.55	
26 51 19 00-0043 EA 2' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) .....	711.75	65.50
For Drywall Or Plaster Ceilings With Frame Kit, Add	60.19	
For >50 To 100, Deduct	-20.25	
For >100 To 250, Deduct	-38.05	
For >250 To 500, Deduct	-71.18	
For >500, Deduct	-104.30	
26 51 19 00-0044 EA 2' x 4', 4,800 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) .....	775.75	65.50
For Drywall Or Plaster Ceilings With Frame Kit, Add	63.39	
For >50 To 100, Deduct	-21.85	
For >100 To 250, Deduct	-41.25	
For >250 To 500, Deduct	-77.58	
For >500, Deduct	-113.90	
26 51 19 00-0045 EA 2' x 4', 6,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture (Lithonia 2RTL4) .....	839.75	65.50
For Drywall Or Plaster Ceilings With Frame Kit, Add	66.59	
For >50 To 100, Deduct	-23.45	
For >100 To 250, Deduct	-44.45	
For >250 To 500, Deduct	-83.98	
For >500, Deduct	-123.50	
26 51 19 00-0046 EA 2' x 2', 2,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL2).....	489.69	56.22
For Drywall Or Plaster Ceilings With Frame Kit, Add	45.57	
For >50 To 100, Deduct	-14.35	
For >100 To 250, Deduct	-26.59	
For >250 To 500, Deduct	-48.97	
For >500, Deduct	-71.35	
26 51 19 00-0047 EA 2' x 2', 3,300 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL2).....	569.68	56.22
For Drywall Or Plaster Ceilings With Frame Kit, Add	49.57	
For >50 To 100, Deduct	-16.35	
For >100 To 250, Deduct	-30.59	
For >250 To 500, Deduct	-56.97	
For >500, Deduct	-83.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0048 EA 2' x 2', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL2).....	617.67	56.22
For Drywall Or Plaster Ceilings With Frame Kit, Add	51.97	
For >50 To 100, Deduct	-17.55	
For >100 To 250, Deduct	-32.99	
For >250 To 500, Deduct	-61.77	
For >500, Deduct	-90.54	
26 51 19 00-0049 EA 2' x 4', 3,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL4).....	615.75	65.50
For Drywall Or Plaster Ceilings With Frame Kit, Add	55.39	
For >50 To 100, Deduct	-17.85	
For >100 To 250, Deduct	-33.25	
For >250 To 500, Deduct	-61.58	
For >500, Deduct	-89.90	
26 51 19 00-0050 EA 2' x 4', 4,000 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL4).....	647.74	65.50
For Drywall Or Plaster Ceilings With Frame Kit, Add	56.98	
For >50 To 100, Deduct	-18.65	
For >100 To 250, Deduct	-34.85	
For >250 To 500, Deduct	-64.77	
For >500, Deduct	-94.70	
26 51 19 00-0051 EA 2' x 4', 4,800 Lumens, Volumetric, Lay-In/Troffer LED Fixture With Acrylic Linear Prismatic Diffuser (Lithonia 2VTL4).....	711.75	65.50
For Drywall Or Plaster Ceilings With Frame Kit, Add	60.19	
For >50 To 100, Deduct	-20.25	
For >100 To 250, Deduct	-38.05	
For >250 To 500, Deduct	-71.18	
For >500, Deduct	-104.30	
<b>26 51 19 00-0052 Architectural, Lay-In/Troffer LED Fixtures (26 51 19 00-0020)</b>		
<b>26 51 19 00-0053 Architectural, Lay-In/Troffer LED Fixtures (Lithonia) (26 51 19 00-0052)</b>		
Note: Includes 4,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.		
26 51 19 00-0054 EA 2,100 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4).....	388.25	65.50
For Drywall Or Plaster Ceilings With Frame Kit, Add	44.01	
For >50 To 100, Deduct	-12.17	
For >100 To 250, Deduct	-21.87	
For >250 To 500, Deduct	-38.83	
For >500, Deduct	-55.78	
26 51 19 00-0055 EA 4,300 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4).....	449.95	65.50
For Drywall Or Plaster Ceilings With Frame Kit, Add	47.10	
For >50 To 100, Deduct	-13.71	
For >100 To 250, Deduct	-24.96	
For >250 To 500, Deduct	-45.00	
For >500, Deduct	-65.03	
26 51 19 00-0056 EA 6,400 Lumens, 1' x 4', Architectural, Lay-In/Troffer LED Fixture (Lithonia ALL4).....	505.48	65.50
For Drywall Or Plaster Ceilings With Frame Kit, Add	49.87	
For >50 To 100, Deduct	-15.10	
For >100 To 250, Deduct	-27.73	
For >250 To 500, Deduct	-50.55	
For >500, Deduct	-73.36	
<b>26 51 19 00-0057 Architectural, Lay-In/Troffer LED Fixtures (CREE® CR Series) (26 51 19 00-0052)</b>		
Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0058 EA 1' x 4', 2,200 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™).....	515.85	65.50
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	170.87	
For Surface Mount, Add	275.26	
For >50 To 100, Deduct	-15.36	
For >100 To 250, Deduct	-28.25	
For >250 To 500, Deduct	-51.59	
For >500, Deduct	-74.92	
26 51 19 00-0059 EA 1' x 4', 3,100 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™).....	555.90	65.50
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	170.87	
For Surface Mount, Add	275.26	
For >50 To 100, Deduct	-16.36	
For >100 To 250, Deduct	-30.25	
For >250 To 500, Deduct	-55.59	
For >500, Deduct	-80.93	
26 51 19 00-0060 EA 1' x 4', 4,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™).....	555.90	65.50
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	170.87	
For Surface Mount, Add	275.26	
For >50 To 100, Deduct	-16.36	
For >100 To 250, Deduct	-30.25	
For >250 To 500, Deduct	-55.59	
For >500, Deduct	-80.93	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0061 EA 1' x 4', 5,000 Lumens, Architectural, Lay-In/Troffer LED Fixture (Cree® CR14™) .....	615.03	65.50
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	170.87	
For Surface Mount, Add	275.26	
For >50 To 100, Deduct	-17.84	
For >100 To 250, Deduct	-33.21	
For >250 To 500, Deduct	-61.50	
For >500, Deduct	-89.79	
26 51 19 00-0062 EA 2' x 2', 2,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™) .....	479.13	56.22
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	149.18	
For Surface Mount, Add	259.10	
For >50 To 100, Deduct	-14.09	
For >100 To 250, Deduct	-26.06	
For >250 To 500, Deduct	-47.91	
For >500, Deduct	-69.76	
26 51 19 00-0063 EA 2' x 2', 3,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR22™) .....	452.20	56.22
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	149.18	
For Surface Mount, Add	259.10	
For >50 To 100, Deduct	-13.41	
For >100 To 250, Deduct	-24.72	
For >250 To 500, Deduct	-45.22	
For >500, Deduct	-65.72	
26 51 19 00-0064 EA 2' x 4', 2,200 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) .....	538.07	65.50
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	174.68	
For Surface Mount, Add	300.06	
For >50 To 100, Deduct	-15.91	
For >100 To 250, Deduct	-29.36	
For >250 To 500, Deduct	-53.81	
For >500, Deduct	-78.25	
26 51 19 00-0065 EA 2' x 4', 3,100 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) .....	555.90	65.50
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	174.68	
For Surface Mount, Add	300.06	
For >50 To 100, Deduct	-16.36	
For >100 To 250, Deduct	-30.25	
For >250 To 500, Deduct	-55.59	
For >500, Deduct	-80.93	
26 51 19 00-0066 EA 2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) .....	555.90	65.50
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	174.68	
For Surface Mount, Add	300.06	
For >50 To 100, Deduct	-16.36	
For >100 To 250, Deduct	-30.25	
For >250 To 500, Deduct	-55.59	
For >500, Deduct	-80.93	
26 51 19 00-0067 EA 2' x 4', 4,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24 LHE™) .....	706.58	65.50
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	174.68	
For Surface Mount, Add	300.06	
For >50 To 100, Deduct	-20.12	
For >100 To 250, Deduct	-37.79	
For >250 To 500, Deduct	-70.66	
For >500, Deduct	-103.53	
26 51 19 00-0068 EA 2' x 4', 5,000 Lumens, Architectural, 120-277 Volt, Lay-In/Troffer LED Fixture (Cree® CR24™) .....	615.03	65.50
Note: CCT 30K to 50K		
For Expanded Size Junction Box For Through Wiring, Add	5.34	
For Drywall Or Plaster Ceilings, Add	174.68	
For Surface Mount, Add	300.06	
For >50 To 100, Deduct	-17.84	
For >100 To 250, Deduct	-33.21	
For >250 To 500, Deduct	-61.50	
For >500, Deduct	-89.79	
<b>26 51 19 00-0069 Architectural, Lay-In/Troffer LED Fixtures (Metalux®) (26 51 19 00-0052)</b>		
Note: Includes 3,000K, 3,500 or 4,000K color temperature, 120/277 voltage and code gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0070 EA 2' x 2', 2,500 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC) .....	282.01	56.22
For >50 To 100, Deduct	-9.16	
For >100 To 250, Deduct	-16.21	
For >250 To 500, Deduct	-28.20	
For >500, Deduct	-40.19	
26 51 19 00-0071 EA 2' x 4', 4,700 Lumens, Architectural, Lay-In/Troffer LED Fixture (Metalux® Accord™ 2AC) .....	370.66	65.50
For >50 To 100, Deduct	-11.73	
For >100 To 250, Deduct	-20.99	
For >250 To 500, Deduct	-37.07	
For >500, Deduct	-53.14	

**26 Electrical**  
**26 50 Lighting**  
**26 51 Interior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0072			<b>Architectural, Lay-In/Troffer LED Fixtures (Finelite)</b> <small>(26 51 19 00-0052)</small> Note: Includes 3,000K color temperature, 120/277 voltage and 20 gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0073	EA		2' x 2', 4,301 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2) .....	411.71	56.22
			<i>For &gt;50 To 100, Deduct</i>	-12.40	
			<i>For &gt;100 To 250, Deduct</i>	-22.69	
			<i>For &gt;250 To 500, Deduct</i>	-41.17	
			<i>For &gt;500, Deduct</i>	-59.65	
26 51 19 00-0074	EA		2' x 4', 4,671 Lumens, Architectural, Lay-In/Troffer LED Fixture (Finelite HPR LED A 2x2) .....	555.15	66.06
			<i>For &gt;50 To 100, Deduct</i>	-16.34	
			<i>For &gt;100 To 250, Deduct</i>	-30.22	
			<i>For &gt;250 To 500, Deduct</i>	-55.52	
			<i>For &gt;500, Deduct</i>	-80.81	
26 51 19 00-0075			<b>Shadow Box Style, Lay-In/Troffer LED Fixtures</b> <small>(26 51 19 00-0020)</small>		
26 51 19 00-0076			<b>Shadow Box Style, Lay-In/Troffer LED Fixtures (Lithonia SBSL)</b> <small>(26 51 19 00-0075)</small>		
26 51 19 00-0077	EA		2' x 2', 3,300 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL2) .....	644.68	56.22
			<i>For Drywall Or Plaster Ceilings, Add</i>	37.95	
			<i>For &gt;50 To 100, Deduct</i>	-18.23	
			<i>For &gt;100 To 250, Deduct</i>	-34.34	
			<i>For &gt;250 To 500, Deduct</i>	-64.47	
			<i>For &gt;500, Deduct</i>	-94.59	
26 51 19 00-0078	EA		2' x 4', 4,600 Lumens, Shadow Box Style, Lay-In/Troffer LED Fixture (Lithonia 2SBSL4) .....	876.41	65.50
			<i>For Drywall Or Plaster Ceilings With Frame Kit, Add</i>	68.42	
			<i>For &gt;50 To 100, Deduct</i>	-24.37	
			<i>For &gt;100 To 250, Deduct</i>	-46.28	
			<i>For &gt;250 To 500, Deduct</i>	-87.64	
			<i>For &gt;500, Deduct</i>	-129.00	
26 51 19 00-0079			<b>Panel Type, Lay-In/Troffer LED Fixtures</b> <small>(26 51 19 00-0020)</small>		
26 51 19 00-0080			<b>Panel Type, Lay-In/Troffer LED Fixtures (PlanLED Galaxy)</b> <small>(26 51 19 00-0079)</small>		
26 51 19 00-0081	EA		1' x 4', 3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL140-34) .....	447.92	65.50
			<i>For &gt;50 To 100, Deduct</i>	-13.66	
			<i>For &gt;100 To 250, Deduct</i>	-24.86	
			<i>For &gt;250 To 500, Deduct</i>	-44.79	
			<i>For &gt;500, Deduct</i>	-64.73	
26 51 19 00-0082	EA		2' x 2', 3,100 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL220-34) .....	464.66	65.50
			<i>For &gt;50 To 100, Deduct</i>	-14.08	
			<i>For &gt;100 To 250, Deduct</i>	-25.69	
			<i>For &gt;250 To 500, Deduct</i>	-46.47	
			<i>For &gt;500, Deduct</i>	-67.24	
26 51 19 00-0083	EA		2' x 4', 4,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-40) .....	575.59	65.50
			<i>For &gt;50 To 100, Deduct</i>	-16.85	
			<i>For &gt;100 To 250, Deduct</i>	-31.24	
			<i>For &gt;250 To 500, Deduct</i>	-57.56	
			<i>For &gt;500, Deduct</i>	-83.88	
26 51 19 00-0084	EA		2' x 4', 5,000 Lumens, Panel Type, Lay-In/Troffer LED Fixture (PlanLED Galaxy GL240-52) .....	575.59	65.50
			<i>For &gt;50 To 100, Deduct</i>	-16.85	
			<i>For &gt;100 To 250, Deduct</i>	-31.24	
			<i>For &gt;250 To 500, Deduct</i>	-57.56	
			<i>For &gt;500, Deduct</i>	-83.88	
26 51 19 00-0085			<b>Panel Type, Lay-In/Troffer LED Fixtures (Sylvania)</b> <small>(26 51 19 00-0079)</small>		
26 51 19 00-0086	EA		1' x 4', 3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/14G/WH) .....	245.50	65.50
			<i>For Surface Mounting Kit (Sylvania SMK1T1A/14A/WH), Add</i>	54.95	
			<i>For &gt;50 To 100, Deduct</i>	-8.60	
			<i>For &gt;100 To 250, Deduct</i>	-14.73	
			<i>For &gt;250 To 500, Deduct</i>	-24.55	
			<i>For &gt;500, Deduct</i>	-34.37	
26 51 19 00-0087	EA		2' x 2', 3,500 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/22G/WH) .....	252.67	65.50
			<i>For &gt;50 To 100, Deduct</i>	-8.78	
			<i>For &gt;100 To 250, Deduct</i>	-15.09	
			<i>For &gt;250 To 500, Deduct</i>	-25.27	
			<i>For &gt;500, Deduct</i>	-35.44	
26 51 19 00-0088	EA		2' x 4', 3,300 Lumens, 32 Watt, LED Edge Lite Panel (Sylvania PANELF1A/032UNVD840/24G/WH) .....	255.94	65.50
			<i>For Surface Mounting Kit (Sylvania SMK1T1A/24A/WH)</i>	68.69	
			<i>For &gt;50 To 100, Deduct</i>	-8.86	
			<i>For &gt;100 To 250, Deduct</i>	-15.26	
			<i>For &gt;250 To 500, Deduct</i>	-25.59	
			<i>For &gt;500, Deduct</i>	-35.93	
26 51 19 00-0089	EA		2' x 4', 3,300 Lumens, 32 Watt, 3500K CCT, LED Edge Lite Panel With Kit (Sylvania PANELF1A/032UNVD835/24G/WH_SMK1T1A/24A/WH) .....	565.52	65.50
			<i>For &gt;50 To 100, Deduct</i>	-16.60	
			<i>For &gt;100 To 250, Deduct</i>	-30.74	
			<i>For &gt;250 To 500, Deduct</i>	-56.55	
			<i>For &gt;500, Deduct</i>	-82.37	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0090 Surface Mount LED Fixtures <small>(26 51 19 00-0001)</small>		
26 51 19 00-0091 Surface Mount, Volumetric LED Fixtures (Lithonia STL) <small>(26 51 19 00-0090)</small>		
26 51 19 00-0092 EA 2' Length, 2,200 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL2).....	334.60	42.16
For >50 To 100, Deduct	-9.95	
For >100 To 250, Deduct	-18.31	
For >250 To 500, Deduct	-33.46	
For >500, Deduct	-48.61	
26 51 19 00-0093 EA 4' Length, 3,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4).....	305.69	51.44
For >50 To 100, Deduct	-9.57	
For >100 To 250, Deduct	-17.22	
For >250 To 500, Deduct	-30.57	
For >500, Deduct	-43.92	
26 51 19 00-0094 EA 4' Length, 4,000 Lumens, Surface Mount, Volumetric LED Fixture (Lithonia STL4).....	342.16	51.44
For >50 To 100, Deduct	-10.49	
For >100 To 250, Deduct	-19.04	
For >250 To 500, Deduct	-34.22	
For >500, Deduct	-49.39	
26 51 19 00-0095 Surface Mount, Wraparound LED Fixtures (Lithonia LBL) <small>(26 51 19 00-0090)</small>		
26 51 19 00-0096 EA 2' Length, 2,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL2).....	284.42	42.16
For >50 To 100, Deduct	-8.69	
For >100 To 250, Deduct	-15.80	
For >250 To 500, Deduct	-28.44	
For >500, Deduct	-41.08	
26 51 19 00-0097 EA 4' Length, 4,000 Lumens, Surface Mount, Wraparound LED Fixture (Lithonia LBL4).....	372.59	51.44
For >50 To 100, Deduct	-11.25	
For >100 To 250, Deduct	-20.56	
For >250 To 500, Deduct	-37.26	
For >500, Deduct	-53.96	
26 51 19 00-0098 Surface Mount, Shadow Box Style LED Fixtures <small>(26 51 19 00-0090)</small>		
26 51 19 00-0099 Surface Mount, Shadow Box Style LED Fixtures (Lithonia SBSLX) <small>(26 51 19 00-0090)</small>		
26 51 19 00-0100 EA 2' x 2', 3,300 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX2).....	822.58	56.22
For >50 To 100, Deduct	-22.67	
For >100 To 250, Deduct	-43.24	
For >250 To 500, Deduct	-82.26	
For >500, Deduct	-121.28	
26 51 19 00-0101 EA 2' x 4', 4,600 Lumens, Surface Mount, Shadow Box Style LED Fixture (Lithonia 2SBSLX4).....	1,054.31	65.50
For >50 To 100, Deduct	-28.82	
For >100 To 250, Deduct	-55.18	
For >250 To 500, Deduct	-105.43	
For >500, Deduct	-155.69	
26 51 19 00-0102 Surface Mount, Low Profile Fixtures <small>(26 51 19 00-0090)</small>		
26 51 19 00-0103 EA 6" Diameter, 993 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8538-90).....	122.38	38.51
For >50 To 100, Deduct	-4.98	
For >100 To 250, Deduct	-8.04	
For >250 To 500, Deduct	-12.24	
For >500, Deduct	-16.43	
26 51 19 00-0104 EA 6" Diameter, 1,215 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 8569).....	102.68	38.51
For >50 To 100, Deduct	-4.49	
For >100 To 250, Deduct	-7.06	
For >250 To 500, Deduct	-10.27	
For >500, Deduct	-13.48	
26 51 19 00-0105 EA 13" Diameter, 1,400 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting - 4329).....	163.73	38.51
For >50 To 100, Deduct	-6.02	
For >100 To 250, Deduct	-10.11	
For >250 To 500, Deduct	-16.37	
For >500, Deduct	-22.63	
26 51 19 00-0106 EA 15" Diameter, 2,100 Lumens, Low Profile Surface Mount, LED Fixture (RP Lighting 4330).....	195.25	38.51
For >50 To 100, Deduct	-6.81	
For >100 To 250, Deduct	-11.69	
For >250 To 500, Deduct	-19.53	
For >500, Deduct	-27.36	
26 51 19 00-0107 Recessed LED Downlights <small>(26 51 19 00-0001)</small>		
26 51 19 00-0108 Recessed LED Downlights <small>(26 51 19 00-0107)</small>		
26 51 19 00-0109 Recessed LED Downlights (Lithonia) <small>(26 51 19 00-0108)</small>		
Note: Includes housing and trim.		
26 51 19 00-0110 EA 8" Diameter, 1,200 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED).....	388.92	67.68
For Dimming Driver And Sensor Switch nLight Dimming Relay, Add	78.01	
For >50 To 100, Deduct	-12.26	
For >100 To 250, Deduct	-21.98	
For >250 To 500, Deduct	-38.89	
For >500, Deduct	-55.80	

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0111	EA	8" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lithonia DOM8 LED)..... <i>For Dimming Driver And Sensor Switch nLight Dimming Relay, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	419.77 78.01 -13.03 -23.53 -41.98 -60.43	67.68
26 51	19 00-0112		<b>Recessed LED Downlights (Portfolio®)</b> (26 51 19 00-0108) Note: Includes housing and trim.		
26 51	19 00-0113	EA	4" Diameter, 1,300 Lumens, Recessed LED Downlight With Open Trim (Portfolio® LD413)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	257.71 -8.98 -15.42 -25.77 -36.12	67.68
26 51	19 00-0114		<b>Recessed LED Downlights (Gotham® EVO®)</b> (26 51 19 00-0108) Note: Includes housing and trim.		
26 51	19 00-0115	EA	6" Diameter, 1,800 Lumens, Recessed LED Downlight With Open Trim (Gotham® EVO® ALED)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	306.51 -10.20 -17.86 -30.65 -43.44	67.68
26 51	19 00-0116	EA	6" Diameter, 1,800 Lumens, Recessed LED Shower Downlight With Non-Conductive Regressed Lens (Gotham® EVO® ALED)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	315.18 -10.42 -18.30 -31.52 -44.74	67.68
26 51	19 00-0117	EA	6" Diameter, 1,800 Lumens, Recessed LED Wallwash Downlight With Specular Reflector Trim (Gotham® EVO® DLWLED)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	350.74 -11.31 -20.08 -35.07 -50.07	67.68
26 51	19 00-0118	EA	6" Diameter, 1,800 Lumens, Decorative Recessed LED Downlight With Glass Drop Luminous Ring (Gotham® EVO® ALED)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	354.22 -11.39 -20.25 -35.42 -50.59	67.68
26 51	19 00-0119	EA	6" Diameter, 1,800 Lumens, Vandal Resistant, Recessed LED Downlight With Tempered Prismatic Lens (Gotham® EVO® VRALED)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	384.57 -12.15 -21.77 -38.46 -55.15	67.68
26 51	19 00-0120		<b>Recessed LED Downlights (Lightolier)</b> (26 51 19 00-0108) Note: Includes housing and trim.		
26 51	19 00-0121	EA	4" Diameter, 500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L05DL)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	622.69 -18.11 -33.67 -62.27 -90.87	67.68
26 51	19 00-0122	EA	4" Diameter, 1,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C4L10DL)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	727.19 -20.72 -38.90 -72.72 -106.54	67.68
26 51	19 00-0123	EA	6" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	779.33 -22.02 -41.50 -77.93 -114.36	67.68
26 51	19 00-0124	EA	6" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C6L1520DL)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	779.33 -22.02 -41.50 -77.93 -114.36	67.68
26 51	19 00-0125	EA	7" Diameter, 1,500 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	805.51 -22.68 -42.81 -80.55 -118.29	67.68
26 51	19 00-0126	EA	7" Diameter, 2,000 Lumens, Recessed LED Downlight With Open Trim (Lightolier C7L1520DL)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	831.71 -23.33 -44.12 -83.17 -122.22	67.68
26 51	19 00-0127		<b>Recessed LED Downlights (Cooper)</b> (26 51 19 00-0108)		



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0128 EA 600 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5606827) .....	171.76	67.68
For >50 To 100, Deduct	-6.83	
For >100 To 250, Deduct	-11.13	
For >250 To 500, Deduct	-17.18	
For >500, Deduct	-23.23	
26 51 19 00-0129 EA 600 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5606830) .....	171.76	67.68
For >50 To 100, Deduct	-6.83	
For >100 To 250, Deduct	-11.13	
For >250 To 500, Deduct	-17.18	
For >500, Deduct	-23.23	
26 51 19 00-0130 EA 600 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5606835) .....	171.76	67.68
For >50 To 100, Deduct	-6.83	
For >100 To 250, Deduct	-11.13	
For >250 To 500, Deduct	-17.18	
For >500, Deduct	-23.23	
26 51 19 00-0131 EA 600 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5606840) .....	171.76	67.68
For >50 To 100, Deduct	-6.83	
For >100 To 250, Deduct	-11.13	
For >250 To 500, Deduct	-17.18	
For >500, Deduct	-23.23	
26 51 19 00-0132 EA 900 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5609827) .....	174.37	67.68
For >50 To 100, Deduct	-6.90	
For >100 To 250, Deduct	-11.26	
For >250 To 500, Deduct	-17.44	
For >500, Deduct	-23.62	
26 51 19 00-0133 EA 900 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5609830) .....	174.37	67.68
For >50 To 100, Deduct	-6.90	
For >100 To 250, Deduct	-11.26	
For >250 To 500, Deduct	-17.44	
For >500, Deduct	-23.62	
26 51 19 00-0134 EA 900 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5609835) .....	174.37	67.68
For >50 To 100, Deduct	-6.90	
For >100 To 250, Deduct	-11.26	
For >250 To 500, Deduct	-17.44	
For >500, Deduct	-23.62	
26 51 19 00-0135 EA 900 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5609840) .....	174.37	67.68
For >50 To 100, Deduct	-6.90	
For >100 To 250, Deduct	-11.26	
For >250 To 500, Deduct	-17.44	
For >500, Deduct	-23.62	
26 51 19 00-0136 EA 1,200 Lumens, 2700K CCT, LED Downlight (Cooper Halo ML5612827) .....	209.84	67.68
For >50 To 100, Deduct	-7.78	
For >100 To 250, Deduct	-13.03	
For >250 To 500, Deduct	-20.98	
For >500, Deduct	-28.94	
26 51 19 00-0137 EA 1,200 Lumens, 3000K CCT, LED Downlight (Cooper Halo ML5612830) .....	208.04	67.68
For >50 To 100, Deduct	-7.74	
For >100 To 250, Deduct	-12.94	
For >250 To 500, Deduct	-20.80	
For >500, Deduct	-28.67	
26 51 19 00-0138 EA 1,200 Lumens, 3500K CCT, LED Downlight (Cooper Halo ML5612835) .....	208.04	67.68
For >50 To 100, Deduct	-7.74	
For >100 To 250, Deduct	-12.94	
For >250 To 500, Deduct	-20.80	
For >500, Deduct	-28.67	
26 51 19 00-0139 EA 1,200 Lumens, 4000K CCT, LED Downlight (Cooper Halo ML5612840) .....	208.04	67.68
For >50 To 100, Deduct	-7.74	
For >100 To 250, Deduct	-12.94	
For >250 To 500, Deduct	-20.80	
For >500, Deduct	-28.67	
26 51 19 00-0140 EA 5" LED Trim, Polymer Dead-Front, Shallow White Baffle And Flange (Cooper Halo 591WB) .....	95.41	21.54
For >50 To 100, Deduct	-3.19	
For >100 To 250, Deduct	-5.58	
For >250 To 500, Deduct	-9.54	
For >500, Deduct	-13.50	
26 51 19 00-0141 EA 5" LED Trim, Specular Reflector And White Flange (Cooper Halo 592SC) .....	62.95	21.54
For >50 To 100, Deduct	-2.38	
For >100 To 250, Deduct	-3.96	
For >250 To 500, Deduct	-6.30	
For >500, Deduct	-8.63	
26 51 19 00-0142 EA 5" LED Trim, Haze Reflector And White Flange (Cooper Halo 592H) .....	76.92	21.54
For >50 To 100, Deduct	-2.73	
For >100 To 250, Deduct	-4.65	
For >250 To 500, Deduct	-7.69	
For >500, Deduct	-10.73	
26 51 19 00-0143 EA 5" LED Trim, White Reflector And Flange (Cooper Halo 592W) .....	65.76	21.54
For >50 To 100, Deduct	-2.45	
For >100 To 250, Deduct	-4.10	
For >250 To 500, Deduct	-6.58	
For >500, Deduct	-9.06	
26 51 19 00-0144 EA 5" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 593WB) .....	54.35	21.54
For >50 To 100, Deduct	-2.17	
For >100 To 250, Deduct	-3.53	
For >250 To 500, Deduct	-5.44	
For >500, Deduct	-7.34	

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0145 EA 5" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 593BB).....	65.26	21.54
For>50 To 100, Deduct	-2.44	
For>100 To 250, Deduct	-4.07	
For>250 To 500, Deduct	-6.53	
For>500, Deduct	-8.98	
26 51 19 00-0146 EA 5" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 593SNB) .....	71.91	21.54
For>50 To 100, Deduct	-2.61	
For>100 To 250, Deduct	-4.40	
For>250 To 500, Deduct	-7.19	
For>500, Deduct	-9.98	
26 51 19 00-0147 EA 5" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 593TBZB) .....	77.83	21.54
For>50 To 100, Deduct	-2.75	
For>100 To 250, Deduct	-4.70	
For>250 To 500, Deduct	-7.78	
For>500, Deduct	-10.87	
26 51 19 00-0148 EA 5" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 594WB).....	89.39	21.54
For>50 To 100, Deduct	-3.04	
For>100 To 250, Deduct	-5.28	
For>250 To 500, Deduct	-8.94	
For>500, Deduct	-12.60	
26 51 19 00-0149 EA 5" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 594SNB) .....	89.77	21.54
For>50 To 100, Deduct	-3.05	
For>100 To 250, Deduct	-5.30	
For>250 To 500, Deduct	-8.98	
For>500, Deduct	-12.66	
26 51 19 00-0150 EA 5" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 594TBZB) .....	88.11	21.54
For>50 To 100, Deduct	-3.01	
For>100 To 250, Deduct	-5.21	
For>250 To 500, Deduct	-8.81	
For>500, Deduct	-12.41	
26 51 19 00-0151 EA 5" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 595WW).....	107.08	21.54
For>50 To 100, Deduct	-3.48	
For>100 To 250, Deduct	-6.16	
For>250 To 500, Deduct	-10.71	
For>500, Deduct	-15.25	
26 51 19 00-0152 EA 5" LED Trim, White Shallow Baffle And Flange (Cooper Halo 596WB) .....	54.76	21.54
For>50 To 100, Deduct	-2.18	
For>100 To 250, Deduct	-3.55	
For>250 To 500, Deduct	-5.48	
For>500, Deduct	-7.41	
26 51 19 00-0153 EA 6" LED Trim, Polymer Dead-Front, White Shallow Baffle And Flange (Cooper Halo 691WB) .....	92.63	21.54
For>50 To 100, Deduct	-3.12	
For>100 To 250, Deduct	-5.44	
For>250 To 500, Deduct	-9.26	
For>500, Deduct	-13.09	
26 51 19 00-0154 EA 6" LED Trim, Specular Reflector And White Flange (Cooper Halo 692SC) .....	79.86	21.54
For>50 To 100, Deduct	-2.80	
For>100 To 250, Deduct	-4.80	
For>250 To 500, Deduct	-7.99	
For>500, Deduct	-11.17	
26 51 19 00-0155 EA 6" LED Trim, Haze Reflector And White Flange (Cooper Halo 692H) .....	75.38	21.54
For>50 To 100, Deduct	-2.69	
For>100 To 250, Deduct	-4.58	
For>250 To 500, Deduct	-7.54	
For>500, Deduct	-10.50	
26 51 19 00-0156 EA 6" LED Trim, White Reflector And Flange (Cooper Halo 692W).....	67.99	21.54
For>50 To 100, Deduct	-2.51	
For>100 To 250, Deduct	-4.21	
For>250 To 500, Deduct	-6.80	
For>500, Deduct	-9.39	
26 51 19 00-0157 EA 6" LED Trim, White Micro-Step Baffle And Flange (Cooper Halo 693WB) .....	68.53	21.54
For>50 To 100, Deduct	-2.52	
For>100 To 250, Deduct	-4.23	
For>250 To 500, Deduct	-6.85	
For>500, Deduct	-9.47	
26 51 19 00-0158 EA 6" LED Trim, Black Micro-Step Baffle And White Flange (Cooper Halo 693BB).....	73.27	21.54
For>50 To 100, Deduct	-2.64	
For>100 To 250, Deduct	-4.47	
For>250 To 500, Deduct	-7.33	
For>500, Deduct	-10.18	
26 51 19 00-0159 EA 6" LED Trim, Satin Nickel Micro-Step Baffle And Flange (Cooper Halo 693SNB) .....	67.70	21.54
For>50 To 100, Deduct	-2.50	
For>100 To 250, Deduct	-4.19	
For>250 To 500, Deduct	-6.77	
For>500, Deduct	-9.35	
26 51 19 00-0160 EA 6" LED Trim, Tuscan Bronze Micro-Step Baffle And Flange (Cooper Halo 693TBZB) .....	82.82	21.54
For>50 To 100, Deduct	-2.88	
For>100 To 250, Deduct	-4.95	
For>250 To 500, Deduct	-8.28	
For>500, Deduct	-11.62	
26 51 19 00-0161 EA 6" LED Directional Trim, White eyeball, Baffle And Flange (Cooper Halo 694WB).....	89.20	21.54
For>50 To 100, Deduct	-3.04	
For>100 To 250, Deduct	-5.27	
For>250 To 500, Deduct	-8.92	
For>500, Deduct	-12.57	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0162 EA 6" LED Directional Trim, Satin Nickel eyeball, Baffle And Flange (Cooper Halo 694SNB).....	110.40	21.54
For >50 To 100, Deduct	-3.57	
For >100 To 250, Deduct	-6.33	
For >250 To 500, Deduct	-11.04	
For >500, Deduct	-15.75	
26 51 19 00-0163 EA 6" LED Directional Trim, Tuscan Bronze eyeball, Baffle And Flange (Cooper Halo 694TBZB).....	107.74	21.54
For >50 To 100, Deduct	-3.50	
For >100 To 250, Deduct	-6.19	
For >250 To 500, Deduct	-10.77	
For >500, Deduct	-15.35	
26 51 19 00-0164 EA 6" LED Trim, Wall Wash - Specular reflector, repositionable Specular kick reflector, White Flange (Cooper Halo 695WW).....	108.91	21.54
For >50 To 100, Deduct	-3.53	
For >100 To 250, Deduct	-6.25	
For >250 To 500, Deduct	-10.89	
For >500, Deduct	-15.53	
26 51 19 00-0165 EA 6" LED Trim, White Shallow Baffle And Flange (Cooper Halo 696WB).....	69.17	21.54
For >50 To 100, Deduct	-2.54	
For >100 To 250, Deduct	-4.27	
For >250 To 500, Deduct	-6.92	
For >500, Deduct	-9.57	
26 51 19 00-0166 EA 6" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H750ICAT).....	74.92	46.15
For >50 To 100, Deduct	-3.60	
For >100 To 250, Deduct	-5.48	
For >250 To 500, Deduct	-7.49	
For >500, Deduct	-9.51	
26 51 19 00-0167 EA 6" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H750RICAT).....	80.11	46.15
For >50 To 100, Deduct	-3.73	
For >100 To 250, Deduct	-5.74	
For >250 To 500, Deduct	-8.01	
For >500, Deduct	-10.29	
26 51 19 00-0168 EA 6" LED, Non-IC, Air-Tite, New Construction Housing (Cooper Halo H750T).....	78.03	46.15
For >50 To 100, Deduct	-3.68	
For >100 To 250, Deduct	-5.63	
For >250 To 500, Deduct	-7.80	
For >500, Deduct	-9.97	
26 51 19 00-0169 EA 6" LED, Non-IC, New Construction/Remodel Chicago Plenum Housing (Cooper Halo H750TCP).....	98.49	46.15
For >50 To 100, Deduct	-4.19	
For >100 To 250, Deduct	-6.66	
For >250 To 500, Deduct	-9.85	
For >500, Deduct	-13.04	
26 51 19 00-0170 EA 6" LED, Shallow, Insulated Ceiling, Air-Tite, New Constr. (Cooper Halo H2750ICAT).....	96.09	46.15
For >50 To 100, Deduct	-4.13	
For >100 To 250, Deduct	-6.54	
For >250 To 500, Deduct	-9.61	
For >500, Deduct	-12.68	
26 51 19 00-0171 EA 6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H7ICAT).....	80.82	46.15
For >50 To 100, Deduct	-3.75	
For >100 To 250, Deduct	-5.77	
For >250 To 500, Deduct	-8.08	
For >500, Deduct	-10.39	
26 51 19 00-0172 EA 6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H7RICAT).....	84.32	46.15
For >50 To 100, Deduct	-3.84	
For >100 To 250, Deduct	-5.95	
For >250 To 500, Deduct	-8.43	
For >500, Deduct	-10.92	
26 51 19 00-0173 EA 6" Insulated Ceiling, New Construction Housing (Cooper Halo H7ICT).....	80.09	46.15
For >50 To 100, Deduct	-3.73	
For >100 To 250, Deduct	-5.74	
For >250 To 500, Deduct	-8.01	
For >500, Deduct	-10.28	
26 51 19 00-0174 EA 6" Insulated Ceiling, Remodel Housing (Cooper Halo H7RICT).....	83.92	46.15
For >50 To 100, Deduct	-3.83	
For >100 To 250, Deduct	-5.93	
For >250 To 500, Deduct	-8.39	
For >500, Deduct	-10.86	
26 51 19 00-0175 EA 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo H7ICATNB).....	80.73	46.15
For >50 To 100, Deduct	-3.75	
For >100 To 250, Deduct	-5.77	
For >250 To 500, Deduct	-8.07	
For >500, Deduct	-10.38	
26 51 19 00-0176 EA 6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo H7ICTNB).....	80.37	46.15
For >50 To 100, Deduct	-3.74	
For >100 To 250, Deduct	-5.75	
For >250 To 500, Deduct	-8.04	
For >500, Deduct	-10.33	
26 51 19 00-0177 EA 6" Non-IC, New Construction Housing (Cooper Halo H7T).....	83.13	46.15
For >50 To 100, Deduct	-3.81	
For >100 To 250, Deduct	-5.89	
For >250 To 500, Deduct	-8.31	
For >500, Deduct	-10.74	
26 51 19 00-0178 EA 6" Non-IC, Remodel Housing (Cooper Halo H7RT).....	84.63	46.15
For >50 To 100, Deduct	-3.85	
For >100 To 250, Deduct	-5.96	
For >250 To 500, Deduct	-8.46	
For >500, Deduct	-10.96	

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0179 EA 6" Non-IC, New Construction Housing, No Socket Bracket (Cooper Halo H7TNB).....	85.11	46.15
For>50 To 100, Deduct	-3.86	
For>100 To 250, Deduct	-5.99	
For>250 To 500, Deduct	-8.51	
For>500, Deduct	-11.04	
26 51 19 00-0180 EA 6" Non-IC, Chicago Plenum, New Construction/Remodel Housing (Cooper Halo H7TCP).....	108.28	46.15
For>50 To 100, Deduct	-4.44	
For>100 To 250, Deduct	-7.14	
For>250 To 500, Deduct	-10.83	
For>500, Deduct	-14.51	
26 51 19 00-0181 EA 6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo H7UICT).....	102.47	46.15
For>50 To 100, Deduct	-4.29	
For>100 To 250, Deduct	-6.85	
For>250 To 500, Deduct	-10.25	
For>500, Deduct	-13.64	
26 51 19 00-0182 EA 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo H7UICAT).....	103.14	46.15
For>50 To 100, Deduct	-4.31	
For>100 To 250, Deduct	-6.89	
For>250 To 500, Deduct	-10.31	
For>500, Deduct	-13.74	
26 51 19 00-0183 EA 6" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI700AT).....	107.03	46.15
For>50 To 100, Deduct	-4.41	
For>100 To 250, Deduct	-7.08	
For>250 To 500, Deduct	-10.70	
For>500, Deduct	-14.32	
26 51 19 00-0184 EA 6" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI700RAT).....	107.03	46.15
For>50 To 100, Deduct	-4.41	
For>100 To 250, Deduct	-7.08	
For>250 To 500, Deduct	-10.70	
For>500, Deduct	-14.32	
26 51 19 00-0185 EA 6" Insulated Ceiling, New Construction Housing (Cooper Halo EI700).....	107.03	46.15
For>50 To 100, Deduct	-4.41	
For>100 To 250, Deduct	-7.08	
For>250 To 500, Deduct	-10.70	
For>500, Deduct	-14.32	
26 51 19 00-0186 EA 6" Insulated Ceiling, Remodel Housing (Cooper Halo EI700R).....	107.03	46.15
For>50 To 100, Deduct	-4.41	
For>100 To 250, Deduct	-7.08	
For>250 To 500, Deduct	-10.70	
For>500, Deduct	-14.32	
26 51 19 00-0187 EA 6" Insulated Ceiling, Air-Tite New Construction Housing, No Socket Bracket (Cooper Halo EI700ATNB).....	107.03	46.15
For>50 To 100, Deduct	-4.41	
For>100 To 250, Deduct	-7.08	
For>250 To 500, Deduct	-10.70	
For>500, Deduct	-14.32	
26 51 19 00-0188 EA 6" Insulated Ceiling, New Construction Housing, No Socket Bracket (Cooper Halo EI700NB).....	96.86	46.15
For>50 To 100, Deduct	-4.15	
For>100 To 250, Deduct	-6.57	
For>250 To 500, Deduct	-9.69	
For>500, Deduct	-12.80	
26 51 19 00-0189 EA 6" Insulated Ceiling, Universal New Construction Housing (Cooper Halo EI700U).....	96.86	46.15
For>50 To 100, Deduct	-4.15	
For>100 To 250, Deduct	-6.57	
For>250 To 500, Deduct	-9.69	
For>500, Deduct	-12.80	
26 51 19 00-0190 EA 6" Insulated Ceiling, Universal, Air-Tite, New Construction Housing (Cooper Halo EI700UAT).....	96.86	46.15
For>50 To 100, Deduct	-4.15	
For>100 To 250, Deduct	-6.57	
For>250 To 500, Deduct	-9.69	
For>500, Deduct	-12.80	
26 51 19 00-0191 EA 6" Non-IC, New Construction Housing (Cooper Halo ET700).....	96.86	46.15
For>50 To 100, Deduct	-4.15	
For>100 To 250, Deduct	-6.57	
For>250 To 500, Deduct	-9.69	
For>500, Deduct	-12.80	
26 51 19 00-0192 EA 6" Non-IC, Remodel Housing (Cooper Halo ET700R).....	96.86	46.15
For>50 To 100, Deduct	-4.15	
For>100 To 250, Deduct	-6.57	
For>250 To 500, Deduct	-9.69	
For>500, Deduct	-12.80	
26 51 19 00-0193 EA 6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H27ICAT).....	97.60	46.15
For>50 To 100, Deduct	-4.17	
For>100 To 250, Deduct	-6.61	
For>250 To 500, Deduct	-9.76	
For>500, Deduct	-12.91	
26 51 19 00-0194 EA 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H27RICAT).....	109.03	46.15
For>50 To 100, Deduct	-4.46	
For>100 To 250, Deduct	-7.18	
For>250 To 500, Deduct	-10.90	
For>500, Deduct	-14.62	
26 51 19 00-0195 EA 6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo H27ICT).....	97.60	46.15
For>50 To 100, Deduct	-4.17	
For>100 To 250, Deduct	-6.61	
For>250 To 500, Deduct	-9.76	
For>500, Deduct	-12.91	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0196 EA 6" Shallow, Insulated Ceiling, Remodel Housing (Cooper Halo H27RICT).....	105.80	46.15
For >50 To 100, Deduct	-4.38	
For >100 To 250, Deduct	-7.02	
For >250 To 500, Deduct	-10.58	
For >500, Deduct	-14.14	
26 51 19 00-0197 EA 6" Shallow, Non-IC, New Construction Housing (Cooper Halo H27T) .....	92.97	46.15
For >50 To 100, Deduct	-4.05	
For >100 To 250, Deduct	-6.38	
For >250 To 500, Deduct	-9.30	
For >500, Deduct	-12.22	
26 51 19 00-0198 EA 6" Shallow, Non-IC, Remodel Housing (Cooper Halo H27RT) .....	94.09	46.15
For >50 To 100, Deduct	-4.08	
For >100 To 250, Deduct	-6.44	
For >250 To 500, Deduct	-9.41	
For >500, Deduct	-12.38	
26 51 19 00-0199 EA 6" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo EI2700AT) .....	102.08	46.15
For >50 To 100, Deduct	-4.28	
For >100 To 250, Deduct	-6.83	
For >250 To 500, Deduct	-10.21	
For >500, Deduct	-13.58	
26 51 19 00-0200 EA 6" Shallow, Insulated Ceiling, New Construction Housing (Cooper Halo EI2700) .....	102.08	46.15
For >50 To 100, Deduct	-4.28	
For >100 To 250, Deduct	-6.83	
For >250 To 500, Deduct	-10.21	
For >500, Deduct	-13.58	
26 51 19 00-0201 EA 6" Shallow, Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI2700R) .....	102.08	46.15
For >50 To 100, Deduct	-4.28	
For >100 To 250, Deduct	-6.83	
For >250 To 500, Deduct	-10.21	
For >500, Deduct	-13.58	
26 51 19 00-0202 EA 6" Shallow, Non-IC, New Construction Housing (Cooper Halo ET2700) .....	102.08	46.15
For >50 To 100, Deduct	-4.28	
For >100 To 250, Deduct	-6.83	
For >250 To 500, Deduct	-10.21	
For >500, Deduct	-13.58	
26 51 19 00-0203 EA 6" Shallow, Non-IC, Remodel Housing (Cooper Halo ET2700R).....	102.08	46.15
For >50 To 100, Deduct	-4.28	
For >100 To 250, Deduct	-6.83	
For >250 To 500, Deduct	-10.21	
For >500, Deduct	-13.58	
26 51 19 00-0204 EA 6" Retrofit Enclosure, Non-IC, BX Whip (Cooper Halo ML7BXRFK) .....	77.60	21.54
For >50 To 100, Deduct	-2.75	
For >100 To 250, Deduct	-4.69	
For >250 To 500, Deduct	-7.76	
For >500, Deduct	-10.83	
26 51 19 00-0205 EA 6" Retrofit Enclosure, Non-IC, E26 Screw base Interface (Cooper Halo ML7E26RFK).....	79.92	21.54
For >50 To 100, Deduct	-2.81	
For >100 To 250, Deduct	-4.80	
For >250 To 500, Deduct	-7.99	
For >500, Deduct	-11.18	
26 51 19 00-0206 EA 5" LED, Insulated Ceiling, Air-Tite, New Construction Housing (Cooper Halo H550ICAT) .....	87.92	46.15
For >50 To 100, Deduct	-3.93	
For >100 To 250, Deduct	-6.13	
For >250 To 500, Deduct	-8.79	
For >500, Deduct	-11.46	
26 51 19 00-0207 EA 5" LED, Insulated Ceiling, Air-Tite, Remodel Housing (Cooper Halo H550RICAT) .....	88.19	46.15
For >50 To 100, Deduct	-3.94	
For >100 To 250, Deduct	-6.14	
For >250 To 500, Deduct	-8.82	
For >500, Deduct	-11.50	
26 51 19 00-0208 EA 5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo H5ICAT) .....	83.38	46.15
For >50 To 100, Deduct	-3.82	
For >100 To 250, Deduct	-5.90	
For >250 To 500, Deduct	-8.34	
For >500, Deduct	-10.78	
26 51 19 00-0209 EA 5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo H5RICAT) .....	85.74	46.15
For >50 To 100, Deduct	-3.87	
For >100 To 250, Deduct	-6.02	
For >250 To 500, Deduct	-8.57	
For >500, Deduct	-11.13	
26 51 19 00-0210 EA 5" Non-IC, New Construction Housing (Cooper Halo H5T).....	84.97	46.15
For >50 To 100, Deduct	-3.85	
For >100 To 250, Deduct	-5.98	
For >250 To 500, Deduct	-8.50	
For >500, Deduct	-11.02	
26 51 19 00-0211 EA 5" Non-IC, Remodel Housing (Cooper Halo H5RT).....	85.69	46.15
For >50 To 100, Deduct	-3.87	
For >100 To 250, Deduct	-6.02	
For >250 To 500, Deduct	-8.57	
For >500, Deduct	-11.12	
26 51 19 00-0212 EA 5" Insulated Ceiling, Air-Tite New Construction Housing (Cooper Halo EI500AT).....	95.85	46.15
For >50 To 100, Deduct	-4.13	
For >100 To 250, Deduct	-6.52	
For >250 To 500, Deduct	-9.59	
For >500, Deduct	-12.65	

**26 Electrical**  
**26 50 Lighting**  
**26 51 Interior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0213	EA		5" Insulated Ceiling, Air-Tite Remodel Housing (Cooper Halo EI500RAT) .....	96.39	46.15
			<i>For &gt;50 To 100, Deduct</i>	-4.14	
			<i>For &gt;100 To 250, Deduct</i>	-6.55	
			<i>For &gt;250 To 500, Deduct</i>	-9.64	
			<i>For &gt;500, Deduct</i>	-12.73	
26 51 19 00-0214	EA		5" Non-IC, New Construction Housing (Cooper Halo ET500).....	99.12	46.15
			<i>For &gt;50 To 100, Deduct</i>	-4.21	
			<i>For &gt;100 To 250, Deduct</i>	-6.69	
			<i>For &gt;250 To 500, Deduct</i>	-9.91	
			<i>For &gt;500, Deduct</i>	-13.14	
26 51 19 00-0215	EA		5" Non-IC, Remodel Housing (Cooper Halo ET500R) .....	101.04	46.15
			<i>For &gt;50 To 100, Deduct</i>	-4.26	
			<i>For &gt;100 To 250, Deduct</i>	-6.78	
			<i>For &gt;250 To 500, Deduct</i>	-10.10	
			<i>For &gt;500, Deduct</i>	-13.43	
26 51 19 00-0216	EA		5" Shallow, Insulated Ceiling, Air-Tite New Construction (Cooper Halo H251CAT).....	109.44	46.15
			<i>For &gt;50 To 100, Deduct</i>	-4.47	
			<i>For &gt;100 To 250, Deduct</i>	-7.20	
			<i>For &gt;250 To 500, Deduct</i>	-10.94	
			<i>For &gt;500, Deduct</i>	-14.69	
<b>26 51 19 00-0217</b>			<b>Recessed LED Downlights (Maxlite DLR)</b> <small>(26 51 19 00-0108)</small>		
26 51 19 00-0218	EA		4" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR410) .....	196.49	67.68
			<i>For &gt;50 To 100, Deduct</i>	-7.45	
			<i>For &gt;100 To 250, Deduct</i>	-12.36	
			<i>For &gt;250 To 500, Deduct</i>	-19.65	
			<i>For &gt;500, Deduct</i>	-26.94	
26 51 19 00-0219	EA		4" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR415) .....	198.92	67.68
			<i>For &gt;50 To 100, Deduct</i>	-7.51	
			<i>For &gt;100 To 250, Deduct</i>	-12.48	
			<i>For &gt;250 To 500, Deduct</i>	-19.89	
			<i>For &gt;500, Deduct</i>	-27.30	
26 51 19 00-0220	EA		4" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR420) .....	206.23	67.68
			<i>For &gt;50 To 100, Deduct</i>	-7.69	
			<i>For &gt;100 To 250, Deduct</i>	-12.85	
			<i>For &gt;250 To 500, Deduct</i>	-20.62	
			<i>For &gt;500, Deduct</i>	-28.40	
26 51 19 00-0221	EA		6" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR615) .....	191.61	67.68
			<i>For &gt;50 To 100, Deduct</i>	-7.33	
			<i>For &gt;100 To 250, Deduct</i>	-12.12	
			<i>For &gt;250 To 500, Deduct</i>	-19.16	
			<i>For &gt;500, Deduct</i>	-26.20	
26 51 19 00-0222	EA		6" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR620) .....	191.61	67.68
			<i>For &gt;50 To 100, Deduct</i>	-7.33	
			<i>For &gt;100 To 250, Deduct</i>	-12.12	
			<i>For &gt;250 To 500, Deduct</i>	-19.16	
			<i>For &gt;500, Deduct</i>	-26.20	
26 51 19 00-0223	EA		6" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR630) .....	191.61	67.68
			<i>For &gt;50 To 100, Deduct</i>	-7.33	
			<i>For &gt;100 To 250, Deduct</i>	-12.12	
			<i>For &gt;250 To 500, Deduct</i>	-19.16	
			<i>For &gt;500, Deduct</i>	-26.20	
26 51 19 00-0224	EA		8" Diameter, 1,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR810) .....	206.23	67.68
			<i>For &gt;50 To 100, Deduct</i>	-7.69	
			<i>For &gt;100 To 250, Deduct</i>	-12.85	
			<i>For &gt;250 To 500, Deduct</i>	-20.62	
			<i>For &gt;500, Deduct</i>	-28.40	
26 51 19 00-0225	EA		8" Diameter, 1,500 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR815) .....	208.66	67.68
			<i>For &gt;50 To 100, Deduct</i>	-7.75	
			<i>For &gt;100 To 250, Deduct</i>	-12.97	
			<i>For &gt;250 To 500, Deduct</i>	-20.87	
			<i>For &gt;500, Deduct</i>	-28.76	
26 51 19 00-0226	EA		8" Diameter, 2,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR820) .....	213.52	67.68
			<i>For &gt;50 To 100, Deduct</i>	-7.88	
			<i>For &gt;100 To 250, Deduct</i>	-13.21	
			<i>For &gt;250 To 500, Deduct</i>	-21.35	
			<i>For &gt;500, Deduct</i>	-29.49	
26 51 19 00-0227	EA		8" Diameter, 3,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR830) .....	228.13	67.68
			<i>For &gt;50 To 100, Deduct</i>	-8.24	
			<i>For &gt;100 To 250, Deduct</i>	-13.94	
			<i>For &gt;250 To 500, Deduct</i>	-22.81	
			<i>For &gt;500, Deduct</i>	-31.68	
26 51 19 00-0228	EA		8" Diameter, 5,000 Lumens, Recessed LED Downlight Retrofit (MaxLite DLR850) .....	247.62	67.68
			<i>For &gt;50 To 100, Deduct</i>	-8.73	
			<i>For &gt;100 To 250, Deduct</i>	-14.92	
			<i>For &gt;250 To 500, Deduct</i>	-24.76	
			<i>For &gt;500, Deduct</i>	-34.60	
<b>26 51 19 00-0229</b>			<b>Recessed LED Downlight Retrofits And Trim (CREE®)</b> <small>(26 51 19 00-0107)</small>		
<b>26 51 19 00-0230</b>			<b>Recessed LED Downlight Retrofits (CREE®)</b> <small>(26 51 19 00-0229)</small>		
			Note: Dimmable to 5%. For installation in standard recessed IC or non-IC housings. Includes removal of existing lamp from fixture. Excludes housing and disposal of hazardous lamps.		



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0231	EA		4" Diameter, 575 Lumens, Recessed LED Downlight Retrofit (Cree® CR4-575L).....	121.49	
			<i>For &gt;50 To 100, Deduct</i>	-4.00	
			<i>For &gt;100 To 250, Deduct</i>	-7.04	
			<i>For &gt;250 To 500, Deduct</i>	-12.15	
			<i>For &gt;500, Deduct</i>	-17.26	
26 51 19 00-0232	EA		6" Diameter, 625 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-625L).....	108.02	
			<i>For &gt;50 To 100, Deduct</i>	-3.66	
			<i>For &gt;100 To 250, Deduct</i>	-6.36	
			<i>For &gt;250 To 500, Deduct</i>	-10.80	
			<i>For &gt;500, Deduct</i>	-15.24	
26 51 19 00-0233	EA		6" Diameter, 800 Lumens, Recessed LED Downlight Retrofit (Cree® CR6-800L).....	134.95	
			<i>For &gt;50 To 100, Deduct</i>	-4.34	
			<i>For &gt;100 To 250, Deduct</i>	-7.71	
			<i>For &gt;250 To 500, Deduct</i>	-13.50	
			<i>For &gt;500, Deduct</i>	-19.28	
26 51 19 00-0234	EA		6" Diameter, 650 Lumens, Recessed LED Downlight Retrofit (Cree® LR6C-277).....	150.65	
			<i>For &gt;50 To 100, Deduct</i>	-4.73	
			<i>For &gt;100 To 250, Deduct</i>	-8.49	
			<i>For &gt;250 To 500, Deduct</i>	-15.07	
			<i>For &gt;500, Deduct</i>	-21.64	
26 51 19 00-0235	EA		6" Diameter, 1,000 Lumens, Deep Recessed LED Downlight Retrofit (Cree® LR6-10L-XXX-120V-A-DR).....	164.11	
			<i>For &gt;50 To 100, Deduct</i>	-5.06	
			<i>For &gt;100 To 250, Deduct</i>	-9.17	
			<i>For &gt;250 To 500, Deduct</i>	-16.41	
			<i>For &gt;500, Deduct</i>	-23.66	
<b>26 51 19 00-0236</b>			<b>Recessed LED Downlight Retrofits Trim (CREE®)</b> (26 51 19 00-0228)		
			Note: For installation in standard recessed IC or non-IC housings. Excludes housing and lamp.		
26 51 19 00-0237	EA		6" Diameter, Diffuse Anodized Finish Reflector For LED Downlight Retrofits (Cree® CT6AX).....	45.50	10.77
			<i>For &gt;50 To 100, Deduct</i>	-1.71	
			<i>For &gt;100 To 250, Deduct</i>	-2.85	
			<i>For &gt;250 To 500, Deduct</i>	-4.55	
			<i>For &gt;500, Deduct</i>	-6.25	
26 51 19 00-0238	EA		6" Diameter, Diffuse Anodized Finish Reflector With Painted Flange For LED Downlight Retrofits (Cree® LT6AP).....	54.48	10.77
			<i>For &gt;50 To 100, Deduct</i>	-1.94	
			<i>For &gt;100 To 250, Deduct</i>	-3.30	
			<i>For &gt;250 To 500, Deduct</i>	-5.45	
			<i>For &gt;500, Deduct</i>	-7.60	
26 51 19 00-0239	EA		6" Diameter, Flat Black Finish Trim And Reflector For LED Downlight Retrofits (Cree® CT6BB).....	47.75	10.77
			<i>For &gt;50 To 100, Deduct</i>	-1.77	
			<i>For &gt;100 To 250, Deduct</i>	-2.96	
			<i>For &gt;250 To 500, Deduct</i>	-4.78	
			<i>For &gt;500, Deduct</i>	-6.59	
<b>26 51 19 00-0240</b>			<b>Recessed LED Downlight Fixture Housings (CREE®)</b> (26 51 19 00-0229)		
			Note: Excludes lamp and trim.		
26 51 19 00-0241	EA		6" Diameter, IC Rated, Architectural Recessed LED Downlight Fixture Housing (Cree® H6).....	123.08	46.15
			<i>For &gt;50 To 100, Deduct</i>	-4.81	
			<i>For &gt;100 To 250, Deduct</i>	-7.88	
			<i>For &gt;250 To 500, Deduct</i>	-12.31	
			<i>For &gt;500, Deduct</i>	-16.73	
26 51 19 00-0242	EA		6" Diameter, IC Rated, Retrofit Recessed LED Downlight Fixture Housing (Cree® RR6).....	91.65	46.15
			<i>For &gt;50 To 100, Deduct</i>	-4.02	
			<i>For &gt;100 To 250, Deduct</i>	-6.31	
			<i>For &gt;250 To 500, Deduct</i>	-9.17	
			<i>For &gt;500, Deduct</i>	-12.02	
<b>26 51 19 00-0243</b>			<b>Can Retrofit Or Surface Mount, LED Downlights</b> (26 51 19 00-0107)		
26 51 19 00-0244	EA		6" Diameter, 15 Watt, Can Retrofit Or Surface Mount, LED Downlight (Lighting Science® GLP6).....	109.64	42.16
			<i>For &gt;50 To 100, Deduct</i>	-4.32	
			<i>For &gt;100 To 250, Deduct</i>	-7.06	
			<i>For &gt;250 To 500, Deduct</i>	-10.96	
			<i>For &gt;500, Deduct</i>	-14.86	
26 51 19 00-0245	EA		4" Diameter, 7 Watt, Can Retrofit, LED Downlight (Green Creative0 1-811-D).....	91.61	42.16
			<i>For &gt;50 To 100, Deduct</i>	-3.87	
			<i>For &gt;100 To 250, Deduct</i>	-6.16	
			<i>For &gt;250 To 500, Deduct</i>	-9.16	
			<i>For &gt;500, Deduct</i>	-12.16	
26 51 19 00-0246	EA		6" Diameter, 9.5 Watt, Can Retrofit, LED Downlight (Green Creative0 1-808-D).....	91.61	42.16
			<i>For &gt;50 To 100, Deduct</i>	-3.87	
			<i>For &gt;100 To 250, Deduct</i>	-6.16	
			<i>For &gt;250 To 500, Deduct</i>	-9.16	
			<i>For &gt;500, Deduct</i>	-12.16	
26 51 19 00-0247	EA		6" Diameter, 8.9 Watt, Can Retrofit, LED Downlight (Lithonia 6BP).....	150.17	42.16
			<i>For Recessed IC/Non-IC Rated Housing For New Construction, Add</i>	56.46	
			<i>For &gt;50 To 100, Deduct</i>	-5.34	
			<i>For &gt;100 To 250, Deduct</i>	-9.09	
			<i>For &gt;250 To 500, Deduct</i>	-15.02	
			<i>For &gt;500, Deduct</i>	-20.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0248 EA 4" Diameter, 8 Watt, 600 Lumens, Retrofit LED Downlight (Sylvania LED/RT4/550/840) .....	81.54	42.16
For >50 To 100, Deduct	-3.62	
For >100 To 250, Deduct	-5.66	
For >250 To 500, Deduct	-8.15	
For >500, Deduct	-10.65	
26 51 19 00-0249 EA 5" Diameter, 10 Watt, 700 Lumens, Retrofit LED Downlight (Sylvania LED/RT5/6/625/840) .....	88.89	42.16
For >50 To 100, Deduct	-3.80	
For >100 To 250, Deduct	-6.03	
For >250 To 500, Deduct	-8.89	
For >500, Deduct	-11.75	
26 51 19 00-0250 EA 6" Diameter, 800 Lumens, 10 Watt, Retrofit LED Wallwash Downlight (Indy Lighting LRT6-08LM) .....	925.00	42.16
For >50 To 100, Deduct	-24.71	
For >100 To 250, Deduct	-47.83	
For >250 To 500, Deduct	-92.50	
For >500, Deduct	-137.17	
<b>26 51 19 00-0251 Wall Mount LED Cylinder Downlight</b> (26 51 19 00-0001)		
26 51 19 00-0252 EA 9" Diameter, 2,200 Lumens, Wall Mount LED Cylinder Downlight With Semi-Specular Trim (Gotham® EVO® CLED9) .....	391.84	65.50
For >50 To 100, Deduct	-12.26	
For >100 To 250, Deduct	-22.05	
For >250 To 500, Deduct	-39.18	
For >500, Deduct	-56.32	
<b>26 51 19 00-0253 Wall Sconce And Wall Wash LED Fixtures</b> (26 51 19 00-0001)		
<b>26 51 19 00-0254 LED Wall Sconce Fixtures (Hudson Valley Lighting)</b> (26 51 19 00-0253)		
26 51 19 00-0255 EA 2-1/2" Diameter x 15-1/2" High, Polished Nickel, LED Wall Sconce (Hudson Valley Lighting SHAW 1200-PN) .....	542.44	61.53
For >50 To 100, Deduct	-15.87	
For >100 To 250, Deduct	-29.43	
For >250 To 500, Deduct	-54.24	
For >500, Deduct	-79.06	
<b>26 51 19 00-0256 LED Wall Sconce Fixtures (Kichler)</b> (26 51 19 00-0253)		
26 51 19 00-0257 EA 6" High x 11.75" Wide x 3.5" Deep, 900 Lumens, 15 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Kichler 10790NILED) .....	310.25	61.53
For >50 To 100, Deduct	-10.06	
For >100 To 250, Deduct	-17.82	
For >250 To 500, Deduct	-31.03	
For >500, Deduct	-44.23	
<b>26 51 19 00-0258 LED Wall Sconce Fixtures (Metalux)</b> (26 51 19 00-0253)		
26 51 19 00-0259 EA 9.875" High x 7.125" Wide x 3.5" Deep, 9 Watt, White Acrylic Diffuser, Brushed Nickel, LED Wall Sconce (Metalux AFX VNTS071009L30ENBN) .....	178.72	61.53
For >50 To 100, Deduct	-6.78	
For >100 To 250, Deduct	-11.24	
For >250 To 500, Deduct	-17.87	
For >500, Deduct	-24.50	
26 51 19 00-0260 EA 5" LED, Cape Sconce Wall Light, White (AFX CAPW050804L30ENWH) .....	167.92	61.53
For >50 To 100, Deduct	-6.51	
For >100 To 250, Deduct	-10.70	
For >250 To 500, Deduct	-16.79	
For >500, Deduct	-22.88	
<b>26 51 19 00-0261 Concealed Continuous LED Fixtures</b> (26 51 19 00-0001)		
<b>26 51 19 00-0262 Concealed Continuous LED Fixtures (Fraqtir™ S301)</b> (26 51 19 00-0261)		
26 51 19 00-0263 LF Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Driver (Fraqtir™ S301) .....	716.02	7.02
For >50 To 100, Deduct	-18.25	
For >100 To 250, Deduct	-36.15	
For >250 To 500, Deduct	-71.60	
For >500, Deduct	-107.05	
26 51 19 00-0264 LF Fixed Surface Mount, Concealed Continuous LED Fixture With Remote Dimming Driver (Fraqtir™ S301) .....	815.97	7.02
For >50 To 100, Deduct	-20.75	
For >100 To 250, Deduct	-41.15	
For >250 To 500, Deduct	-81.60	
For >500, Deduct	-122.04	
<b>26 51 19 00-0265 Low Bay LED Fixtures</b> (26 51 19 00-0001)		
<b>26 51 19 00-0266 LED Linear Low Bay Fixtures (PlanLED)</b> (26 51 19 00-0265)		
26 51 19 00-0267 EA 4' Length, 23 Watt, LED Linear Low Bay Fixture (PlanLED A1W4) .....	393.57	84.33
For >50 To 100, Deduct	-13.35	
For >100 To 250, Deduct	-23.19	
For >250 To 500, Deduct	-39.36	
For >500, Deduct	-55.52	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0268	EA	4'	Length, 42 Watt, LED Linear Low Bay Fixture (PlanLED A2W4A).....	524.30	84.33
			<i>For &gt;50 To 100, Deduct</i>	-16.62	
			<i>For &gt;100 To 250, Deduct</i>	-29.73	
			<i>For &gt;250 To 500, Deduct</i>	-52.43	
			<i>For &gt;500, Deduct</i>	-75.13	
26 51 19 00-0269	EA	8'	Length, 84 Watt, LED Linear Low Bay Fixture (PlanLED A2W5A).....	860.95	105.41
			<i>For &gt;50 To 100, Deduct</i>	-25.92	
			<i>For &gt;100 To 250, Deduct</i>	-47.44	
			<i>For &gt;250 To 500, Deduct</i>	-86.10	
			<i>For &gt;500, Deduct</i>	-124.75	
<b>26 51 19 00-0270</b>			<b>LED Low Bay Fixtures (CREE®)</b> <small>(26 51 19 00-0265)</small>		
<b>26 51 19 00-0271</b>			<b>LED Low Bay Fixtures (CREE® LS)</b> <small>(26 51 19 00-0270)</small>		
			Note: Includes 120/277 voltage and 22 gauge steel housing assembly. Excludes sensors.		
26 51 19 00-0272	EA	2,500 Lumens, 4'	Length, LED Low Bay Fixture (Cree® LS4-25L-35K-10V) .....	363.71	84.33
			<i>For &gt;50 To 100, Deduct</i>	-12.61	
			<i>For &gt;100 To 250, Deduct</i>	-21.70	
			<i>For &gt;250 To 500, Deduct</i>	-36.37	
			<i>For &gt;500, Deduct</i>	-51.04	
26 51 19 00-0273	EA	2,500 Lumens, 4'	Length, LED Low Bay Fixture (Cree® LS4-25L-50K-10V) .....	386.59	84.33
			<i>For &gt;50 To 100, Deduct</i>	-13.18	
			<i>For &gt;100 To 250, Deduct</i>	-22.84	
			<i>For &gt;250 To 500, Deduct</i>	-38.66	
			<i>For &gt;500, Deduct</i>	-54.47	
26 51 19 00-0274	EA	4,000 Lumens, 4'	Length, LED Low Bay Fixture (Cree® LS4-40L-35K-10V) .....	373.24	84.33
			<i>For &gt;50 To 100, Deduct</i>	-12.84	
			<i>For &gt;100 To 250, Deduct</i>	-22.18	
			<i>For &gt;250 To 500, Deduct</i>	-37.32	
			<i>For &gt;500, Deduct</i>	-52.47	
26 51 19 00-0275	EA	4,000 Lumens, 4'	Length, LED Low Bay Fixture (Cree® LS4-40L-50K-10V) .....	396.13	84.33
			<i>For &gt;50 To 100, Deduct</i>	-13.42	
			<i>For &gt;100 To 250, Deduct</i>	-23.32	
			<i>For &gt;250 To 500, Deduct</i>	-39.61	
			<i>For &gt;500, Deduct</i>	-55.91	
26 51 19 00-0276	EA	5,000 Lumens, 4'	Length, LED Low Bay Fixture (Cree® LS4-50L-35K-10V) .....	413.30	84.33
			<i>For &gt;50 To 100, Deduct</i>	-13.85	
			<i>For &gt;100 To 250, Deduct</i>	-24.18	
			<i>For &gt;250 To 500, Deduct</i>	-41.33	
			<i>For &gt;500, Deduct</i>	-58.48	
26 51 19 00-0277	EA	5,000 Lumens, 4'	Length, LED Low Bay Fixture (Cree® LS4-50L-50K-10V) .....	436.19	84.33
			<i>For &gt;50 To 100, Deduct</i>	-14.42	
			<i>For &gt;100 To 250, Deduct</i>	-25.32	
			<i>For &gt;250 To 500, Deduct</i>	-43.62	
			<i>For &gt;500, Deduct</i>	-61.91	
26 51 19 00-0278	EA	8,000 Lumens, 8'	Length, LED Low Bay Fixture (Cree® LS8-80L-35K-10V) .....	576.23	105.41
			<i>For &gt;50 To 100, Deduct</i>	-18.80	
			<i>For &gt;100 To 250, Deduct</i>	-33.20	
			<i>For &gt;250 To 500, Deduct</i>	-57.62	
			<i>For &gt;500, Deduct</i>	-82.04	
26 51 19 00-0279	EA	8,000 Lumens, 8'	Length, LED Low Bay Fixture (Cree® LS8-80L-50K-10V) .....	618.19	105.41
			<i>For &gt;50 To 100, Deduct</i>	-19.85	
			<i>For &gt;100 To 250, Deduct</i>	-35.30	
			<i>For &gt;250 To 500, Deduct</i>	-61.82	
			<i>For &gt;500, Deduct</i>	-88.34	
26 51 19 00-0280	EA	10,000 Lumens, 8'	Length, LED Low Bay Fixture (Cree® LS8-100L-35K-10V) .....	705.93	105.41
			<i>For &gt;50 To 100, Deduct</i>	-22.04	
			<i>For &gt;100 To 250, Deduct</i>	-39.69	
			<i>For &gt;250 To 500, Deduct</i>	-70.59	
			<i>For &gt;500, Deduct</i>	-101.50	
26 51 19 00-0281	EA	10,000 Lumens, 8'	Length, LED Low Bay Fixture (Cree® LS8-100L-50K-10V) .....	728.81	105.41
			<i>For &gt;50 To 100, Deduct</i>	-22.61	
			<i>For &gt;100 To 250, Deduct</i>	-40.83	
			<i>For &gt;250 To 500, Deduct</i>	-72.88	
			<i>For &gt;500, Deduct</i>	-104.93	
<b>26 51 19 00-0282</b>			<b>LED Low Bay Fixtures (CREE® LN)</b> <small>(26 51 19 00-0270)</small>		
			Note: Includes 120/277 voltage and aluminum housing assembly. Excludes sensors.		
26 51 19 00-0283	EA	3,400 Lumens, 4'	Length, LED Low Bay Fixture (Cree® LN4-34L-35K-10V) .....	787.13	84.33
			<i>For &gt;50 To 100, Deduct</i>	-23.19	
			<i>For &gt;100 To 250, Deduct</i>	-42.87	
			<i>For &gt;250 To 500, Deduct</i>	-78.71	
			<i>For &gt;500, Deduct</i>	-114.56	
26 51 19 00-0284	EA	3,400 Lumens, 4'	Length, LED Low Bay Fixture, Smartcast Technology (Cree® LN4-34L-35K-CMA) .....	882.50	84.33
			<i>For &gt;50 To 100, Deduct</i>	-25.58	
			<i>For &gt;100 To 250, Deduct</i>	-47.64	
			<i>For &gt;250 To 500, Deduct</i>	-88.25	
			<i>For &gt;500, Deduct</i>	-128.86	
<b>26 51 19 00-0285</b>			<b>LED Linear Low Bay Fixtures (CREE® CS)</b> <small>(26 51 19 00-0270)</small>		
			Note: Includes 3,500 or 4,000K color temperature, 120/277 voltage and lightweight polymer housing assembly. Excludes sensors.		

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0286	EA		4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Cree® CS14™).....	761.98	84.33
			<i>For &gt;50 To 100, Deduct</i>	-22.56	
			<i>For &gt;100 To 250, Deduct</i>	-41.61	
			<i>For &gt;250 To 500, Deduct</i>	-76.20	
			<i>For &gt;500, Deduct</i>	-110.78	
26 51 19 00-0287	EA		7,500 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....	947.45	105.41
			<i>For &gt;50 To 100, Deduct</i>	-28.08	
			<i>For &gt;100 To 250, Deduct</i>	-51.76	
			<i>For &gt;250 To 500, Deduct</i>	-94.75	
			<i>For &gt;500, Deduct</i>	-137.73	
26 51 19 00-0288	EA		8,000 Lumens, 8' Length, LED Linear Low Bay Fixture (Cree® CS18™).....	1,196.53	105.41
			<i>For &gt;50 To 100, Deduct</i>	-34.31	
			<i>For &gt;100 To 250, Deduct</i>	-64.22	
			<i>For &gt;250 To 500, Deduct</i>	-119.65	
			<i>For &gt;500, Deduct</i>	-175.09	
<b>26 51 19 00-0289</b>			<b>Accessories For LED Low Bay Fixtures (CREE®) (26 51 19 00-0270)</b>		
26 51 19 00-0290	EA		Continuous Row Through Wiring Kit For 4' Fixtures (Cree® LS4TWK).....	72.17	23.10
			<i>For &gt;50 To 100, Deduct</i>	-2.77	
			<i>For &gt;100 To 250, Deduct</i>	-4.57	
			<i>For &gt;250 To 500, Deduct</i>	-7.22	
			<i>For &gt;500, Deduct</i>	-9.86	
26 51 19 00-0291	EA		Continuous Row Through Wiring Kit For 8' Fixtures (Cree® LS8TWK).....	78.91	23.10
			<i>For &gt;50 To 100, Deduct</i>	-2.94	
			<i>For &gt;100 To 250, Deduct</i>	-4.91	
			<i>For &gt;250 To 500, Deduct</i>	-7.89	
			<i>For &gt;500, Deduct</i>	-10.87	
26 51 19 00-0292	EA		Top Housing Aligner For Continuous Row Installations (Cree® LS-RJ).....	60.94	23.10
			<i>For &gt;50 To 100, Deduct</i>	-2.49	
			<i>For &gt;100 To 250, Deduct</i>	-4.01	
			<i>For &gt;250 To 500, Deduct</i>	-6.09	
			<i>For &gt;500, Deduct</i>	-8.18	
26 51 19 00-0293	EA		Reflector Joint Aligner For Continuous Row Installations (Cree® LS-RFLJ).....	49.73	23.10
			<i>For &gt;50 To 100, Deduct</i>	-2.21	
			<i>For &gt;100 To 250, Deduct</i>	-3.45	
			<i>For &gt;250 To 500, Deduct</i>	-4.97	
			<i>For &gt;500, Deduct</i>	-6.50	
26 51 19 00-0294	EA		Solid Reflector, Pair (Cree® LS4-SR).....	150.70	23.10
			<i>For &gt;50 To 100, Deduct</i>	-4.73	
			<i>For &gt;100 To 250, Deduct</i>	-8.50	
			<i>For &gt;250 To 500, Deduct</i>	-15.07	
			<i>For &gt;500, Deduct</i>	-21.64	
26 51 19 00-0295	EA		Solid Reflector, Pair (Cree® LS8-SR).....	206.81	23.10
			<i>For &gt;50 To 100, Deduct</i>	-6.13	
			<i>For &gt;100 To 250, Deduct</i>	-11.30	
			<i>For &gt;250 To 500, Deduct</i>	-20.68	
			<i>For &gt;500, Deduct</i>	-30.06	
26 51 19 00-0296	EA		5" Cable Canopy With #18/2 SJT Cord, 48" (Cree® AC5-18/2-48-Q14B-JB).....	78.91	23.10
			<i>For &gt;50 To 100, Deduct</i>	-2.94	
			<i>For &gt;100 To 250, Deduct</i>	-4.91	
			<i>For &gt;250 To 500, Deduct</i>	-7.89	
			<i>For &gt;500, Deduct</i>	-10.87	
26 51 19 00-0297	EA		5" Cable Canopy With #18/2 SJT Cord, 72" (Cree® AC5-18/2-72-Q14B-JB).....	110.32	23.10
			<i>For &gt;50 To 100, Deduct</i>	-3.72	
			<i>For &gt;100 To 250, Deduct</i>	-6.48	
			<i>For &gt;250 To 500, Deduct</i>	-11.03	
			<i>For &gt;500, Deduct</i>	-15.59	
26 51 19 00-0298	EA		5" Cable Canopy With #18/5 SJT Cord, 48" (Cree® AC5-18/5-48-Q14B-JB).....	87.87	23.10
			<i>For &gt;50 To 100, Deduct</i>	-3.16	
			<i>For &gt;100 To 250, Deduct</i>	-5.36	
			<i>For &gt;250 To 500, Deduct</i>	-8.79	
			<i>For &gt;500, Deduct</i>	-12.22	
26 51 19 00-0299	EA		5" Cable Canopy With #18/5 SJT Cord, 72" (Cree® AC5-18/5-72-Q14B-JB).....	117.05	23.10
			<i>For &gt;50 To 100, Deduct</i>	-3.89	
			<i>For &gt;100 To 250, Deduct</i>	-6.82	
			<i>For &gt;250 To 500, Deduct</i>	-11.71	
			<i>For &gt;500, Deduct</i>	-16.59	
26 51 19 00-0300	EA		5" Cable Canopy With #18/5 SJT Cord, 96" (Cree® AC5-18/5-96-Q14B-JB).....	123.79	23.10
			<i>For &gt;50 To 100, Deduct</i>	-4.06	
			<i>For &gt;100 To 250, Deduct</i>	-7.15	
			<i>For &gt;250 To 500, Deduct</i>	-12.38	
			<i>For &gt;500, Deduct</i>	-17.61	
26 51 19 00-0301	EA		5" Cable Canopy With #12/3 SJT Cord, 48" (Cree® AC5-12/3-48-Q14B-JB).....	105.82	23.10
			<i>For &gt;50 To 100, Deduct</i>	-3.61	
			<i>For &gt;100 To 250, Deduct</i>	-6.25	
			<i>For &gt;250 To 500, Deduct</i>	-10.58	
			<i>For &gt;500, Deduct</i>	-14.91	
26 51 19 00-0302	EA		5" Cable Canopy With #12/3 SJT Cord, 72" (Cree® AC5-12/3-72-Q14B-JB).....	157.43	23.10
			<i>For &gt;50 To 100, Deduct</i>	-4.90	
			<i>For &gt;100 To 250, Deduct</i>	-8.83	
			<i>For &gt;250 To 500, Deduct</i>	-15.74	
			<i>For &gt;500, Deduct</i>	-22.65	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0303 EA Set Of End Caps, One With Power Feed, One Without (Cree® LN-EC).....	83.39	23.10
For >50 To 100, Deduct	-3.05	
For >100 To 250, Deduct	-5.13	
For >250 To 500, Deduct	-8.34	
For >500, Deduct	-11.55	
26 51 19 00-0304 EA Canopy Kit With Aircraft Cable And Opening For Power Feed (Cree® LN-CK-5-AC).....	101.34	23.10
For >50 To 100, Deduct	-3.50	
For >100 To 250, Deduct	-6.03	
For >250 To 500, Deduct	-10.13	
For >500, Deduct	-14.24	
26 51 19 00-0305 EA Canopy Kit With Aircraft Cable No Opening For Power Feed (Cree® LN-CK-0-AC).....	78.91	23.10
For >50 To 100, Deduct	-2.94	
For >100 To 250, Deduct	-4.91	
For >250 To 500, Deduct	-7.89	
For >500, Deduct	-10.87	
26 51 19 00-0306 EA Emergency 125W Inverter, Ceiling Installed (Cree® ELI-125W).....	1,486.77	56.22
For >50 To 100, Deduct	-39.28	
For >100 To 250, Deduct	-76.45	
For >250 To 500, Deduct	-148.68	
For >500, Deduct	-220.91	
26 51 19 00-0307 EA 120 Volt, Emergency Relay For Use With Generator Power (Cree® EL-SR-120).....	533.10	56.22
For >50 To 100, Deduct	-15.44	
For >100 To 250, Deduct	-28.76	
For >250 To 500, Deduct	-53.31	
For >500, Deduct	-77.86	
<b>26 51 19 00-0308 LED Linear Low Bay Fixtures (Lithonia MSL) (26 51 19 00-0265)</b>		
Note: Includes 3,500K, 4,000K or 5,000K color temperature, 120/277 voltage and steel housing assembly. Excludes sensors.		
26 51 19 00-0309 EA 4,000 Lumens, 4' Length, LED Linear Low Bay Fixture (Lithonia MSL).....	999.29	84.33
For >50 To 100, Deduct	-28.50	
For >100 To 250, Deduct	-53.48	
For >250 To 500, Deduct	-99.93	
For >500, Deduct	-146.38	
<b>26 51 19 00-0310 High Bay LED Fixtures (26 51 19 00-0001)</b>		
<b>26 51 19 00-0311 LED High Bay Fixtures (Columbia Lighting LWS) (26 51 19 00-0310)</b>		
26 51 19 00-0312 EA 16" x 24", 7,909 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-LW-W-EU).....	556.01	154.61
For >50 To 100, Deduct	-21.63	
For >100 To 250, Deduct	-35.53	
For >250 To 500, Deduct	-55.60	
For >500, Deduct	-75.67	
26 51 19 00-0313 EA 16" x 24", 8,526 Lumens, 58.8 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-LW-W-EU).....	556.01	154.61
For >50 To 100, Deduct	-21.63	
For >100 To 250, Deduct	-35.53	
For >250 To 500, Deduct	-55.60	
For >500, Deduct	-75.67	
26 51 19 00-0314 EA 16" x 24", 11,812 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-ML-W-EU).....	615.25	154.61
For >50 To 100, Deduct	-23.11	
For >100 To 250, Deduct	-38.49	
For >250 To 500, Deduct	-61.53	
For >500, Deduct	-84.56	
26 51 19 00-0315 EA 16" x 24", 12,734 Lumens, 82.9 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-ML-W-EU).....	615.25	154.61
For >50 To 100, Deduct	-23.11	
For >100 To 250, Deduct	-38.49	
For >250 To 500, Deduct	-61.53	
For >500, Deduct	-84.56	
26 51 19 00-0316 EA 16" x 24", 14,813 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-HL-W-EU).....	713.97	154.61
For >50 To 100, Deduct	-25.58	
For >100 To 250, Deduct	-43.43	
For >250 To 500, Deduct	-71.40	
For >500, Deduct	-99.37	
26 51 19 00-0317 EA 16" x 24", 15,968 Lumens, 112.5 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-HL-W-EU).....	713.97	154.61
For >50 To 100, Deduct	-25.58	
For >100 To 250, Deduct	-43.43	
For >250 To 500, Deduct	-71.40	
For >500, Deduct	-99.37	
26 51 19 00-0318 EA 16" x 24", 18,714 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-VL-W-EU).....	753.45	154.61
For >50 To 100, Deduct	-26.57	
For >100 To 250, Deduct	-45.40	
For >250 To 500, Deduct	-75.35	
For >500, Deduct	-105.29	
26 51 19 00-0319 EA 16" x 24", 19,511 Lumens, 137.1 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-VL-W-EU).....	753.45	154.61
For >50 To 100, Deduct	-26.57	
For >100 To 250, Deduct	-45.40	
For >250 To 500, Deduct	-75.35	
For >500, Deduct	-105.29	
26 51 19 00-0320 EA 16" x 24", 22,994 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-30-XL-W-EU).....	783.07	154.61
For >50 To 100, Deduct	-27.31	
For >100 To 250, Deduct	-46.88	
For >250 To 500, Deduct	-78.31	
For >500, Deduct	-109.73	

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0321	EA	16" x 24", 24,787 Lumens, 174 Watt, LED Suspended High Bay/Low Bay Fixture (Columbia LWS-50-XL-W-EU).....	783.07	154.61
		<i>For &gt;50 To 100, Deduct</i>	-27.31	
		<i>For &gt;100 To 250, Deduct</i>	-46.88	
		<i>For &gt;250 To 500, Deduct</i>	-78.31	
		<i>For &gt;500, Deduct</i>	-109.73	
<b>26 51 19 00-0322</b>		<b>LED High Bay Fixtures (Cree)</b> <small>(26 51 19 00-0310)</small>		
<b>26 51 19 00-0323</b>		<b>LED High Bay Fixtures (CREE®)</b> <small>(26 51 19 00-0322)</small>		
26 51 19 00-0324	EA	18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-10V).....	955.79	154.61
		<i>For &gt;50 To 100, Deduct</i>	-31.63	
		<i>For &gt;100 To 250, Deduct</i>	-55.52	
		<i>For &gt;250 To 500, Deduct</i>	-95.58	
		<i>For &gt;500, Deduct</i>	-135.64	
26 51 19 00-0325	EA	18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UL-ML).....	1,139.45	154.61
		<i>For &gt;50 To 100, Deduct</i>	-36.22	
		<i>For &gt;100 To 250, Deduct</i>	-64.70	
		<i>For &gt;250 To 500, Deduct</i>	-113.95	
		<i>For &gt;500, Deduct</i>	-163.19	
26 51 19 00-0326	EA	18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-10V).....	1,049.71	154.61
		<i>For &gt;50 To 100, Deduct</i>	-33.97	
		<i>For &gt;100 To 250, Deduct</i>	-60.22	
		<i>For &gt;250 To 500, Deduct</i>	-104.97	
		<i>For &gt;500, Deduct</i>	-149.73	
26 51 19 00-0327	EA	18,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-M-40K-8-UH-ML).....	1,195.56	154.61
		<i>For &gt;50 To 100, Deduct</i>	-37.62	
		<i>For &gt;100 To 250, Deduct</i>	-67.51	
		<i>For &gt;250 To 500, Deduct</i>	-119.56	
		<i>For &gt;500, Deduct</i>	-171.60	
26 51 19 00-0328	EA	24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-10V).....	988.22	154.61
		<i>For &gt;50 To 100, Deduct</i>	-32.44	
		<i>For &gt;100 To 250, Deduct</i>	-57.14	
		<i>For &gt;250 To 500, Deduct</i>	-98.82	
		<i>For &gt;500, Deduct</i>	-140.50	
26 51 19 00-0329	EA	24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UL-ML).....	1,173.11	154.61
		<i>For &gt;50 To 100, Deduct</i>	-37.06	
		<i>For &gt;100 To 250, Deduct</i>	-66.39	
		<i>For &gt;250 To 500, Deduct</i>	-117.31	
		<i>For &gt;500, Deduct</i>	-168.24	
26 51 19 00-0330	EA	24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-10V).....	1,083.36	154.61
		<i>For &gt;50 To 100, Deduct</i>	-34.81	
		<i>For &gt;100 To 250, Deduct</i>	-61.90	
		<i>For &gt;250 To 500, Deduct</i>	-108.34	
		<i>For &gt;500, Deduct</i>	-154.77	
26 51 19 00-0331	EA	24,000 Median Lumens, Universal Mount, LED High Bay Fixture (Cree® CXB-A-UV-H-40K-8-UH-ML).....	1,229.21	154.61
		<i>For &gt;50 To 100, Deduct</i>	-38.46	
		<i>For &gt;100 To 250, Deduct</i>	-69.19	
		<i>For &gt;250 To 500, Deduct</i>	-122.92	
		<i>For &gt;500, Deduct</i>	-176.65	
<b>26 51 19 00-0332</b>		<b>Accessories For LED High Bay Fixtures (CREE®)</b> <small>(26 51 19 00-0322)</small>		
26 51 19 00-0333	EA	15 Amperes, 120 Volt, Straight Blade Plug For LED High Bay Fixtures (Cree® AP-515P).....	72.17	23.10
		<i>For &gt;50 To 100, Deduct</i>	-2.77	
		<i>For &gt;100 To 250, Deduct</i>	-4.57	
		<i>For &gt;250 To 500, Deduct</i>	-7.22	
		<i>For &gt;500, Deduct</i>	-9.86	
26 51 19 00-0334	EA	15 Amperes, 120 Volt, Twist Lock Plug For LED High Bay Fixtures (Cree® AP-L515P).....	72.17	23.10
		<i>For &gt;50 To 100, Deduct</i>	-2.77	
		<i>For &gt;100 To 250, Deduct</i>	-4.57	
		<i>For &gt;250 To 500, Deduct</i>	-7.22	
		<i>For &gt;500, Deduct</i>	-9.86	
26 51 19 00-0335	EA	16" Matte Spun Aluminum Reflector For LED High Bay Fixture (Cree® CXBA16N).....	94.60	23.10
		<i>For &gt;50 To 100, Deduct</i>	-3.33	
		<i>For &gt;100 To 250, Deduct</i>	-5.69	
		<i>For &gt;250 To 500, Deduct</i>	-9.46	
		<i>For &gt;500, Deduct</i>	-13.23	
26 51 19 00-0336	EA	16" Clear Acrylic Reflector For LED High Bay Fixture (Cree® CXBP16).....	139.48	23.10
		<i>For &gt;50 To 100, Deduct</i>	-4.45	
		<i>For &gt;100 To 250, Deduct</i>	-7.94	
		<i>For &gt;250 To 500, Deduct</i>	-13.95	
		<i>For &gt;500, Deduct</i>	-19.96	
26 51 19 00-0337	EA	16" White Acrylic Reflector For LED High Bay Fixture (Cree® CXBW16).....	161.93	23.10
		<i>For &gt;50 To 100, Deduct</i>	-5.01	
		<i>For &gt;100 To 250, Deduct</i>	-9.06	
		<i>For &gt;250 To 500, Deduct</i>	-16.19	
		<i>For &gt;500, Deduct</i>	-23.33	
26 51 19 00-0338	EA	16" Clear Prismatic Conical Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® CL16).....	94.60	23.10
		<i>For &gt;50 To 100, Deduct</i>	-3.33	
		<i>For &gt;100 To 250, Deduct</i>	-5.69	
		<i>For &gt;250 To 500, Deduct</i>	-9.46	
		<i>For &gt;500, Deduct</i>	-13.23	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0339	EA		16" Clear Prismatic Drop Lens For Prismatic And Acrylic Reflectors For LED High Bay Fixtures (Cree® DL16).....	96.86	23.10
			<i>For &gt;50 To 100, Deduct</i>	-3.38	
			<i>For &gt;100 To 250, Deduct</i>	-5.81	
			<i>For &gt;250 To 500, Deduct</i>	-9.69	
			<i>For &gt;500, Deduct</i>	-13.57	
26 51 19 00-0340	EA		16" Wire Guard For Aluminum Reflector For LED High Bay Fixtures (Cree® WG-A).....	72.17	23.10
			<i>For &gt;50 To 100, Deduct</i>	-2.77	
			<i>For &gt;100 To 250, Deduct</i>	-4.57	
			<i>For &gt;250 To 500, Deduct</i>	-7.22	
			<i>For &gt;500, Deduct</i>	-9.86	
26 51 19 00-0341	EA		16" Wire Guard For Prismatic And Acrylic Reflector For LED High Bay Fixtures (Cree® WG-AP).....	76.66	23.10
			<i>For &gt;50 To 100, Deduct</i>	-2.88	
			<i>For &gt;100 To 250, Deduct</i>	-4.80	
			<i>For &gt;250 To 500, Deduct</i>	-7.67	
			<i>For &gt;500, Deduct</i>	-10.54	
26 51 19 00-0342	EA		5' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-5) .....	51.98	23.10
			<i>For &gt;50 To 100, Deduct</i>	-2.26	
			<i>For &gt;100 To 250, Deduct</i>	-3.56	
			<i>For &gt;250 To 500, Deduct</i>	-5.20	
			<i>For &gt;500, Deduct</i>	-6.83	
26 51 19 00-0343	EA		10' Galvanized Safety Cable For LED High Bay Fixtures (Cree® SC-10) .....	54.23	23.10
			<i>For &gt;50 To 100, Deduct</i>	-2.32	
			<i>For &gt;100 To 250, Deduct</i>	-3.67	
			<i>For &gt;250 To 500, Deduct</i>	-5.42	
			<i>For &gt;500, Deduct</i>	-7.17	
<b>26 51 19 00-0344</b>			<b>LED High Bay Fixtures (DLE)</b> <small>(26 51 19 00-0310)</small>		
26 51 19 00-0345	EA		12,000 Lumens, 120 Watt, LED High Bay Fixture (DLE-12-ST/HV).....	1,487.86	154.61
			<i>For &gt;50 To 100, Deduct</i>	-44.93	
			<i>For &gt;100 To 250, Deduct</i>	-82.12	
			<i>For &gt;250 To 500, Deduct</i>	-148.79	
			<i>For &gt;500, Deduct</i>	-215.45	
26 51 19 00-0346	EA		18,000 Lumens, 180 Watt, LED High Bay Fixture (DLE-18-ST/HV).....	1,812.57	154.61
			<i>For &gt;50 To 100, Deduct</i>	-53.04	
			<i>For &gt;100 To 250, Deduct</i>	-98.36	
			<i>For &gt;250 To 500, Deduct</i>	-181.26	
			<i>For &gt;500, Deduct</i>	-264.16	
26 51 19 00-0347	EA		24,000 Lumens, 230 Watt, LED High Bay Fixture (DLE-24-ST/HV).....	2,114.09	154.61
			<i>For &gt;50 To 100, Deduct</i>	-60.58	
			<i>For &gt;100 To 250, Deduct</i>	-113.43	
			<i>For &gt;250 To 500, Deduct</i>	-211.41	
			<i>For &gt;500, Deduct</i>	-309.38	
<b>26 51 19 00-0348</b>			<b>LED High Bay Fixtures (Everlast)</b> <small>(26 51 19 00-0310)</small>		
<b>26 51 19 00-0349</b>			<b>LED High Bay Fixtures (Everlast EL-LED-LG)</b> <small>(26 51 19 00-0348)</small>		
26 51 19 00-0350	EA		13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC).....	1,026.10	154.61
			<i>For &gt;50 To 100, Deduct</i>	-33.38	
			<i>For &gt;100 To 250, Deduct</i>	-59.04	
			<i>For &gt;250 To 500, Deduct</i>	-102.61	
			<i>For &gt;500, Deduct</i>	-146.18	
26 51 19 00-0351	EA		13,500 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO) .....	1,080.92	154.61
			<i>For &gt;50 To 100, Deduct</i>	-34.75	
			<i>For &gt;100 To 250, Deduct</i>	-61.78	
			<i>For &gt;250 To 500, Deduct</i>	-108.09	
			<i>For &gt;500, Deduct</i>	-154.41	
26 51 19 00-0352	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16) .....	971.28	154.61
			<i>For &gt;50 To 100, Deduct</i>	-32.01	
			<i>For &gt;100 To 250, Deduct</i>	-56.29	
			<i>For &gt;250 To 500, Deduct</i>	-97.13	
			<i>For &gt;500, Deduct</i>	-137.96	
26 51 19 00-0353	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22) .....	994.47	154.61
			<i>For &gt;50 To 100, Deduct</i>	-32.59	
			<i>For &gt;100 To 250, Deduct</i>	-57.45	
			<i>For &gt;250 To 500, Deduct</i>	-99.45	
			<i>For &gt;500, Deduct</i>	-141.44	
26 51 19 00-0354	EA		17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AC).....	1,120.98	154.61
			<i>For &gt;50 To 100, Deduct</i>	-35.75	
			<i>For &gt;100 To 250, Deduct</i>	-63.78	
			<i>For &gt;250 To 500, Deduct</i>	-112.10	
			<i>For &gt;500, Deduct</i>	-160.42	
26 51 19 00-0355	EA		17,500 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AO) .....	1,215.87	154.61
			<i>For &gt;50 To 100, Deduct</i>	-38.13	
			<i>For &gt;100 To 250, Deduct</i>	-68.52	
			<i>For &gt;250 To 500, Deduct</i>	-121.59	
			<i>For &gt;500, Deduct</i>	-174.65	
26 51 19 00-0356	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL16) .....	1,070.38	154.61
			<i>For &gt;50 To 100, Deduct</i>	-34.49	
			<i>For &gt;100 To 250, Deduct</i>	-61.25	
			<i>For &gt;250 To 500, Deduct</i>	-107.04	
			<i>For &gt;500, Deduct</i>	-152.83	

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0357	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LG, AL22) .....	1,152.61	154.61
			<i>For &gt;50 To 100, Deduct</i>	-36.55	
			<i>For &gt;100 To 250, Deduct</i>	-65.36	
			<i>For &gt;250 To 500, Deduct</i>	-115.26	
			<i>For &gt;500, Deduct</i>	-165.16	
26 51 19 00-0358	EA		34,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30) .....	1,648.11	154.61
			<i>For &gt;50 To 100, Deduct</i>	-48.93	
			<i>For &gt;100 To 250, Deduct</i>	-90.14	
			<i>For &gt;250 To 500, Deduct</i>	-164.81	
			<i>For &gt;500, Deduct</i>	-239.49	
26 51 19 00-0359	EA		43,000 Lumens, 400 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30) .....	1,795.71	154.61
			<i>For &gt;50 To 100, Deduct</i>	-52.62	
			<i>For &gt;100 To 250, Deduct</i>	-97.52	
			<i>For &gt;250 To 500, Deduct</i>	-179.57	
			<i>For &gt;500, Deduct</i>	-261.63	
26 51 19 00-0360	EA		66,000 Lumens, 600 Watt, LED High Bay Fixture (Everlast EL-LED-LG-HW, AL30) .....	2,217.41	154.61
			<i>For &gt;50 To 100, Deduct</i>	-63.17	
			<i>For &gt;100 To 250, Deduct</i>	-118.60	
			<i>For &gt;250 To 500, Deduct</i>	-221.74	
			<i>For &gt;500, Deduct</i>	-324.88	
<b>26 51 19 00-0361 LED High Bay Fixtures (Everlast EL-LED-CS) <small>(26 51 19 00-0348)</small></b>					
26 51 19 00-0362	EA		5,000 Lumens, 50 Watt, LED High Bay Fixture (Everlast EL-LED-CS).....	667.66	154.61
			<i>For &gt;50 To 100, Deduct</i>	-24.42	
			<i>For &gt;100 To 250, Deduct</i>	-41.11	
			<i>For &gt;250 To 500, Deduct</i>	-66.77	
			<i>For &gt;500, Deduct</i>	-92.42	
26 51 19 00-0363	EA		10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-CS) .....	952.30	154.61
			<i>For &gt;50 To 100, Deduct</i>	-31.54	
			<i>For &gt;100 To 250, Deduct</i>	-55.35	
			<i>For &gt;250 To 500, Deduct</i>	-95.23	
			<i>For &gt;500, Deduct</i>	-135.11	
26 51 19 00-0364	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-CS) .....	1,078.81	154.61
			<i>For &gt;50 To 100, Deduct</i>	-34.70	
			<i>For &gt;100 To 250, Deduct</i>	-61.67	
			<i>For &gt;250 To 500, Deduct</i>	-107.88	
			<i>For &gt;500, Deduct</i>	-154.09	
26 51 19 00-0365	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-CS) .....	1,226.41	154.61
			<i>For &gt;50 To 100, Deduct</i>	-38.39	
			<i>For &gt;100 To 250, Deduct</i>	-69.05	
			<i>For &gt;250 To 500, Deduct</i>	-122.64	
			<i>For &gt;500, Deduct</i>	-176.23	
26 51 19 00-0366	EA		30,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-CS) .....	1,321.29	154.61
			<i>For &gt;50 To 100, Deduct</i>	-40.76	
			<i>For &gt;100 To 250, Deduct</i>	-73.79	
			<i>For &gt;250 To 500, Deduct</i>	-132.13	
			<i>For &gt;500, Deduct</i>	-190.46	
<b>26 51 19 00-0367 LED High Bay Fixtures (Everlast EL-LED-HB-LG) <small>(26 51 19 00-0348)</small></b>					
26 51 19 00-0368	EA		10,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG).....	857.42	154.61
			<i>For &gt;50 To 100, Deduct</i>	-29.17	
			<i>For &gt;100 To 250, Deduct</i>	-50.60	
			<i>For &gt;250 To 500, Deduct</i>	-85.74	
			<i>For &gt;500, Deduct</i>	-120.88	
26 51 19 00-0369	EA		15,000 Lumens, 150 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG).....	910.13	154.61
			<i>For &gt;50 To 100, Deduct</i>	-30.48	
			<i>For &gt;100 To 250, Deduct</i>	-53.24	
			<i>For &gt;250 To 500, Deduct</i>	-91.01	
			<i>For &gt;500, Deduct</i>	-128.79	
26 51 19 00-0370	EA		20,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-HB-LG).....	983.93	154.61
			<i>For &gt;50 To 100, Deduct</i>	-32.33	
			<i>For &gt;100 To 250, Deduct</i>	-56.93	
			<i>For &gt;250 To 500, Deduct</i>	-98.39	
			<i>For &gt;500, Deduct</i>	-139.86	
<b>26 51 19 00-0371 LED High Bay Fixtures (Everlast EL-LED-LHB) <small>(26 51 19 00-0348)</small></b>					
26 51 19 00-0372	EA		13,000 Lumens, 100 Watt, LED High Bay Fixture (Everlast EL-LED-LHB).....	870.07	154.61
			<i>For &gt;50 To 100, Deduct</i>	-29.48	
			<i>For &gt;100 To 250, Deduct</i>	-51.23	
			<i>For &gt;250 To 500, Deduct</i>	-87.01	
			<i>For &gt;500, Deduct</i>	-122.78	
26 51 19 00-0373	EA		26,000 Lumens, 200 Watt, LED High Bay Fixture (Everlast EL-LED-LHB).....	1,057.73	154.61
			<i>For &gt;50 To 100, Deduct</i>	-34.17	
			<i>For &gt;100 To 250, Deduct</i>	-60.62	
			<i>For &gt;250 To 500, Deduct</i>	-105.77	
			<i>For &gt;500, Deduct</i>	-150.93	
26 51 19 00-0374	EA		39,000 Lumens, 300 Watt, LED High Bay Fixture (Everlast EL-LED-LHB).....	1,300.21	154.61
			<i>For &gt;50 To 100, Deduct</i>	-40.24	
			<i>For &gt;100 To 250, Deduct</i>	-72.74	
			<i>For &gt;250 To 500, Deduct</i>	-130.02	
			<i>For &gt;500, Deduct</i>	-187.30	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 51 19 00-0375 LED High Bay Fixtures (Lithonia IBG)</b> <small>(26 51 19 00-0310)</small>		
26 51 19 00-0376 EA 8,000 Lumens, 48 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 8000LM SEF ACL GND MVOLT) .....	463.05	151.79
For >50 To 100, Deduct	-17.35	
For >100 To 250, Deduct	-28.93	
For >250 To 500, Deduct	-46.31	
For >500, Deduct	-63.68	
26 51 19 00-0377 EA 12,000 Lumens, 76 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 12000LM SEF ACL GND MVOLT) .....	478.59	151.79
For >50 To 100, Deduct	-17.74	
For >100 To 250, Deduct	-29.70	
For >250 To 500, Deduct	-47.86	
For >500, Deduct	-66.02	
26 51 19 00-0378 EA 15,000 Lumens, 93 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 15000LM SEF ACL GND MVOLT) .....	513.56	151.79
For >50 To 100, Deduct	-18.61	
For >100 To 250, Deduct	-31.45	
For >250 To 500, Deduct	-51.36	
For >500, Deduct	-71.26	
26 51 19 00-0379 EA 18,000 Lumens, 105 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 18000LM SEF ACL GND MVOLT) .....	568.77	151.79
For >50 To 100, Deduct	-19.99	
For >100 To 250, Deduct	-34.21	
For >250 To 500, Deduct	-56.88	
For >500, Deduct	-79.54	
26 51 19 00-0380 EA 24,000 Lumens, 144 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 24000LM SEF ACL GND MVOLT) .....	613.72	151.79
For >50 To 100, Deduct	-21.12	
For >100 To 250, Deduct	-36.46	
For >250 To 500, Deduct	-61.37	
For >500, Deduct	-86.29	
26 51 19 00-0381 EA 30,000 Lumens, 178 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 30000LM SEF ACL GND MVOLT) .....	719.38	151.79
For >50 To 100, Deduct	-23.76	
For >100 To 250, Deduct	-41.74	
For >250 To 500, Deduct	-71.94	
For >500, Deduct	-102.13	
26 51 19 00-0382 EA 36,000 Lumens, 218 Watt, 25.6" Length, LED High Bay Fixture (Lithonia IBG 36000LM SEF ACL GND MVOLT) .....	854.28	151.79
For >50 To 100, Deduct	-27.13	
For >100 To 250, Deduct	-48.49	
For >250 To 500, Deduct	-85.43	
For >500, Deduct	-122.37	
26 51 19 00-0383 EA 48,000 Lumens, 284 Watt, 47.29" Length, LED High Bay Fixture (Lithonia IBG 48000LM SEF ACL GND MVOLT) .....	1,223.37	154.61
For >50 To 100, Deduct	-38.31	
For >100 To 250, Deduct	-68.90	
For >250 To 500, Deduct	-122.34	
For >500, Deduct	-175.78	
<b>26 51 19 00-0384 LED High Bay Fixtures (Lithonia IBL)</b> <small>(26 51 19 00-0310)</small>		
26 51 19 00-0385 EA 9,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 9L) .....	687.47	154.61
For >50 To 100, Deduct	-24.92	
For >100 To 250, Deduct	-42.10	
For >250 To 500, Deduct	-68.75	
For >500, Deduct	-95.39	
26 51 19 00-0386 EA 12,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 12L) .....	736.83	154.61
For >50 To 100, Deduct	-26.15	
For >100 To 250, Deduct	-44.57	
For >250 To 500, Deduct	-73.68	
For >500, Deduct	-102.79	
26 51 19 00-0387 EA 18,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 18L) .....	870.11	154.61
For >50 To 100, Deduct	-29.48	
For >100 To 250, Deduct	-51.24	
For >250 To 500, Deduct	-87.01	
For >500, Deduct	-122.79	
26 51 19 00-0388 EA 24,000 Lumens, 45" Length, LED High Bay Fixture (Lithonia IBL 24L) .....	923.42	154.61
For >50 To 100, Deduct	-30.82	
For >100 To 250, Deduct	-53.90	
For >250 To 500, Deduct	-92.34	
For >500, Deduct	-130.78	
<b>26 51 19 00-0389 LED High Bay Fixtures (Metalux SSLED)</b> <small>(26 51 19 00-0310)</small>		
26 51 19 00-0390 EA 12,000 Lumens, 80 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-12-M-UNV-L840-CD1U) .....	800.78	154.61
For >50 To 100, Deduct	-27.75	
For >100 To 250, Deduct	-47.77	
For >250 To 500, Deduct	-80.08	
For >500, Deduct	-112.39	
26 51 19 00-0391 EA 15,000 Lumens, 100 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-15-M-UNV-L840-CD1U) .....	820.09	154.61
For >50 To 100, Deduct	-28.23	
For >100 To 250, Deduct	-48.73	
For >250 To 500, Deduct	-82.01	
For >500, Deduct	-115.28	
26 51 19 00-0392 EA 18,000 Lumens, 120 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-18-M-UNV-L840-CD1U) .....	827.87	154.61
For >50 To 100, Deduct	-28.43	
For >100 To 250, Deduct	-49.12	
For >250 To 500, Deduct	-82.79	
For >500, Deduct	-116.45	

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0393	EA		24,000 Lumens, 160 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-24-M-UNV-L840-CD1U).....	901.92	154.61
			<i>For &gt;50 To 100, Deduct</i>	-30.28	
			<i>For &gt;100 To 250, Deduct</i>	-52.83	
			<i>For &gt;250 To 500, Deduct</i>	-90.19	
			<i>For &gt;500, Deduct</i>	-127.56	
26 51 19 00-0394	EA		30,000 Lumens, 200 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-30-M-UNV-L840-CD1U).....	988.17	154.61
			<i>For &gt;50 To 100, Deduct</i>	-32.43	
			<i>For &gt;100 To 250, Deduct</i>	-57.14	
			<i>For &gt;250 To 500, Deduct</i>	-98.82	
			<i>For &gt;500, Deduct</i>	-140.50	
26 51 19 00-0395	EA		36,000 Lumens, 240 Watt, 5000K, LED Round High Bay Fixture (Metalux SSLED-LD5-36-M-UNV-L840-CD1U).....	1,020.54	154.61
			<i>For &gt;50 To 100, Deduct</i>	-33.24	
			<i>For &gt;100 To 250, Deduct</i>	-58.76	
			<i>For &gt;250 To 500, Deduct</i>	-102.05	
			<i>For &gt;500, Deduct</i>	-145.35	
26 51 19 00-0396			<b>LED High Bay Fixtures (PlanLED)</b> (26 51 19 00-0310)		
26 51 19 00-0397			<b>LED High Bay Fixtures (PlanLED LUNA)</b> (26 51 19 00-0396)		
			Note: Includes aluminum alloy chassis.		
26 51 19 00-0398	EA		7,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN70).....	1,000.80	154.61
			<i>For &gt;50 To 100, Deduct</i>	-32.75	
			<i>For &gt;100 To 250, Deduct</i>	-57.77	
			<i>For &gt;250 To 500, Deduct</i>	-100.08	
			<i>For &gt;500, Deduct</i>	-142.39	
26 51 19 00-0399	EA		9,800 Lumens, LED High Bay Fixture (PlanLED LUNA LN98).....	1,118.88	154.61
			<i>For &gt;50 To 100, Deduct</i>	-35.70	
			<i>For &gt;100 To 250, Deduct</i>	-63.67	
			<i>For &gt;250 To 500, Deduct</i>	-111.89	
			<i>For &gt;500, Deduct</i>	-160.10	
26 51 19 00-0400	EA		13,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN130).....	1,289.66	154.61
			<i>For &gt;50 To 100, Deduct</i>	-39.97	
			<i>For &gt;100 To 250, Deduct</i>	-72.21	
			<i>For &gt;250 To 500, Deduct</i>	-128.97	
			<i>For &gt;500, Deduct</i>	-185.72	
26 51 19 00-0401	EA		16,000 Lumens, LED High Bay Fixture (PlanLED LUNA LN160).....	1,456.24	154.61
			<i>For &gt;50 To 100, Deduct</i>	-44.14	
			<i>For &gt;100 To 250, Deduct</i>	-80.54	
			<i>For &gt;250 To 500, Deduct</i>	-145.62	
			<i>For &gt;500, Deduct</i>	-210.71	
26 51 19 00-0402			<b>LED High Bay Fixtures (PlanLED IBL)</b> (26 51 19 00-0396)		
			Note: Includes aluminum alloy chassis.		
26 51 19 00-0403	EA		13,650 Lumens, 130 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 130W).....	1,085.14	154.61
			<i>For 480 Volt, Add</i>	59.16	
			<i>For &gt;50 To 100, Deduct</i>	-34.86	
			<i>For &gt;100 To 250, Deduct</i>	-61.99	
			<i>For &gt;250 To 500, Deduct</i>	-108.51	
			<i>For &gt;500, Deduct</i>	-155.04	
26 51 19 00-0404	EA		21,000 Lumens, 200 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 200W).....	1,496.30	154.61
			<i>For 480 Volt, Add</i>	74.97	
			<i>For &gt;50 To 100, Deduct</i>	-45.14	
			<i>For &gt;100 To 250, Deduct</i>	-82.55	
			<i>For &gt;250 To 500, Deduct</i>	-149.63	
			<i>For &gt;500, Deduct</i>	-216.71	
26 51 19 00-0405	EA		42,000 Lumens, 400 Watt, 46.5" Length, LED Indirect High Bay Fixture (PlanLED IBL 400W).....	2,628.57	154.61
			<i>For 480 Volt, Add</i>	118.95	
			<i>For &gt;50 To 100, Deduct</i>	-73.44	
			<i>For &gt;100 To 250, Deduct</i>	-139.16	
			<i>For &gt;250 To 500, Deduct</i>	-262.86	
			<i>For &gt;500, Deduct</i>	-386.56	
26 51 19 00-0406			<b>LED High Bay Fixtures (PlanLED SEGA)</b> (26 51 19 00-0396)		
			Note: Includes aluminum alloy chassis.		
26 51 19 00-0407	EA		10,400 Lumens, 80 Watt, LED High Bay Fixture (PlanLED SEGA SE080).....	863.75	154.61
			<i>For 0 To 10 Volt Dimming, Add</i>	91.12	
			<i>For &gt;50 To 100, Deduct</i>	-29.32	
			<i>For &gt;100 To 250, Deduct</i>	-50.92	
			<i>For &gt;250 To 500, Deduct</i>	-86.38	
			<i>For &gt;500, Deduct</i>	-121.83	
26 51 19 00-0408	EA		13,000 Lumens, 100 Watt, LED High Bay Fixture (PlanLED SEGA SE100).....	920.68	154.61
			<i>For 0 To 10 Volt Dimming, Add</i>	91.12	
			<i>For &gt;50 To 100, Deduct</i>	-30.75	
			<i>For &gt;100 To 250, Deduct</i>	-53.76	
			<i>For &gt;250 To 500, Deduct</i>	-92.07	
			<i>For &gt;500, Deduct</i>	-130.37	
26 51 19 00-0409	EA		16,900 Lumens, 130 Watt, LED High Bay Fixture (PlanLED SEGA SE130).....	1,116.77	154.61
			<i>For 0 To 10 Volt Dimming, Add</i>	91.12	
			<i>For &gt;50 To 100, Deduct</i>	-35.65	
			<i>For &gt;100 To 250, Deduct</i>	-63.57	
			<i>For &gt;250 To 500, Deduct</i>	-111.68	
			<i>For &gt;500, Deduct</i>	-159.79	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0410 EA 20,800 Lumens, 160 Watt, LED High Bay Fixture (PlanLED SEGA SE160) .....	1,258.04	154.61
For 0 To 10 Volt Dimming, Add	91.12	
For >50 To 100, Deduct	-39.18	
For >100 To 250, Deduct	-70.63	
For >250 To 500, Deduct	-125.80	
For >500, Deduct	-180.98	
26 51 19 00-0411 EA 50,000 Lumens, 400 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE400).....	2,299.64	154.61
For >50 To 100, Deduct	-65.22	
For >100 To 250, Deduct	-122.71	
For >250 To 500, Deduct	-229.96	
For >500, Deduct	-337.22	
26 51 19 00-0412 EA 57,040 Lumens, 500 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE500).....	2,485.19	154.61
For >50 To 100, Deduct	-69.86	
For >100 To 250, Deduct	-131.99	
For >250 To 500, Deduct	-248.52	
For >500, Deduct	-365.05	
26 51 19 00-0413 EA 80,000 Lumens, 640 Watt, Array, LED High Bay Fixture (PlanLED SEGA SE640).....	3,762.60	154.61
For >50 To 100, Deduct	-101.80	
For >100 To 250, Deduct	-195.86	
For >250 To 500, Deduct	-376.26	
For >500, Deduct	-556.66	
 26 51 19 00-0414 Wet/Hazardous Location, LED Fixtures (26 51 19 00-0001)		
26 51 19 00-0415 Wet Location, LED Fixtures (26 51 19 00-0414)		
26 51 19 00-0416 Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM) (26 51 19 00-0415)		
Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 19 00-0417 EA 3,531 Lumens, 29 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM3L).....	2,326.32	118.07
For Ceiling Mount, Add	19.83	
For Quick Clip Mounting Option, Add	29.15	
For Frosted Lens, Add	62.70	
For Warm White Color Rendering, Add	80.71	
For Stanchion Mount, Add	135.26	
For Wall Mount, Add	149.73	
For Polycarbonate Lens, Add	116.20	
For Teflon Coated Lens, Add	133.07	
For 480 Volt, Add	190.09	
For >50 To 100, Deduct	-63.08	
For >100 To 250, Deduct	-121.24	
For >250 To 500, Deduct	-232.63	
For >500, Deduct	-344.03	
26 51 19 00-0418 EA 5,335 Lumens, 43 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM5L).....	2,373.87	126.49
For Ceiling Mount, Add	19.83	
For Quick Clip Mounting Option, Add	29.15	
For Frosted Lens, Add	62.70	
For Warm White Color Rendering, Add	80.71	
For Stanchion Mount, Add	135.26	
For Wall Mount, Add	149.73	
For Polycarbonate Lens, Add	116.20	
For Teflon Coated Lens, Add	133.07	
For 480 Volt, Add	190.09	
For >50 To 100, Deduct	-64.62	
For >100 To 250, Deduct	-123.96	
For >250 To 500, Deduct	-237.39	
For >500, Deduct	-350.81	
26 51 19 00-0419 EA 7,195 Lumens, 62 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM7L).....	2,676.42	134.93
For Ceiling Mount, Add	19.83	
For Quick Clip Mounting Option, Add	29.15	
For Frosted Lens, Add	62.70	
For Warm White Color Rendering, Add	80.71	
For Stanchion Mount, Add	135.26	
For Wall Mount, Add	149.73	
For Polycarbonate Lens, Add	116.20	
For Teflon Coated Lens, Add	133.07	
For 480 Volt, Add	190.09	
For >50 To 100, Deduct	-72.53	
For >100 To 250, Deduct	-139.44	
For >250 To 500, Deduct	-267.64	
For >500, Deduct	-395.84	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0420	EA		9,266 Lumens, 85 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM9L).....	3,212.97	143.37
			<i>For Ceiling Mount, Add</i>	19.83	
			<i>For Quick Clip Mounting Option, Add</i>	29.15	
			<i>For Frosted Lens, Add</i>	62.70	
			<i>For Warm White Color Rendering, Add</i>	80.71	
			<i>For Stanchion Mount, Add</i>	135.26	
			<i>For Wall Mount, Add</i>	149.73	
			<i>For Polycarbonate Lens, Add</i>	116.20	
			<i>For Teflon Coated Lens, Add</i>	133.07	
			<i>For 480 Volt, Add</i>	190.09	
			<i>For &gt;50 To 100, Deduct</i>	-86.30	
			<i>For &gt;100 To 250, Deduct</i>	-166.62	
			<i>For &gt;250 To 500, Deduct</i>	-321.30	
			<i>For &gt;500, Deduct</i>	-475.97	
26 51 19 00-0421	EA		11,440 Lumens, 113 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L).....	4,083.78	151.79
			<i>For Ceiling Mount, Add</i>	19.83	
			<i>For Quick Clip Mounting Option, Add</i>	29.15	
			<i>For Frosted Lens, Add</i>	62.70	
			<i>For Warm White Color Rendering, Add</i>	80.71	
			<i>For Stanchion Mount, Add</i>	135.26	
			<i>For Wall Mount, Add</i>	149.73	
			<i>For Polycarbonate Lens, Add</i>	116.20	
			<i>For Teflon Coated Lens, Add</i>	133.07	
			<i>For 480 Volt, Add</i>	190.09	
			<i>For &gt;50 To 100, Deduct</i>	-108.42	
			<i>For &gt;100 To 250, Deduct</i>	-210.51	
			<i>For &gt;250 To 500, Deduct</i>	-408.38	
			<i>For &gt;500, Deduct</i>	-606.24	
26 51 19 00-0422	EA		13,226 Lumens, 131 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM11L).....	5,354.21	156.01
			<i>For Ceiling Mount, Add</i>	19.83	
			<i>For Quick Clip Mounting Option, Add</i>	29.15	
			<i>For Frosted Lens, Add</i>	62.70	
			<i>For Warm White Color Rendering, Add</i>	80.71	
			<i>For Stanchion Mount, Add</i>	135.26	
			<i>For Wall Mount, Add</i>	149.73	
			<i>For Polycarbonate Lens, Add</i>	116.20	
			<i>For Teflon Coated Lens, Add</i>	133.07	
			<i>For 480 Volt, Add</i>	190.09	
			<i>For &gt;50 To 100, Deduct</i>	-140.36	
			<i>For &gt;100 To 250, Deduct</i>	-274.21	
			<i>For &gt;250 To 500, Deduct</i>	-535.42	
			<i>For &gt;500, Deduct</i>	-796.63	
26 51 19 00-0423	EA		18,793 Lumens, 168 Watt, Pendant Mount, Wet Location, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Champ® Pro PVM17L).....	6,192.07	160.23
			<i>For Ceiling Mount, Add</i>	19.83	
			<i>For Quick Clip Mounting Option, Add</i>	29.15	
			<i>For Frosted Lens, Add</i>	62.70	
			<i>For Warm White Color Rendering, Add</i>	80.71	
			<i>For Stanchion Mount, Add</i>	135.26	
			<i>For Wall Mount, Add</i>	149.73	
			<i>For Polycarbonate Lens, Add</i>	116.20	
			<i>For Teflon Coated Lens, Add</i>	133.07	
			<i>For 480 Volt, Add</i>	190.09	
			<i>For &gt;50 To 100, Deduct</i>	-161.48	
			<i>For &gt;100 To 250, Deduct</i>	-316.28	
			<i>For &gt;250 To 500, Deduct</i>	-619.21	
			<i>For &gt;500, Deduct</i>	-922.13	
26 51 19 00-0424			<b>Wet Location, NEMA 4X, LED Floodlight (Cooper Champ® Pro PFM)</b> <small>(26 51 19 00-0415)</small>		
			Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 19 00-0425	EA		5,183 Lumens, 45 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM5L).....	2,105.23	126.49
			<i>For Bolt-On Visor, Add</i>	107.94	
			<i>For Bolt-On Wire Guard, Add</i>	222.02	
			<i>For 480 Volt, Add</i>	190.09	
			<i>For Warm White Color Rendering, Add</i>	80.71	
			<i>For &gt;50 To 100, Deduct</i>	-57.90	
			<i>For &gt;100 To 250, Deduct</i>	-110.53	
			<i>For &gt;250 To 500, Deduct</i>	-210.52	
			<i>For &gt;500, Deduct</i>	-310.51	
26 51 19 00-0426	EA		7,095 Lumens, 62 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM7L).....	3,083.46	134.93
			<i>For Bolt-On Visor, Add</i>	107.94	
			<i>For Bolt-On Wire Guard, Add</i>	222.02	
			<i>For 480 Volt, Add</i>	190.09	
			<i>For Warm White Color Rendering, Add</i>	80.71	
			<i>For &gt;50 To 100, Deduct</i>	-82.71	
			<i>For &gt;100 To 250, Deduct</i>	-159.80	
			<i>For &gt;250 To 500, Deduct</i>	-308.35	
			<i>For &gt;500, Deduct</i>	-456.90	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0427 EA 9,132 Lumens, 79 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM9L).....	3,397.18	143.37
For Bolt-On Visor, Add	107.94	
For Bolt-On Wire Guard, Add	222.02	
For 480 Volt, Add	190.09	
For Warm White Color Rendering, Add	80.71	
For >50 To 100, Deduct	-90.90	
For >100 To 250, Deduct	-175.83	
For >250 To 500, Deduct	-339.72	
For >500, Deduct	-503.60	
26 51 19 00-0428 EA 11,107 Lumens, 99 Watt, Yoke Mount, Wet Location, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® Pro PFM11L).....	3,894.53	151.79
For Bolt-On Visor, Add	107.94	
For Bolt-On Wire Guard, Add	222.02	
For 480 Volt, Add	190.09	
For Warm White Color Rendering, Add	80.71	
For >50 To 100, Deduct	-103.69	
For >100 To 250, Deduct	-201.05	
For >250 To 500, Deduct	-389.45	
For >500, Deduct	-577.85	
<b>26 51 19 00-0429 Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2L)</b> <small>(26 51 19 00-0415)</small>		
Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 51 19 00-0430 EA 1,400 Lumens, 25 Watt, Pendant Mount, Wet Location, NEMA 4X, Low Bay, LED Fixture (Cooper Vaporgard™ Pro P2LC).....	1,473.85	118.07
For 12/24 Volt DC Driver, Add	30.68	
For Frosted Lens, Add	62.70	
For 55 Degree Ambient Suitability (AC Only), Add	41.77	
For Warm White Color Rendering, Add	80.71	
For Ceiling Mount, Add	95.31	
For Wall Mount, Add	138.23	
For Teflon Coated Lens, Add	133.07	
For Wall Mount With Junction Box, Add	200.80	
For >50 To 100, Deduct	-41.77	
For >100 To 250, Deduct	-78.61	
For >250 To 500, Deduct	-147.39	
For >500, Deduct	-216.16	
<b>26 51 19 00-0431 Vaportight, LED Fixtures</b> <small>(26 51 19 00-0414)</small>		
<b>26 51 19 00-0432 General Distribution, Vaportight, LED Fixtures (Metalux)</b> <small>(26 51 19 00-0431)</small>		
26 51 19 00-0433 EA 2', 2,000 Lumens, 16 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-G-UNV-L850-CD1-U) .....	367.29	67.47
For >50 To 100, Deduct	-11.99	
For >100 To 250, Deduct	-21.18	
For >250 To 500, Deduct	-36.73	
For >500, Deduct	-52.28	
26 51 19 00-0434 EA 2', 3,000 Lumens, 24 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-G-UNV-L850-CD1-U) .....	382.64	67.47
For >50 To 100, Deduct	-12.38	
For >100 To 250, Deduct	-21.94	
For >250 To 500, Deduct	-38.26	
For >500, Deduct	-54.58	
26 51 19 00-0435 EA 2', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-G-UNV-L850-CD1-U) .....	413.35	67.47
For >50 To 100, Deduct	-13.15	
For >100 To 250, Deduct	-23.48	
For >250 To 500, Deduct	-41.34	
For >500, Deduct	-59.19	
26 51 19 00-0436 EA 4', 4,000 Lumens, 32 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-G-UNV-L850-CD1-U) .....	374.26	84.33
For >50 To 100, Deduct	-12.87	
For >100 To 250, Deduct	-22.23	
For >250 To 500, Deduct	-37.43	
For >500, Deduct	-52.63	
26 51 19 00-0437 EA 4', 6,000 Lumens, 51 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-G-UNV-L850-CD1-U) .....	418.30	84.33
For >50 To 100, Deduct	-13.97	
For >100 To 250, Deduct	-24.43	
For >250 To 500, Deduct	-41.83	
For >500, Deduct	-59.23	
26 51 19 00-0438 EA 4', 8,000 Lumens, 67 Watt, 120-277 Volt, Dimming, General Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-G-UNV-L850-CD1-U) .....	579.62	84.33
For >50 To 100, Deduct	-18.00	
For >100 To 250, Deduct	-32.49	
For >250 To 500, Deduct	-57.96	
For >500, Deduct	-83.43	
<b>26 51 19 00-0439 Wide Distribution, Vaportight, LED Fixtures (Metalux)</b> <small>(26 51 19 00-0431)</small>		

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0440	EA	2'	2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-W-UNV-L850-CD1-U) .....	398.00	67.47
			<i>For &gt;50 To 100, Deduct</i> .....	-12.76	
			<i>For &gt;100 To 250, Deduct</i> .....	-22.71	
			<i>For &gt;250 To 500, Deduct</i> .....	-39.80	
			<i>For &gt;500, Deduct</i> .....	-56.89	
26 51 19 00-0441	EA	2'	3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-W-UNV-L850-CD1-U) .....	413.35	67.47
			<i>For &gt;50 To 100, Deduct</i> .....	-13.15	
			<i>For &gt;100 To 250, Deduct</i> .....	-23.48	
			<i>For &gt;250 To 500, Deduct</i> .....	-41.34	
			<i>For &gt;500, Deduct</i> .....	-59.19	
26 51 19 00-0442	EA	2'	4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-W-UNV-L850-CD1-U) .....	444.05	67.47
			<i>For &gt;50 To 100, Deduct</i> .....	-13.91	
			<i>For &gt;100 To 250, Deduct</i> .....	-25.01	
			<i>For &gt;250 To 500, Deduct</i> .....	-44.41	
			<i>For &gt;500, Deduct</i> .....	-63.80	
26 51 19 00-0443	EA	4'	4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-W-UNV-L850-CD1-U) .....	518.21	84.33
			<i>For &gt;50 To 100, Deduct</i> .....	-16.47	
			<i>For &gt;100 To 250, Deduct</i> .....	-29.42	
			<i>For &gt;250 To 500, Deduct</i> .....	-51.82	
			<i>For &gt;500, Deduct</i> .....	-74.22	
26 51 19 00-0444	EA	4'	6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-W-UNV-L850-CD1-U) .....	579.62	84.33
			<i>For &gt;50 To 100, Deduct</i> .....	-18.00	
			<i>For &gt;100 To 250, Deduct</i> .....	-32.49	
			<i>For &gt;250 To 500, Deduct</i> .....	-57.96	
			<i>For &gt;500, Deduct</i> .....	-83.43	
26 51 19 00-0445	EA	4'	8,000 Lumens, 70 Watt, 120-277 Volt, Dimming, Wide Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-W-UNV-L850-CD1-U) .....	641.03	84.33
			<i>For &gt;50 To 100, Deduct</i> .....	-19.54	
			<i>For &gt;100 To 250, Deduct</i> .....	-35.57	
			<i>For &gt;250 To 500, Deduct</i> .....	-64.10	
			<i>For &gt;500, Deduct</i> .....	-92.64	
<b>26 51 19 00-0446</b>			<b>Parking Garage Distribution, Vaportight, LED Fixtures (Metalux)</b> <small>(26 51 19 00-0431)</small>		
26 51 19 00-0447	EA	2'	2,000 Lumens, 17 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-2-P-UNV-L850-CD1-U) .....	398.00	67.47
			<i>For &gt;50 To 100, Deduct</i> .....	-12.76	
			<i>For &gt;100 To 250, Deduct</i> .....	-22.71	
			<i>For &gt;250 To 500, Deduct</i> .....	-39.80	
			<i>For &gt;500, Deduct</i> .....	-56.89	
26 51 19 00-0448	EA	2'	3,000 Lumens, 25 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-3-P-UNV-L850-CD1-U) .....	414.52	67.47
			<i>For &gt;50 To 100, Deduct</i> .....	-13.17	
			<i>For &gt;100 To 250, Deduct</i> .....	-23.54	
			<i>For &gt;250 To 500, Deduct</i> .....	-41.45	
			<i>For &gt;500, Deduct</i> .....	-59.37	
26 51 19 00-0449	EA	2'	4,000 Lumens, 34 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 2VT3-LD5-4-P-UNV-L850-CD1-U) .....	444.05	67.47
			<i>For &gt;50 To 100, Deduct</i> .....	-13.91	
			<i>For &gt;100 To 250, Deduct</i> .....	-25.01	
			<i>For &gt;250 To 500, Deduct</i> .....	-44.41	
			<i>For &gt;500, Deduct</i> .....	-63.80	
26 51 19 00-0450	EA	4'	4,000 Lumens, 31 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-4-P-UNV-L850-CD1-U) .....	518.21	84.33
			<i>For &gt;50 To 100, Deduct</i> .....	-16.47	
			<i>For &gt;100 To 250, Deduct</i> .....	-29.42	
			<i>For &gt;250 To 500, Deduct</i> .....	-51.82	
			<i>For &gt;500, Deduct</i> .....	-74.22	
26 51 19 00-0451	EA	4'	6,000 Lumens, 49 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-6-P-UNV-L850-CD1-U) .....	579.62	84.33
			<i>For &gt;50 To 100, Deduct</i> .....	-18.00	
			<i>For &gt;100 To 250, Deduct</i> .....	-32.49	
			<i>For &gt;250 To 500, Deduct</i> .....	-57.96	
			<i>For &gt;500, Deduct</i> .....	-83.43	
26 51 19 00-0452	EA	4'	8,000 Lumens, 69 Watt, 120-277 Volt, Dimming, Parking Garage Distribution, Vaportight Industrial LED Fixture (Metalux 4VT3-LD5-8-P-UNV-L850-CD1-U) .....	641.03	84.33
			<i>For &gt;50 To 100, Deduct</i> .....	-19.54	
			<i>For &gt;100 To 250, Deduct</i> .....	-35.57	
			<i>For &gt;250 To 500, Deduct</i> .....	-64.10	
			<i>For &gt;500, Deduct</i> .....	-92.64	
<b>26 51 19 00-0453</b>			<b>Ceiling Mounted LED Fixtures</b> <small>(26 51 19 00-0001)</small>		
<b>26 51 19 00-0454</b>			<b>Ceiling Mounted, LED Drum Fixtures (Enertron)</b> <small>(26 51 19 00-0453)</small>		
26 51 19 00-0455	EA	11"	Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X611-30) .....	142.02	56.22
			<i>For &gt;50 To 100, Deduct</i> .....	-5.66	
			<i>For &gt;100 To 250, Deduct</i> .....	-9.21	
			<i>For &gt;250 To 500, Deduct</i> .....	-14.20	
			<i>For &gt;500, Deduct</i> .....	-19.19	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0456 EA 11" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X611-30) .....	147.74	56.22
For >50 To 100, Deduct	-5.80	
For >100 To 250, Deduct	-9.50	
For >250 To 500, Deduct	-14.77	
For >500, Deduct	-20.05	
26 51 19 00-0457 EA 11" Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X611-30) .....	153.47	56.22
For >50 To 100, Deduct	-5.95	
For >100 To 250, Deduct	-9.78	
For >250 To 500, Deduct	-15.35	
For >500, Deduct	-20.91	
26 51 19 00-0458 EA 11" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X611-30) .....	159.20	56.22
For >50 To 100, Deduct	-6.09	
For >100 To 250, Deduct	-10.07	
For >250 To 500, Deduct	-15.92	
For >500, Deduct	-21.77	
26 51 19 00-0459 EA 14" Diameter, 530 Lumens, 7 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X614-30) .....	156.39	61.84
For >50 To 100, Deduct	-6.23	
For >100 To 250, Deduct	-10.14	
For >250 To 500, Deduct	-15.64	
For >500, Deduct	-21.14	
26 51 19 00-0460 EA 14" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X614-30) .....	162.12	61.84
For >50 To 100, Deduct	-6.37	
For >100 To 250, Deduct	-10.43	
For >250 To 500, Deduct	-16.21	
For >500, Deduct	-22.00	
26 51 19 00-0461 EA 14" Diameter, 1,590 Lumens, 14 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X614-30) .....	167.85	61.84
For >50 To 100, Deduct	-6.52	
For >100 To 250, Deduct	-10.71	
For >250 To 500, Deduct	-16.79	
For >500, Deduct	-22.86	
26 51 19 00-0462 EA 14" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X614-30) .....	173.57	61.84
For >50 To 100, Deduct	-6.66	
For >100 To 250, Deduct	-11.00	
For >250 To 500, Deduct	-17.36	
For >500, Deduct	-23.72	
26 51 19 00-0463 EA 14" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X614-30) .....	185.03	61.84
For >50 To 100, Deduct	-6.95	
For >100 To 250, Deduct	-11.57	
For >250 To 500, Deduct	-18.50	
For >500, Deduct	-25.44	
26 51 19 00-0464 EA 11" Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X611-35) .....	142.02	56.22
For >50 To 100, Deduct	-5.66	
For >100 To 250, Deduct	-9.21	
For >250 To 500, Deduct	-14.20	
For >500, Deduct	-19.19	
26 51 19 00-0465 EA 11" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X611-35) .....	147.74	56.22
For >50 To 100, Deduct	-5.80	
For >100 To 250, Deduct	-9.50	
For >250 To 500, Deduct	-14.77	
For >500, Deduct	-20.05	
26 51 19 00-0466 EA 11" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X611-35) .....	153.47	56.22
For >50 To 100, Deduct	-5.95	
For >100 To 250, Deduct	-9.78	
For >250 To 500, Deduct	-15.35	
For >500, Deduct	-20.91	
26 51 19 00-0467 EA 11" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X611-35) .....	159.20	56.22
For >50 To 100, Deduct	-6.09	
For >100 To 250, Deduct	-10.07	
For >250 To 500, Deduct	-15.92	
For >500, Deduct	-21.77	
26 51 19 00-0468 EA 14" Diameter, 530 Lumens, 7 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X614-35) .....	156.39	61.84
For >50 To 100, Deduct	-6.23	
For >100 To 250, Deduct	-10.14	
For >250 To 500, Deduct	-15.64	
For >500, Deduct	-21.14	
26 51 19 00-0469 EA 14" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X614-35) .....	162.12	61.84
For >50 To 100, Deduct	-6.37	
For >100 To 250, Deduct	-10.43	
For >250 To 500, Deduct	-16.21	
For >500, Deduct	-22.00	
26 51 19 00-0470 EA 14" Diameter, 1,590 Lumens, 14 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED3X614-35) .....	167.85	61.84
For >50 To 100, Deduct	-6.52	
For >100 To 250, Deduct	-10.71	
For >250 To 500, Deduct	-16.79	
For >500, Deduct	-22.86	
26 51 19 00-0471 EA 14" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X614-35) .....	173.57	61.84
For >50 To 100, Deduct	-6.66	
For >100 To 250, Deduct	-11.00	
For >250 To 500, Deduct	-17.36	
For >500, Deduct	-23.72	
26 51 19 00-0472 EA 14" Diameter, 3,180 Lumens, 24 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED6X614-30) .....	185.03	61.84
For >50 To 100, Deduct	-6.95	
For >100 To 250, Deduct	-11.57	
For >250 To 500, Deduct	-18.50	
For >500, Deduct	-25.44	

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0473 EA 11" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X611-40) .....	142.02	56.22
For>50 To 100, Deduct	-5.66	
For>100 To 250, Deduct	-9.21	
For>250 To 500, Deduct	-14.20	
For>500, Deduct	-19.19	
26 51 19 00-0474 EA 11" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X611-40) .....	147.74	56.22
For>50 To 100, Deduct	-5.80	
For>100 To 250, Deduct	-9.50	
For>250 To 500, Deduct	-14.77	
For>500, Deduct	-20.05	
26 51 19 00-0475 EA 11" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X611-40) .....	153.47	56.22
For>50 To 100, Deduct	-5.95	
For>100 To 250, Deduct	-9.78	
For>250 To 500, Deduct	-15.35	
For>500, Deduct	-20.91	
26 51 19 00-0476 EA 11" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X611-40) .....	159.20	56.22
For>50 To 100, Deduct	-6.09	
For>100 To 250, Deduct	-10.07	
For>250 To 500, Deduct	-15.92	
For>500, Deduct	-21.77	
26 51 19 00-0477 EA 14" Diameter, 550 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X614-40) .....	156.39	61.84
For>50 To 100, Deduct	-6.23	
For>100 To 250, Deduct	-10.14	
For>250 To 500, Deduct	-15.64	
For>500, Deduct	-21.14	
26 51 19 00-0478 EA 14" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X614-40) .....	162.12	61.84
For>50 To 100, Deduct	-6.37	
For>100 To 250, Deduct	-10.43	
For>250 To 500, Deduct	-16.21	
For>500, Deduct	-22.00	
26 51 19 00-0479 EA 14" Diameter, 1,650 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X614-40) .....	167.85	61.84
For>50 To 100, Deduct	-6.52	
For>100 To 250, Deduct	-10.71	
For>250 To 500, Deduct	-16.79	
For>500, Deduct	-22.86	
26 51 19 00-0480 EA 14" Diameter, 2,200 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X614-40) .....	173.57	61.84
For>50 To 100, Deduct	-6.66	
For>100 To 250, Deduct	-11.00	
For>250 To 500, Deduct	-17.36	
For>500, Deduct	-23.72	
26 51 19 00-0481 EA 14" Diameter, 3,300 Lumens, 24 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED6X614-40) .....	185.03	61.84
For>50 To 100, Deduct	-6.95	
For>100 To 250, Deduct	-11.57	
For>250 To 500, Deduct	-18.50	
For>500, Deduct	-25.44	
26 51 19 00-0482 EA 11" Diameter, 560 Lumens, 7 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED1X611-50) .....	142.02	56.22
For>50 To 100, Deduct	-5.66	
For>100 To 250, Deduct	-9.21	
For>250 To 500, Deduct	-14.20	
For>500, Deduct	-19.19	
26 51 19 00-0483 EA 11" Diameter, 1,120 Lumens, 10 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED2X611-50) .....	147.74	56.22
For>50 To 100, Deduct	-5.80	
For>100 To 250, Deduct	-9.50	
For>250 To 500, Deduct	-14.77	
For>500, Deduct	-20.05	
26 51 19 00-0484 EA 11" Diameter, 1,680 Lumens, 14 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED3X611-50) .....	153.47	56.22
For>50 To 100, Deduct	-5.95	
For>100 To 250, Deduct	-9.78	
For>250 To 500, Deduct	-15.35	
For>500, Deduct	-20.91	
26 51 19 00-0485 EA 11" Diameter, 2,240 Lumens, 17 Watt, 5000K CCT, LED Drum Fixture (Enertron 10LED4X611-50) .....	159.20	56.22
For>50 To 100, Deduct	-6.09	
For>100 To 250, Deduct	-10.07	
For>250 To 500, Deduct	-15.92	
For>500, Deduct	-21.77	
26 51 19 00-0486 EA 14" Diameter, 560 Lumens, 7 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X614-40) .....	156.39	61.84
For>50 To 100, Deduct	-6.23	
For>100 To 250, Deduct	-10.14	
For>250 To 500, Deduct	-15.64	
For>500, Deduct	-21.14	
26 51 19 00-0487 EA 14" Diameter, 1,120 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X614-40) .....	162.12	61.84
For>50 To 100, Deduct	-6.37	
For>100 To 250, Deduct	-10.43	
For>250 To 500, Deduct	-16.21	
For>500, Deduct	-22.00	
26 51 19 00-0488 EA 14" Diameter, 1,680 Lumens, 14 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED3X614-40) .....	167.85	61.84
For>50 To 100, Deduct	-6.52	
For>100 To 250, Deduct	-10.71	
For>250 To 500, Deduct	-16.79	
For>500, Deduct	-22.86	
26 51 19 00-0489 EA 14" Diameter, 2,240 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X614-40) .....	173.57	61.84
For>50 To 100, Deduct	-6.66	
For>100 To 250, Deduct	-11.00	
For>250 To 500, Deduct	-17.36	
For>500, Deduct	-23.72	



	<b>Electrical</b>	<b>26</b>
	<b>Lighting</b>	<b>26 50</b>
	<b>Interior Lighting</b>	<b>26 51</b>

26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0490	EA	14" Diameter, 3,360 Lumens, 24 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED6X614-40)	185.03	61.84	
		<i>For &gt;50 To 100, Deduct</i>	-6.95		
		<i>For &gt;100 To 250, Deduct</i>	-11.57		
		<i>For &gt;250 To 500, Deduct</i>	-18.50		
		<i>For &gt;500, Deduct</i>	-25.44		
26 51 19 00-0491	EA	19" Diameter, 1,060 Lumens, 10 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-30)	192.35	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.34		
		<i>For &gt;100 To 250, Deduct</i>	-12.15		
		<i>For &gt;250 To 500, Deduct</i>	-19.24		
		<i>For &gt;500, Deduct</i>	-26.32		
26 51 19 00-0492	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X619-30)	205.37	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.66		
		<i>For &gt;100 To 250, Deduct</i>	-12.80		
		<i>For &gt;250 To 500, Deduct</i>	-20.54		
		<i>For &gt;500, Deduct</i>	-28.28		
26 51 19 00-0493	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X12S19-30)	202.19	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.58		
		<i>For &gt;100 To 250, Deduct</i>	-12.64		
		<i>For &gt;250 To 500, Deduct</i>	-20.22		
		<i>For &gt;500, Deduct</i>	-27.80		
26 51 19 00-0494	EA	19" Diameter, 1,910 Lumens, 18 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-30)	202.14	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.58		
		<i>For &gt;100 To 250, Deduct</i>	-12.64		
		<i>For &gt;250 To 500, Deduct</i>	-20.21		
		<i>For &gt;500, Deduct</i>	-27.79		
26 51 19 00-0495	EA	19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30)	216.82	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.95		
		<i>For &gt;100 To 250, Deduct</i>	-13.37		
		<i>For &gt;250 To 500, Deduct</i>	-21.68		
		<i>For &gt;500, Deduct</i>	-29.99		
26 51 19 00-0496	EA	19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)	212.08	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.83		
		<i>For &gt;100 To 250, Deduct</i>	-13.13		
		<i>For &gt;250 To 500, Deduct</i>	-21.21		
		<i>For &gt;500, Deduct</i>	-29.28		
26 51 19 00-0497	EA	19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30)	231.92	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-8.33		
		<i>For &gt;100 To 250, Deduct</i>	-14.13		
		<i>For &gt;250 To 500, Deduct</i>	-23.19		
		<i>For &gt;500, Deduct</i>	-32.26		
26 51 19 00-0498	EA	19" Diameter, 3,820 Lumens, 32 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-30)	225.46	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-8.17		
		<i>For &gt;100 To 250, Deduct</i>	-13.80		
		<i>For &gt;250 To 500, Deduct</i>	-22.55		
		<i>For &gt;500, Deduct</i>	-31.29		
26 51 19 00-0499	EA	19" Diameter, 4,240 Lumens, 32 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-30)	225.52	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-8.17		
		<i>For &gt;100 To 250, Deduct</i>	-13.81		
		<i>For &gt;250 To 500, Deduct</i>	-22.55		
		<i>For &gt;500, Deduct</i>	-31.30		
26 51 19 00-0500	EA	19" Diameter, 1,060 Lumens, 10 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12S19-35)	192.35	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.34		
		<i>For &gt;100 To 250, Deduct</i>	-12.15		
		<i>For &gt;250 To 500, Deduct</i>	-19.24		
		<i>For &gt;500, Deduct</i>	-26.32		
26 51 19 00-0501	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X619-35)	205.37	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.66		
		<i>For &gt;100 To 250, Deduct</i>	-12.80		
		<i>For &gt;250 To 500, Deduct</i>	-20.54		
		<i>For &gt;500, Deduct</i>	-28.28		
26 51 19 00-0502	EA	19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35)	202.19	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.58		
		<i>For &gt;100 To 250, Deduct</i>	-12.64		
		<i>For &gt;250 To 500, Deduct</i>	-20.22		
		<i>For &gt;500, Deduct</i>	-27.80		
26 51 19 00-0503	EA	19" Diameter, 1,910 Lumens, 18 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED1X12H19-35)	202.14	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.58		
		<i>For &gt;100 To 250, Deduct</i>	-12.64		
		<i>For &gt;250 To 500, Deduct</i>	-20.21		
		<i>For &gt;500, Deduct</i>	-27.79		
26 51 19 00-0504	EA	19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30)	216.82	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.95		
		<i>For &gt;100 To 250, Deduct</i>	-13.37		
		<i>For &gt;250 To 500, Deduct</i>	-21.68		
		<i>For &gt;500, Deduct</i>	-29.99		
26 51 19 00-0505	EA	19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30)	212.08	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-7.83		
		<i>For &gt;100 To 250, Deduct</i>	-13.13		
		<i>For &gt;250 To 500, Deduct</i>	-21.21		
		<i>For &gt;500, Deduct</i>	-29.28		
26 51 19 00-0506	EA	19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30)	231.92	66.76	
		<i>For &gt;50 To 100, Deduct</i>	-8.33		
		<i>For &gt;100 To 250, Deduct</i>	-14.13		
		<i>For &gt;250 To 500, Deduct</i>	-23.19		
		<i>For &gt;500, Deduct</i>	-32.26		

**26 Electrical**  
**26 50 Lighting**  
**26 51 Interior Lighting**



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0507	EA 19" Diameter, 3,820 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12H19-35).....	225.46	66.76
	<i>For &gt;50 To 100, Deduct</i>	-8.17	
	<i>For &gt;100 To 250, Deduct</i>	-13.80	
	<i>For &gt;250 To 500, Deduct</i>	-22.55	
	<i>For &gt;500, Deduct</i>	-31.29	
26 51 19 00-0508	EA 19" Diameter, 4,240 Lumens, 32 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED4X12S19-35).....	225.52	66.76
	<i>For &gt;50 To 100, Deduct</i>	-8.17	
	<i>For &gt;100 To 250, Deduct</i>	-13.81	
	<i>For &gt;250 To 500, Deduct</i>	-22.55	
	<i>For &gt;500, Deduct</i>	-31.30	
26 51 19 00-0509	EA 19" Diameter, 1,100 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-40).....	192.35	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.34	
	<i>For &gt;100 To 250, Deduct</i>	-12.15	
	<i>For &gt;250 To 500, Deduct</i>	-19.24	
	<i>For &gt;500, Deduct</i>	-26.32	
26 51 19 00-0510	EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	205.37	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.66	
	<i>For &gt;100 To 250, Deduct</i>	-12.80	
	<i>For &gt;250 To 500, Deduct</i>	-20.54	
	<i>For &gt;500, Deduct</i>	-28.28	
26 51 19 00-0511	EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	202.19	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.58	
	<i>For &gt;100 To 250, Deduct</i>	-12.64	
	<i>For &gt;250 To 500, Deduct</i>	-20.22	
	<i>For &gt;500, Deduct</i>	-27.80	
26 51 19 00-0512	EA 19" Diameter, 2,000 Lumens, 18 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-40).....	202.14	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.58	
	<i>For &gt;100 To 250, Deduct</i>	-12.64	
	<i>For &gt;250 To 500, Deduct</i>	-20.21	
	<i>For &gt;500, Deduct</i>	-27.79	
26 51 19 00-0513	EA 19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....	216.82	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.95	
	<i>For &gt;100 To 250, Deduct</i>	-13.37	
	<i>For &gt;250 To 500, Deduct</i>	-21.68	
	<i>For &gt;500, Deduct</i>	-29.99	
26 51 19 00-0514	EA 19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30).....	212.08	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.83	
	<i>For &gt;100 To 250, Deduct</i>	-13.13	
	<i>For &gt;250 To 500, Deduct</i>	-21.21	
	<i>For &gt;500, Deduct</i>	-29.28	
26 51 19 00-0515	EA 19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30).....	231.92	66.76
	<i>For &gt;50 To 100, Deduct</i>	-8.33	
	<i>For &gt;100 To 250, Deduct</i>	-14.13	
	<i>For &gt;250 To 500, Deduct</i>	-23.19	
	<i>For &gt;500, Deduct</i>	-32.26	
26 51 19 00-0516	EA 19" Diameter, 4,000 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-40).....	225.46	66.76
	<i>For &gt;50 To 100, Deduct</i>	-8.17	
	<i>For &gt;100 To 250, Deduct</i>	-13.80	
	<i>For &gt;250 To 500, Deduct</i>	-22.55	
	<i>For &gt;500, Deduct</i>	-31.29	
26 51 19 00-0517	EA 19" Diameter, 4,400 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-40).....	225.52	66.76
	<i>For &gt;50 To 100, Deduct</i>	-8.17	
	<i>For &gt;100 To 250, Deduct</i>	-13.81	
	<i>For &gt;250 To 500, Deduct</i>	-22.55	
	<i>For &gt;500, Deduct</i>	-31.30	
26 51 19 00-0518	EA 19" Diameter, 1,120 Lumens, 10 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12S19-50).....	192.35	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.34	
	<i>For &gt;100 To 250, Deduct</i>	-12.15	
	<i>For &gt;250 To 500, Deduct</i>	-19.24	
	<i>For &gt;500, Deduct</i>	-26.32	
26 51 19 00-0519	EA 19" Diameter, 2,120 Lumens, 17 Watt, 3500K CCT, LED Drum Fixture (Enertron 10LED2X12S19-35).....	205.37	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.66	
	<i>For &gt;100 To 250, Deduct</i>	-12.80	
	<i>For &gt;250 To 500, Deduct</i>	-20.54	
	<i>For &gt;500, Deduct</i>	-28.28	
26 51 19 00-0520	EA 19" Diameter, 2,240 Lumens, 17 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12S19-50).....	202.19	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.58	
	<i>For &gt;100 To 250, Deduct</i>	-12.64	
	<i>For &gt;250 To 500, Deduct</i>	-20.22	
	<i>For &gt;500, Deduct</i>	-27.80	
26 51 19 00-0521	EA 19" Diameter, 2,010 Lumens, 18 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED1X12H19-50).....	202.14	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.58	
	<i>For &gt;100 To 250, Deduct</i>	-12.64	
	<i>For &gt;250 To 500, Deduct</i>	-20.21	
	<i>For &gt;500, Deduct</i>	-27.79	
26 51 19 00-0522	EA 19" Diameter, 3,180 Lumens, 24 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED6X619-30).....	216.82	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.95	
	<i>For &gt;100 To 250, Deduct</i>	-13.37	
	<i>For &gt;250 To 500, Deduct</i>	-21.68	
	<i>For &gt;500, Deduct</i>	-29.99	
26 51 19 00-0523	EA 19" Diameter, 3,160 Lumens, 25 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED3X12S19-30).....	212.08	66.76
	<i>For &gt;50 To 100, Deduct</i>	-7.83	
	<i>For &gt;100 To 250, Deduct</i>	-13.13	
	<i>For &gt;250 To 500, Deduct</i>	-21.21	
	<i>For &gt;500, Deduct</i>	-29.28	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 19 00-0524	EA		19" Diameter, 4,240 Lumens, 31 Watt, 3000K CCT, LED Drum Fixture (Enertron 10LED8X619-30) .....	231.92	66.76
			<i>For &gt;50 To 100, Deduct</i>	-8.33	
			<i>For &gt;100 To 250, Deduct</i>	-14.13	
			<i>For &gt;250 To 500, Deduct</i>	-23.19	
			<i>For &gt;500, Deduct</i>	-32.26	
26 51 19 00-0525	EA		19" Diameter, 4,020 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED2X12H19-50).....	225.46	66.76
			<i>For &gt;50 To 100, Deduct</i>	-8.17	
			<i>For &gt;100 To 250, Deduct</i>	-13.80	
			<i>For &gt;250 To 500, Deduct</i>	-22.55	
			<i>For &gt;500, Deduct</i>	-31.29	
26 51 19 00-0526	EA		19" Diameter, 4,480 Lumens, 32 Watt, 4000K CCT, LED Drum Fixture (Enertron 10LED4X12S19-50).....	225.52	66.76
			<i>For &gt;50 To 100, Deduct</i>	-8.17	
			<i>For &gt;100 To 250, Deduct</i>	-13.81	
			<i>For &gt;250 To 500, Deduct</i>	-22.55	
			<i>For &gt;500, Deduct</i>	-31.30	
<b>26 51 19 00-0527</b>			<b>Ceiling Mounted, LED Mushroom Fixtures (Mobern)</b> <small>(26 51 19 00-0453)</small>		
26 51 19 00-0528	EA		14" Diameter, 800 Lumens, 12 Watt, LED Ceiling Fixture (Mobern 6814LED12MV30) .....	208.01	61.84
			<i>For &gt;50 To 100, Deduct</i>	-7.52	
			<i>For &gt;100 To 250, Deduct</i>	-12.72	
			<i>For &gt;250 To 500, Deduct</i>	-20.80	
			<i>For &gt;500, Deduct</i>	-28.88	
<b>26 51 19 00-0529</b>			<b>Ceiling Mounted, LED Fixtures (Sylvania)</b> <small>(26 51 19 00-0453)</small>		
26 51 19 00-0530	EA		12.5" x 12.5" x 2.32" Deep, 4,200 Lumens, 35 Watt, LED Garage Light Fixture (Sylvania GARAG1/035UNVD740/G5/SV/D) .....	722.40	66.76
			<i>For &gt;50 To 100, Deduct</i>	-20.59	
			<i>For &gt;100 To 250, Deduct</i>	-38.65	
			<i>For &gt;250 To 500, Deduct</i>	-72.24	
			<i>For &gt;500, Deduct</i>	-105.83	
26 51 19 00-0531	EA		2' x 2', 32 Watt, 120-277 Volt, 4000K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD840/22G/WH + SMK1T1A/24A/WH).....	287.64	56.22
			<i>For &gt;50 To 100, Deduct</i>	-9.30	
			<i>For &gt;100 To 250, Deduct</i>	-16.49	
			<i>For &gt;250 To 500, Deduct</i>	-28.76	
			<i>For &gt;500, Deduct</i>	-41.04	
26 51 19 00-0532	EA		2' x 4', 32 Watt, 120-277 Volt, 3500K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD835/24G/WH + SMK1T1A/24A/WH).....	356.67	65.50
			<i>For &gt;50 To 100, Deduct</i>	-11.38	
			<i>For &gt;100 To 250, Deduct</i>	-20.29	
			<i>For &gt;250 To 500, Deduct</i>	-35.67	
			<i>For &gt;500, Deduct</i>	-51.04	
26 51 19 00-0533	EA		2' x 4', 32 Watt, 120-277 Volt, 4000K CCT, LED, Grid Mount Edge-Lit Panel With Surface Mount Kit, White (Sylvania PANELF1A/032UNVD840/24G/WH + SMK1T1A/24A/WH).....	360.61	65.50
			<i>For &gt;50 To 100, Deduct</i>	-11.48	
			<i>For &gt;100 To 250, Deduct</i>	-20.49	
			<i>For &gt;250 To 500, Deduct</i>	-36.06	
			<i>For &gt;500, Deduct</i>	-51.63	
<b>26 51 19 00-0534</b>			<b>Refrigeration/Display LED Fixtures</b> <small>(26 51 19 00-0001)</small>		
<b>26 51 19 00-0535</b>			<b>Refrigeration/Display LED Fixtures (Lithonia)</b> <small>(26 51 19 00-0534)</small>		
			Note: Fixtures exclude driver.		
26 51 19 00-0536	EA		5' Length, Center Mount, Refrigeration/Display, Vertical LED Fixture (Lithonia FSV5 CM) .....	299.65	65.50
			<i>For &gt;50 To 100, Deduct</i>	-9.95	
			<i>For &gt;100 To 250, Deduct</i>	-17.44	
			<i>For &gt;250 To 500, Deduct</i>	-29.97	
			<i>For &gt;500, Deduct</i>	-42.49	
26 51 19 00-0537	EA		5' Length, Left And Right Mount (Pair), Refrigeration/Display, Vertical LED Fixture (Lithonia FSVDRVL RLEM DLC) .....	402.62	115.95
			<i>For &gt;50 To 100, Deduct</i>	-14.46	
			<i>For &gt;100 To 250, Deduct</i>	-24.52	
			<i>For &gt;250 To 500, Deduct</i>	-40.26	
			<i>For &gt;500, Deduct</i>	-56.00	
26 51 19 00-0538	EA		Up To 5 Door Configuration, LED Driver For Refrigeration/Display, Vertical LED Fixtures (Lithonia FSVDRVL).....	363.66	92.77
			<i>For &gt;50 To 100, Deduct</i>	-12.61	
			<i>For &gt;100 To 250, Deduct</i>	-21.70	
			<i>For &gt;250 To 500, Deduct</i>	-36.37	
			<i>For &gt;500, Deduct</i>	-51.04	
<b>26 51 19 00-0539</b>			<b>Pendant Mount, LED Fixtures</b> <small>(26 51 19 00-0001)</small>		
<b>26 51 19 00-0540</b>			<b>Pendant Mount, Circular Architectural LED Fixtures (Delray Lighting)</b> <small>(26 51 19 00-0539)</small>		
26 51 19 00-0541	EA		2,166 Lumens, 2' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 W W35 S) .....	2,630.57	143.37
			<i>For &gt;50 To 100, Deduct</i>	-71.74	
			<i>For &gt;100 To 250, Deduct</i>	-137.50	
			<i>For &gt;250 To 500, Deduct</i>	-263.06	
			<i>For &gt;500, Deduct</i>	-388.61	

**26 Electrical**  
**26 50 Lighting**  
**26 51 Interior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51	19 00-0542	EA	3,250 Lumens, 3' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 W W35 S) .....	3,952.18	151.79
			<i>For &gt;50 To 100, Deduct</i> .....	-105.13	
			<i>For &gt;100 To 250, Deduct</i> .....	-203.93	
			<i>For &gt;250 To 500, Deduct</i> .....	-395.22	
			<i>For &gt;500, Deduct</i> .....	-586.50	
26 51	19 00-0543	EA	4,333 Lumens, 4' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 W W35 S) .....	5,036.58	160.23
			<i>For &gt;50 To 100, Deduct</i> .....	-132.59	
			<i>For &gt;100 To 250, Deduct</i> .....	-258.51	
			<i>For &gt;250 To 500, Deduct</i> .....	-503.66	
			<i>For &gt;500, Deduct</i> .....	-748.81	
26 51	19 00-0544	EA	5,416 Lumens, 5' Diameter, White Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 W W35 S) .....	6,358.18	168.66
			<i>For &gt;50 To 100, Deduct</i> .....	-165.98	
			<i>For &gt;100 To 250, Deduct</i> .....	-324.94	
			<i>For &gt;250 To 500, Deduct</i> .....	-635.82	
			<i>For &gt;500, Deduct</i> .....	-946.70	
26 51	19 00-0545	EA	2,166 Lumens, 2' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC2 S W35 S) .....	2,787.40	143.37
			<i>For &gt;50 To 100, Deduct</i> .....	-75.66	
			<i>For &gt;100 To 250, Deduct</i> .....	-145.34	
			<i>For &gt;250 To 500, Deduct</i> .....	-278.74	
			<i>For &gt;500, Deduct</i> .....	-412.14	
26 51	19 00-0546	EA	3,250 Lumens, 3' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC3 S W35 S) .....	4,159.98	151.79
			<i>For &gt;50 To 100, Deduct</i> .....	-110.32	
			<i>For &gt;100 To 250, Deduct</i> .....	-214.32	
			<i>For &gt;250 To 500, Deduct</i> .....	-416.00	
			<i>For &gt;500, Deduct</i> .....	-617.67	
26 51	19 00-0547	EA	4,333 Lumens, 4' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC4 S W35 S) .....	5,246.34	160.23
			<i>For &gt;50 To 100, Deduct</i> .....	-137.83	
			<i>For &gt;100 To 250, Deduct</i> .....	-268.99	
			<i>For &gt;250 To 500, Deduct</i> .....	-524.63	
			<i>For &gt;500, Deduct</i> .....	-780.27	
26 51	19 00-0548	EA	5,416 Lumens, 5' Diameter, Silver Finish, Pendant Mount, Circular Architectural LED Fixture (Delray Lighting UC5 S W35 S) .....	6,593.43	168.66
			<i>For &gt;50 To 100, Deduct</i> .....	-171.86	
			<i>For &gt;100 To 250, Deduct</i> .....	-336.70	
			<i>For &gt;250 To 500, Deduct</i> .....	-659.34	
			<i>For &gt;500, Deduct</i> .....	-981.99	
26 51	19 00-0549		<b>Pendant Mount, LED Commercial Fixtures (DMF)</b> <small>(26 51 19 00-0539)</small>		
26 51	19 00-0550	EA	3,000 Lumens, 18-1/4" Diameter, Pendant Mount, LED Commercial Fixture (DMF DP610LED) .....	1,028.59	84.33
			<i>For &gt;50 To 100, Deduct</i> .....	-29.23	
			<i>For &gt;100 To 250, Deduct</i> .....	-54.94	
			<i>For &gt;250 To 500, Deduct</i> .....	-102.86	
			<i>For &gt;500, Deduct</i> .....	-150.77	
26 51	19 00-0551		<b>LED Track Lighting Fixtures</b> <small>(26 51 19)</small>		
26 51	19 00-0552	EA	19 Watt, Dimmable, LED Track Lighting Fixture (Juno® TRAC-MASTER® Cylindra™) .....	204.73	25.68
			<i>For &gt;50 To 100, Deduct</i> .....	-6.08	
			<i>For &gt;100 To 250, Deduct</i> .....	-11.20	
			<i>For &gt;250 To 500, Deduct</i> .....	-20.47	
			<i>For &gt;500, Deduct</i> .....	-29.75	
26 51	19 00-0553	EA	18 Watt, Dimmable, LED Track Lighting Fixture (HALO® Stasis L805MED) .....	349.53	25.68
			<i>For &gt;50 To 100, Deduct</i> .....	-9.70	
			<i>For &gt;100 To 250, Deduct</i> .....	-18.44	
			<i>For &gt;250 To 500, Deduct</i> .....	-34.95	
			<i>For &gt;500, Deduct</i> .....	-51.47	
26 51	19 00-0554	EA	24 Watt, Dimmable, LED Track Lighting Fixture (Amerlux CNTRV33) .....	210.23	25.68
			<i>For &gt;50 To 100, Deduct</i> .....	-6.22	
			<i>For &gt;100 To 250, Deduct</i> .....	-11.47	
			<i>For &gt;250 To 500, Deduct</i> .....	-21.02	
			<i>For &gt;500, Deduct</i> .....	-30.57	
26 51	23		<b>HID Interior Lighting</b> <small>(26 51)</small>		
26 51	23 00-0001		<b>Large Interior Area Fixtures</b> <small>(26 51 23)</small>		
26 51	23 00-0002		<b>Recessed Mounted, Large Interior Area Fixtures</b> <small>(26 51 23 00-0001)</small> Note: Cast aluminum socket housing, anodized aluminum reflector, tempered glass or acrylic lens, plaster mounting frames and brackets.		
26 51	23 00-0003		<b>High Pressure Sodium, Recessed Mounted, Large Interior Area Fixtures</b> <small>(26 51 23 00-0002)</small>		
26 51	23 00-0004	EA	150 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture .....	528.53	163.98
			<i>For Wire Guard, Add</i> .....	40.50	
			<i>For Instant Quartz Restrike, Add</i> .....	60.00	
26 51	23 00-0005	EA	250 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture .....	551.49	174.12
			<i>For Wire Guard, Add</i> .....	40.50	
			<i>For Instant Quartz Restrike, Add</i> .....	60.00	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0006 EA 400 Watt High Pressure Sodium, Recessed Mounted, Large Interior Area Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i>	582.30 40.50 60.00	198.74
<b>26 51 23 00-0007 Metal Halide, Recessed Mounted, Large Interior Area Fixtures</b> <small>(26 51 23 00-0002)</small>		
26 51 23 00-0008 EA 150 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i>	537.15 40.50 60.00	163.98
26 51 23 00-0009 EA 250 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i>	555.17 40.50 60.00	174.12
26 51 23 00-0010 EA 400 Watt Metal Halide, Recessed Mounted, Large Interior Area Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i>	594.72 40.50 60.00	198.74
<b>26 51 23 00-0011 Low Bay Fixtures, Large Interior Area Fixtures</b> <small>(26 51 23 00-0001)</small> Note: Heavy duty steel housing, aluminum reflector, tempered glass or acrylic lens. Low bay fixtures are for mounting below 20-25 feet.		
<b>26 51 23 00-0012 High Pressure Sodium, Low Bay Fixtures</b> <small>(26 51 23 00-0011)</small>		
26 51 23 00-0013 EA 150 Watt High Pressure Sodium, Low Bay Fixture ..... <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	468.63 40.50 75.47 60.00 90.00	149.83
26 51 23 00-0014 EA 250 Watt High Pressure Sodium, Low Bay Fixture ..... <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	484.01 40.50 75.47 60.00 90.00	159.11
26 51 23 00-0015 EA 400 Watt High Pressure Sodium, Low Bay Fixture ..... <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	518.97 40.50 75.47 60.00 90.00	181.59
<b>26 51 23 00-0016 Metal Halide, Low Bay Fixtures</b> <small>(26 51 23 00-0011)</small>		
26 51 23 00-0017 EA 175 Watt Metal Halide, Low Bay Fixture ..... <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	461.50 40.50 75.47 60.00 90.00	149.83
26 51 23 00-0018 EA 250 Watt Metal Halide, Low Bay Fixture ..... <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	476.05 40.50 75.47 60.00 90.00	159.11
26 51 23 00-0019 EA 400 Watt Metal Halide, Low Bay Fixture ..... <i>For Wire Guard, Add</i> <i>For Enclosed And Gasketed, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i>	521.98 40.50 75.47 60.00 90.00	181.59
<b>26 51 23 00-0020 High Bay Fixtures, Large Interior Area Fixtures</b> <small>(26 51 23 00-0001)</small> Note: High bay fixtures are for mounting above 20-25 feet. See CSI section 01 22 23 00-0001 for lifts.		
<b>26 51 23 00-0021 High Pressure Sodium, High Bay Fixtures</b> <small>(26 51 23 00-0020)</small> Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.		
26 51 23 00-0022 EA 250 Watt High Pressure Sodium, High Bay Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i> <i>For Tempered Glass Or Acrylic Lens, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Security Chain, Add</i> <i>For Optical Safety Chain, Add</i> <i>For Ballast Safety Chain, Add</i>	442.78 40.50 60.00 90.00 60.50 47.75 19.34 7.47 12.13	159.11
26 51 23 00-0023 EA 400 Watt High Pressure Sodium, High Bay Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Glass Or Acrylic Reflector, Add</i> <i>For Tempered Glass Or Acrylic Lens, Add</i> <i>For Polycarbonate Lens, Add</i> <i>For Security Chain, Add</i> <i>For Optical Safety Chain, Add</i> <i>For Ballast Safety Chain, Add</i>	482.09 40.50 60.00 90.00 60.50 47.75 19.34 7.47 12.13	181.59

**26 Electrical**

**26 50 Lighting**

**26 51 Interior Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0024 EA 1,000 Watt High Pressure Sodium, High Bay Fixture .....	672.59	191.01
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
<b>26 51 23 00-0025 Metal Halide, High Bay Fixtures</b> <small>(26 51 23 00-0020)</small>		
Note: Includes heavy duty steel housing and aluminum reflector. Excludes lens.		
26 51 23 00-0026 EA 250 Watt Metal Halide, High Bay Fixture .....	415.46	159.11
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0027 EA 400 Watt Metal Halide, High Bay Fixture .....	461.22	181.59
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
26 51 23 00-0028 EA 1,000 Watt Metal Halide, High Bay Fixture .....	577.91	191.01
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Glass Or Acrylic Reflector, Add	90.00	
For Tempered Glass Or Acrylic Lens, Add	60.50	
For Polycarbonate Lens, Add	47.75	
For Security Chain, Add	19.34	
For Optical Safety Chain, Add	7.47	
For Ballast Safety Chain, Add	12.13	
<b>26 51 23 00-0029 Induction, High Bay Fixtures</b> <small>(26 51 23 00-0020)</small>		
<b>26 51 23 00-0030 Induction, High Bay Fixtures (Everlast®)</b> <small>(26 51 23 00-0029)</small>		
Note: Includes die cast aluminum ballast casing and acrylic lens.		
26 51 23 00-0031 EA 100 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	522.65	139.15
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0032 EA 120 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	558.32	143.79
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0033 EA 150 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	569.29	148.42
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0034 EA 200 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	616.78	153.06
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0035 EA 250 Watt Induction, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	632.71	157.70
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0036 EA 100 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	557.20	139.15
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0037 EA 120 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	592.87	143.79
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0038 EA 150 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	603.84	148.42
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0039 EA 200 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	651.33	153.06
For Impact Resistant Silicon Lens, Add	20.00	
26 51 23 00-0040 EA 250 Watt Induction, Variable Dimming, High Bay Fixture (Everlast® Huron EHBUS-AC) .....	667.26	157.70
For Impact Resistant Silicon Lens, Add	20.00	
<b>26 51 23 00-0041 Ceiling Mounted, Large Interior Area Fixtures</b> <small>(26 51 23 00-0001)</small>		
Note: Heavy duty aluminum housing, aluminum reflector, acrylic drop dish lens, fully gasketed.		
<b>26 51 23 00-0042 High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixtures</b> <small>(26 51 23 00-0041)</small>		
26 51 23 00-0043 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture .....	359.02	106.60
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0044 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture .....	705.59	106.60
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	
26 51 23 00-0045 EA 250 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture .....	808.73	106.60
For Wire Guard, Add	40.50	
For Instant Quartz Restrike, Add	60.00	
For Polycarbonate Lens, Add	47.75	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Interior Lighting</b>	<b>26 51</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 23 00-0046 EA 400 Watt High Pressure Sodium, Ceiling Mounted, Large Interior Area Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Polycarbonate Lens, Add</i>	1,076.42 40.50 60.00 47.75	106.60
<b>26 51 23 00-0047 Metal Halide, Ceiling Mounted, Large Interior Area Fixtures (26 51 23 00-0041)</b>		
26 51 23 00-0048 EA 100 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Polycarbonate Lens, Add</i>	344.58 40.50 60.00 47.75	106.60
26 51 23 00-0049 EA 175 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Polycarbonate Lens, Add</i>	364.40 40.50 60.00 47.75	118.29
26 51 23 00-0050 EA 250 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Polycarbonate Lens, Add</i>	388.47 40.50 60.00 47.75	128.13
26 51 23 00-0051 EA 400 Watt Metal Halide, Ceiling Mounted, Large Interior Area Fixture ..... <i>For Wire Guard, Add</i> <i>For Instant Quartz Restrike, Add</i> <i>For Polycarbonate Lens, Add</i>	438.61 40.50 60.00 47.75	152.59
<b>26 51 23 00-0052 High Pressure Sodium, Recessed Fixture Housings (26 51 23)</b>		
26 51 23 00-0053 EA 4" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	179.05 14.56	44.30
26 51 23 00-0054 EA 5" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	186.59 15.54	44.30
26 51 23 00-0055 EA 6" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	195.94 16.35	46.15
26 51 23 00-0056 EA 7" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	203.13 16.88	48.14
26 51 23 00-0057 EA 8" Round, High Pressure Sodium, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	210.25 17.40	50.15
26 51 23 00-0058 EA 10" To 12" Square, High Pressure Sodium, T Or ICT Recessed Fixture Housing ..... <i>For ICAT Housing, Add</i>	216.87 17.66	53.22
<b>26 51 23 00-0059 Metal Halide Track Lighting Fixtures (26 51 23)</b>		
26 51 23 00-0060 EA Metal Halide Track Lighting Fixture .....	115.74	25.68
<b>26 51 23 00-0061 Metal Halide, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)</b>		
26 51 23 00-0062 EA 75 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	190.82 6.30	61.53
26 51 23 00-0063 EA 100 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	195.86 6.30	61.53
26 51 23 00-0064 EA 150 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	206.10 6.30	61.53
26 51 23 00-0065 EA 175 Watt Metal Halide, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	221.49 6.30	61.53
<b>26 51 23 00-0066 High Pressure Sodium, Wet Location, Dust Resistant, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixtures (26 51 23)</b>		
26 51 23 00-0067 EA 70 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	178.83 6.67	61.53
26 51 23 00-0068 EA 100 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	185.08 6.67	61.53
26 51 23 00-0069 EA 150 Watt High Pressure Sodium, Ceiling Mounted, Cast Metal Guard, Enclosed And Gasketed, Vapor Tight Fixture ..... <i>For Wall Mounted, Add</i>	209.29 6.67	61.53
<b>26 51 33 Interior Lighting Accessories (26 51)</b>		
<b>26 51 33 00-0001 Accessories And Modifiers For Fixtures (26 51 33)</b>		
<b>26 51 33 00-0002 Lens Modifications (26 51 33 00-0001)</b>		
26 51 33 00-0003 EA For 1' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add .....	37.42	
26 51 33 00-0004 EA For 1' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add .....	46.22	
26 51 33 00-0005 EA For 2' x 2' Drop Dish Diffuser Instead Of Prismatic Lens, Add .....	48.42	
26 51 33 00-0006 EA For 2' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add .....	52.83	
26 51 33 00-0007 EA For 4' x 4' Drop Dish Diffuser Instead Of Prismatic Lens, Add .....	63.83	
26 51 33 00-0008 EA For 1' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add .....	15.41	
26 51 33 00-0009 EA For 1' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add .....	22.01	
26 51 33 00-0010 EA For 2' x 2' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add .....	24.21	
26 51 33 00-0011 EA For 2' x 4' Egg Crate/Cube Louvers Instead Of Prismatic Lens, Add .....	28.61	

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 51</b>	<b>Interior Lighting</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 51 33 00-0012		<b>Pendant Mounting Modifications</b> <small>(26 51 33 00-0001)</small> Note: Per pendant. Use demolition cost for associated light fixture for demolition of pendant mounted light fixture assembly.		
26 51 33 00-0013	EA	For Pendant Mounting Up to 1'-6" Long Section..... Note: Per pendant.	16.73	
26 51 33 00-0014	EA	For Pendant Mounting 2' Long Section..... Note: Per pendant.	19.37	
26 51 33 00-0015	EA	For Pendant Mounting 3' Long Section..... Note: Per pendant.	24.78	
26 51 33 00-0016	EA	For Pendant Mounting 4' Long Section..... Note: Per pendant.	29.27	
26 51 33 00-0017	EA	For Pendant Mounting 6' Long Section..... Note: Per pendant.	36.98	
26 51 33 00-0018	EA	For Pendant Mounting 8' Long Section..... Note: Per pendant.	50.19	
26 51 33 00-0019		<b>Fluorescent Light Accessories</b> <small>(26 51 33 00-0001)</small>		
26 51 33 00-0020	EA	Blank Metal Light Box Plate.....	30.98	
26 51 33 00-0021	EA	Factory Installed Fixture Mounted Occupancy Sensor.....	169.47	
26 51 33 00-0022		<b>Wire Guards</b> <small>(26 51 33 00-0001)</small>		
26 51 33 00-0023	EA	Wire Guard for 6" x 2' Fixture.....	74.25	7.70
26 51 33 00-0024	EA	Wire Guard for 6" x 4' Fixture.....	104.67	12.32
26 51 33 00-0025	EA	Wire Guard for 1" x 2' Fixture.....	82.84	8.48
26 51 33 00-0026	EA	Wire Guard for 1" x 4' Fixture.....	117.97	13.09
26 51 33 00-0027	EA	Wire Guard for 2" x 2' Fixture.....	100.87	9.24
26 51 33 00-0028	EA	Wire Guard for 2" x 4' Fixture.....	138.34	13.86
26 51 33 00-0029		<b>Lighting Accessories</b> <small>(26 51 33)</small>		
26 51 33 00-0030		<b>Modular Flexible Wiring Systems</b> <small>(26 51 33 00-0029)</small>		
26 51 33 00-0031	EA	10' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-10).....	108.68	8.30
26 51 33 00-0032	EA	15' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-15).....	126.17	8.30
26 51 33 00-0033	EA	20' Length, 2-Circuit, Modular Power Cable (Day-Brite PC-12-2E-20).....	151.77	8.30
26 51 33 00-0034	EA	15' Length, 2-Circuit, Modular Lighting Cable (Day-Brite LC-27-2E-15).....	126.17	8.30
26 51 33 00-0035	EA	3 Out, 3-Circuit, Modular Lighting Interface (Day-Brite LI-27-3E).....	110.47	8.30
26 51 33 00-0036	EA	13' Length, 2-Circuit, Modular Reddy-Connect Cable (Day-Brite RC-27-2D-13).....	162.02	8.30
26 51 33 00-0037	EA	3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-7M).....	90.01	8.30
26 51 33 00-0038	EA	3" Length, 2-Circuit, Modular Lighting Tap (Day-Brite LT-27-2E).....	101.41	8.30
26 51 33 00-0039	EA	7' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-07).....	128.82	8.30
26 51 33 00-0040	EA	7' Length, 1-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-ML-07).....	128.82	8.30
26 51 33 00-0041	EA	7' Length, 2-Circuit Multi-Level, Modular Lighting Switch Unit (Day-Brite LS-27-2C-07).....	130.97	8.30
26 51 33 00-0042	EA	7' Length, 1st 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3A-07).....	130.18	8.30
26 51 33 00-0043	EA	7' Length, 2nd 3-Way, Modular Lighting Switch Unit (Day-Brite LS-27-3B-07).....	130.18	8.30
26 51 33 00-0044	EA	15' Length, Single Level, Modular Lighting Switch Unit (Day-Brite LS-27-SL-15).....	149.36	8.30
26 51 33 00-0045	EA	3" Length, 2-Circuit, Modular Lighting Adapter (Day-Brite LA-27-4D).....	69.53	8.30
26 51 33 00-0046	EA	3" Length, 1-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-1E).....	65.06	8.30
26 51 33 00-0047	EA	3" Length, 2-Circuit, Modular Lighting Distribution Cable (Day-Brite LD-27-2E).....	66.62	8.30
26 51 33 00-0048	EA	3" Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E).....	83.22	8.30
26 51 33 00-0049	EA	15' Length, 1-Circuit, Modular Lighting Tap (Day-Brite LT-27-1E-15).....	108.68	8.30
26 51 33 00-0050	EA	15' Length, 1-Circuit, Modular Lighting Cable (Day-Brite LC-27-1E-15).....	111.38	8.30
26 51 33 00-0051	EA	Modular Lighting Junction Or Circuit Splitter (Day-Brite LJ-27-3E).....	87.35	8.30
26 51 33 00-0052	EA	3" Length, 1-Circuit, Modular Power Distribution Cable (Day-Brite PD-12-1E).....	65.06	8.30
26 51 33 00-0053	EA	Removal And Reinstallation Of Modular Wiring Complete Including Storage And Cleaning.....	69.21	
26 51 33 00-0054		<b>Additional Lighting Wire Whips</b> <small>(26 51 33)</small>		
26 51 33 00-0055	LF	For Each Additional LF Of Interior Lighting Wire Whip, Add..... Note: Wire whips are included with interior lighting fixtures, where necessary, up to six feet in length. Use this task for additional required whip length. For example, if the fixture requires a 15' wire whip then use 9 LF of this task to reach required length.	1.84	
26 51 33 00-0056		<b>Removal And Reinstallation Of Light Fixtures</b> <small>(26 51 33)</small> Note: Includes disconnection of wire, on-site storage, general cleaning, installation and electrical wire hook-up.		
26 51 33 00-0057	EA	Removal And Reinstallation Of Lay-In Fluorescent Light Fixture.....	163.74	
26 51 33 00-0058	EA	Removal And Reinstallation Of Surface Mounted Or Pendant Light Fixture.....	187.14	
<b>26 52</b>	<b>Safety Lighting</b> <small>(26 50)</small>			
<b>26 52 13</b>	<b>Emergency and Exit Lighting</b> <small>(26 52)</small>			
<b>26 52 13 13</b>	<b>Emergency Lighting</b> <small>(26 52 13)</small>			
<b>26 52 13 13-0001</b>	<b>Commercial Emergency Lights</b> <small>(26 52 13 13)</small>			



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Safety Lighting</b>	<b>26 52</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 52 13 13-0002 Polycarbonate Housing, Commercial Emergency Lights</b> <small>(26 52 13 13-0001)</small>		
<small>Note: Includes lead-calcium batteries and two adjustable lamp heads.</small>		
26 52 13 13-0003 EA 3 Max Wattage At 90 Minutes, 3.6 Volt, Polycarbonate Housing, LED Lamps, Commercial Emergency Light (Lithonia ELM2 LED) .....	261.56	38.46
26 52 13 13-0004 EA 10.8 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM2) .....	183.96	38.46
<i>For Halogen Lamps, Add</i> .....	27.55	
<i>For Self-Diagnostics, Add</i> .....	87.50	
26 52 13 13-0005 EA 18 Max Wattage At 90 Minutes, 6 Volt, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM618) .....	285.52	38.46
<i>For Halogen Lamps, Add</i> .....	27.55	
<i>For Self-Diagnostics, Add</i> .....	87.50	
26 52 13 13-0006 EA 27 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM627) .....	331.50	38.46
<i>For Halogen Lamps, Add</i> .....	27.55	
<i>For Self-Diagnostics, Add</i> .....	87.50	
26 52 13 13-0007 EA 54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM654) .....	489.51	38.46
<i>For Halogen Lamps, Add</i> .....	27.55	
<i>For Self-Diagnostics, Add</i> .....	87.50	
26 52 13 13-0008 EA 54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1254) .....	553.65	38.46
<i>For Halogen Lamps, Add</i> .....	27.55	
<i>For Self-Diagnostics, Add</i> .....	87.50	
26 52 13 13-0009 EA 72 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Polycarbonate Housing, Krypton Lamps, Commercial Emergency Light (Lithonia ELM1272) .....	803.55	38.46
<i>For Halogen Lamps, Add</i> .....	27.55	
<i>For Self-Diagnostics, Add</i> .....	87.50	
<b>26 52 13 13-0010 Remote Heads For Commercial Emergency Lights</b> <small>(26 52 13 13-0001)</small>		
<small>Note: For use with fixtures that have remote capability.</small>		
26 52 13 13-0011 EA 6 Watt, 6 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H0606).....	176.25	23.07
26 52 13 13-0012 EA 6 Watt, 6 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0606).....	177.40	23.07
26 52 13 13-0013 EA 8 Watt, 8 Volt, Gasketed Fiberglass Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA NX H0806).....	181.28	23.07
26 52 13 13-0014 EA 12 Watt, 12 Volt, Aluminum Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA MT H1212) .....	180.65	23.07
26 52 13 13-0015 EA 12 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H1212) .....	156.84	23.07
26 52 13 13-0016 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	109.54	23.07
<b>26 52 13 13-0017 Industrial Emergency Lights</b> <small>(26 52 13 13)</small>		
<b>26 52 13 13-0018 Painted Steel Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0017)</small>		
<b>26 52 13 13-0019 Painted Steel Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0018)</small>		
<small>Note: Includes lead-calcium batteries and two adjustable lamp heads.</small>		
26 52 13 13-0020 EA 16 Max Wattage At 90 Minutes, 6 Volt, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT16).....	454.61	38.46
<i>For Wireguard, Add</i> .....	227.25	
26 52 13 13-0021 EA 24 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT24) .....	382.85	38.46
<i>For Wireguard, Add</i> .....	227.25	
26 52 13 13-0022 EA 36 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT36) .....	592.58	38.46
<i>For Wireguard, Add</i> .....	227.25	
26 52 13 13-0023 EA 50 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT50).....	628.78	38.46
<i>For Wireguard, Add</i> .....	227.25	
26 52 13 13-0024 EA 125 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT125).....	894.22	38.46
<i>For Wireguard, Add</i> .....	242.04	
26 52 13 13-0025 EA 275 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Painted Steel Housing, Incandescent Lamps, Industrial Emergency Light (Lithonia ELT275).....	1,402.02	38.46
<i>For Wireguard, Add</i> .....	242.04	
<b>26 52 13 13-0026 Remote Heads For Painted Steel Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0018)</small>		
<small>Note: For use with fixtures that have remote capability.</small>		
26 52 13 13-0027 EA 8 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N0806).....	136.80	23.07
<i>For Wireguard, Add</i> .....	183.40	
26 52 13 13-0028 EA 12 Watt, 6 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1206).....	141.31	23.07
<i>For Wireguard, Add</i> .....	183.40	
26 52 13 13-0029 EA 8 Watt, 12 Volt, Thermoplastic Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA H0812) .....	137.43	23.07
<i>For Wireguard, Add</i> .....	183.40	
26 52 13 13-0030 EA 12 Watt, 12 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N1212).....	138.16	23.07
<i>For Wireguard, Add</i> .....	183.40	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0031	EA	12 Watt, 25 Volt, Thermoplastic Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA N2512).....	141.31	23.07
		<i>For Wireguard, Add</i>	183.40	
26 52 13 13-0032	EA	12 Watt, 25 Volt, Aluminum Housing, Incandescent Lamp, Emergency Light Remote Head (Lithonia ELA MT N2512).....	164.18	23.07
		<i>For Wireguard, Add</i>	183.40	
<b>26 52 13 13-0033</b>		<b>Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0017)</small>		
<b>26 52 13 13-0034</b>		<b>Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0033)</small>		
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
26 52 13 13-0035	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND618) .....	448.84	38.46
		<i>For Wireguard, Add</i>	220.96	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0036	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1236).....	487.14	38.46
		<i>For Wireguard, Add</i>	220.96	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0037	EA	54 Max Wattage At 90 Minutes, 6 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND654).....	476.65	38.46
		<i>For Wireguard, Add</i>	220.96	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0038	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND1254).....	503.40	38.46
		<i>For Wireguard, Add</i>	220.96	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0039	EA	100 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Light (Lithonia IND12100).....	842.28	38.46
		<i>For Wireguard, Add</i>	220.96	
		<i>For Self-Diagnostics, Add</i>	105.50	
26 52 13 13-0040	EA	18 Max Wattage At 90 Minutes, 6 Volt, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX618) .....	663.40	38.46
		<i>For Wireguard, Add</i>	220.96	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0041	EA	36 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1236).....	742.09	38.46
		<i>For Wireguard, Add</i>	220.96	
		<i>For Self-Diagnostics, Add</i>	61.50	
26 52 13 13-0042	EA	54 Max Wattage At 90 Minutes, 12 Volt, Remote Capability, Krypton Lamps, NEMA 4X, Rugged Injection-Molded Thermoplastic Housing, Harsh Environment Industrial Emergency Light (Lithonia INDX1254).....	781.96	38.46
		<i>For Wireguard, Add</i>	220.96	
		<i>For Self-Diagnostics, Add</i>	61.50	
<b>26 52 13 13-0043</b>		<b>Remote Heads For Rugged Injection-Molded Thermoplastic Housing, Industrial Emergency Lights</b> <small>(26 52 13 13-0033)</small>		
		Note: For use with fixtures that have remote capability.		
26 52 13 13-0044	EA	9 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0906).....	119.49	23.07
26 52 13 13-0045	EA	12 Watt, 6 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1206).....	128.62	23.07
26 52 13 13-0046	EA	9 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Krypton Lamp, Emergency Light Remote Head (Lithonia ELA IND K0912).....	119.59	23.07
26 52 13 13-0047	EA	12 Watt, 12 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H1212).....	126.31	23.07
26 52 13 13-0048	EA	12 Watt, 20 Volt, Heavyweight Polycarbonate Housing, Halogen Lamp, Emergency Light Remote Head (Lithonia ELA IND H2012).....	109.06	23.07
<b>26 52 13 13-0049</b>		<b>Outdoor Emergency Lights</b> <small>(26 52 13 13)</small>		
<b>26 52 13 13-0050</b>		<b>Gasketed Die-Cast Aluminum Housing, Outdoor Emergency Lights</b> <small>(26 52 13 13-0049)</small>		
		Note: Includes nickel-cadmium batteries.		
26 52 13 13-0051	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light (Dual-Lite PG Series).....	701.69	38.46
26 52 13 13-0052	EA	10 Max Wattage At 90 Minutes, LED Lamps, Gasketed Aluminum Die-Cast Housing, Outdoor Emergency Light With Heater (Dual-Lite PG Series).....	835.46	38.46
<b>26 52 13 13-0053</b>		<b>Recessed Emergency Lights</b> <small>(26 52 13 13)</small>		
26 52 13 13-0054	EA	10 Watt At 90 Minutes, 6 Volt, Halogen Lamp, 8" Round, Recessed High-Hat Emergency Light (Lithonia ELRG).....	763.12	38.46
		<i>For Wire Guard, Add</i>	60.00	
26 52 13 13-0055	EA	16 Max Wattage At 90 Minutes, 6 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR2).....	615.69	76.91
		Note: Includes lead-calcium batteries and two adjustable lamp heads.		
		<i>For Wireguard, Add</i>	242.04	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 13-0056	EA		50 Max Wattage At 90 Minutes, 12 Volt, 12" x 12" Polycarbonate Housing, Glass Sealed-Beam Lamps, Recessed Emergency Light (Lithonia ELR4).....	874.95	76.91
			Note: Includes lead-calcium batteries and two adjustable lamp heads.		
			For Wireguard, Add	242.04	
<b>26 52 13 13-0057</b>			<b>Square Wraparound Emergency Lights</b> (26 52 13 13)		
26 52 13 13-0058	EA		10 Max Wattage At 90 Minutes, 6 Volt, Halogen Lamp, 10-5/16" x 10-5/16" Lexan Frame, Square Wraparound Emergency Light (Lithonia ELSQ).....	354.21	38.46
<b>26 52 13 16</b>			<b>Exit Signs</b> (26 52 13)		
			Note: Excludes pendants.		
<b>26 52 13 16-0001</b>			<b>LED Exit Signs</b> (26 52 13 16)		
			Note: Includes red LED lamps.		
26 52 13 16-0002	EA		Single Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	218.55	56.22
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-8.28	
			For >100 To 250, Deduct	-13.74	
			For >250 To 500, Deduct	-21.86	
			For >500, Deduct	-29.97	
26 52 13 16-0003	EA		Double Face, Thermoplastic Housing, LED Exit Sign (Lithonia LQM-S-W-3-R-120/277-M6).....	218.55	56.22
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-8.28	
			For >100 To 250, Deduct	-13.74	
			For >250 To 500, Deduct	-21.86	
			For >500, Deduct	-29.97	
26 52 13 16-0004	EA		Single Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM-S-W-3-R-120/277-EL-N-M6).....	297.91	56.22
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-10.26	
			For >100 To 250, Deduct	-17.71	
			For >250 To 500, Deduct	-29.79	
			For >500, Deduct	-41.88	
26 52 13 16-0005	EA		Double Face, Thermoplastic Housing, LED Exit Sign With Battery Back-Up (Lithonia LQM ELN).....	297.91	56.22
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-10.26	
			For >100 To 250, Deduct	-17.71	
			For >250 To 500, Deduct	-29.79	
			For >500, Deduct	-41.88	
26 52 13 16-0006	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-1-R).....	326.27	56.22
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-10.97	
			For >100 To 250, Deduct	-19.12	
			For >250 To 500, Deduct	-32.63	
			For >500, Deduct	-46.13	
26 52 13 16-0007	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign (Lithonia LQC-W-2-R).....	367.64	56.22
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-12.00	
			For >100 To 250, Deduct	-21.19	
			For >250 To 500, Deduct	-36.76	
			For >500, Deduct	-52.33	
26 52 13 16-0008	EA		Single Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-1-R-EL-N).....	308.98	56.22
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-10.54	
			For >100 To 250, Deduct	-18.26	
			For >250 To 500, Deduct	-30.90	
			For >500, Deduct	-43.54	
26 52 13 16-0009	EA		Double Face, Die-Cast Aluminum Housing, LED Exit Sign With Battery Back-Up (Lithonia LQC-W-2-R-EL-N).....	339.01	56.22
			For Green LED Lamps, Add	15.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-11.29	
			For >100 To 250, Deduct	-19.76	
			For >250 To 500, Deduct	-33.90	
			For >500, Deduct	-48.04	
26 52 13 16-0010	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-S-W-3-R-M4).....	395.08	56.22
			Note: Includes two circular side mounted krypton emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-13.72	
			For >100 To 250, Deduct	-23.60	
			For >250 To 500, Deduct	-39.51	
			For >500, Deduct	-55.42	
26 52 13 16-0011	EA		Single Face, Thermoplastic Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Lithonia LHQM-LED-R-M6).....	341.01	56.22
			Note: Includes two circular side mounted LED emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-12.37	
			For >100 To 250, Deduct	-20.90	
			For >250 To 500, Deduct	-34.10	
			For >500, Deduct	-47.31	

**26 Electrical**  
**26 50 Lighting**  
**26 52 Safety Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0012	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM-PH).....	488.78	56.22
			Note: Includes two rectangular front mounted high intensity tungsten emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-16.07	
			For >100 To 250, Deduct	-28.28	
			For >250 To 500, Deduct	-48.88	
			For >500, Deduct	-69.47	
26 52 13 16-0013	EA		Single Face, Powder Coated Steel Housing, LED Exit Sign/Emergency Light Combo With Battery Back-Up (Big Beam COM).....	510.58	56.22
			Note: Includes two circular side mounted PAR 36 emergency lights.		
			For Green LED Lamps, Add	15.00	
			For >50 To 100, Deduct	-16.61	
			For >100 To 250, Deduct	-29.37	
			For >250 To 500, Deduct	-51.06	
			For >500, Deduct	-72.74	
26 52 13 16-0014	EA		Single Or Double Face, Polycarbonate Housing, LED Emergency Exit Sign (Eaton Lighting APX6R).....	151.70	56.22
			For >50 To 100, Deduct	-6.60	
			For >100 To 250, Deduct	-10.40	
			For >250 To 500, Deduct	-15.17	
			For >500, Deduct	-19.94	
26 52 13 16-0015	EA		120-277 Volt, LED Emergency Exit Sign With Nickel Cadmium Battery, Red (Cooper Industries APX7R).....	152.21	56.22
			For >50 To 100, Deduct	-6.62	
			For >100 To 250, Deduct	-10.42	
			For >250 To 500, Deduct	-15.22	
			For >500, Deduct	-20.02	
<b>26 52 13 16-0016</b>			<b>Edge-Lit LED Exit Signs</b> <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		
26 52 13 16-0017	EA		Single Face, Edge-Lit LED Exit Sign (Lithonia EDG-1- R-M6).....	292.86	56.22
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-10.13	
			For >100 To 250, Deduct	-17.45	
			For >250 To 500, Deduct	-29.29	
			For >500, Deduct	-41.12	
26 52 13 16-0018	EA		Double Face, Edge-Lit LED Exit Sign (Lithonia EDG-2-R-M6).....	295.72	56.22
			For Green LED Lamps, Add	40.00	
			For >50 To 100, Deduct	-10.20	
			For >100 To 250, Deduct	-17.60	
			For >250 To 500, Deduct	-29.57	
			For >500, Deduct	-41.55	
26 52 13 16-0019	EA		Single Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-1-R-EL-M6).....	315.10	56.22
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-10.69	
			For >100 To 250, Deduct	-18.57	
			For >250 To 500, Deduct	-31.51	
			For >500, Deduct	-44.45	
26 52 13 16-0020	EA		Double Face, Edge-Lit LED Exit Sign With Battery Back-Up (Lithonia EDG-2-R-EL-M6).....	373.01	56.22
			For Green LED Lamps, Add	40.00	
			For Self-Diagnostics, Add	50.00	
			For >50 To 100, Deduct	-12.14	
			For >100 To 250, Deduct	-21.46	
			For >250 To 500, Deduct	-37.30	
			For >500, Deduct	-53.14	
<b>26 52 13 16-0021</b>			<b>Self-Luminous Tritium Exit Signs</b> <small>(26 52 13 16)</small>		
			Note: Includes red or green tritium filled pyrex glass light tubes with phosphor coating.		
26 52 13 16-0022	EA		10 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-10-R).....	603.46	56.22
			For >50 To 100, Deduct	-17.90	
			For >100 To 250, Deduct	-32.98	
			For >250 To 500, Deduct	-60.35	
			For >500, Deduct	-87.71	
26 52 13 16-0023	EA		10 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-10-R).....	1,093.95	56.22
			For >50 To 100, Deduct	-30.16	
			For >100 To 250, Deduct	-57.51	
			For >250 To 500, Deduct	-109.40	
			For >500, Deduct	-161.28	
26 52 13 16-0024	EA		20 Year, Single Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-S-20-R).....	715.20	56.22
			For >50 To 100, Deduct	-20.69	
			For >100 To 250, Deduct	-38.57	
			For >250 To 500, Deduct	-71.52	
			For >500, Deduct	-104.47	
26 52 13 16-0025	EA		20 Year, Double Face, Acrylonitrile Butadiene Styrene (ABS) Housing, Self-Luminous Tritium Exit Sign (Isolite SLX-60-D-20-R).....	1,183.66	56.22
			For >50 To 100, Deduct	-32.40	
			For >100 To 250, Deduct	-61.99	
			For >250 To 500, Deduct	-118.37	
			For >500, Deduct	-174.74	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Safety Lighting	26 52	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 52 13 16-0026	EA		10 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-10-R).....	659.07	56.22
			<i>For &gt;50 To 100, Deduct</i>	-19.29	
			<i>For &gt;100 To 250, Deduct</i>	-35.76	
			<i>For &gt;250 To 500, Deduct</i>	-65.91	
			<i>For &gt;500, Deduct</i>	-96.05	
26 52 13 16-0027	EA		10 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-10-R) .....	1,183.66	56.22
			<i>For &gt;50 To 100, Deduct</i>	-32.40	
			<i>For &gt;100 To 250, Deduct</i>	-61.99	
			<i>For &gt;250 To 500, Deduct</i>	-118.37	
			<i>For &gt;500, Deduct</i>	-174.74	
26 52 13 16-0028	EA		20 Year, Single Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-01-20-R).....	804.38	56.22
			<i>For &gt;50 To 100, Deduct</i>	-22.92	
			<i>For &gt;100 To 250, Deduct</i>	-43.03	
			<i>For &gt;250 To 500, Deduct</i>	-80.44	
			<i>For &gt;500, Deduct</i>	-117.85	
26 52 13 16-0029	EA		20 Year, Double Face, Aluminum Housing, Self-Luminous Tritium Exit Sign (Isolite 2040-07-20-R) .....	1,464.84	56.22
			<i>For &gt;50 To 100, Deduct</i>	-39.43	
			<i>For &gt;100 To 250, Deduct</i>	-76.05	
			<i>For &gt;250 To 500, Deduct</i>	-146.48	
			<i>For &gt;500, Deduct</i>	-216.91	
<b>26 52 13 16-0030</b>			<b>Vandal-Resistant LED Exit Signs</b> <small>(26 52 13 16)</small>		
			Note: Includes red LED lamps.		
26 52 13 16-0031	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign (Lithonia LV-S-W-1-R-120/277) .....	570.41	56.22
			<i>For &gt;50 To 100, Deduct</i>	-17.07	
			<i>For &gt;100 To 250, Deduct</i>	-31.33	
			<i>For &gt;250 To 500, Deduct</i>	-57.04	
			<i>For &gt;500, Deduct</i>	-82.75	
26 52 13 16-0032	EA		Single Face, Aluminum Housing, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-W-1-R-120/277-EL-N) .....	874.15	56.22
			<i>For &gt;50 To 100, Deduct</i>	-24.67	
			<i>For &gt;100 To 250, Deduct</i>	-46.52	
			<i>For &gt;250 To 500, Deduct</i>	-87.42	
			<i>For &gt;500, Deduct</i>	-128.31	
26 52 13 16-0033	EA		Single Face, Aluminum Housing, NEMA 4X, Vandal-Resistant/Wet Location, LED Exit Sign With Battery Backup (Lithonia LV-S-1-R-120/277-EL-N-UM-4X) .....	1,060.38	56.22
			<i>For &gt;50 To 100, Deduct</i>	-29.32	
			<i>For &gt;100 To 250, Deduct</i>	-55.83	
			<i>For &gt;250 To 500, Deduct</i>	-106.04	
			<i>For &gt;500, Deduct</i>	-156.25	
<b>26 52 13 16-0034</b>			<b>Removal And Reinstallation Of Exit Light Fixture</b> <small>(26 52 13 16)</small>		
26 52 13 16-0035	EA		Removal And Reinstall Of Exit Light Fixtures .....	115.37	
			Note: Includes storage and cleaning.		
			<i>For &gt;50 To 100, Deduct</i>	-5.77	
			<i>For &gt;100 To 250, Deduct</i>	-8.65	
			<i>For &gt;250 To 500, Deduct</i>	-11.54	
			<i>For &gt;500, Deduct</i>	-14.42	
<b>26 52 13 16-0036</b>			<b>Exit Sign Accessories</b> <small>(26 52 13 16)</small>		
26 52 13 16-0037	EA		Polycarbonate Vandal Shield For Exit Signs (Radiant-Lite BG-1).....	135.69	15.41
			<i>For &gt;50 To 100, Deduct</i>	-4.16	
			<i>For &gt;100 To 250, Deduct</i>	-7.55	
			<i>For &gt;250 To 500, Deduct</i>	-13.57	
			<i>For &gt;500, Deduct</i>	-19.58	
26 52 13 16-0038	EA		Wire Guard For Exit Signs Or Emergency Lights (Best Lighting Products WG-1) .....	81.40	15.41
			<i>For &gt;50 To 100, Deduct</i>	-2.81	
			<i>For &gt;100 To 250, Deduct</i>	-4.84	
			<i>For &gt;250 To 500, Deduct</i>	-8.14	
			<i>For &gt;500, Deduct</i>	-11.44	
26 52 13 16-0039	EA		Wire Guard For Combination Exit Sign And Emergency Light (Best Lighting Products WG-3) .....	125.85	12.32
			<i>For &gt;50 To 100, Deduct</i>	-3.76	
			<i>For &gt;100 To 250, Deduct</i>	-6.91	
			<i>For &gt;250 To 500, Deduct</i>	-12.59	
			<i>For &gt;500, Deduct</i>	-18.26	
26 52 13 16-0040	EA		Removal And Replacement Of Battery For Exit Signs.....	137.02	
			Note: Battery: nickel cadmium, 1.2 volt, 1 Ah battery capacity		
			<i>For &gt;50 To 100, Deduct</i>	-4.39	
			<i>For &gt;100 To 250, Deduct</i>	-7.81	
			<i>For &gt;250 To 500, Deduct</i>	-13.70	
			<i>For &gt;500, Deduct</i>	-19.59	

**26 54 Classified Location Lighting** (26 50)

**26 54 19 LED Classified Location Lighting** (26 54)

**26 54 19 00-0001 Class I Division 2, Hazardous Location, LED Fixtures** (26 54 19)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 54 19 00-0002</b> <b>Class I Division 2, Hazardous Location, NEMA 4X, LED Floodlight (Cooper Champ® FMV)</b> <small>(26 54 19 00-0001)</small> Note: Includes 5,600K CRI LED arrays, shatter resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0003    EA    5,183 Lumens, 45 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV5L).....	2,516.17	126.49
For Bolt-On Visor, Add	94.27	
For Bolt-On Wire Guard, Add	193.89	
For 480 Volt, Add	166.01	
For Warm White Color Rendering, Add	70.48	
For >50 To 100, Deduct	-68.17	
For >100 To 250, Deduct	-131.08	
For >250 To 500, Deduct	-251.62	
For >500, Deduct	-372.16	
26 54 19 00-0004    EA    7,095 Lumens, 62 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV7L).....	3,073.25	134.93
For Bolt-On Visor, Add	94.27	
For Bolt-On Wire Guard, Add	193.89	
For 480 Volt, Add	166.01	
For Warm White Color Rendering, Add	70.48	
For >50 To 100, Deduct	-82.45	
For >100 To 250, Deduct	-159.28	
For >250 To 500, Deduct	-307.33	
For >500, Deduct	-455.37	
26 54 19 00-0005    EA    9,132 Lumens, 79 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV9L).....	3,467.46	143.37
For Bolt-On Visor, Add	94.27	
For Bolt-On Wire Guard, Add	193.89	
For 480 Volt, Add	166.01	
For Warm White Color Rendering, Add	70.48	
For >50 To 100, Deduct	-92.66	
For >100 To 250, Deduct	-179.35	
For >250 To 500, Deduct	-346.75	
For >500, Deduct	-514.15	
26 54 19 00-0006    EA    11,107 Lumens, 99 Watt, Yoke Mount, Class I Division 2, NEMA 4X, 7 x 6 Optic, Glass Lens, LED Floodlight (Cooper Champ® FMV11L).....	3,872.50	151.79
For Bolt-On Visor, Add	94.27	
For Bolt-On Wire Guard, Add	193.89	
For 480 Volt, Add	166.01	
For Warm White Color Rendering, Add	70.48	
For >50 To 100, Deduct	-103.14	
For >100 To 250, Deduct	-199.95	
For >250 To 500, Deduct	-387.25	
For >500, Deduct	-574.55	
<b>26 54 19 00-0007</b> <b>Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC)</b> <small>(26 54 19 00-0001)</small> Note: Includes 5,600K CRI LED arrays, heat resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0008    EA    1,600 Lumens, 25 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Vaporgard™ V2LC).....	1,505.75	118.07
For 12/24 Volt DC Driver, Add	26.79	
For Frosted Lens, Add	54.75	
For Warm White Color Temperature LEDs, Add	70.48	
For 55 Degree Ambient Suitability (AC Only) Option, Add	36.48	
For Stanchion Mount, Add	225.86	
For Ceiling Mount, Add	90.57	
For Wall Mount, Add	132.21	
For Teflon Coated Lens, Add	116.21	
For Wall Mount With Junction Box, Add	193.04	
For >50 To 100, Deduct	-42.56	
For >100 To 250, Deduct	-80.21	
For >250 To 500, Deduct	-150.58	
For >500, Deduct	-220.94	
<b>26 54 19 00-0009</b> <b>Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV)</b> <small>(26 54 19 00-0001)</small> Note: Includes 5,600K CRI LED arrays, heat and impact resistant glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.		
26 54 19 00-0010    EA    3,240 Lumens, 47 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV3L).....	2,364.64	118.07
For Ceiling Mount, Add	17.33	
For Quick Clip Mounting Option, Add	25.46	
For Frosted Lens, Add	54.75	
For Warm White Color Rendering, Add	70.48	
For Polycarbonate Lens, Add	101.48	
For 480 Volt, Add	166.01	
For >50 To 100, Deduct	-64.04	
For >100 To 250, Deduct	-123.15	
For >250 To 500, Deduct	-236.46	
For >500, Deduct	-349.78	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Classified Location Lighting</b>	<b>26 54</b>	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 54 19 00-0011	EA	3,778 Lumens, 63 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV5L).....		2,617.23	126.49
		<i>For Ceiling Mount, Add</i>		17.33	
		<i>For Quick Clip Mounting Option, Add</i>		25.46	
		<i>For Frosted Lens, Add</i>		54.75	
		<i>For Warm White Color Rendering, Add</i>		70.48	
		<i>For Polycarbonate Lens, Add</i>		101.48	
		<i>For 480 Volt, Add</i>		166.01	
		<i>For &gt;50 To 100, Deduct</i>		-70.70	
		<i>For &gt;100 To 250, Deduct</i>		-136.13	
		<i>For &gt;250 To 500, Deduct</i>		-261.72	
		<i>For &gt;500, Deduct</i>		-387.31	
26 54 19 00-0012	EA	6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV7L).....		2,929.69	134.93
		<i>For Ceiling Mount, Add</i>		17.33	
		<i>For Quick Clip Mounting Option, Add</i>		25.46	
		<i>For Frosted Lens, Add</i>		54.75	
		<i>For Warm White Color Rendering, Add</i>		70.48	
		<i>For Polycarbonate Lens, Add</i>		101.48	
		<i>For 480 Volt, Add</i>		166.01	
		<i>For &gt;50 To 100, Deduct</i>		-78.86	
		<i>For &gt;100 To 250, Deduct</i>		-152.11	
		<i>For &gt;250 To 500, Deduct</i>		-292.97	
		<i>For &gt;500, Deduct</i>		-433.83	
26 54 19 00-0013	EA	6,340 Lumens, 98 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV9L).....		3,803.59	143.37
		<i>For Ceiling Mount, Add</i>		17.33	
		<i>For Quick Clip Mounting Option, Add</i>		25.46	
		<i>For Frosted Lens, Add</i>		54.75	
		<i>For Warm White Color Rendering, Add</i>		70.48	
		<i>For Polycarbonate Lens, Add</i>		101.48	
		<i>For 480 Volt, Add</i>		166.01	
		<i>For &gt;50 To 100, Deduct</i>		-101.06	
		<i>For &gt;100 To 250, Deduct</i>		-196.15	
		<i>For &gt;250 To 500, Deduct</i>		-380.36	
		<i>For &gt;500, Deduct</i>		-564.57	
26 54 19 00-0014	EA	9,720 Lumens, 137 Watt, Pendant Mount, Class I Division 2, Hazardous Location, NEMA 4X, LED Fixture (Cooper Champ® VMV11L).....		4,358.67	151.79
		<i>For Ceiling Mount, Add</i>		17.33	
		<i>For Quick Clip Mounting Option, Add</i>		25.46	
		<i>For Frosted Lens, Add</i>		54.75	
		<i>For Warm White Color Rendering, Add</i>		70.48	
		<i>For Polycarbonate Lens, Add</i>		101.48	
		<i>For 480 Volt, Add</i>		166.01	
		<i>For &gt;50 To 100, Deduct</i>		-115.29	
		<i>For &gt;100 To 250, Deduct</i>		-224.26	
		<i>For &gt;250 To 500, Deduct</i>		-435.87	
		<i>For &gt;500, Deduct</i>		-647.48	
26 54 19 00-0015		Class I Division 1, Explosion Proof, LED Fixtures <small>(26 54 19)</small>			
26 54 19 00-0016		Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL) <small>(26 54 19 00-0015)</small>			
		Note: Includes 5,600K CRI LED arrays, shatter resistant and explosion proof glass lens, silicone gaskets, stainless steel external hardware and powder coated aluminum housing.			
26 54 19 00-0017	EA	5,625 Lumens, 80 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL5L).....		3,786.05	126.49
		<i>For Wall Mount, Deduct</i>		-14.26	
		<i>For Warm Color Temperature LEDs, Add</i>		76.86	
		<i>For Stainless Steel Guard, Add</i>		137.97	
		<i>For Ceiling Mount, Add</i>		166.44	
		<i>For Stanchion Mount, Add</i>		193.71	
		<i>For Yoke Mount, Add</i>		484.27	
		<i>For &gt;50 To 100, Deduct</i>		-99.92	
		<i>For &gt;100 To 250, Deduct</i>		-194.57	
		<i>For &gt;250 To 500, Deduct</i>		-378.61	
		<i>For &gt;500, Deduct</i>		-562.64	
26 54 19 00-0018	EA	6,750 Lumens, 100 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL7L).....		4,595.75	134.93
		<i>For Wall Mount, Deduct</i>		-14.26	
		<i>For Warm Color Temperature LEDs, Add</i>		76.86	
		<i>For Stainless Steel Guard, Add</i>		137.97	
		<i>For Ceiling Mount, Add</i>		166.44	
		<i>For Stanchion Mount, Add</i>		193.71	
		<i>For Yoke Mount, Add</i>		484.27	
		<i>For &gt;50 To 100, Deduct</i>		-120.52	
		<i>For &gt;100 To 250, Deduct</i>		-235.41	
		<i>For &gt;250 To 500, Deduct</i>		-459.58	
		<i>For &gt;500, Deduct</i>		-683.74	

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 54</b>	<b>Classified Location Lighting</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 54	19 00-0019	EA	9,000 Lumens, 130 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL9L).....	5,333.22	143.37
			<i>For Wall Mount, Deduct</i>	-14.26	
			<i>For Warm Color Temperature LEDs, Add</i>	76.86	
			<i>For Stainless Steel Guard, Add</i>	137.97	
			<i>For Ceiling Mount, Add</i>	166.44	
			<i>For Stanchion Mount, Add</i>	193.71	
			<i>For Yoke Mount, Add</i>	484.27	
			<i>For &gt;50 To 100, Deduct</i>	-139.30	
			<i>For &gt;100 To 250, Deduct</i>	-272.63	
			<i>For &gt;250 To 500, Deduct</i>	-533.32	
			<i>For &gt;500, Deduct</i>	-794.01	
26 54	19 00-0020	EA	10,500 Lumens, 151 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL11L).....	6,084.17	151.79
			<i>For Wall Mount, Deduct</i>	-14.26	
			<i>For Warm Color Temperature LEDs, Add</i>	76.86	
			<i>For Stainless Steel Guard, Add</i>	137.97	
			<i>For Ceiling Mount, Add</i>	166.44	
			<i>For Stanchion Mount, Add</i>	193.71	
			<i>For Yoke Mount, Add</i>	484.27	
			<i>For &gt;50 To 100, Deduct</i>	-158.43	
			<i>For &gt;100 To 250, Deduct</i>	-310.53	
			<i>For &gt;250 To 500, Deduct</i>	-608.42	
			<i>For &gt;500, Deduct</i>	-906.30	
26 54	19 00-0021	EA	13,500 Lumens, 175 Watt, Pendant Mount, Class I Division 1, Explosion Proof, NEMA 4X, High Bay/Low Bay, LED Fixture (Cooper Hazard Gard® EVLL13L).....	7,043.40	146.17
			<i>For Wall Mount, Deduct</i>	-14.26	
			<i>For Warm Color Temperature LEDs, Add</i>	76.86	
			<i>For Stainless Steel Guard, Add</i>	137.97	
			<i>For Ceiling Mount, Add</i>	166.44	
			<i>For Stanchion Mount, Add</i>	193.71	
			<i>For Yoke Mount, Add</i>	484.27	
			<i>For &gt;50 To 100, Deduct</i>	-182.76	
			<i>For &gt;100 To 250, Deduct</i>	-358.85	
			<i>For &gt;250 To 500, Deduct</i>	-704.34	
			<i>For &gt;500, Deduct</i>	-1,049.83	

**26 55 Special Purpose Lighting** (26 50)

**26 55 13 Landscape Lighting** (26 55)

26 55	13 00-0001		<b>Bollards</b> <small>(26 55 13)</small> Note: Excludes concrete base.		
26 55	13 00-0002		<b>Aluminum Architectural Bollards</b> <small>(26 55 13 00-0001)</small>		
26 55	13 00-0003		<b>High Pressure Sodium, Aluminum Architectural Bollards</b> <small>(26 55 13 00-0002)</small>		
26 55	13 00-0004		<b>Square, High Pressure Sodium, Aluminum Architectural Bollards</b> <small>(26 55 13 00-0003)</small>		
26 55	13 00-0005	EA	24" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,631.22	130.75
26 55	13 00-0006	EA	30" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,646.60	138.44
26 55	13 00-0007	EA	36" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,661.98	146.13
26 55	13 00-0008	EA	42" Overall Height, 6-3/4" Square, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,545.10	153.82
26 55	13 00-0009	EA	24" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,631.22	130.75
26 55	13 00-0010	EA	30" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,646.60	138.44
26 55	13 00-0011	EA	36" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,661.98	146.13
26 55	13 00-0012	EA	42" Overall Height, 6-3/4" Square, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,545.10	153.82
26 55	13 00-0013	EA	24" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,631.22	130.75
26 55	13 00-0014	EA	30" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,646.60	138.44
26 55	13 00-0015	EA	36" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,661.98	146.13
26 55	13 00-0016	EA	42" Overall Height, 6-3/4" Square, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,545.10	153.82
26 55	13 00-0017	EA	24" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,631.22	130.75
26 55	13 00-0018	EA	30" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,646.60	138.44
26 55	13 00-0019	EA	36" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,661.98	146.13
26 55	13 00-0020	EA	42" Overall Height, 6-3/4" Square, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,545.10	153.82
26 55	13 00-0021		<b>Round, High Pressure Sodium, Aluminum Architectural Bollards</b> <small>(26 55 13 00-0003)</small>		
26 55	13 00-0022	EA	24" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,570.48	130.75
26 55	13 00-0023	EA	30" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,585.86	138.44
26 55	13 00-0024	EA	36" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,601.24	146.13
26 55	13 00-0025	EA	42" Overall Height, 7" Diameter, 35 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,483.81	153.82
26 55	13 00-0026	EA	24" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,570.48	130.75
26 55	13 00-0027	EA	30" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,585.86	138.44
26 55	13 00-0028	EA	36" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,601.24	146.13
26 55	13 00-0029	EA	42" Overall Height, 7" Diameter, 50 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,483.81	153.82
26 55	13 00-0030	EA	24" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,570.48	130.75
26 55	13 00-0031	EA	30" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,585.86	138.44
26 55	13 00-0032	EA	36" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,601.24	146.13
26 55	13 00-0033	EA	42" Overall Height, 7" Diameter, 70 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,483.81	153.82
26 55	13 00-0034	EA	24" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,570.48	130.75
26 55	13 00-0035	EA	30" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,585.86	138.44
26 55	13 00-0036	EA	36" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,601.24	146.13
26 55	13 00-0037	EA	42" Overall Height, 7" Diameter, 100 Watt High Pressure Sodium, Aluminum Architectural Bollard .....	1,483.81	153.82



<b>Electrical</b>	<b>26</b>	
<b>Lighting</b>	<b>26 50</b>	<b>26</b>
<b>Special Purpose Lighting</b>	<b>26 55</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 55 13 00-0038</b> Metal Halide, Aluminum Architectural Bollards <small>(26 55 13 00-0002)</small>		
<b>26 55 13 00-0039</b> Square, Metal Halide, Aluminum Architectural Bollards <small>(26 55 13 00-0038)</small>		
26 55 13 00-0040 EA 24" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard .....	1,710.09	130.75
26 55 13 00-0041 EA 30" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard .....	1,725.47	138.44
26 55 13 00-0042 EA 36" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard .....	1,740.85	146.13
26 55 13 00-0043 EA 42" Overall Height, 6-3/4" Square, 50 Watt Metal Halide, Aluminum Architectural Bollard .....	1,623.41	153.82
26 55 13 00-0044 EA 24" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard .....	1,710.09	130.75
26 55 13 00-0045 EA 30" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard .....	1,725.47	138.44
26 55 13 00-0046 EA 36" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard .....	1,740.85	146.13
26 55 13 00-0047 EA 42" Overall Height, 6-3/4" Square, 70 Watt Metal Halide, Aluminum Architectural Bollard .....	1,623.41	153.82
26 55 13 00-0048 EA 24" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard .....	1,710.09	130.75
26 55 13 00-0049 EA 30" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard .....	1,725.47	138.44
26 55 13 00-0050 EA 36" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard .....	1,740.85	146.13
26 55 13 00-0051 EA 42" Overall Height, 6-3/4" Square, 100 Watt Metal Halide, Aluminum Architectural Bollard .....	1,689.41	153.82
<b>26 55 13 00-0052</b> Round, Metal Halide, Aluminum Architectural Bollards <small>(26 55 13 00-0038)</small>		
26 55 13 00-0053 EA 24" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard .....	1,648.79	130.75
26 55 13 00-0054 EA 30" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard .....	1,664.17	138.44
26 55 13 00-0055 EA 36" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard .....	1,679.55	146.13
26 55 13 00-0056 EA 42" Overall Height, 7" Diameter, 50 Watt Metal Halide, Aluminum Architectural Bollard .....	1,562.12	153.82
26 55 13 00-0057 EA 24" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard .....	1,648.79	130.75
26 55 13 00-0058 EA 30" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard .....	1,664.17	138.44
26 55 13 00-0059 EA 36" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard .....	1,679.55	146.13
26 55 13 00-0060 EA 42" Overall Height, 7" Diameter, 70 Watt Metal Halide, Aluminum Architectural Bollard .....	1,562.12	153.82
26 55 13 00-0061 EA 24" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard .....	1,648.79	130.75
26 55 13 00-0062 EA 30" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard .....	1,664.17	138.44
26 55 13 00-0063 EA 36" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard .....	1,679.55	146.13
26 55 13 00-0064 EA 42" Overall Height, 7" Diameter, 100 Watt Metal Halide, Aluminum Architectural Bollard .....	1,562.12	153.82
<b>26 55 13 00-0065</b> Compact Fluorescent, Aluminum Architectural Bollards <small>(26 55 13 00-0002)</small>		
<b>26 55 13 00-0066</b> Square, Compact Fluorescent, Aluminum Architectural Bollards <small>(26 55 13 00-0065)</small>		
26 55 13 00-0067 EA 24" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,624.30	130.75
26 55 13 00-0068 EA 30" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,639.68	138.44
26 55 13 00-0069 EA 36" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,655.06	146.13
26 55 13 00-0070 EA 42" Overall Height, 6-3/4" Square, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,539.43	153.82
26 55 13 00-0071 EA 24" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,624.30	130.75
26 55 13 00-0072 EA 30" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,639.68	138.44
26 55 13 00-0073 EA 36" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,655.06	146.13
26 55 13 00-0074 EA 42" Overall Height, 6-3/4" Square, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,539.43	153.82
26 55 13 00-0075 EA 24" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,624.30	130.75
26 55 13 00-0076 EA 30" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,639.68	138.44
26 55 13 00-0077 EA 36" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,655.06	146.13
26 55 13 00-0078 EA 42" Overall Height, 6-3/4" Square, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,539.43	153.82
<b>26 55 13 00-0079</b> Round, Compact Fluorescent, Aluminum Architectural Bollards <small>(26 55 13 00-0065)</small>		
26 55 13 00-0080 EA 24" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,564.35	130.75
26 55 13 00-0081 EA 30" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,579.73	138.44
26 55 13 00-0082 EA 36" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,595.11	146.13
26 55 13 00-0083 EA 42" Overall Height, 7" Diameter, 26 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,480.63	153.82
26 55 13 00-0084 EA 24" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,564.35	130.75
26 55 13 00-0085 EA 30" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,579.73	138.44
26 55 13 00-0086 EA 36" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,595.11	146.13
26 55 13 00-0087 EA 42" Overall Height, 7" Diameter, 32 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,480.63	153.82
26 55 13 00-0088 EA 24" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,564.35	130.75
26 55 13 00-0089 EA 30" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,579.73	138.44
26 55 13 00-0090 EA 36" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,595.11	146.13
26 55 13 00-0091 EA 42" Overall Height, 7" Diameter, 42 Watt Compact Fluorescent, Aluminum Architectural Bollard .....	1,480.63	153.82
<b>26 55 13 00-0092</b> LED, Aluminum Architectural Bollards <small>(26 55 13 00-0002)</small>		
<b>26 55 13 00-0093</b> Square, LED, Aluminum Architectural Bollards <small>(26 55 13 00-0092)</small>		
26 55 13 00-0094 EA 24" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard .....	1,935.61	130.75
26 55 13 00-0095 EA 30" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard .....	1,950.99	138.44
26 55 13 00-0096 EA 36" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard .....	1,966.37	146.13
26 55 13 00-0097 EA 42" Overall Height, 6-3/4" Square, 12 LEDs, Aluminum Architectural Bollard .....	1,852.39	153.82
26 55 13 00-0098 EA 24" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard .....	2,352.98	130.75
26 55 13 00-0099 EA 30" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard .....	2,368.36	138.44
26 55 13 00-0100 EA 36" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard .....	2,383.74	146.13
26 55 13 00-0101 EA 42" Overall Height, 6-3/4" Square, 24 LEDs, Aluminum Architectural Bollard .....	2,267.69	153.82
<b>26 55 13 00-0102</b> Round, LED, Aluminum Architectural Bollards <small>(26 55 13 00-0092)</small>		
26 55 13 00-0103 EA 24" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard .....	1,873.35	130.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 13 00-0104 EA 30" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,888.73	138.44
26 55 13 00-0105 EA 36" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,904.11	146.13
26 55 13 00-0106 EA 42" Overall Height, 7" Diameter, 12 LEDs, Aluminum Architectural Bollard.....	1,788.06	153.82
26 55 13 00-0107 EA 24" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,290.72	130.75
26 55 13 00-0108 EA 30" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,306.10	138.44
26 55 13 00-0109 EA 36" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,321.48	146.13
26 55 13 00-0110 EA 42" Overall Height, 7" Diameter, 24 LEDs, Aluminum Architectural Bollard.....	2,206.17	153.82
<b>26 55 13 00-0111 Reinforced Concrete Bollards</b> <small>(26 55 13 00-0001)</small>		
26 55 13 00-0112 EA 48" Overall Height, 12" Diameter, LED Light, Reinforced Concrete Bollard.....	1,708.82	384.55
26 55 13 00-0113 EA 58" Overall Height, 18" Diameter, High Intensity Discharge (HID) Light, Reinforced Concrete Bollard .....	2,942.70	512.68
<b>26 55 13 00-0114 Low Voltage</b> <small>(26 55 13)</small>		
26 55 13 00-0115 EA Low Voltage Recessed Uplight .....	838.68	279.96
26 55 13 00-0116 EA Low Voltage Walkway.....	558.99	153.82
26 55 13 00-0117 EA Low Voltage Malibu - 5 Light Set .....	593.51	205.35
26 55 13 00-0118 EA Low Voltage Mushroom 24" Pier.....	495.01	153.82
<b>26 55 13 00-0119 Recessed, Adjustable</b> <small>(26 55 13)</small>		
26 55 13 00-0120 EA 150 Watt Incandescent Recessed, Adjustable.....	917.19	246.12
26 55 13 00-0121 EA 300 Watt Incandescent Recessed, Adjustable.....	985.74	246.12
<b>26 55 13 00-0122 Recessed, Uplight</b> <small>(26 55 13)</small>		
26 55 13 00-0123 EA 50 Watt Incandescent Recessed Uplight .....	839.51	246.12
26 55 13 00-0124 EA 150 Watt Incandescent Recessed Uplight .....	853.22	246.12
26 55 13 00-0125 EA 300 Watt Incandescent Recessed Uplight .....	894.34	246.12
26 55 13 00-0126 EA 500 Watt Quartz Recessed Uplight.....	889.77	246.12
26 55 13 00-0127 EA 5 Watt, LED Recessed Uplight .....	1,254.13	246.12
26 55 13 00-0128 EA 15 Watt, LED Recessed Uplight .....	1,370.42	246.12
<b>26 55 13 00-0129 Recessed Wall Light</b> <small>(26 55 13)</small>		
26 55 13 00-0130 EA 100 Watt Incandescent Recessed Wall Light.....	453.88	153.82
26 55 13 00-0131 EA 100 Watt Fluorescent Recessed Wall Light .....	440.17	153.82
26 55 13 00-0132 EA 100 Watt High Intensity Discharge (HID) Recessed Wall Light.....	680.34	205.35
<b>26 55 13 00-0133 Step Lights</b> <small>(26 55 13)</small>		
26 55 13 00-0134 EA Incandescent Step Light .....	369.43	123.05
26 55 13 00-0135 EA Fluorescent Step Light.....	415.20	123.05
26 55 13 00-0136 EA 5 Watt, LED Step Light .....	684.12	123.05
26 55 13 00-0137 EA 15 Watt, LED Step Light .....	808.16	123.05
<b>26 55 13 00-0138 Tree Lights, Surface Adjustable</b> <small>(26 55 13)</small>		
26 55 13 00-0139 EA 50 Watt Incandescent Tree Lights .....	739.75	205.35
26 55 13 00-0140 EA 100 Watt Incandescent Tree Lights .....	753.46	205.35
26 55 13 00-0141 EA 150 Watt Incandescent Tree Lights .....	980.87	307.65
<b>26 55 16 Walkway Lighting</b> <small>(26 55)</small>		
<b>26 55 16 00-0001 Incandescent Walkway</b> <small>(26 55 16)</small>		
26 55 16 00-0002 EA Post Top 300 Watt Incandescent Walkway Fixture.....	461.88	143.05
<b>26 55 16 00-0003 Metal Halide Walkway</b> <small>(26 55 16)</small>		
26 55 16 00-0004 EA Post Top 100 Watt Metal Halide Walkway Fixture .....	712.26	224.88
26 55 16 00-0005 EA Post Top 150-175 Watt Metal Halide Walkway Fixture .....	751.45	233.04
26 55 16 00-0006 EA Post Top 250 Watt Metal Halide Walkway Fixture .....	805.08	241.96
26 55 16 00-0007 EA Post Top 400 Watt Metal Halide Walkway Fixture .....	863.60	261.50
26 55 16 00-0008 EA Round Luminaries 100 Watt Metal Halide Walkway Fixture .....	774.48	241.96
26 55 16 00-0009 EA Round Luminaries 150-175 Watt Metal Halide Walkway Fixture .....	771.14	224.88
26 55 16 00-0010 EA Round Luminaries 250 Watt Metal Halide Walkway Fixture .....	788.20	233.04
26 55 16 00-0011 EA Spherical 100 Watt Metal Halide Walkway Fixture .....	611.23	160.28
26 55 16 00-0012 EA Spherical 150-175 Watt Metal Halide Walkway Fixture .....	641.84	160.28
26 55 16 00-0013 EA Spherical 250 Watt Metal Halide Walkway Fixture .....	672.44	160.28
26 55 16 00-0014 EA Spherical 400 Watt Metal Halide Walkway Fixture .....	758.97	180.43
26 55 16 00-0015 EA Low Walkway 100 Watt Metal Halide Walkway Fixture.....	578.82	143.98
<b>26 55 16 00-0016 High Pressure Sodium Walkway</b> <small>(26 55 16)</small>		
26 55 16 00-0017 EA Post Top 100 Watt High Pressure Sodium Walkway Fixture .....	654.84	224.88
26 55 16 00-0018 EA Post Top 150-175 Watt High Pressure Sodium Walkway Fixture .....	689.03	233.04
26 55 16 00-0019 EA Post Top 250 Watt High Pressure Sodium Walkway Fixture .....	734.78	241.96



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 16 00-0020 EA Post Top 400 Watt High Pressure Sodium Walkway Fixture .....	789.14	261.50
26 55 16 00-0021 EA Round Luminaries 100 Watt High Pressure Sodium Walkway Fixture .....	710.87	241.96
26 55 16 00-0022 EA Round Luminaries 150-175 Watt High Pressure Sodium Walkway Fixture .....	700.84	224.88
26 55 16 00-0023 EA Round Luminaries 250 Watt High Pressure Sodium Walkway Fixture .....	717.74	233.04
26 55 16 00-0024 EA Spherical 100 Watt High Pressure Sodium Walkway Fixture .....	547.62	160.28
26 55 16 00-0025 EA Spherical 175 150-Watt High Pressure Sodium Walkway Fixture .....	571.54	160.28
26 55 16 00-0026 EA Spherical 250 Watt High Pressure Sodium Walkway Fixture .....	595.45	160.28
26 55 16 00-0027 EA Spherical 400 Watt High Pressure Sodium Walkway Fixture .....	671.94	180.43
26 55 16 00-0028 EA Low Walkway 100 Watt High Pressure Sodium Walkway Fixture.....	502.22	143.98
<b>26 55 16 00-0029 Walkway, Adjustable (26 55 16)</b>		
26 55 16 00-0030 EA 2' Fluorescent Adjustable Walkway Fixture .....	667.44	205.35
26 55 16 00-0031 EA 4' Fluorescent Adjustable Walkway Fixture .....	682.54	205.35
26 55 16 00-0032 EA 8' Fluorescent Adjustable Walkway Fixture .....	1,148.85	307.65
26 55 16 00-0033 EA 50 Watt Incandescent Adjustable Walkway Fixture .....	549.27	153.82
26 55 16 00-0034 EA 150 Watt Incandescent Adjustable Walkway Fixture .....	569.40	153.82
<b>26 55 16 00-0035 LED Walkway (26 55 16)</b>		
<b>26 55 16 00-0036 LED Pathway Fixtures (CREE® BetaLED® Edge® PWY-EDG) (26 55 16 00-0035)</b>		
Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 16 00-0037 EA 13" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) .....	1,039.81	118.07
For Multi-Level Drive Currents, Add	267.03	
26 55 16 00-0038 EA 18" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) .....	1,072.23	118.07
For Multi-Level Drive Currents, Add	267.03	
26 55 16 00-0039 EA 36" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) .....	1,129.45	118.07
For Multi-Level Drive Currents, Add	267.03	
26 55 16 00-0040 EA 42" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) .....	1,173.32	118.07
For Multi-Level Drive Currents, Add	267.03	
26 55 16 00-0041 EA 96" Height, 1,248 Lumens, 22 Watt, LED Pathway Fixture (CREE® BetaLED® Edge® PWY-EDG) .....	1,353.53	151.79
For Multi-Level Drive Currents, Add	267.03	
<b>26 55 16 00-0042 Wall Mounted Walkway Lighting (26 55 16 00-0035)</b>		
26 55 16 00-0043 EA Wall Mounted Lantern With LED Kit, No. PDEX-Bracket (Herwig P-492).....	4,530.41	
Note: Type Fixture 17 as Post		
<b>26 55 16 00-0044 Pole Mounted Walkway Lighting (26 55 16 00-0035)</b>		
26 55 16 00-0045 EA 43-1/2" Height x 19" Diameter, LED Post Lantern (Herwig AP-27).....	4,188.21	
26 55 16 00-0046 EA 12" Tapered and Fluted Post (Herwig BRA Series, BRAJ-12) .....	4,113.53	
Note: Washers and nuts included		
<b>26 55 29 Underwater Lighting (26 55)</b>		
<b>26 55 29 00-0001 Underwater Lights (26 55 29)</b>		
26 55 29 00-0002 EA 150 Watt, 120 Volt Underwater Lights .....	556.48	102.29
26 55 29 00-0003 EA 300 Watt, 120 Volt Underwater Lights .....	611.31	102.29
26 55 29 00-0004 EA 1,000 Watt, 120 Volt Underwater Lights .....	1,427.26	153.82
26 55 29 00-0005 EA 50 Watt, 12 Volt Underwater Lights .....	579.33	102.29
26 55 29 00-0006 EA 300 Watt, 12 Volt Underwater Lights .....	643.30	102.29
26 55 29 00-0007 SET Under Water Fountain Fixture, Set Of 6, 300 Watt, Incandescent .....	1,626.47	230.73
<b>26 55 53 Security Lighting (26 55)</b>		
<b>26 55 53 11 Security Flood Lighting (26 55 53)</b>		
26 55 53 11-0001 General Electric Powerflood® Flood Lights (26 55 53 11)		
26 55 53 11-0002 MPF (Small Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For perimeters, entrances, building facades and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. 1/2" threaded mounting knuckle.		
26 55 53 11-0003 High Pressure Sodium MPF Series GE Flood Lights (26 55 53 11-0002)		
26 55 53 11-0004 EA 70 Watt High Pressure Sodium MPF Series GE Flood Light .....	423.26	125.57
26 55 53 11-0005 EA 100 Watt High Pressure Sodium MPF Series GE Flood Light .....	426.70	125.57
26 55 53 11-0006 EA 150 Watt High Pressure Sodium MPF Series GE Flood Light .....	432.44	125.57
26 55 53 11-0007 Metal Halide MPF Series GE Flood Lights (26 55 53 11-0002)		
26 55 53 11-0008 EA 70 Watt Metal Halide MPF Series GE Flood Light .....	559.80	125.57
26 55 53 11-0009 P-154 (Small Size) Series GE Flood Lights (26 55 53 11-0001)		
Note: For parking lots, building security, building facades, recreation areas and sign lighting. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 55</b>	<b>Special Purpose Lighting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 55 53 11-0010</b>	<b>High Pressure Sodium P-154 Series GE Flood Lights</b> <small>(26 55 53 11-0009)</small>	
26 55 53 11-0011 EA 70 Watt High Pressure Sodium P-154 Series GE Flood Light .....	829.40	167.43
26 55 53 11-0012 EA 100 Watt High Pressure Sodium P-154 Series GE Flood Light .....	833.99	167.43
26 55 53 11-0013 EA 150 Watt High Pressure Sodium P-154 Series GE Flood Light .....	842.02	167.43
26 55 53 11-0014 EA 250 Watt High Pressure Sodium P-154 Series GE Flood Light .....	932.67	167.43
26 55 53 11-0015 EA 400 Watt High Pressure Sodium P-154 Series GE Flood Light .....	959.06	167.43
<b>26 55 53 11-0016</b>	<b>Metal Halide P-154 Series GE Flood Lights</b> <small>(26 55 53 11-0009)</small>	
26 55 53 11-0017 EA 175 Watt Metal Halide P-154 Series GE Flood Light .....	821.37	167.43
26 55 53 11-0018 EA 250 Watt Metal Halide P-154 Series GE Flood Light .....	861.53	167.43
26 55 53 11-0019 EA 400 Watt Metal Halide P-154 Series GE Flood Light .....	882.18	167.43
<b>26 55 53 11-0020</b>	<b>PF-154 (Medium Size) Series GE Flood Lights</b> <small>(26 55 53 11-0001)</small>	
Note: For parking lots, building security and building facades. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0021</b>	<b>High Pressure Sodium PF-154 Series GE Flood Lights</b> <small>(26 55 53 11-0020)</small>	
26 55 53 11-0022 EA 70 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	851.75	188.36
26 55 53 11-0023 EA 100 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	857.49	188.36
26 55 53 11-0024 EA 150 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	866.67	188.36
26 55 53 11-0025 EA 250 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	956.17	188.36
26 55 53 11-0026 EA 400 Watt High Pressure Sodium PF-154 Series GE Flood Light .....	981.41	188.36
<b>26 55 53 11-0027</b>	<b>Metal Halide PF-154 GE Flood Lights</b> <small>(26 55 53 11-0020)</small>	
26 55 53 11-0028 EA 175 Watt Metal Halide PF-154 Series GE Flood Light .....	844.87	188.36
26 55 53 11-0029 EA 250 Watt Metal Halide PF-154 Series GE Flood Light .....	883.88	188.36
26 55 53 11-0030 EA 400 Watt Metal Halide PF-154 Series GE Flood Light .....	904.53	188.36
<b>26 55 53 11-0031</b>	<b>PF-400 (Medium Size) Series GE Flood Lights</b> <small>(26 55 53 11-0001)</small>	
Note: For parking lots, building security, building facades, shipping yards and rail yards. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0032</b>	<b>High Pressure Sodium PF-400 Series GE Flood Lights</b> <small>(26 55 53 11-0031)</small>	
26 55 53 11-0033 EA 150 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	1,122.54	188.36
26 55 53 11-0034 EA 200 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	1,202.86	188.36
26 55 53 11-0035 EA 250 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	1,197.12	188.36
26 55 53 11-0036 EA 400 Watt High Pressure Sodium PF-400 Series GE Flood Light .....	1,225.81	188.36
<b>26 55 53 11-0037</b>	<b>Metal Halide PF-400 GE Flood Lights</b> <small>(26 55 53 11-0031)</small>	
26 55 53 11-0038 EA 175 Watt Metal Halide PF-400 Series GE Flood Light .....	1,152.37	188.36
26 55 53 11-0039 EA 250 Watt Metal Halide PF-400 Series GE Flood Light .....	1,176.47	188.36
26 55 53 11-0040 EA 400 Watt Metal Halide PF-400 Series GE Flood Light .....	1,201.71	188.36
<b>26 55 53 11-0041</b>	<b>PF-1000 (Large Size) Series GE Flood Lights</b> <small>(26 55 53 11-0001)</small>	
Note: For parking lots, industrial yards and sports stadiums. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Formed aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0042</b>	<b>High Pressure Sodium PF-1000 Series GE Flood Lights</b> <small>(26 55 53 11-0041)</small>	
26 55 53 11-0043 EA 750 Watt High Pressure Sodium PF-1000 Series GE Flood Light .....	1,507.46	209.30
26 55 53 11-0044 EA 1,000 Watt High Pressure Sodium PF-1000 Series GE Flood Light .....	1,507.46	209.30
<b>26 55 53 11-0045</b>	<b>Metal Halide PF-1000 Series GE Flood Lights</b> <small>(26 55 53 11-0041)</small>	
26 55 53 11-0046 EA 1,000 Watt Metal Halide PF-1000 Series GE Flood Light .....	1,440.91	209.30
<b>26 55 53 11-0047</b>	<b>HLU/VLU (Medium Size) FRP Series GE Flood Lights</b> <small>(26 55 53 11-0001)</small>	
Note: For parking lots, industrial yards, construction sites, recreation areas and facades. Includes corrosion resistant reinforced polyester housing and thermal shock resistant lens. Hydroformed aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0048</b>	<b>High Pressure Sodium HLU/VLU FRP Series GE Flood Lights</b> <small>(26 55 53 11-0047)</small>	
26 55 53 11-0049 EA 250 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light .....	1,232.69	188.36
26 55 53 11-0050 EA 400 Watt High Pressure Sodium HLU/VLU FRP Series GE Flood Light .....	1,254.49	188.36
<b>26 55 53 11-0051</b>	<b>Metal Halide HLU/VLU Series GE Flood Lights</b> <small>(26 55 53 11-0047)</small>	
26 55 53 11-0052 EA 400 Watt Metal Halide HLU/VLU FRP Series GE Flood Light .....	1,245.31	188.36
<b>26 55 53 11-0053</b>	<b>Accessories For Powerflood GE Flood Lights</b> <small>(26 55 53 11-0001)</small>	
26 55 53 11-0054 EA Wireguard For Powerflood GE Flood Light .....	215.66	41.86



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0055 EA Polycarbonate Vandal Shield For Powerflood GE Flood Light.....	130.75	41.86
26 55 53 11-0056 EA Top Visor For Powerflood Flood Light .....	183.53	41.86
26 55 53 11-0057 EA Top And Two Side Visors For Powerflood GE Flood Light .....	143.37	41.86
26 55 53 11-0058 EA Pipe Wall Mounting Bracket For Powerflood GE Flood Light.....	368.18	125.57
26 55 53 11-0059 EA Multiple Mounting Channel For Powerflood GE Flood Light .....	156.00	41.86
26 55 53 11-0060 EA Wall Or Flat Surface Bracket For Powerflood GE Flood Light .....	282.13	125.57
26 55 53 11-0061 EA Steel Angle Bracket For Powerflood GE Flood Light .....	292.46	125.57
26 55 53 11-0062 EA Cross Arm Adaptor For Powerflood GE Flood Light .....	120.43	41.86
26 55 53 11-0063 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Powerflood GE Flood Light .....	116.98	41.86
<b>26 55 53 11-0064 Lithionia Contour Series Flood Lights (26 55 53 11)</b>		
<b>26 55 53 11-0065 TFM (Small Size) Series Lithonia Flood Lights (26 55 53 11-0064)</b>		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Faceted parabolic optics. 1/2" threaded mounting knuckle.		
<b>26 55 53 11-0066 High Pressure Sodium TFM Series Lithonia Flood Lights (26 55 53 11-0065)</b>		
26 55 53 11-0067 EA 70 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	768.31	167.43
26 55 53 11-0068 EA 100 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	834.56	167.43
26 55 53 11-0069 EA 150 Watt High Pressure Sodium TFM Series Lithonia Flood Light.....	899.44	167.43
<b>26 55 53 11-0070 Metal Halide TFM Series Lithonia Flood Lights (26 55 53 11-0065)</b>		
26 55 53 11-0071 EA 50 Watt Metal Halide TFM Series Lithonia Flood Light.....	980.40	167.43
26 55 53 11-0072 EA 70 Watt Metal Halide TFM Series Lithonia Flood Light.....	964.45	167.43
26 55 53 11-0073 EA 100 Watt Metal Halide TFM Series Lithonia Flood Light.....	938.75	167.43
26 55 53 11-0074 EA 175 Watt Metal Halide TFM Series Lithonia Flood Light.....	936.84	167.43
<b>26 55 53 11-0075 Compact Fluorescent TFM Series Lithonia Flood Lights (26 55 53 11-0065)</b>		
26 55 53 11-0076 EA 42 Watt Compact Fluorescent TFM Series Lithonia Flood Light.....	973.79	167.43
<b>26 55 53 11-0077 TFL (Medium Size) Series Lithonia Flood Lights (26 55 53 11-0064)</b>		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0078 High Pressure Sodium TFL Series Lithonia Flood Lights (26 55 53 11-0077)</b>		
26 55 53 11-0079 EA 250 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,155.40	188.36
26 55 53 11-0080 EA 400 Watt High Pressure Sodium TFL Series Lithonia Flood Light.....	1,177.50	188.36
<b>26 55 53 11-0081 Metal Halide TFL Series Lithonia Flood Lights (26 55 53 11-0077)</b>		
26 55 53 11-0082 EA 175 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,105.74	188.36
26 55 53 11-0083 EA 250 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,105.74	188.36
26 55 53 11-0084 EA 400 Watt Metal Halide TFL Series Lithonia Flood Light.....	1,140.39	188.36
<b>26 55 53 11-0085 TFR (Low Profile) Series Lithonia Flood Lights (26 55 53 11-0064)</b>		
Note: For recreation areas, parking lots, building facades and car lots. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0086 High Pressure Sodium TFR Lithonia Flood Lights (26 55 53 11-0085)</b>		
26 55 53 11-0087 EA 150 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light .....	1,102.53	167.43
26 55 53 11-0088 EA 250 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light .....	1,135.59	167.43
26 55 53 11-0089 EA 400 Watt High Pressure Sodium Horizontal TFR Series Lithonia Flood Light .....	1,163.22	167.43
<b>26 55 53 11-0090 Metal Halide TFR Lithonia Flood Lights (26 55 53 11-0085)</b>		
26 55 53 11-0091 EA 250 Watt Metal Halide TFR Series Lithonia Flood Light .....	1,091.47	167.43
26 55 53 11-0092 EA 400 Watt Metal Halide TFR Series Lithonia Flood Light .....	1,124.58	167.43
<b>26 55 53 11-0093 TFA (Large Size) Series Lithonia Flood Lights (26 55 53 11-0064)</b>		
Note: For industrial yards, parking lots, construction sites, streets and recreational areas. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Anodized aluminum reflector. Yoke or slip fitter mounting.		
<b>26 55 53 11-0094 High Pressure Sodium TFA Series Lithonia Flood Lights (26 55 53 11-0093)</b>		
26 55 53 11-0095 EA 1,000 Watt High Pressure Sodium TFA Series Lithonia Flood Light.....	2,102.69	209.30
<b>26 55 53 11-0096 Metal Halide TFA Series Lithonia Flood Lights (26 55 53 11-0093)</b>		
26 55 53 11-0097 EA 400 Watt Metal Halide TFA Series Lithonia Flood Light .....	1,633.33	209.30
26 55 53 11-0098 EA 1,000 Watt Metal Halide TFA Series Lithonia Flood Light .....	1,798.97	209.30
<b>26 55 53 11-0099 Accessories For Contour Series Lithonia Flood Lights (26 55 53 11-0064)</b>		

**26 Electrical**  
**26 50 Lighting**  
**26 55 Special Purpose Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0100	EA		Wireguard For Contour Series Lithonia Flood Light.....	187.83	41.86
26 55 53 11-0101	EA		Vandal Guard For Contour Series Lithonia Flood Light.....	350.41	41.86
26 55 53 11-0102	EA		Upper Visor For Contour Series Lithonia Flood Light.....	157.14	41.86
26 55 53 11-0103	EA		Full Visor For Contour Series Lithonia Flood Light.....	206.83	41.86
26 55 53 11-0104	EA		Pipe Wall Mounting Bracket For Contour Series Lithonia Flood Light.....	471.98	125.57
26 55 53 11-0105	EA		Radius Wall Bracket For Contour Series Lithonia Flood Light.....	384.06	125.57
26 55 53 11-0106	EA		Steel Angle Bracket For Contour Series Lithonia Flood Light.....	384.06	125.57
26 55 53 11-0107	EA		U Bolt Wall Bracket For Contour Series Lithonia Flood Light, Mounts To 2" Pipe.....	419.13	125.57
26 55 53 11-0108	EA		Crossarm Adapter For Horizontal Mounted Contour Lithonia Series Flood Light.....	180.28	41.86
26 55 53 11-0109	EA		120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Contour Lithonia Series Flood Light.....	146.59	41.86
<b>26 55 53 11-0110</b>			<b>Eaton Flood Lights (26 55 53 11)</b>		
26 55 53 11-0111	EA		6" x 6", 16,932 Lumens, 128 Watt, LED Flood Light (Eaton NFFLD-C40-D-UNV-66-T-CB).....	1,176.65	167.43
			For NEMA Photocontrol Option (Eaton OA/RA1016), Add	59.40	
			For >50 To 100, Deduct	-37.79	
			For >100 To 250, Deduct	-67.20	
			For >250 To 500, Deduct	-117.67	
			For >500, Deduct	-168.13	
26 55 53 11-0112	EA		16,900 Lumens, 128 Watt, NEMA 6H x 6V Wide, Trunnion Mount, 4000K CCT, Night Falcon LED Flood Light With Multi-Tap (Cooper Industries NFFLD-C40-D-UNV-66-T-CB-PER7+OA/RA1016).....	1,457.45	185.55
			For >50 To 100, Deduct	-45.71	
			For >100 To 250, Deduct	-82.15	
			For >250 To 500, Deduct	-145.75	
			For >500, Deduct	-209.34	
<b>26 55 53 11-0113</b>			<b>Ruud Flood Lights (26 55 53 11)</b>		
<b>26 55 53 11-0114</b>			<b>NS (Micro) Series Ruud Flood Lights (26 55 53 11-0113)</b>		
			Note: Provides conventional floodlighting. 1/2" threaded mounting knuckle.		
<b>26 55 53 11-0115</b>			<b>High Pressure Sodium NS Series Ruud Flood Lights (26 55 53 11-0114)</b>		
26 55 53 11-0116	EA		35 Watt High Pressure Sodium NS Series Ruud Flood Light.....	510.46	125.57
26 55 53 11-0117	EA		50 Watt High Pressure Sodium NS Series Ruud Flood Light.....	510.46	125.57
26 55 53 11-0118	EA		70 Watt High Pressure Sodium NS Series Ruud Flood Light.....	510.46	125.57
26 55 53 11-0119	EA		100 Watt High Pressure Sodium NS Series Ruud Flood Light.....	510.46	125.57
26 55 53 11-0120	EA		150 Watt High Pressure Sodium NS Series Ruud Flood Light.....	510.46	125.57
<b>26 55 53 11-0121</b>			<b>Metal Halide NS Series Ruud Flood Lights (26 55 53 11-0114)</b>		
26 55 53 11-0122	EA		50 Watt Metal Halide NS Series Ruud Flood Light.....	574.72	125.57
26 55 53 11-0123	EA		70 Watt Metal Halide NS Series Ruud Flood Light.....	574.72	125.57
26 55 53 11-0124	EA		100 Watt Metal Halide NS Series Ruud Flood Light.....	574.72	125.57
<b>26 55 53 11-0125</b>			<b>Compact Fluorescent NS Series Ruud Flood Lights (26 55 53 11-0114)</b>		
26 55 53 11-0126	EA		13 Watt Compact Fluorescent NS Series Ruud Flood Light.....	443.91	125.57
26 55 53 11-0127	EA		26 Watt Compact Fluorescent NS Series Ruud Flood Light.....	459.98	125.57
26 55 53 11-0128	EA		32 Watt Compact Fluorescent NS Series Ruud Flood Light.....	464.57	125.57
26 55 53 11-0129	EA		42 Watt Compact Fluorescent NS Series Ruud Flood Light.....	469.16	125.57
<b>26 55 53 11-0130</b>			<b>NSF/NSW/NSC (Standard, Wide And Cutoff Micro) Series Ruud Flood Lights (26 55 53 11-0113)</b>		
			Note: The NSF is suited for large open areas and façade applications. The NSW is suited for roadway applications, parking areas or security. The NSC is designed for parking lot and outdoor sports areas. Yoke or slip fitter mounting.		
<b>26 55 53 11-0131</b>			<b>High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)</b>		
26 55 53 11-0132	EA		150 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	785.20	188.36
26 55 53 11-0133	EA		250 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	826.51	188.36
26 55 53 11-0134	EA		400 Watt High Pressure Sodium NSF/NSW/NSC Series Ruud Flood Light.....	849.46	188.36
<b>26 55 53 11-0135</b>			<b>Metal Halide NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)</b>		
26 55 53 11-0136	EA		175 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	776.03	188.36
26 55 53 11-0137	EA		250 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	780.61	188.36
26 55 53 11-0138	EA		400 Watt Metal Halide NSF/NSW/NSC Series Ruud Flood Light.....	794.38	188.36
<b>26 55 53 11-0139</b>			<b>Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Lights (26 55 53 11-0130)</b>		
26 55 53 11-0140	EA		70 Watt Compact Fluorescent NSF/NSW/NSC Series Ruud Flood Light.....	759.96	188.36
<b>26 55 53 11-0141</b>			<b>FS (Square) Series Ruud Flood Lights (26 55 53 11-0113)</b>		
			Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
<b>26 55 53 11-0142</b>			<b>High Pressure Sodium FS Series Ruud Flood Lights (26 55 53 11-0141)</b>		
26 55 53 11-0143	EA		250 Watt High Pressure Sodium FS Series Ruud Flood Light.....	906.83	188.36
26 55 53 11-0144	EA		400 Watt High Pressure Sodium FS Series Ruud Flood Light.....	911.42	188.36
26 55 53 11-0145	EA		1,000 Watt High Pressure Sodium FS Series Ruud Flood Light.....	1,508.61	209.30





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Special Purpose Lighting</b>	<b>26 55</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 55 53 11-0146 Metal Halide FS Series Ruud Flood Lights</b> (26 55 53 11-0141)		
26 55 53 11-0147 EA 175 Watt Metal Halide FS Series Ruud Flood Light.....	906.83	188.36
26 55 53 11-0148 EA 250 Watt Metal Halide FS Series Ruud Flood Light.....	911.42	188.36
26 55 53 11-0149 EA 400 Watt Metal Halide FS Series Ruud Flood Light.....	925.19	188.36
26 55 53 11-0150 EA 1,000 Watt Metal Halide FS Series Ruud Flood Light.....	1,357.15	209.30
<b>26 55 53 11-0151 MFS (Mini Square) Series Ruud Flood Lights</b> (26 55 53 11-0113)		
Note: For signs, large open areas and façade applications. Yoke or slip fitter mounting.		
<b>26 55 53 11-0152 High Pressure Sodium MFS Series Ruud Flood Lights</b> (26 55 53 11-0151)		
26 55 53 11-0153 EA 35 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	718.10	167.43
26 55 53 11-0154 EA 50 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	766.29	167.43
26 55 53 11-0155 EA 70 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	766.29	167.43
26 55 53 11-0156 EA 100 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	766.29	167.43
26 55 53 11-0157 EA 150 Watt High Pressure Sodium MFS Series Ruud Flood Light.....	766.29	167.43
<b>26 55 53 11-0158 Metal Halide MFS Series Ruud Flood Lights</b> (26 55 53 11-0151)		
26 55 53 11-0159 EA 50 Watt Metal Halide MFS Series Ruud Flood Light.....	782.36	167.43
26 55 53 11-0160 EA 70 Watt Metal Halide MFS Series Ruud Flood Light.....	782.36	167.43
26 55 53 11-0161 EA 100 Watt Metal Halide MFS Series Ruud Flood Light.....	782.36	167.43
26 55 53 11-0162 EA 175 Watt Metal Halide MFS Series Ruud Flood Light.....	757.11	167.43
<b>26 55 53 11-0163 MCF/MPM/MPN (Mini Cutoff. Parabolic Medium And Narrow Mini Square) Series Ruud Flood Lights</b> (26 55 53 11-0113)		
Note: The MCF is suited for parking lots, volleyball courts and tennis courts. The MPM and MPN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
<b>26 55 53 11-0164 High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Lights</b> (26 55 53 11-0163)		
26 55 53 11-0165 EA 35 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	775.47	167.43
26 55 53 11-0166 EA 50 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	823.66	167.43
26 55 53 11-0167 EA 70 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	823.66	167.43
26 55 53 11-0168 EA 100 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	823.66	167.43
26 55 53 11-0169 EA 150 Watt High Pressure Sodium MCF/MPM/MPN Series Ruud Flood Light.....	823.66	167.43
<b>26 55 53 11-0170 Metal Halide MCF/MPM/MPN Series Ruud Flood Lights</b> (26 55 53 11-0163)		
26 55 53 11-0171 EA 50 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	839.73	167.43
26 55 53 11-0172 EA 70 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	839.73	167.43
26 55 53 11-0173 EA 100 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	839.73	167.43
26 55 53 11-0174 EA 175 Watt Metal Halide MCF/MPM/MPN Series Ruud Flood Light.....	814.48	167.43
<b>26 55 53 11-0175 CF (Cutoff Square) Series Ruud Flood Lights</b> (26 55 53 11-0113)		
Note: The CF is suited for parking lots, volleyball courts and tennis courts. Yoke or slip fitter mounting.		
<b>26 55 53 11-0176 High Pressure Sodium CF Series Ruud Flood Lights</b> (26 55 53 11-0175)		
26 55 53 11-0177 EA 250 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,014.68	188.36
26 55 53 11-0178 EA 400 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,037.63	188.36
26 55 53 11-0179 EA 1,000 Watt High Pressure Sodium CF Series Ruud Flood Light.....	1,565.98	209.30
<b>26 55 53 11-0180 Metal Halide CF Series Ruud Flood Lights</b> (26 55 53 11-0175)		
26 55 53 11-0181 EA 175 Watt Metal Halide CF Series Ruud Flood Light.....	964.20	188.36
26 55 53 11-0182 EA 250 Watt Metal Halide CF Series Ruud Flood Light.....	968.79	188.36
26 55 53 11-0183 EA 400 Watt Metal Halide CF Series Ruud Flood Light.....	982.56	188.36
26 55 53 11-0184 EA 1,000 Watt Metal Halide CF Series Ruud Flood Light.....	1,414.52	209.30
<b>26 55 53 11-0185 CN (Narrow Beam Cutoff Square) Series Ruud Flood Lights</b> (26 55 53 11-0113)		
Note: The CN is suited for large sports fields, building facades and signs. Yoke or slip fitter mounting.		
<b>26 55 53 11-0186 High Pressure Sodium CN Series Ruud Flood Lights</b> (26 55 53 11-0185)		
26 55 53 11-0187 EA 400 High Pressure Sodium CN Series Ruud Flood Light.....	1,299.78	209.30
26 55 53 11-0188 EA 1,000 High Pressure Sodium CN Series Ruud Flood Light.....	1,538.44	209.30
<b>26 55 53 11-0189 Metal Halide CN Series Ruud Flood Lights</b> (26 55 53 11-0185)		
26 55 53 11-0190 EA 400 Watt Metal Halide CN Series Ruud Flood Light.....	1,244.71	209.30
26 55 53 11-0191 EA 1,000 Watt Metal Halide CN Series Ruud Flood Light.....	1,386.99	209.30
<b>26 55 53 11-0192 PM/PN (Parabolic Medium And Narrow Square) Series Ruud Flood Lights</b> (26 55 53 11-0113)		
Note: The PM and PN are suited for flagpoles, columns and narrow signs. Yoke or slip fitter mounting.		
<b>26 55 53 11-0193 High Pressure Sodium PM/PN Series Ruud Flood Lights</b> (26 55 53 11-0192)		
26 55 53 11-0194 EA 250 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	1,046.81	188.36

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 55</b>	<b>Special Purpose Lighting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0195 EA 400 Watt High Pressure Sodium PM/PN Series Ruud Flood Light.....	1,069.76	188.36
<b>26 55 53 11-0196 Metal Halide PM/PN Series Ruud Flood Lights (26 55 53 11-0192)</b>		
26 55 53 11-0197 EA 175 Watt Metal Halide PM/PN Series Ruud Flood Light.....	996.33	188.36
26 55 53 11-0198 EA 250 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,000.92	188.36
26 55 53 11-0199 EA 400 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,014.68	188.36
26 55 53 11-0200 EA 1,000 Watt Metal Halide PM/PN Series Ruud Flood Light.....	1,446.65	209.30
<b>26 55 53 11-0201 Accessories For Ruud Flood Lighting (26 55 53 11-0113)</b>		
26 55 53 11-0202 EA Wireguard For Ruud Flood Light.....	118.13	41.86
26 55 53 11-0203 EA Deep Baffle (Full Visor) For Ruud Flood Light.....	180.09	41.86
26 55 53 11-0204 EA Glare Guard (Upper Visor) For Ruud Flood Light.....	134.20	41.86
26 55 53 11-0205 EA Vandal Shield For Ruud Flood Light.....	157.14	41.86
26 55 53 11-0206 EA Pipe Mounting Bracket For Ruud Flood Light.....	329.17	125.57
26 55 53 11-0207 EA 120/240 Volt, 277 Volt, NEMA Twistlock Photocontrol For Ruud Flood Light.....	104.36	41.86
<b>26 55 53 11-0208 Lumark Flood Lights (26 55 53 11)</b>		
<b>26 55 53 11-0209 QZ Wedge Series Quartz Lumark Flood Lights (26 55 53 11-0208)</b>		
Note: For small outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0210 EA 500 Watt QZ Wedge Series Quartz Lumark Flood Light.....	298.08	125.57
<b>26 55 53 11-0211 LQL Series Quartz Lumark Flood Lights (26 55 53 11-0208)</b>		
Note: For medium size outdoor areas. Die-cast aluminum housing heat and weather resistant gaskets.		
26 55 53 11-0212 EA 1,500 Watt LQL Series Quartz Lumark Flood Light.....	365.78	125.57
<b>26 55 53 11-0213 Kim Lighting (26 55 53 11)</b>		
<b>26 55 53 11-0214 MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0213)</b>		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
<b>26 55 53 11-0215 LED MicroFlood® Series Kim Lighting Flood Lights (26 55 53 11-0214)</b>		
26 55 53 11-0216 EA 5 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	559.66	53.90
For >50 To 100, Deduct	-16.69	
For >100 To 250, Deduct	-30.68	
For >250 To 500, Deduct	-55.97	
For >500, Deduct	-81.25	
26 55 53 11-0217 EA 15 Watt, LED MicroFlood® Series Kim Lighting Flood Light.....	687.02	53.90
For >50 To 100, Deduct	-19.87	
For >100 To 250, Deduct	-37.05	
For >250 To 500, Deduct	-68.70	
For >500, Deduct	-100.36	
<b>26 55 53 11-0218 Scarab® Series Kim Lighting Flood Lights (26 55 53 11-0213)</b>		
Note: For signs, flags, facades and landscaping. Includes die-cast aluminum housing, corrosion resistant polyester powder finish and gasketed and tempered lens. 1/2" threaded mounting knuckle.		
<b>26 55 53 11-0219 LED Scarab® Series Kim Lighting Accent Flood Lights (26 55 53 11-0218)</b>		
Note: Spot or narrow style accent flood lights.		
26 55 53 11-0220 EA 6 Watt, LED Scarab® Series Kim Lighting Accent Flood Light.....	843.48	53.90
For >50 To 100, Deduct	-23.78	
For >100 To 250, Deduct	-44.87	
For >250 To 500, Deduct	-84.35	
For >500, Deduct	-123.83	
<b>26 55 53 11-0221 CREE® BetaLED® Flood Lights (26 55 53 11)</b>		
<b>26 55 53 11-0222 Yoke Mount, Square, LED Flood Lights (CREE® BetaLED® FLD-304) (26 55 53 11-0221)</b>		
Note: UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53 11-0223 EA 40 LEDs, 47 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,348.84	151.82
For >50 To 100, Deduct	-41.31	
For >100 To 250, Deduct	-75.03	
For >250 To 500, Deduct	-134.88	
For >500, Deduct	-194.74	
26 55 53 11-0224 EA 60 LEDs, 68 Watt, Yoke Mount, Square, LED Flood Light (CREE® BetaLED® FLD-304).....	1,476.34	160.24
For >50 To 100, Deduct	-44.92	
For >100 To 250, Deduct	-81.83	
For >250 To 500, Deduct	-147.63	
For >500, Deduct	-213.44	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Special Purpose Lighting</b>	<b>26 55</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 55 53 11-0225	<b>Adjustable Arm Mount, Rectangular, LED Flood Lights (CREE® BetaLED® Edge® FLD-EDG)</b> <small>(26 55 53 11-0221)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.	
26 55 53 11-0226	EA 20 LEDs, 26 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,173.67
	<i>For 480 Volt, Add</i>	107.03
	<i>For &gt;50 To 100, Deduct</i>	-36.51
	<i>For &gt;100 To 250, Deduct</i>	-65.85
	<i>For &gt;250 To 500, Deduct</i>	-117.37
	<i>For &gt;500, Deduct</i>	-168.88
26 55 53 11-0227	EA 40 LEDs, 47 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,470.91
	<i>For 480 Volt, Add</i>	107.03
	<i>For &gt;50 To 100, Deduct</i>	-44.36
	<i>For &gt;100 To 250, Deduct</i>	-81.14
	<i>For &gt;250 To 500, Deduct</i>	-147.09
	<i>For &gt;500, Deduct</i>	-213.05
26 55 53 11-0228	EA 60 LEDs, 68 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	1,768.16
	<i>For 480 Volt, Add</i>	107.03
	<i>For &gt;50 To 100, Deduct</i>	-52.22
	<i>For &gt;100 To 250, Deduct</i>	-96.42
	<i>For &gt;250 To 500, Deduct</i>	-176.82
	<i>For &gt;500, Deduct</i>	-257.21
26 55 53 11-0229	EA 80 LEDs, 90 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,177.94
	<i>For 480 Volt, Add</i>	107.03
	<i>For &gt;50 To 100, Deduct</i>	-62.88
	<i>For &gt;100 To 250, Deduct</i>	-117.33
	<i>For &gt;250 To 500, Deduct</i>	-217.79
	<i>For &gt;500, Deduct</i>	-318.26
26 55 53 11-0230	EA 100 LEDs, 111 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,475.19
	<i>For 480 Volt, Add</i>	107.03
	<i>For &gt;50 To 100, Deduct</i>	-70.74
	<i>For &gt;100 To 250, Deduct</i>	-132.62
	<i>For &gt;250 To 500, Deduct</i>	-247.52
	<i>For &gt;500, Deduct</i>	-362.42
26 55 53 11-0231	EA 120 LEDs, 132 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	2,772.43
	<i>For 480 Volt, Add</i>	107.03
	<i>For &gt;50 To 100, Deduct</i>	-78.59
	<i>For &gt;100 To 250, Deduct</i>	-147.90
	<i>For &gt;250 To 500, Deduct</i>	-277.24
	<i>For &gt;500, Deduct</i>	-406.59
26 55 53 11-0232	EA 140 LEDs, 157 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	3,159.32
	<i>For 480 Volt, Add</i>	107.03
	<i>For &gt;50 To 100, Deduct</i>	-88.68
	<i>For &gt;100 To 250, Deduct</i>	-167.67
	<i>For &gt;250 To 500, Deduct</i>	-315.93
	<i>For &gt;500, Deduct</i>	-464.20
26 55 53 11-0233	EA 160 LEDs, 179 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (CREE® BetaLED® Edge® FLD-EDG).....	3,456.56
	<i>For 480 Volt, Add</i>	107.03
	<i>For &gt;50 To 100, Deduct</i>	-96.54
	<i>For &gt;100 To 250, Deduct</i>	-182.95
	<i>For &gt;250 To 500, Deduct</i>	-345.66
	<i>For &gt;500, Deduct</i>	-508.36
26 55 53 11-0234	<b>Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® Edge® FLD-EHO)</b> <small>(26 55 53 11-0221)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.	
26 55 53 11-0235	EA 120 LEDs, 267 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	2,659.90
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49
	<i>For Bird Spikes, Add</i>	54.00
	<i>For 5,000K Color Temperature, Add</i>	56.24
	<i>For Fuse, Add</i>	67.48
	<i>For 0 To 10 Volt Dimming, Add</i>	67.48
	<i>For 480 Volt, Add</i>	101.23
	<i>For Multi-Level, Add</i>	146.21
	<i>For 1,000mA Driver, Add</i>	188.96
	<i>For &gt;50 To 100, Deduct</i>	-75.78
	<i>For &gt;100 To 250, Deduct</i>	-142.27
	<i>For &gt;250 To 500, Deduct</i>	-265.99
	<i>For &gt;500, Deduct</i>	-389.71



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53	11-0236	EA	240 LEDs, 533 Watt, Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® Edge® FLD-EHO).....	4,492.13	227.72
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For 5,000K Color Temperature, Add</i>	56.24	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Bird Spikes, Add</i>	79.47	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For 1,000mA Driver, Add</i>	188.96	
			<i>For 480 Volt, Add</i>	202.45	
			<i>For &gt;50 To 100, Deduct</i>	-123.69	
			<i>For &gt;100 To 250, Deduct</i>	-235.99	
			<i>For &gt;250 To 500, Deduct</i>	-449.21	
			<i>For &gt;500, Deduct</i>	-662.43	
26 55 53	11-0237		<b>Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Lights (CREE® BetaLED® OSQ™)</b> <small>(26 55 53 11-0221)</small>		
			Note: UL wet listed. Includes 3,000K or 4,000K or 5,700K color temperature, 120/277 voltage, Class 1 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 55 53	11-0238	EA	112 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-A-XXX-US-UL).....	1,575.74	185.55
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	42.17	
			<i>For Rotated Optics, Back Light Shield, Add</i>	42.17	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For &gt;50 To 100, Deduct</i>	-48.67	
			<i>For &gt;100 To 250, Deduct</i>	-88.06	
			<i>For &gt;250 To 500, Deduct</i>	-157.57	
			<i>For &gt;500, Deduct</i>	-227.08	
26 55 53	11-0239	EA	168 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-J-XXX-US-UL).....	1,682.03	185.55
			Note: Type III, IV or V medium optics only.		
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	42.17	
			<i>For Rotated Optics, Back Light Shield, Add</i>	42.17	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Type II Medium Or Type V Short Optics, Add</i>	270.14	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For &gt;50 To 100, Deduct</i>	-51.33	
			<i>For &gt;100 To 250, Deduct</i>	-93.38	
			<i>For &gt;250 To 500, Deduct</i>	-168.20	
			<i>For &gt;500, Deduct</i>	-243.03	
26 55 53	11-0240	EA	223 Watt, Direct Or Adjustable Arm Mount, Rectangular, High Output, LED Flood Light (CREE® BetaLED® OSQ™ OSQ-A-NM-XXX-S-XXX-US-UL).....	2,156.10	227.72
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Front Facing Optics, Back Light Shield, Add</i>	51.11	
			<i>For Rotated Optics, Back Light Shield, Add</i>	51.11	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For &gt;50 To 100, Deduct</i>	-65.29	
			<i>For &gt;100 To 250, Deduct</i>	-119.19	
			<i>For &gt;250 To 500, Deduct</i>	-215.61	
			<i>For &gt;500, Deduct</i>	-312.03	
26 55 53	11-0241		<b>PlanLED Flood Lights</b> <small>(26 55 53 11)</small>		
26 55 53	11-0242		<b>Adjustable Arm Mount, LED Flood Lights (PlanLED WAPA)</b> <small>(26 55 53 11-0241)</small>		
26 55 53	11-0243	EA	6,250 Lumens, 50 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP050).....	714.79	151.82
			<i>For &gt;50 To 100, Deduct</i>	-25.46	
			<i>For &gt;100 To 250, Deduct</i>	-43.33	
			<i>For &gt;250 To 500, Deduct</i>	-71.48	
			<i>For &gt;500, Deduct</i>	-99.63	
26 55 53	11-0244	EA	9,375 Lumens, 75 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP075).....	847.63	160.24
			<i>For &gt;50 To 100, Deduct</i>	-29.20	
			<i>For &gt;100 To 250, Deduct</i>	-50.39	
			<i>For &gt;250 To 500, Deduct</i>	-84.76	
			<i>For &gt;500, Deduct</i>	-119.13	
26 55 53	11-0245	EA	12,500 Lumens, 100 Watt, Adjustable Arm Mount, Rectangular, LED Flood Light (PlanLED WAPA WP100).....	974.13	172.90
			<i>For &gt;50 To 100, Deduct</i>	-33.00	
			<i>For &gt;100 To 250, Deduct</i>	-57.35	
			<i>For &gt;250 To 500, Deduct</i>	-97.41	
			<i>For &gt;500, Deduct</i>	-137.47	
26 55 53	11-0246		<b>Adjustable Arm Mount, LED Sports Flood Lights (PlanLED SUFA)</b> <small>(26 55 53 11-0241)</small>		



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Special Purpose Lighting</b>	<b>26 55</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 11-0247	EA		21,000 Lumens, 200 Watt, LED Sports Flood Light (PlanLED SUFA SF200) ..... <i>For 0 To 10 Volt Dimming, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	1,971.47 91.12 -66.16 -115.44 -197.15 -278.85	337.37
26 55 53 11-0248	EA		42,000 Lumens, 400 Watt, LED Sports Flood Light (PlanLED SUFA SF400) ..... <i>For 0 To 10 Volt Dimming, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	2,994.10 91.12 -91.72 -166.57 -299.41 -432.25	337.37
26 55 53 11-0249	EA		84,000 Lumens, 800 Watt, LED Sports Flood Light (PlanLED SUFA SF800) ..... <i>For 0 To 10 Volt Dimming, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	5,195.37 91.12 -146.75 -276.64 -519.54 -762.44	337.37
<b>26 55 53 11-0250</b>			<b>Adjustable Arm Mount, LED High Mast Flood Lights (PlanLED MAHA)</b> <small>(26 55 53 11-0241)</small>		
26 55 53 11-0251	EA		26,000 Lumens, 200 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA200) ..... <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	1,718.44 91.12 137.05 -53.93 -96.89 -171.84 -246.80	219.29
26 55 53 11-0252	EA		39,000 Lumens, 300 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA300) ..... <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	2,182.32 91.12 110.76 -65.94 -120.50 -218.23 -315.96	227.72
26 55 53 11-0253	EA		52,000 Lumens, 400 Watt, Adjustable Arm Mount, Rectangular, LED High Mast Flood Light (PlanLED MAHA MA400) ..... <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i>	2,766.36 91.12 89.83 -80.97 -150.13 -276.64 -403.15	236.16
<b>26 55 53 12</b>			<b>Security Hazardous Location Flood Lights</b> <small>(26 55 53)</small> Note: For general to heavy industrial applications in marine and corrosive environments. Class 1 Division 2.		
26 55 53 12-0001			<b>Lithonia Hazardous Location Flood Lights</b> <small>(26 55 53 12)</small>		
26 55 53 12-0002			<b>HFR (Horizontally Oriented Mogul Base) Series Hazardous Location Flood Lights</b> <small>(26 55 53 12-0001)</small> Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0003			<b>High Pressure Sodium HFR Series Hazardous Location Flood Lights</b> <small>(26 55 53 12-0002)</small>		
26 55 53 12-0004	EA		150 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,092.87	167.43
26 55 53 12-0005	EA		250 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,164.00	167.43
26 55 53 12-0006	EA		400 Watt High Pressure Sodium HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,095.16	167.43
26 55 53 12-0007			<b>Metal Halide HFR Series Lithonia Hazardous Location Flood Lights</b> <small>(26 55 53 12-0002)</small>		
26 55 53 12-0008	EA		250 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,156.41	167.43
26 55 53 12-0009	EA		400 Watt Metal Halide HFR Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,122.70	167.43
26 55 53 12-0010			<b>HFM (Medium Base) Series Hazardous Location Flood Lights</b> <small>(26 55 53 12-0001)</small> Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.		
26 55 53 12-0011			<b>High Pressure Sodium HFM Series Lithonia Hazardous Location Flood Lights</b> <small>(26 55 53 12-0010)</small>		
26 55 53 12-0012	EA		100 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,043.96	167.43
26 55 53 12-0013	EA		150 Watt High Pressure Sodium HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,086.42	167.43
26 55 53 12-0014			<b>Metal Halide HFM Series Lithonia Hazardous Location Flood Lights</b> <small>(26 55 53 12-0010)</small>		
26 55 53 12-0015	EA		175 Watt Metal Halide HFM Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	929.22	167.43

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 55</b>	<b>Special Purpose Lighting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 53 12-0016	<b>HFA (Large) Series Hazardous Location Flood Lights</b> <small>(26 55 53 12-0001)</small> Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.	
26 55 53 12-0017	<b>High Pressure Sodium HFA Series Lithonia Hazardous Location Flood Lights</b> <small>(26 55 53 12-0016)</small>	
26 55 53 12-0018 EA	250 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,467.30 209.30
26 55 53 12-0019 EA	400 Watt High Pressure Sodium HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,487.96 209.30
26 55 53 12-0020	<b>Metal Halide HFA Series Lithonia Hazardous Location Flood Lights</b> <small>(26 55 53 12-0016)</small>	
26 55 53 12-0021 EA	250 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,460.42 209.30
26 55 53 12-0022 EA	400 Watt Metal Halide HFA Series Lithonia Class 1 Div 2 Hazardous Location Flood Light .....	1,487.96 209.30
26 55 53 12-0023	<b>HFL (Medium) Series Hazardous Location Flood Lights</b> <small>(26 55 53 12-0001)</small> Note: Includes die-cast aluminum housing, corrosion resistant polyester powder finish and thermal shock resistant lens. Precision-formed reflector. Yoke mounting.	
26 55 53 12-0024	<b>High Pressure Sodium HFL Series Lithonia Hazardous Location Flood Lights</b> <small>(26 55 53 12-0023)</small>	
26 55 53 12-0025 EA	400 Watt High Pressure Sodium HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	1,099.59 188.36
26 55 53 12-0026	<b>Metal Halide HFL Series Lithonia Hazardous Location Flood Lights</b> <small>(26 55 53 12-0023)</small>	
26 55 53 12-0027 EA	400 Watt Metal Halide HFL Series Lithonia Class 1 Div 2 Hazardous Location Flood Light.....	1,179.91 188.36
26 55 53 12-0028	<b>Accessories For Lithonia Hazardous Location Flood Lights</b> <small>(26 55 53 12-0001)</small> See CSI section 26 55 53 11-0099 for accessories.	
<b>26 55 53 13</b>	<b>Security High Performance Flood Lights</b> <small>(26 55 53)</small> Note: For airport aprons and parking areas.	
26 55 53 13-0001	<b>Lithonia High Performance Flood Lights</b> <small>(26 55 53 13)</small>	
26 55 53 13-0002	<b>170S Series Lithonia High Performance Flood Lights</b> <small>(26 55 53 13-0001)</small> Note: Die-cast aluminum housing welded seams, stainless steel hardware, corrosion resistant polyester powder finish, and thermal and shock resistant flat lens.	
26 55 53 13-0003	<b>High Pressure Sodium 170S Series Lithonia High Performance Flood Lights</b> <small>(26 55 53 13-0002)</small>	
26 55 53 13-0004 EA	250 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light .....	2,496.48 251.15
26 55 53 13-0005 EA	400 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light .....	2,684.65 251.15
26 55 53 13-0006 EA	750 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light .....	2,693.83 251.15
26 55 53 13-0007 EA	1,000 Watt High Pressure Sodium 170S Series Lithonia High Performance Flood Light .....	2,980.68 251.15
26 55 53 13-0008	<b>Metal Halide 170S Series Lithonia High Performance Flood Lights</b> <small>(26 55 53 13-0002)</small>	
26 55 53 13-0009 EA	320 Watt Metal Halide 170S Series Lithonia High Performance Flood Light .....	2,861.35 251.15
26 55 53 13-0010 EA	350 Watt Metal Halide 170S Series Lithonia High Performance Flood Light .....	2,734.11 251.15
26 55 53 13-0011 EA	400 Watt Metal Halide 170S Series Lithonia High Performance Flood Light .....	2,613.52 251.15
26 55 53 13-0012 EA	1,000 Watt Metal Halide 170S Series Lithonia High Performance Flood Light .....	2,732.85 251.15
26 55 53 13-0013	<b>Accessories For Lithonia High Performance Flood Lights</b> <small>(26 55 53 13-0002)</small> See CSI section 26 55 53 11-0099 for accessories.	
<b>26 55 61</b>	<b>Theatrical Lighting</b> <small>(26 55)</small>	
26 55 61 00-0001	<b>Stage Lighting</b> <small>(26 55 61)</small>	
26 55 61 00-0002 EA	Ellipsoidal Spotlight, Two 6" x 9" Lenses .....	700.69 186.93
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0003 EA	Ellipsoidal Spotlight, Two 6" x 12" Lenses .....	700.69 186.93
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0004 EA	Ellipsoidal Spotlight, Two 6" x 16" Lenses .....	700.69 186.93
Note: Stainless steel shutter blades, complete with color frame, c-clamp, safety cable, 20 amperes, 3 watts ground, male pin connector and high performance lamp.		
26 55 61 00-0005 EA	14" Scoop Floodlight Altman #SC14 .....	721.32 186.93
26 55 61 00-0006 EA	6" Diameter Fresnel Spotlight, Spherical Specular Alzak1 .....	581.65 186.93
Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, c-clamp, safety cable, color frame, male pin connector and lamp.		
26 55 61 00-0007 EA	8" Diameter Fresnel Spotlight, Spherical Specular Alzak .....	914.93 186.93
Note: Reflector, heat resistant fresnel lens, slidefocus flood to spot, complete with yoke, C-clamp, safety cable, color frame, male pin connector and lamp.		
26 55 61 00-0008 EA	Follow Spotlight With Steel Chassis And Lightweight .....	2,303.16 186.93
Note: Aluminum housing, includes lamp adjustment plate, silent lamp fan, dowser, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.		



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Special Purpose Lighting	26 55	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 55 61 00-0009 EA Follow Spotlight With Steel Chassis And Lightweight.....	2,762.81	186.93
Note: Aluminum housing, includes lamp adjustment plate, ballast, electronic power supply, stepdown transformer, silent lamp fan, dowsler, iris and clipper, rear lens control, coated lenses, six color boomerang, color fan, 34" x 34" castered stand.		
26 55 61 00-0010 EA 300 To 1000 Watt, PAR 64 Can Lighting With 20 Gauge Sheet Steel.....	535.39	186.93
Note: Formed lamp housing, hinged and latched rear housing secured by retention ring, safety cable, safety screen, PAR 64 lamp, male pin connector.		
26 55 61 00-0011 EA 6' Length, Multi-Lamp Compartmented Striplighting Luminaire.....	1,768.44	186.93
Note: With continuous sheet steel housing, supported by 1-1/2" x 3/16" steel yoke with C-clamp, includes 30 lights per section wired on 3 circuits, alzak aluminum reflector with matte finish.		
26 55 61 00-0012 EA 1,000 Watt, 25 To 125' Throw, Follow Spotlight (Times Square Lighting QF1000S).....	2,973.00	186.93
<b>26 55 68 Athletic Field Lighting (26 55)</b>		
26 55 68 00-0001 Sports Lighting System (26 55 68)		
Note: Musco.		
26 55 68 00-0002 Round Steel Tapered Poles (26 55 68 00-0001)		
Note: With Internal wiring harness.		
26 55 68 00-0003 EA 20' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	4,361.37	803.68
26 55 68 00-0004 EA 25' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	5,249.18	971.11
26 55 68 00-0005 EA 30' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	5,905.34	1,054.83
26 55 68 00-0006 EA 35' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	6,442.12	1,096.69
26 55 68 00-0007 EA 40' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	8,016.99	1,138.55
26 55 68 00-0008 EA 45' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	9,223.35	1,389.69
26 55 68 00-0009 EA 50' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	9,906.30	1,473.41
26 55 68 00-0010 EA 55' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	11,253.25	1,674.33
26 55 68 00-0011 EA 60' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	12,771.60	1,883.63
26 55 68 00-0012 EA 65' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	14,080.25	2,056.80
26 55 68 00-0013 EA 70' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	15,371.85	2,298.77
26 55 68 00-0014 EA 75' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	16,778.47	2,581.09
26 55 68 00-0015 EA 80' Steel Tapered Pole With Precast Concrete Foundation Sleeve.....	18,875.24	3,105.37
26 55 68 00-0016 Steel Pole Brackets (26 55 68 00-0001)		
26 55 68 00-0017 EA Two Light Bracket.....	697.21	83.71
26 55 68 00-0018 EA Three Light Bracket.....	877.81	117.21
26 55 68 00-0019 EA Four Light Bracket.....	1,263.77	142.32
26 55 68 00-0020 EA Five Light Bracket.....	1,440.41	167.43
26 55 68 00-0021 EA Six Light Bracket.....	1,746.54	192.55
26 55 68 00-0022 EA Seven Light Bracket.....	1,999.83	217.66
26 55 68 00-0023 EA Eight Light Bracket.....	2,286.26	251.15
26 55 68 00-0024 EA Nine Light Bracket.....	2,582.71	276.27
26 55 68 00-0025 Light Fixtures (26 55 68 00-0001)		
26 55 68 00-0026 EA 120 or 270 Volt, Sportlite Fixtures Complete with 1,000 Watt Metal Halide Lamp, Hook Cord And Plug.....	1,556.09	
For 1,500 Watt Metal Halide Lamp, Add		15.05
26 55 68 00-0027 Electrical Component Enclosure (26 55 68 00-0001)		
Note: Pole mounted NEMA 3R enclosure with thermal magnetic breaker and multiple ballasts to match total light fixtures. For light structures with more than 6 lights, use multiple enclosures.		
26 55 68 00-0028 EA Electrical Component Enclosure For 2 Lights, Pole Mounted.....	1,050.98	99.98
26 55 68 00-0029 EA Electrical Component Enclosure For 3 Lights, Pole Mounted.....	1,578.49	153.82
26 55 68 00-0030 EA Electrical Component Enclosure For 4 Lights, Pole Mounted.....	1,809.83	192.28
26 55 68 00-0031 EA Electrical Component Enclosure For 5 Lights, Pole Mounted.....	2,336.97	215.35
26 55 68 00-0032 EA Electrical Component Enclosure For 6 Lights, Pole Mounted.....	2,625.06	230.73
26 55 68 00-0033 Accessories (26 55 68 00-0001)		
26 55 68 00-0034 EA Time Delay Kit (Musco®).....	1,147.22	308.04
26 55 68 00-0035 EA Remote Switch Box Push Button (Musco®).....	2,209.52	308.04
26 55 68 00-0036 EA Push Button Strobe Kit (Musco®).....	2,634.43	308.04
26 55 68 00-0037 EA Additional Control-Link Unit (Musco®).....	12,471.14	924.12
26 55 68 00-0038 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For New Installations (Musco®).....	1,369.94	153.82
26 55 68 00-0039 EA Auxiliary Brackets For Speakers Or Egress Fixtures, For Retrofit Applications (Musco®).....	1,677.57	307.65
<b>26 56 Exterior Lighting (26 50)</b>		
<b>26 56 13 Lighting Poles and Standards (26 56)</b>		
26 56 13 00-0001 Poles And Standards (26 56 13)		
See CSI section 26 05 46 00-0000 for additional poles, 26 05 46 00-0001 for additional pole.		
26 56 13 00-0002 Roadway Light Poles (26 56 13 00-0001)		
Note: Excludes lighting fixtures.		
26 56 13 00-0003 Steel Roadway Light Poles (26 56 13 00-0002)		
Note: Includes prime painted finish, anchor bolts, steel base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 56</b>	<b>Exterior Lighting</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0004		Round Tapered, Steel Roadway Light Poles <small>(26 56 13 00-0003)</small>		
26 56	13 00-0005		Round Tapered, Steel Roadway Light Poles With Upsweep Style Arms <small>(26 56 13 00-0004)</small>		
26 56	13 00-0006		Round Tapered, Steel Roadway Light Poles With Single Upsweep Style Arm <small>(26 56 13 00-0005)</small>		
26 56	13 00-0007	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,608.28	502.30
			<i>For Galvanized Finish, Add</i>	78.11	
			<i>For &gt;10 To 20, Deduct</i>	-90.21	
			<i>For &gt;20 To 40, Deduct</i>	-180.41	
			<i>For &gt;40, Deduct</i>	-295.74	
26 56	13 00-0008	EA	20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	3,614.71	502.30
			<i>For Galvanized Finish, Add</i>	78.30	
			<i>For &gt;10 To 20, Deduct</i>	-90.37	
			<i>For &gt;20 To 40, Deduct</i>	-180.74	
			<i>For &gt;40, Deduct</i>	-296.22	
26 56	13 00-0009	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	3,987.71	669.74
			<i>For Galvanized Finish, Add</i>	79.45	
			<i>For &gt;10 To 20, Deduct</i>	-99.69	
			<i>For &gt;20 To 40, Deduct</i>	-199.39	
			<i>For &gt;40, Deduct</i>	-332.57	
26 56	13 00-0010	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,065.09	669.74
			<i>For Galvanized Finish, Add</i>	81.77	
			<i>For &gt;10 To 20, Deduct</i>	-101.63	
			<i>For &gt;20 To 40, Deduct</i>	-203.25	
			<i>For &gt;40, Deduct</i>	-338.37	
26 56	13 00-0011	EA	25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,142.47	669.74
			<i>For Galvanized Finish, Add</i>	84.09	
			<i>For &gt;10 To 20, Deduct</i>	-103.56	
			<i>For &gt;20 To 40, Deduct</i>	-207.12	
			<i>For &gt;40, Deduct</i>	-344.17	
26 56	13 00-0012	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,326.20	753.45
			<i>For Galvanized Finish, Add</i>	84.58	
			<i>For &gt;10 To 20, Deduct</i>	-108.16	
			<i>For &gt;20 To 40, Deduct</i>	-216.31	
			<i>For &gt;40, Deduct</i>	-362.14	
26 56	13 00-0013	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,362.90	753.45
			<i>For Galvanized Finish, Add</i>	85.68	
			<i>For &gt;10 To 20, Deduct</i>	-109.07	
			<i>For &gt;20 To 40, Deduct</i>	-218.15	
			<i>For &gt;40, Deduct</i>	-364.89	
26 56	13 00-0014	EA	30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,369.88	753.45
			<i>For Galvanized Finish, Add</i>	85.89	
			<i>For &gt;10 To 20, Deduct</i>	-109.25	
			<i>For &gt;20 To 40, Deduct</i>	-218.49	
			<i>For &gt;40, Deduct</i>	-365.41	
26 56	13 00-0015	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	4,583.86	795.31
			<i>For Galvanized Finish, Add</i>	89.80	
			<i>For &gt;10 To 20, Deduct</i>	-114.60	
			<i>For &gt;20 To 40, Deduct</i>	-229.19	
			<i>For &gt;40, Deduct</i>	-383.56	
26 56	13 00-0016	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	4,611.58	795.31
			<i>For Galvanized Finish, Add</i>	90.63	
			<i>For &gt;10 To 20, Deduct</i>	-115.29	
			<i>For &gt;20 To 40, Deduct</i>	-230.58	
			<i>For &gt;40, Deduct</i>	-385.63	
26 56	13 00-0017	EA	35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base	4,641.84	795.31
			<i>For Galvanized Finish, Add</i>	91.54	
			<i>For &gt;10 To 20, Deduct</i>	-116.05	
			<i>For &gt;20 To 40, Deduct</i>	-232.09	
			<i>For &gt;40, Deduct</i>	-387.90	
26 56	13 00-0018	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base	5,267.66	837.16
			<i>For Galvanized Finish, Add</i>	107.80	
			<i>For &gt;10 To 20, Deduct</i>	-131.69	
			<i>For &gt;20 To 40, Deduct</i>	-263.38	
			<i>For &gt;40, Deduct</i>	-436.93	
26 56	13 00-0019	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base	5,277.53	837.16
			<i>For Galvanized Finish, Add</i>	108.10	
			<i>For &gt;10 To 20, Deduct</i>	-131.94	
			<i>For &gt;20 To 40, Deduct</i>	-263.88	
			<i>For &gt;40, Deduct</i>	-437.67	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0020 EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	5,287.28	837.16
For Galvanized Finish, Add	108.39	
For >10 To 20, Deduct	-132.18	
For >20 To 40, Deduct	-264.36	
For >40, Deduct	-438.40	
<b>26 56 13 00-0021 Round Tapered, Steel Roadway Light Poles With Two Upsweep Style Arms (26 56 13 00-0005)</b>		
26 56 13 00-0022 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,478.01	586.02
For Galvanized Finish, Add	99.18	
For >10 To 20, Deduct	-111.95	
For >20 To 40, Deduct	-223.90	
For >40, Deduct	-365.15	
26 56 13 00-0023 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,561.22	606.94
For Galvanized Finish, Add	100.42	
For >10 To 20, Deduct	-114.03	
For >20 To 40, Deduct	-228.06	
For >40, Deduct	-372.44	
26 56 13 00-0024 EA 20' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,634.23	627.88
For Galvanized Finish, Add	101.35	
For >10 To 20, Deduct	-115.86	
For >20 To 40, Deduct	-231.71	
For >40, Deduct	-378.96	
26 56 13 00-0025 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,544.82	753.45
For Galvanized Finish, Add	91.14	
For >10 To 20, Deduct	-113.62	
For >20 To 40, Deduct	-227.24	
For >40, Deduct	-378.53	
26 56 13 00-0026 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,603.09	774.38
For Galvanized Finish, Add	91.63	
For >10 To 20, Deduct	-115.08	
For >20 To 40, Deduct	-230.15	
For >40, Deduct	-383.95	
26 56 13 00-0027 EA 25' High, 5.9" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,651.60	795.31
For Galvanized Finish, Add	91.83	
For >10 To 20, Deduct	-116.29	
For >20 To 40, Deduct	-232.58	
For >40, Deduct	-388.64	
26 56 13 00-0028 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,914.90	837.16
For Galvanized Finish, Add	97.22	
For >10 To 20, Deduct	-122.87	
For >20 To 40, Deduct	-245.75	
For >40, Deduct	-410.48	
26 56 13 00-0029 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,966.75	858.10
For Galvanized Finish, Add	97.52	
For >10 To 20, Deduct	-124.17	
For >20 To 40, Deduct	-248.34	
For >40, Deduct	-415.41	
26 56 13 00-0030 EA 30' High, 6.6" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,014.92	879.02
For Galvanized Finish, Add	97.71	
For >10 To 20, Deduct	-125.37	
For >20 To 40, Deduct	-250.75	
For >40, Deduct	-420.07	
26 56 13 00-0031 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	5,210.92	879.02
For Galvanized Finish, Add	103.59	
For >10 To 20, Deduct	-130.27	
For >20 To 40, Deduct	-260.55	
For >40, Deduct	-434.77	
26 56 13 00-0032 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,295.68	899.96
For Galvanized Finish, Add	104.87	
For >10 To 20, Deduct	-132.39	
For >20 To 40, Deduct	-264.78	
For >40, Deduct	-442.17	
26 56 13 00-0033 EA 35' High, 7.3" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,378.23	920.88
For Galvanized Finish, Add	106.09	
For >10 To 20, Deduct	-134.46	
For >20 To 40, Deduct	-268.91	
For >40, Deduct	-449.41	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 56 13 00-0034	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base		5,856.59	920.88
		<i>For Galvanized Finish, Add</i>		120.44	
		<i>For &gt;10 To 20, Deduct</i>		-146.41	
		<i>For &gt;20 To 40, Deduct</i>		-292.83	
		<i>For &gt;40, Deduct</i>		-485.29	
26 56 13 00-0035	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base		5,904.88	941.81
		<i>For Galvanized Finish, Add</i>		120.64	
		<i>For &gt;10 To 20, Deduct</i>		-147.62	
		<i>For &gt;20 To 40, Deduct</i>		-295.24	
		<i>For &gt;40, Deduct</i>		-489.96	
26 56 13 00-0036	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base		5,953.39	962.75
		<i>For Galvanized Finish, Add</i>		120.84	
		<i>For &gt;10 To 20, Deduct</i>		-148.83	
		<i>For &gt;20 To 40, Deduct</i>		-297.67	
		<i>For &gt;40, Deduct</i>		-494.64	
<b>26 56 13 00-0037 Round Tapered, Steel Roadway Light Poles With Three Upsweep Style Arms</b> <small>(26 56 13 00-0005)</small>					
26 56 13 00-0038	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base		5,319.99	837.16
		<i>For Galvanized Finish, Add</i>		109.37	
		<i>For &gt;10 To 20, Deduct</i>		-133.00	
		<i>For &gt;20 To 40, Deduct</i>		-266.00	
		<i>For &gt;40, Deduct</i>		-440.86	
26 56 13 00-0039	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base		5,410.25	879.02
		<i>For Galvanized Finish, Add</i>		109.57	
		<i>For &gt;10 To 20, Deduct</i>		-135.26	
		<i>For &gt;20 To 40, Deduct</i>		-270.51	
		<i>For &gt;40, Deduct</i>		-449.72	
26 56 13 00-0040	EA	25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base		5,510.26	920.88
		<i>For Galvanized Finish, Add</i>		110.05	
		<i>For &gt;10 To 20, Deduct</i>		-137.76	
		<i>For &gt;20 To 40, Deduct</i>		-275.51	
		<i>For &gt;40, Deduct</i>		-459.31	
26 56 13 00-0041	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base		5,650.84	920.88
		<i>For Galvanized Finish, Add</i>		114.27	
		<i>For &gt;10 To 20, Deduct</i>		-141.27	
		<i>For &gt;20 To 40, Deduct</i>		-282.54	
		<i>For &gt;40, Deduct</i>		-469.86	
26 56 13 00-0042	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base		5,744.19	962.75
		<i>For Galvanized Finish, Add</i>		114.56	
		<i>For &gt;10 To 20, Deduct</i>		-143.60	
		<i>For &gt;20 To 40, Deduct</i>		-287.21	
		<i>For &gt;40, Deduct</i>		-478.95	
26 56 13 00-0043	EA	30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base		5,834.45	1,004.60
		<i>For Galvanized Finish, Add</i>		114.76	
		<i>For &gt;10 To 20, Deduct</i>		-145.86	
		<i>For &gt;20 To 40, Deduct</i>		-291.72	
		<i>For &gt;40, Deduct</i>		-487.81	
26 56 13 00-0044	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base		6,002.16	962.75
		<i>For Galvanized Finish, Add</i>		122.30	
		<i>For &gt;10 To 20, Deduct</i>		-150.05	
		<i>For &gt;20 To 40, Deduct</i>		-300.11	
		<i>For &gt;40, Deduct</i>		-498.30	
26 56 13 00-0045	EA	35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base		6,092.42	1,004.60
		<i>For Galvanized Finish, Add</i>		122.50	
		<i>For &gt;10 To 20, Deduct</i>		-152.31	
		<i>For &gt;20 To 40, Deduct</i>		-304.62	
		<i>For &gt;40, Deduct</i>		-507.16	
26 56 13 00-0046	EA	35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base		6,182.69	1,046.46
		<i>For Galvanized Finish, Add</i>		122.69	
		<i>For &gt;10 To 20, Deduct</i>		-154.57	
		<i>For &gt;20 To 40, Deduct</i>		-309.13	
		<i>For &gt;40, Deduct</i>		-516.02	
26 56 13 00-0047	EA	40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base		6,445.52	1,004.60
		<i>For Galvanized Finish, Add</i>		133.09	
		<i>For &gt;10 To 20, Deduct</i>		-161.14	
		<i>For &gt;20 To 40, Deduct</i>		-322.28	
		<i>For &gt;40, Deduct</i>		-533.64	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0048 EA 40' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	6,535.44	1,046.46
For Galvanized Finish, Add	133.28	
For >10 To 20, Deduct	-163.39	
For >20 To 40, Deduct	-326.77	
For >40, Deduct	-542.48	
26 56 13 00-0049 EA 40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	6,632.25	1,088.32
For Galvanized Finish, Add	133.67	
For >10 To 20, Deduct	-165.81	
For >20 To 40, Deduct	-331.61	
For >40, Deduct	-551.83	
<b>26 56 13 00-0050 Round Tapered, Steel Roadway Light Poles With Four Upsweep Style Arms</b> <small>(26 56 13 00-0005)</small>		
26 56 13 00-0051 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,912.14	920.88
For Galvanized Finish, Add	122.11	
For >10 To 20, Deduct	-147.80	
For >20 To 40, Deduct	-295.61	
For >40, Deduct	-489.45	
26 56 13 00-0052 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,047.46	983.67
For Galvanized Finish, Add	122.40	
For >10 To 20, Deduct	-151.19	
For >20 To 40, Deduct	-302.37	
For >40, Deduct	-502.74	
26 56 13 00-0053 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	6,179.47	1,046.46
For Galvanized Finish, Add	122.60	
For >10 To 20, Deduct	-154.49	
For >20 To 40, Deduct	-308.97	
For >40, Deduct	-515.78	
26 56 13 00-0054 EA 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	6,282.99	1,004.60
For Galvanized Finish, Add	128.21	
For >10 To 20, Deduct	-157.07	
For >20 To 40, Deduct	-314.15	
For >40, Deduct	-521.45	
26 56 13 00-0055 EA 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,415.45	1,067.38
For Galvanized Finish, Add	128.42	
For >10 To 20, Deduct	-160.39	
For >20 To 40, Deduct	-320.77	
For >40, Deduct	-534.53	
26 56 13 00-0056 EA 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	6,510.20	1,130.18
For Galvanized Finish, Add	127.50	
For >10 To 20, Deduct	-162.76	
For >20 To 40, Deduct	-325.51	
For >40, Deduct	-544.77	
26 56 13 00-0057 EA 35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	6,737.99	1,046.46
For Galvanized Finish, Add	139.35	
For >10 To 20, Deduct	-168.45	
For >20 To 40, Deduct	-336.90	
For >40, Deduct	-557.67	
26 56 13 00-0058 EA 35' High, 9.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,914.55	1,109.24
For Galvanized Finish, Add	140.88	
For >10 To 20, Deduct	-172.86	
For >20 To 40, Deduct	-345.73	
For >40, Deduct	-574.05	
26 56 13 00-0059 EA 35' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	7,005.66	1,172.03
For Galvanized Finish, Add	139.85	
For >10 To 20, Deduct	-175.14	
For >20 To 40, Deduct	-350.28	
For >40, Deduct	-584.03	
26 56 13 00-0060 EA 40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	7,034.12	1,088.32
For Galvanized Finish, Add	145.72	
For >10 To 20, Deduct	-175.85	
For >20 To 40, Deduct	-351.71	
For >40, Deduct	-581.98	
26 56 13 00-0061 EA 40' High, 10.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	7,166.12	1,151.11
For Galvanized Finish, Add	145.92	
For >10 To 20, Deduct	-179.15	
For >20 To 40, Deduct	-358.31	
For >40, Deduct	-595.01	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0062	EA		40' High, 10.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base	7,301.44	1,213.89
			<i>For Galvanized Finish, Add</i>	146.21	
			<i>For &gt;10 To 20, Deduct</i>	-182.54	
			<i>For &gt;20 To 40, Deduct</i>	-365.07	
			<i>For &gt;40, Deduct</i>	-608.30	
26 56 13 00-0063			Round Tapered, Steel Roadway Light Poles With Davit Style Arm <small>(26 56 13 00-0004)</small>		
26 56 13 00-0064			Round Tapered, Steel Roadway Light Poles With Single Davit Style Arm <small>(26 56 13 00-0063)</small>		
26 56 13 00-0065	EA		25' High, 6.4" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,227.17	669.74
			<i>For Galvanized Finish, Add</i>	86.63	
			<i>For &gt;10 To 20, Deduct</i>	-105.68	
			<i>For &gt;20 To 40, Deduct</i>	-211.36	
			<i>For &gt;40, Deduct</i>	-350.52	
26 56 13 00-0066	EA		30' High, 7.1" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,781.62	753.45
			<i>For Galvanized Finish, Add</i>	98.24	
			<i>For &gt;10 To 20, Deduct</i>	-119.54	
			<i>For &gt;20 To 40, Deduct</i>	-239.08	
			<i>For &gt;40, Deduct</i>	-396.29	
26 56 13 00-0067	EA		35' High, 7.8" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	4,919.22	795.31
			<i>For Galvanized Finish, Add</i>	99.86	
			<i>For &gt;10 To 20, Deduct</i>	-122.98	
			<i>For &gt;20 To 40, Deduct</i>	-245.96	
			<i>For &gt;40, Deduct</i>	-408.71	
26 56 13 00-0068	EA		40' High, 9.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 6.5' Davit Style Arm, Anchor Base	5,829.50	837.16
			<i>For Galvanized Finish, Add</i>	124.66	
			<i>For &gt;10 To 20, Deduct</i>	-145.74	
			<i>For &gt;20 To 40, Deduct</i>	-291.48	
			<i>For &gt;40, Deduct</i>	-479.07	
26 56 13 00-0069			Round Tapered, Steel Roadway Light Poles With Truss Style Arms <small>(26 56 13 00-0004)</small>		
26 56 13 00-0070			Round Tapered, Steel Roadway Light Poles With Single Truss Style Arm <small>(26 56 13 00-0069)</small>		
26 56 13 00-0071	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	5,383.12	669.74
			<i>For Galvanized Finish, Add</i>	121.31	
			<i>For &gt;10 To 20, Deduct</i>	-134.58	
			<i>For &gt;20 To 40, Deduct</i>	-269.16	
			<i>For &gt;40, Deduct</i>	-437.22	
26 56 13 00-0072	EA		25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	5,432.67	669.74
			<i>For Galvanized Finish, Add</i>	122.80	
			<i>For &gt;10 To 20, Deduct</i>	-135.82	
			<i>For &gt;20 To 40, Deduct</i>	-271.63	
			<i>For &gt;40, Deduct</i>	-440.94	
26 56 13 00-0073	EA		25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	5,455.29	669.74
			<i>For Galvanized Finish, Add</i>	123.47	
			<i>For &gt;10 To 20, Deduct</i>	-136.38	
			<i>For &gt;20 To 40, Deduct</i>	-272.76	
			<i>For &gt;40, Deduct</i>	-442.63	
26 56 13 00-0074	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	5,600.10	753.45
			<i>For Galvanized Finish, Add</i>	122.80	
			<i>For &gt;10 To 20, Deduct</i>	-140.00	
			<i>For &gt;20 To 40, Deduct</i>	-280.01	
			<i>For &gt;40, Deduct</i>	-457.68	
26 56 13 00-0075	EA		30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base	5,608.75	753.45
			<i>For Galvanized Finish, Add</i>	123.06	
			<i>For &gt;10 To 20, Deduct</i>	-140.22	
			<i>For &gt;20 To 40, Deduct</i>	-280.44	
			<i>For &gt;40, Deduct</i>	-458.33	
26 56 13 00-0076	EA		30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base	5,698.10	753.45
			<i>For Galvanized Finish, Add</i>	125.74	
			<i>For &gt;10 To 20, Deduct</i>	-142.45	
			<i>For &gt;20 To 40, Deduct</i>	-284.91	
			<i>For &gt;40, Deduct</i>	-465.03	
26 56 13 00-0077	EA		35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base	5,713.20	795.31
			<i>For Galvanized Finish, Add</i>	123.68	
			<i>For &gt;10 To 20, Deduct</i>	-142.83	
			<i>For &gt;20 To 40, Deduct</i>	-285.66	
			<i>For &gt;40, Deduct</i>	-468.26	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0078 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,765.53	795.31
For Galvanized Finish, Add	125.25	
For >10 To 20, Deduct	-144.14	
For >20 To 40, Deduct	-288.28	
For >40, Deduct	-472.18	
26 56 13 00-0079 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	6,039.91	795.31
For Galvanized Finish, Add	133.48	
For >10 To 20, Deduct	-151.00	
For >20 To 40, Deduct	-302.00	
For >40, Deduct	-492.76	
<b>26 56 13 00-0080 Round Tapered, Steel Roadway Light Poles With Two Truss Style Arms</b> <small>(26 56 13 00-0069)</small>		
26 56 13 00-0081 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	7,036.33	837.16
For Galvanized Finish, Add	160.86	
For >10 To 20, Deduct	-175.91	
For >20 To 40, Deduct	-351.82	
For >40, Deduct	-569.58	
26 56 13 00-0082 EA 25' High, 6.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	7,167.50	879.02
For Galvanized Finish, Add	162.28	
For >10 To 20, Deduct	-179.19	
For >20 To 40, Deduct	-358.38	
For >40, Deduct	-581.51	
26 56 13 00-0083 EA 25' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,437.47	920.88
For Galvanized Finish, Add	167.87	
For >10 To 20, Deduct	-185.94	
For >20 To 40, Deduct	-371.87	
For >40, Deduct	-603.85	
26 56 13 00-0084 EA 30' High, 7.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	7,176.28	920.88
For Galvanized Finish, Add	160.04	
For >10 To 20, Deduct	-179.41	
For >20 To 40, Deduct	-358.81	
For >40, Deduct	-584.27	
26 56 13 00-0085 EA 30' High, 7.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	7,505.10	962.75
For Galvanized Finish, Add	167.39	
For >10 To 20, Deduct	-187.63	
For >20 To 40, Deduct	-375.26	
For >40, Deduct	-611.02	
26 56 13 00-0086 EA 30' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,709.44	1,004.60
For Galvanized Finish, Add	171.01	
For >10 To 20, Deduct	-192.74	
For >20 To 40, Deduct	-385.47	
For >40, Deduct	-628.44	
26 56 13 00-0087 EA 35' High, 8.0" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	7,396.90	962.75
For Galvanized Finish, Add	164.14	
For >10 To 20, Deduct	-184.92	
For >20 To 40, Deduct	-369.85	
For >40, Deduct	-602.90	
26 56 13 00-0088 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	7,830.28	1,004.60
For Galvanized Finish, Add	174.63	
For >10 To 20, Deduct	-195.76	
For >20 To 40, Deduct	-391.51	
For >40, Deduct	-637.50	
26 56 13 00-0089 EA 35' High, 8.5" Base OD, 7 Gauge, Round Tapered, Steel Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	8,093.59	1,046.46
For Galvanized Finish, Add	180.02	
For >10 To 20, Deduct	-202.34	
For >20 To 40, Deduct	-404.68	
For >40, Deduct	-659.34	
<b>26 56 13 00-0090 Aluminum Roadway Light Poles</b> <small>(26 56 13 00-0002)</small> Note: Includes satin finish, anchor bolts, cast aluminum base with nut covers, reinforced handhole with cover and grounding provisions, and fixture arm(s).		
<b>26 56 13 00-0091 Round Tapered, Aluminum Roadway Light Poles</b> <small>(26 56 13 00-0090)</small>		
<b>26 56 13 00-0092 Round Tapered, Aluminum Roadway Light Poles With Upsweep Style Arms</b> <small>(26 56 13 00-0091)</small>		
<b>26 56 13 00-0093 Round Tapered, Aluminum Roadway Light Poles With Single Upsweep Style Arm</b> <small>(26 56 13 00-0092)</small>		

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0094	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,015.23	502.30
			<i>For &gt;10 To 20, Deduct</i>	-75.38	
			<i>For &gt;20 To 40, Deduct</i>	-150.76	
			<i>For &gt;40, Deduct</i>	-251.26	
26 56 13 00-0095	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,039.57	502.30
			<i>For &gt;10 To 20, Deduct</i>	-75.99	
			<i>For &gt;20 To 40, Deduct</i>	-151.98	
			<i>For &gt;40, Deduct</i>	-253.08	
26 56 13 00-0096	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	3,717.50	669.74
			<i>For &gt;10 To 20, Deduct</i>	-92.94	
			<i>For &gt;20 To 40, Deduct</i>	-185.88	
			<i>For &gt;40, Deduct</i>	-312.30	
26 56 13 00-0097	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	3,763.48	669.74
			<i>For &gt;10 To 20, Deduct</i>	-94.09	
			<i>For &gt;20 To 40, Deduct</i>	-188.17	
			<i>For &gt;40, Deduct</i>	-315.75	
26 56 13 00-0098	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	3,805.78	669.74
			<i>For &gt;10 To 20, Deduct</i>	-95.14	
			<i>For &gt;20 To 40, Deduct</i>	-190.29	
			<i>For &gt;40, Deduct</i>	-318.92	
26 56 13 00-0099	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,261.20	753.45
			<i>For &gt;10 To 20, Deduct</i>	-106.53	
			<i>For &gt;20 To 40, Deduct</i>	-213.06	
			<i>For &gt;40, Deduct</i>	-357.26	
26 56 13 00-0100	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,300.00	753.45
			<i>For &gt;10 To 20, Deduct</i>	-107.50	
			<i>For &gt;20 To 40, Deduct</i>	-215.00	
			<i>For &gt;40, Deduct</i>	-360.17	
26 56 13 00-0101	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	4,343.39	753.45
			<i>For &gt;10 To 20, Deduct</i>	-108.58	
			<i>For &gt;20 To 40, Deduct</i>	-217.17	
			<i>For &gt;40, Deduct</i>	-363.43	
26 56 13 00-0102	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Upsweep Style Arm, Anchor Base.....	4,958.80	795.31
			<i>For &gt;10 To 20, Deduct</i>	-123.97	
			<i>For &gt;20 To 40, Deduct</i>	-247.94	
			<i>For &gt;40, Deduct</i>	-411.68	
26 56 13 00-0103	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Upsweep Style Arm, Anchor Base.....	4,997.50	795.31
			<i>For &gt;10 To 20, Deduct</i>	-124.94	
			<i>For &gt;20 To 40, Deduct</i>	-249.88	
			<i>For &gt;40, Deduct</i>	-414.58	
26 56 13 00-0104	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Upsweep Style Arm, Anchor Base.....	5,029.92	795.31
			<i>For &gt;10 To 20, Deduct</i>	-125.75	
			<i>For &gt;20 To 40, Deduct</i>	-251.50	
			<i>For &gt;40, Deduct</i>	-417.01	
26 56 13 00-0105			<b>Round Tapered, Aluminum Roadway Light Poles With Two Upsweep Style Arms</b> <small>(26 56 13 00-0092)</small>		
26 56 13 00-0106	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	3,458.98	586.02
			<i>For &gt;10 To 20, Deduct</i>	-86.47	
			<i>For &gt;20 To 40, Deduct</i>	-172.95	
			<i>For &gt;40, Deduct</i>	-288.72	
26 56 13 00-0107	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	3,697.49	586.02
			<i>For &gt;10 To 20, Deduct</i>	-92.44	
			<i>For &gt;20 To 40, Deduct</i>	-184.87	
			<i>For &gt;40, Deduct</i>	-306.61	
26 56 13 00-0108	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	3,827.70	627.88
			<i>For &gt;10 To 20, Deduct</i>	-95.69	
			<i>For &gt;20 To 40, Deduct</i>	-191.39	
			<i>For &gt;40, Deduct</i>	-318.47	
26 56 13 00-0109	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,148.18	753.45
			<i>For &gt;10 To 20, Deduct</i>	-103.70	
			<i>For &gt;20 To 40, Deduct</i>	-207.41	
			<i>For &gt;40, Deduct</i>	-348.79	
26 56 13 00-0110	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,341.86	774.38
			<i>For &gt;10 To 20, Deduct</i>	-108.55	
			<i>For &gt;20 To 40, Deduct</i>	-217.09	
			<i>For &gt;40, Deduct</i>	-364.36	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0111 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	4,617.64	795.31
For >10 To 20, Deduct	-115.44	
For >20 To 40, Deduct	-230.88	
For >40, Deduct	-386.09	
26 56 13 00-0112 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	4,775.47	837.16
For >10 To 20, Deduct	-119.39	
For >20 To 40, Deduct	-238.77	
For >40, Deduct	-400.02	
26 56 13 00-0113 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	4,958.19	858.10
For >10 To 20, Deduct	-123.95	
For >20 To 40, Deduct	-247.91	
For >40, Deduct	-414.77	
26 56 13 00-0114 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	5,179.40	879.02
For >10 To 20, Deduct	-129.49	
For >20 To 40, Deduct	-258.97	
For >40, Deduct	-432.41	
26 56 13 00-0115 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 4' Upsweep Style Arms, Anchor Base.....	5,390.38	879.02
For >10 To 20, Deduct	-134.76	
For >20 To 40, Deduct	-269.52	
For >40, Deduct	-448.23	
26 56 13 00-0116 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 6' Upsweep Style Arms, Anchor Base.....	5,871.35	899.96
For >10 To 20, Deduct	-146.78	
For >20 To 40, Deduct	-293.57	
For >40, Deduct	-485.35	
26 56 13 00-0117 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 8' Upsweep Style Arms, Anchor Base.....	6,429.44	920.88
For >10 To 20, Deduct	-160.74	
For >20 To 40, Deduct	-321.47	
For >40, Deduct	-528.25	
<b>26 56 13 00-0118 Round Tapered, Aluminum Roadway Light Poles With Three Upsweep Style Arms</b> <small>(26 56 13 00-0092)</small>		
26 56 13 00-0119 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,010.37	669.74
For >10 To 20, Deduct	-100.26	
For >20 To 40, Deduct	-200.52	
For >40, Deduct	-334.26	
26 56 13 00-0120 EA 20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	4,287.02	711.59
For >10 To 20, Deduct	-107.18	
For >20 To 40, Deduct	-214.35	
For >40, Deduct	-357.11	
26 56 13 00-0121 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	4,885.30	837.16
For >10 To 20, Deduct	-122.13	
For >20 To 40, Deduct	-244.27	
For >40, Deduct	-408.26	
26 56 13 00-0122 EA 25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,096.60	879.02
For >10 To 20, Deduct	-127.42	
For >20 To 40, Deduct	-254.83	
For >40, Deduct	-426.20	
26 56 13 00-0123 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,337.63	920.88
For >10 To 20, Deduct	-133.44	
For >20 To 40, Deduct	-266.88	
For >40, Deduct	-446.37	
26 56 13 00-0124 EA 30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	5,531.17	962.75
For >10 To 20, Deduct	-138.28	
For >20 To 40, Deduct	-276.56	
For >40, Deduct	-462.97	
26 56 13 00-0125 EA 35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 4' Upsweep Style Arms, Anchor Base.....	5,759.61	962.75
For >10 To 20, Deduct	-143.99	
For >20 To 40, Deduct	-287.98	
For >40, Deduct	-480.11	
26 56 13 00-0126 EA 35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 6' Upsweep Style Arms, Anchor Base.....	6,248.73	1,004.60
For >10 To 20, Deduct	-156.22	
For >20 To 40, Deduct	-312.44	
For >40, Deduct	-518.88	
26 56 13 00-0127 EA 35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Three 8' Upsweep Style Arms, Anchor Base.....	11,728.59	1,046.46
For >10 To 20, Deduct	-293.21	
For >20 To 40, Deduct	-586.43	
For >40, Deduct	-931.97	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0128		<b>Round Tapered, Aluminum Roadway Light Poles With Four Upsweep Style Arms</b> <small>(26 56 13 00-0092)</small>		
	26 56 13 00-0129	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	4,177.20	753.45
			<i>For &gt;10 To 20, Deduct</i>	-104.43	
			<i>For &gt;20 To 40, Deduct</i>	-208.86	
			<i>For &gt;40, Deduct</i>	-350.96	
	26 56 13 00-0130	EA	20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	4,323.24	753.45
			<i>For &gt;10 To 20, Deduct</i>	-108.08	
			<i>For &gt;20 To 40, Deduct</i>	-216.16	
			<i>For &gt;40, Deduct</i>	-361.92	
	26 56 13 00-0131	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	5,346.71	920.88
			<i>For &gt;10 To 20, Deduct</i>	-133.67	
			<i>For &gt;20 To 40, Deduct</i>	-267.34	
			<i>For &gt;40, Deduct</i>	-447.05	
	26 56 13 00-0132	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	5,783.61	983.67
			<i>For &gt;10 To 20, Deduct</i>	-144.59	
			<i>For &gt;20 To 40, Deduct</i>	-289.18	
			<i>For &gt;40, Deduct</i>	-482.95	
	26 56 13 00-0133	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	6,024.38	1,004.60
			<i>For &gt;10 To 20, Deduct</i>	-150.61	
			<i>For &gt;20 To 40, Deduct</i>	-301.22	
			<i>For &gt;40, Deduct</i>	-502.06	
	26 56 13 00-0134	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	6,428.97	1,067.38
			<i>For &gt;10 To 20, Deduct</i>	-160.72	
			<i>For &gt;20 To 40, Deduct</i>	-321.45	
			<i>For &gt;40, Deduct</i>	-535.54	
	26 56 13 00-0135	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 4' Upsweep Style Arms, Anchor Base.....	6,339.63	1,046.46
			<i>For &gt;10 To 20, Deduct</i>	-158.49	
			<i>For &gt;20 To 40, Deduct</i>	-316.98	
			<i>For &gt;40, Deduct</i>	-527.80	
	26 56 13 00-0136	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 6' Upsweep Style Arms, Anchor Base.....	7,180.13	1,109.24
			<i>For &gt;10 To 20, Deduct</i>	-179.50	
			<i>For &gt;20 To 40, Deduct</i>	-359.01	
			<i>For &gt;40, Deduct</i>	-593.97	
	26 56 13 00-0137	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Four 8' Upsweep Style Arms, Anchor Base.....	7,925.98	1,172.03
			<i>For &gt;10 To 20, Deduct</i>	-198.15	
			<i>For &gt;20 To 40, Deduct</i>	-396.30	
			<i>For &gt;40, Deduct</i>	-653.05	
26 56	13 00-0138		<b>Round Tapered, Aluminum Roadway Light Poles With Truss Style Arms</b> <small>(26 56 13 00-0091)</small>		
26 56	13 00-0139		<b>Round Tapered, Aluminum Roadway Light Poles With Single Truss Style Arm</b> <small>(26 56 13 00-0138)</small>		
	26 56 13 00-0140	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,393.23	669.74
			<i>For &gt;10 To 20, Deduct</i>	-109.83	
			<i>For &gt;20 To 40, Deduct</i>	-219.66	
			<i>For &gt;40, Deduct</i>	-362.98	
	26 56 13 00-0141	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	4,425.75	669.74
			<i>For &gt;10 To 20, Deduct</i>	-110.64	
			<i>For &gt;20 To 40, Deduct</i>	-221.29	
			<i>For &gt;40, Deduct</i>	-365.42	
	26 56 13 00-0142	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	4,508.84	669.74
			<i>For &gt;10 To 20, Deduct</i>	-112.72	
			<i>For &gt;20 To 40, Deduct</i>	-225.44	
			<i>For &gt;40, Deduct</i>	-371.65	
	26 56 13 00-0143	EA	25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	4,633.53	669.74
			<i>For &gt;10 To 20, Deduct</i>	-115.84	
			<i>For &gt;20 To 40, Deduct</i>	-231.68	
			<i>For &gt;40, Deduct</i>	-381.00	
	26 56 13 00-0144	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	4,946.20	753.45
			<i>For &gt;10 To 20, Deduct</i>	-123.66	
			<i>For &gt;20 To 40, Deduct</i>	-247.31	
			<i>For &gt;40, Deduct</i>	-408.64	
	26 56 13 00-0145	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,019.52	753.45
			<i>For &gt;10 To 20, Deduct</i>	-125.49	
			<i>For &gt;20 To 40, Deduct</i>	-250.98	
			<i>For &gt;40, Deduct</i>	-414.14	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0146	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	5,097.73	753.45
			<i>For &gt;10 To 20, Deduct</i>	-127.44	
			<i>For &gt;20 To 40, Deduct</i>	-254.89	
			<i>For &gt;40, Deduct</i>	-420.00	
26 56	13 00-0147	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	5,569.47	753.45
			<i>For &gt;10 To 20, Deduct</i>	-139.24	
			<i>For &gt;20 To 40, Deduct</i>	-278.47	
			<i>For &gt;40, Deduct</i>	-455.38	
26 56	13 00-0148	EA	35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Truss Style Arm, Anchor Base.....	5,365.40	795.31
			<i>For &gt;10 To 20, Deduct</i>	-134.14	
			<i>For &gt;20 To 40, Deduct</i>	-268.27	
			<i>For &gt;40, Deduct</i>	-442.17	
26 56	13 00-0149	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 10' Truss Style Arm, Anchor Base.....	5,970.70	795.31
			<i>For &gt;10 To 20, Deduct</i>	-149.27	
			<i>For &gt;20 To 40, Deduct</i>	-298.54	
			<i>For &gt;40, Deduct</i>	-487.57	
26 56	13 00-0150	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 12' Truss Style Arm, Anchor Base.....	6,029.66	795.31
			<i>For &gt;10 To 20, Deduct</i>	-150.74	
			<i>For &gt;20 To 40, Deduct</i>	-301.48	
			<i>For &gt;40, Deduct</i>	-491.99	
26 56	13 00-0151	EA	35' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	6,403.93	795.31
			<i>For &gt;10 To 20, Deduct</i>	-160.10	
			<i>For &gt;20 To 40, Deduct</i>	-320.20	
			<i>For &gt;40, Deduct</i>	-520.06	
26 56	13 00-0152	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 15' Truss Style Arm, Anchor Base.....	6,745.29	795.31
			<i>For &gt;10 To 20, Deduct</i>	-168.63	
			<i>For &gt;20 To 40, Deduct</i>	-337.26	
			<i>For &gt;40, Deduct</i>	-545.66	
<b>26 56 13 00-0153 Round Tapered, Aluminum Roadway Light Poles With Two Truss Style Arms</b>					
<i>(26 56 13 00-0138)</i>					
26 56	13 00-0154	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	5,689.51	837.16
			<i>For &gt;10 To 20, Deduct</i>	-142.24	
			<i>For &gt;20 To 40, Deduct</i>	-284.48	
			<i>For &gt;40, Deduct</i>	-468.57	
26 56	13 00-0155	EA	25' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	5,856.33	879.02
			<i>For &gt;10 To 20, Deduct</i>	-146.41	
			<i>For &gt;20 To 40, Deduct</i>	-292.82	
			<i>For &gt;40, Deduct</i>	-483.18	
26 56	13 00-0156	EA	25' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	5,993.51	920.88
			<i>For &gt;10 To 20, Deduct</i>	-149.84	
			<i>For &gt;20 To 40, Deduct</i>	-299.68	
			<i>For &gt;40, Deduct</i>	-495.56	
26 56	13 00-0157	EA	30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	6,135.96	920.88
			<i>For &gt;10 To 20, Deduct</i>	-153.40	
			<i>For &gt;20 To 40, Deduct</i>	-306.80	
			<i>For &gt;40, Deduct</i>	-506.24	
26 56	13 00-0158	EA	30' High, 8" Base OD, 0.219" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	6,652.80	962.75
			<i>For &gt;10 To 20, Deduct</i>	-166.32	
			<i>For &gt;20 To 40, Deduct</i>	-332.64	
			<i>For &gt;40, Deduct</i>	-547.10	
26 56	13 00-0159	EA	30' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	7,591.11	1,004.60
			<i>For &gt;10 To 20, Deduct</i>	-189.78	
			<i>For &gt;20 To 40, Deduct</i>	-379.56	
			<i>For &gt;40, Deduct</i>	-619.56	
26 56	13 00-0160	EA	35' High, 8" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 10' Truss Style Arms, Anchor Base.....	7,338.21	962.75
			<i>For &gt;10 To 20, Deduct</i>	-183.46	
			<i>For &gt;20 To 40, Deduct</i>	-366.91	
			<i>For &gt;40, Deduct</i>	-598.50	
26 56	13 00-0161	EA	35' High, 10" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 12' Truss Style Arms, Anchor Base.....	7,491.56	1,004.60
			<i>For &gt;10 To 20, Deduct</i>	-187.29	
			<i>For &gt;20 To 40, Deduct</i>	-374.58	
			<i>For &gt;40, Deduct</i>	-612.10	
26 56	13 00-0162	EA	35' High, 10" Base OD, 0.250" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Two 15' Truss Style Arms, Anchor Base.....	9,036.67	1,046.46
			<i>For &gt;10 To 20, Deduct</i>	-225.92	
			<i>For &gt;20 To 40, Deduct</i>	-451.83	
			<i>For &gt;40, Deduct</i>	-730.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0163			Round Tapered, Aluminum Roadway Light Poles With Davit Style Arm <sup>(26 56 13 00-0091)</sup>		
26 56 13 00-0164			Round Tapered, Aluminum Roadway Light Poles With Single Davit Style Arm <sup>(26 56 13 00-0163)</sup>		
26 56 13 00-0165	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base .....	3,583.63	502.30
			For >10 To 20, Deduct .....	-89.59	
			For >20 To 40, Deduct .....	-179.18	
			For >40, Deduct .....	-293.89	
26 56 13 00-0166	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base .....	3,675.50	502.30
			For >10 To 20, Deduct .....	-91.89	
			For >20 To 40, Deduct .....	-183.78	
			For >40, Deduct .....	-300.78	
26 56 13 00-0167	EA		20' High, 6" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base .....	3,767.58	502.30
			For >10 To 20, Deduct .....	-94.19	
			For >20 To 40, Deduct .....	-188.38	
			For >40, Deduct .....	-307.68	
26 56 13 00-0168	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base .....	4,294.17	669.74
			For >10 To 20, Deduct .....	-107.35	
			For >20 To 40, Deduct .....	-214.71	
			For >40, Deduct .....	-355.55	
26 56 13 00-0169	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base .....	4,364.20	669.74
			For >10 To 20, Deduct .....	-109.11	
			For >20 To 40, Deduct .....	-218.21	
			For >40, Deduct .....	-360.80	
26 56 13 00-0170	EA		25' High, 7" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base .....	4,440.71	669.74
			For >10 To 20, Deduct .....	-111.02	
			For >20 To 40, Deduct .....	-222.04	
			For >40, Deduct .....	-366.54	
26 56 13 00-0171	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base .....	4,845.45	753.45
			For >10 To 20, Deduct .....	-121.14	
			For >20 To 40, Deduct .....	-242.27	
			For >40, Deduct .....	-401.08	
26 56 13 00-0172	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base .....	4,940.52	753.45
			For >10 To 20, Deduct .....	-123.51	
			For >20 To 40, Deduct .....	-247.03	
			For >40, Deduct .....	-408.21	
26 56 13 00-0173	EA		30' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base .....	4,954.78	753.45
			For >10 To 20, Deduct .....	-123.87	
			For >20 To 40, Deduct .....	-247.74	
			For >40, Deduct .....	-409.28	
26 56 13 00-0174	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 4' Davit Style Arm, Anchor Base .....	5,267.44	795.31
			For >10 To 20, Deduct .....	-131.69	
			For >20 To 40, Deduct .....	-263.37	
			For >40, Deduct .....	-434.82	
26 56 13 00-0175	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 6' Davit Style Arm, Anchor Base .....	5,309.13	795.31
			For >10 To 20, Deduct .....	-132.73	
			For >20 To 40, Deduct .....	-265.46	
			For >40, Deduct .....	-437.95	
26 56 13 00-0176	EA		35' High, 8" Base OD, 0.188" Wall Thickness, Round Tapered, Aluminum Roadway Light Pole With Single 8' Davit Style Arm, Anchor Base .....	5,406.89	795.31
			For >10 To 20, Deduct .....	-135.17	
			For >20 To 40, Deduct .....	-270.34	
			For >40, Deduct .....	-445.28	
26 56 13 00-0177			Area Light Poles <sup>(26 56 13 00-0001)</sup> Note: Excludes lighting fixtures.		
26 56 13 00-0178			Steel Area Light Poles <sup>(26 56 13 00-0177)</sup> Note: Includes powdercoat finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
26 56 13 00-0179			Round Straight, Steel Area Light Poles <sup>(26 56 13 00-0178)</sup>		
26 56 13 00-0180			Round Straight, Steel Area Light Poles, Anchor Base <sup>(26 56 13 00-0179)</sup>		
26 56 13 00-0181	EA		10' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....	1,515.11	293.01
			For Galvanized Finish, Add .....	27.87	
			For >10 To 20, Deduct .....	-51.81	
			For >20 To 40, Deduct .....	-94.34	
			For >40, Deduct .....	-197.97	
26 56 13 00-0182	EA		12' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....	1,650.31	334.87
			For Galvanized Finish, Add .....	29.42	
			For >10 To 20, Deduct .....	-55.97	
			For >20 To 40, Deduct .....	-102.13	
			For >40, Deduct .....	-214.06	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0183 EA 14' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,844.69	376.73
For Galvanized Finish, Add	32.74	
For >10 To 20, Deduct	-62.49	
For >20 To 40, Deduct	-114.06	
For >40, Deduct	-239.03	
26 56 13 00-0184 EA 16' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,044.21	418.58
For Galvanized Finish, Add	36.21	
For >10 To 20, Deduct	-69.21	
For >20 To 40, Deduct	-126.35	
For >40, Deduct	-264.77	
26 56 13 00-0185 EA 18' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,179.40	460.44
For Galvanized Finish, Add	37.76	
For >10 To 20, Deduct	-73.36	
For >20 To 40, Deduct	-134.14	
For >40, Deduct	-280.87	
26 56 13 00-0186 EA 20' High, 3" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,301.73	502.30
For Galvanized Finish, Add	38.91	
For >10 To 20, Deduct	-77.00	
For >20 To 40, Deduct	-141.03	
For >40, Deduct	-295.03	
26 56 13 00-0187 EA 10' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,582.03	293.01
For Galvanized Finish, Add	29.88	
For >10 To 20, Deduct	-54.49	
For >20 To 40, Deduct	-99.02	
For >40, Deduct	-208.00	
26 56 13 00-0188 EA 12' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,719.80	334.87
For Galvanized Finish, Add	31.50	
For >10 To 20, Deduct	-58.75	
For >20 To 40, Deduct	-106.99	
For >40, Deduct	-224.48	
26 56 13 00-0189 EA 14' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,983.66	376.73
For Galvanized Finish, Add	36.91	
For >10 To 20, Deduct	-68.04	
For >20 To 40, Deduct	-123.79	
For >40, Deduct	-259.88	
26 56 13 00-0190 EA 16' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,134.29	418.58
For Galvanized Finish, Add	38.91	
For >10 To 20, Deduct	-72.81	
For >20 To 40, Deduct	-132.66	
For >40, Deduct	-278.29	
26 56 13 00-0191 EA 18' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,277.20	460.44
For Galvanized Finish, Add	40.69	
For >10 To 20, Deduct	-77.27	
For >20 To 40, Deduct	-140.99	
For >40, Deduct	-295.54	
26 56 13 00-0192 EA 20' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,394.38	502.30
For Galvanized Finish, Add	41.69	
For >10 To 20, Deduct	-80.71	
For >20 To 40, Deduct	-147.51	
For >40, Deduct	-308.93	
26 56 13 00-0193 EA 25' High, 4" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,824.48	669.74
For Galvanized Finish, Add	44.55	
For >10 To 20, Deduct	-92.89	
For >20 To 40, Deduct	-170.92	
For >40, Deduct	-356.70	
26 56 13 00-0194 EA 10' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,582.03	293.01
For Galvanized Finish, Add	29.88	
For >10 To 20, Deduct	-54.49	
For >20 To 40, Deduct	-99.02	
For >40, Deduct	-208.00	
26 56 13 00-0195 EA 12' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	1,727.52	334.87
For Galvanized Finish, Add	31.73	
For >10 To 20, Deduct	-59.05	
For >20 To 40, Deduct	-107.53	
For >40, Deduct	-225.64	
26 56 13 00-0196 EA 14' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,024.84	376.73
For Galvanized Finish, Add	38.14	
For >10 To 20, Deduct	-69.69	
For >20 To 40, Deduct	-126.67	
For >40, Deduct	-266.05	
26 56 13 00-0197 EA 16' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,142.01	418.58
For Galvanized Finish, Add	39.15	
For >10 To 20, Deduct	-73.12	
For >20 To 40, Deduct	-133.20	
For >40, Deduct	-279.44	
26 56 13 00-0198 EA 18' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,277.20	460.44
For Galvanized Finish, Add	40.69	
For >10 To 20, Deduct	-77.27	
For >20 To 40, Deduct	-140.99	
For >40, Deduct	-295.54	
26 56 13 00-0199 EA 20' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,394.38	502.30
For Galvanized Finish, Add	41.69	
For >10 To 20, Deduct	-80.71	
For >20 To 40, Deduct	-147.51	
For >40, Deduct	-308.93	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0200	EA		25' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....	2,896.54	669.74
			<i>For Galvanized Finish, Add</i>	46.71	
			<i>For &gt;10 To 20, Deduct</i>	-95.77	
			<i>For &gt;20 To 40, Deduct</i>	-175.97	
			<i>For &gt;40, Deduct</i>	-367.51	
26 56 13 00-0201	EA		30' High, 4-1/2" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base .....	3,197.80	753.45
			<i>For Galvanized Finish, Add</i>	50.73	
			<i>For &gt;10 To 20, Deduct</i>	-105.31	
			<i>For &gt;20 To 40, Deduct</i>	-193.71	
			<i>For &gt;40, Deduct</i>	-404.33	
26 56 13 00-0202	EA		20' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,559.10	502.30
			<i>For Galvanized Finish, Add</i>	46.64	
			<i>For &gt;10 To 20, Deduct</i>	-87.30	
			<i>For &gt;20 To 40, Deduct</i>	-159.05	
			<i>For &gt;40, Deduct</i>	-333.64	
26 56 13 00-0203	EA		25' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	2,930.00	669.74
			<i>For Galvanized Finish, Add</i>	47.72	
			<i>For &gt;10 To 20, Deduct</i>	-97.11	
			<i>For &gt;20 To 40, Deduct</i>	-178.31	
			<i>For &gt;40, Deduct</i>	-372.53	
26 56 13 00-0204	EA		30' High, 5" OD, 11 Gauge, Round Straight, Steel Area Light Pole, Anchor Base.....	3,262.14	753.45
			<i>For Galvanized Finish, Add</i>	52.66	
			<i>For &gt;10 To 20, Deduct</i>	-107.88	
			<i>For &gt;20 To 40, Deduct</i>	-198.21	
			<i>For &gt;40, Deduct</i>	-413.98	
26 56 13 00-0205			Round Tapered, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0206			Round Tapered, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0205)</small>		
26 56 13 00-0207	EA		20' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,140.75	502.30
			<i>For Galvanized Finish, Add</i>	64.08	
			<i>For &gt;10 To 20, Deduct</i>	-110.56	
			<i>For &gt;20 To 40, Deduct</i>	-199.76	
			<i>For &gt;40, Deduct</i>	-420.88	
26 56 13 00-0208	EA		20' High, 6.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,220.53	502.30
			<i>For Galvanized Finish, Add</i>	66.48	
			<i>For &gt;10 To 20, Deduct</i>	-113.75	
			<i>For &gt;20 To 40, Deduct</i>	-205.35	
			<i>For &gt;40, Deduct</i>	-432.85	
26 56 13 00-0209	EA		25' High, 5.90" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,730.41	669.74
			<i>For Galvanized Finish, Add</i>	71.73	
			<i>For &gt;10 To 20, Deduct</i>	-129.12	
			<i>For &gt;20 To 40, Deduct</i>	-234.34	
			<i>For &gt;40, Deduct</i>	-492.59	
26 56 13 00-0210	EA		25' High, 7.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	3,895.12	669.74
			<i>For Galvanized Finish, Add</i>	76.67	
			<i>For &gt;10 To 20, Deduct</i>	-135.71	
			<i>For &gt;20 To 40, Deduct</i>	-245.87	
			<i>For &gt;40, Deduct</i>	-517.29	
26 56 13 00-0211	EA		30' High, 6.60" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,155.21	753.45
			<i>For Galvanized Finish, Add</i>	79.45	
			<i>For &gt;10 To 20, Deduct</i>	-143.60	
			<i>For &gt;20 To 40, Deduct</i>	-260.73	
			<i>For &gt;40, Deduct</i>	-547.94	
26 56 13 00-0212	EA		30' High, 8.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,430.59	753.45
			<i>For Galvanized Finish, Add</i>	87.71	
			<i>For &gt;10 To 20, Deduct</i>	-154.62	
			<i>For &gt;20 To 40, Deduct</i>	-280.00	
			<i>For &gt;40, Deduct</i>	-589.24	
26 56 13 00-0213	EA		35' High, 7.30" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,570.93	795.31
			<i>For Galvanized Finish, Add</i>	89.41	
			<i>For &gt;10 To 20, Deduct</i>	-158.98	
			<i>For &gt;20 To 40, Deduct</i>	-288.15	
			<i>For &gt;40, Deduct</i>	-606.11	
26 56 13 00-0214	EA		35' High, 8.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	4,740.79	795.31
			<i>For Galvanized Finish, Add</i>	94.51	
			<i>For &gt;10 To 20, Deduct</i>	-165.77	
			<i>For &gt;20 To 40, Deduct</i>	-300.04	
			<i>For &gt;40, Deduct</i>	-631.59	
26 56 13 00-0215	EA		35' High, 9.50" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,147.43	795.31
			<i>For Galvanized Finish, Add</i>	106.70	
			<i>For &gt;10 To 20, Deduct</i>	-182.04	
			<i>For &gt;20 To 40, Deduct</i>	-328.51	
			<i>For &gt;40, Deduct</i>	-692.58	
26 56 13 00-0216	EA		39' High, 7.82" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,200.26	837.16
			<i>For Galvanized Finish, Add</i>	105.78	
			<i>For &gt;10 To 20, Deduct</i>	-182.90	
			<i>For &gt;20 To 40, Deduct</i>	-330.53	
			<i>For &gt;40, Deduct</i>	-696.32	
26 56 13 00-0217	EA		39' High, 9.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base.....	5,272.32	837.16
			<i>For Galvanized Finish, Add</i>	107.94	
			<i>For &gt;10 To 20, Deduct</i>	-185.78	
			<i>For &gt;20 To 40, Deduct</i>	-335.58	
			<i>For &gt;40, Deduct</i>	-707.13	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0218	EA	45' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	7,161.84 149.56 -253.82 -457.80 -965.44	1,088.32
26 56	13 00-0219	EA	50' High, 10.00" Base OD, 11 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	7,481.26 149.09 -261.58 -473.46 -996.61	1,255.75
26 56	13 00-0220	EA	30' High, 7.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,012.10 110.18 -180.39 -324.06 -684.84	669.74
26 56	13 00-0221	EA	30' High, 8.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,689.11 125.47 -204.96 -368.10 -778.02	753.45
26 56	13 00-0222	EA	39' High, 9.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,587.47 147.39 -238.38 -427.64 -904.40	837.16
26 56	13 00-0223	EA	45' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	7,964.82 173.65 -285.94 -514.00 -1,085.89	1,088.32
26 56	13 00-0224	EA	50' High, 10.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	9,293.12 203.45 -334.05 -600.29 -1,268.39	1,255.75
26 56	13 00-0225	EA	50' High, 11.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	10,340.60 234.87 -375.95 -673.61 -1,425.52	1,255.75
26 56	13 00-0226	EA	50' High, 13.00" Base OD, 7 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	13,840.80 339.88 -515.96 -918.63 -1,950.55	1,255.75
26 56	13 00-0227	EA	50' High, 13.00" Base OD, 3 Gauge, Round Tapered, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	15,539.42 390.84 -583.90 -1,037.53 -2,205.34	1,255.75
26 56	13 00-0228		Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56	13 00-0229		Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0228)</small>		
26 56	13 00-0230	EA	10' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,494.53 27.26 -50.99 -92.90 -194.88	293.01
26 56	13 00-0231	EA	12' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,578.25 27.26 -53.08 -97.08 -203.25	334.87
26 56	13 00-0232	EA	14' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,705.71 28.57 -56.93 -104.33 -218.18	376.73
26 56	13 00-0233	EA	15' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,809.34 30.42 -60.44 -110.75 -231.64	397.66
26 56	13 00-0234	EA	16' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,851.19 30.42 -61.49 -112.84 -235.82	418.58
26 56	13 00-0235	EA	18' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,963.22 31.27 -64.72 -119.01 -248.44	460.44

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0236 EA 20' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,070.10 31.97 -67.74 -124.82 -260.29	502.30
26 56 13 00-0237 EA 25' High, 4" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,559.39 36.60 -82.28 -152.37 -316.94	669.74
26 56 13 00-0238 EA 20' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,417.54 42.39 -81.63 -149.14 -312.40	502.30
26 56 13 00-0239 EA 25' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,038.09 50.96 -101.43 -185.88 -388.74	669.74
26 56 13 00-0240 EA 30' High, 5" OD, 11 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,486.05 59.37 -116.84 -213.89 -447.56	753.45
26 56 13 00-0241 EA 20' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,322.32 39.53 -77.82 -142.47 -298.12	502.30
26 56 13 00-0242 EA 25' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,852.79 45.40 -94.02 -172.91 -360.95	669.74
26 56 13 00-0243 EA 30' High, 4" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,326.48 54.59 -110.46 -202.72 -423.63	753.45
26 56 13 00-0244 EA 20' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,649.18 49.34 -90.90 -165.35 -347.15	502.30
26 56 13 00-0245 EA 25' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,269.72 57.91 -110.70 -202.09 -423.48	669.74
26 56 13 00-0246 EA 30' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,704.81 65.94 -125.59 -229.20 -480.38	753.45
26 56 13 00-0247 EA 35' High, 5" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,107.67 75.51 -140.45 -255.72 -536.62	795.31
26 56 13 00-0248 EA 30' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,211.83 81.15 -145.87 -264.69 -556.43	753.45
26 56 13 00-0249 EA 35' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,617.26 90.80 -160.83 -291.40 -613.06	795.31
26 56 13 00-0250 EA 40' High, 6" OD, 7 Gauge, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,883.70 96.28 -170.23 -308.37 -648.84	837.16
26 56 13 00-0251 Hinged, Square Straight, Steel Area Light Poles <small>(26 56 13 00-0178)</small>		
26 56 13 00-0252 Hinged, Square Straight, Steel Area Light Poles, Anchor Base <small>(26 56 13 00-0251)</small>		
26 56 13 00-0253 EA 20' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,272.28 128.03 -195.82 -348.97 -740.61	502.30



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0254	EA		25' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,897.32 136.74 -215.80 -386.02 -817.62	669.74
26 56 13 00-0255	EA		30' High, 6.44" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	8,232.81 201.78 -306.71 -546.16 -1,159.58	753.45
26 56 13 00-0256	EA		20' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,376.31 131.15 -199.98 -356.25 -756.22	502.30
26 56 13 00-0257	EA		25' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,502.30 154.88 -240.00 -428.37 -908.37	669.74
26 56 13 00-0258	EA		30' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	9,133.43 228.80 -342.73 -609.20 -1,294.67	753.45
26 56 13 00-0259	EA		35' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	10,473.64 266.49 -395.09 -701.34 -1,491.52	795.31
26 56 13 00-0260	EA		39' High, 7.32" OD, 11 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	12,301.11 318.80 -466.93 -827.59 -1,761.45	837.16
26 56 13 00-0261	EA		20' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,108.04 123.10 -189.25 -337.47 -715.98	502.30
26 56 13 00-0262	EA		25' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,634.53 128.85 -205.29 -367.63 -778.21	669.74
26 56 13 00-0263	EA		30' High, 4" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	7,770.18 187.90 -288.20 -513.77 -1,090.18	753.45
26 56 13 00-0264	EA		20' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,296.92 128.77 -196.81 -350.69 -744.31	502.30
26 56 13 00-0265	EA		25' High, 6.44" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,255.93 147.49 -230.15 -411.13 -871.42	669.74
26 56 13 00-0266	EA		30' High, 6.44" OD, 7 Gauge, Hinged Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	8,791.25 218.53 -329.05 -585.25 -1,243.34	753.45
26 56 13 00-0267	EA		20' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,587.09 137.47 -208.41 -371.00 -787.83	502.30
26 56 13 00-0268	EA		25' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,778.78 163.18 -251.06 -447.73 -949.84	669.74
26 56 13 00-0269	EA		30' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	9,407.18 237.01 -353.68 -628.36 -1,335.73	753.45
26 56 13 00-0270	EA		35' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	10,807.61 276.51 -408.45 -724.72 -1,541.61	795.31

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0271	EA	39' High, 7.32" OD, 7 Gauge, Hinged, Square Straight, Steel Area Light Pole, Anchor Base ..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	12,479.04 324.14 -474.05 -840.05 -1,788.14	837.16
<b>26 56 13 00-0272</b>		<b>Square Tapered, Steel Area Light Poles</b> <small>(26 56 13 00-0178)</small>		
<b>26 56 13 00-0273</b>		<b>Square Tapered, Steel Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0272)</small>		
26 56 13 00-0274	EA	20' High, 5.25" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,008.07 90.10 -145.25 -260.47 -550.98	502.30
26 56 13 00-0275	EA	25' High, 6.00" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,873.12 106.01 -174.83 -314.33 -663.99	669.74
26 56 13 00-0276	EA	35' High, 6.41" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,424.03 117.51 -194.36 -349.54 -738.26	753.45
26 56 13 00-0277	EA	35' High, 6.81" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,014.76 132.72 -216.73 -389.22 -822.68	795.31
26 56 13 00-0278	EA	39' High, 7.18" Base OD, 11 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,340.39 139.98 -228.50 -410.34 -867.34	837.16
26 56 13 00-0279	EA	20' High, 5.50" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,163.65 124.77 -191.48 -341.36 -724.32	502.30
26 56 13 00-0280	EA	25' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	5,779.05 133.19 -211.07 -377.74 -799.88	669.74
26 56 13 00-0281	EA	30' High, 6.41" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,165.24 139.75 -224.01 -401.43 -849.44	753.45
26 56 13 00-0282	EA	30' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,844.69 160.13 -251.18 -448.99 -951.36	753.45
26 56 13 00-0283	EA	35' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	7,417.41 174.80 -272.84 -487.41 -1,033.08	795.31
26 56 13 00-0284	EA	35' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	8,259.00 200.05 -306.50 -546.32 -1,159.32	795.31
26 56 13 00-0285	EA	39' High, 7.13" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	7,539.72 175.96 -276.47 -494.29 -1,047.24	837.16
26 56 13 00-0286	EA	39' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	9,611.53 238.12 -359.35 -639.32 -1,358.01	837.16
26 56 13 00-0287	EA	45' High, 7.88" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	8,914.51 202.14 -323.93 -580.48 -1,228.34	1,088.32
26 56 13 00-0288	EA	45' High, 8.75" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	10,327.45 244.52 -380.45 -679.39 -1,440.29	1,088.32





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0289 EA 50' High, 8.81" Base OD, 7 Gauge, Square Tapered, Steel Area Light Pole, Anchor Base ..... <i>For Galvanized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	10,734.38 246.69 -391.70 -701.18 -1,484.58	1,255.75
<b>26 56 13 00-0290 Factory Accessories For Steel Area Light Poles</b> <small>(26 56 13 00-0178)</small>		
26 56 13 00-0291 EA 1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Steel Area Light Poles.....	91.25	
26 56 13 00-0292 EA Extra Handhole For Steel Area Light Poles .....	135.70	
26 56 13 00-0293 EA Vibration Dampener For Steel Area Light Poles .....	138.04	
<b>26 56 13 00-0294 Aluminum Area Light Poles</b> <small>(26 56 13 00-0177)</small>		
Note: Includes satin brushed or painted finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions, factory drilled fixture mounting holes and tenon, open or capped top.		
<b>26 56 13 00-0295 Round Straight, Aluminum Area Light Poles</b> <small>(26 56 13 00-0294)</small>		
<b>26 56 13 00-0296 Round Straight, Aluminum Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0295)</small>		
26 56 13 00-0297 EA 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	948.07 44.58 89.15 -30.39 -56.32 -117.10	251.15
26 56 13 00-0298 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,054.65 46.86 93.73 -33.40 -62.11 -128.90	293.01
26 56 13 00-0299 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,166.95 49.72 99.44 -36.63 -68.29 -141.56	334.87
26 56 13 00-0300 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,280.38 52.69 105.39 -39.91 -74.56 -154.38	376.73
26 56 13 00-0301 EA 15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,341.67 54.64 109.27 -41.74 -78.01 -161.49	397.66
26 56 13 00-0302 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,401.81 56.47 112.93 -43.52 -81.38 -168.41	418.58
26 56 13 00-0303 EA 16' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,470.39 63.32 126.65 -46.26 -86.18 -178.70	418.58
26 56 13 00-0304 EA 18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,597.54 67.67 135.33 -50.09 -93.41 -193.59	460.44
26 56 13 00-0305 EA 20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,717.84 71.32 142.65 -53.64 -100.16 -207.45	502.30
26 56 13 00-0306 EA 15' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,594.27 79.90 159.79 -51.84 -95.69 -199.38	397.66
26 56 13 00-0307 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,970.44 96.58 193.17 -63.75 -117.84 -245.34	502.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0308 EA 20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....	2,098.46	502.30
For Bronze Or Satin Anodized Finish, Add	109.39	
For Black Anodized Finish, Add	218.77	
For >10 To 20, Deduct	-68.87	
For >20 To 40, Deduct	-126.80	
For >40, Deduct	-264.54	
26 56 13 00-0309 EA 25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....	2,553.35	669.74
For Bronze Or Satin Anodized Finish, Add	121.39	
For Black Anodized Finish, Add	242.78	
For >10 To 20, Deduct	-82.04	
For >20 To 40, Deduct	-151.95	
For >40, Deduct	-316.03	
26 56 13 00-0310 EA 30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Anchor Base .....	2,948.24	753.45
For Bronze Or Satin Anodized Finish, Add	144.13	
For Black Anodized Finish, Add	288.27	
For >10 To 20, Deduct	-95.33	
For >20 To 40, Deduct	-176.24	
For >40, Deduct	-366.89	
26 56 13 00-0311 EA 20' High, 4" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....	1,796.71	502.30
For Bronze Or Satin Anodized Finish, Add	79.21	
For Black Anodized Finish, Add	158.42	
For >10 To 20, Deduct	-56.80	
For >20 To 40, Deduct	-105.68	
For >40, Deduct	-219.28	
26 56 13 00-0312 EA 20' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....	2,088.17	502.30
For Bronze Or Satin Anodized Finish, Add	108.36	
For Black Anodized Finish, Add	216.71	
For >10 To 20, Deduct	-68.46	
For >20 To 40, Deduct	-126.08	
For >40, Deduct	-263.00	
26 56 13 00-0313 EA 25' High, 5" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....	2,535.06	669.74
For Bronze Or Satin Anodized Finish, Add	119.56	
For Black Anodized Finish, Add	239.12	
For >10 To 20, Deduct	-81.31	
For >20 To 40, Deduct	-150.66	
For >40, Deduct	-313.29	
26 56 13 00-0314 EA 25' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....	2,700.79	669.74
For Bronze Or Satin Anodized Finish, Add	136.13	
For Black Anodized Finish, Add	272.26	
For >10 To 20, Deduct	-87.94	
For >20 To 40, Deduct	-162.27	
For >40, Deduct	-338.15	
26 56 13 00-0315 EA 30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Anchor Base .....	3,135.69	753.45
For Bronze Or Satin Anodized Finish, Add	162.88	
For Black Anodized Finish, Add	325.76	
For >10 To 20, Deduct	-102.82	
For >20 To 40, Deduct	-189.36	
For >40, Deduct	-395.01	
<b>26 56 13 00-0316 Round Straight, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0295)</b>		
26 56 13 00-0317 EA 8' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,064.66	251.15
For Bronze, Satin Or Black Anodized Finish, Add	84.35	
For >10 To 20, Deduct	-35.05	
For >20 To 40, Deduct	-64.48	
For >40, Deduct	-134.58	
26 56 13 00-0318 EA 10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,194.10	293.01
For Bronze, Satin Or Black Anodized Finish, Add	91.21	
For >10 To 20, Deduct	-38.97	
For >20 To 40, Deduct	-71.87	
For >40, Deduct	-149.81	
26 56 13 00-0319 EA 12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,318.97	334.87
For Bronze, Satin Or Black Anodized Finish, Add	97.38	
For >10 To 20, Deduct	-42.71	
For >20 To 40, Deduct	-78.93	
For >40, Deduct	-164.36	
26 56 13 00-0320 EA 14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,422.11	376.73
For Bronze, Satin Or Black Anodized Finish, Add	100.30	
For >10 To 20, Deduct	-45.58	
For >20 To 40, Deduct	-84.48	
For >40, Deduct	-175.64	
26 56 13 00-0321 EA 16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,538.97	418.58
For Bronze, Satin Or Black Anodized Finish, Add	105.27	
For >10 To 20, Deduct	-49.00	
For >20 To 40, Deduct	-90.98	
For >40, Deduct	-188.99	
26 56 13 00-0322 EA 10' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,218.10	293.01
For Bronze, Satin Or Black Anodized Finish, Add	94.81	
For >10 To 20, Deduct	-39.93	
For >20 To 40, Deduct	-73.55	
For >40, Deduct	-153.41	
26 56 13 00-0323 EA 12' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base .....	1,340.69	334.87
For Bronze, Satin Or Black Anodized Finish, Add	100.64	
For >10 To 20, Deduct	-43.58	
For >20 To 40, Deduct	-80.45	
For >40, Deduct	-167.62	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0324 EA 14' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,466.69 106.99 -47.37 -87.60 -182.33	376.73
26 56 13 00-0325 EA 16' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,591.55 113.16 -51.10 -94.67 -196.87	418.58
26 56 13 00-0326 EA 18' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,722.13 120.19 -55.07 -102.13 -212.28	460.44
26 56 13 00-0327 EA 20' High, 5" OD, 0.125", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,845.86 126.19 -58.77 -109.12 -226.65	502.30
26 56 13 00-0328 EA 12' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,385.26 107.33 -45.36 -83.57 -174.30	334.87
26 56 13 00-0329 EA 14' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,519.27 114.87 -49.47 -91.28 -190.22	376.73
26 56 13 00-0330 EA 16' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,652.13 122.25 -53.53 -98.91 -205.96	418.58
26 56 13 00-0331 EA 18' High, 5" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,787.28 129.96 -57.68 -106.69 -222.05	460.44
26 56 13 00-0332 EA 16' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,716.13 131.85 -56.09 -103.39 -215.56	418.58
26 56 13 00-0333 EA 20' High, 6" OD, 0.156", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,995.59 148.65 -64.75 -119.60 -249.11	502.30
26 56 13 00-0334 EA 12' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,427.56 113.67 -47.06 -86.53 -180.65	334.87
26 56 13 00-0335 EA 14' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,574.13 123.10 -51.66 -95.12 -198.45	376.73
26 56 13 00-0336 EA 16' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,709.28 130.82 -55.81 -102.91 -214.53	418.58
26 56 13 00-0337 EA 18' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,851.29 139.56 -60.24 -111.17 -231.65	460.44
26 56 13 00-0338 EA 20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,989.87 147.79 -64.53 -119.20 -248.25	502.30
26 56 13 00-0339 EA 16' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,792.72 143.33 -59.15 -108.75 -227.05	418.58
26 56 13 00-0340 EA 18' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,945.02 153.62 -63.99 -117.73 -245.71	460.44

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0341	EA	20' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Hinged Anchor Base <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,025.31 153.11 -65.94 -121.68 -253.57	502.30
<b>26 56 13 00-0342 Round Straight, Aluminum Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0295)</small>					
Note: Includes rubberized undercoating on embedded portion.					
26 56	13 00-0343	EA	10' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	839.21 42.06 84.13 -27.29 -50.37 -104.95	209.30
26 56	13 00-0344	EA	12' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	902.78 44.23 88.47 -29.20 -53.99 -112.40	230.22
26 56	13 00-0345	EA	14' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	996.08 49.38 98.76 -32.31 -59.68 -124.30	251.15
26 56	13 00-0346	EA	15' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,022.37 52.01 104.01 -33.36 -61.52 -128.24	251.15
26 56	13 00-0347	EA	16' High, 4" OD, 0.125", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,055.52 55.32 110.64 -34.69 -63.84 -133.21	251.15
26 56	13 00-0348	EA	18' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,197.95 65.38 130.76 -39.76 -72.97 -152.49	272.08
26 56	13 00-0349	EA	20' High, 4" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,282.11 69.61 139.22 -42.49 -78.03 -163.02	293.01
26 56	13 00-0350	EA	20' High, 5" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,459.28 87.33 174.65 -49.58 -90.43 -189.59	293.01
26 56	13 00-0351	EA	25' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,770.46 110.07 220.14 -60.77 -110.54 -232.08	334.87
26 56	13 00-0352	EA	30' High, 6" OD, 0.188", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,007.33 125.39 250.78 -68.99 -125.44 -263.43	376.73
26 56	13 00-0353	EA	30' High, 6" OD, 0.250", Round Straight, Aluminum Area Light Pole, Direct Burial <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,216.50 146.31 292.61 -77.36 -140.09 -294.80	376.73
<b>26 56 13 00-0354 Round Tapered, Aluminum Area Light Poles</b> <small>(26 56 13 00-0294)</small>					
<b>26 56 13 00-0355 Round Tapered, Aluminum Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0354)</small>					
26 56	13 00-0356	EA	8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	825.77 32.35 64.69 -25.50 -47.76 -98.75	251.15



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0357 EA 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	935.78	293.01
For Bronze Or Satin Anodized Finish, Add	34.98	
For Black Anodized Finish, Add	69.95	
For >10 To 20, Deduct	-28.64	
For >20 To 40, Deduct	-53.78	
For >40, Deduct	-111.07	
26 56 13 00-0358 EA 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,045.79	334.87
For Bronze Or Satin Anodized Finish, Add	37.61	
For Black Anodized Finish, Add	75.21	
For >10 To 20, Deduct	-31.79	
For >20 To 40, Deduct	-59.81	
For >40, Deduct	-123.38	
26 56 13 00-0359 EA 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,166.08	376.73
For Bronze Or Satin Anodized Finish, Add	41.26	
For Black Anodized Finish, Add	82.53	
For >10 To 20, Deduct	-35.34	
For >20 To 40, Deduct	-66.56	
For >40, Deduct	-137.24	
26 56 13 00-0360 EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,285.22	418.58
For Bronze Or Satin Anodized Finish, Add	44.81	
For Black Anodized Finish, Add	89.61	
For >10 To 20, Deduct	-38.85	
For >20 To 40, Deduct	-73.22	
For >40, Deduct	-150.93	
26 56 13 00-0361 EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	965.50	293.01
For Bronze Or Satin Anodized Finish, Add	37.95	
For Black Anodized Finish, Add	75.90	
For >10 To 20, Deduct	-29.83	
For >20 To 40, Deduct	-55.86	
For >40, Deduct	-115.52	
26 56 13 00-0362 EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,092.65	334.87
For Bronze Or Satin Anodized Finish, Add	42.29	
For Black Anodized Finish, Add	84.58	
For >10 To 20, Deduct	-33.66	
For >20 To 40, Deduct	-63.09	
For >40, Deduct	-130.41	
26 56 13 00-0363 EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,216.37	376.73
For Bronze Or Satin Anodized Finish, Add	46.29	
For Black Anodized Finish, Add	92.58	
For >10 To 20, Deduct	-37.35	
For >20 To 40, Deduct	-70.08	
For >40, Deduct	-144.78	
26 56 13 00-0364 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,455.81	460.44
For Bronze Or Satin Anodized Finish, Add	53.49	
For Black Anodized Finish, Add	106.99	
For >10 To 20, Deduct	-44.42	
For >20 To 40, Deduct	-83.49	
For >40, Deduct	-172.33	
26 56 13 00-0365 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,568.10	502.30
For Bronze Or Satin Anodized Finish, Add	56.35	
For Black Anodized Finish, Add	112.70	
For >10 To 20, Deduct	-47.66	
For >20 To 40, Deduct	-89.68	
For >40, Deduct	-184.99	
26 56 13 00-0366 EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,134.95	334.87
For Bronze Or Satin Anodized Finish, Add	46.52	
For Black Anodized Finish, Add	93.04	
For >10 To 20, Deduct	-35.35	
For >20 To 40, Deduct	-66.05	
For >40, Deduct	-136.76	
26 56 13 00-0367 EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,265.52	376.73
For Bronze Or Satin Anodized Finish, Add	51.21	
For Black Anodized Finish, Add	102.41	
For >10 To 20, Deduct	-39.32	
For >20 To 40, Deduct	-73.52	
For >40, Deduct	-152.16	
26 56 13 00-0368 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,404.09	418.58
For Bronze Or Satin Anodized Finish, Add	56.69	
For Black Anodized Finish, Add	113.39	
For >10 To 20, Deduct	-43.61	
For >20 To 40, Deduct	-81.54	
For >40, Deduct	-168.76	
26 56 13 00-0369 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,522.10	460.44
For Bronze Or Satin Anodized Finish, Add	60.12	
For Black Anodized Finish, Add	120.24	
For >10 To 20, Deduct	-47.07	
For >20 To 40, Deduct	-88.13	
For >40, Deduct	-182.27	
26 56 13 00-0370 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	1,656.12	502.30
For Bronze Or Satin Anodized Finish, Add	65.15	
For Black Anodized Finish, Add	130.30	
For >10 To 20, Deduct	-51.18	
For >20 To 40, Deduct	-95.84	
For >40, Deduct	-198.19	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0371	EA	16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,516.11 67.90 135.79 -48.09 -89.38 -185.56	418.58
26 56	13 00-0372	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,664.98 74.41 148.82 -52.79 -98.13 -203.70	460.44
26 56	13 00-0373	EA	20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,766.99 76.24 152.48 -55.61 -103.60 -214.82	502.30
26 56	13 00-0374	EA	23' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,036.15 86.41 172.82 -63.87 -119.09 -246.82	586.02
26 56	13 00-0375	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,312.17 97.27 194.54 -72.39 -135.06 -279.85	669.74
26 56	13 00-0376	EA	18' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,776.99 85.61 171.22 -57.27 -105.97 -220.50	460.44
26 56	13 00-0377	EA	20' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,903.01 89.84 179.68 -61.05 -113.12 -235.22	502.30
26 56	13 00-0378	EA	23' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,143.59 97.16 194.31 -68.16 -126.61 -262.94	586.02
26 56	13 00-0379	EA	25' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,394.47 105.50 211.00 -75.69 -140.82 -292.20	669.74
26 56	13 00-0380	EA	28' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,570.77 114.76 229.52 -81.48 -151.49 -314.46	711.59
26 56	13 00-0381	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,749.35 124.25 248.49 -87.37 -162.32 -337.06	753.45
26 56	13 00-0382	EA	23' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,249.89 107.79 215.57 -72.42 -134.05 -278.88	586.02
26 56	13 00-0383	EA	25' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,465.33 112.59 225.17 -78.52 -145.78 -302.83	669.74
26 56	13 00-0384	EA	28' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,647.35 122.42 244.83 -84.55 -156.85 -325.94	711.59



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0385 EA 30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,868.22 136.13 272.26 -92.13 -170.64 -354.89	753.45
26 56 13 00-0386 EA 33' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,961.52 141.28 282.55 -95.23 -176.33 -366.79	774.38
26 56 13 00-0387 EA 35' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,141.68 155.11 310.21 -101.81 -188.11 -391.72	795.31
26 56 13 00-0388 EA 12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,181.81 51.21 102.41 -37.23 -69.33 -143.78	334.87
26 56 13 00-0389 EA 14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,320.38 56.69 113.39 -41.51 -77.36 -160.38	376.73
26 56 13 00-0390 EA 16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,463.53 62.64 125.27 -45.98 -85.70 -177.67	418.58
26 56 13 00-0391 EA 18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,594.11 67.32 134.65 -49.95 -93.17 -193.07	460.44
26 56 13 00-0392 EA 20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,723.55 71.90 143.79 -53.87 -100.56 -208.30	502.30
26 56 13 00-0393 EA 16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,588.12 75.10 150.19 -50.97 -94.43 -196.36	418.58
26 56 13 00-0394 EA 18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,740.42 81.95 163.91 -55.80 -103.41 -215.02	460.44
26 56 13 00-0395 EA 20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,857.29 85.27 170.54 -59.22 -109.92 -228.36	502.30
26 56 13 00-0396 EA 23' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,120.73 94.87 189.74 -67.25 -125.01 -259.51	586.02
26 56 13 00-0397 EA 25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,391.04 105.16 210.31 -75.55 -140.58 -291.68	669.74
26 56 13 00-0398 EA 23' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,379.05 120.70 241.40 -77.58 -143.09 -298.26	586.02

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0399	EA	25' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	2,636.79	669.74
			<i>For Bronze Or Satin Anodized Finish, Add</i>	129.73	
			<i>For Black Anodized Finish, Add</i>	259.46	
			<i>For &gt;10 To 20, Deduct</i>	-85.38	
			<i>For &gt;20 To 40, Deduct</i>	-157.79	
			<i>For &gt;40, Deduct</i>	-328.55	
26 56	13 00-0400	EA	28' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	2,832.52	711.59
			<i>For Bronze Or Satin Anodized Finish, Add</i>	140.93	
			<i>For Black Anodized Finish, Add</i>	281.87	
			<i>For &gt;10 To 20, Deduct</i>	-91.95	
			<i>For &gt;20 To 40, Deduct</i>	-169.81	
			<i>For &gt;40, Deduct</i>	-353.72	
26 56	13 00-0401	EA	30' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,008.82	753.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	150.19	
			<i>For Black Anodized Finish, Add</i>	300.38	
			<i>For &gt;10 To 20, Deduct</i>	-97.75	
			<i>For &gt;20 To 40, Deduct</i>	-180.48	
			<i>For &gt;40, Deduct</i>	-375.98	
26 56	13 00-0402	EA	33' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,161.55	774.38
			<i>For Bronze Or Satin Anodized Finish, Add</i>	161.28	
			<i>For Black Anodized Finish, Add</i>	322.56	
			<i>For &gt;10 To 20, Deduct</i>	-103.23	
			<i>For &gt;20 To 40, Deduct</i>	-190.33	
			<i>For &gt;40, Deduct</i>	-396.79	
26 56	13 00-0403	EA	35' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,295.99	795.31
			<i>For Bronze Or Satin Anodized Finish, Add</i>	170.54	
			<i>For Black Anodized Finish, Add</i>	341.07	
			<i>For &gt;10 To 20, Deduct</i>	-107.98	
			<i>For &gt;20 To 40, Deduct</i>	-198.91	
			<i>For &gt;40, Deduct</i>	-414.87	
26 56	13 00-0404	EA	37' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,412.14	816.24
			<i>For Bronze Or Satin Anodized Finish, Add</i>	177.97	
			<i>For Black Anodized Finish, Add</i>	355.93	
			<i>For &gt;10 To 20, Deduct</i>	-112.00	
			<i>For &gt;20 To 40, Deduct</i>	-206.20	
			<i>For &gt;40, Deduct</i>	-430.20	
26 56	13 00-0405	EA	39' High, 8" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,614.02	837.16
			<i>For Bronze Or Satin Anodized Finish, Add</i>	193.97	
			<i>For Black Anodized Finish, Add</i>	387.94	
			<i>For &gt;10 To 20, Deduct</i>	-119.45	
			<i>For &gt;20 To 40, Deduct</i>	-219.49	
			<i>For &gt;40, Deduct</i>	-458.39	
26 56	13 00-0406	EA	28' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,326.30	711.59
			<i>For Bronze Or Satin Anodized Finish, Add</i>	190.31	
			<i>For Black Anodized Finish, Add</i>	380.62	
			<i>For &gt;10 To 20, Deduct</i>	-111.70	
			<i>For &gt;20 To 40, Deduct</i>	-204.38	
			<i>For &gt;40, Deduct</i>	-427.79	
26 56	13 00-0407	EA	30' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,580.32	753.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	207.34	
			<i>For Black Anodized Finish, Add</i>	414.68	
			<i>For &gt;10 To 20, Deduct</i>	-120.61	
			<i>For &gt;20 To 40, Deduct</i>	-220.48	
			<i>For &gt;40, Deduct</i>	-461.70	
26 56	13 00-0408	EA	33' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,755.91	774.38
			<i>For Bronze Or Satin Anodized Finish, Add</i>	220.72	
			<i>For Black Anodized Finish, Add</i>	441.43	
			<i>For &gt;10 To 20, Deduct</i>	-127.01	
			<i>For &gt;20 To 40, Deduct</i>	-231.94	
			<i>For &gt;40, Deduct</i>	-485.95	
26 56	13 00-0409	EA	35' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,891.50	795.31
			<i>For Bronze Or Satin Anodized Finish, Add</i>	230.09	
			<i>For Black Anodized Finish, Add</i>	460.18	
			<i>For &gt;10 To 20, Deduct</i>	-131.80	
			<i>For &gt;20 To 40, Deduct</i>	-240.59	
			<i>For &gt;40, Deduct</i>	-504.19	
26 56	13 00-0410	EA	37' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,971.07	816.24
			<i>For Bronze Or Satin Anodized Finish, Add</i>	233.86	
			<i>For Black Anodized Finish, Add</i>	467.72	
			<i>For &gt;10 To 20, Deduct</i>	-134.36	
			<i>For &gt;20 To 40, Deduct</i>	-245.33	
			<i>For &gt;40, Deduct</i>	-514.04	
26 56	13 00-0411	EA	39' High, 10" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	4,192.38	837.16
			<i>For Bronze Or Satin Anodized Finish, Add</i>	251.81	
			<i>For Black Anodized Finish, Add</i>	503.61	
			<i>For &gt;10 To 20, Deduct</i>	-142.58	
			<i>For &gt;20 To 40, Deduct</i>	-259.98	
			<i>For &gt;40, Deduct</i>	-545.14	
26 56	13 00-0412	EA	28' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base .....	3,169.71	711.59
			<i>For Bronze Or Satin Anodized Finish, Add</i>	174.65	
			<i>For Black Anodized Finish, Add</i>	349.30	
			<i>For &gt;10 To 20, Deduct</i>	-105.44	
			<i>For &gt;20 To 40, Deduct</i>	-193.42	
			<i>For &gt;40, Deduct</i>	-404.30	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0413 EA 30' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,403.15 189.63 379.25 -113.52 -208.08 -435.13	753.45
26 56 13 00-0414 EA 33' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,496.45 194.77 389.54 -116.63 -213.78 -447.03	774.38
26 56 13 00-0415 EA 35' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,721.19 213.06 426.11 -124.99 -228.67 -478.65	795.31
26 56 13 00-0416 EA 37' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,836.19 220.37 440.74 -128.96 -235.88 -493.81	816.24
26 56 13 00-0417 EA 39' High, 8" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,058.65 238.43 476.86 -137.23 -250.62 -525.08	837.16
26 56 13 00-0418 EA 28' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,885.23 246.20 492.41 -134.06 -243.50 -511.63	711.59
26 56 13 00-0419 EA 30' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,108.39 260.15 520.30 -141.73 -257.45 -540.91	753.45
26 56 13 00-0420 EA 33' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,286.27 273.75 547.50 -148.22 -269.06 -565.50	774.38
26 56 13 00-0421 EA 35' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,556.73 296.61 593.22 -158.41 -287.16 -603.98	795.31
26 56 13 00-0422 EA 37' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,623.73 299.13 598.25 -160.46 -291.01 -611.94	816.24
26 56 13 00-0423 EA 39' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	4,893.05 321.87 643.74 -170.61 -309.03 -650.24	837.16
26 56 13 00-0424 EA 48' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,259.43 374.79 749.59 -212.70 -387.93 -813.34	1,255.75
26 56 13 00-0425 EA 50' High, 10" OD, 0.250", Round Tapered, Aluminum Area Light Pole, Anchor Base ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	6,401.16 388.97 777.93 -218.37 -397.85 -834.60	1,255.75
<b>26 56 13 00-0426 Round Tapered, Aluminum Area Light Poles, Hinged Anchor Base (26 56 13 00-0354)</b>		
26 56 13 00-0427 EA 8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,071.52 85.38 -35.33 -64.96 -135.61	251.15

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0428 EA 10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,179.24 88.98 -38.38 -70.83 -147.59	293.01
26 56 13 00-0429 EA 12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,288.11 92.76 -41.48 -76.77 -159.73	334.87
26 56 13 00-0430 EA 14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,399.25 96.87 -44.67 -82.88 -172.22	376.73
26 56 13 00-0431 EA 16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,509.25 100.81 -47.81 -88.90 -184.53	418.58
26 56 13 00-0432 EA 10' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,192.96 91.04 -38.93 -71.79 -149.64	293.01
26 56 13 00-0433 EA 12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,304.11 95.16 -42.12 -77.89 -162.13	334.87
26 56 13 00-0434 EA 14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,417.54 99.61 -45.40 -84.16 -174.96	376.73
26 56 13 00-0435 EA 16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,529.82 103.90 -48.64 -90.34 -187.62	418.58
26 56 13 00-0436 EA 18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,656.98 110.42 -52.47 -97.57 -202.50	460.44
26 56 13 00-0437 EA 20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,773.85 115.39 -55.89 -104.08 -215.85	502.30
26 56 13 00-0438 EA 12' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,348.69 101.84 -43.90 -81.01 -168.82	334.87
26 56 13 00-0439 EA 14' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,467.83 107.16 -47.41 -87.68 -182.50	376.73
26 56 13 00-0440 EA 16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,600.69 114.53 -51.47 -95.31 -198.25	418.58
26 56 13 00-0441 EA 18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,722.13 120.19 -55.07 -102.13 -212.28	460.44
26 56 13 00-0442 EA 20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,858.43 128.07 -59.27 -110.00 -228.53	502.30
26 56 13 00-0443 EA 16' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,665.84 124.30 -54.08 -99.87 -208.02	418.58
26 56 13 00-0444 EA 18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,810.14 133.39 -58.59 -108.29 -225.48	460.44



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0445	EA		20' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,929.30 138.71 -62.10 -114.96 -239.17	502.30
26 56 13 00-0446	EA		12' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,384.12 107.16 -45.32 -83.49 -174.13	334.87
26 56 13 00-0447	EA		14' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,521.55 115.22 -49.56 -91.44 -190.56	376.73
26 56 13 00-0448	EA		16' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,665.84 124.30 -54.08 -99.87 -208.02	418.58
26 56 13 00-0449	EA		18' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,796.43 131.33 -58.04 -107.33 -223.42	460.44
26 56 13 00-0450	EA		20' High, 5" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,935.01 139.56 -62.33 -115.36 -240.02	502.30
26 56 13 00-0451	EA		16' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,740.14 135.45 -57.05 -105.07 -219.16	418.58
26 56 13 00-0452	EA		18' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,893.58 145.91 -61.93 -114.13 -237.99	460.44
26 56 13 00-0453	EA		20' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Hinged Anchor Base ..... <i>For Bronze, Satin Or Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,018.45 152.08 -65.67 -121.20 -252.54	502.30
26 56 13 00-0454			<b>Round Tapered, Aluminum Area Light Poles, Direct Burial</b> (26 56 13 00-0354) Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0455	EA		8' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	756.91 33.83 67.67 -24.00 -44.61 -92.61	209.30
26 56 13 00-0456	EA		10' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	788.92 37.03 74.07 -25.28 -46.85 -97.41	209.30
26 56 13 00-0457	EA		12' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	857.06 39.66 79.32 -27.38 -50.79 -105.54	230.22
26 56 13 00-0458	EA		14' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	917.21 41.49 82.98 -29.15 -54.16 -112.47	251.15
26 56 13 00-0459	EA		16' High, 4" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	958.36 45.61 91.21 -30.80 -57.04 -118.64	251.15
26 56 13 00-0460	EA		12' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	887.93 42.75 85.50 -28.61 -52.95 -110.17	230.22

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0461	EA	14' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	961.79	251.15
		<i>For Bronze Or Satin Anodized Finish, Add</i>	45.95	
		<i>For Black Anodized Finish, Add</i>	91.90	
		<i>For &gt;10 To 20, Deduct</i>	-30.94	
		<i>For &gt;20 To 40, Deduct</i>	-57.28	
		<i>For &gt;40, Deduct</i>	-119.15	
26 56 13 00-0462	EA	16' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	984.65	251.15
		<i>For Bronze Or Satin Anodized Finish, Add</i>	48.24	
		<i>For Black Anodized Finish, Add</i>	96.47	
		<i>For &gt;10 To 20, Deduct</i>	-31.85	
		<i>For &gt;20 To 40, Deduct</i>	-58.88	
		<i>For &gt;40, Deduct</i>	-122.58	
26 56 13 00-0463	EA	18' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,063.08	272.08
		<i>For Bronze Or Satin Anodized Finish, Add</i>	51.89	
		<i>For Black Anodized Finish, Add</i>	103.79	
		<i>For &gt;10 To 20, Deduct</i>	-34.36	
		<i>For &gt;20 To 40, Deduct</i>	-63.53	
		<i>For &gt;40, Deduct</i>	-132.25	
26 56 13 00-0464	EA	20' High, 5" OD, 0.125", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,136.95	293.01
		<i>For Bronze Or Satin Anodized Finish, Add</i>	55.09	
		<i>For Black Anodized Finish, Add</i>	110.19	
		<i>For &gt;10 To 20, Deduct</i>	-36.69	
		<i>For &gt;20 To 40, Deduct</i>	-67.87	
		<i>For &gt;40, Deduct</i>	-141.24	
26 56 13 00-0465	EA	16' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,050.94	251.15
		<i>For Bronze Or Satin Anodized Finish, Add</i>	54.86	
		<i>For Black Anodized Finish, Add</i>	109.73	
		<i>For &gt;10 To 20, Deduct</i>	-34.50	
		<i>For &gt;20 To 40, Deduct</i>	-63.52	
		<i>For &gt;40, Deduct</i>	-132.53	
26 56 13 00-0466	EA	18' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,136.23	272.08
		<i>For Bronze Or Satin Anodized Finish, Add</i>	59.21	
		<i>For Black Anodized Finish, Add</i>	118.42	
		<i>For &gt;10 To 20, Deduct</i>	-37.29	
		<i>For &gt;20 To 40, Deduct</i>	-68.65	
		<i>For &gt;40, Deduct</i>	-143.23	
26 56 13 00-0467	EA	20' High, 5" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,215.82	293.01
		<i>For Bronze Or Satin Anodized Finish, Add</i>	62.98	
		<i>For Black Anodized Finish, Add</i>	125.96	
		<i>For &gt;10 To 20, Deduct</i>	-39.84	
		<i>For &gt;20 To 40, Deduct</i>	-73.39	
		<i>For &gt;40, Deduct</i>	-153.07	
26 56 13 00-0468	EA	18' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,229.96	272.08
		<i>For Bronze Or Satin Anodized Finish, Add</i>	68.58	
		<i>For Black Anodized Finish, Add</i>	137.16	
		<i>For &gt;10 To 20, Deduct</i>	-41.04	
		<i>For &gt;20 To 40, Deduct</i>	-75.21	
		<i>For &gt;40, Deduct</i>	-157.29	
26 56 13 00-0469	EA	25' High, 6" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,569.29	334.87
		<i>For Bronze Or Satin Anodized Finish, Add</i>	89.96	
		<i>For Black Anodized Finish, Add</i>	179.91	
		<i>For &gt;10 To 20, Deduct</i>	-52.73	
		<i>For &gt;20 To 40, Deduct</i>	-96.46	
		<i>For &gt;40, Deduct</i>	-201.91	
26 56 13 00-0470	EA	25' High, 6" OD, 0.188", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,698.45	334.87
		<i>For Bronze Or Satin Anodized Finish, Add</i>	102.87	
		<i>For Black Anodized Finish, Add</i>	205.74	
		<i>For &gt;10 To 20, Deduct</i>	-57.89	
		<i>For &gt;20 To 40, Deduct</i>	-105.50	
		<i>For &gt;40, Deduct</i>	-221.28	
26 56 13 00-0471	EA	30' High, 7" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	1,893.03	376.73
		<i>For Bronze Or Satin Anodized Finish, Add</i>	113.96	
		<i>For Black Anodized Finish, Add</i>	227.92	
		<i>For &gt;10 To 20, Deduct</i>	-64.42	
		<i>For &gt;20 To 40, Deduct</i>	-117.44	
		<i>For &gt;40, Deduct</i>	-246.28	
26 56 13 00-0472	EA	30' High, 8" OD, 0.156", Round Tapered, Aluminum Area Light Pole, Direct Burial	2,033.62	376.73
		<i>For Bronze Or Satin Anodized Finish, Add</i>	128.02	
		<i>For Black Anodized Finish, Add</i>	256.03	
		<i>For &gt;10 To 20, Deduct</i>	-70.04	
		<i>For &gt;20 To 40, Deduct</i>	-127.28	
		<i>For &gt;40, Deduct</i>	-267.37	
26 56 13 00-0473		Square Straight, Aluminum Area Light Poles <small>(26 56 13 00-0294)</small>		
26 56 13 00-0474		Square Straight, Aluminum Area Light Poles, Anchor Base <small>(26 56 13 00-0473)</small>		
26 56 13 00-0475	EA	8' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base	974.36	251.15
		<i>For Bronze Or Satin Anodized Finish, Add</i>	47.21	
		<i>For Black Anodized Finish, Add</i>	94.41	
		<i>For &gt;10 To 20, Deduct</i>	-31.44	
		<i>For &gt;20 To 40, Deduct</i>	-58.16	
		<i>For &gt;40, Deduct</i>	-121.04	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0476 EA 10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,082.09	293.01
For Bronze Or Satin Anodized Finish, Add	49.61	
For Black Anodized Finish, Add	99.21	
For >10 To 20, Deduct	-34.49	
For >20 To 40, Deduct	-64.03	
For >40, Deduct	-133.01	
26 56 13 00-0477 EA 12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,198.95	334.87
For Bronze Or Satin Anodized Finish, Add	52.92	
For Black Anodized Finish, Add	105.84	
For >10 To 20, Deduct	-37.91	
For >20 To 40, Deduct	-70.53	
For >40, Deduct	-146.36	
26 56 13 00-0478 EA 14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,314.67	376.73
For Bronze Or Satin Anodized Finish, Add	56.12	
For Black Anodized Finish, Add	112.24	
For >10 To 20, Deduct	-41.29	
For >20 To 40, Deduct	-76.96	
For >40, Deduct	-159.53	
26 56 13 00-0479 EA 15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,377.10	397.66
For Bronze Or Satin Anodized Finish, Add	58.18	
For Black Anodized Finish, Add	116.36	
For >10 To 20, Deduct	-43.15	
For >20 To 40, Deduct	-80.49	
For >40, Deduct	-166.80	
26 56 13 00-0480 EA 16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,439.53	418.58
For Bronze Or Satin Anodized Finish, Add	60.24	
For Black Anodized Finish, Add	120.47	
For >10 To 20, Deduct	-45.02	
For >20 To 40, Deduct	-84.02	
For >40, Deduct	-174.07	
26 56 13 00-0481 EA 18' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,562.11	460.44
For Bronze Or Satin Anodized Finish, Add	64.12	
For Black Anodized Finish, Add	128.25	
For >10 To 20, Deduct	-48.67	
For >20 To 40, Deduct	-90.93	
For >40, Deduct	-188.27	
26 56 13 00-0482 EA 20' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,694.98	502.30
For Bronze Or Satin Anodized Finish, Add	69.04	
For Black Anodized Finish, Add	138.08	
For >10 To 20, Deduct	-52.73	
For >20 To 40, Deduct	-98.56	
For >40, Deduct	-204.02	
26 56 13 00-0483 EA 16' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,518.39	418.58
For Bronze Or Satin Anodized Finish, Add	68.12	
For Black Anodized Finish, Add	136.25	
For >10 To 20, Deduct	-48.18	
For >20 To 40, Deduct	-89.54	
For >40, Deduct	-185.90	
26 56 13 00-0484 EA 18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,643.26	460.44
For Bronze Or Satin Anodized Finish, Add	72.24	
For Black Anodized Finish, Add	144.48	
For >10 To 20, Deduct	-51.92	
For >20 To 40, Deduct	-96.61	
For >40, Deduct	-200.45	
26 56 13 00-0485 EA 20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,782.99	502.30
For Bronze Or Satin Anodized Finish, Add	77.84	
For Black Anodized Finish, Add	155.68	
For >10 To 20, Deduct	-56.25	
For >20 To 40, Deduct	-104.72	
For >40, Deduct	-217.22	
26 56 13 00-0486 EA 15' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,720.01	397.66
For Bronze Or Satin Anodized Finish, Add	92.47	
For Black Anodized Finish, Add	184.94	
For >10 To 20, Deduct	-56.87	
For >20 To 40, Deduct	-104.49	
For >40, Deduct	-218.24	
26 56 13 00-0487 EA 20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base .....	2,111.03	502.30
For Bronze Or Satin Anodized Finish, Add	110.64	
For Black Anodized Finish, Add	221.29	
For >10 To 20, Deduct	-69.37	
For >20 To 40, Deduct	-127.68	
For >40, Deduct	-266.42	
26 56 13 00-0488 EA 25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Anchor Base .....	2,588.78	669.74
For Bronze Or Satin Anodized Finish, Add	124.93	
For Black Anodized Finish, Add	249.86	
For >10 To 20, Deduct	-83.46	
For >20 To 40, Deduct	-154.43	
For >40, Deduct	-321.34	
26 56 13 00-0489 EA 20' High, 4" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base .....	1,853.86	502.30
For Bronze Or Satin Anodized Finish, Add	84.93	
For Black Anodized Finish, Add	169.85	
For >10 To 20, Deduct	-59.09	
For >20 To 40, Deduct	-109.68	
For >40, Deduct	-227.85	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0490	EA		20' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base .....	2,249.34	502.30
			<i>For Bronze Or Satin Anodized Finish, Add</i>	124.47	
			<i>For Black Anodized Finish, Add</i>	248.95	
			<i>For &gt;10 To 20, Deduct</i>	-74.90	
			<i>For &gt;20 To 40, Deduct</i>	-137.36	
			<i>For &gt;40, Deduct</i>	-287.17	
26 56 13 00-0491	EA		25' High, 5" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base .....	2,714.51	669.74
			<i>For Bronze Or Satin Anodized Finish, Add</i>	137.50	
			<i>For Black Anodized Finish, Add</i>	275.01	
			<i>For &gt;10 To 20, Deduct</i>	-88.49	
			<i>For &gt;20 To 40, Deduct</i>	-163.23	
			<i>For &gt;40, Deduct</i>	-340.20	
26 56 13 00-0492	EA		20' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base .....	2,466.51	502.30
			<i>For Bronze Or Satin Anodized Finish, Add</i>	146.19	
			<i>For Black Anodized Finish, Add</i>	292.38	
			<i>For &gt;10 To 20, Deduct</i>	-83.59	
			<i>For &gt;20 To 40, Deduct</i>	-152.56	
			<i>For &gt;40, Deduct</i>	-319.75	
26 56 13 00-0493	EA		25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base .....	2,997.98	669.74
			<i>For Bronze Or Satin Anodized Finish, Add</i>	165.85	
			<i>For Black Anodized Finish, Add</i>	331.70	
			<i>For &gt;10 To 20, Deduct</i>	-99.83	
			<i>For &gt;20 To 40, Deduct</i>	-183.07	
			<i>For &gt;40, Deduct</i>	-382.72	
26 56 13 00-0494	EA		30' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Anchor Base .....	3,460.30	753.45
			<i>For Bronze Or Satin Anodized Finish, Add</i>	195.34	
			<i>For Black Anodized Finish, Add</i>	390.68	
			<i>For &gt;10 To 20, Deduct</i>	-115.81	
			<i>For &gt;20 To 40, Deduct</i>	-212.08	
			<i>For &gt;40, Deduct</i>	-443.70	
26 56 13 00-0495			<b>Square Straight, Aluminum Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0473)</small>		
			Note: Includes rubberized undercoating on embedded portion.		
26 56 13 00-0496	EA		10' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....	868.93	209.30
			<i>For Bronze Or Satin Anodized Finish, Add</i>	45.04	
			<i>For Black Anodized Finish, Add</i>	90.07	
			<i>For &gt;10 To 20, Deduct</i>	-28.48	
			<i>For &gt;20 To 40, Deduct</i>	-52.45	
			<i>For &gt;40, Deduct</i>	-109.41	
26 56 13 00-0497	EA		12' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....	969.08	230.22
			<i>For Bronze Or Satin Anodized Finish, Add</i>	50.86	
			<i>For Black Anodized Finish, Add</i>	101.73	
			<i>For &gt;10 To 20, Deduct</i>	-31.86	
			<i>For &gt;20 To 40, Deduct</i>	-58.63	
			<i>For &gt;40, Deduct</i>	-122.34	
26 56 13 00-0498	EA		14' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....	1,034.94	251.15
			<i>For Bronze Or Satin Anodized Finish, Add</i>	53.26	
			<i>For Black Anodized Finish, Add</i>	106.53	
			<i>For &gt;10 To 20, Deduct</i>	-33.86	
			<i>For &gt;20 To 40, Deduct</i>	-62.40	
			<i>For &gt;40, Deduct</i>	-130.13	
26 56 13 00-0499	EA		15' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....	1,063.52	251.15
			<i>For Bronze Or Satin Anodized Finish, Add</i>	56.12	
			<i>For Black Anodized Finish, Add</i>	112.24	
			<i>For &gt;10 To 20, Deduct</i>	-35.01	
			<i>For &gt;20 To 40, Deduct</i>	-64.40	
			<i>For &gt;40, Deduct</i>	-134.41	
26 56 13 00-0500	EA		16' High, 4" OD, 0.125", Square Straight, Aluminum Area Light Pole, Direct Burial .....	1,098.95	251.15
			<i>For Bronze Or Satin Anodized Finish, Add</i>	59.67	
			<i>For Black Anodized Finish, Add</i>	119.33	
			<i>For &gt;10 To 20, Deduct</i>	-36.42	
			<i>For &gt;20 To 40, Deduct</i>	-66.88	
			<i>For &gt;40, Deduct</i>	-139.73	
26 56 13 00-0501	EA		18' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial .....	1,261.96	272.08
			<i>For Bronze Or Satin Anodized Finish, Add</i>	71.78	
			<i>For Black Anodized Finish, Add</i>	143.56	
			<i>For &gt;10 To 20, Deduct</i>	-42.32	
			<i>For &gt;20 To 40, Deduct</i>	-77.45	
			<i>For &gt;40, Deduct</i>	-162.09	
26 56 13 00-0502	EA		20' High, 4" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial .....	1,352.98	293.01
			<i>For Bronze Or Satin Anodized Finish, Add</i>	76.70	
			<i>For Black Anodized Finish, Add</i>	153.39	
			<i>For &gt;10 To 20, Deduct</i>	-45.33	
			<i>For &gt;20 To 40, Deduct</i>	-82.99	
			<i>For &gt;40, Deduct</i>	-173.65	
26 56 13 00-0503	EA		20' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial .....	1,532.43	293.01
			<i>For Bronze Or Satin Anodized Finish, Add</i>	94.64	
			<i>For Black Anodized Finish, Add</i>	189.28	
			<i>For &gt;10 To 20, Deduct</i>	-52.51	
			<i>For &gt;20 To 40, Deduct</i>	-95.55	
			<i>For &gt;40, Deduct</i>	-200.56	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0504	EA		25' High, 5" OD, 0.188", Square Straight, Aluminum Area Light Pole, Direct Burial ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,760.17 109.04 218.09 -60.36 -109.82 -230.54	334.87
26 56 13 00-0505	EA		25' High, 6" OD, 0.250", Square Straight, Aluminum Area Light Pole, Direct Burial ..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,161.37 149.16 298.33 -76.41 -137.90 -290.72	334.87
<b>26 56 13 00-0506</b>			<b>Factory Accessories For Aluminum Area Light Poles</b> <small>(26 56 13 00-0294)</small>		
26 56 13 00-0507	EA		1/2", 3/4" Or 1" Factory Threaded Pipe Coupling Or Nipple For Aluminum Area Light Poles.....	91.25	
26 56 13 00-0508	EA		Extra Handhole For Aluminum Area Light Poles .....	42.60	
26 56 13 00-0509	EA		Vibration Dampener For Aluminum Area Light Poles .....	138.04	
<b>26 56 13 00-0510</b>			<b>Fiberglass Area Light Poles</b> <small>(26 56 13 00-0177)</small> Note: Includes UV resistant textured weave finish, anchor bolts, base cover, reinforced handhole with cover and grounding provisions and tenon top.		
<b>26 56 13 00-0511</b>			<b>Round Tapered, Fiberglass Area Light Poles</b> <small>(26 56 13 00-0510)</small>		
<b>26 56 13 00-0512</b>			<b>Round Tapered, Fiberglass Area Light Poles, Anchor Base</b> <small>(26 56 13 00-0511)</small>		
26 56 13 00-0513	EA		10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,435.72 -48.64 -88.78 -186.06	293.01
26 56 13 00-0514	EA		12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,570.02 -52.75 -96.51 -202.02	334.87
26 56 13 00-0515	EA		14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,705.75 -56.93 -104.33 -218.19	376.73
26 56 13 00-0516	EA		16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,840.04 -61.04 -112.06 -234.15	418.58
26 56 13 00-0517	EA		18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,000.35 -66.20 -121.61 -254.01	460.44
26 56 13 00-0518	EA		20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,137.53 -70.43 -129.54 -270.40	502.30
26 56 13 00-0519	EA		22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,356.99 -76.70 -141.55 -294.95	586.02
26 56 13 00-0520	EA		24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,575.00 -82.91 -153.46 -319.28	669.74
26 56 13 00-0521	EA		26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,692.06 -87.59 -161.65 -336.84	669.74
26 56 13 00-0522	EA		28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	2,878.38 -93.79 -173.02 -360.60	711.59
26 56 13 00-0523	EA		30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	3,064.69 -99.98 -184.39 -384.36	753.45
26 56 13 00-0524	EA		10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,568.67 -53.96 -98.09 -206.00	293.01
26 56 13 00-0525	EA		12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,676.95 -57.03 -103.99 -218.06	334.87
26 56 13 00-0526	EA		14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base..... <i>For &gt;10 To 20, Deduct</i> <i>For &gt;20 To 40, Deduct</i> <i>For &gt;40, Deduct</i>	1,786.68 -60.17 -110.00 -230.33	376.73

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0527	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,899.29	418.58
			<i>For &gt;10 To 20, Deduct</i>	-63.41	
			<i>For &gt;20 To 40, Deduct</i>	-116.21	
			<i>For &gt;40, Deduct</i>	-243.04	
26 56	13 00-0528	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,019.13	460.44
			<i>For &gt;10 To 20, Deduct</i>	-66.95	
			<i>For &gt;20 To 40, Deduct</i>	-122.92	
			<i>For &gt;40, Deduct</i>	-256.83	
26 56	13 00-0529	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,137.53	502.30
			<i>For &gt;10 To 20, Deduct</i>	-70.43	
			<i>For &gt;20 To 40, Deduct</i>	-129.54	
			<i>For &gt;40, Deduct</i>	-270.40	
26 56	13 00-0530	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,339.65	586.02
			<i>For &gt;10 To 20, Deduct</i>	-76.01	
			<i>For &gt;20 To 40, Deduct</i>	-140.33	
			<i>For &gt;40, Deduct</i>	-292.35	
26 56	13 00-0531	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,575.00	669.74
			<i>For &gt;10 To 20, Deduct</i>	-82.91	
			<i>For &gt;20 To 40, Deduct</i>	-153.46	
			<i>For &gt;40, Deduct</i>	-319.28	
26 56	13 00-0532	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,624.14	669.74
			<i>For &gt;10 To 20, Deduct</i>	-84.87	
			<i>For &gt;20 To 40, Deduct</i>	-156.90	
			<i>For &gt;40, Deduct</i>	-326.65	
26 56	13 00-0533	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,758.43	711.59
			<i>For &gt;10 To 20, Deduct</i>	-88.99	
			<i>For &gt;20 To 40, Deduct</i>	-164.63	
			<i>For &gt;40, Deduct</i>	-342.61	
26 56	13 00-0534	EA	30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,892.72	753.45
			<i>For &gt;10 To 20, Deduct</i>	-93.11	
			<i>For &gt;20 To 40, Deduct</i>	-172.35	
			<i>For &gt;40, Deduct</i>	-358.56	
26 56	13 00-0535	EA	10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,763.75	293.01
			<i>For &gt;10 To 20, Deduct</i>	-61.76	
			<i>For &gt;20 To 40, Deduct</i>	-111.74	
			<i>For &gt;40, Deduct</i>	-235.26	
26 56	13 00-0536	EA	12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	1,892.27	334.87
			<i>For &gt;10 To 20, Deduct</i>	-65.64	
			<i>For &gt;20 To 40, Deduct</i>	-119.06	
			<i>For &gt;40, Deduct</i>	-250.35	
26 56	13 00-0537	EA	14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,020.78	376.73
			<i>For &gt;10 To 20, Deduct</i>	-69.53	
			<i>For &gt;20 To 40, Deduct</i>	-126.39	
			<i>For &gt;40, Deduct</i>	-265.44	
26 56	13 00-0538	EA	16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,150.73	418.58
			<i>For &gt;10 To 20, Deduct</i>	-73.47	
			<i>For &gt;20 To 40, Deduct</i>	-133.81	
			<i>For &gt;40, Deduct</i>	-280.75	
26 56	13 00-0539	EA	18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,286.47	460.44
			<i>For &gt;10 To 20, Deduct</i>	-77.65	
			<i>For &gt;20 To 40, Deduct</i>	-141.64	
			<i>For &gt;40, Deduct</i>	-296.93	
26 56	13 00-0540	EA	20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,430.88	502.30
			<i>For &gt;10 To 20, Deduct</i>	-82.17	
			<i>For &gt;20 To 40, Deduct</i>	-150.07	
			<i>For &gt;40, Deduct</i>	-314.40	
26 56	13 00-0541	EA	22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,672.01	586.02
			<i>For &gt;10 To 20, Deduct</i>	-89.30	
			<i>For &gt;20 To 40, Deduct</i>	-163.60	
			<i>For &gt;40, Deduct</i>	-342.20	
26 56	13 00-0542	EA	24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,914.60	669.74
			<i>For &gt;10 To 20, Deduct</i>	-96.49	
			<i>For &gt;20 To 40, Deduct</i>	-177.23	
			<i>For &gt;40, Deduct</i>	-370.22	
26 56	13 00-0543	EA	26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	2,989.74	669.74
			<i>For &gt;10 To 20, Deduct</i>	-99.50	
			<i>For &gt;20 To 40, Deduct</i>	-182.49	
			<i>For &gt;40, Deduct</i>	-381.49	
26 56	13 00-0544	EA	28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,191.96	711.59
			<i>For &gt;10 To 20, Deduct</i>	-106.33	
			<i>For &gt;20 To 40, Deduct</i>	-194.97	
			<i>For &gt;40, Deduct</i>	-407.63	
26 56	13 00-0545	EA	30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,360.92	753.45
			<i>For &gt;10 To 20, Deduct</i>	-111.83	
			<i>For &gt;20 To 40, Deduct</i>	-205.13	
			<i>For &gt;40, Deduct</i>	-428.79	
26 56	13 00-0546	EA	32' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,488.04	774.38
			<i>For &gt;10 To 20, Deduct</i>	-116.29	
			<i>For &gt;20 To 40, Deduct</i>	-213.19	
			<i>For &gt;40, Deduct</i>	-445.77	
26 56	13 00-0547	EA	34' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Anchor Base.....	3,615.16	795.31
			<i>For &gt;10 To 20, Deduct</i>	-120.75	
			<i>For &gt;20 To 40, Deduct</i>	-221.25	
			<i>For &gt;40, Deduct</i>	-462.74	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	13 00-0548		<b>Round Tapered, Fiberglass Area Light Poles, Direct Burial</b> <small>(26 56 13 00-0511)</small>		
26 56	13 00-0549	EA	10' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	904.12	209.30
			<i>For &gt;10 To 20, Deduct</i>	-29.89	
			<i>For &gt;20 To 40, Deduct</i>	-54.92	
			<i>For &gt;40, Deduct</i>	-114.69	
26 56	13 00-0550	EA	12' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	973.44	230.22
			<i>For &gt;10 To 20, Deduct</i>	-32.03	
			<i>For &gt;20 To 40, Deduct</i>	-58.93	
			<i>For &gt;40, Deduct</i>	-122.99	
26 56	13 00-0551	EA	14' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,041.31	251.15
			<i>For &gt;10 To 20, Deduct</i>	-34.12	
			<i>For &gt;20 To 40, Deduct</i>	-62.85	
			<i>For &gt;40, Deduct</i>	-131.08	
26 56	13 00-0552	EA	16' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,065.88	251.15
			<i>For &gt;10 To 20, Deduct</i>	-35.10	
			<i>For &gt;20 To 40, Deduct</i>	-64.57	
			<i>For &gt;40, Deduct</i>	-134.77	
26 56	13 00-0553	EA	18' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,148.19	272.08
			<i>For &gt;10 To 20, Deduct</i>	-37.77	
			<i>For &gt;20 To 40, Deduct</i>	-69.49	
			<i>For &gt;40, Deduct</i>	-145.02	
26 56	13 00-0554	EA	20' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,218.96	293.01
			<i>For &gt;10 To 20, Deduct</i>	-39.97	
			<i>For &gt;20 To 40, Deduct</i>	-73.61	
			<i>For &gt;40, Deduct</i>	-153.54	
26 56	13 00-0555	EA	22' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,294.06	313.93
			<i>For &gt;10 To 20, Deduct</i>	-42.34	
			<i>For &gt;20 To 40, Deduct</i>	-78.03	
			<i>For &gt;40, Deduct</i>	-162.72	
26 56	13 00-0556	EA	24' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,376.38	334.87
			<i>For &gt;10 To 20, Deduct</i>	-45.01	
			<i>For &gt;20 To 40, Deduct</i>	-82.95	
			<i>For &gt;40, Deduct</i>	-172.97	
26 56	13 00-0557	EA	26' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,515.11	334.87
			<i>For &gt;10 To 20, Deduct</i>	-50.56	
			<i>For &gt;20 To 40, Deduct</i>	-92.66	
			<i>For &gt;40, Deduct</i>	-193.78	
26 56	13 00-0558	EA	28' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,695.68	355.79
			<i>For &gt;10 To 20, Deduct</i>	-57.15	
			<i>For &gt;20 To 40, Deduct</i>	-104.47	
			<i>For &gt;40, Deduct</i>	-218.77	
26 56	13 00-0559	EA	30' High, 3.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,876.27	376.73
			<i>For &gt;10 To 20, Deduct</i>	-63.75	
			<i>For &gt;20 To 40, Deduct</i>	-116.27	
			<i>For &gt;40, Deduct</i>	-243.77	
26 56	13 00-0560	EA	10' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,037.07	209.30
			<i>For &gt;10 To 20, Deduct</i>	-35.20	
			<i>For &gt;20 To 40, Deduct</i>	-64.22	
			<i>For &gt;40, Deduct</i>	-134.63	
26 56	13 00-0561	EA	12' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,113.61	230.22
			<i>For &gt;10 To 20, Deduct</i>	-37.64	
			<i>For &gt;20 To 40, Deduct</i>	-68.74	
			<i>For &gt;40, Deduct</i>	-144.02	
26 56	13 00-0562	EA	14' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,190.15	251.15
			<i>For &gt;10 To 20, Deduct</i>	-40.07	
			<i>For &gt;20 To 40, Deduct</i>	-73.26	
			<i>For &gt;40, Deduct</i>	-153.41	
26 56	13 00-0563	EA	16' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,226.28	251.15
			<i>For &gt;10 To 20, Deduct</i>	-41.52	
			<i>For &gt;20 To 40, Deduct</i>	-75.79	
			<i>For &gt;40, Deduct</i>	-158.83	
26 56	13 00-0564	EA	18' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,302.81	272.08
			<i>For &gt;10 To 20, Deduct</i>	-43.95	
			<i>For &gt;20 To 40, Deduct</i>	-80.31	
			<i>For &gt;40, Deduct</i>	-168.21	
26 56	13 00-0565	EA	20' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,379.36	293.01
			<i>For &gt;10 To 20, Deduct</i>	-46.38	
			<i>For &gt;20 To 40, Deduct</i>	-84.83	
			<i>For &gt;40, Deduct</i>	-177.60	
26 56	13 00-0566	EA	22' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,455.91	313.93
			<i>For &gt;10 To 20, Deduct</i>	-48.82	
			<i>For &gt;20 To 40, Deduct</i>	-89.36	
			<i>For &gt;40, Deduct</i>	-186.99	
26 56	13 00-0567	EA	24' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,565.68	334.87
			<i>For &gt;10 To 20, Deduct</i>	-52.58	
			<i>For &gt;20 To 40, Deduct</i>	-96.20	
			<i>For &gt;40, Deduct</i>	-201.37	
26 56	13 00-0568	EA	26' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,700.07	334.87
			<i>For &gt;10 To 20, Deduct</i>	-57.96	
			<i>For &gt;20 To 40, Deduct</i>	-105.61	
			<i>For &gt;40, Deduct</i>	-221.52	
26 56	13 00-0569	EA	28' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,877.76	355.79
			<i>For &gt;10 To 20, Deduct</i>	-64.44	
			<i>For &gt;20 To 40, Deduct</i>	-117.21	
			<i>For &gt;40, Deduct</i>	-246.08	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0570 EA 30' High, 4.5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,054.01	376.73
For>10 To 20, Deduct	-70.86	
For>20 To 40, Deduct	-128.71	
For>40, Deduct	-270.43	
26 56 13 00-0571 EA 10' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,154.12	209.30
For>10 To 20, Deduct	-39.89	
For>20 To 40, Deduct	-72.42	
For>40, Deduct	-152.19	
26 56 13 00-0572 EA 12' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,221.99	230.22
For>10 To 20, Deduct	-41.97	
For>20 To 40, Deduct	-76.33	
For>40, Deduct	-160.28	
26 56 13 00-0573 EA 14' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,288.42	251.15
For>10 To 20, Deduct	-44.00	
For>20 To 40, Deduct	-80.14	
For>40, Deduct	-168.15	
26 56 13 00-0574 EA 16' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,312.98	251.15
For>10 To 20, Deduct	-44.98	
For>20 To 40, Deduct	-81.86	
For>40, Deduct	-171.83	
26 56 13 00-0575 EA 18' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,379.40	272.08
For>10 To 20, Deduct	-47.01	
For>20 To 40, Deduct	-85.68	
For>40, Deduct	-179.70	
26 56 13 00-0576 EA 20' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,447.28	293.01
For>10 To 20, Deduct	-49.10	
For>20 To 40, Deduct	-89.59	
For>40, Deduct	-187.79	
26 56 13 00-0577 EA 22' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,564.29	313.93
For>10 To 20, Deduct	-53.15	
For>20 To 40, Deduct	-96.94	
For>40, Deduct	-203.25	
26 56 13 00-0578 EA 24' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,698.63	334.87
For>10 To 20, Deduct	-57.90	
For>20 To 40, Deduct	-105.51	
For>40, Deduct	-221.31	
26 56 13 00-0579 EA 26' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,782.44	334.87
For>10 To 20, Deduct	-61.25	
For>20 To 40, Deduct	-111.38	
For>40, Deduct	-233.88	
26 56 13 00-0580 EA 28' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	1,909.55	355.79
For>10 To 20, Deduct	-65.71	
For>20 To 40, Deduct	-119.44	
For>40, Deduct	-250.85	
26 56 13 00-0581 EA 30' High, 5" Top OD, Round Tapered, Fiberglass Area Light Pole, Direct Burial.....	2,036.67	376.73
For>10 To 20, Deduct	-70.17	
For>20 To 40, Deduct	-127.50	
For>40, Deduct	-267.83	
<b>26 56 13 00-0582 Factory Accessories For Fiberglass Area Light Poles (26 56 13 00-0510)</b>		
26 56 13 00-0583 EA Open Or Capped Top For Fiberglass Area Light Poles.....	51.23	
26 56 13 00-0584 EA Factory Side Drilling Up To Four Fixtures On Fiberglass Area Light Poles.....	51.23	
26 56 13 00-0585 EA Smooth Shaft Finish For Fiberglass Area Light Poles.....	97.21	
26 56 13 00-0586 EA Vibration Dampener For Fiberglass Area Light Poles.....	128.74	
<b>26 56 13 00-0587 Concrete Area Light Poles (26 56 13 00-0177)</b>		
<b>26 56 13 00-0588 Octagonal Tapered, Spun Concrete Area Light Poles, Anchor Base (26 56 13 00-0587)</b>		
26 56 13 00-0589 EA 28' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	2,945.26	711.59
26 56 13 00-0590 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,105.08	753.45
26 56 13 00-0591 EA 33' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	3,221.28	774.38
26 56 13 00-0592 EA 36' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,013.19	795.31
26 56 13 00-0593 EA 38' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	4,460.28	837.16
26 56 13 00-0594 EA 43' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	5,518.16	1,088.32
26 56 13 00-0595 EA 47' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	6,609.05	1,339.47
26 56 13 00-0596 EA 27' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	6,434.39	711.59
Note: Polished brown with acrylic coating finish.		
26 56 13 00-0597 EA 30' High, Octagonal Tapered, Spun Concrete Area Light Pole, Anchor Base.....	7,429.24	753.45
Note: Polished brown with acrylic coating finish.		
26 56 13 00-0598 EA Pole Adapter Base Plate, Galvanized Steel, 1" Thick For Adapting Up To 40'.....	770.68	251.15
26 56 13 00-0599 EA 13' High Concrete Octagonal Area Light Pole, Pink With Acrylic Coating, Finish Design.....	3,857.36	502.14
26 56 13 00-0600 EA Pole Base Cover For All Octagon Poles.....	299.45	102.47
26 56 13 00-0601 EA Pole Arms 24" Long, Square, 250 Watt Fixture, Dark, Architectural Bronze.....	612.97	204.94
<b>26 56 13 00-0602 Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)</b>		
Note: Round or square.		
26 56 13 00-0603 EA 13' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,184.02	334.87
26 56 13 00-0604 EA 16' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,595.98	418.58
26 56 13 00-0605 EA 18' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	3,968.90	502.30
26 56 13 00-0606 EA 30' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	5,527.63	753.45
26 56 13 00-0607 EA 35' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	6,377.65	795.31



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0608 EA 40' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	7,296.91	837.16
26 56 13 00-0609 EA 45' High, Tapered, Spun Concrete Area Light Pole, Direct Burial.....	8,453.32	1,088.32
<b>26 56 13 00-0610 Round Tapered, Spun Concrete Area Light Poles, Direct Burial (26 56 13 00-0587)</b>		
26 56 13 00-0611 EA 60' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 60 9-22) .....	19,115.29	1,883.63
26 56 13 00-0612 EA 70' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C2 70 9-24) .....	22,740.14	2,298.77
26 56 13 00-0613 EA 80' High, Round Tapered, Spun Concrete Area Light Pole, Direct Burial (Lithonia SPRTC C1 80 9-26) .....	27,022.38	3,105.37
<b>26 56 13 00-0614 Treated Wood Area Light Poles (26 56 13 00-0177)</b> See CSI section 26 05 46 00-0001 for wood poles.		
<b>26 56 13 00-0615 Cast Iron Decorative Light Posts (26 56 13 00-0177)</b>		
<b>26 56 13 00-0616 Round Tapered, Cast Iron Decorative Light Post, Anchor Base (26 56 13 00-0615)</b> Note: As manufactured by Hadco and King Luminaries or an approved equal.		
26 56 13 00-0617 EA 10' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	1,626.22	209.30
26 56 13 00-0618 EA 12' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	1,721.92	241.10
26 56 13 00-0619 EA 14' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	1,863.74	251.15
26 56 13 00-0620 EA 16' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	2,284.61	293.01
26 56 13 00-0621 EA 18' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	2,660.14	318.13
26 56 13 00-0622 EA 20' High, Round Tapered, Cast Iron Decorative Light Post, Anchor Base .....	3,053.44	343.24
<b>26 56 13 00-0623 Landscape Light Poles (26 56 13 00-0001)</b> Note: Excludes lighting fixtures.		
<b>26 56 13 00-0624 Aluminum Landscape Light Poles (26 56 13 00-0623)</b> Note: Includes painted finish.		
<b>26 56 13 00-0625 Round Straight, Aluminum Landscape Light Poles (26 56 13 00-0624)</b>		
<b>26 56 13 00-0626 Round Straight, Aluminum Landscape Light Poles, Anchor Base (26 56 13 00-0625)</b>		
26 56 13 00-0627 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base .....	604.02	251.15
26 56 13 00-0628 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Anchor Base .....	991.66	334.87
<b>26 56 13 00-0629 Round Straight, Aluminum Landscape Light Poles, Direct Burial (26 56 13 00-0625)</b>		
26 56 13 00-0630 EA 7' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial .....	556.15	251.15
26 56 13 00-0631 EA 12' High, 3" OD, Round Straight, Aluminum Landscape Light Pole, Direct Burial .....	943.79	334.87
<b>26 56 13 00-0632 Steel Landscape Light Poles (26 56 13 00-0623)</b> Note: Includes painted finish.		
<b>26 56 13 00-0633 Round Straight, Steel Landscape Light Poles (26 56 13 00-0632)</b>		
<b>26 56 13 00-0634 Round Straight, Steel Landscape Light Poles, Anchor Base (26 56 13 00-0633)</b>		
26 56 13 00-0635 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Anchor Base .....	658.08	251.15
<b>26 56 13 00-0636 Round Straight, Steel Landscape Light Poles, Direct Burial (26 56 13 00-0633)</b>		
26 56 13 00-0637 EA 6'-8" High, 3" OD, Round Straight, Steel Landscape Light Pole, Direct Burial .....	623.19	251.15
<b>26 56 13 00-0638 Light Pole Brackets And Arms (26 56 13 00-0001)</b>		
<b>26 56 13 00-0639 Light Pole Brackets (26 56 13 00-0638)</b>		
<b>26 56 13 00-0640 Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0639)</b>		
<b>26 56 13 00-0641 Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)</b>		
<b>26 56 13 00-0642 Steel, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641)</b> Note: Includes powdercoat finish.		
26 56 13 00-0643 EA Two Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	725.19	50.23
For Galvanized Finish, Add	62.47	
26 56 13 00-0644 EA Three Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	913.68	50.23
For Galvanized Finish, Add	81.32	
26 56 13 00-0645 EA Three Tenons At 120 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	971.22	50.23
For Galvanized Finish, Add	87.08	
26 56 13 00-0646 EA Four Tenons At 90 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	1,326.36	50.23
For Galvanized Finish, Add	122.59	
26 56 13 00-0647 EA Four Tenons At 180 Degrees, Steel, Round Bullhorn Style, Pole Top Area Light Bracket .....	1,381.67	50.23
For Galvanized Finish, Add	128.12	
<b>26 56 13 00-0648 Aluminum, Round Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0641)</b> Note: Includes satin brushed or painted finish.		
26 56 13 00-0649 EA Two Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket .....	286.77	50.23
For Bronze Or Satin Anodized Finish, Add	18.63	
For Black Anodized Finish, Add	37.26	

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 56</b>	<b>Exterior Lighting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 13 00-0650 EA Three Tenons At 120 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	346.21 24.58 49.15	50.23
26 56 13 00-0651 EA Three Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	362.21 26.18 52.35	50.23
26 56 13 00-0652 EA Four Tenons At 90 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	418.22 31.78 63.55	50.23
26 56 13 00-0653 EA Four Tenons At 180 Degrees, Aluminum, Round Bullhorn Style, Pole Top Area Light Bracket..... <i>For Bronze Or Satin Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i>	429.65 32.92 65.84	50.23
<b>26 56 13 00-0654 Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0640)</b>		
<b>26 56 13 00-0655 Steel, Square Bullhorn Style, Pole Top Area Light Brackets (26 56 13 00-0654)</b> Note: Includes powdercoat finish.		
26 56 13 00-0656 EA Two Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	779.01 67.86	50.23
26 56 13 00-0657 EA Three Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	959.56 85.91	50.23
26 56 13 00-0658 EA Four Tenons At 180 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	1,171.61 107.12	50.23
26 56 13 00-0659 EA Four Tenons At 90 Degrees, Steel, Square Bullhorn Style, Pole Top Area Light Bracket..... <i>For Galvanized Finish, Add</i>	1,384.65 128.42	50.23
<b>26 56 13 00-0660 Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0639)</b>		
<b>26 56 13 00-0661 Steel, Wood Pole Clamp On Style, Pole Top Area Light Brackets (26 56 13 00-0660)</b> Note: Includes powdercoat finish.		
26 56 13 00-0662 EA One Tenon, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	745.29	83.71
26 56 13 00-0663 EA Two Tenons At 90, 120 Or 180 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,114.82	83.71
26 56 13 00-0664 EA Three Tenons At 120 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,552.06	83.71
26 56 13 00-0665 EA Four Tenons At 90 Degrees, Steel, Wood Pole Clamp On Style, Pole Top Area Light Bracket.....	1,695.90	83.71
<b>26 56 13 00-0666 Light Pole Arms (26 56 13 00-0638)</b>		
<b>26 56 13 00-0667 Wood Pole Streetlight Arms (26 56 13 00-0666)</b>		
<b>26 56 13 00-0668 Steel, Wood Pole Streetlight Arms (26 56 13 00-0667)</b>		
26 56 13 00-0669 EA 1-1/4" Arm Diameter, 2-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	438.88	75.35
26 56 13 00-0670 EA 1-1/4" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	465.29	83.71
26 56 13 00-0671 EA 1-1/4" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	541.14	104.65
26 56 13 00-0672 EA 2" Arm Diameter, 3-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	642.37	83.71
26 56 13 00-0673 EA 2" Arm Diameter, 5-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	717.72	104.65
26 56 13 00-0674 EA 2" Arm Diameter, 7-1/2' Arm Length, Galvanized Steel, Wood Pole Streetlight Arm, Bolt Mount.....	870.92	125.57
<b>26 56 13 00-0675 Aluminum, Wood Pole Streetlight Arms (26 56 13 00-0667)</b>		
26 56 13 00-0676 EA 1-1/4" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	295.42	83.71
26 56 13 00-0677 EA 2" Arm Diameter, 42" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	361.06	83.71
26 56 13 00-0678 EA 2" Arm Diameter, 66" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	480.92	104.65
26 56 13 00-0679 EA 2" Arm Diameter, 90" Arm Length, Aluminum Arm, Wood Pole Streetlight Arm, Bolt Mount.....	627.95	125.57
<b>26 56 13 00-0680 Area Light Arms (26 56 13 00-0666)</b>		
<b>26 56 13 00-0681 Steel Area Light Arms (26 56 13 00-0680)</b>		
26 56 13 00-0682 EA Single, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	826.29	83.71
26 56 13 00-0683 EA Two, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,288.28	92.09
26 56 13 00-0684 EA Three, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,431.13	100.46
26 56 13 00-0685 EA Four, 2.38" Arm Diameter, 4' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,697.52	108.83
26 56 13 00-0686 EA Single, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arm, Hub Mount.....	986.55	104.65
26 56 13 00-0687 EA Two, 2.38" Arm Diameter, 6' Arm Length, Upsweep Style, Steel Area Light Arms, Hub Mount.....	1,402.21	113.01
<b>26 56 13 00-0688 Aluminum Area Light Arms (26 56 13 00-0680)</b>		
26 56 13 00-0689 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	353.74	83.71
26 56 13 00-0690 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	436.76	104.65
26 56 13 00-0691 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Bolt Mount.....	522.04	125.57
26 56 13 00-0692 EA Single, 4' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	351.45	83.71
26 56 13 00-0693 EA Two, 4' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	491.65	92.09
26 56 13 00-0694 EA Single, 6' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	432.19	104.65
26 56 13 00-0695 EA Two, 6' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	599.80	113.01
26 56 13 00-0696 EA Single, 8' Arm Length, Mast Style, Aluminum Area Light Arm, Hub Mount.....	524.33	125.57
26 56 13 00-0697 EA Two, 8' Arm Length, Mast Style, Aluminum Area Light Arms, Hub Mount.....	727.38	133.95
<b>26 56 13 00-0698 Removal And Reinstallation Of Lighting Pole (26 56 13 00-0001)</b>		
26 56 13 00-0699 EA Removal And Relocation Of Up To 45' Lighting Pole And Standards With One Or Two Arms.....	2,762.93	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>26 56 13 00-0700</b>	<b>High Mast Lighting</b> <small>(26 56 13 00-0001)</small>		
<b>26 56 13 00-0701</b>	<b>High Mast Lighting Assemblies</b> <small>(26 56 13 00-0700)</small>		
	Note: Includes non-latching system, ring assembly with internal bumper, acrylic top cover, pulley supports, cast arm filter for pipe tension, transition assembly, standard head frame assembly, standard hoist, and powder coated pole. See CSI section 26 56 21 00-0001 for high mast fixtures.		
26 56 13 00-0702	EA 60' High Mast Lighting Assembly .....	57,414.81	2,551.73
26 56 13 00-0703	EA 70' High Mast Lighting Assembly .....	60,642.88	2,672.55
26 56 13 00-0704	EA 80' High Mast Lighting Assembly .....	63,918.68	2,847.09
26 56 13 00-0705	EA 90' High Mast Lighting Assembly .....	67,240.27	3,075.36
26 56 13 00-0706	EA 100' High Mast Lighting Assembly .....	70,589.44	3,357.23
26 56 13 00-0707	EA 110' High Mast Lighting Assembly .....	74,900.17	3,693.21
26 56 13 00-0708	EA 120' High Mast Lighting Assembly .....	78,394.71	4,028.91
26 56 13 00-0709	EA 130' High Mast Lighting Assembly .....	81,627.78	4,364.61
26 56 13 00-0710	EA 140' High Mast Lighting Assembly .....	85,122.31	4,700.48
26 56 13 00-0711	EA 150' High Mast Lighting Assembly .....	89,356.71	5,036.18

<b>26 56 13 00-0712</b>	<b>High Mast Light Poles</b> <small>(26 56 13 00-0700)</small>		
26 56 13 00-0713	EA 60' High Mast Light Poles .....	22,068.92	1,532.52
26 56 13 00-0714	EA 70' High Mast Light Poles .....	25,260.70	1,605.11
26 56 13 00-0715	EA 80' High Mast Light Poles .....	28,484.07	1,709.97
26 56 13 00-0716	EA 90' High Mast Light Poles .....	31,737.11	1,847.09
26 56 13 00-0717	EA 100' High Mast Light Poles .....	35,021.74	2,016.47
26 56 13 00-0718	EA 110' High Mast Light Poles .....	38,337.99	2,218.12
26 56 13 00-0719	EA 120' High Mast Light Poles .....	40,860.14	2,419.76
26 56 13 00-0720	EA 130' High Mast Light Poles .....	40,497.48	4,484.63
26 56 13 00-0721	EA 140' High Mast Light Poles .....	45,641.04	2,823.06
26 56 13 00-0722	EA 150' High Mast Light Poles .....	48,426.60	3,024.71

<b>26 56 13 00-0723</b>	<b>High Mast Lighting Accessories</b> <small>(26 56 13 00-0700)</small>		
	See CSI section 26 55 13 00-0119 for lighting fixtures, 26 56 21 00-0001 for light fixtures.		
26 56 13 00-0724	EA Bottom Latching System For High Mast Lighting .....	1,018.79	
26 56 13 00-0725	EA Top Latching System For High Mast Lighting .....	2,861.99	
26 56 13 00-0726	EA Centering Springs For High Mast Lighting .....	2,167.31	
26 56 13 00-0727	EA Electric Power Cord For High Mast Lighting .....	916.78	
26 56 13 00-0728	EA Aircraft Warning Lights For High Mast Lighting .....	1,718.01	
26 56 13 00-0729	EA Internal Motorized Hoist For High Mast Lighting .....	18,321.06	
26 56 13 00-0730	EA Portable Hoist Motor With Step Down Transformer For High Mast Lighting .....	18,442.88	

<b>26 56 13 00-0731</b>	<b>Concrete Bases</b> <small>(26 56 13 00-0001)</small>		
<b>26 56 13 00-0732</b>	<b>Concrete Bases, Cast In Place</b> <small>(26 56 13 00-0731)</small>		
	Note: Includes excavation/drilling, concrete, reinforcement, forms for exposed base, anchors/supports and backfill. Excludes conduit.		
26 56 13 00-0733	EA Cast In Place Concrete Base For Poles Minimum Charge .....	354.67	
	Note: For projects where the cast in place concrete base for poles charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
26 56 13 00-0734	VLF 1-1/2' Diameter Concrete Base For Poles .....	68.55	
26 56 13 00-0735	VLF 2' Diameter Concrete Base For Poles .....	96.83	
26 56 13 00-0736	VLF 2-1/2' Diameter Concrete Base For Poles .....	131.62	
26 56 13 00-0737	VLF 3' Diameter Concrete Base For Poles .....	173.76	
26 56 13 00-0738	VLF 3-1/2' Diameter Concrete Base For Poles .....	231.14	
26 56 13 00-0739	VLF 4' Diameter Concrete Base For Poles .....	291.11	
26 56 13 00-0740	VLF 5' Diameter Concrete Base For Poles .....	425.64	
26 56 13 00-0741	VLF 6' Diameter Concrete Base For Poles .....	588.28	

<b>26 56 18</b>	<b>Incandescent Exterior Lighting</b> <small>(26 56)</small>		
<b>26 56 18 00-0001</b>	<b>Exterior Globe</b> <small>(26 56 18)</small>		
<b>26 56 18 00-0002</b>	<b>Incandescent, Exterior Globe</b> <small>(26 56 18 00-0001)</small>		
26 56 18 00-0003	EA 100 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture .....	70.49	28.11
26 56 18 00-0004	EA 150 To 200 Watt Incandescent, Enclosed And Gasketed, Exterior Wall Fixture .....	102.16	28.11
26 56 18 00-0005	EA 100 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture .....	80.15	28.11
26 56 18 00-0006	EA 150 To 200 Watt Incandescent, Enclosed And Gasketed With Guard, Exterior Wall Fixture .....	105.88	28.11

<b>26 56 18 00-0007</b>	<b>Compact Fluorescent And Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures</b> <small>(26 56 18)</small>		
	Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 18 00-0008	EA 7 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	311.66	112.45
26 56 18 00-0009	EA 9 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	325.77	119.47
26 56 18 00-0010	EA 13 Or 14 Watt Fluorescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	356.82	126.49
26 56 18 00-0011	EA 75 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	352.13	140.55
26 56 18 00-0012	EA 100 Watt Incandescent, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	397.86	161.63

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 56</b>	<b>Exterior Lighting</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**26 56 19 LED Exterior Lighting** (26 56)

26 56 19 00-0001	LED, Wall Packs <small>(26 56 19)</small>		
26 56 19 00-0002	Full Cutoff, LED Wall Packs <small>(26 56 19 00-0001)</small>		
26 56 19 00-0003	Full Cutoff, LED Wall Packs (Lithonia) <small>(26 56 19 00-0002)</small>		
26 56 19 00-0004	EA 30 LEDs, 57 Watt, 530 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	1,022.77	147.60
	<i>For &gt;50 To 100, Deduct</i>	-51.14	
	<i>For &gt;100 To 250, Deduct</i>	-76.71	
	<i>For &gt;250 To 500, Deduct</i>	-120.47	
	<i>For &gt;500 To 1000, Deduct</i>	-164.22	
	<i>For &gt;1000, Deduct</i>	-207.98	
26 56 19 00-0005	EA 30 LEDs, 35 Watt, 350 mA Drive Current, Full Cutoff, LED Wall Pack (Lithonia CSXW LED).....	1,101.75	147.60
	<i>For &gt;50 To 100, Deduct</i>	-55.09	
	<i>For &gt;100 To 250, Deduct</i>	-82.63	
	<i>For &gt;250 To 500, Deduct</i>	-130.34	
	<i>For &gt;500 To 1000, Deduct</i>	-178.05	
	<i>For &gt;1000, Deduct</i>	-225.75	
26 56 19 00-0006	Full Cutoff, LED Wall Packs (CREE® BetaLED®) <small>(26 56 19 00-0002)</small>		
26 56 19 00-0007	Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® Edge® SEC-EDG) <small>(26 56 19 00-0006)</small>		
	Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0008	EA 20 LEDs, 26 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) .....	1,101.65	143.39
	Note: Includes 350mA or 525mA driver.		
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
	<i>For Bird Spikes, Add</i>	56.85	
	<i>For Fuse, Add</i>	67.48	
	<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
	<i>For 480 Volt, Add</i>	101.23	
	<i>For Multi-Level, Add</i>	146.21	
	<i>For &gt;50 To 100, Deduct</i>	-55.08	
	<i>For &gt;100 To 250, Deduct</i>	-82.62	
	<i>For &gt;250 To 500, Deduct</i>	-130.54	
	<i>For &gt;500 To 1000, Deduct</i>	-178.45	
	<i>For &gt;1000, Deduct</i>	-226.36	
26 56 19 00-0009	EA 40 LEDs, 47 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) .....	1,413.77	151.82
	Note: Includes 350mA or 525mA driver.		
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
	<i>For Bird Spikes, Add</i>	57.69	
	<i>For Fuse, Add</i>	67.48	
	<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
	<i>For 480 Volt, Add</i>	101.23	
	<i>For Multi-Level, Add</i>	146.21	
	<i>For &gt;50 To 100, Deduct</i>	-70.69	
	<i>For &gt;100 To 250, Deduct</i>	-106.03	
	<i>For &gt;250 To 500, Deduct</i>	-169.13	
	<i>For &gt;500 To 1000, Deduct</i>	-232.23	
	<i>For &gt;1000, Deduct</i>	-295.33	
26 56 19 00-0010	EA 60 LEDs, 68 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) .....	1,583.15	160.24
	Note: Includes 350mA or 525mA driver.		
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
	<i>For Bird Spikes, Add</i>	58.54	
	<i>For Fuse, Add</i>	67.48	
	<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
	<i>For 480 Volt, Add</i>	101.23	
	<i>For Multi-Level, Add</i>	146.21	
	<i>For &gt;50 To 100, Deduct</i>	-79.16	
	<i>For &gt;100 To 250, Deduct</i>	-118.74	
	<i>For &gt;250 To 500, Deduct</i>	-189.88	
	<i>For &gt;500 To 1000, Deduct</i>	-261.03	
	<i>For &gt;1000, Deduct</i>	-332.17	
26 56 19 00-0011	EA 80 LEDs, 90 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) .....	2,038.02	168.68
	Note: Includes 350mA or 525mA driver.		
	<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
	<i>For Bird Spikes, Add</i>	59.38	
	<i>For Fuse, Add</i>	67.48	
	<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
	<i>For 480 Volt, Add</i>	101.23	
	<i>For Multi-Level, Add</i>	146.21	
	<i>For &gt;50 To 100, Deduct</i>	-101.90	
	<i>For &gt;100 To 250, Deduct</i>	-152.85	
	<i>For &gt;250 To 500, Deduct</i>	-246.32	
	<i>For &gt;500 To 1000, Deduct</i>	-339.79	
	<i>For &gt;1000, Deduct</i>	-433.25	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0012	EA		100 LEDs, 111 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) ..... <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Bird Spikes, Add</i> <i>For Fuse, Add</i> <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	2,350.14 22.49 60.22 67.48 67.48 101.23 146.21 -117.51 -176.26 -284.91 -393.56 -502.21	177.11
26 56 19 00-0013	EA		120 LEDs, 132 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® Edge® SEC-EDG) ..... <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For Bird Spikes, Add</i> <i>For Fuse, Add</i> <i>For 0 To 10 Volt Dimming, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	2,662.27 22.49 61.07 67.48 67.48 101.23 146.21 -133.11 -199.67 -323.51 -447.34 -571.18	185.55
26 56 19 00-0014			<b>Wall Mount, Full Cutoff, LED Wall Packs (CREE® BetaLED® XSPW™)</b> <small>(26 56 19 00-0006)</small> <small>Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-277 voltage, Class 2 driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.</small>		
26 56 19 00-0015	EA		25 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) ..... <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For 0 To 10 Volt Dimming, Add</i> <i>For Multi-Level, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	663.21 22.49 67.48 67.48 -33.16 -49.74 -75.73 -101.72 -127.72	143.39
26 56 19 00-0016	EA		42 Watt, Wall Mount, Full Cutoff, LED Wall Pack (CREE® BetaLED® XSPW™) ..... <i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i> <i>For 0 To 10 Volt Dimming, Add</i> <i>For Multi-Level, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	767.91 22.49 67.48 67.48 -38.40 -57.59 -88.40 -119.20 -150.01	151.82
26 56 19 00-0017			<b>Full Cutoff, LED Wall Packs (McGraw-Edison)</b> <small>(26 56 19 00-0002)</small>		
26 56 19 00-0018	EA		One 7 LED Light Bar, 27 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,341.09	143.39
26 56 19 00-0019	EA		Two 7 LED Light Bars, 54 System Watts, 1 A Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,657.32	151.82
26 56 19 00-0020	EA		One 21 LED Light Bar, 27 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,356.50	143.39
26 56 19 00-0021	EA		Two 21 LED Light Bars, 51 System Watts, 350 mA Drive Current, Full Cutoff, LED Wall Pack (McGraw-Edison IST).....	1,798.19	151.82
26 56 19 00-0022			<b>Open Face LED Wall Pack</b> <small>(26 56 19 00-0001)</small> <small>Note: Heavy-duty cast aluminum housing is polyester powder coated to be rust and corrosion proof, High-quality shatter-resistant glass</small>		
26 56 19 00-0023	EA		3,640 Lumens, 28 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP28U-50B-MS)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	842.54 -42.13 -63.19 -93.78 -124.37 -154.96	153.82
26 56 19 00-0024	EA		5,540 Lumens, 40 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP40U-50B-MS)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	898.92 -44.95 -67.42 -100.83 -134.24 -167.65	153.82
26 56 19 00-0025	EA		7,065 Lumens, 50 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP50U-50B-MS)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	928.45 -46.42 -69.63 -104.52 -139.41 -174.29	153.82
26 56 19 00-0026	EA		11,375 Lumens, 80 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP80U-50B-MS)..... <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	952.39 -47.62 -71.43 -107.51 -143.60 -179.68	153.82

<b>26</b>	<b>Electrical</b>
<b>26 50</b>	<b>Lighting</b>
<b>26 56</b>	<b>Exterior Lighting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0027 EA 16,945 Lumens, 120 Watt, Open Face LED Wall Pack, With Motion Sensor (Maxlite WP-OP120U-50B-MS).....	1,132.00	153.82
For >50 To 100, Deduct	-56.60	
For >100 To 250, Deduct	-84.90	
For >250 To 500, Deduct	-129.96	
For >500 To 1000, Deduct	-175.03	
For >1000, Deduct	-220.09	
<b>26 56 19 00-0028 Wall Pack Accessories</b> (26 56 19 00-0001)		
26 56 19 00-0029 EA Photocell For Wall Pack.....	154.48	38.46
26 56 19 00-0030 EA Wire Guard For Mini And Small Wall Pack .....	170.70	38.46
26 56 19 00-0031 EA Wire Guard For Medium And Large Wall Pack .....	238.52	38.46
26 56 19 00-0032 EA Clear Polycarbonate Vandal Guard For Wall Packs .....	336.38	38.46
26 56 19 00-0033 EA Full Cutoff Visor For Wall Pack.....	166.28	38.46
<b>26 56 19 00-0034 LED, Roadway Lighting</b> (26 56 19)		
<b>26 56 19 00-0035 LED Roadway Lighting (Philips Lumec)</b> (26 56 19 00-0034)		
<b>26 56 19 00-0036 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec GPL Series)</b> (26 56 19 00-0035)		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 570mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0037 EA 49 LEDs, 102 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLS Series).....	1,680.31	202.85
For >50 To 100, Deduct	-84.02	
For >100 To 250, Deduct	-126.02	
For >250 To 500, Deduct	-199.90	
For >500 To 1000, Deduct	-273.77	
For >1000, Deduct	-347.64	
26 56 19 00-0038 EA 98 LEDs, 204 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec GPLM Series) .....	2,591.46	208.32
For >50 To 100, Deduct	-129.57	
For >100 To 250, Deduct	-194.36	
For >250 To 500, Deduct	-313.52	
For >500 To 1000, Deduct	-432.67	
For >1000, Deduct	-551.83	
<b>26 56 19 00-0039 Horizontal Tenon Mount, LED Cobra Head Street Lights (Philips Lumec RFM Series)</b> (26 56 19 00-0035)		
Note: UL wet listed. Includes 3,000 to 4,000K color temperature, 120-277 voltage, up to 1050mA driver, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0040 EA 48 LEDs, 55 Watt, Type III Medium, 120-277 Volt, Horizontal Tenon Mount, LED Cobra Head Street Light (Philips Lumec RFM Series).....	1,237.82	202.85
For >50 To 100, Deduct	-61.89	
For >100 To 250, Deduct	-92.84	
For >250 To 500, Deduct	-144.59	
For >500 To 1000, Deduct	-196.33	
For >1000, Deduct	-248.08	
26 56 19 00-0041 EA 48 LEDs, 80 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,237.82	202.85
For >50 To 100, Deduct	-61.89	
For >100 To 250, Deduct	-92.84	
For >250 To 500, Deduct	-144.59	
For >500 To 1000, Deduct	-196.33	
For >1000, Deduct	-248.08	
26 56 19 00-0042 EA 48 LEDs, 108 Watt, Type III Medium, 120-277 Volt, RoadFocus Roadway, LED Cobra Head Luminaire (Philips Lumec RFM Series).....	1,237.82	202.85
For >50 To 100, Deduct	-61.89	
For >100 To 250, Deduct	-92.84	
For >250 To 500, Deduct	-144.59	
For >500 To 1000, Deduct	-196.33	
For >1000, Deduct	-248.08	
<b>26 56 19 00-0043 LED Roadway Lighting (Lithonia)</b> (26 56 19 00-0034)		
<b>26 56 19 00-0044 Horizontal Tenon Mount, LED Cobra Head Street Lights (Lithonia CSX1 Series)</b> (26 56 19 00-0043)		
Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 700mA driver, die-cast extruded aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 19 00-0045 EA 30 LEDs, 74 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	2,410.68	191.88
For >50 To 100, Deduct	-120.53	
For >100 To 250, Deduct	-180.80	
For >250 To 500, Deduct	-291.74	
For >500 To 1000, Deduct	-402.68	
For >1000, Deduct	-513.62	
26 56 19 00-0046 EA 60 LEDs, 146 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (Lithonia CSX1 Series).....	3,950.72	197.36
For >50 To 100, Deduct	-197.54	
For >100 To 250, Deduct	-296.30	
For >250 To 500, Deduct	-483.97	
For >500 To 1000, Deduct	-671.64	
For >1000, Deduct	-859.31	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0047 LED Roadway Lighting (CREE® BetaLED®) <small>(26 56 19 00-0034)</small>		
26 56 19 00-0048 Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® LEDway® STR-LWY) <small>(26 56 19 00-0047)</small>		
Note: UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type II Medium, Type II Short or Type III Medium optic. Excludes sensors.		
26 56 19 00-0049 EA 20 LEDs, 25 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	1,025.10	186.39
For >50 To 100, Deduct	-51.26	
For >100 To 250, Deduct	-76.88	
For >250 To 500, Deduct	-118.82	
For >500 To 1000, Deduct	-160.75	
For >1000, Deduct	-202.69	
26 56 19 00-0050 EA 30 LEDs, 35 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	1,146.68	191.88
For >50 To 100, Deduct	-57.33	
For >100 To 250, Deduct	-86.00	
For >250 To 500, Deduct	-133.74	
For >500 To 1000, Deduct	-181.48	
For >1000, Deduct	-229.22	
26 56 19 00-0051 EA 40 LEDs, 45 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	1,293.07	197.36
For >50 To 100, Deduct	-64.65	
For >100 To 250, Deduct	-96.98	
For >250 To 500, Deduct	-151.77	
For >500 To 1000, Deduct	-206.55	
For >1000, Deduct	-261.34	
26 56 19 00-0052 EA 50 LEDs, 55 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	1,416.56	202.85
For >50 To 100, Deduct	-70.83	
For >100 To 250, Deduct	-106.24	
For >250 To 500, Deduct	-166.93	
For >500 To 1000, Deduct	-227.61	
For >1000, Deduct	-288.30	
26 56 19 00-0053 EA 60 LEDs, 65 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	1,540.05	208.32
For >50 To 100, Deduct	-77.00	
For >100 To 250, Deduct	-115.50	
For >250 To 500, Deduct	-182.09	
For >500 To 1000, Deduct	-248.68	
For >1000, Deduct	-315.26	
26 56 19 00-0054 EA 70 LEDs, 75 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	1,831.41	213.81
For >50 To 100, Deduct	-91.57	
For >100 To 250, Deduct	-137.36	
For >250 To 500, Deduct	-218.24	
For >500 To 1000, Deduct	-299.12	
For >1000, Deduct	-380.00	
26 56 19 00-0055 EA 80 LEDs, 86 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	1,954.90	219.29
For >50 To 100, Deduct	-97.75	
For >100 To 250, Deduct	-146.62	
For >250 To 500, Deduct	-233.40	
For >500 To 1000, Deduct	-320.18	
For >1000, Deduct	-406.96	
26 56 19 00-0056 EA 90 LEDs, 96 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	2,076.50	224.77
For >50 To 100, Deduct	-103.83	
For >100 To 250, Deduct	-155.74	
For >250 To 500, Deduct	-248.32	
For >500 To 1000, Deduct	-340.91	
For >1000, Deduct	-433.50	
26 56 19 00-0057 EA 100 LEDs, 111 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	2,312.52	230.25
For >50 To 100, Deduct	-115.63	
For >100 To 250, Deduct	-173.44	
For >250 To 500, Deduct	-277.55	
For >500 To 1000, Deduct	-381.67	
For >1000, Deduct	-485.78	
26 56 19 00-0058 EA 110 LEDs, 122 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	2,436.01	235.74
For >50 To 100, Deduct	-121.80	
For >100 To 250, Deduct	-182.70	
For >250 To 500, Deduct	-292.71	
For >500 To 1000, Deduct	-402.73	
For >1000, Deduct	-512.74	
26 56 19 00-0059 EA 120 LEDs, 133 Watt, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® BetaLED® LEDway® STR-LWY) .....	2,559.52	241.21
For >50 To 100, Deduct	-127.98	
For >100 To 250, Deduct	-191.96	
For >250 To 500, Deduct	-307.88	
For >500 To 1000, Deduct	-423.79	
For >1000, Deduct	-539.71	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 56 19 00-0060	Surface Mount, LED Transportation Fixtures (CREE® BetaLED® Edge® TSP-EDG) <small>(26 56 19 00-0047)</small>		
	Note: Direct, cantenary or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0061	EA 40 LEDs, 47 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	1,989.24	197.36
	For Multi-Level Drive Currents, Add	267.03	
	For >50 To 100, Deduct	-99.46	
	For >100 To 250, Deduct	-149.19	
	For >250 To 500, Deduct	-238.79	
	For >500 To 1000, Deduct	-328.38	
	For >1000, Deduct	-417.98	
26 56 19 00-0062	EA 60 LEDs, 68 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,291.54	208.32
	For Multi-Level Drive Currents, Add	267.03	
	For >50 To 100, Deduct	-114.58	
	For >100 To 250, Deduct	-171.87	
	For >250 To 500, Deduct	-276.03	
	For >500 To 1000, Deduct	-380.19	
	For >1000, Deduct	-484.35	
26 56 19 00-0063	EA 80 LEDs, 90 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,593.86	219.29
	For Multi-Level Drive Currents, Add	267.03	
	For >50 To 100, Deduct	-129.69	
	For >100 To 250, Deduct	-194.54	
	For >250 To 500, Deduct	-313.27	
	For >500 To 1000, Deduct	-432.00	
	For >1000, Deduct	-550.73	
26 56 19 00-0064	EA 100 LEDs, 111 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	2,896.16	230.25
	For Multi-Level Drive Currents, Add	267.03	
	For >50 To 100, Deduct	-144.81	
	For >100 To 250, Deduct	-217.21	
	For >250 To 500, Deduct	-350.51	
	For >500 To 1000, Deduct	-483.80	
	For >1000, Deduct	-617.10	
26 56 19 00-0065	EA 120 LEDs, 132 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	3,793.56	241.21
	For Multi-Level Drive Currents, Add	267.03	
	For >50 To 100, Deduct	-189.68	
	For >100 To 250, Deduct	-284.52	
	For >250 To 500, Deduct	-462.13	
	For >500 To 1000, Deduct	-639.75	
	For >1000, Deduct	-817.37	
26 56 19 00-0066	EA 140 LEDs, 157 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	4,095.86	252.18
	For Multi-Level Drive Currents, Add	267.03	
	For >50 To 100, Deduct	-204.79	
	For >100 To 250, Deduct	-307.19	
	For >250 To 500, Deduct	-499.37	
	For >500 To 1000, Deduct	-691.56	
	For >1000, Deduct	-883.74	
26 56 19 00-0067	EA 160 LEDs, 179 Watt, Surface Mount, LED Transportation Fixture (CREE® BetaLED® Edge® TSP-EDG).....	4,398.16	263.15
	For Multi-Level Drive Currents, Add	267.03	
	For >50 To 100, Deduct	-219.91	
	For >100 To 250, Deduct	-329.86	
	For >250 To 500, Deduct	-536.61	
	For >500 To 1000, Deduct	-743.36	
	For >1000, Deduct	-950.11	
26 56 19 00-0068	Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® BetaLED® XSP) <small>(26 56 19 00-0047)</small>		
	Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0069	EA 4,806 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A).....	864.76	197.36
	For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
	For Backlight Control Shield, Add	41.01	
	For Field Adjustable Output, Add	33.75	
	For Bird Spikes, Add	62.25	
	For Field Adjustable Output And Utility Label, Add	44.99	
	For Fuse, Add	67.48	
	For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	67.48	
	For 480 Volt, Add	101.23	
	For Multi-Level, Add	146.21	
	For >50 To 100, Deduct	-43.24	
	For >100 To 250, Deduct	-64.86	
	For >250 To 500, Deduct	-98.23	
	For >500 To 1000, Deduct	-131.60	
	For >1000, Deduct	-164.97	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0070 EA 5,340 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-B-HT-XXX-A) .....	864.76	197.36
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Backlight Control Shield, Add	41.01	
For Field Adjustable Output, Add	33.75	
For Bird Spikes, Add	62.25	
For Field Adjustable Output And Utility Label, Add	44.99	
For Fuse, Add	67.48	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	67.48	
For 480 Volt, Add	101.23	
For Multi-Level, Add	146.21	
For >50 To 100, Deduct	-43.24	
For >100 To 250, Deduct	-64.86	
For >250 To 500, Deduct	-98.23	
For >500 To 1000, Deduct	-131.60	
For >1000, Deduct	-164.97	
26 56 19 00-0071 EA 8,407 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E) .....	949.79	197.36
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Backlight Control Shield, Add	41.01	
For Field Adjustable Output, Add	33.75	
For Bird Spikes, Add	62.25	
For Field Adjustable Output And Utility Label, Add	44.99	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	67.48	
For 480 Volt, Add	101.23	
For >50 To 100, Deduct	-47.49	
For >100 To 250, Deduct	-71.23	
For >250 To 500, Deduct	-108.86	
For >500 To 1000, Deduct	-146.48	
For >1000, Deduct	-184.10	
26 56 19 00-0072 EA 8,820 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP1™ BXSP-C-HT-XXX-E) .....	949.79	197.36
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Backlight Control Shield, Add	41.01	
For Field Adjustable Output, Add	33.75	
For Bird Spikes, Add	62.25	
For Field Adjustable Output And Utility Label, Add	44.99	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	67.48	
For 480 Volt, Add	101.23	
For >50 To 100, Deduct	-47.49	
For >100 To 250, Deduct	-71.23	
For >250 To 500, Deduct	-108.86	
For >500 To 1000, Deduct	-146.48	
For >1000, Deduct	-184.10	
26 56 19 00-0073 EA 9,612 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B) .....	1,100.95	197.36
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Field Adjustable Output, Add	33.75	
For Backlight Control Shield, Add	57.52	
For Field Adjustable Output And Utility Label, Add	44.99	
For Fuse, Add	67.48	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	67.48	
For Bird Spikes, Add	100.06	
For 480 Volt, Add	101.23	
For Multi-Level, Add	146.21	
For >50 To 100, Deduct	-55.05	
For >100 To 250, Deduct	-82.57	
For >250 To 500, Deduct	-127.75	
For >500 To 1000, Deduct	-172.93	
For >1000, Deduct	-218.11	
26 56 19 00-0074 EA 10,680 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-B-HT-XXX-B) .....	1,100.95	197.36
For 3 Or 7-Pin NEMA Photocell Receptacle, Add	22.49	
For Field Adjustable Output, Add	33.75	
For Backlight Control Shield, Add	57.52	
For Field Adjustable Output And Utility Label, Add	44.99	
For Fuse, Add	67.48	
For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add	67.48	
For Bird Spikes, Add	100.06	
For 480 Volt, Add	101.23	
For Multi-Level, Add	146.21	
For >50 To 100, Deduct	-55.05	
For >100 To 250, Deduct	-82.57	
For >250 To 500, Deduct	-127.75	
For >500 To 1000, Deduct	-172.93	
For >1000, Deduct	-218.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0075	EA	13,732 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,242.68	197.36
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	57.52	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For Bird Spikes, Add</i>	100.06	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For &gt;50 To 100, Deduct</i>	-62.13	
			<i>For &gt;100 To 250, Deduct</i>	-93.20	
			<i>For &gt;250 To 500, Deduct</i>	-145.47	
			<i>For &gt;500 To 1000, Deduct</i>	-197.73	
			<i>For &gt;1000, Deduct</i>	-250.00	
26 56	19 00-0076	EA	14,408 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSP2™ BXSP-C-HT-XXX-F).....	1,242.68	197.36
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	57.52	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For Bird Spikes, Add</i>	100.06	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For &gt;50 To 100, Deduct</i>	-62.13	
			<i>For &gt;100 To 250, Deduct</i>	-93.20	
			<i>For &gt;250 To 500, Deduct</i>	-145.47	
			<i>For &gt;500 To 1000, Deduct</i>	-197.73	
			<i>For &gt;1000, Deduct</i>	-250.00	
26 56	19 00-0077	EA	2,529 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	713.59	197.36
			<i>For Utility Label, Add</i>	11.24	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	33.75	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For &gt;50 To 100, Deduct</i>	-35.68	
			<i>For &gt;100 To 250, Deduct</i>	-53.52	
			<i>For &gt;250 To 500, Deduct</i>	-79.33	
			<i>For &gt;500 To 1000, Deduct</i>	-105.14	
			<i>For &gt;1000, Deduct</i>	-130.95	
26 56	19 00-0078	EA	2,722 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-A-O-X-X-G).....	713.59	197.36
			<i>For Utility Label, Add</i>	11.24	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	33.75	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For &gt;50 To 100, Deduct</i>	-35.68	
			<i>For &gt;100 To 250, Deduct</i>	-53.52	
			<i>For &gt;250 To 500, Deduct</i>	-79.33	
			<i>For &gt;500 To 1000, Deduct</i>	-105.14	
			<i>For &gt;1000, Deduct</i>	-130.95	
26 56	19 00-0079	EA	3,819 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-X-C).....	749.02	197.36
			<i>For Utility Label, Add</i>	11.24	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	33.75	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For &gt;50 To 100, Deduct</i>	-37.45	
			<i>For &gt;100 To 250, Deduct</i>	-56.18	
			<i>For &gt;250 To 500, Deduct</i>	-83.76	
			<i>For &gt;500 To 1000, Deduct</i>	-111.34	
			<i>For &gt;1000, Deduct</i>	-138.93	
26 56	19 00-0080	EA	4,109 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™BXSPR-A-O-X-C).....	749.02	197.36
			<i>For Utility Label, Add</i>	11.24	
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	33.75	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For &gt;50 To 100, Deduct</i>	-37.45	
			<i>For &gt;100 To 250, Deduct</i>	-56.18	
			<i>For &gt;250 To 500, Deduct</i>	-83.76	
			<i>For &gt;500 To 1000, Deduct</i>	-111.34	
			<i>For &gt;1000, Deduct</i>	-138.93	
26 56	19 00-0081	EA	4,548 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A).....	760.83	197.36
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For &gt;50 To 100, Deduct</i>	-38.04	
			<i>For &gt;100 To 250, Deduct</i>	-57.06	
			<i>For &gt;250 To 500, Deduct</i>	-85.24	
			<i>For &gt;500 To 1000, Deduct</i>	-113.41	
			<i>For &gt;1000, Deduct</i>	-141.58	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0082	EA		4,627 Lumens, 5700K, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® XSPR™ BXSPR-B-HT-XXX-A) .....	760.83	197.36
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Field Adjustable Output And Utility Label, Add</i>	44.99	
			<i>For Field Adjustable Output, Utility Label And 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For &gt;50 To 100, Deduct</i>	-38.04	
			<i>For &gt;100 To 250, Deduct</i>	-57.06	
			<i>For &gt;250 To 500, Deduct</i>	-85.24	
			<i>For &gt;500 To 1000, Deduct</i>	-113.41	
			<i>For &gt;1000, Deduct</i>	-141.58	
<b>26 56 19 00-0083</b>			<b>Horizontal Tenon Mount, LED Cobra Head Street Lights (CREE® RSW™)</b>		
			<small>(26 56 19 00-0047)</small> Note: UL wet listed. Includes 120-277 voltage, die-cast extruded aluminum housing assembly and gray powder coat finish. Includes utility label and NEMA® photocell receptacle. Excludes sensors.		
26 56 19 00-0084	EA		3,300 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-30K-UL-GY-N) .....	737.22	197.36
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	75.98	
			<i>For Bird Spikes, Add</i>	100.72	
			<i>For &gt;50 To 100, Deduct</i>	-36.86	
			<i>For &gt;100 To 250, Deduct</i>	-55.29	
			<i>For &gt;250 To 500, Deduct</i>	-82.28	
			<i>For &gt;500 To 1000, Deduct</i>	-109.28	
			<i>For &gt;1000, Deduct</i>	-136.27	
26 56 19 00-0085	EA		3,300 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-XXX-30W-40K-UL-GY-N) .....	737.22	197.36
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	75.98	
			<i>For Bird Spikes, Add</i>	100.72	
			<i>For &gt;50 To 100, Deduct</i>	-36.86	
			<i>For &gt;100 To 250, Deduct</i>	-55.29	
			<i>For &gt;250 To 500, Deduct</i>	-82.28	
			<i>For &gt;500 To 1000, Deduct</i>	-109.28	
			<i>For &gt;1000, Deduct</i>	-136.27	
26 56 19 00-0086	EA		5,000 Lumens, 3000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-30K-UL-GY-N) .....	760.83	197.36
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	75.98	
			<i>For Bird Spikes, Add</i>	100.72	
			<i>For &gt;50 To 100, Deduct</i>	-38.04	
			<i>For &gt;100 To 250, Deduct</i>	-57.06	
			<i>For &gt;250 To 500, Deduct</i>	-85.24	
			<i>For &gt;500 To 1000, Deduct</i>	-113.41	
			<i>For &gt;1000, Deduct</i>	-141.58	
26 56 19 00-0087	EA		5,000 Lumens, 4000K CCT, Horizontal Tenon Mount, LED Cobra Head Street Light (CREE® RSW-HT-2ME-50W-40K-UL-GY-N) .....	760.83	197.36
			<i>For Field Adjustable Output, Add</i>	33.75	
			<i>For Backlight Control Shield, Add</i>	75.98	
			<i>For Bird Spikes, Add</i>	100.72	
			<i>For &gt;50 To 100, Deduct</i>	-38.04	
			<i>For &gt;100 To 250, Deduct</i>	-57.06	
			<i>For &gt;250 To 500, Deduct</i>	-85.24	
			<i>For &gt;500 To 1000, Deduct</i>	-113.41	
			<i>For &gt;1000, Deduct</i>	-141.58	
<b>26 56 19 00-0088</b>			<b>LED Roadway Lighting (Cooper Lighting)</b> <small>(26 56 19 00-0034)</small>		
<b>26 56 19 00-0089</b>			<b>Horizontal Tenon Mount, LED Roadway Fixtures (Cooper Lighting Streetworks NVN™)</b> <small>(26 56 19 00-0088)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0090	EA		1 LED Light Square, 51 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA) .....	1,091.74	197.36
			<i>For &gt;50 To 100, Deduct</i>	-54.59	
			<i>For &gt;100 To 250, Deduct</i>	-81.88	
			<i>For &gt;250 To 500, Deduct</i>	-126.60	
			<i>For &gt;500 To 1000, Deduct</i>	-171.32	
			<i>For &gt;1000, Deduct</i>	-216.04	
26 56 19 00-0091	EA		2 LED Light Squares, 103 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA) .....	1,465.62	219.29
			<i>For &gt;50 To 100, Deduct</i>	-73.28	
			<i>For &gt;100 To 250, Deduct</i>	-109.92	
			<i>For &gt;250 To 500, Deduct</i>	-172.24	
			<i>For &gt;500 To 1000, Deduct</i>	-234.55	
			<i>For &gt;1000, Deduct</i>	-296.87	
26 56 19 00-0092	EA		3 LED Light Squares, 154 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA) .....	1,577.07	252.18
			<i>For &gt;50 To 100, Deduct</i>	-78.85	
			<i>For &gt;100 To 250, Deduct</i>	-118.28	
			<i>For &gt;250 To 500, Deduct</i>	-184.52	
			<i>For &gt;500 To 1000, Deduct</i>	-250.77	
			<i>For &gt;1000, Deduct</i>	-317.01	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0093	EA		4 LED Light Squares, 206 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	2,316.87	274.12
			<i>For &gt;50 To 100, Deduct</i>	-115.84	
			<i>For &gt;100 To 250, Deduct</i>	-173.77	
			<i>For &gt;250 To 500, Deduct</i>	-275.90	
			<i>For &gt;500 To 1000, Deduct</i>	-378.04	
			<i>For &gt;1000, Deduct</i>	-480.18	
26 56 19 00-0094	EA		6 LED Light Squares, 309 Watt, Horizontal Tenon Mount, LED Roadway Fixture (Cooper Lighting Streetworks™ NVN-AA).....	3,024.79	312.07
			<i>For &gt;50 To 100, Deduct</i>	-151.24	
			<i>For &gt;100 To 250, Deduct</i>	-226.86	
			<i>For &gt;250 To 500, Deduct</i>	-362.50	
			<i>For &gt;500 To 1000, Deduct</i>	-498.13	
			<i>For &gt;1000, Deduct</i>	-633.77	
26 56 19 00-0095			<b>LED Roadway Lighting (PlanLED)</b> <small>(26 56 19 00-0034)</small>		
26 56 19 00-0096			<b>Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera HERA)</b> <small>(26 56 19 00-0095)</small>		
			Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0097	EA		8,500 Lumens, 85 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 85W) .....	1,298.84	191.88
			<i>For &gt;50 To 100, Deduct</i>	-64.94	
			<i>For &gt;100 To 250, Deduct</i>	-97.41	
			<i>For &gt;250 To 500, Deduct</i>	-152.76	
			<i>For &gt;500 To 1000, Deduct</i>	-208.11	
			<i>For &gt;1000, Deduct</i>	-263.46	
26 56 19 00-0098	EA		11,000 Lumens, 110 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 110W) .....	1,408.50	193.98
			<i>For &gt;50 To 100, Deduct</i>	-70.43	
			<i>For &gt;100 To 250, Deduct</i>	-105.64	
			<i>For &gt;250 To 500, Deduct</i>	-166.36	
			<i>For &gt;500 To 1000, Deduct</i>	-227.09	
			<i>For &gt;1000, Deduct</i>	-287.81	
26 56 19 00-0099	EA		15,000 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera HERA 150W) .....	1,495.36	197.36
			<i>For &gt;50 To 100, Deduct</i>	-74.77	
			<i>For &gt;100 To 250, Deduct</i>	-112.15	
			<i>For &gt;250 To 500, Deduct</i>	-177.05	
			<i>For &gt;500 To 1000, Deduct</i>	-241.95	
			<i>For &gt;1000, Deduct</i>	-306.85	
26 56 19 00-0100			<b>Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera SETA)</b> <small>(26 56 19 00-0095)</small>		
			Note: UL wet listed. Includes 3,000K, 3,500K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0101	EA		7,200 Lumens, 60 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET060) .....	874.20	187.24
			<i>For &gt;50 To 100, Deduct</i>	-43.71	
			<i>For &gt;100 To 250, Deduct</i>	-65.57	
			<i>For &gt;250 To 500, Deduct</i>	-99.91	
			<i>For &gt;500 To 1000, Deduct</i>	-134.26	
			<i>For &gt;1000, Deduct</i>	-168.61	
26 56 19 00-0102	EA		10,000 Lumens, 80 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET080) .....	933.65	190.62
			<i>For &gt;50 To 100, Deduct</i>	-46.68	
			<i>For &gt;100 To 250, Deduct</i>	-70.02	
			<i>For &gt;250 To 500, Deduct</i>	-107.18	
			<i>For &gt;500 To 1000, Deduct</i>	-144.33	
			<i>For &gt;1000, Deduct</i>	-181.48	
26 56 19 00-0103	EA		12,500 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera SETA SET100) .....	1,026.86	193.98
			<i>For &gt;50 To 100, Deduct</i>	-51.34	
			<i>For &gt;100 To 250, Deduct</i>	-77.01	
			<i>For &gt;250 To 500, Deduct</i>	-118.66	
			<i>For &gt;500 To 1000, Deduct</i>	-160.30	
			<i>For &gt;1000, Deduct</i>	-201.95	
26 56 19 00-0104			<b>Horizontal Tenon Mount, LED Roadway Fixtures (PlanLED GigaTera META)</b> <small>(26 56 19 00-0095)</small>		
			Note: UL wet listed. Includes 3,000K, 4,000K or 5,000K color temperature, 120-277 voltage, integral 20kV surge suppression, die-cast extruded aluminum housing assembly and powder coat finish. Excludes sensors.		
26 56 19 00-0105	EA		13,000 Lumens, 100 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT100).....	1,088.00	193.98
			<i>For 0 To 10 Volt Dimming, Add</i>	91.12	
			<i>For 480 Volt, Add</i>	91.12	
			<i>For &gt;50 To 100, Deduct</i>	-54.40	
			<i>For &gt;100 To 250, Deduct</i>	-81.60	
			<i>For &gt;250 To 500, Deduct</i>	-126.30	
			<i>For &gt;500 To 1000, Deduct</i>	-171.00	
			<i>For &gt;1000, Deduct</i>	-215.70	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0106 EA 16,900 Lumens, 130 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT130) .....	1,201.02	195.68
For 0 To 10 Volt Dimming, Add	91.12	
For 480 Volt, Add	27.52	
For >50 To 100, Deduct	-60.05	
For >100 To 250, Deduct	-90.08	
For >250 To 500, Deduct	-140.34	
For >500 To 1000, Deduct	-190.61	
For >1000, Deduct	-240.88	
26 56 19 00-0107 EA 19,500 Lumens, 150 Watt, Horizontal Tenon Mount, LED Roadway Fixture (PlanLED GigaTera META MT150) .....	1,288.73	197.36
For 0 To 10 Volt Dimming, Add	91.12	
For 480 Volt, Add	113.84	
For >50 To 100, Deduct	-64.44	
For >100 To 250, Deduct	-96.65	
For >250 To 500, Deduct	-151.22	
For >500 To 1000, Deduct	-205.79	
For >1000, Deduct	-260.36	
<b>26 56 19 00-0108 LED Roadway Lighting (General Electric) (26 56 19 00-0034)</b>		
<b>26 56 19 00-0109 Horizontal Tenon Mount, LED Cobra Head Street Lights (General Electric)</b>		
(26 56 19 00-0108)		
Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or gray powder coat finish. Excludes sensors.		
26 56 19 00-0110 EA 2,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 02XX 40 A GRAY) .....	680.74	186.39
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-34.04	
For >100 To 250, Deduct	-51.06	
For >250 To 500, Deduct	-75.77	
For >500 To 1000, Deduct	-100.49	
For >1000, Deduct	-125.21	
26 56 19 00-0111 EA 3,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 03XX 40 A GRAY) .....	685.80	188.92
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-34.29	
For >100 To 250, Deduct	-51.44	
For >250 To 500, Deduct	-76.28	
For >500 To 1000, Deduct	-101.12	
For >1000, Deduct	-125.97	
26 56 19 00-0112 EA 4,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 04XX 40 A GRAY) .....	713.01	191.88
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-35.65	
For >100 To 250, Deduct	-53.48	
For >250 To 500, Deduct	-79.53	
For >500 To 1000, Deduct	-105.59	
For >1000, Deduct	-131.65	
26 56 19 00-0113 EA 5,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 05XX 40 A GRAY) .....	740.48	193.98
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-37.02	
For >100 To 250, Deduct	-55.54	
For >250 To 500, Deduct	-82.86	
For >500 To 1000, Deduct	-110.19	
For >1000, Deduct	-137.51	
26 56 19 00-0114 EA 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 07XX 40 A GRAY) .....	812.82	198.21
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-40.64	
For >100 To 250, Deduct	-60.96	
For >250 To 500, Deduct	-91.69	
For >500 To 1000, Deduct	-122.42	
For >1000, Deduct	-153.15	
26 56 19 00-0115 EA 8,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 08XX 40 A GRAY) .....	851.06	199.89
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-42.55	
For >100 To 250, Deduct	-63.83	
For >250 To 500, Deduct	-96.39	
For >500 To 1000, Deduct	-128.95	
For >1000, Deduct	-161.50	
26 56 19 00-0116 EA 9,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL1 0 10XX 40 A GRAY) .....	922.81	202.85
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-46.14	
For >100 To 250, Deduct	-69.21	
For >250 To 500, Deduct	-105.21	
For >500 To 1000, Deduct	-141.21	
For >1000, Deduct	-177.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0117 EA 13,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERLH 0 13XX 40 A GRAY).....	1,075.15	208.32
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-53.76	
For >100 To 250, Deduct	-80.64	
For >250 To 500, Deduct	-123.98	
For >500 To 1000, Deduct	-167.32	
For >1000, Deduct	-210.66	
26 56 19 00-0118 EA 19,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (General Electric ERL2 0 19XX 40 A GRAY).....	1,252.04	219.29
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For >50 To 100, Deduct	-62.60	
For >100 To 250, Deduct	-93.90	
For >250 To 500, Deduct	-145.54	
For >500 To 1000, Deduct	-197.18	
For >1000, Deduct	-248.82	
<b>26 56 19 00-0119 LED Roadway Lighting (Acuity AEL Autobahn) (26 56 19 00-0034)</b>		
<b>26 56 19 00-0120 Horizontal Tenon Mount, LED Cobra Head Street Lights (Acuity AEL Autobahn) (26 56 19 00-0119)</b>		
Note: UL wet listed. Includes 4,000K or 5,000K color temperature, 120-480 voltage, integral 10kV surge suppression, 0-10V dimming, die-cast extruded aluminum housing assembly and white, black, gray, graphite or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0121 EA 4,200 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 20ALEDE70).....	1,260.89	191.88
For >50 To 100, Deduct	-63.04	
For >100 To 250, Deduct	-94.57	
For >250 To 500, Deduct	-148.02	
For >500 To 1000, Deduct	-201.47	
For >1000, Deduct	-254.92	
26 56 19 00-0122 EA 6,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB0 30BLEDE70).....	1,553.14	197.36
For >50 To 100, Deduct	-77.66	
For >100 To 250, Deduct	-116.49	
For >250 To 500, Deduct	-184.27	
For >500 To 1000, Deduct	-252.06	
For >1000, Deduct	-319.85	
26 56 19 00-0123 EA 9,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 40BLEDE70).....	2,143.46	202.85
For >50 To 100, Deduct	-107.17	
For >100 To 250, Deduct	-160.76	
For >250 To 500, Deduct	-257.79	
For >500 To 1000, Deduct	-354.82	
For >1000, Deduct	-451.85	
26 56 19 00-0124 EA 13,500 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 60BLEDE70).....	2,738.69	210.85
For >50 To 100, Deduct	-136.93	
For >100 To 250, Deduct	-205.40	
For >250 To 500, Deduct	-331.79	
For >500 To 1000, Deduct	-458.19	
For >1000, Deduct	-584.58	
26 56 19 00-0125 EA 17,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Acuity AEL Autobahn ATB2 80BLEDE70).....	3,319.81	216.76
For >50 To 100, Deduct	-165.99	
For >100 To 250, Deduct	-248.99	
For >250 To 500, Deduct	-404.14	
For >500 To 1000, Deduct	-559.29	
For >1000, Deduct	-714.44	
<b>26 56 19 00-0126 LED Roadway Lighting (Leotek) (26 56 19 00-0034)</b>		
<b>26 56 19 00-0127 Horizontal Tenon Mount, LED Cobra Head Street Lights (Leotek) (26 56 19 00-0126)</b>		
Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, integral surge protector, die-cast and extruded aluminum housing assembly and gray powder coat finish. Excludes sensors.		
26 56 19 00-0128 EA Up To 3,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-XXX-WL).....	696.93	191.88
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.68	
For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
For >50 To 100, Deduct	-34.85	
For >100 To 250, Deduct	-52.27	
For >250 To 500, Deduct	-77.52	
For >500 To 1000, Deduct	-102.78	
For >1000, Deduct	-128.03	
26 56 19 00-0129 EA Up To 5,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-4M2-MV-NW-X-GY-1AMP-WL).....	711.33	193.98
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.68	
For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
For >50 To 100, Deduct	-35.57	
For >100 To 250, Deduct	-53.35	
For >250 To 500, Deduct	-79.22	
For >500 To 1000, Deduct	-105.08	
For >1000, Deduct	-130.95	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0130 EA Up To 5,950 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC1-6M2-MV-NW-X-GY-XXX-WL) .....	754.53	195.25
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.68	
For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
For >50 To 100, Deduct	-37.73	
For >100 To 250, Deduct	-56.59	
For >250 To 500, Deduct	-84.55	
For >500 To 1000, Deduct	-112.52	
For >1000, Deduct	-140.48	
26 56 19 00-0131 EA Up To 9,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC3-10M2-MV-NW-X-GY-XXX-WL) .....	867.32	202.85
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.68	
For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
For >50 To 100, Deduct	-43.37	
For >100 To 250, Deduct	-65.05	
For >250 To 500, Deduct	-98.27	
For >500 To 1000, Deduct	-131.50	
For >1000, Deduct	-164.72	
26 56 19 00-0132 EA Up To 11,450 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-12M2-MV-NW-X-GY-XXX-WL) .....	1,004.36	208.32
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.68	
For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
For >50 To 100, Deduct	-50.22	
For >100 To 250, Deduct	-75.33	
For >250 To 500, Deduct	-115.13	
For >500 To 1000, Deduct	-154.93	
For >1000, Deduct	-194.73	
26 56 19 00-0133 EA Up To 14,550 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC4-15M2-MV-NW-X-GY-XXX-WL) .....	1,011.12	211.70
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.68	
For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
For >50 To 100, Deduct	-50.56	
For >100 To 250, Deduct	-75.83	
For >250 To 500, Deduct	-115.81	
For >500 To 1000, Deduct	-155.78	
For >1000, Deduct	-195.75	
26 56 19 00-0134 EA Up To 16,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-18M2-MV-NW-X-GY-XXX-WL) .....	1,223.27	215.07
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.68	
For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
For >50 To 100, Deduct	-61.16	
For >100 To 250, Deduct	-91.75	
For >250 To 500, Deduct	-142.16	
For >500 To 1000, Deduct	-192.56	
For >1000, Deduct	-242.97	
26 56 19 00-0135 EA Up To 18,750 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-20M2-MV-NW-X-GY-XXX-WL) .....	1,280.51	219.29
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.68	
For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
For >50 To 100, Deduct	-64.03	
For >100 To 250, Deduct	-96.04	
For >250 To 500, Deduct	-149.10	
For >500 To 1000, Deduct	-202.16	
For >1000, Deduct	-255.22	
26 56 19 00-0136 EA Up To 22,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC7-24M2-MV-NW-X-GY-XXX-WL) .....	1,421.47	222.66
For LightGrid™ Wireless Outdoor Controller, Add	20.00	
For Twist Lock Shorting Cap, Add	9.68	
For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
For >50 To 100, Deduct	-71.07	
For >100 To 250, Deduct	-106.61	
For >250 To 500, Deduct	-166.55	
For >500 To 1000, Deduct	-226.49	
For >1000, Deduct	-286.43	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0137	EA	Up To 29,150 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® EC9-30M2-MV-NW-X-GY-XXX-WL) .....	1,519.74	226.04
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-75.99	
			For >100 To 250, Deduct	-113.98	
			For >250 To 500, Deduct	-178.67	
			For >500 To 1000, Deduct	-243.35	
			For >1000, Deduct	-308.04	
26 56	19 00-0138	EA	Up To 4,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-20F-MV-NW-X-GY-XXX-WL).....	796.74	193.98
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-39.84	
			For >100 To 250, Deduct	-59.76	
			For >250 To 500, Deduct	-89.89	
			For >500 To 1000, Deduct	-120.03	
			For >1000, Deduct	-150.17	
26 56	19 00-0139	EA	Up To 7,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-30F-MV-NW-X-GY-XXX-WL).....	869.89	199.05
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-43.49	
			For >100 To 250, Deduct	-65.24	
			For >250 To 500, Deduct	-98.78	
			For >500 To 1000, Deduct	-132.33	
			For >1000, Deduct	-165.87	
26 56	19 00-0140	EA	Up To 9,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-XXX-WL).....	934.43	202.85
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-46.72	
			For >100 To 250, Deduct	-70.08	
			For >250 To 500, Deduct	-106.66	
			For >500 To 1000, Deduct	-143.24	
			For >1000, Deduct	-179.82	
26 56	19 00-0141	EA	Up To 12,300 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-40F-MV-NW-X-GY-1AMP-WL).....	990.48	207.49
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-49.52	
			For >100 To 250, Deduct	-74.29	
			For >250 To 500, Deduct	-113.44	
			For >500 To 1000, Deduct	-152.59	
			For >1000, Deduct	-191.74	
26 56	19 00-0142	EA	Up To 13,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-60F-MV-NW-X-GY-XXX-WL).....	1,046.73	209.17
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-52.34	
			For >100 To 250, Deduct	-78.50	
			For >250 To 500, Deduct	-120.38	
			For >500 To 1000, Deduct	-162.26	
			For >1000, Deduct	-204.14	
26 56	19 00-0143	EA	Up To 17,700 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC1-80F-MV-NW-X-GY-XXX-WL).....	1,234.76	216.76
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-61.74	
			For >100 To 250, Deduct	-92.61	
			For >250 To 500, Deduct	-143.51	
			For >500 To 1000, Deduct	-194.41	
			For >1000, Deduct	-245.31	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Lighting	26 50	
Exterior Lighting	26 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0144	EA	Up To 19,800 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-90F-MV-NW-X-GY-XXX-WL) .....	1,387.59	220.98
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-69.38	
			For >100 To 250, Deduct	-104.07	
			For >250 To 500, Deduct	-162.40	
			For >500 To 1000, Deduct	-220.73	
			For >1000, Deduct	-279.06	
26 56	19 00-0145	EA	Up To 22,000 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-100F-MV-NW-X-GY-XXX-WL) .....	1,470.63	221.82
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-73.53	
			For >100 To 250, Deduct	-110.30	
			For >250 To 500, Deduct	-172.74	
			For >500 To 1000, Deduct	-235.18	
			For >1000, Deduct	-297.62	
26 56	19 00-0146	EA	Up To 26,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek GC2-120F-MV-NW-X-GY-XXX-WL) .....	1,550.93	224.35
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-77.55	
			For >100 To 250, Deduct	-116.32	
			For >250 To 500, Deduct	-182.65	
			For >500 To 1000, Deduct	-248.98	
			For >1000, Deduct	-315.31	
26 56	19 00-0147	EA	Up To 11,720 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-30H-MV-NW-X-GY-1AMP) .....	856.57	211.70
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-42.83	
			For >100 To 250, Deduct	-64.24	
			For >250 To 500, Deduct	-96.49	
			For >500 To 1000, Deduct	-128.73	
			For >1000, Deduct	-160.97	
26 56	19 00-0148	EA	Up To 15,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCM2-40H-MV-NW-X-GY-1AMP) .....	921.79	213.81
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-46.09	
			For >100 To 250, Deduct	-69.13	
			For >250 To 500, Deduct	-104.53	
			For >500 To 1000, Deduct	-139.93	
			For >1000, Deduct	-175.33	
26 56	19 00-0149	EA	Up To 4,180 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ0-15H-MV-NW-X-GY-XXX-WL) .....	669.81	193.56
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-33.49	
			For >100 To 250, Deduct	-50.24	
			For >250 To 500, Deduct	-74.05	
			For >500 To 1000, Deduct	-97.86	
			For >1000, Deduct	-121.67	
26 56	19 00-0150	EA	Up To 5,510 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCJ1-20H-MV-NW-X-GY-XXX-WL) .....	681.32	195.25
			For LightGrid™ Wireless Outdoor Controller, Add	20.00	
			For Twist Lock Shorting Cap, Add	9.68	
			For ANSI 7-wire Photocontrol Receptacle, Add	29.05	
			For Ripley Long-Life Twist Lock Photocontrol, Add	51.98	
			For >50 To 100, Deduct	-34.07	
			For >100 To 250, Deduct	-51.10	
			For >250 To 500, Deduct	-75.40	
			For >500 To 1000, Deduct	-99.71	
			For >1000, Deduct	-124.01	

**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56	19 00-0151	EA	Up To 7,430 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® G CJ2-20H-MV-NW-X-GY-1AMP-WL).....	735.67	199.05
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.68	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.05	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	51.98	
			<i>For &gt;50 To 100, Deduct</i>	-36.78	
			<i>For &gt;100 To 250, Deduct</i>	-55.18	
			<i>For &gt;250 To 500, Deduct</i>	-82.01	
			<i>For &gt;500 To 1000, Deduct</i>	-108.84	
			<i>For &gt;1000, Deduct</i>	-135.67	
26 56	19 00-0152	EA	Up To 16,400 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-60G-MV-NW-X-GY-XXX-WL).....	1,099.22	215.07
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.68	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.05	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	51.98	
			<i>For &gt;50 To 100, Deduct</i>	-54.96	
			<i>For &gt;100 To 250, Deduct</i>	-82.44	
			<i>For &gt;250 To 500, Deduct</i>	-126.65	
			<i>For &gt;500 To 1000, Deduct</i>	-170.86	
			<i>For &gt;1000, Deduct</i>	-215.06	
26 56	19 00-0153	EA	Up To 22,100 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL1-80G-MV-NW-X-GY-XXX-WL).....	1,413.69	221.82
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.68	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.05	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	51.98	
			<i>For &gt;50 To 100, Deduct</i>	-70.68	
			<i>For &gt;100 To 250, Deduct</i>	-106.03	
			<i>For &gt;250 To 500, Deduct</i>	-165.62	
			<i>For &gt;500 To 1000, Deduct</i>	-225.21	
			<i>For &gt;1000, Deduct</i>	-284.81	
26 56	19 00-0154	EA	Up To 22,900 Lumens, Horizontal Tenon Mount, LED Cobra Head Street Light (Leotek® GCL2-60G-MV-NW-X-GY-1AMP-WL).....	1,268.94	222.66
			<i>For LightGrid™ Wireless Outdoor Controller, Add</i>	20.00	
			<i>For Twist Lock Shorting Cap, Add</i>	9.68	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.05	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	51.98	
			<i>For &gt;50 To 100, Deduct</i>	-63.45	
			<i>For &gt;100 To 250, Deduct</i>	-95.17	
			<i>For &gt;250 To 500, Deduct</i>	-147.48	
			<i>For &gt;500 To 1000, Deduct</i>	-199.80	
			<i>For &gt;1000, Deduct</i>	-252.11	
26 56	19 00-0155	EA	Up To 5,484 Lumens, Horizontal Tenon Mount, LED Security Light (Leotek® SafeGuard™ SG1-01-MV-NW-5-GY).....	646.25	193.98
			<i>For Twist Lock Shorting Cap, Add</i>	9.68	
			<i>For ANSI 7-wire Photocontrol Receptacle, Add</i>	29.05	
			<i>For Ripley Long-Life Twist Lock Photocontrol, Add</i>	51.98	
			<i>For &gt;50 To 100, Deduct</i>	-32.31	
			<i>For &gt;100 To 250, Deduct</i>	-48.47	
			<i>For &gt;250 To 500, Deduct</i>	-71.08	
			<i>For &gt;500 To 1000, Deduct</i>	-93.69	
			<i>For &gt;1000, Deduct</i>	-116.31	
26 56	19 00-0156		LED, Area Fixtures <small>(26 56 19)</small>		
26 56	19 00-0157		Pole Mount, LED Area Fixtures <small>(26 56 19 00-0156)</small>		
26 56	19 00-0158		Pole Mount, Rectangular, LED Architectural Area Fixtures (Lithonia DSX) <small>(26 56 19 00-0157)</small>		
			Note: UL wet listed. Includes 4,000K color temperature, 480 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56	19 00-0159	EA	20 LEDs, 49 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,546.06	143.39
			<i>For &gt;50 To 100, Deduct</i>	-127.30	
			<i>For &gt;100 To 250, Deduct</i>	-190.95	
			<i>For &gt;250 To 500, Deduct</i>	-311.09	
			<i>For &gt;500 To 1000, Deduct</i>	-431.22	
			<i>For &gt;1000, Deduct</i>	-551.36	
26 56	19 00-0160	EA	40 LEDs, 89 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSXO LED).....	2,743.68	151.82
			<i>For &gt;50 To 100, Deduct</i>	-137.18	
			<i>For &gt;100 To 250, Deduct</i>	-205.78	
			<i>For &gt;250 To 500, Deduct</i>	-335.37	
			<i>For &gt;500 To 1000, Deduct</i>	-464.96	
			<i>For &gt;1000, Deduct</i>	-594.56	
26 56	19 00-0161	EA	80 LEDs, 188 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,958.16	168.68
			<i>For &gt;50 To 100, Deduct</i>	-147.91	
			<i>For &gt;100 To 250, Deduct</i>	-221.86	
			<i>For &gt;250 To 500, Deduct</i>	-361.34	
			<i>For &gt;500 To 1000, Deduct</i>	-500.81	
			<i>For &gt;1000, Deduct</i>	-640.28	
26 56	19 00-0162	EA	100 LEDs, 218 Watt, Pole Mount, LED Architectural Area Fixture (Lithonia DSX2 LED).....	2,975.03	177.11
			<i>For &gt;50 To 100, Deduct</i>	-148.75	
			<i>For &gt;100 To 250, Deduct</i>	-223.13	
			<i>For &gt;250 To 500, Deduct</i>	-363.02	
			<i>For &gt;500 To 1000, Deduct</i>	-502.92	
			<i>For &gt;1000, Deduct</i>	-642.81	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 56 19 00-0163	<b>Arm Mount, Rectangular, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDG)</b> <small>(26 56 19 00-0157)</small> Note: UL wet listed. Includes 4,000K or 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type III Medium optic. Excludes sensors. All fixtures without the backlight control shield are DLC qualified		
26 56 19 00-0164	EA 40 LEDs, 47 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) ..... <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	1,470.91 26.70 47.24 107.03 267.03 -73.55 -110.32 -176.27 -242.23 -308.18	151.82
26 56 19 00-0165	EA 60 LEDs, 68 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) ..... <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	1,768.16 26.70 48.09 107.03 267.03 -88.41 -132.61 -213.01 -293.40 -373.80	160.24
26 56 19 00-0166	EA 80 LEDs, 90 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) ..... <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	2,177.94 26.70 48.93 107.03 267.03 -108.90 -163.35 -263.81 -364.27 -464.73	168.68
26 56 19 00-0167	EA 100 LEDs, 111 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) ..... <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	2,475.19 26.70 49.77 107.03 267.03 -123.76 -185.64 -300.54 -415.45 -530.35	177.11
26 56 19 00-0168	EA 120 LEDs, 132 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) ..... <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	2,772.43 26.70 50.62 107.03 267.03 -138.62 -207.93 -337.28 -466.62 -595.96	185.55
26 56 19 00-0169	EA 140 LEDs, 157 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) ..... <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	3,159.32 26.70 51.46 107.03 267.03 -157.97 -236.95 -385.22 -533.48 -681.75	193.98
26 56 19 00-0170	EA 160 LEDs, 179 Watt, Arm Mount, Rectangular, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDG) ..... <i>For Backlight Shielding, Add</i> <i>For Type II Medium Optic, Add</i> <i>For 480 Volt, Add</i> <i>For Multi-Level Drive Currents, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1000, Deduct</i> <i>For &gt;1000, Deduct</i>	3,456.56 26.70 52.30 107.03 267.03 -172.83 -259.24 -421.95 -584.66 -747.36	202.42

26 56 19 00-0171	<b>Direct Or Arm Mount, Rectangular, High Output, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EHO)</b> <small>(26 56 19 00-0157)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 700mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
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**26 Electrical**  
**26 50 Lighting**  
**26 56 Exterior Lighting**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0172	EA		120 LEDs, 267 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	2,565.41	185.55
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For Bird Spikes, Add</i>	54.00	
			<i>For 5,000K Color Temperature, Add</i>	56.24	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For 480 Volt, Add</i>	101.23	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For 1,000mA Driver, Add</i>	188.98	
			<i>For &gt;50 To 100, Deduct</i>	-128.27	
			<i>For &gt;100 To 250, Deduct</i>	-192.41	
			<i>For &gt;250 To 500, Deduct</i>	-311.40	
			<i>For &gt;500 To 1000, Deduct</i>	-430.39	
			<i>For &gt;1000, Deduct</i>	-549.38	
26 56 19 00-0173	EA		240 LEDs, 533 System Watts, Direct Or Arm Mount, Rectangular, High Output, LED Area Fixture (CREE® BetaLED® Edge® ARE-EHO).....	4,303.17	227.72
			<i>For 3 Or 7-Pin NEMA Photocell Receptacle, Add</i>	22.49	
			<i>For 5,000K Color Temperature, Add</i>	56.24	
			<i>For Fuse, Add</i>	67.48	
			<i>For 0 To 10 Volt Dimming, Add</i>	67.48	
			<i>For Bird Spikes, Add</i>	79.47	
			<i>For Multi-Level, Add</i>	146.21	
			<i>For 1,000mA Driver, Add</i>	188.96	
			<i>For 480 Volt, Add</i>	202.45	
			<i>For &gt;50 To 100, Deduct</i>	-215.16	
			<i>For &gt;100 To 250, Deduct</i>	-322.74	
			<i>For &gt;250 To 500, Deduct</i>	-526.51	
			<i>For &gt;500 To 1000, Deduct</i>	-730.28	
			<i>For &gt;1000, Deduct</i>	-934.05	
26 56 19 00-0174			Wall Mount, LED Area Fixtures (26 56 19 00-0156)		
26 56 19 00-0175			Wall Mount, LED Architectural Area Fixtures (Lithonia DSXW) (26 56 19 00-0174) Note: UL wet listed. Includes 277 voltage, 700mA remote driver, die-cast extruded aluminum housing assembly and white, black, aluminum or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0176	EA		20 LEDs, 47 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED) .....	1,156.14	143.39
			<i>For &gt;50 To 100, Deduct</i>	-57.81	
			<i>For &gt;100 To 250, Deduct</i>	-86.71	
			<i>For &gt;250 To 500, Deduct</i>	-137.35	
			<i>For &gt;500 To 1000, Deduct</i>	-187.99	
			<i>For &gt;1000, Deduct</i>	-238.62	
26 56 19 00-0177	EA		30 LEDs, 71 Watt, 4000K CCT, Wall Mount, LED Architectural Area Fixture (Lithonia DSXW2 LED) .....	1,189.88	160.24
			<i>For &gt;50 To 100, Deduct</i>	-59.49	
			<i>For &gt;100 To 250, Deduct</i>	-89.24	
			<i>For &gt;250 To 500, Deduct</i>	-140.72	
			<i>For &gt;500 To 1000, Deduct</i>	-192.20	
			<i>For &gt;1000, Deduct</i>	-243.69	
26 56 19 00-0178			Surface Mount, LED Parking Structure Fixtures (26 56 19 00-0156)		
26 56 19 00-0179			Surface Mount, Rectangular, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-EDG) (26 56 19 00-0178) Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0180	EA		40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,303.07	151.82
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For &gt;50 To 100, Deduct</i>	-65.15	
			<i>For &gt;100 To 250, Deduct</i>	-97.73	
			<i>For &gt;250 To 500, Deduct</i>	-155.29	
			<i>For &gt;500 To 1000, Deduct</i>	-212.86	
			<i>For &gt;1000, Deduct</i>	-270.42	
26 56 19 00-0181	EA		60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,600.32	160.24
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For &gt;50 To 100, Deduct</i>	-80.02	
			<i>For &gt;100 To 250, Deduct</i>	-120.02	
			<i>For &gt;250 To 500, Deduct</i>	-192.03	
			<i>For &gt;500 To 1000, Deduct</i>	-264.03	
			<i>For &gt;1000, Deduct</i>	-336.03	
26 56 19 00-0182	EA		80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	1,897.56	168.68
			<i>For Multi-Level Drive Currents, Add</i>	267.03	
			<i>For &gt;50 To 100, Deduct</i>	-94.88	
			<i>For &gt;100 To 250, Deduct</i>	-142.32	
			<i>For &gt;250 To 500, Deduct</i>	-228.76	
			<i>For &gt;500 To 1000, Deduct</i>	-315.20	
			<i>For &gt;1000, Deduct</i>	-401.65	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0183 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-EDG).....	2,194.81	177.11
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-109.74	
For >100 To 250, Deduct	-164.61	
For >250 To 500, Deduct	-265.50	
For >500 To 1000, Deduct	-366.38	
For >1000, Deduct	-467.26	
<b>26 56 19 00-0184 Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® Edge® PKG-304)</b> <small>(26 56 19 00-0178)</small>		
Note: Direct or pendant mount. UL wet listed. Includes 5,700K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0185 EA 40 LEDs, 47 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,257.29	151.82
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-62.86	
For >100 To 250, Deduct	-94.30	
For >250 To 500, Deduct	-149.57	
For >500 To 1000, Deduct	-204.84	
For >1000, Deduct	-260.12	
26 56 19 00-0186 EA 60 LEDs, 68 Watt, Surface Mount, Square, LED Parking Structure Fixture (CREE® BetaLED® Edge® PKG-304).....	1,386.69	160.24
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-69.33	
For >100 To 250, Deduct	-104.00	
For >250 To 500, Deduct	-165.32	
For >500 To 1000, Deduct	-226.65	
For >1000, Deduct	-287.97	
<b>26 56 19 00-0187 Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VG)</b> <small>(26 56 19 00-0178)</small>		
Note: UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0188 EA 3,700 Lumens, 50 Watt, Surface Mount, Square, LED Parking Structure Fixtures (CREE® BetaLED® VGADMSMA40KUL).....	1,056.37	151.82
For >50 To 100, Deduct	-52.82	
For >100 To 250, Deduct	-79.23	
For >250 To 500, Deduct	-124.46	
For >500 To 1000, Deduct	-169.68	
For >1000, Deduct	-214.91	
<b>26 56 19 00-0189 Surface Mount, Rectangular, LED Parking Structure Fixtures (Philips Gardco ELG)</b> <small>(26 56 19 00-0178)</small>		
Note: Direct or pendant mount. UL wet listed. Includes 4,000K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and aluminum finish. Excludes sensors.		
26 56 19 00-0190 EA 70 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,046.80	160.24
For >50 To 100, Deduct	-102.34	
For >100 To 250, Deduct	-153.51	
For >250 To 500, Deduct	-247.84	
For >500 To 1000, Deduct	-342.17	
For >1000, Deduct	-436.49	
26 56 19 00-0191 EA 110 Watt, Surface Mount, Rectangular, LED Parking Structure Fixture (Philips Gardco ELG).....	2,080.54	177.11
For >50 To 100, Deduct	-104.03	
For >100 To 250, Deduct	-156.04	
For >250 To 500, Deduct	-251.21	
For >500 To 1000, Deduct	-346.38	
For >1000, Deduct	-441.55	
<b>26 56 19 00-0192 Surface Mount, LED Canopy Fixtures</b> <small>(26 56 19 00-0156)</small>		
<b>26 56 19 00-0193 Surface Mount, Rectangular, LED Canopy Fixtures (CREE® BetaLED® Edge® CAN-EDG)</b> <small>(26 56 19 00-0192)</small>		
Note: Direct or pendant mount. UL wet listed. Includes 6,000K color temperature, 120-480 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0194 EA 40 LEDs, 47 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,505.24	151.82
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-75.26	
For >100 To 250, Deduct	-112.89	
For >250 To 500, Deduct	-180.56	
For >500 To 1000, Deduct	-248.24	
For >1000, Deduct	-315.91	
26 56 19 00-0195 EA 60 LEDs, 68 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	1,802.49	160.24
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-90.12	
For >100 To 250, Deduct	-135.19	
For >250 To 500, Deduct	-217.30	
For >500 To 1000, Deduct	-299.41	
For >1000, Deduct	-381.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0196 EA 80 LEDs, 90 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,099.74	168.68
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-104.99	
For >100 To 250, Deduct	-157.48	
For >250 To 500, Deduct	-254.03	
For >500 To 1000, Deduct	-350.59	
For >1000, Deduct	-447.14	
26 56 19 00-0197 EA 100 LEDs, 111 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,396.99	177.11
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-119.85	
For >100 To 250, Deduct	-179.77	
For >250 To 500, Deduct	-290.77	
For >500 To 1000, Deduct	-401.76	
For >1000, Deduct	-512.75	
26 56 19 00-0198 EA 120 LEDs, 132 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	2,694.23	185.55
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-134.71	
For >100 To 250, Deduct	-202.07	
For >250 To 500, Deduct	-327.50	
For >500 To 1000, Deduct	-452.93	
For >1000, Deduct	-578.37	
26 56 19 00-0199 EA 140 LEDs, 157 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,104.01	193.98
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-155.20	
For >100 To 250, Deduct	-232.80	
For >250 To 500, Deduct	-378.30	
For >500 To 1000, Deduct	-523.80	
For >1000, Deduct	-669.30	
26 56 19 00-0200 EA 160 LEDs, 179 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,401.25	202.42
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-170.06	
For >100 To 250, Deduct	-255.09	
For >250 To 500, Deduct	-415.04	
For >500 To 1000, Deduct	-574.98	
For >1000, Deduct	-734.92	
26 56 19 00-0201 EA 200 LEDs, 221 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	3,995.74	219.29
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-199.79	
For >100 To 250, Deduct	-299.68	
For >250 To 500, Deduct	-488.50	
For >500 To 1000, Deduct	-677.33	
For >1000, Deduct	-866.15	
26 56 19 00-0202 EA 240 LEDs, 264 Watt, Surface Mount, Rectangular, LED Canopy Fixture (CREE® BetaLED® Edge® CAN-EDG).....	4,573.36	227.72
For Multi-Level Drive Currents, Add	267.03	
For >50 To 100, Deduct	-228.67	
For >100 To 250, Deduct	-343.00	
For >250 To 500, Deduct	-560.28	
For >500 To 1000, Deduct	-777.57	
For >1000, Deduct	-994.85	
<b>26 56 19 00-0203 Surface Mount, Square, LED Canopy/Soffit Fixtures (CREE® BetaLED® CPY250)</b> <small>(26 56 19 00-0192)</small> Note: UL wet listed. Includes 5,700K color temperature, 120-277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0204 EA 8,000 Lumens, 82 Watt, Surface Mount, Square, LED Canopy/Soffit Fixture (CREE® BetaLED® CPY250) .....	1,056.43	168.68
For >50 To 100, Deduct	-52.82	
For >100 To 250, Deduct	-79.23	
For >250 To 500, Deduct	-123.62	
For >500 To 1000, Deduct	-168.01	
For >1000, Deduct	-212.39	
<b>26 56 19 00-0205 Recessed Mount, LED Soffit Fixtures</b> <small>(26 56 19 00-0156)</small>		
<b>26 56 19 00-0206 Recessed Mount, Square, LED Soffit Fixtures (CREE® BetaLED® SFT-304)</b> <small>(26 56 19 00-0205)</small> Note: UL wet listed. Includes 5,700K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0207 EA 40 LEDs, 47 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,280.18	151.82
For >50 To 100, Deduct	-64.01	
For >100 To 250, Deduct	-96.01	
For >250 To 500, Deduct	-152.43	
For >500 To 1000, Deduct	-208.85	
For >1000, Deduct	-265.27	
26 56 19 00-0208 EA 60 LEDs, 68 Watt, Recessed Mount, Square, LED Soffit Fixture (CREE® BetaLED® SFT-304).....	1,409.58	160.24
For >50 To 100, Deduct	-70.48	
For >100 To 250, Deduct	-105.72	
For >250 To 500, Deduct	-168.19	
For >500 To 1000, Deduct	-230.65	
For >1000, Deduct	-293.12	
<b>26 56 19 00-0209 Surface Mount, LED Area Fixtures</b> <small>(26 56 19 00-0156)</small>		





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 56 19 00-0210</b> Surface Mount, Square, LED Multi-Purpose Area Fixtures (LSI Industries® Crossover® XPG) <small>(26 56 19 00-0209)</small> Note: UL wet listed. Includes 5,300K color temperature, 120/277 voltage, 350mA driver, die-cast extruded aluminum housing assembly and white, black or silver powder coat finish. Excludes sensors.		
26 56 19 00-0211 EA 50 LEDs, 59 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	708.10	151.82
For >50 To 100, Deduct	-35.41	
For >100 To 250, Deduct	-53.11	
For >250 To 500, Deduct	-80.92	
For >500 To 1000, Deduct	-108.74	
For >1000, Deduct	-136.55	
26 56 19 00-0212 EA 50 LEDs, 59 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,504.62	151.82
For >50 To 100, Deduct	-75.23	
For >100 To 250, Deduct	-112.85	
For >250 To 500, Deduct	-180.49	
For >500 To 1000, Deduct	-248.13	
For >1000, Deduct	-315.77	
26 56 19 00-0213 EA 68 LEDs, 79 Watt, Surface Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,266.68	168.68
For >50 To 100, Deduct	-63.33	
For >100 To 250, Deduct	-95.00	
For >250 To 500, Deduct	-149.90	
For >500 To 1000, Deduct	-204.80	
For >1000, Deduct	-259.70	
26 56 19 00-0214 EA 68 LEDs, 79 Watt, Pendant Mount, Square, LED Multi-Purpose Area Fixture (LSI Industries® Crossover® XPG).....	1,553.46	168.68
For >50 To 100, Deduct	-77.67	
For >100 To 250, Deduct	-116.51	
For >250 To 500, Deduct	-185.75	
For >500 To 1000, Deduct	-254.99	
For >1000, Deduct	-324.23	
<b>26 56 19 00-0215</b> Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour®) <small>(26 56 19 00-0209)</small> Note: Wall, inverted, post, bollard, floodlight trunnion, or floodlight knuckle mount. UL wet listed. Includes 5,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0216 EA 13 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR1A).....	228.72	55.38
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
For >50 To 100, Deduct	-11.44	
For >100 To 250, Deduct	-17.15	
For >250 To 500, Deduct	-26.28	
For >500 To 1000, Deduct	-35.41	
For >1000, Deduct	-44.54	
26 56 19 00-0217 EA 20 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR2A).....	257.66	55.38
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
For >50 To 100, Deduct	-12.88	
For >100 To 250, Deduct	-19.32	
For >250 To 500, Deduct	-29.90	
For >500 To 1000, Deduct	-40.48	
For >1000, Deduct	-51.05	
26 56 19 00-0218 EA 30 Watt, Surface Mount, LED Multi-Purpose Area Fixture (Lumark Crosstour® XTOR3A).....	312.78	55.38
For Knuckle Mount Or Trunnion Mount Base, Add	45.00	
For >50 To 100, Deduct	-15.64	
For >100 To 250, Deduct	-23.46	
For >250 To 500, Deduct	-36.79	
For >500 To 1000, Deduct	-50.12	
For >1000, Deduct	-63.45	
<b>26 56 19 00-0219</b> Surface Mount, LED Facade Fixtures <small>(26 56 19 00-0156)</small>		
<b>26 56 19 00-0220</b> Surface Mount, LED Facade Fixtures (lumenpulse™ lumenfacade™) <small>(26 56 19 00-0219)</small>		
26 56 19 00-0221 EA 12" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	775.20	64.65
For >50 To 100, Deduct	-38.76	
For >100 To 250, Deduct	-58.14	
For >250 To 500, Deduct	-94.44	
For >500 To 1000, Deduct	-130.74	
For >1000, Deduct	-167.04	
26 56 19 00-0222 EA 24" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,249.26	59.03
For >50 To 100, Deduct	-62.46	
For >100 To 250, Deduct	-93.69	
For >250 To 500, Deduct	-154.05	
For >500 To 1000, Deduct	-214.40	
For >1000, Deduct	-274.76	
26 56 19 00-0223 EA 36" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,588.60	49.19
For >50 To 100, Deduct	-79.43	
For >100 To 250, Deduct	-119.15	
For >250 To 500, Deduct	-196.82	
For >500 To 1000, Deduct	-274.49	
For >1000, Deduct	-352.16	
26 56 19 00-0224 EA 48" Length, Fixed Surface Mount, LED Façade Fixture (lumenpulse™ lumenfacade™).....	1,927.92	39.36
For >50 To 100, Deduct	-96.40	
For >100 To 250, Deduct	-144.59	
For >250 To 500, Deduct	-239.58	
For >500 To 1000, Deduct	-334.58	
For >1000, Deduct	-429.57	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0225			Post Top, LED Area Fixtures <small>(26 56 19 00-0156)</small>		
26 56 19 00-0226			Post Top, LED Area Fixtures (Cooper Lighting Invue® MSA) <small>(26 56 19 00-0225)</small> Note: UL wet listed. Includes 4,000K color temperature, 120-480 voltage, 350mA remote driver, die-cast extruded aluminum housing assembly and white, black, grey, dark platinum, graphite metallic or bronze powder coat finish. Excludes sensors.		
26 56 19 00-0227	EA		1,800 Lumens, 27 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO1).....	2,200.82	231.94
			<i>For &gt;50 To 100, Deduct</i>	-110.04	
			<i>For &gt;100 To 250, Deduct</i>	-165.06	
			<i>For &gt;250 To 500, Deduct</i>	-263.51	
			<i>For &gt;500 To 1000, Deduct</i>	-361.95	
			<i>For &gt;1000, Deduct</i>	-460.39	
26 56 19 00-0228	EA		3,400 Lumens, 54 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO2).....	2,422.44	231.94
			<i>For &gt;50 To 100, Deduct</i>	-121.12	
			<i>For &gt;100 To 250, Deduct</i>	-181.68	
			<i>For &gt;250 To 500, Deduct</i>	-291.21	
			<i>For &gt;500 To 1000, Deduct</i>	-400.73	
			<i>For &gt;1000, Deduct</i>	-510.26	
26 56 19 00-0229	EA		77 Watt, Post Top Mount, Acorn Style LED Area Fixture (Cooper Lighting Invue® MSA-CO3) .....	2,597.63	231.94
			<i>For &gt;50 To 100, Deduct</i>	-129.88	
			<i>For &gt;100 To 250, Deduct</i>	-194.82	
			<i>For &gt;250 To 500, Deduct</i>	-313.11	
			<i>For &gt;500 To 1000, Deduct</i>	-431.39	
			<i>For &gt;1000, Deduct</i>	-549.68	
26 56 19 00-0230			Post Top, LED Area Fixtures (General Electric EPAS) <small>(26 56 19 00-0225)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black, green or bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0231	EA		3,200 Lumens, 45 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 E5/E3) .....	2,580.91	231.94
			<i>For &gt;50 To 100, Deduct</i>	-129.05	
			<i>For &gt;100 To 250, Deduct</i>	-193.57	
			<i>For &gt;250 To 500, Deduct</i>	-311.02	
			<i>For &gt;500 To 1000, Deduct</i>	-428.46	
			<i>For &gt;1000, Deduct</i>	-545.91	
26 56 19 00-0232	EA		6,515 Lumens, 80 Watt, Post Top Mount, Acorn Style LED Area Fixture (General Electric EPAS 0 C5/C3).....	2,637.85	231.94
			<i>For &gt;50 To 100, Deduct</i>	-131.89	
			<i>For &gt;100 To 250, Deduct</i>	-197.84	
			<i>For &gt;250 To 500, Deduct</i>	-318.13	
			<i>For &gt;500 To 1000, Deduct</i>	-438.43	
			<i>For &gt;1000, Deduct</i>	-558.72	
26 56 19 00-0233			Post Top, LED Area Fixtures (General Electric EPTC) <small>(26 56 19 00-0225)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0234	EA		3,200 Lumens, 45 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 E5/E3) .....	1,809.97	231.94
			<i>For &gt;50 To 100, Deduct</i>	-90.50	
			<i>For &gt;100 To 250, Deduct</i>	-135.75	
			<i>For &gt;250 To 500, Deduct</i>	-214.65	
			<i>For &gt;500 To 1000, Deduct</i>	-293.55	
			<i>For &gt;1000, Deduct</i>	-372.45	
26 56 19 00-0235	EA		6,150 Lumens, 80 Watt, Post Top Mount, Contemporary Twin Support Style LED Area Fixture (General Electric EPTC 0 C5/C3).....	1,895.19	231.94
			<i>For &gt;50 To 100, Deduct</i>	-94.76	
			<i>For &gt;100 To 250, Deduct</i>	-142.14	
			<i>For &gt;250 To 500, Deduct</i>	-225.30	
			<i>For &gt;500 To 1000, Deduct</i>	-308.46	
			<i>For &gt;1000, Deduct</i>	-391.63	
26 56 19 00-0236			Post Top, LED Area Fixtures (General Electric EPST) <small>(26 56 19 00-0225)</small> Note: UL wet listed. Includes 4,100K color temperature, 120-480 voltage, die-cast extruded aluminum housing assembly and black or dark bronze powder coat finish. Includes photocontrol sensor.		
26 56 19 00-0237	EA		3,135 Lumens, 45 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 E5/E3) .....	1,422.61	231.94
			<i>For &gt;50 To 100, Deduct</i>	-71.13	
			<i>For &gt;100 To 250, Deduct</i>	-106.70	
			<i>For &gt;250 To 500, Deduct</i>	-166.23	
			<i>For &gt;500 To 1000, Deduct</i>	-225.76	
			<i>For &gt;1000, Deduct</i>	-285.30	
26 56 19 00-0238	EA		6,115 Lumens, 80 Watt, Post Top Mount, Utility Carriage Style LED Area Fixture (General Electric EPST 0 C5/C3) .....	1,507.83	231.94
			<i>For &gt;50 To 100, Deduct</i>	-75.39	
			<i>For &gt;100 To 250, Deduct</i>	-113.09	
			<i>For &gt;250 To 500, Deduct</i>	-176.88	
			<i>For &gt;500 To 1000, Deduct</i>	-240.68	
			<i>For &gt;1000, Deduct</i>	-304.47	
26 56 19 00-0239			Post Top, LED Area Fixtures (CREE® BetaLED® Edge® ARE-EDR) <small>(26 56 19 00-0225)</small> Note: UL wet listed. Includes 4,000K color temperature, 120/277 voltage, die-cast extruded aluminum housing assembly and white, black, silver or bronze powder coat finish. Includes Type V Medium optic. Excludes sensors.		



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Lighting</b>	<b>26 50</b>	
<b>Exterior Lighting</b>	<b>26 56</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 19 00-0240 EA 13,800 Lumens, 130 Watt, Post Top Mount, LED Area Fixture (CREE® BetaLED® Edge® ARE-EDR).....	3,370.65	231.94
For >50 To 100, Deduct	-168.53	
For >100 To 250, Deduct	-252.80	
For >250 To 500, Deduct	-409.73	
For >500 To 1000, Deduct	-566.67	
For >1000, Deduct	-723.60	
<b>26 56 19 00-0241 LED Retrofit For Post Top, Traditional Area Fixtures (CREE® BetaLED® BXRA) (26 56 19 00-0225)</b>		
Note: Includes 2,700K or 4,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 56 19 00-0242 EA LED Retrofit For Post Top, Holophane® Utility Granville Acorn Area Fixtures (CREE® BetaLED® BXRAH53) .....	949.82	126.52
For 0 To 10 Volt Dimming, Add	67.48	
For >50 To 100, Deduct	-47.49	
For >100 To 250, Deduct	-71.24	
For >250 To 500, Deduct	-112.40	
For >500 To 1000, Deduct	-153.57	
For >1000, Deduct	-194.73	
<b>26 56 19 00-0243 LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) (26 56 19 00-0225)</b>		
Note: Includes 3,000K color temperature and 120/277 voltage retrofit assembly. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling.		
26 56 19 00-0244 EA LED Retrofit For Post Top, Decorative Area Fixtures (CREE® DPT) .....	589.81	26.99
For Backlight Control Shield, Add	45.55	
For >50 To 100, Deduct	-29.49	
For >100 To 250, Deduct	-44.24	
For >250 To 500, Deduct	-71.03	
For >500 To 1000, Deduct	-97.82	
For >1000, Deduct	-124.61	
<b>26 56 19 00-0245 Surface Mount, LED Strip Fixtures (Sylvania) (26 56 19 00-0156)</b>		
26 56 19 00-0246 EA 4' Long, 5,200 Lumens, 40 Watt, Vapor Tight Dimmable LED Fixture (Sylvania VAPOR1B/040UNVD840/48EC/GR/D) .....	537.41	51.44
For >50 To 100, Deduct	-26.87	
For >100 To 250, Deduct	-40.31	
For >250 To 500, Deduct	-65.24	
For >500 To 1000, Deduct	-90.18	
For >1000, Deduct	-115.12	
<b>26 56 21 HID Exterior Lighting (26 56)</b>		
<b>26 56 21 00-0001 High Mast Fixtures (26 56 21)</b>		
<b>26 56 21 00-0002 Metal Halide, High Mast Fixtures (26 56 21 00-0001)</b>		
26 56 21 00-0003 EA 400 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux .....	2,001.93	208.80
26 56 21 00-0004 EA 400 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....	2,136.01	208.80
26 56 21 00-0005 EA 750 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux .....	2,125.57	238.55
26 56 21 00-0006 EA 750 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....	2,206.02	238.55
26 56 21 00-0007 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type V) As Manufactured By Metrolux .....	2,245.32	298.19
26 56 21 00-0008 EA 1,000 W High Mast Metal Halide Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....	2,325.77	298.19
<b>26 56 21 00-0009 High Pressure Sodium, High Mast Fixtures (26 56 21 00-0001)</b>		
26 56 21 00-0010 EA 400 W High Mast HPS Fixture (VA 25 Type V) As Manufactured By Metrolux.....	2,066.56	208.80
26 56 21 00-0011 EA 400 W High Mast HPS Fixture (VA 25 Type VS, VF 1 And 3) As Manufactured By Metrolux .....	2,147.01	208.80
26 56 21 00-0012 EA 600 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux .....	2,493.13	220.73
26 56 21 00-0013 EA 750 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux .....	2,557.21	238.55
26 56 21 00-0014 EA 1,000 Watt High Mast HPS Fixture (VA 25 Type V, VS, VF 1 And 3) As Manufactured By Metrolux .....	2,717.17	298.19
<b>26 56 21 00-0015 HID, Pole Mounted (26 56 21)</b>		
<b>26 56 21 00-0016 Metal Halide, Pole Mounted (26 56 21 00-0015)</b>		
26 56 21 00-0017 EA 175 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....	744.15	340.48
26 56 21 00-0018 EA 250 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....	830.91	369.59
26 56 21 00-0019 EA 400 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....	955.04	397.58
26 56 21 00-0020 EA 1,000 Watt Metal Halide, Enclosed And Gasketed, Exterior Roadway Fixture .....	1,237.81	465.96
<b>26 56 21 00-0021 High Pressure Sodium, Pole Mounted (26 56 21 00-0015)</b>		
26 56 21 00-0022 EA 100 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	912.69	397.58
26 56 21 00-0023 EA 150 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	937.73	397.58
26 56 21 00-0024 EA 175 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	980.33	397.58
26 56 21 00-0025 EA 250 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	1,088.24	397.58
26 56 21 00-0026 EA 400 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	1,257.33	397.58
26 56 21 00-0027 EA 1,000 Watt High Pressure Sodium, Enclosed And Gasketed, Exterior Roadway Fixture .....	1,204.40	397.58



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>26 56 21 00-0028</b>	<b>Low Pressure Sodium, Pole Mounted</b> <small>(26 56 21 00-0015)</small>		
26 56 21 00-0029	EA 135 Watt Low Pressure Sodium Exterior Roadway Fixture, Enclosed And Gasketed .....	757.81	216.29
26 56 21 00-0030	EA 135 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed .....	872.50	318.06
26 56 21 00-0031	EA 180 Watt Low Pressure Sodium Fixture, Enclosed And Gasketed .....	998.39	318.06
<b>26 56 21 00-0032</b>	<b>Metal Halide, Area Fixtures</b> <small>(26 56 21)</small>		
<b>26 56 21 00-0033</b>	<b>Metal Halide, Pole Mount, Area Fixtures</b> <small>(26 56 21 00-0032)</small>		
	Note: Includes pulse start ballast.		
26 56 21 00-0034	EA 150 Watt, Metal Halide Area Fixture, Pole Mount .....	1,221.44	209.30
26 56 21 00-0035	EA 175 Watt, Metal Halide Area Fixture, Pole Mount .....	1,340.56	230.22
26 56 21 00-0036	EA 250 Watt, Metal Halide Area Fixture, Pole Mount .....	1,481.51	251.15
26 56 21 00-0037	EA 400 Watt, Metal Halide Area Fixture, Pole Mount .....	1,575.03	293.01
<b>26 56 21 00-0038</b>	<b>High Pressure Sodium, Area Fixtures</b> <small>(26 56 21)</small>		
<b>26 56 21 00-0039</b>	<b>Pole Mount, High Pressure Sodium Area Fixtures</b> <small>(26 56 21 00-0038)</small>		
26 56 21 00-0040	EA 100 Watt, High Pressure Sodium Area Fixture, Pole Mount .....	1,012.82	167.43
26 56 21 00-0041	EA 150 Watt, High Pressure Sodium Area Fixture, Pole Mount .....	1,110.35	209.30
26 56 21 00-0042	EA 250 Watt, High Pressure Sodium Area Fixture, Pole Mount .....	1,211.59	251.15
26 56 21 00-0043	EA 400 Watt, High Pressure Sodium Area Fixture, Pole Mount .....	1,285.79	293.01
<b>26 56 21 00-0044</b>	<b>Surface Mounted, Rectangular Exterior Area Fixture</b> <small>(26 56 21)</small>		
<b>26 56 21 00-0045</b>	<b>Metal Halide, Surface Mounted, Rectangular Exterior Area Fixture</b> <small>(26 56 21 00-0044)</small>		
26 56 21 00-0046	EA 175 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	708.66	318.06
26 56 21 00-0047	EA 250 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	797.56	357.82
26 56 21 00-0048	EA 400 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	937.05	397.58
26 56 21 00-0049	EA 1,000 Watt Metal Halide, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	1,221.09	465.96
<b>26 56 21 00-0050</b>	<b>High Pressure Sodium, Surface Mounted, Rectangular Exterior Area Fixture</b> <small>(26 56 21 00-0044)</small>		
26 56 21 00-0051	EA 70 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	664.62	271.94
26 56 21 00-0052	EA 100 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	718.17	289.44
26 56 21 00-0053	EA 150 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture (LumaPro).....	770.90	305.34
26 56 21 00-0054	EA 175 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	797.75	318.06
26 56 21 00-0055	EA 250 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	880.84	357.82
26 56 21 00-0056	EA 400 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	949.67	397.58
26 56 21 00-0057	EA 1,000 Watt High Pressure Sodium, Surface Mounted, Enclosed And Gasketed, Rectangular Exterior Area Fixture .....	1,323.69	465.96
<b>26 56 21 00-0058</b>	<b>Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures</b> <small>(26 56 21)</small>		
<b>26 56 21 00-0059</b>	<b>High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures</b> <small>(26 56 21 00-0058)</small>		
	Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0060	EA 35 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	882.05	214.69
26 56 21 00-0061	EA 50 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	918.01	238.55
26 56 21 00-0062	EA 70 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	984.66	271.94
26 56 21 00-0063	EA 100 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,013.36	289.44
26 56 21 00-0064	EA 150 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,043.43	305.34
26 56 21 00-0065	EA 175 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,092.94	318.06
26 56 21 00-0066	EA 250 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,196.88	357.82
26 56 21 00-0067	EA 400 Watt High Pressure Sodium, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture.....	1,444.56	397.58
<b>26 56 21 00-0068</b>	<b>Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixtures</b> <small>(26 56 21 00-0058)</small>		
	Note: Includes cast aluminum powder coated housing, polycarbonate lens and tamperproof screws.		
26 56 21 00-0069	EA 50 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	971.23	238.55
26 56 21 00-0070	EA 70 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	1,029.83	271.94
26 56 21 00-0071	EA 100 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	1,066.02	289.44
26 56 21 00-0072	EA 150 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	1,112.35	305.34
26 56 21 00-0073	EA 175 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	1,138.18	318.06
26 56 21 00-0074	EA 250 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	1,244.47	357.82
26 56 21 00-0075	EA 400 Watt Metal Halide, Vandal Resistant, Surface Mounted, Rectangular Exterior Area Fixture .....	1,570.93	397.58
<b>26 56 21 00-0076</b>	<b>Wall Packs</b> <small>(26 56 21)</small>		
<b>26 56 21 00-0077</b>	<b>Non-Cutoff, Polycarbonate Lens, Mini Wall Packs</b> <small>(26 56 21 00-0076)</small>		
	Note: Polycarbonate body and aluminum reflector. 11" x 6-1/2" x 5-1/4". Lithonia TWS.		
26 56 21 00-0078	EA 13 Watt Compact Fluorescent, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack .....	413.05	76.91



<b>Electrical</b>	<b>26</b>	
Lighting	26 50	26
Exterior Lighting	26 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0079 EA 50 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack .....	439.84	76.91
26 56 21 00-0080 EA 35 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack .....	439.84	76.91
26 56 21 00-0081 EA 70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Mini Wall Pack .....	569.71	76.91
<b>26 56 21 00-0082 Semi Cutoff, Polycarbonate Lens, Mini Wall Packs</b> <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWA.</small>		
26 56 21 00-0083 EA 42 Watt Compact Fluorescent, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....	779.33	76.91
26 56 21 00-0084 EA 50 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....	788.97	76.91
26 56 21 00-0085 EA 70 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....	797.30	76.91
26 56 21 00-0086 EA 100 Watt Metal Halide, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....	782.11	76.91
26 56 21 00-0087 EA 70 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....	719.61	76.91
26 56 21 00-0088 EA 100 Watt High Pressure Sodium, Semi Cutoff, Polycarbonate Lens, Mini Wall Pack .....	685.28	76.91
<b>26 56 21 00-0089 Cutoff, Polycarbonate Lens, Mini Wall Packs</b> <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and diffused aluminum reflector. 10" x 11-1/2" x 8-15/16". Lithonia TWAC.</small>		
26 56 21 00-0090 EA 50 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack .....	818.88	76.91
26 56 21 00-0091 EA 70 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack .....	827.66	76.91
26 56 21 00-0092 EA 100 Watt Metal Halide, Cutoff, Polycarbonate Lens, Mini Wall Pack .....	812.48	76.91
26 56 21 00-0093 EA 70 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack .....	824.70	76.91
26 56 21 00-0094 EA 100 Watt High Pressure Sodium, Cutoff, Polycarbonate Lens, Mini Wall Pack .....	824.70	76.91
<b>26 56 21 00-0095 Non-Cutoff, Borosilicate Glass Lens, Small Wall Packs</b> <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 9" x 13" x 7-3/8". Lithonia TWR1.</small>		
26 56 21 00-0096 EA 70 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	794.81	102.45
26 56 21 00-0097 EA 100 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	794.81	102.45
26 56 21 00-0098 EA 175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	747.78	102.45
26 56 21 00-0099 EA 70 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	765.81	102.45
26 56 21 00-0100 EA 100 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	765.81	102.45
26 56 21 00-0101 EA 150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	713.65	102.45
<b>26 56 21 00-0102 Cutoff, Borosilicate Glass Lens, Small Wall Packs</b> <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 10-1/4" x 13" x 8-15/32". Lithonia TWR1C.</small>		
26 56 21 00-0103 EA 70 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	822.68	102.45
26 56 21 00-0104 EA 100 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	822.68	102.45
26 56 21 00-0105 EA 175 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	822.68	102.45
26 56 21 00-0106 EA 70 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	795.02	102.45
26 56 21 00-0107 EA 100 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	795.02	102.45
26 56 21 00-0108 EA 150 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Small Wall Pack .....	795.02	102.45
<b>26 56 21 00-0109 Full Cutoff, Tempered Glass Lens, Small Wall Packs</b> <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 9-3/8" x 14-3/8" x 8-3/4". Meets Nighttime Friendly criteria. Lithonia TWR1S.</small>		
26 56 21 00-0110 EA 175 Watt Metal Halide, Full Cutoff, Tempered Glass Lens, Small Wall Pack .....	1,047.81	102.45
<b>26 56 21 00-0111 Cutoff, Borosilicate Glass Lens, Medium Wall Packs</b> <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. Lithonia TWR2.</small>		
26 56 21 00-0112 EA 250 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack .....	1,001.13	126.90
<small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>		
26 56 21 00-0113 EA 400 Watt Metal Halide, Cutoff, Borosilicate Glass Lens, Medium Wall Pack .....	1,064.90	126.90
<small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>		
26 56 21 00-0114 EA 250 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack .....	1,140.92	126.90
<small>Note: 9-1/4" x 17-7/8" x 9-3/8".</small>		
26 56 21 00-0115 EA 400 Watt High Pressure Sodium, Cutoff, Borosilicate Glass Lens, Medium Wall Pack .....	1,161.85	126.90
<small>Note: 9-1/4" x 17-7/8" x 12-1/2".</small>		
<b>26 56 21 00-0116 Cutoff, Tempered Glass Lens, Medium Wall Packs</b> <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 10" x 17-1/8" x 14-1/2". Lithonia TWR2C.</small>		
26 56 21 00-0117 EA 250 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack .....	1,083.15	126.90
26 56 21 00-0118 EA 400 Watt Metal Halide, Cutoff, Tempered Glass Lens, Medium Wall Pack .....	1,154.80	126.90
<b>26 56 21 00-0119 Non-Cutoff, Polycarbonate Lens, Large Wall Packs</b> <small>(26 56 21 00-0076)</small>		
<small>Note: Polycarbonate body and powder coated reflector. 15-7/16" x 16-1/8" x 7-3/4". Lithonia TWP.</small>		
26 56 21 00-0120 EA 100 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....	1,017.91	153.82
26 56 21 00-0121 EA 175 Watt Metal Halide, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....	942.02	153.82
26 56 21 00-0122 EA 70 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....	1,000.35	153.82
26 56 21 00-0123 EA 100 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....	1,006.15	153.82
26 56 21 00-0124 EA 150 Watt High Pressure Sodium, Non-Cutoff, Polycarbonate Lens, Large Wall Pack .....	1,012.24	153.82
<b>26 56 21 00-0125 Non-Cutoff, Borosilicate Glass Lens, Large Wall Packs</b> <small>(26 56 21 00-0076)</small>		
<small>Note: Aluminum body and reflector. 15-3/4" x 16-1/4" x 8". Lithonia TWH.</small>		
26 56 21 00-0126 EA 175 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	1,017.93	153.82
26 56 21 00-0127 EA 250 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	1,043.25	153.82
26 56 21 00-0128 EA 400 Watt Metal Halide, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	1,119.13	153.82
26 56 21 00-0129 EA 150 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack .....	1,068.55	153.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 56 21 00-0130 EA 250 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	1,093.87	153.82
26 56 21 00-0131 EA 400 Watt High Pressure Sodium, Non-Cutoff, Borosilicate Glass Lens, Large Wall Pack.....	1,144.41	153.82
<b>26 56 21 00-0132 Semi Cutoff, Induction Wall Packs (26 56 21 00-0076)</b>		
<b>26 56 21 00-0133 Semi Cutoff, Induction Wall Packs (Everlast®) (26 56 21 00-0132)</b>		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0134 EA 70 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-70).....	1,256.13	143.39
26 56 21 00-0135 EA 80 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-80).....	1,283.80	151.82
26 56 21 00-0136 EA 100 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-100).....	1,311.48	160.24
26 56 21 00-0137 EA 120 Watt, Wall Mount, Semi Cutoff, Bi-Level Induction Wall Pack (Everlast® EOF-ED-120).....	1,457.96	168.68
<b>26 56 21 00-0138 Non-Cutoff, Polycarbonate Lens, Small Wall Packs (26 56 21 00-0076)</b>		
26 56 21 00-0139 EA 15 Watt, Exterior, Non-Cutoff Small Wall Pack (Sylvania 60066-SMWLPK1N/015UNV740/NC/BZ/P).....	424.85	76.91
<b>26 56 21 00-0140 Induction, Roadway Lighting (26 56 21)</b>		
<b>26 56 21 00-0141 Induction Roadway Lighting (US Lighting Tech) (26 56 21 00-0140)</b>		
Note: Includes gray powder coat finish heavy duty die cast aluminum body and flat glass lens.		
26 56 21 00-0142 EA 40 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	757.79	253.02
26 56 21 00-0143 EA 70 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	824.02	261.46
26 56 21 00-0144 EA 100 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	857.76	278.33
26 56 21 00-0145 EA 150 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	891.49	295.20
26 56 21 00-0146 EA 200 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	1,021.89	303.63
26 56 21 00-0147 EA 250 Watt Induction, Horizontal Tenon Mount, Street Light (US Lighting Tech Jersey HR, 511).....	1,042.71	312.07
26 56 21 00-0148 EA 40 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	716.33	253.02
26 56 21 00-0149 EA 70 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	788.48	261.46
26 56 21 00-0150 EA 100 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	822.22	278.33
26 56 21 00-0151 EA 150 Watt Induction, Horizontal Tenon Mount, Cobra Head Street Light (US Lighting Tech Cobra 100, 512).....	855.95	295.20
<b>26 56 21 00-0152 Induction, Area Fixtures (26 56 21)</b>		
<b>26 56 21 00-0153 Post Top, Induction Area Fixtures (26 56 21 00-0152)</b>		
<b>26 56 21 00-0154 Post Top, Induction Area Fixtures (US Lighting Tech) (26 56 21 00-0153)</b>		
Note: Includes black powder coat finish heavy duty die cast aluminum body and no-lite lid acrylic lens.		
26 56 21 00-0155 EA 40 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	820.27	231.94
26 56 21 00-0156 EA 70 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	877.53	231.94
26 56 21 00-0157 EA 100 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	877.53	231.94
26 56 21 00-0158 EA 150 Watt Induction, Post Top Mount, Acorn Style Area Fixture (US Lighting Tech Acorn, 571).....	877.53	231.94
<b>26 56 21 00-0159 Surface Mount, Induction Parking Structure Fixtures (26 56 21 00-0152)</b>		
<b>26 56 21 00-0160 Surface Mount, Induction Parking Structure Fixtures (Everlast®) (26 56 21 00-0159)</b>		
26 56 21 00-0161 EA 40 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	745.38	210.85
26 56 21 00-0162 EA 55 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	787.39	215.07
26 56 21 00-0163 EA 70 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	799.77	219.29
26 56 21 00-0164 EA 80 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	812.16	223.51
26 56 21 00-0165 EA 100 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	824.54	227.72
26 56 21 00-0166 EA 120 Watt Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	840.87	231.94
26 56 21 00-0167 EA 70/28 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	857.03	219.29
26 56 21 00-0168 EA 80/32 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	869.42	223.51
26 56 21 00-0169 EA 100/40 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	881.79	227.72
26 56 21 00-0170 EA 120/48 Watt Bi-Level Induction, Surface Mount, Round, Parking Structure Fixture (Everlast® Davenport EGFUS-EC).....	914.91	231.94
<b>26 56 21 00-0171 Pole Mount, Induction Area Fixtures (26 56 21 00-0152)</b>		
<b>26 56 21 00-0172 Pole Mount, Bi-Level Induction Area Fixtures (Everlast® ESB-ED) (26 56 21 00-0171)</b>		
Note: UL wet listed. Includes bi-level ballast, die-cast aluminum housing assembly and bronze powder coat finish. Excludes sensors.		
26 56 21 00-0173 EA 70 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-70).....	1,310.14	143.39
26 56 21 00-0174 EA 80 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-80).....	1,348.61	151.82
26 56 21 00-0175 EA 100 Watt, Pole Mount, Bi-Level Induction Area Fixture (Everlast® ESB-ED-100).....	1,387.08	160.24

**END OF SECTION 26**



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 27 Communications

Note: Termination costs are included with all communication equipment, panel boards, and devices. Terminations are not included with patch panels.

### 27 05 Common Work Results for Communications <sup>(27)</sup>

#### 27 05 26 Grounding and Bonding for Communications Systems <sup>(27 05)</sup>

See CSI section 26 05 26 00-0000 for grounding.

27 05 26 00-0001	EA 2" x 1/4" x 12", TGB Pattern, Grounding Bus Bar .....	216.89	41.59
27 05 26 00-0002	EA 4" x 1/4" x 12", TMGB Pattern, Grounding Bus Bar .....	396.41	41.59
27 05 26 00-0003	EA #6 AWG, Cable Runway Ground Strap .....	78.66	7.70
27 05 26 00-0004	EA 1/4" Screw Size, #6 AWG Compression Lug .....	29.46	7.70
27 05 26 00-0005	EA 3/8" Screw Size, #6 AWG Compression Lug .....	31.20	7.70
27 05 26 00-0006	EA Two Mounting Hole, Ground Terminal Block .....	34.41	7.70
27 05 26 00-0007	EA 25 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 720-00).....	1,113.03	157.41
	Note: Excludes terminations.		
27 05 26 00-0008	EA 50 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 820-00).....	1,433.16	209.93
	Note: Excludes terminations.		
27 05 26 00-0009	EA 100 Pair Outdoor, Enclosed Building Entrance Terminal (ADC 6649 1 630-00).....	2,257.72	314.81
	Note: Excludes terminations.		
27 05 26 00-0010	EA Lucent 3B1-EW, Gas Tube Protector Unit .....	13.47	2.31

#### 27 05 29 Hangers and Supports for Communications Systems <sup>(27 05)</sup>

See CSI section 26 05 29 00-0000 for hangers and supports.

27 05 29 00-0001	Communications And Low Voltage Cable Hooks (J-Hooks) <sup>(27 05 29)</sup>		
27 05 29 00-0002	Screw On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <sup>(27 05 29 00-0001)</sup>		
	Note: Includes screw.		
27 05 29 00-0003	EA 3/4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12).....	11.20	3.85
	For >50 To 100, Deduct	-0.47	
	For >100 To 250, Deduct	-0.95	
	For >250 To 500, Deduct	-1.80	
	For >500, Deduct	-2.66	
	For Installation On Concrete (Includes Drilling And Fastener), Add	2.03	
	For Work In Restricted Working Space, Add	2.31	
	For Painted Powder Coated Finish, Add	0.71	
27 05 29 00-0004	EA 1-5/16" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21).....	11.74	3.85
	For >50 To 100, Deduct	-0.49	
	For >100 To 250, Deduct	-0.97	
	For >250 To 500, Deduct	-1.84	
	For >500, Deduct	-2.71	
	For Installation On Concrete (Includes Drilling And Fastener), Add	2.03	
	For Work In Restricted Working Space, Add	2.31	
	For Painted Powder Coated Finish, Add	2.49	
	For Low Friction Xylan® Coated Finish, Add	8.87	
27 05 29 00-0005	EA 2" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32).....	12.58	3.85
	For >50 To 100, Deduct	-0.51	
	For >100 To 250, Deduct	-1.01	
	For >250 To 500, Deduct	-1.91	
	For >500, Deduct	-2.80	
	For Installation On Concrete (Includes Drilling And Fastener), Add	2.03	
	For Work In Restricted Working Space, Add	2.31	
	For Painted Powder Coated Finish, Add	3.06	
	For Low Friction Xylan® Coated Finish, Add	11.03	
27 05 29 00-0006	EA 4" Hook Size, Pre-Galvanized Finish, Screw On, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64).....	19.84	3.85
	For >50 To 100, Deduct	-0.69	
	For >100 To 250, Deduct	-1.38	
	For >250 To 500, Deduct	-2.45	
	For >500, Deduct	-3.52	
	For Installation On Concrete (Includes Drilling And Fastener), Add	2.03	
	For Work In Restricted Working Space, Add	2.31	
	For Painted Powder Coated Finish, Add	1.63	
	For Low Friction Xylan® Coated Finish, Add	9.77	
27 05 29 00-0007	Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) <sup>(27 05 29 00-0001)</sup>		
	Note: Includes screw.		
27 05 29 00-0008	EA 3/4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-RB).....	12.47	3.85
	For >50 To 100, Deduct	-0.50	
	For >100 To 250, Deduct	-1.01	
	For >250 To 500, Deduct	-1.90	
	For >500, Deduct	-2.79	
	For Installation On Concrete (Includes Drilling And Fastener), Add	2.03	
	For Work In Restricted Working Space, Add	2.31	

**27 Communications****27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 05 29 00-0009 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-RB).....	15.74	3.85
For >50 To 100, Deduct	-0.59	
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.14	
For >500, Deduct	-3.11	
For Installation On Concrete (Includes Drilling And Fastener), Add	2.03	
For Work In Restricted Working Space, Add	2.31	
27 05 29 00-0010 EA 2" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-RB).....	17.33	3.85
For >50 To 100, Deduct	-0.63	
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-2.26	
For >500, Deduct	-3.27	
For Installation On Concrete (Includes Drilling And Fastener), Add	2.03	
For Work In Restricted Working Space, Add	2.31	
27 05 29 00-0011 EA 4" Hook Size, Pre-Galvanized Finish, Screw On Angle Bracket Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-RB).....	23.02	3.85
For >50 To 100, Deduct	-0.77	
For >100 To 250, Deduct	-1.54	
For >250 To 500, Deduct	-2.69	
For >500, Deduct	-3.84	
For Installation On Concrete (Includes Drilling And Fastener), Add	2.03	
For Work In Restricted Working Space, Add	2.31	
<b>27 05 29 00-0012 Strut Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)</b>		
Note: Excludes strut.		
27 05 29 00-0013 EA 3/4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-SC4).....	13.08	3.85
For >50 To 100, Deduct	-0.52	
For >100 To 250, Deduct	-1.04	
For >250 To 500, Deduct	-1.94	
For >500, Deduct	-2.85	
For Work In Restricted Working Space, Add	2.31	
27 05 29 00-0014 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-SC4).....	15.26	3.85
For >50 To 100, Deduct	-0.57	
For >100 To 250, Deduct	-1.15	
For >250 To 500, Deduct	-2.11	
For >500, Deduct	-3.07	
For Work In Restricted Working Space, Add	2.31	
27 05 29 00-0015 EA 2" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-SC4).....	16.39	3.85
For >50 To 100, Deduct	-0.60	
For >100 To 250, Deduct	-1.20	
For >250 To 500, Deduct	-2.19	
For >500, Deduct	-3.18	
For Work In Restricted Working Space, Add	2.31	
27 05 29 00-0016 EA 4" Hook Size, Pre-Galvanized Finish, Strut Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-SC4).....	21.76	3.85
For >50 To 100, Deduct	-0.74	
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-2.59	
For >500, Deduct	-3.72	
For Work In Restricted Working Space, Add	2.31	
<b>27 05 29 00-0017 T-Bar Attachment, Communications And Low Voltage Cable Hooks (J-Hooks) (27 05 29 00-0001)</b>		
Note: Excludes T-Bar.		
27 05 29 00-0018 EA 3/4" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-A28).....	15.46	3.85
For >50 To 100, Deduct	-0.58	
For >100 To 250, Deduct	-1.16	
For >250 To 500, Deduct	-2.12	
For >500, Deduct	-3.09	
For Work In Restricted Working Space, Add	2.31	
27 05 29 00-0019 EA 1-5/16" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-A28).....	19.15	3.85
For >50 To 100, Deduct	-0.67	
For >100 To 250, Deduct	-1.34	
For >250 To 500, Deduct	-2.40	
For >500, Deduct	-3.46	
For Work In Restricted Working Space, Add	2.31	
27 05 29 00-0020 EA 2" Hook Size, Pre-Galvanized Finish, T-Bar Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-A28).....	20.11	3.85
For >50 To 100, Deduct	-0.70	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-3.55	
For Work In Restricted Working Space, Add	2.31	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 05 29 00-0021 Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hooks (J-Hooks)</b> <small>(27 05 29 00-0001)</small> Note: Excludes threaded rod. See CSI section 26 05 29 00-0372 for threaded rod.		
27 05 29 00-0022 EA 3/4" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-W6).....	12.79	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.51	
<i>For &gt;100 To 250, Deduct</i>	-1.02	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.82	
<i>For Work In Restricted Working Space, Add</i>	2.31	
27 05 29 00-0023 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-W6) .....	13.29	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.52	
<i>For &gt;100 To 250, Deduct</i>	-1.05	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.87	
<i>For Work In Restricted Working Space, Add</i>	2.31	
27 05 29 00-0024 EA 2" Hook Size, Pre-Galvanized Finish, Plain Or Threaded Rod Clip-On Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-W6).....	15.84	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.59	
<i>For &gt;100 To 250, Deduct</i>	-1.18	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-3.12	
<i>For Work In Restricted Working Space, Add</i>	2.31	
<b>27 05 29 00-0025 Threaded Rod Attachment, Communications And Low Voltage Cable Hooks (J-Hooks)</b> <small>(27 05 29 00-0001)</small> Note: Excludes threaded rod, nuts and washers. See CSI section 26 05 29 00-0372 for threaded rod, nuts and washers.		
27 05 29 00-0026 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-AB).....	15.55	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.58	
<i>For &gt;100 To 250, Deduct</i>	-1.16	
<i>For &gt;250 To 500, Deduct</i>	-2.13	
<i>For &gt;500, Deduct</i>	-3.10	
<i>For Work In Restricted Working Space, Add</i>	2.31	
27 05 29 00-0027 EA 2" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-AB) .....	16.74	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.61	
<i>For &gt;100 To 250, Deduct</i>	-1.22	
<i>For &gt;250 To 500, Deduct</i>	-2.22	
<i>For &gt;500, Deduct</i>	-3.21	
<i>For Work In Restricted Working Space, Add</i>	2.31	
27 05 29 00-0028 EA 4" Hook Size, Pre-Galvanized Finish, Threaded Rod Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-AB).....	22.69	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.76	
<i>For &gt;100 To 250, Deduct</i>	-1.52	
<i>For &gt;250 To 500, Deduct</i>	-2.66	
<i>For &gt;500, Deduct</i>	-3.81	
<i>For Work In Restricted Working Space, Add</i>	2.31	
<b>27 05 29 00-0029 Beam Clamp Attachment, Communications And Low Voltage Cable Hooks (J-Hooks)</b> <small>(27 05 29 00-0001)</small>		
27 05 29 00-0030 EA 3/4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH12-C442A).....	15.38	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.58	
<i>For &gt;100 To 250, Deduct</i>	-1.15	
<i>For &gt;250 To 500, Deduct</i>	-2.12	
<i>For &gt;500, Deduct</i>	-3.08	
<i>For Work In Restricted Working Space, Add</i>	2.31	
27 05 29 00-0031 EA 1-5/16" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH21-C442A).....	17.52	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.63	
<i>For &gt;100 To 250, Deduct</i>	-1.26	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-3.29	
<i>For Work In Restricted Working Space, Add</i>	2.31	
27 05 29 00-0032 EA 2" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH32-C442A).....	18.65	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.66	
<i>For &gt;100 To 250, Deduct</i>	-1.32	
<i>For &gt;250 To 500, Deduct</i>	-2.36	
<i>For &gt;500, Deduct</i>	-3.41	
<i>For Work In Restricted Working Space, Add</i>	2.31	
27 05 29 00-0033 EA 4" Hook Size, Pre-Galvanized Finish, Beam Clamp Attachment, Communications And Low Voltage Cable Hook (J-Hook) (Cooper B-line BCH64-C442A).....	24.84	3.85
<i>For &gt;50 To 100, Deduct</i>	-0.81	
<i>For &gt;100 To 250, Deduct</i>	-1.63	
<i>For &gt;250 To 500, Deduct</i>	-2.83	
<i>For &gt;500, Deduct</i>	-4.02	
<i>For Work In Restricted Working Space, Add</i>	2.31	

**27 Communications****27 05 Common Work Results for Communications****27 05 29 Hangers and Supports for Communications Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 05 29 00-0034 Adjustable Cable Supports (Caddy® CableCat CAT425)</b> <sup>(27 05 29)</sup>		
27 05 29 00-0035 EA Wall Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	42.65	5.08
For >50 To 100, Deduct	-1.45	
For >100 To 250, Deduct	-2.90	
For >250 To 500, Deduct	-5.12	
For >500, Deduct	-7.34	
For Installation On Concrete (Includes Drilling And Fastener), Add	3.95	
For Work In Restricted Working Space, Add	4.62	
27 05 29 00-0036 EA Threaded Rod Or Horizontal Surface Mount, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	43.45	5.08
For >50 To 100, Deduct	-1.47	
For >100 To 250, Deduct	-2.94	
For >250 To 500, Deduct	-5.18	
For >500, Deduct	-7.42	
For Work In Restricted Working Space, Add	4.62	
27 05 29 00-0037 EA Up To 1/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	47.60	5.08
For >50 To 100, Deduct	-1.57	
For >100 To 250, Deduct	-3.15	
For >250 To 500, Deduct	-5.49	
For >500, Deduct	-7.84	
For Work In Restricted Working Space, Add	4.62	
27 05 29 00-0038 EA >1/4" To 3/4" Flange, Hammer On Flange Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	42.52	5.08
For >50 To 100, Deduct	-1.45	
For >100 To 250, Deduct	-2.90	
For >250 To 500, Deduct	-5.11	
For >500, Deduct	-7.33	
For Work In Restricted Working Space, Add	4.62	
27 05 29 00-0039 EA Up To 1/2" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	44.44	5.08
For >50 To 100, Deduct	-1.50	
For >100 To 250, Deduct	-2.99	
For >250 To 500, Deduct	-5.26	
For >500, Deduct	-7.52	
For Work In Restricted Working Space, Add	4.62	
27 05 29 00-0040 EA >1/2" To 5/8" Flange, Beam Clamp, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	46.35	5.08
For >50 To 100, Deduct	-1.54	
For >100 To 250, Deduct	-3.09	
For >250 To 500, Deduct	-5.40	
For >500, Deduct	-7.71	
For Work In Restricted Working Space, Add	4.62	
27 05 29 00-0041 EA Up To 1/4" Flange, Hammer On Purlin Clip, 4" To 6" Diameter Loop, Adjustable Cable Support (Caddy® CableCat CAT425).....	43.80	5.08
For >50 To 100, Deduct	-1.48	
For >100 To 250, Deduct	-2.96	
For >250 To 500, Deduct	-5.21	
For >500, Deduct	-7.46	
For Work In Restricted Working Space, Add	4.62	

**27 05 33 Conduits and Backboxes for Communications Systems** <sup>(27 05)</sup>

See CSI section 26 05 33 00-0000 for conduit and boxes.

**27 05 36 Cable Trays for Communications Systems** <sup>(27 05)</sup>

See CSI section 26 05 36 00-0000 for cable trays.

**27 05 39 Surface Raceways for Communications Systems** <sup>(27 05)</sup>

See CSI section 26 05 33 00-0000 for surface raceways.

**27 05 43 Underground Ducts and Raceways for Communications Systems** <sup>(27 05)</sup>

See CSI section 26 05 43 00-0000 for underground ducts and raceways.

**27 05 46 Utility Poles for Communications Systems** <sup>(27 05)</sup>

See CSI section 26 05 46 00-0000 for utility poles.

**27 05 53 Identification for Communications Systems** <sup>(27 05)</sup>

See CSI section 26 05 53 00-0000 for identification.

**27 10 Structured Cabling** <sup>(27)</sup>

Note: Includes identifying, tagging and testing.

**27 11 Communications Equipment Room Fittings** <sup>(27 10)</sup>**27 11 16 Communications Cabinets, Racks, Frames, and Enclosures** <sup>(27 11)</sup>**27 11 16 00-0001 3/4" Fire Retardant Plywood Backboards** <sup>(27 11 16)</sup>

27 11 16 00-0002 EA 4' x 4' x 3/4" Fire Retardant Plywood Backboard.....	111.96	39.99
For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	55.27	
27 11 16 00-0003 EA 4' x 8' x 3/4" Fire Retardant Plywood Backboard.....	223.92	79.99
For Two Coats Of Non-Conductive, Fire Retardant Paint, Add	110.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 11 16 00-0004 Terminal Cabinets</b> <small>(27 11 16)</small>		
27 11 16 00-0005 EA 12" x 12" x 4" Phone Terminal Cabinet With Wood Backboard .....	433.05	115.36
27 11 16 00-0006 EA 18" x 12" x 4" Phone Terminal Cabinet With Wood Backboard .....	542.84	126.90
27 11 16 00-0007 EA 24" x 12" x 4" Phone Terminal Cabinet With Wood Backboard .....	624.66	146.13
27 11 16 00-0008 EA 18" x 18" x 4" Phone Terminal Cabinet With Wood Backboard .....	648.11	149.97
27 11 16 00-0009 EA 24" x 18" x 4" Phone Terminal Cabinet With Wood Backboard .....	785.90	153.82
27 11 16 00-0010 EA 26" x 36" x 4" Phone Terminal Cabinet With Wood Backboard .....	969.06	173.05
27 11 16 00-0011 EA 24" x 24" x 6" Phone Terminal Cabinet With Wood Backboard .....	990.24	169.21
27 11 16 00-0012 EA 30" x 24" x 6" Phone Terminal Cabinet With Wood Backboard .....	1,277.35	241.04
27 11 16 00-0013 EA 36" x 24" x 6" Phone Terminal Cabinet With Wood Backboard .....	1,368.04	264.88
27 11 16 00-0014 EA 42" x 24" x 6" Phone Terminal Cabinet With Wood Backboard .....	1,643.74	279.80
27 11 16 00-0015 EA 30" x 30" x 6" Phone Terminal Cabinet With Wood Backboard .....	1,357.51	230.73
27 11 16 00-0016 EA 36" x 30" x 6" Phone Terminal Cabinet With Wood Backboard .....	1,468.22	249.96
27 11 16 00-0017 EA 48" x 30" x 6" Phone Terminal Cabinet With Wood Backboard .....	1,832.45	320.41
27 11 16 00-0018 EA 54" x 30" x 6" Phone Terminal Cabinet With Wood Backboard .....	2,203.93	400.55
27 11 16 00-0019 EA 48" x 36" x 6" Phone Terminal Cabinet With Wood Backboard .....	2,486.13	396.09
27 11 16 00-0020 EA 60" x 36" x 6" Phone Terminal Cabinet With Wood Backboard .....	2,861.65	481.92
<b>27 11 16 00-0021 Equipment Racks And Cable Managers</b> <small>(27 11 16)</small>		
<b>27 11 16 00-0022 Equipment Racks</b> <small>(27 11 16 00-0021)</small>		
Note: Electronics Industries Association EIA-310-D compliant. Includes aluminum construction with clear grained aluminum or black epoxy-polyester hybrid powder coat finish.		
<b>27 11 16 00-0023 Standard Equipment Racks</b> <small>(27 11 16 00-0022)</small>		
<b>27 11 16 00-0024 19" Width, Standard Equipment Racks</b> <small>(27 11 16 00-0023)</small>		
27 11 16 00-0025 EA 84" Height, 19" Width, 3" Depth, 45U, Standard Equipment Rack (Chatsworth 55053-X03).....	719.31	246.12
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	11.35	
27 11 16 00-0026 EA 96" Height, 19" Width, 3" Depth, 51U, Standard Equipment Rack (Chatsworth 55053-X15).....	971.09	261.50
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	22.41	
27 11 16 00-0027 EA 108" Height, 19" Width, 3" Depth, 58U, Standard Equipment Rack (Chatsworth 55053-X08).....	1,047.13	276.88
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.67	
<b>27 11 16 00-0028 Universal Equipment Racks</b> <small>(27 11 16 00-0022)</small>		
<b>27 11 16 00-0029 Universal Equipment Racks</b> <small>(27 11 16 00-0028)</small>		
<b>27 11 16 00-0030 19" Width, EIA Universal Equipment Racks</b> <small>(27 11 16 00-0029)</small>		
27 11 16 00-0031 EA 36" Height, 19" Width, 3" Depth, 17U, EIA Universal Equipment Rack (Chatsworth 46353-X31).....	900.28	215.35
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	23.48	
27 11 16 00-0032 EA 48" Height, 19" Width, 3" Depth, 24U, EIA Universal Equipment Rack (Chatsworth 46353-X20).....	978.33	219.19
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.00	
27 11 16 00-0033 EA 60" Height, 19" Width, 3" Depth, 31U, EIA Universal Equipment Rack (Chatsworth 46353-X19).....	978.45	223.04
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	26.62	
27 11 16 00-0034 EA 66" Height, 19" Width, 3" Depth, 34U, EIA Universal Equipment Rack (Chatsworth 46353-X00).....	1,002.95	226.89
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.46	
27 11 16 00-0035 EA 72" Height, 19" Width, 3" Depth, 38U, EIA Universal Equipment Rack (Chatsworth 46353-X01).....	1,027.19	230.73
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	28.29	
27 11 16 00-0036 EA 78" Height, 19" Width, 3" Depth, 41U, EIA Universal Equipment Rack (Chatsworth 46353-X02).....	1,053.33	234.58
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	29.21	
27 11 16 00-0037 EA 84" Height, 19" Width, 3" Depth, 45U, EIA Universal Equipment Rack (Chatsworth 46353-X03).....	910.51	238.43
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	21.68	
27 11 16 00-0038 EA 90" Height, 19" Width, 3" Depth, 48U, EIA Universal Equipment Rack (Chatsworth 46353-X05).....	1,104.20	242.27
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	30.98	
27 11 16 00-0039 EA 96" Height, 19" Width, 3" Depth, 51U, EIA Universal Equipment Rack (Chatsworth 46353-X15).....	1,141.68	246.12
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	32.47	
27 11 16 00-0040 EA 102" Height, 19" Width, 3" Depth, 55U, EIA Universal Equipment Rack (Chatsworth 46353-X17).....	1,174.57	249.96
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	33.73	
27 11 16 00-0041 EA 108" Height, 19" Width, 3" Depth, 58U, EIA Universal Equipment Rack (Chatsworth 46353-X08).....	1,183.55	253.80
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	33.80	
<b>27 11 16 00-0042 23" Width, Universal Equipment Racks</b> <small>(27 11 16 00-0029)</small>		
27 11 16 00-0043 EA 36" Height, 23" Width, 3" Depth, 17U, Universal Equipment Rack (Chatsworth 46383-X31) .....	948.47	215.35
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	25.89	
27 11 16 00-0044 EA 48" Height, 23" Width, 3" Depth, 24U, Universal Equipment Rack (Chatsworth 46383-X20) .....	980.12	219.19
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	27.09	
27 11 16 00-0045 EA 60" Height, 23" Width, 3" Depth, 31U, Universal Equipment Rack (Chatsworth 46383-X19) .....	1,008.12	223.04
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	28.10	
27 11 16 00-0046 EA 66" Height, 23" Width, 3" Depth, 34U, Universal Equipment Rack (Chatsworth 46383-X00) .....	1,059.38	226.89
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	30.28	
27 11 16 00-0047 EA 72" Height, 23" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46383-X01) .....	1,085.29	230.73
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	31.19	
27 11 16 00-0048 EA 78" Height, 23" Width, 3" Depth, 41U, Universal Equipment Rack (Chatsworth 46383-X02) .....	1,113.36	234.58
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	32.21	
27 11 16 00-0049 EA 84" Height, 23" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46383-X03) .....	971.22	238.43
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	24.72	
27 11 16 00-0050 EA 90" Height, 23" Width, 3" Depth, 48U, Universal Equipment Rack (Chatsworth 46383-X05) .....	1,167.90	242.27
<i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	34.17	

**27 Communications****27 10 Structured Cabling****27 11 Communications Equipment Room Fittings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 16 00-0051 EA 96" Height, 23" Width, 3" Depth, 51U, Universal Equipment Rack (Chatsworth 46383-X15) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,208.39 35.81	246.12
27 11 16 00-0052 EA 102" Height, 23" Width, 3" Depth, 55U, Universal Equipment Rack (Chatsworth 46383-X17) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,243.93 37.20	249.96
27 11 16 00-0053 EA 108" Height, 23" Width, 3" Depth, 58U, Universal Equipment Rack (Chatsworth 46383-X08) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,253.01 37.27	253.80
<b>27 11 16 00-0054 35" Width, Universal Equipment Racks (27 11 16 00-0029)</b>		
27 11 16 00-0055 EA 72" Height, 35" Width, 3" Depth, 38U, Universal Equipment Rack (Chatsworth 46363-X01) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,166.97 35.28	230.73
27 11 16 00-0056 EA 84" Height, 35" Width, 3" Depth, 45U, Universal Equipment Rack (Chatsworth 46363-X03) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,227.36 37.53	238.43
<b>27 11 16 00-0057 UL Listed Universal Equipment Racks (27 11 16 00-0028)</b> Note: UL listed as a communications circuit accessory.		
<b>27 11 16 00-0058 19" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)</b>		
27 11 16 00-0059 EA 36" Height, 19" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48353-X31) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	947.25 25.83	215.35
27 11 16 00-0060 EA 48" Height, 19" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48353-X20) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,019.43 29.05	219.19
27 11 16 00-0061 EA 60" Height, 19" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48353-X19) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,035.21 29.46	223.04
27 11 16 00-0062 EA 66" Height, 19" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48353-X00) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,057.91 30.21	226.89
27 11 16 00-0063 EA 72" Height, 19" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48353-X01) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,083.74 31.11	230.73
27 11 16 00-0064 EA 78" Height, 19" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48353-X02) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,111.74 32.13	234.58
27 11 16 00-0065 EA 84" Height, 19" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48353-X03) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,138.67 33.09	238.43
27 11 16 00-0066 EA 90" Height, 19" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48353-X05) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,166.20 34.08	242.27
27 11 16 00-0067 EA 96" Height, 19" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48353-X15) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,206.65 35.72	246.12
27 11 16 00-0068 EA 102" Height, 19" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48353-X17) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,242.09 37.11	249.96
27 11 16 00-0069 EA 108" Height, 19" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48353-X08) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,251.09 37.17	253.80
<b>27 11 16 00-0070 23" Width, UL Listed Universal Equipment Racks (27 11 16 00-0057)</b>		
27 11 16 00-0071 EA 36" Height, 23" Width, 3" Depth, 17U, UL Listed Universal Equipment Rack (Chatsworth 48383-X31) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,000.30 28.48	215.35
27 11 16 00-0072 EA 48" Height, 23" Width, 3" Depth, 24U, UL Listed Universal Equipment Rack (Chatsworth 48383-X20) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,091.38 32.65	219.19
27 11 16 00-0073 EA 60" Height, 23" Width, 3" Depth, 31U, UL Listed Universal Equipment Rack (Chatsworth 48383-X19) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,105.63 32.98	223.04
27 11 16 00-0074 EA 66" Height, 23" Width, 3" Depth, 34U, UL Listed Universal Equipment Rack (Chatsworth 48383-X00) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,119.93 33.31	226.89
27 11 16 00-0075 EA 72" Height, 23" Width, 3" Depth, 38U, UL Listed Universal Equipment Rack (Chatsworth 48383-X01) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,147.65 34.31	230.73
27 11 16 00-0076 EA 78" Height, 23" Width, 3" Depth, 41U, UL Listed Universal Equipment Rack (Chatsworth 48383-X02) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,177.78 35.43	234.58
27 11 16 00-0077 EA 84" Height, 23" Width, 3" Depth, 45U, UL Listed Universal Equipment Rack (Chatsworth 48383-X03) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,206.66 36.49	238.43
27 11 16 00-0078 EA 90" Height, 23" Width, 3" Depth, 48U, UL Listed Universal Equipment Rack (Chatsworth 48383-X05) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,236.21 37.58	242.27
27 11 16 00-0079 EA 96" Height, 23" Width, 3" Depth, 51U, UL Listed Universal Equipment Rack (Chatsworth 48383-X15) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,280.00 39.39	246.12
27 11 16 00-0080 EA 102" Height, 23" Width, 3" Depth, 55U, UL Listed Universal Equipment Rack (Chatsworth 48383-X17) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,318.34 40.92	249.96
27 11 16 00-0081 EA 108" Height, 23" Width, 3" Depth, 58U, UL Listed Universal Equipment Rack (Chatsworth 48383-X08) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,327.66 41.00	253.80
<b>27 11 16 00-0082 4-Post Equipment Racks And Server Frames (27 11 16 00-0022)</b>		
<b>27 11 16 00-0083 4-Post Equipment Racks (27 11 16 00-0082)</b>		
27 11 16 00-0084 EA 19" Width, 29" Depth, 84" Height, 4-Post Equipment Rack (Chatsworth 50120-X03)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,897.61 56.43	384.55
27 11 16 00-0085 EA 19" Width, 29" Depth, 96" Height, 4-Post Equipment Rack (Chatsworth 50120-X15)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	2,065.34 63.27	399.94
27 11 16 00-0086 EA 19" Width, 29" Depth, 108" Height, 4-Post Equipment Rack (Chatsworth 50120-X08)..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	2,223.83 69.66	415.31
<b>27 11 16 00-0087 4-Post Server Frame (27 11 16 00-0082)</b>		
27 11 16 00-0088 EA 19" Width, 29" Depth, 84" Height, Server Frame (Chatsworth 15053-X03) ..... <i>For Gray Or Computer Beige Epoxy-Polyester Hybrid Powder Coat Finish, Add</i>	1,947.25 58.91	384.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 11 16 00-0089	<b>Cable Managers</b> (27 11 16 00-0021)	
27 11 16 00-0090	<b>Horizontal Cable Managers</b> (27 11 16 00-0089)	
27 11 16 00-0091	<b>Single-Sided, Horizontal Cable Managers</b> (27 11 16 00-0090)	
27 11 16 00-0092	EA 1U Height, 19" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-719)	107.56 15.39
27 11 16 00-0093	EA 1U Height, 23" Width, 4.96" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30139-723)	119.21 15.39
27 11 16 00-0094	EA 1U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-701)	90.62 15.39
27 11 16 00-0095	EA 2U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-719)	109.31 15.39
27 11 16 00-0096	EA 2U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30130-723)	127.35 15.39
27 11 16 00-0097	EA 2U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-702)	99.83 15.39
27 11 16 00-0098	EA 3U Height, 19" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-719)	145.65 15.39
27 11 16 00-0099	EA 3U Height, 23" Width, 5.14" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 30131-723)	165.11 15.39
27 11 16 00-0100	EA 3U Height, 19" Width, 5.9" Depth, Single-Sided, Horizontal Cable Manager (Chatsworth 13930-703)	118.25 15.39
27 11 16 00-0101	<b>Double-Sided, Horizontal Cable Managers</b> (27 11 16 00-0090)	
27 11 16 00-0102	EA 1U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-719)	132.39 15.39
27 11 16 00-0103	EA 1U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30529-723)	147.75 15.39
27 11 16 00-0104	EA 2U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-719)	139.04 15.39
27 11 16 00-0105	EA 2U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30530-723)	161.03 15.39
27 11 16 00-0106	EA 3U Height, 19" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-719)	178.46 15.39
27 11 16 00-0107	EA 3U Height, 23" Width, 11.73" Depth, Double-Sided, Horizontal Cable Manager (Chatsworth 30531-723)	199.25 15.39
27 11 16 00-0108	<b>Vertical Cable Managers</b> (27 11 16 00-0089)	
27 11 16 00-0109	<b>Single-Sided, Vertical Cable Managers</b> (27 11 16 00-0108)	
27 11 16 00-0110	EA 3.6" Width, 9.7" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-701)	237.24 23.07
27 11 16 00-0111	EA 6" Width, 9.8" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-701)	331.64 23.07
27 11 16 00-0112	EA 10" Width, 10.3" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-701)	529.64 23.07
27 11 16 00-0113	EA 12" Width, 10.4" Depth, 70" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-701)	598.71 23.07
27 11 16 00-0114	EA 3.6" Width, 9.7" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-703)	253.36 23.07
27 11 16 00-0115	EA 6" Width, 9.8" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-703)	356.97 23.07
27 11 16 00-0116	EA 10" Width, 10.3" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-703)	575.69 23.07
27 11 16 00-0117	EA 12" Width, 10.4" Depth, 80.5" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-703)	644.76 23.07
27 11 16 00-0118	EA 3.6" Width, 9.7" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13901-715)	285.59 23.07
27 11 16 00-0119	EA 6" Width, 9.8" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13902-715)	391.50 23.07
27 11 16 00-0120	EA 10" Width, 10.3" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13904-715)	644.76 23.07
27 11 16 00-0121	EA 12" Width, 10.4" Depth, 91" Height, Single-Sided, Vertical Cable Manager (Chatsworth 13905-715)	713.83 23.07
27 11 16 00-0122	<b>Double-Sided, Vertical Cable Managers</b> (27 11 16 00-0108)	
27 11 16 00-0123	EA 3.6" Width, 16.4" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-701)	340.85 23.07
27 11 16 00-0124	EA 6" Width, 16.6" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-701)	400.71 23.07
27 11 16 00-0125	EA 10" Width, 17.5" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-701)	644.76 23.07
27 11 16 00-0126	EA 12" Width, 17.8" Depth, 70" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-701)	759.88 23.07
27 11 16 00-0127	EA 3.6" Width, 16.4" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-703)	368.48 23.07
27 11 16 00-0128	EA 6" Width, 16.6" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-703)	428.34 23.07
27 11 16 00-0129	EA 10" Width, 17.5" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-703)	690.81 23.07
27 11 16 00-0130	EA 12" Width, 17.8" Depth, 80.5" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-703)	805.92 23.07
27 11 16 00-0131	EA 3.6" Width, 16.4" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13911-715)	405.32 23.07
27 11 16 00-0132	EA 6" Width, 16.6" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13912-715)	465.18 23.07
27 11 16 00-0133	EA 10" Width, 17.5" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13914-715)	759.88 23.07
27 11 16 00-0134	EA 12" Width, 17.8" Depth, 91" Height, Double-Sided, Vertical Cable Manager (Chatsworth 13915-715)	874.99 23.07
27 11 16 00-0135	<b>Accessories For Vertical Cable Managers</b> (27 11 16 00-0108)	
27 11 16 00-0136	EA Cable Ring Kit For 3.6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-716)	145.88 15.39
27 11 16 00-0137	EA Cable Ring Kit For 3.6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-717)	155.09 15.39
27 11 16 00-0138	EA Cable Ring Kit For 3.6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-718)	164.30 15.39
27 11 16 00-0139	EA Cable Ring Kit For 6" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-726)	150.48 15.39
27 11 16 00-0140	EA Cable Ring Kit For 6" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-727)	164.30 15.39
27 11 16 00-0141	EA Cable Ring Kit For 6" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-728)	178.11 15.39
27 11 16 00-0142	EA Cable Ring Kit For 10" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-746)	168.90 15.39
27 11 16 00-0143	EA Cable Ring Kit For 10" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-747)	182.71 15.39
27 11 16 00-0144	EA Cable Ring Kit For 10" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-748)	196.53 15.39
27 11 16 00-0145	EA Cable Ring Kit For 12" Width x 70" Height, Vertical Cable Managers (Chatsworth 13934-756)	178.11 15.39
27 11 16 00-0146	EA Cable Ring Kit For 12" Width x 80.5" Height, Vertical Cable Managers (Chatsworth 13934-757)	196.53 15.39
27 11 16 00-0147	EA Cable Ring Kit For 12" Width x 91" Height, Vertical Cable Managers (Chatsworth 13934-758)	210.34 15.39
27 11 16 00-0148	EA Cable Lashing Bar Kit For Vertical Cable Managers (Chatsworth 13928-001)	122.85 15.39
27 11 16 00-0149	EA Cable Spool Kit For Vertical Cable Managers (Chatsworth 13935-701)	141.27 15.39
27 11 16 00-0150	EA Cable Distribution Spools For Vertical Cable Managers (Chatsworth 15008-001)	147.49 15.39
27 11 16 00-0151	EA Cable Distribution Spool Spacer Kit For Vertical Cable Managers (Chatsworth 35505-001)	95.23 15.39

**27 11 19 Communications Termination Blocks and Patch Panels** (27 11)

Note: The terminating, testing, and labeling of the cables in question should be done according to the task description as well as the current contract specifications. See CSI section 26 05 53 00-0020 for labeling.

**27 11 19 00-0001 Computer Network Components** (27 11 19)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 11 19 00-0002 Ethernet Patch Panels</b> (27 11 19 00-0001)		
27 11 19 00-0003 EA 12 Port, Category 5E Patch Panel.....	333.76	76.91
27 11 19 00-0004 EA 24 Port, Category 5E Patch Panel.....	487.29	76.91
27 11 19 00-0005 EA 32 Port, Category 5E Patch Panel.....	632.56	76.91
27 11 19 00-0006 EA 48 Port, Category 5E Patch Panel.....	767.93	76.91
27 11 19 00-0007 EA 64 Port, Category 5E Patch Panel.....	891.52	96.14
27 11 19 00-0008 EA 96 Port, Category 5E Patch Panel.....	1,412.72	115.36
27 11 19 00-0009 EA 12 Port, Category 6 Patch Panel.....	407.55	76.91
27 11 19 00-0010 EA 24 Port, Category 6 Patch Panel.....	497.19	76.91
27 11 19 00-0011 EA 48 Port, Category 6 Patch Panel.....	840.56	76.91
27 11 19 00-0012 EA 96 Port, Category 6 Patch Panel.....	1,551.39	115.36
27 11 19 00-0013 EA 16" x 12" x 8" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161208LP).....	814.66	115.36
27 11 19 00-0014 EA 16" x 16" x 6" Steel Enclosure, Type 12, Hinged, Lockable (Hoffman A161606LP).....	860.36	115.36
27 11 19 00-0015 EA 12 Port, Category 6 Modular to 110 Mini Patch Panel (Ortronics-Legrand OR-PMP61289).....	348.19	76.91
27 11 19 00-0016 EA Terminate One End Of A 4 Pair Cable To Category "X" Specifications.....	54.51	
For >5 To 10 Cables, Deduct	-9.81	
For >10 Cables, Deduct	-21.80	
27 11 19 00-0017 EA Terminate One End Of A Twisted Pair Of Wires.....	14.99	
Note: Per each pair		
For >20 To 40 Pairs, Deduct	-2.40	
For >40 Pairs, Deduct	-5.70	
<b>27 11 19 00-0018 Fiber Optic Cable Patch Panels And Enclosures</b> (27 11 19 00-0001)		
<b>27 11 19 00-0019 Fiber Optic Cable Connector Housings</b> (27 11 19 00-0018)		
<b>27 11 19 00-0020 Wall Mount, Fiber Optic Cable Connector Housings</b> (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0021 EA 1-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing.....	179.45	34.61
27 11 19 00-0022 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing.....	265.24	34.61
27 11 19 00-0023 EA 4-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing.....	392.18	34.61
27 11 19 00-0024 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing.....	579.67	57.68
27 11 19 00-0025 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Connector Housing.....	805.65	57.68
<b>27 11 19 00-0026 Rack Mount, Fiber Optic Cable Connector Housings</b> (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0027 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing.....	602.84	57.68
27 11 19 00-0028 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing.....	688.99	57.68
27 11 19 00-0029 EA 6-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing.....	741.69	57.68
27 11 19 00-0030 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Connector Housing.....	869.04	57.68
<b>27 11 19 00-0031 Rack Mount, Fiber Optic Cable Pretium® Connector Housings</b> (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0032 EA 2-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing.....	750.50	57.68
For Splice Tray Bracket, Add	79.77	
27 11 19 00-0033 EA 4-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing.....	878.67	57.68
For Splice Tray Bracket, Add	87.23	
27 11 19 00-0034 EA 12-Panel Capacity, Rack Mount, Fiber Optic Cable Pretium® Connector Housing.....	1,094.66	57.68
For Splice Tray Bracket, Add	317.79	
<b>27 11 19 00-0035 Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housings</b> (27 11 19 00-0019)		
Note: Includes mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0036 EA 8 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	952.19	57.68
27 11 19 00-0037 EA 12 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	1,216.66	57.68
27 11 19 00-0038 EA 24 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	1,376.97	57.68
27 11 19 00-0039 EA 48 Pretium Edge® Module Or Panel Capacity, Rack Mount, Fiber Optic Cable Pretium Edge® Connector Housing.....	1,785.84	57.68
<b>27 11 19 00-0040 Wall Mount, Fiber Optic Cable Industrial Connector Housings</b> (27 11 19 00-0019)		
Note: Includes powder-coat finish, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0041 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	848.72	34.61
27 11 19 00-0042 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	1,174.53	57.68
27 11 19 00-0043 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Industrial Connector Housing.....	1,232.39	57.68
<b>27 11 19 00-0044 Wall Mount, Fiber Optic Cable Environmental Connector Housings</b> (27 11 19 00-0019)		
Note: Includes NEMA 4X enclosure, pad lockable outer door and mounting hardware. Excludes connector panels. See CSI section 27 11 19 00-0048 for connector panels.		
27 11 19 00-0045 EA 2-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	888.71	34.61
27 11 19 00-0046 EA 6-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	1,173.82	57.68
27 11 19 00-0047 EA 12-Panel Capacity, Wall Mount, Fiber Optic Cable Environmental Connector Housing.....	1,378.54	57.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 11 19 00-0048</b> Fiber Optic Cable Connector Panels <small>(27 11 19 00-0018)</small>		
<b>27 11 19 00-0049</b> SC Simplex, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0050 EA 6-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	116.98	7.69
27 11 19 00-0051 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	126.91	7.69
27 11 19 00-0052 EA 8-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	142.32	7.69
27 11 19 00-0053 EA 8-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	155.56	7.69
27 11 19 00-0054 EA 12-Fiber, Multimode, SC Simplex, Fiber Optic Cable Connector Panel.....	193.06	7.69
27 11 19 00-0055 EA 12-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel.....	212.86	7.69
<b>27 11 19 00-0056</b> SC Duplex, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0057 EA 6-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	112.59	7.69
27 11 19 00-0058 EA 6-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	114.92	7.69
27 11 19 00-0059 EA 8-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	136.51	7.69
27 11 19 00-0060 EA 8-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	139.61	7.69
27 11 19 00-0061 EA 12-Fiber, Multimode, SC Duplex, Fiber Optic Cable Connector Panel.....	184.33	7.69
27 11 19 00-0062 EA 12-Fiber, Singlemode, SC Duplex, Fiber Optic Cable Connector Panel.....	188.94	7.69
<b>27 11 19 00-0063</b> LC Duplex, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0064 EA 6-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	121.55	7.69
27 11 19 00-0065 EA 6-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	133.25	7.69
27 11 19 00-0066 EA 8-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	148.41	7.69
27 11 19 00-0067 EA 8-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	164.03	7.69
27 11 19 00-0068 EA 12-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	202.20	7.69
27 11 19 00-0069 EA 12-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	225.58	7.69
27 11 19 00-0070 EA 16-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	255.97	7.69
27 11 19 00-0071 EA 16-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	287.13	7.69
27 11 19 00-0072 EA 24-Fiber, Multimode, LC Duplex, Fiber Optic Cable Connector Panel.....	363.49	7.69
27 11 19 00-0073 EA 24-Fiber, Singlemode, LC Duplex, Fiber Optic Cable Connector Panel.....	374.35	7.69
<b>27 11 19 00-0074</b> ST Simplex, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0075 EA 6-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	97.31	7.69
27 11 19 00-0076 EA 6-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	104.82	7.69
27 11 19 00-0077 EA 8-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	116.12	7.69
27 11 19 00-0078 EA 8-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	126.14	7.69
27 11 19 00-0079 EA 12-Fiber, Multimode, ST Simplex, Fiber Optic Cable Connector Panel.....	153.71	7.69
27 11 19 00-0080 EA 12-Fiber, Singlemode, ST Simplex, Fiber Optic Cable Connector Panel.....	168.76	7.69
<b>27 11 19 00-0081</b> MT-RJ, Fiber Optic Cable Connector Panels <small>(27 11 19 00-0048)</small>		
27 11 19 00-0082 EA 12-Fiber, Multimode, MT-RJ, Fiber Optic Cable Connector Panel.....	120.85	7.69
27 11 19 00-0083 EA 12-Fiber, Singlemode, MT-RJ, Fiber Optic Cable Connector Panel.....	180.59	7.69
<b>27 11 19 00-0084</b> Fiber Optic Cable Pretium Edge® Modules <small>(27 11 19 00-0048)</small>		
27 11 19 00-0085 EA 12-Fiber, Singlemode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	1,037.75	7.69
27 11 19 00-0086 EA 12-Fiber, Multimode, LC Duplex To MTP, Fiber Optic Cable Pretium Edge® Module.....	1,041.35	7.69
<b>27 11 19 00-0087</b> Fiber Optic Cable Splice Housings <small>(27 11 19 00-0018)</small>		
<b>27 11 19 00-0088</b> Wall Mount, Fiber Optic Cable Splice Housings <small>(27 11 19 00-0087)</small>		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0089 EA 12 Splice Tray Capacity, Wall Mount, Fiber Optic Splice Housing With Locking Door.....	420.15	76.91
<b>27 11 19 00-0090</b> Rack Mount, Fiber Optic Cable Splice Housings <small>(27 11 19 00-0087)</small>		
Note: Includes mounting hardware. Excludes splice trays.		
27 11 19 00-0091 EA 12 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	625.53	57.68
27 11 19 00-0092 EA 22 Splice Tray Capacity, Rack Mount, Fiber Optic Cable Splice Housing.....	634.91	57.68
<b>27 11 19 00-0093</b> Fiber Optic Cable Splice Trays <small>(27 11 19 00-0087)</small>		
27 11 19 00-0094 EA Fiber Optic Cable Splice Tray.....	119.96	19.22
<b>27 11 19 00-0095</b> Fiber Optic Cable Jumper Management Panels <small>(27 11 19 00-0018)</small>		
Note: Includes mounting hardware.		
27 11 19 00-0096 EA Rack Mount, Fiber Optic Cable Jumper Management Panel.....	234.44	57.68
<b>27 11 19 00-0097</b> Miscellaneous Accessories <small>(27 11 19 00-0001)</small>		
27 11 19 00-0098 EA Wall Mount Bracket For 12 Or 24 Port Patch Panel.....	86.76	
27 11 19 00-0099 EA Wall Mount Bracket For 32 Or 48 Port Patch Panel.....	115.40	
27 11 19 00-0100 EA Wall Mount Bracket For 64 Or 72 Port Patch Panel.....	126.10	
27 11 19 00-0101 EA Wall Mount Bracket For 96 Port Patch Panel.....	140.58	
27 11 19 00-0102 EA Lightning Protection Plus Stainless Steel Modules, Siemon.....	558.61	76.91

<b>27</b>	<b>27</b>	<b>Communications</b>
	<b>27 10</b>	<b>Structured Cabling</b>
	<b>27 11</b>	<b>Communications Equipment Room Fittings</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 11 19 00-0103			<b>Telephone Components</b> <small>(27 11 19)</small>		
27 11 19 00-0104			<b>Terminal Blocks With Wide Range Of 22-8 AWG</b> <small>(27 11 19 00-0103)</small>		
27 11 19 00-0105	EA		Terminal Block, Circuit Isolation Switch With Wire Range 22-8 AWG .....	42.77	15.41
27 11 19 00-0106	EA		Terminal Block, Fuse Holder 600 Volt, 6.3 Amperes With Wire Range 22-8 AWG.....	75.99	15.41
27 11 19 00-0107	EA		Terminal Block, Fuse Holder 600 Volt, 10 Amperes With Wire Range 22-8 AWG.....	62.39	15.41
27 11 19 00-0108	EA		Terminal Block, Solderless Box With Lugs And Wire Range 22-8 AWG.....	33.91	15.41
27 11 19 00-0109	EA		Flat Terminal Block Connection With Wire Range 22-8 AWG .....	24.12	10.78
27 11 19 00-0110	EA		Ground Terminal Block With Wire Range 22-8 AWG .....	44.21	15.41
27 11 19 00-0111	EA		Terminal Block, Solderless Box With Lug 600 Volt, 60 Amperes With Wire Range 22-8 AWG .....	33.91	15.41
27 11 19 00-0112	EA		Terminal Block, Mini Box Lug 300 Volt, 30 Amperes With Wire Range 22-8 AWG .....	23.91	10.78
27 11 19 00-0113	EA		Flat Terminal Block Connection 300 Volt, 20 Amperes With Wire Range 22-8 AWG .....	23.76	10.78
27 11 19 00-0114	EA		Self Lifting Terminal Block, 300 Volt, 40 Amperes, Wire Connection With Wire Range 22-12 AWG .....	24.42	10.78
27 11 19 00-0115			<b>Terminal Block Mounting Channel</b> <small>(27 11 19 00-0103)</small>		
27 11 19 00-0116	EA		Terminal Block Mounting Channel, .5 M Galvanized Steel .....	22.44	7.70
27 11 19 00-0117	EA		Terminal Block Mounting Channel, 1 M Galvanized Steel .....	28.17	7.70
27 11 19 00-0118	EA		Terminal Block Mounting Channel, 2 M Galvanized Steel .....	38.17	7.70
27 11 19 00-0119	EA		Terminal Block Mounting Channel, .5 M Bi-Chrome Zinc .....	28.30	9.24
27 11 19 00-0120	EA		Terminal Block Mounting Channel, 1 M Bi-Chrome Zinc .....	37.79	9.24
27 11 19 00-0121	EA		Terminal Block Mounting Channel, 2 M Bi-Chrome Zinc .....	53.26	9.24
27 11 19 00-0122			<b>Outlet Termination Hardware</b> <small>(27 11 19 00-0103)</small>		
27 11 19 00-0123	EA		Telephone Outlet Blocks.....	40.44	7.70
27 11 19 00-0124	EA		Phone Outlet Block For Floor Box .....	127.18	58.45
			Note: Excludes box.		
27 11 19 00-0125	EA		Fiber Optic "SC" Type Modular Bulkhead .....	105.22	34.61
27 11 19 00-0126	EA		Fiber Optic "ST" Type Modular Bulkhead .....	105.22	34.61
27 11 19 00-0127	EA		Type "F" Coaxial Connector Male.....	62.65	23.07
27 11 19 00-0128	EA		Modular Plate For 3-RJ-45, 4 - "SC" And 1 -"F" Connector .....	153.42	38.46
27 11 19 00-0129	EA		Modular Plate For 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	153.42	38.46
27 11 19 00-0130	EA		Access Floor Box With 3-RJ-45, 4 - "SC" And 1 -"F" Connector.....	181.93	38.46
27 11 19 00-0131	EA		Access Floor Box With 3-RJ-45, 4 - "ST" And 1 -"F" Connector.....	181.93	38.46
27 11 19 00-0132	EA		Access Floor Box With 2-RJ-45, 4 - "SC" And 1 -25 Pin Connector .....	166.92	38.46
27 11 19 00-0133	EA		Terminal Type - Punch Down Block 110 Type - 300 Pair Category 5.....	1,392.71	192.28
27 11 19 00-0134	EA		Wiring (Punch Down) Block with Stand-Off Legs, 100 Pair, Category V.....	72.76	15.39
			Note: Excludes cable terminations.		
27 11 19 00-0135	EA		5-Pair, Connecting Block .....	4.49	1.54
27 11 19 00-0136	EA		4-Pair, Connecting Block .....	4.81	1.54
27 11 19 00-0137	EA		Plastic Label Holder, Transparent.....	18.35	3.85
27 11 19 00-0138	EA		Marked Label, White, 5-Pair .....	5.11	
27 11 19 00-0139	EA		Marked Label, Blue, 4-Pair .....	5.11	
27 11 19 00-0140			<b>Terminations in Manhole or Junction Box</b> <small>(27 11 19 00-0103)</small>		
27 11 19 00-0141	EA		25 Pair Cable Termination In Manhole Or Junction Box .....	246.12	
27 11 19 00-0142	EA		50 Pair Cable Termination In Manhole Or Junction Box .....	492.23	
27 11 19 00-0143	EA		100 Pair Cable Termination In Manhole Or Junction Box .....	984.46	
27 11 19 00-0144	EA		150 Pair Cable Termination In Manhole Or Junction Box .....	1,476.69	
27 11 19 00-0145	EA		200 Pair Cable Termination In Manhole Or Junction Box .....	1,727.41	
27 11 19 00-0146	EA		300 Pair Cable Termination In Manhole Or Junction Box.....	2,590.36	
27 11 19 00-0147	EA		400 Pair Cable Termination In Manhole Or Junction Box.....	3,257.93	
27 11 19 00-0148	EA		500 Pair Cable Termination In Manhole Or Junction Box .....	4,073.19	
27 11 19 00-0149	EA		750 Pair Cable Termination In Manhole Or Junction Box.....	6,109.75	
27 11 19 00-0150	EA		1,000 Pair Cable Termination In Manhole Or Junction Box.....	7,409.51	
27 11 19 00-0151	EA		1,200 Pair Cable Termination In Manhole Or Junction Box.....	8,444.86	
27 11 23			<b>Communications Cable Management and Ladder Rack</b> <small>(27 11)</small>		
27 11 23 00-0001			<b>Equipment Supports</b> <small>(27 11 23)</small>		
27 11 23 00-0002	EA		110 Jumper Trough (Commscope 107831133).....	42.17	7.69
27 11 23 00-0003	LF		Velcro CMP.....	3.61	1.54
27 11 23 00-0004	EA		12" x 5'-11" Tubular Runway.....	138.34	36.91
27 11 23 00-0005	EA		12" x 9'-11" Tubular Runway.....	238.67	61.53
27 11 23 00-0006	EA		Shelf Bracket Support For Tubular Runway.....	43.91	11.54
27 11 23 00-0007	EA		Straight Clamp Hardware For Tubular Runway .....	19.70	7.69
27 11 23 00-0008	EA		Corner Clamp Hardware For Tubular Runway.....	20.77	7.69
27 11 23 00-0009	EA		90 Degree Edge Clamp Hardware For Tubular Runway.....	46.39	13.84
27 11 23 00-0010	EA		Wall Angle Assembly Hardware For 12" Wide Tubular Runway.....	96.68	23.07
27 11 23 00-0011	EA		J-Bolt Hardware For Tubular Runway.....	9.16	3.39
27 11 23 00-0012	EA		T Bracket Hardware For Tubular Runway.....	50.79	19.22
27 13			<b>Communications Backbone Cabling</b> <small>(27 10)</small>		
27 13 13			<b>Communications Copper Backbone Cabling</b> <small>(27 13)</small>		





<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Backbone Cabling</b>	<b>27 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**27 13 13 13 Communications Copper Cable Splicing and Terminations (27 13 13)**

**27 13 13 13-0001 Modular Plugs For Copper Communications Cable (27 13 13 13)**

27 13 13 13-0002	EA	Modular Plug For Non-Shielded Copper Communications Cable.....	36.35	
		Note: Up to 8-position/8-contact non-shielded modular plug for solid or stranded wire. Includes termination.		
		For >5 To 10, Deduct	-4.61	
		For >10, Deduct	-9.21	
27 13 13 13-0003	EA	Modular Plug For Shielded Copper Communications Cable.....	41.39	
		Note: Up to 8-position/8-contact shielded modular plug for solid or stranded wire. Includes termination.		
		For >5 To 10, Deduct	-5.18	
		For >10, Deduct	-10.37	

**27 13 13 13-0004 Communications Termination Blocks (27 13 13 13)**

27 13 13 13-0005	EA	100-Pair, 110 Block With Legs.....	69.39	19.22
27 13 13 13-0006	EA	300-Pair, 110 Block With Legs.....	114.38	19.22
27 13 13 13-0007	EA	Clear Label Holder For 110 Wiring Block.....	16.26	7.69
27 13 13 13-0008	EA	4-Pair, 110C Connecting Block.....	9.05	3.85
27 13 13 13-0009	EA	5-Pair, 110C Connecting Block.....	9.22	3.85
27 13 13 13-0010	EA	100-Pair, 110 Jack Panel System.....	356.12	23.07
		Note: Includes twelve 8-pin modular jacks and mounting legs.		
27 13 13 13-0011	EA	300-Pair, 110 Jack Panel System.....	666.74	23.07
		Note: Includes twelve 8-pin modular jacks and mounting legs.		

**27 13 13 13-0012 Testing And Certification Of Copper Communications Cable (27 13 13 13)**

		Note: Use for existing systems.		
27 13 13 13-0013	EA	Test 1-Pair Of A Copper Communications Cable For Continuity.....	7.69	
		For >25-Pair, Deduct	-3.07	
27 13 13 13-0014	EA	Certify 1-Pair Of A Copper Communications Cable.....	11.54	
		For >25-Pair, Deduct	-4.61	
27 13 13 13-0015	EA	Certify And Document 1-Pair Of A Copper Communications Cable.....	18.46	
		For >25-Pair, Deduct	-7.37	
27 13 13 13-0016	EA	Test 4-Pair Category 5-7 Telecommunications Cable For Continuity.....	30.76	
		For >25-Pair, Deduct	-12.28	
27 13 13 13-0017	EA	Certify 4-Pair Category 5-7 Telecommunications Cable.....	46.15	
		For >25-Pair, Deduct	-18.43	
27 13 13 13-0018	EA	Certify And Document 4-Pair Category 5-7 Telecommunications Cable.....	73.84	
		For >25-Pair, Deduct	-29.48	

**27 13 13 13-0019 Building Entrance Terminals (27 13 13 13)**

27 13 13 13-0020	EA	25 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	3,009.38	337.33
27 13 13 13-0021	EA	50 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	4,038.05	562.21
27 13 13 13-0022	EA	100 Pair Gas Protective Unit Assembly Complete With Gas Protector.....	5,738.85	900.23

**27 13 23 Communications Optical Fiber Backbone Cabling (27 13)**

**27 13 23 13 Communications Optical Fiber Splicing and Terminations (27 13 23)**

**27 13 23 13-0001 Fiber Optic Cable Splice Closures (27 13 23 13)**

		Note: Includes mounting hardware. Excludes splicing and splice trays.		
27 13 23 13-0002	EA	Up To 144-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,041.13	153.82
27 13 23 13-0003	EA	Up To 144-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	1,348.76	307.65
27 13 23 13-0004	EA	Up To 144-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	1,348.76	307.65
27 13 23 13-0005	EA	Up To 288-Fiber Capacity, Pedestal Fiber Optic Cable Splice Closure.....	1,704.81	153.82
27 13 23 13-0006	EA	Up To 288-Fiber Capacity, Underground Fiber Optic Cable Splice Closure.....	2,012.44	307.65
27 13 23 13-0007	EA	Up To 288-Fiber Capacity, Aerial Fiber Optic Cable Splice Closure.....	2,012.44	307.65
27 13 23 13-0008	EA	Splice Tray For Fiber Optic Cable Splice Closure.....	75.43	19.22
		Note: Up to 12-fiber, mechanical or fusion splice tray. Excludes splice.		

**27 13 23 13-0009 Fiber Optic Cable Splicing (27 13 23 13)**

27 13 23 13-0010	EA	Single Strand, Fusion Splice Of Fiber Optic Cable.....	46.15	
27 13 23 13-0011	EA	12-Strand Ribbon, Fusion Splice Of Fiber Optic Cable.....	153.82	

**27 13 23 13-0012 Fiber Optic Cable Testing (27 13 23 13)**

Note: Price based on testing one wavelength.

**27 13 23 13-0013 Fiber Optic Cable Testing Using An OTDR (27 13 23 13-0012)**

		Note: Testing using an optical time domain reflectometer.		
27 13 23 13-0014	EA	Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test.....	30.76	
		For >12 To 48 Strands, Deduct	-2.31	
		For >48 Strands, Deduct	-3.08	
27 13 23 13-0015	EA	Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test.....	46.15	
		For >12 To 48 Strands, Deduct	-3.46	
		For >48 Strands, Deduct	-4.62	
27 13 23 13-0016	EA	Test 1-Strand Of Fiber Optic Cable Using A Single Directional OTDR Test With Documentation.....	76.91	
		For >12 To 48 Strands, Deduct	-5.77	
		For >48 Strands, Deduct	-7.69	

<b>27</b>	<b>27</b>	<b>Communications</b>
	<b>27 10</b>	<b>Structured Cabling</b>
	<b>27 13</b>	<b>Communications Backbone Cabling</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 13 23 13-0017	EA	Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional OTDR Test With Documentation ..... <i>For &gt;12 To 48 Strands, Deduct</i> <i>For &gt;48 Strands, Deduct</i>	115.36 -8.65 -11.54	
<b>27 13 23 13-0018</b>		<b>Fiber Optic Cable Testing Using A Power Meter</b> (27 13 23 13-0012)		
27 13 23 13-0019	EA	Test 1-Strand Of Fiber Optic Cable Using A Single Directional Power Meter Test ..... <i>For &gt;12 To 48 Strands, Deduct</i> <i>For &gt;48 Strands, Deduct</i>	30.76 -2.31 -3.08	
27 13 23 13-0020	EA	Test 1-Strand Of Fiber Optic Cable Using A Multi-Directional Power Meter Test ..... <i>For &gt;12 To 48 Strands, Deduct</i> <i>For &gt;48 Strands, Deduct</i>	46.15 -3.46 -4.62	
<b>27 13 23 13-0021</b>		<b>Fiber Optic Cable Light Source/Continuity Testing</b> (27 13 23 13-0012)		
27 13 23 13-0022	EA	Test 1-Strand Of Fiber Optic Cable Using A Light Source/Continuity Test ..... <i>For &gt;12 To 48 Strands, Deduct</i> <i>For &gt;48 Strands, Deduct</i>	30.76 -2.31 -3.08	
<b>27 13 23 13-0023</b>		<b>Other Fiber Optic Cable Splicing</b> (27 13 23 13)		
27 13 23 13-0024	EA	Fiber Optic Finger Splice .....	48.76	28.92
27 13 23 13-0025	EA	Fiber Optic Splice Box - Manholes.....	5,955.82	
<b>27 13 23 13-0026</b>		<b>Fiber Optic Cable Fan Out Kits</b> (27 13 23 13)		
<b>27 13 23 13-0027</b>		<b>Buffer Tube Fan Out Kits For Fiber Optic Cable</b> (27 13 23 13-0026)		
27 13 23 13-0028	EA	6-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable .....	327.36	
27 13 23 13-0029	EA	12-Fiber, Indoor Buffer Tube Fan Out Kit For Fiber Optic Cable .....	331.13	
27 13 23 13-0030	EA	6-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable .....	362.93	
27 13 23 13-0031	EA	12-Fiber, Outdoor Buffer Tube Fan Out Kit For Fiber Optic Cable.....	386.78	
<b>27 13 23 13-0032</b>		<b>Spider Fan Out Kits For Fiber Optic Cable</b> (27 13 23 13-0026) Note: For tight buffered or loose tube non-armored cables. Includes aramid yarn strength member, outer protective PVDF jacket and one meter fan out lengths.		
27 13 23 13-0033	EA	6-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	373.75	
27 13 23 13-0034	EA	12-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	399.02	
27 13 23 13-0035	EA	18-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	585.87	
27 13 23 13-0036	EA	24-Fiber, Spider Fan Out Kit For Fiber Optic Cable.....	764.96	
<b>27 15</b>		<b>Communications Horizontal Cabling</b> (27 10)		
<b>27 15 01</b>		<b>Communications Horizontal Cabling Applications</b> (27 15)		
<b>27 15 01 13</b>		<b>Video Surveillance Communications Conductors and Cables</b> (27 15 01) Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables.		
<b>27 15 01 15</b>		<b>Access Control Communications Conductors and Cables</b> (27 15 01) Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables.		
<b>27 15 01 16</b>		<b>Voice Communications Horizontal Cabling</b> (27 15 01) Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables.		
<b>27 15 01 17</b>		<b>Intrusion Detection Communications Conductors and Cables</b> (27 15 01) Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc. See CSI section 26 05 19 00-0000 for low-voltage electrical power cable, 26 05 23 00-0000 for control-voltage electrical power cable, 27 13 00 00-0000 for conductors and cables, 27 15 01 19-0000 for Type FPLP Cable.		
<b>27 15 01 19</b>		<b>Fire Alarm Communications Conductors and Cables</b> (27 15 01) Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
27 15 01 19-0001		Fire Alarm/Life Safety Cable (27 15 01 19)		
27 15 01 19-0002		Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable (27 15 01 19-0001)		
27 15 01 19-0003		Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit (27 15 01 19-0002)		
27 15 01 19-0004	MLF	1-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,334.06	1,046.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 01 19-0005 MLF 2-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,788.17	1,084.44
27 15 01 19-0006 MLF 1-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,660.04	1,189.66
27 15 01 19-0007 MLF 2-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,376.98	1,232.11
27 15 01 19-0008 MLF 1-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,042.47	1,331.78
27 15 01 19-0009 MLF 2-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	4,058.75	1,379.78
27 15 01 19-0010 MLF 1-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,826.21	1,522.84
27 15 01 19-0011 MLF 2-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	5,397.38	1,577.13
<b>27 15 01 19-0012 Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed</b> <small>(27 15 01 19-0002)</small>		
27 15 01 19-0013 MLF 1-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,078.41	2,093.51
27 15 01 19-0014 MLF 2-Pair, 18 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,595.58	2,168.88
27 15 01 19-0015 MLF 1-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,642.80	2,379.62
27 15 01 19-0016 MLF 2-Pair, 16 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,430.49	2,464.22
27 15 01 19-0017 MLF 1-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,262.12	2,664.19
27 15 01 19-0018 MLF 2-Pair, 14 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	6,358.38	2,759.55
27 15 01 19-0019 MLF 1-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	6,364.26	3,045.66
27 15 01 19-0020 MLF 2-Pair, 12 AWG, Twisted Pair, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	8,026.19	3,154.88
<b>27 15 01 19-0021 Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit</b> <small>(27 15 01 19-0001)</small>		
27 15 01 19-0022 MLF 2 Conductors, #22 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,555.74	856.47
27 15 01 19-0023 MLF 4 Conductors, #22 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,667.12	886.94
27 15 01 19-0024 MLF 2 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,894.45	1,046.61
27 15 01 19-0025 MLF 3 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,000.95	1,065.52
27 15 01 19-0026 MLF 4 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,068.15	1,084.44
27 15 01 19-0027 MLF 6 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,276.58	1,122.28
27 15 01 19-0028 MLF 8 Conductors, #18 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,569.23	1,160.12
27 15 01 19-0029 MLF 2 Conductors, #16 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,198.01	1,189.66
27 15 01 19-0030 MLF 4 Conductors, #16 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,430.78	1,232.11
27 15 01 19-0031 MLF 2 Conductors, #14 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,528.13	1,331.78
27 15 01 19-0032 MLF 4 Conductors, #14 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,884.61	1,379.78
27 15 01 19-0033 MLF 2 Conductors, #12 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,045.52	1,522.84
27 15 01 19-0034 MLF 4 Conductors, #12 AWG, Shielded, Non-Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,611.48	1,577.13
<b>27 15 01 19-0035 Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable</b> <small>(27 15 01 19-0001)</small>		
<b>27 15 01 19-0036 Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit</b> <small>(27 15 01 19-0035)</small>		
27 15 01 19-0037 MLF 2/c #22 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,545.64	856.47
27 15 01 19-0038 MLF 2/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,887.89	1,046.61
27 15 01 19-0039 MLF 3/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,064.34	1,065.52
27 15 01 19-0040 MLF 4/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,085.70	1,084.44
27 15 01 19-0041 MLF 6/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,368.18	1,122.28
27 15 01 19-0042 MLF 2/c #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,188.10	1,189.66

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 01 19-0043 MLF 4/c #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,453.02	1,232.11
27 15 01 19-0044 MLF 2/c #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,483.52	1,331.78
27 15 01 19-0045 MLF 4/c #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	3,061.90	1,379.78
27 15 01 19-0046 MLF 2/c #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	3,030.94	1,522.84
27 15 01 19-0047 MLF 4/c #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	3,880.63	1,577.13
<b>27 15 01 19-0048 Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed</b> <small>(27 15 01 19-0035)</small>		
27 15 01 19-0049 MLF 2/c #22 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	2,973.11	1,713.57
27 15 01 19-0050 MLF 2/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,632.24	2,093.51
27 15 01 19-0051 MLF 3/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,839.44	2,130.43
27 15 01 19-0052 MLF 4/c #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,893.11	2,168.88
27 15 01 19-0053 MLF 6 Conductors, #18 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,238.65	2,244.25
27 15 01 19-0054 MLF 2 Conductors, #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,170.86	2,379.62
27 15 01 19-0055 MLF 4/c #16 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,506.53	2,464.22
27 15 01 19-0056 MLF 2 Conductors, #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,703.17	2,664.19
27 15 01 19-0057 MLF 4 Conductors, #14 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	5,361.53	2,759.55
27 15 01 19-0058 MLF 2 Conductors, #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	5,568.99	3,045.66
27 15 01 19-0059 MLF 4 Conductors, #12 AWG, Non-Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	6,509.44	3,154.88
<b>27 15 01 19-0060 Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable</b> <small>(27 15 01 19-0001)</small>		
<b>27 15 01 19-0061 Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit</b> <small>(27 15 01 19-0060)</small>		
27 15 01 19-0062 MLF 2 Conductors, #22 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,587.20	856.47
27 15 01 19-0063 MLF 2 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	1,917.56	1,046.61
27 15 01 19-0064 MLF 3 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,174.51	1,065.52
27 15 01 19-0065 MLF 4 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,116.08	1,084.44
27 15 01 19-0066 MLF 6 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,399.24	1,122.28
27 15 01 19-0067 MLF 2 Conductors, #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,256.31	1,189.66
27 15 01 19-0068 MLF 4 Conductors, #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,484.57	1,232.11
27 15 01 19-0069 MLF 2 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,630.63	1,331.78
27 15 01 19-0070 MLF 4 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	2,988.14	1,379.78
27 15 01 19-0071 MLF 2 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	3,139.80	1,522.84
27 15 01 19-0072 MLF 4 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed In Conduit.....	3,656.67	1,577.13
<b>27 15 01 19-0073 Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed</b> <small>(27 15 01 19-0060)</small>		
27 15 01 19-0074 MLF 2 Conductors, #22 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,014.67	1,713.57
27 15 01 19-0075 MLF 2 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,661.91	2,093.51
27 15 01 19-0076 MLF 3 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,949.61	2,130.43
27 15 01 19-0077 MLF 4 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	3,923.49	2,168.88
27 15 01 19-0078 MLF 6 Conductors, #18 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,269.71	2,244.25
27 15 01 19-0079 MLF 2/c #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,239.07	2,379.62
27 15 01 19-0080 MLF 4/c #16 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,538.08	2,464.22
27 15 01 19-0081 MLF 2/c #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed.....	4,850.28	2,664.19



<b>Communications</b>	<b>27</b>	
<b>Structured Cabling</b>	<b>27 10</b>	<b>27</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 01 19-0082 MLF 4 Conductors, #14 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,287.77	2,759.55
27 15 01 19-0083 MLF 2 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,677.85	3,045.66
27 15 01 19-0084 MLF 4 Conductors, #12 AWG, Shielded, Plenum Rated, Solid Type FPLP (Red), Fire Alarm/Life Safety Cable, Installed Exposed	6,285.48	3,154.88
<b>27 15 01 19-0085 Non-Shielded, Riser Rated, FPLR (Red), Fire Alarm/Life Safety Cable</b> <small>(27 15 01 19-0001)</small>		
<b>27 15 01 19-0086 Non-Shielded, Riser Rated, FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit</b> <small>(27 15 01 19-0085)</small>		
27 15 01 19-0087 MLF 2 Conductors, #22 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,555.58	856.47
27 15 01 19-0088 MLF 2 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	1,946.94	1,046.61
27 15 01 19-0089 MLF 3 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,078.94	1,065.52
27 15 01 19-0090 MLF 4 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,190.67	1,084.44
27 15 01 19-0091 MLF 6 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,434.40	1,122.28
27 15 01 19-0092 MLF 2 Conductors, #16 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,239.71	1,189.66
27 15 01 19-0093 MLF 4 Conductors, #16 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,569.59	1,232.11
27 15 01 19-0094 MLF 2 Conductors, #14 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	2,600.93	1,331.78
27 15 01 19-0095 MLF 4 Conductors, #14 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,183.68	1,379.78
27 15 01 19-0096 MLF 2 Conductors, #12 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed In Conduit	3,100.01	1,522.84
<b>27 15 01 19-0097 Non-Shielded, Riser Rated, FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed</b> <small>(27 15 01 19-0085)</small>		
27 15 01 19-0098 MLF 2 Conductors, #22 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	2,983.05	1,713.57
27 15 01 19-0099 MLF 2 Conductors, #18 AWG, Non-Shielded, Riser Rated, Solid Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,691.29	2,093.51
27 15 01 19-0100 MLF 3 Conductors, #18 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,854.04	2,130.43
27 15 01 19-0101 MLF 4 Conductors, #18 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	3,998.08	2,168.88
27 15 01 19-0102 MLF 6 Conductors, #18 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,304.87	2,244.25
27 15 01 19-0103 MLF 2 Conductors, #16 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,222.47	2,379.62
27 15 01 19-0104 MLF 4 Conductors, #16 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,623.10	2,464.22
27 15 01 19-0105 MLF 2 Conductors, #14 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	4,820.58	2,664.19
27 15 01 19-0106 MLF 4 Conductors, #14 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,483.31	2,759.55
27 15 01 19-0107 MLF 2 Conductors, #12 AWG, Non-Shielded, Riser Rated, Stranded Type FPLR (Red), Fire Alarm/Life Safety Cable, Installed Exposed	5,638.06	3,045.66
<b>27 15 13 Communications Copper Horizontal Cabling</b> <small>(27 15)</small>		
<small>Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.</small>		
27 15 13 00-0001 Copper Telecommunications Cable <small>(27 15 13)</small>		
27 15 13 00-0002 Indoor Telecommunications Cable <small>(27 15 13 00-0001)</small>		
<small>Note: Shielded twisted pair cables (STP) includes a metallic foil wrap. Un-shielded twisted pair cables (UTP) excludes any shielding.</small>		
27 15 13 00-0003 Category 3, Indoor Telecommunications Cable <small>(27 15 13 00-0002)</small>		
<small>Note: Un-shielded twisted pair cables (UTP).</small>		
27 15 13 00-0004 Category 3, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0003)</small>		
27 15 13 00-0005 24 AWG, Category 3, Indoor Telecommunications Riser Cable <small>(27 15 13 00-0004)</small>		
27 15 13 00-0006 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit <small>(27 15 13 00-0005)</small>		
27 15 13 00-0007 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,183.58	646.05
27 15 13 00-0008 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,229.17	646.05
27 15 13 00-0009 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,245.28	646.05
27 15 13 00-0010 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,489.83	738.35
27 15 13 00-0011 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	1,825.44	738.35
27 15 13 00-0012 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	2,358.34	738.35
27 15 13 00-0013 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit	3,673.52	922.93

**27 Communications**  
**27 10 Structured Cabling**  
**27 15 Communications Horizontal Cabling**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0014 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	6,578.10	1,476.69
27 15 13 00-0015 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	8,791.81	1,661.27
27 15 13 00-0016 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	11,558.21	1,845.86
27 15 13 00-0017 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	16,866.08	2,584.20
27 15 13 00-0018 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	22,040.40	3,193.33
27 15 13 00-0019 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	34,710.78	4,430.06
27 15 13 00-0020 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	56,946.00	8,860.12
27 15 13 00-0021 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	77,844.52	13,290.17
<b>27 15 13 00-0022 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed</b> <small>(27 15 13 00-0005)</small>		
27 15 13 00-0023 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed .....	2,260.33	1,292.10
<i>For Work In Restricted Working Space, Add</i>	<i>646.05</i>	
27 15 13 00-0024 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed .....	2,305.92	1,292.10
<i>For Work In Restricted Working Space, Add</i>	<i>646.05</i>	
27 15 13 00-0025 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed .....	2,322.03	1,292.10
<i>For Work In Restricted Working Space, Add</i>	<i>646.05</i>	
27 15 13 00-0026 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed .....	2,412.75	1,292.10
<i>For Work In Restricted Working Space, Add</i>	<i>646.05</i>	
27 15 13 00-0027 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,748.36	1,292.10
<i>For Work In Restricted Working Space, Add</i>	<i>646.05</i>	
27 15 13 00-0028 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	3,588.90	1,476.69
<i>For Work In Restricted Working Space, Add</i>	<i>738.34</i>	
27 15 13 00-0029 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	5,211.74	1,845.86
<i>For Work In Restricted Working Space, Add</i>	<i>922.93</i>	
27 15 13 00-0030 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	7,808.68	2,215.03
<i>For Work In Restricted Working Space, Add</i>	<i>1,107.52</i>	
27 15 13 00-0031 MLF 150-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	10,176.20	2,491.91
<i>For Work In Restricted Working Space, Add</i>	<i>1,245.95</i>	
27 15 13 00-0032 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	13,096.43	2,768.79
<i>For Work In Restricted Working Space, Add</i>	<i>1,384.40</i>	
27 15 13 00-0033 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	19,019.58	3,876.30
<i>For Work In Restricted Working Space, Add</i>	<i>1,938.15</i>	
27 15 13 00-0034 MLF 400-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	24,716.90	4,799.23
<i>For Work In Restricted Working Space, Add</i>	<i>2,399.62</i>	
27 15 13 00-0035 MLF 600-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	38,402.50	6,645.09
<i>For Work In Restricted Working Space, Add</i>	<i>3,322.55</i>	
27 15 13 00-0036 MLF 900-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	64,329.43	13,290.17
<i>For Work In Restricted Working Space, Add</i>	<i>6,645.09</i>	
27 15 13 00-0037 MLF 1,200-Pair 24 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	88,919.68	19,935.27
<i>For Work In Restricted Working Space, Add</i>	<i>9,967.64</i>	
<b>27 15 13 00-0038 22 AWG, Category 3, Indoor Telecommunications Riser Cable</b> <small>(27 15 13 00-0004)</small>		
<b>27 15 13 00-0039 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit</b> <small>(27 15 13 00-0038)</small>		
27 15 13 00-0040 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	3,685.65	738.35
27 15 13 00-0041 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	5,435.31	922.93
27 15 13 00-0042 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	9,862.26	1,476.69
27 15 13 00-0043 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	17,278.59	1,845.86
27 15 13 00-0044 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	25,373.15	2,584.20
27 15 13 00-0045 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	32,997.30	3,193.33
27 15 13 00-0046 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed In Conduit .....	48,830.38	4,430.06
<b>27 15 13 00-0047 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed</b> <small>(27 15 13 00-0038)</small>		
27 15 13 00-0048 MLF 25-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	4,916.21	1,476.69
<i>For Work In Restricted Working Space, Add</i>	<i>738.34</i>	
27 15 13 00-0049 MLF 50-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	6,973.53	1,845.86
<i>For Work In Restricted Working Space, Add</i>	<i>922.93</i>	
27 15 13 00-0050 MLF 100-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	11,092.84	2,215.03
<i>For Work In Restricted Working Space, Add</i>	<i>1,107.52</i>	
27 15 13 00-0051 MLF 200-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	18,816.81	2,768.79
<i>For Work In Restricted Working Space, Add</i>	<i>1,384.40</i>	
27 15 13 00-0052 MLF 300-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	27,526.65	3,876.30
<i>For Work In Restricted Working Space, Add</i>	<i>1,938.15</i>	
27 15 13 00-0053 MLF 400-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	35,673.80	4,799.23
<i>For Work In Restricted Working Space, Add</i>	<i>2,399.62</i>	
27 15 13 00-0054 MLF 600-Pair 22 AWG, Category 3, Indoor Telecommunications Riser Cable, Installed Exposed.....	52,522.10	6,645.09
<i>For Work In Restricted Working Space, Add</i>	<i>3,322.55</i>	
<b>27 15 13 00-0055 Category 3, Indoor Telecommunications Plenum Cable</b> <small>(27 15 13 00-0003)</small>		
<b>27 15 13 00-0056 24 AWG, Category 3, Indoor Telecommunications Plenum Cable</b> <small>(27 15 13 00-0055)</small>		
<b>27 15 13 00-0057 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit</b> <small>(27 15 13 00-0056)</small>		
27 15 13 00-0058 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	1,220.45	646.05



<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0059 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	1,265.86	646.05
27 15 13 00-0060 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	1,299.82	646.05
27 15 13 00-0061 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	1,551.07	738.35
27 15 13 00-0062 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	1,916.91	738.35
27 15 13 00-0063 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	2,908.58	738.35
27 15 13 00-0064 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	4,793.77	922.93
27 15 13 00-0065 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	8,925.33	1,476.69
27 15 13 00-0066 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	15,236.46	1,845.86
27 15 13 00-0067 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	22,777.57	2,584.20
<b>27 15 13 00-0068 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed</b> <i>(27 15 13 00-0056)</i>		
27 15 13 00-0069 MLF 2-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,297.20	1,292.10
<i>For Work In Restricted Working Space, Add</i>	646.05	
27 15 13 00-0070 MLF 3-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,342.61	1,292.10
<i>For Work In Restricted Working Space, Add</i>	646.05	
27 15 13 00-0071 MLF 4-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,376.57	1,292.10
<i>For Work In Restricted Working Space, Add</i>	646.05	
27 15 13 00-0072 MLF 6-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,473.99	1,292.10
<i>For Work In Restricted Working Space, Add</i>	646.05	
27 15 13 00-0073 MLF 12-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	2,839.83	1,292.10
<i>For Work In Restricted Working Space, Add</i>	646.05	
27 15 13 00-0074 MLF 25-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	4,139.14	1,476.69
<i>For Work In Restricted Working Space, Add</i>	738.34	
27 15 13 00-0075 MLF 50-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	6,331.99	1,845.86
<i>For Work In Restricted Working Space, Add</i>	922.93	
27 15 13 00-0076 MLF 100-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	10,155.91	2,215.03
<i>For Work In Restricted Working Space, Add</i>	1,107.52	
27 15 13 00-0077 MLF 200-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	16,774.68	2,768.79
<i>For Work In Restricted Working Space, Add</i>	1,384.40	
27 15 13 00-0078 MLF 300-Pair 24 AWG, Category 3, Indoor Telecommunications Plenum Cable, Installed Exposed.....	24,931.07	3,876.30
<i>For Work In Restricted Working Space, Add</i>	1,938.15	
<b>27 15 13 00-0079 Category 5E, Indoor Telecommunications Cable</b> <i>(27 15 13 00-0002)</i>		
<b>27 15 13 00-0080 Category 5E, Indoor Telecommunications Riser Cable</b> <i>(27 15 13 00-0079)</i>		
<b>27 15 13 00-0081 Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit</b> <i>(27 15 13 00-0080)</i>		
27 15 13 00-0082 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,224.88	646.05
27 15 13 00-0083 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,259.58	646.05
27 15 13 00-0084 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,414.07	738.35
27 15 13 00-0085 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,448.76	738.35
<b>27 15 13 00-0086 Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed</b> <i>(27 15 13 00-0080)</i>		
27 15 13 00-0087 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,301.63	1,292.10
<i>For Work In Restricted Working Space, Add</i>	646.05	
27 15 13 00-0088 MLF 4-Pair Stranded UTP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed .....	2,336.33	1,292.10
<i>For Work In Restricted Working Space, Add</i>	646.05	
27 15 13 00-0089 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed .....	2,644.63	1,476.69
<i>For Work In Restricted Working Space, Add</i>	738.34	
27 15 13 00-0090 MLF 4-Pair Stranded STP, 24 AWG, Category 5E, Indoor Telecommunications Riser Cable, Installed Exposed.....	2,679.32	1,476.69
<i>For Work In Restricted Working Space, Add</i>	738.34	
<b>27 15 13 00-0091 Category 5E, Indoor Telecommunications Plenum Cable</b> <i>(27 15 13 00-0079)</i>		
<b>27 15 13 00-0092 Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit</b> <i>(27 15 13 00-0091)</i>		
27 15 13 00-0093 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,352.47	646.05
27 15 13 00-0094 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,777.41	738.35
<b>27 15 13 00-0095 Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed</b> <i>(27 15 13 00-0091)</i>		
27 15 13 00-0096 MLF 4-Pair Solid UTP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed .....	2,429.22	1,292.10
<i>For Work In Restricted Working Space, Add</i>	646.05	
27 15 13 00-0097 MLF 4-Pair Solid STP, 24 AWG, Category 5E, Indoor Telecommunications Plenum Cable, Installed Exposed .....	3,007.97	1,476.69
<i>For Work In Restricted Working Space, Add</i>	738.34	
<b>27 15 13 00-0098 Category 6, Indoor Telecommunications Cable</b> <i>(27 15 13 00-0002)</i>		
<b>27 15 13 00-0099 Category 6, Indoor Telecommunications Riser Cable</b> <i>(27 15 13 00-0098)</i>		
<b>27 15 13 00-0100 Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit</b> <i>(27 15 13 00-0099)</i>		
27 15 13 00-0101 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,523.74	646.05
27 15 13 00-0102 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed In Conduit .....	1,573.72	646.05

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 13 00-0103 Category 6, Indoor Telecommunications Riser Cable, Installed Exposed</b> <sup>(27 15 13 00-0099)</sup>		
27 15 13 00-0104 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,600.49 646.05	1,292.10
27 15 13 00-0105 MLF 4-Pair Stranded UTP, 23 AWG, Category 6, Indoor Telecommunications Riser Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,650.47 646.05	1,292.10
<b>27 15 13 00-0106 Category 6, Indoor Telecommunications Plenum Cable</b> <sup>(27 15 13 00-0098)</sup>		
<b>27 15 13 00-0107 Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit</b> <sup>(27 15 13 00-0106)</sup>		
27 15 13 00-0108 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed In Conduit .....	1,775.23	646.05
<b>27 15 13 00-0109 Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed</b> <sup>(27 15 13 00-0106)</sup>		
27 15 13 00-0110 MLF 4-Pair Solid UTP, 23 AWG, Category 6, Indoor Telecommunications Plenum Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,851.98 646.05	1,292.10
<b>27 15 13 00-0111 Category 6a, Indoor Telecommunications Cable</b> <sup>(27 15 13 00-0002)</sup>		
<b>27 15 13 00-0112 Category 6a, Indoor Telecommunications Riser Cable</b> <sup>(27 15 13 00-0111)</sup>		
<b>27 15 13 00-0113 Category 6a Indoor Telecommunications Riser Cable, Installed In Conduit</b> <sup>(27 15 13 00-0112)</sup>		
27 15 13 00-0114 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed In Conduit.....	1,603.60	646.05
<b>27 15 13 00-0115 Category 6a, Indoor Telecommunications Riser Cable, Installed Exposed</b> <sup>(27 15 13 00-0112)</sup>		
27 15 13 00-0116 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Riser Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,680.35 646.05	1,292.10
<b>27 15 13 00-0117 Category 6a, Indoor Telecommunications Plenum Cable</b> <sup>(27 15 13 00-0111)</sup>		
<b>27 15 13 00-0118 Category 6a, Indoor Telecommunications Plenum Cable, Installed In Conduit</b> <sup>(27 15 13 00-0117)</sup>		
27 15 13 00-0119 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	1,956.77	646.05
<b>27 15 13 00-0120 Category 6a, Indoor Telecommunications Plenum Cable, Installed Exposed</b> <sup>(27 15 13 00-0117)</sup>		
27 15 13 00-0121 MLF 4-Pair Solid UTP, 23 AWG, Category 6A, Indoor Telecommunications Plenum Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	3,033.52 646.05	1,292.10
<b>27 15 13 00-0122 Category 7, Indoor Telecommunications Cable</b> <sup>(27 15 13 00-0002)</sup>		
<b>27 15 13 00-0123 Category 7, Indoor Telecommunications Cable, Installed In Conduit</b> <sup>(27 15 13 00-0122)</sup>		
27 15 13 00-0124 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed In Conduit .....	3,261.61	738.35
27 15 13 00-0125 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed In Conduit.....	5,038.51	738.35
<b>27 15 13 00-0126 Category 7, Indoor Telecommunications Cable, Installed Exposed</b> <sup>(27 15 13 00-0122)</sup>		
27 15 13 00-0127 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Riser Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	4,492.17 738.34	1,476.69
27 15 13 00-0128 MLF 4-Pair Solid STP, 22 AWG, Category 7, Indoor Telecommunications Plenum Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	6,269.07 738.34	1,476.69
<b>27 15 13 00-0129 Outdoor Telecommunications Cable</b> <sup>(27 15 13 00-0001)</sup>		
Note: Cable buried in trench excludes excavation.		
<b>27 15 13 00-0130 PE-89 Outdoor Telecommunications Cable</b> <sup>(27 15 13 00-0129)</sup>		
Note: Includes foam-skin polyolefin insulated conductors.		
<b>27 15 13 00-0131 24 AWG, PE-89 Outdoor Telecommunications Cable</b> <sup>(27 15 13 00-0130)</sup>		
<b>27 15 13 00-0132 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit</b> <sup>(27 15 13 00-0131)</sup>		
27 15 13 00-0133 MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	2,099.56	738.35
27 15 13 00-0134 MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	2,467.11	1,292.10
27 15 13 00-0135 MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	3,412.70	830.64
27 15 13 00-0136 MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	5,074.91	922.93
27 15 13 00-0137 MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	7,189.44	1,292.10
27 15 13 00-0138 MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	8,999.82	1,476.69
27 15 13 00-0139 MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	15,176.36	1,661.27
27 15 13 00-0140 MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	22,296.31	2,399.62
27 15 13 00-0141 MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	29,530.49	3,137.96
27 15 13 00-0142 MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	40,100.19	4,245.48
27 15 13 00-0143 MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	63,893.94	8,490.95
27 15 13 00-0144 MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	87,631.36	12,551.83





<b>Communications</b>	<b>27</b>	
<b>Structured Cabling</b>	<b>27 10</b>	<b>27</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 15 13 00-0145	<b>24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench</b> <small>(27 15 13 00-0131)</small>		
27 15 13 00-0146	MLF 6-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	1,868.82	
27 15 13 00-0147	MLF 12-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	2,236.37	
27 15 13 00-0148	MLF 25-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	3,105.06	
27 15 13 00-0149	MLF 50-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	4,767.28	
27 15 13 00-0150	MLF 75-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	6,727.98	
27 15 13 00-0151	MLF 100-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	8,230.72	
27 15 13 00-0152	MLF 200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	14,868.71	
27 15 13 00-0153	MLF 300-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	21,373.38	
27 15 13 00-0154	MLF 400-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	27,607.72	
27 15 13 00-0155	MLF 600-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	36,716.12	
27 15 13 00-0156	MLF 900-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	54,664.64	
27 15 13 00-0157	MLF 1,200-Pair 24 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	74,095.06	
27 15 13 00-0158	<b>22 AWG, PE-89 Outdoor Telecommunications Cable</b> <small>(27 15 13 00-0130)</small>		
27 15 13 00-0159	<b>22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit</b> <small>(27 15 13 00-0159)</small>		
27 15 13 00-0160	MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	2,333.23	738.35
27 15 13 00-0161	MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	2,903.67	738.35
27 15 13 00-0162	MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	4,306.30	830.64
27 15 13 00-0163	MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	6,665.41	922.93
27 15 13 00-0164	MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	9,674.95	1,292.10
27 15 13 00-0165	MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	12,378.81	1,476.69
27 15 13 00-0166	MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	21,694.90	1,661.27
27 15 13 00-0167	MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	31,593.06	2,399.62
27 15 13 00-0168	MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	42,063.31	3,137.96
27 15 13 00-0169	MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	61,986.44	4,245.48
27 15 13 00-0170	MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	91,534.47	8,490.95
27 15 13 00-0171	MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	128,984.13	12,551.83
27 15 13 00-0172	<b>22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench</b> <small>(27 15 13 00-0158)</small>		
27 15 13 00-0173	MLF 6-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	2,102.49	
27 15 13 00-0174	MLF 12-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	2,672.93	
27 15 13 00-0175	MLF 25-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	3,998.66	
27 15 13 00-0176	MLF 50-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	6,357.78	
27 15 13 00-0177	MLF 75-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	9,213.49	
27 15 13 00-0178	MLF 100-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	11,917.35	
27 15 13 00-0179	MLF 200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	21,387.25	
27 15 13 00-0180	MLF 300-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	30,670.13	
27 15 13 00-0181	MLF 400-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	40,140.54	
27 15 13 00-0182	MLF 600-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	58,602.37	
27 15 13 00-0183	MLF 900-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	82,305.17	
27 15 13 00-0184	MLF 1,200-Pair 22 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	115,447.83	
27 15 13 00-0185	<b>19 AWG, PE-89 Outdoor Telecommunications Cable</b> <small>(27 15 13 00-0130)</small>		
27 15 13 00-0186	<b>19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit</b> <small>(27 15 13 00-0185)</small>		
27 15 13 00-0187	MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	7,061.07	830.64
27 15 13 00-0188	MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	12,050.10	922.93
27 15 13 00-0189	MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	19,253.33	1,292.10
27 15 13 00-0190	MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Installed In Conduit .....	23,044.33	1,476.69
27 15 13 00-0191	<b>19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench</b> <small>(27 15 13 00-0185)</small>		
27 15 13 00-0192	MLF 25-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	6,753.43	
27 15 13 00-0193	MLF 50-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	11,742.47	
27 15 13 00-0194	MLF 75-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	18,791.87	
27 15 13 00-0195	MLF 100-Pair 19 AWG, PE-89 Outdoor Telecommunications Cable, Buried In Trench .....	22,582.87	
27 15 13 00-0196	<b>PE-39 Outdoor Telecommunications Cable</b> <small>(27 15 13 00-0129)</small>		
Note: Includes solid polyolefin insulated conductors.			
27 15 13 00-0197	<b>24 AWG, PE-39 Outdoor Telecommunications Cable</b> <small>(27 15 13 00-0196)</small>		
27 15 13 00-0198	<b>24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit</b> <small>(27 15 13 00-0197)</small>		
27 15 13 00-0199	MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	3,055.34	1,292.10
27 15 13 00-0200	MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	3,505.00	1,292.10
27 15 13 00-0201	MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	4,412.18	1,292.10
27 15 13 00-0202	MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	6,045.82	1,292.10
27 15 13 00-0203	MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	9,359.10	1,292.10
27 15 13 00-0204	MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	16,701.59	1,661.27
27 15 13 00-0205	MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	24,376.79	2,399.62
27 15 13 00-0206	MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	32,065.53	3,137.96

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0207 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	43,801.54	4,245.48
27 15 13 00-0208 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	68,680.71	8,490.95
27 15 13 00-0209 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	100,046.31	12,551.83
<b>27 15 13 00-0210 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0197)</b>		
27 15 13 00-0211 MLF 6-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	2,593.88	
27 15 13 00-0212 MLF 12-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	3,043.54	
27 15 13 00-0213 MLF 25-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	3,950.72	
27 15 13 00-0214 MLF 50-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	5,584.36	
27 15 13 00-0215 MLF 100-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	8,897.64	
27 15 13 00-0216 MLF 200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	16,393.94	
27 15 13 00-0217 MLF 300-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	23,453.86	
27 15 13 00-0218 MLF 400-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	30,142.76	
27 15 13 00-0219 MLF 600-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	40,417.47	
27 15 13 00-0220 MLF 900-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	59,451.41	
27 15 13 00-0221 MLF 1,200-Pair 24 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	86,510.01	
<b>27 15 13 00-0222 22 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)</b>		
<b>27 15 13 00-0223 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0222)</b>		
27 15 13 00-0224 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	3,315.30	1,292.10
27 15 13 00-0225 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	3,976.06	1,292.10
27 15 13 00-0226 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	5,382.19	1,292.10
27 15 13 00-0227 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	7,968.97	1,292.10
27 15 13 00-0228 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	13,367.24	1,292.10
27 15 13 00-0229 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	24,415.18	1,661.27
27 15 13 00-0230 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	35,763.00	2,399.62
27 15 13 00-0231 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	45,836.93	3,137.96
27 15 13 00-0232 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	63,979.81	4,245.48
27 15 13 00-0233 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	101,354.01	8,490.95
<b>27 15 13 00-0234 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0222)</b>		
27 15 13 00-0235 MLF 6-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	2,853.84	
27 15 13 00-0236 MLF 12-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	3,514.60	
27 15 13 00-0237 MLF 25-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	4,920.73	
27 15 13 00-0238 MLF 50-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	7,507.51	
27 15 13 00-0239 MLF 100-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	12,905.78	
27 15 13 00-0240 MLF 200-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	24,107.53	
27 15 13 00-0241 MLF 300-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	34,840.07	
27 15 13 00-0242 MLF 400-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	43,914.16	
27 15 13 00-0243 MLF 600-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	60,595.74	
27 15 13 00-0244 MLF 900-Pair 22 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	92,124.71	
<b>27 15 13 00-0245 19 AWG, PE-39 Outdoor Telecommunications Cable (27 15 13 00-0196)</b>		
<b>27 15 13 00-0246 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit (27 15 13 00-0245)</b>		
27 15 13 00-0247 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	8,497.10	1,292.10
27 15 13 00-0248 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	13,743.43	1,292.10
27 15 13 00-0249 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Installed In Conduit .....	24,622.47	1,292.10
<b>27 15 13 00-0250 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench (27 15 13 00-0245)</b>		
27 15 13 00-0251 MLF 25-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	8,035.64	
27 15 13 00-0252 MLF 50-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	13,281.97	
27 15 13 00-0253 MLF 100-Pair 19 AWG, PE-39 Outdoor Telecommunications Cable, Buried In Trench .....	24,161.01	
<b>27 15 13 00-0254 (Aerial) Outdoor Telecommunications Cable (27 15 13 00-0129)</b>		
Note: Includes support wire.		
<b>27 15 13 00-0255 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0254)</b>		
27 15 13 00-0256 MLF 6-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	8,849.48	2,544.49
27 15 13 00-0257 MLF 12-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	9,223.62	2,544.49
27 15 13 00-0258 MLF 25-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	10,152.54	2,544.49
27 15 13 00-0259 MLF 50-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	11,872.41	2,544.49
27 15 13 00-0260 MLF 100-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	15,194.33	2,544.49
27 15 13 00-0261 MLF 200-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	22,400.65	2,798.94
27 15 13 00-0262 MLF 300-Pair 24 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	29,648.07	3,053.40
<b>27 15 13 00-0263 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles (27 15 13 00-0254)</b>		
27 15 13 00-0264 MLF 6-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	9,297.10	2,544.49
27 15 13 00-0265 MLF 12-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	9,849.87	2,544.49
27 15 13 00-0266 MLF 25-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	11,181.28	2,544.49



<b>Communications</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0267 MLF 50-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	13,811.59	2,544.49
27 15 13 00-0268 MLF 100-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	19,814.70	2,544.49
27 15 13 00-0269 MLF 200-Pair 22 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	30,536.36	2,798.94
<b>27 15 13 00-0270 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles <sup>(27 15 13 00-0254)</sup></b>		
27 15 13 00-0271 MLF 6-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	9,888.89	2,544.49
27 15 13 00-0272 MLF 12-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	11,138.96	2,544.49
27 15 13 00-0273 MLF 25-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	13,596.80	2,544.49
27 15 13 00-0274 MLF 50-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	18,512.52	2,544.49
27 15 13 00-0275 MLF 100-Pair 19 AWG, (Aerial) Outdoor Telecommunications Cable, Installed On Poles .....	28,604.24	2,544.49
<b>27 15 13 00-0276 Solid Conductor Low Voltage Cable <sup>(27 15 13)</sup></b>		
<b>27 15 13 00-0277 Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <sup>(27 15 13 00-0276)</sup></b>		
<b>27 15 13 00-0278 #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <sup>(27 15 13 00-0277)</sup></b>		
27 15 13 00-0279 MLF 1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,693.54	1,391.46
For #10 AWG, Add .....	587.36	
27 15 13 00-0280 MLF 2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,092.38	1,440.65
For #10 AWG, Add .....	708.25	
27 15 13 00-0281 MLF 3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,446.85	1,491.25
For #10 AWG, Add .....	814.45	
27 15 13 00-0282 MLF 4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,821.29	1,541.85
For #10 AWG, Add .....	926.86	
27 15 13 00-0283 MLF 5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	4,266.20	1,645.86
For #10 AWG, Add .....	1,051.14	
27 15 13 00-0284 MLF 6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	4,677.95	1,748.45
For #10 AWG, Add .....	1,164.79	
27 15 13 00-0285 MLF 8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,116.81	1,956.47
For #10 AWG, Add .....	1,264.73	
27 15 13 00-0286 MLF 12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	6,773.22	2,579.12
For #10 AWG, Add .....	1,676.46	
27 15 13 00-0287 MLF 24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	10,059.88	3,808.94
For #10 AWG, Add .....	2,494.70	
<b>27 15 13 00-0288 #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <sup>(27 15 13 00-0277)</sup></b>		
27 15 13 00-0289 MLF 1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,385.72	1,217.18
27 15 13 00-0290 MLF 2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,761.08	1,260.75
27 15 13 00-0291 MLF 3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,093.62	1,304.31
27 15 13 00-0292 MLF 4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,443.89	1,349.29
27 15 13 00-0293 MLF 5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,855.12	1,440.65
27 15 13 00-0294 MLF 6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	4,234.18	1,530.61
27 15 13 00-0295 MLF 8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	4,627.15	1,711.91
27 15 13 00-0296 MLF 12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	6,125.02	2,255.85
27 15 13 00-0297 MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	9,102.50	3,332.47
<b>27 15 13 00-0298 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit <sup>(27 15 13 00-0277)</sup></b>		
27 15 13 00-0299 MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,126.57	1,086.46
27 15 13 00-0300 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,381.62	1,125.82
27 15 13 00-0301 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,750.54	1,165.17
27 15 13 00-0302 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,060.85	1,204.52

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0303 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,424.25	1,286.05
27 15 13 00-0304 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,760.37	1,366.16
27 15 13 00-0305 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,934.65	1,447.68
27 15 13 00-0306 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,110.34	1,529.19
27 15 13 00-0307 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,532.33	1,626.18
27 15 13 00-0308 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,439.92	2,014.10
27 15 13 00-0309 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	8,083.65	2,975.47
<b>27 15 13 00-0310 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0277)</small>		
27 15 13 00-0311 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,816.18	957.16
27 15 13 00-0312 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,061.76	990.89
27 15 13 00-0313 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,280.70	1,024.62
27 15 13 00-0314 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,509.81	1,059.75
27 15 13 00-0315 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,790.59	1,131.44
27 15 13 00-0316 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,051.72	1,201.72
27 15 13 00-0317 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,344.81	1,345.08
27 15 13 00-0318 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	4,425.07	1,772.35
27 15 13 00-0319 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	6,570.15	2,618.47
<b>27 15 13 00-0320 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0277)</small>		
27 15 13 00-0321 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,619.94	870.01
27 15 13 00-0322 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,817.32	900.94
27 15 13 00-0323 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,992.36	932.56
27 15 13 00-0324 MLF 4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,175.97	964.18
27 15 13 00-0325 MLF 5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,409.03	1,028.83
27 15 13 00-0326 MLF 6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,626.48	1,093.49
27 15 13 00-0327 MLF 8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,897.97	1,222.80
27 15 13 00-0328 MLF 12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	3,816.14	1,612.12
27 15 13 00-0329 MLF 24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,663.05	2,380.94
27 15 13 00-0330 MLF 25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	5,948.55	2,437.16
27 15 13 00-0331 MLF 36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,041.34	2,837.73
27 15 13 00-0332 MLF 40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	7,549.80	3,037.32
27 15 13 00-0333 MLF 50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	9,142.83	3,796.29
27 15 13 00-0334 MLF 100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	12,314.84	4,998.01
<b>27 15 13 00-0335 #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0277)</small>		
27 15 13 00-0336 MLF 1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,393.69	782.87
27 15 13 00-0337 MLF 2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,473.01	810.99
27 15 13 00-0338 MLF 3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,566.27	839.09
27 15 13 00-0339 MLF 4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,665.81	867.20
27 15 13 00-0340 MLF 5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	1,824.87	926.24



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	27 15 13 00-0341	MLF		6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,983.43	981.05
<b>27 15 13 00-0342</b>				<b>Triad</b> <small>(27 15 13 00-0277)</small>		
	27 15 13 00-0343	MLF		1 Triad #16 AWG, Stranded, Low Voltage, Installed In Conduit .....	3,488.04	1,165.17
	27 15 13 00-0344	MLF		4 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit .....	4,546.29	1,612.12
	27 15 13 00-0345	MLF		8 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit .....	7,100.97	2,380.94
	27 15 13 00-0346	MLF		12 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit .....	8,841.92	2,837.73
	27 15 13 00-0347	MLF		24 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit .....	14,474.58	4,396.45
	27 15 13 00-0348	MLF		36 Triad #20 AWG, Stranded, Low Voltage, Installed In Conduit .....	16,651.63	4,998.01
<b>27 15 13 00-0349</b>				<b>Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0276)</small>		
<b>27 15 13 00-0350</b>				<b>#12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0349)</small>		
	27 15 13 00-0351	MLF		1 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,012.83	2,782.92
				<i>For #10 AWG, Add</i> .....	1,051.22	
				<i>For Work In Restricted Working Space, Add</i> .....	1,391.58	
	27 15 13 00-0352	MLF		2 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,494.19	2,881.30
				<i>For #10 AWG, Add</i> .....	1,188.61	
				<i>For Work In Restricted Working Space, Add</i> .....	1,441.08	
	27 15 13 00-0353	MLF		3 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,931.56	2,982.50
				<i>For #10 AWG, Add</i> .....	1,311.39	
				<i>For Work In Restricted Working Space, Add</i> .....	1,490.83	
	27 15 13 00-0354	MLF		4 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	6,391.83	3,083.70
				<i>For #10 AWG, Add</i> .....	1,440.97	
				<i>For Work In Restricted Working Space, Add</i> .....	1,542.32	
	27 15 13 00-0355	MLF		5 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	7,010.10	3,291.72
				<i>For #10 AWG, Add</i> .....	1,599.92	
				<i>For Work In Restricted Working Space, Add</i> .....	1,646.34	
	27 15 13 00-0356	MLF		6 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	7,592.82	3,496.92
				<i>For #10 AWG, Add</i> .....	1,747.77	
				<i>For Work In Restricted Working Space, Add</i> .....	1,748.92	
	27 15 13 00-0357	MLF		8 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	8,376.99	3,912.95
				<i>For #10 AWG, Add</i> .....	1,916.76	
				<i>For Work In Restricted Working Space, Add</i> .....	1,956.11	
	27 15 13 00-0358	MLF		12 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	11,070.90	5,158.24
				<i>For #10 AWG, Add</i> .....	2,536.00	
				<i>For Work In Restricted Working Space, Add</i> .....	2,578.61	
	27 15 13 00-0359	MLF		24 Pair #12 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	16,406.48	7,617.89
				<i>For #10 AWG, Add</i> .....	3,764.02	
				<i>For Work In Restricted Working Space, Add</i> .....	3,807.96	
<b>27 15 13 00-0360</b>				<b>#14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0349)</small>		
	27 15 13 00-0361	MLF		1 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	4,413.88	2,434.35
				<i>For Work In Restricted Working Space, Add</i> .....	1,216.89	
	27 15 13 00-0362	MLF		2 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	4,862.32	2,521.49
				<i>For Work In Restricted Working Space, Add</i> .....	1,260.74	
	27 15 13 00-0363	MLF		3 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,267.94	2,608.64
				<i>For Work In Restricted Working Space, Add</i> .....	1,304.60	
	27 15 13 00-0364	MLF		4 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,692.71	2,698.59
				<i>For Work In Restricted Working Space, Add</i> .....	1,349.29	
	27 15 13 00-0365	MLF		5 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	6,255.74	2,881.30
				<i>For Work In Restricted Working Space, Add</i> .....	1,440.37	
	27 15 13 00-0366	MLF		6 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	6,783.78	3,061.20
				<i>For Work In Restricted Working Space, Add</i> .....	1,529.76	
	27 15 13 00-0367	MLF		8 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	7,480.35	3,423.83
				<i>For Work In Restricted Working Space, Add</i> .....	1,711.92	
	27 15 13 00-0368	MLF		12 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	9,884.75	4,511.70
				<i>For Work In Restricted Working Space, Add</i> .....	2,255.84	

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0369 MLF 24 Pair #14 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	14,657.09	6,664.95
<i>For Work In Restricted Working Space, Add</i>	3,332.75	
<b>27 15 13 00-0370 #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0349)</small>		
27 15 13 00-0371 MLF 1 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,938.28	2,172.92
<i>For Work In Restricted Working Space, Add</i>	1,087.02	
27 15 13 00-0372 MLF 2 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,257.98	2,251.63
<i>For Work In Restricted Working Space, Add</i>	1,125.82	
27 15 13 00-0373 MLF 3 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,691.56	2,330.34
<i>For Work In Restricted Working Space, Add</i>	1,164.61	
27 15 13 00-0374 MLF 4 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,069.34	2,409.05
<i>For Work In Restricted Working Space, Add</i>	1,205.09	
27 15 13 00-0375 MLF 5 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,567.65	2,572.09
<i>For Work In Restricted Working Space, Add</i>	1,286.04	
27 15 13 00-0376 MLF 6 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,037.31	2,732.32
<i>For Work In Restricted Working Space, Add</i>	1,366.16	
27 15 13 00-0377 MLF 7 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,346.52	2,895.36
<i>For Work In Restricted Working Space, Add</i>	1,447.12	
27 15 13 00-0378 MLF 8 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	6,658.54	3,058.40
<i>For Work In Restricted Working Space, Add</i>	1,528.92	
27 15 13 00-0379 MLF 9 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,242.16	3,252.36
<i>For Work In Restricted Working Space, Add</i>	1,625.90	
27 15 13 00-0380 MLF 12 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	8,796.99	4,028.20
<i>For Work In Restricted Working Space, Add</i>	2,014.24	
27 15 13 00-0381 MLF 24 Pair #16 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	13,043.00	5,950.95
<i>For Work In Restricted Working Space, Add</i>	2,975.61	
<b>27 15 13 00-0382 #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0349)</small>		
27 15 13 00-0383 MLF 1 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,410.04	1,914.31
<i>For Work In Restricted Working Space, Add</i>	956.31	
27 15 13 00-0384 MLF 2 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,713.24	1,981.77
<i>For Work In Restricted Working Space, Add</i>	990.89	
27 15 13 00-0385 MLF 3 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,989.81	2,049.24
<i>For Work In Restricted Working Space, Add</i>	1,025.46	
27 15 13 00-0386 MLF 4 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,276.54	2,119.52
<i>For Work In Restricted Working Space, Add</i>	1,060.04	
27 15 13 00-0387 MLF 5 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,676.79	2,262.87
<i>For Work In Restricted Working Space, Add</i>	1,131.72	
27 15 13 00-0388 MLF 6 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,055.97	2,403.43
<i>For Work In Restricted Working Space, Add</i>	1,202.56	
27 15 13 00-0389 MLF 8 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	5,586.60	2,690.15
<i>For Work In Restricted Working Space, Add</i>	1,345.07	
27 15 13 00-0390 MLF 12 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	7,379.47	3,544.70
<i>For Work In Restricted Working Space, Add</i>	1,772.63	
27 15 13 00-0391 MLF 24 Pair #18 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	10,934.25	5,236.94
<i>For Work In Restricted Working Space, Add</i>	2,618.46	
<b>27 15 13 00-0392 #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0349)</small>		
27 15 13 00-0393 MLF 1 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,069.03	1,740.03
<i>For Work In Restricted Working Space, Add</i>	869.45	
27 15 13 00-0394 MLF 2 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,318.41	1,801.87
<i>For Work In Restricted Working Space, Add</i>	900.65	
27 15 13 00-0395 MLF 3 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	3,545.45	1,865.12
<i>For Work In Restricted Working Space, Add</i>	931.85	



<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0396	MLF		4 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,782.47	1,928.36
			<i>For Work In Restricted Working Space, Add</i>	963.90	
27 15 13 00-0397	MLF		5 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,123.06	2,057.67
			<i>For Work In Restricted Working Space, Add</i>	1,028.42	
27 15 13 00-0398	MLF		6 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,448.03	2,186.98
			<i>For Work In Restricted Working Space, Add</i>	1,092.93	
27 15 13 00-0399	MLF		8 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	4,935.97	2,445.59
			<i>For Work In Restricted Working Space, Add</i>	1,222.80	
27 15 13 00-0400	MLF		12 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	6,502.07	3,224.25
			<i>For Work In Restricted Working Space, Add</i>	1,611.56	
27 15 13 00-0401	MLF		24 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	9,630.80	4,761.88
			<i>For Work In Restricted Working Space, Add</i>	2,380.65	
27 15 13 00-0402	MLF		25 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	10,010.46	4,874.32
			<i>For Work In Restricted Working Space, Add</i>	2,437.15	
27 15 13 00-0403	MLF		36 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	11,770.91	5,675.46
			<i>For Work In Restricted Working Space, Add</i>	2,837.74	
27 15 13 00-0404	MLF		40 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	12,612.44	6,074.63
			<i>For Work In Restricted Working Space, Add</i>	3,037.59	
27 15 13 00-0405	MLF		50 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	15,469.01	7,592.58
			<i>For Work In Restricted Working Space, Add</i>	3,795.71	
27 15 13 00-0406	MLF		100 Pair #20 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	20,643.85	9,996.01
			<i>For Work In Restricted Working Space, Add</i>	4,997.41	
<b>27 15 13 00-0407</b>			<b>#22 AWG, Shielded, Low Voltage Cable, Installed Exposed</b> <small>(27 15 13 00-0349)</small>		
27 15 13 00-0408	MLF		1 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,698.02	1,565.74
			<i>For Work In Restricted Working Space, Add</i>	782.59	
27 15 13 00-0409	MLF		2 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,823.70	1,621.96
			<i>For Work In Restricted Working Space, Add</i>	810.42	
27 15 13 00-0410	MLF		3 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	2,964.76	1,678.18
			<i>For Work In Restricted Working Space, Add</i>	839.09	
27 15 13 00-0411	MLF		4 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,112.08	1,734.41
			<i>For Work In Restricted Working Space, Add</i>	867.77	
27 15 13 00-0412	MLF		5 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,368.13	1,852.46
			<i>For Work In Restricted Working Space, Add</i>	925.95	
27 15 13 00-0413	MLF		6 Pair #22 AWG, Solid, Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed	3,619.45	1,962.09
			<i>For Work In Restricted Working Space, Add</i>	981.61	
<b>27 15 13 00-0414</b>			<b>Triad, Installed Exposed</b> <small>(27 15 13 00-0349)</small>		
27 15 13 00-0415	MLF		1 Triad, #16 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	3,488.04	1,165.17
27 15 13 00-0416	MLF		4 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	4,546.29	1,612.12
27 15 13 00-0417	MLF		8 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	7,100.97	2,380.94
27 15 13 00-0418	MLF		12 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	8,841.92	2,837.73
27 15 13 00-0419	MLF		24 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	14,474.58	4,396.45
27 15 13 00-0420	MLF		36 Triad, #20 AWG, Stranded, Low Voltage Copper Communication Cable, Installed Exposed	16,651.63	4,998.01
<b>27 15 13 00-0421</b>			<b>Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0276)</small>		
<b>27 15 13 00-0422</b>			<b>#14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0421)</small>		
27 15 13 00-0423	MLF		1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,242.28	1,217.18
			<i>For Work In Restricted Working Space, Add</i>	608.45	
27 15 13 00-0424	MLF		2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,496.38	1,260.75
			<i>For Work In Restricted Working Space, Add</i>	630.37	
27 15 13 00-0425	MLF		3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,724.85	1,304.31
			<i>For Work In Restricted Working Space, Add</i>	652.30	
27 15 13 00-0426	MLF		4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit	2,964.48	1,349.29
			<i>For Work In Restricted Working Space, Add</i>	674.65	

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0427 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,268.83	1,439.24
<i>For Work In Restricted Working Space, Add</i>	719.34	
27 15 13 00-0428 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,557.00	1,529.19
<i>For Work In Restricted Working Space, Add</i>	764.46	
27 15 13 00-0429 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,915.51	1,711.91
<i>For Work In Restricted Working Space, Add</i>	855.96	
27 15 13 00-0430 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,176.17	2,255.85
<i>For Work In Restricted Working Space, Add</i>	1,127.92	
27 15 13 00-0431 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,679.24	3,332.47
<i>For Work In Restricted Working Space, Add</i>	1,666.38	
<b>27 15 13 00-0432 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit<sup>(27 15 13 00-0421)</sup></b>		
27 15 13 00-0433 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,000.26	1,086.46
<i>For Work In Restricted Working Space, Add</i>	543.51	
27 15 13 00-0434 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,224.32	1,125.82
<i>For Work In Restricted Working Space, Add</i>	562.91	
27 15 13 00-0435 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,425.79	1,165.17
<i>For Work In Restricted Working Space, Add</i>	582.30	
27 15 13 00-0436 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,638.68	1,204.52
<i>For Work In Restricted Working Space, Add</i>	602.54	
27 15 13 00-0437 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,909.03	1,284.63
<i>For Work In Restricted Working Space, Add</i>	642.60	
27 15 13 00-0438 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,165.28	1,366.16
<i>For Work In Restricted Working Space, Add</i>	683.08	
27 15 13 00-0439 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,323.78	1,447.68
<i>For Work In Restricted Working Space, Add</i>	723.56	
27 15 13 00-0440 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,544.14	1,529.19
<i>For Work In Restricted Working Space, Add</i>	764.46	
27 15 13 00-0441 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,871.63	1,626.18
<i>For Work In Restricted Working Space, Add</i>	812.91	
27 15 13 00-0442 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,604.38	2,014.10
<i>For Work In Restricted Working Space, Add</i>	1,007.12	
27 15 13 00-0443 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,831.01	2,975.47
<i>For Work In Restricted Working Space, Add</i>	1,488.02	
<b>27 15 13 00-0444 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit<sup>(27 15 13 00-0421)</sup></b>		
27 15 13 00-0445 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,751.22	955.75
<i>For Work In Restricted Working Space, Add</i>	478.16	
27 15 13 00-0446 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,933.67	990.89
<i>For Work In Restricted Working Space, Add</i>	495.44	
27 15 13 00-0447 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,056.40	1,026.03
<i>For Work In Restricted Working Space, Add</i>	512.73	
27 15 13 00-0448 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,211.72	1,059.75
<i>For Work In Restricted Working Space, Add</i>	530.02	
27 15 13 00-0449 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,418.01	1,131.44
<i>For Work In Restricted Working Space, Add</i>	565.86	
27 15 13 00-0450 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,622.91	1,203.12
<i>For Work In Restricted Working Space, Add</i>	601.28	
27 15 13 00-0451 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,088.35	1,345.08
<i>For Work In Restricted Working Space, Add</i>	672.54	
27 15 13 00-0452 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,028.22	1,772.35
<i>For Work In Restricted Working Space, Add</i>	886.31	
27 15 13 00-0453 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,536.97	2,618.47
<i>For Work In Restricted Working Space, Add</i>	1,309.23	





<b>Communications</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 13 00-0454 #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0421)</small>		
27 15 13 00-0455 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,560.17	870.01
<i>For Work In Restricted Working Space, Add</i>	434.72	
27 15 13 00-0456 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,690.46	900.94
<i>For Work In Restricted Working Space, Add</i>	450.33	
27 15 13 00-0457 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,972.15	1,026.03
<i>For Work In Restricted Working Space, Add</i>	512.73	
27 15 13 00-0458 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,138.67	1,078.59
<i>For Work In Restricted Working Space, Add</i>	539.30	
27 15 13 00-0459 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,302.40	1,131.44
<i>For Work In Restricted Working Space, Add</i>	565.86	
27 15 13 00-0460 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,486.30	1,203.12
<i>For Work In Restricted Working Space, Add</i>	601.28	
27 15 13 00-0461 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,746.94	1,338.89
<i>For Work In Restricted Working Space, Add</i>	669.59	
27 15 13 00-0462 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,362.75	1,612.12
<i>For Work In Restricted Working Space, Add</i>	805.78	
27 15 13 00-0463 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,982.97	2,380.94
<i>For Work In Restricted Working Space, Add</i>	1,190.33	
27 15 13 00-0464 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,191.72	2,437.16
<i>For Work In Restricted Working Space, Add</i>	1,218.58	
27 15 13 00-0465 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,113.96	2,837.73
<i>For Work In Restricted Working Space, Add</i>	1,418.87	
27 15 13 00-0466 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,552.06	3,037.32
<i>For Work In Restricted Working Space, Add</i>	1,518.80	
27 15 13 00-0467 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,012.92	3,796.29
<i>For Work In Restricted Working Space, Add</i>	1,897.86	
27 15 13 00-0468 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	10,715.90	4,998.01
<i>For Work In Restricted Working Space, Add</i>	2,498.71	
<b>27 15 13 00-0469 #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0421)</small>		
27 15 13 00-0470 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,377.96	782.87
<i>For Work In Restricted Working Space, Add</i>	391.29	
27 15 13 00-0471 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,451.48	810.99
<i>For Work In Restricted Working Space, Add</i>	405.21	
27 15 13 00-0472 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,541.78	839.09
<i>For Work In Restricted Working Space, Add</i>	419.54	
27 15 13 00-0473 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,638.39	867.20
<i>For Work In Restricted Working Space, Add</i>	433.88	
27 15 13 00-0474 MLF 5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,781.03	926.24
<i>For Work In Restricted Working Space, Add</i>	462.98	
27 15 13 00-0475 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,929.34	981.05
<i>For Work In Restricted Working Space, Add</i>	490.81	
<b>27 15 13 00-0476 Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0276)</small>		
<b>27 15 13 00-0477 #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0476)</small>		
27 15 13 00-0478 MLF 1 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,270.44	2,434.35
<i>For Work In Restricted Working Space, Add</i>	1,216.89	
27 15 13 00-0479 MLF 2 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,597.62	2,521.49
<i>For Work In Restricted Working Space, Add</i>	1,260.74	
27 15 13 00-0480 MLF 3 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed.....	4,899.17	2,608.64
<i>For Work In Restricted Working Space, Add</i>	1,304.60	

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0481 MLF 4 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,213.30	2,698.59
<i>For Work In Restricted Working Space, Add</i> .....	1,349.29	
27 15 13 00-0482 MLF 5 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,666.64	2,878.49
<i>For Work In Restricted Working Space, Add</i> .....	1,438.68	
27 15 13 00-0483 MLF 6 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	6,105.19	3,058.40
<i>For Work In Restricted Working Space, Add</i> .....	1,528.92	
27 15 13 00-0484 MLF 8 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	6,768.71	3,423.83
<i>For Work In Restricted Working Space, Add</i> .....	1,711.92	
27 15 13 00-0485 MLF 12 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	8,935.90	4,511.70
<i>For Work In Restricted Working Space, Add</i> .....	2,255.84	
27 15 13 00-0486 MLF 24 Pair #14 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	13,233.83	6,664.95
<i>For Work In Restricted Working Space, Add</i> .....	3,332.75	
<b>27 15 13 00-0487 #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0476)</small>		
27 15 13 00-0488 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	3,811.97	2,172.92
<i>For Work In Restricted Working Space, Add</i> .....	1,087.02	
27 15 13 00-0489 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	4,100.68	2,251.63
<i>For Work In Restricted Working Space, Add</i> .....	1,125.82	
27 15 13 00-0490 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	4,366.81	2,330.34
<i>For Work In Restricted Working Space, Add</i> .....	1,164.61	
27 15 13 00-0491 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	4,647.17	2,409.05
<i>For Work In Restricted Working Space, Add</i> .....	1,205.09	
27 15 13 00-0492 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,051.03	2,569.28
<i>For Work In Restricted Working Space, Add</i> .....	1,285.20	
27 15 13 00-0493 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,442.22	2,732.32
<i>For Work In Restricted Working Space, Add</i> .....	1,366.16	
27 15 13 00-0494 MLF 7 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,735.65	2,895.36
<i>For Work In Restricted Working Space, Add</i> .....	1,447.12	
27 15 13 00-0495 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	6,092.34	3,058.40
<i>For Work In Restricted Working Space, Add</i> .....	1,528.92	
27 15 13 00-0496 MLF 9 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	6,581.32	3,252.36
<i>For Work In Restricted Working Space, Add</i> .....	1,625.81	
27 15 13 00-0497 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	7,961.44	4,028.20
<i>For Work In Restricted Working Space, Add</i> .....	2,014.24	
27 15 13 00-0498 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	11,791.05	5,950.95
<i>For Work In Restricted Working Space, Add</i> .....	2,976.03	
<b>27 15 13 00-0499 #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0476)</small>		
27 15 13 00-0500 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	3,345.08	1,911.50
<i>For Work In Restricted Working Space, Add</i> .....	956.31	
27 15 13 00-0501 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	3,585.15	1,981.77
<i>For Work In Restricted Working Space, Add</i> .....	990.89	
27 15 13 00-0502 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	3,765.51	2,052.05
<i>For Work In Restricted Working Space, Add</i> .....	1,025.46	
27 15 13 00-0503 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	3,978.45	2,119.52
<i>For Work In Restricted Working Space, Add</i> .....	1,060.04	
27 15 13 00-0504 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	4,304.21	2,262.87
<i>For Work In Restricted Working Space, Add</i> .....	1,131.72	
27 15 13 00-0505 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	4,627.16	2,406.24
<i>For Work In Restricted Working Space, Add</i> .....	1,202.56	
27 15 13 00-0506 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	5,330.14	2,690.15
<i>For Work In Restricted Working Space, Add</i> .....	1,345.07	
27 15 13 00-0507 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed .....	6,982.62	3,544.70
<i>For Work In Restricted Working Space, Add</i> .....	1,772.63	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	27 15 13 00-0508	MLF		24 Pair #18 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,901.07 2,618.46	5,236.94
<b>27 15 13 00-0509</b>				<b>#20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0476)</small>		
	27 15 13 00-0510	MLF		1 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,009.26 869.45	1,740.03
	27 15 13 00-0511	MLF		2 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,191.55 900.65	1,801.87
	27 15 13 00-0512	MLF		3 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,681.26 1,025.46	2,052.05
	27 15 13 00-0513	MLF		4 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,936.32 1,078.59	2,157.18
	27 15 13 00-0514	MLF		5 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,188.60 1,131.72	2,262.87
	27 15 13 00-0515	MLF		6 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,490.55 1,202.56	2,406.24
	27 15 13 00-0516	MLF		8 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	4,978.90 1,339.17	2,677.79
	27 15 13 00-0517	MLF		12 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	6,048.68 1,611.56	3,224.25
	27 15 13 00-0518	MLF		24 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	8,950.72 2,380.65	4,761.88
	27 15 13 00-0519	MLF		25 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	9,253.63 2,437.15	4,874.32
	27 15 13 00-0520	MLF		36 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	10,843.53 2,837.74	5,675.46
	27 15 13 00-0521	MLF		40 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	11,614.70 3,037.59	6,074.63
	27 15 13 00-0522	MLF		50 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	14,339.10 3,795.71	7,592.58
	27 15 13 00-0523	MLF		100 Pair #20 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	19,044.91 4,997.41	9,996.01
<b>27 15 13 00-0524</b>				<b>#22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed</b> <small>(27 15 13 00-0476)</small>		
	27 15 13 00-0525	MLF		1 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,682.29 782.59	1,565.74
	27 15 13 00-0526	MLF		2 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,802.17 810.42	1,621.96
	27 15 13 00-0527	MLF		3 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	2,940.27 839.09	1,678.18
	27 15 13 00-0528	MLF		4 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,084.66 867.77	1,734.41
	27 15 13 00-0529	MLF		5 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,324.29 925.95	1,852.46
	27 15 13 00-0530	MLF		6 Pair #22 AWG, Solid, Non-Shielded, Non-Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed Exposed <i>For Work In Restricted Working Space, Add</i>	3,565.36 981.61	1,962.09
<b>27 15 13 00-0531</b>				<b>Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench</b> <small>(27 15 13 00-0276)</small> Note: Excludes excavation.		
	27 15 13 00-0532	MLF		1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,170.87	
	27 15 13 00-0533	MLF		2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,536.77	
	27 15 13 00-0534	MLF		3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	2,861.52	
	27 15 13 00-0535	MLF		4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,204.59	
	27 15 13 00-0536	MLF		5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,599.33	
	27 15 13 00-0537	MLF		6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Buried In Trench	3,963.34	

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 13 00-0538 Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) (27 15 13 00-0276)</b>		
27 15 13 00-0539 MLF 1 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) .....	2,303.72	742.20
27 15 13 00-0540 MLF 2 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) .....	2,745.00	795.16
27 15 13 00-0541 MLF 3 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) .....	3,555.16	1,005.23
27 15 13 00-0542 MLF 4 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) .....	4,243.87	1,162.67
27 15 13 00-0543 MLF 5 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) .....	10,921.99	1,325.21
27 15 13 00-0544 MLF 6 Pair, #14 AWG, Solid, Shielded, Low Voltage, Alarm And Communications Cable, Installed On Poles (Aerial) .....	13,064.49	1,693.04
<b>27 15 13 00-0545 Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit (27 15 13 00-0276)</b>		
27 15 13 00-0546 MLF 1 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,074.52	1,086.46
27 15 13 00-0547 MLF 2 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,496.60	1,125.82
27 15 13 00-0548 MLF 3 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,794.45	1,165.17
27 15 13 00-0549 MLF 4 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,954.95	1,204.52
27 15 13 00-0550 MLF 5 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,538.94	1,284.63
27 15 13 00-0551 MLF 6 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,827.52	1,366.16
27 15 13 00-0552 MLF 8 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	4,781.04	1,529.19
27 15 13 00-0553 MLF 12 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,945.24	2,014.10
27 15 13 00-0554 MLF 24 Pair #16 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	9,022.59	2,975.47
27 15 13 00-0555 MLF 1 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,793.21	955.75
27 15 13 00-0556 MLF 2 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,139.87	990.89
27 15 13 00-0557 MLF 3 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,426.98	1,026.03
27 15 13 00-0558 MLF 4 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,570.19	1,059.75
27 15 13 00-0559 MLF 5 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,069.19	1,131.44
27 15 13 00-0560 MLF 6 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,443.11	1,203.12
27 15 13 00-0561 MLF 8 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,888.41	1,345.08
27 15 13 00-0562 MLF 12 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,026.06	1,772.35
27 15 13 00-0563 MLF 24 Pair #18 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	8,018.69	2,618.47
27 15 13 00-0564 MLF 1 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,585.53	870.01
27 15 13 00-0565 MLF 2 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,806.25	900.94
27 15 13 00-0566 MLF 3 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,020.19	931.86
27 15 13 00-0567 MLF 4 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,156.03	964.18
27 15 13 00-0568 MLF 5 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,346.69	1,028.83
27 15 13 00-0569 MLF 6 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,560.70	1,093.49
27 15 13 00-0570 MLF 8 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,867.86	1,222.80
27 15 13 00-0571 MLF 12 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,951.22	1,612.12
27 15 13 00-0572 MLF 24 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	6,000.23	2,380.94
27 15 13 00-0573 MLF 25 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	6,323.63	2,437.16
27 15 13 00-0574 MLF 36 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	7,460.39	2,837.73
27 15 13 00-0575 MLF 40 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	8,044.50	3,037.32
27 15 13 00-0576 MLF 50 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	9,703.06	3,796.29
27 15 13 00-0577 MLF 100 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	13,107.62	4,998.01
27 15 13 00-0578 MLF 250 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	25,303.33	9,206.11
27 15 13 00-0579 MLF 500 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	38,109.96	12,182.99
27 15 13 00-0580 MLF 750 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	50,972.02	15,352.42



<b>Communications</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0581 MLF 1200 Pair #20 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	71,750.76	21,058.81
27 15 13 00-0582 MLF 1 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,536.37	870.01
27 15 13 00-0583 MLF 2 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,696.29	900.94
27 15 13 00-0584 MLF 3 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,851.89	931.86
27 15 13 00-0585 MLF 4 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,958.02	964.18
27 15 13 00-0586 MLF 5 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,118.98	1,028.83
27 15 13 00-0587 MLF 6 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,294.36	1,093.49
27 15 13 00-0588 MLF 8 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,568.84	1,222.80
27 15 13 00-0589 MLF 12 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,495.31	1,612.12
27 15 13 00-0590 MLF 24 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,267.89	2,380.94
27 15 13 00-0591 MLF 25 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	5,508.69	2,437.16
27 15 13 00-0592 MLF 36 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,502.49	2,837.73
27 15 13 00-0593 MLF 40 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,970.07	3,037.32
27 15 13 00-0594 MLF 50 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	8,486.29	3,796.29
27 15 13 00-0595 MLF 100 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	11,385.78	4,998.01
27 15 13 00-0596 MLF 250 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	21,659.48	9,206.11
27 15 13 00-0597 MLF 500 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	31,676.68	12,182.99
27 15 13 00-0598 MLF 750 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	41,802.09	15,352.42
27 15 13 00-0599 MLF 1200 Pair #22 AWG, Solid, Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	58,512.28	21,058.81
<b>27 15 13 00-0600 Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit</b> <small>(27 15 13 00-0276)</small>		
27 15 13 00-0601 MLF 1 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,047.34	1,086.46
27 15 13 00-0602 MLF 2 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,298.89	1,125.82
27 15 13 00-0603 MLF 3 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,461.04	1,165.17
27 15 13 00-0604 MLF 4 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,673.36	1,204.52
27 15 13 00-0605 MLF 5 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,939.71	1,284.63
27 15 13 00-0606 MLF 6 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,203.24	1,366.16
27 15 13 00-0607 MLF 8 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,815.77	1,529.19
27 15 13 00-0608 MLF 12 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,966.62	2,014.10
27 15 13 00-0609 MLF 24 Pair #16 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	7,397.70	2,975.47
27 15 13 00-0610 MLF 1 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,794.15	955.75
27 15 13 00-0611 MLF 2 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,010.63	990.89
27 15 13 00-0612 MLF 3 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,151.13	1,026.03
27 15 13 00-0613 MLF 4 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,333.08	1,059.75
27 15 13 00-0614 MLF 5 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,563.06	1,131.44
27 15 13 00-0615 MLF 6 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	2,791.64	1,203.12
27 15 13 00-0616 MLF 8 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	3,319.23	1,345.08
27 15 13 00-0617 MLF 12 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	4,321.91	1,772.35
27 15 13 00-0618 MLF 24 Pair #18 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	6,436.11	2,618.47
27 15 13 00-0619 MLF 1 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,590.46	870.01
27 15 13 00-0620 MLF 2 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,777.36	900.94
27 15 13 00-0621 MLF 3 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit.....	1,912.24	931.86

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0622 MLF 4 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,146.67	964.18
27 15 13 00-0623 MLF 5 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,368.02	1,028.83
27 15 13 00-0624 MLF 6 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,768.00	1,093.49
27 15 13 00-0625 MLF 8 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,094.31	1,222.80
27 15 13 00-0626 MLF 12 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,937.27	1,612.12
27 15 13 00-0627 MLF 24 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,917.87	2,380.94
27 15 13 00-0628 MLF 25 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	6,230.83	2,437.16
27 15 13 00-0629 MLF 36 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	7,387.45	2,837.73
27 15 13 00-0630 MLF 40 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	7,922.16	3,037.32
27 15 13 00-0631 MLF 50 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	9,564.50	3,796.29
27 15 13 00-0632 MLF 100 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	12,911.55	4,998.01
27 15 13 00-0633 MLF 250 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	24,889.45	9,206.11
27 15 13 00-0634 MLF 500 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	37,378.70	12,182.99
27 15 13 00-0635 MLF 750 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	49,929.69	15,352.42
27 15 13 00-0636 MLF 1200 Pair #20 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	70,245.56	21,057.40
27 15 13 00-0637 MLF 1 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,539.52	870.01
27 15 13 00-0638 MLF 2 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,677.82	900.94
27 15 13 00-0639 MLF 3 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,782.84	931.86
27 15 13 00-0640 MLF 4 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	1,952.03	964.18
27 15 13 00-0641 MLF 5 Pair #22 AWG, Solid, Low Voltage, Plenum Rated, Non-Shielded, Installed In Conduit .....	2,132.63	1,028.83
27 15 13 00-0642 MLF 6 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,426.98	1,093.49
27 15 13 00-0643 MLF 8 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	2,713.70	1,222.80
27 15 13 00-0644 MLF 12 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	3,486.39	1,612.12
27 15 13 00-0645 MLF 24 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,215.20	2,380.94
27 15 13 00-0646 MLF 25 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	5,449.33	2,437.16
27 15 13 00-0647 MLF 36 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	6,429.74	2,837.73
27 15 13 00-0648 MLF 40 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	6,891.81	3,037.32
27 15 13 00-0649 MLF 50 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	8,397.66	3,796.29
27 15 13 00-0650 MLF 100 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	11,260.36	4,998.01
27 15 13 00-0651 MLF 250 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	21,394.77	9,206.11
27 15 13 00-0652 MLF 500 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	31,209.11	12,182.99
27 15 13 00-0653 MLF 750 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	41,136.22	15,352.42
27 15 13 00-0654 MLF 1200 Pair #22 AWG, Solid, Non-Shielded, Plenum Rated, Low Voltage, Alarm And Communications Cable, Installed In Conduit .....	57,550.84	21,058.81
<b>27 15 13 00-0655 Sound System Cables</b> <small>(27 15 13)</small> Note: Cables shall be type CL2 or CM and as manufactured by West Penn Wire, Belden or approved equal.		
<b>27 15 13 00-0656 Speaker/Communications And Control Cable, Installed Exposed</b> <small>(27 15 13 00-0655)</small>		
<b>27 15 13 00-0657 Non-Plenum Rated Speaker/Communications And Control Cable, Installed Exposed</b> <small>(27 15 13 00-0656)</small>		
27 15 13 00-0658 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed .....	2,285.34	983.86
<i>For Work In Restricted Working Space, Add</i> .....	590.32	
27 15 13 00-0659 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed .....	2,178.21	983.86
<i>For Work In Restricted Working Space, Add</i> .....	590.32	
27 15 13 00-0660 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed .....	2,095.58	983.86
<i>For Work In Restricted Working Space, Add</i> .....	590.32	



<b>Communications</b>	<b>27</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>	
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0661 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,185.94 590.32	983.86
27 15 13 00-0662 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,476.38 590.32	983.86
27 15 13 00-0663 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,765.85 590.32	983.86
27 15 13 00-0664 MLF 4 Conductor, #20 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,477.60 590.32	983.86
27 15 13 00-0665 MLF 4 Conductor, #22 AWG, Stranded, 2 Shielded, 2 Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,338.14 590.32	983.86
<b>27 15 13 00-0666 Plenum Rated Speaker/Communications And Control Cable, Installed Exposed</b> <small>(27 15 13 00-0666)</small>		
27 15 13 00-0667 MLF 2 Conductor, #16 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,329.60 590.32	983.86
27 15 13 00-0668 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,206.36 590.32	983.86
27 15 13 00-0669 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,136.60 590.32	983.86
27 15 13 00-0670 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,253.00 590.32	983.86
27 15 13 00-0671 MLF 8 Conductors, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,498.91 590.32	983.86
27 15 13 00-0672 MLF 2 Conductors, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,471.78 590.32	983.86
27 15 13 00-0673 MLF 2 Conductors, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,301.32 590.32	983.86
27 15 13 00-0674 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,591.07 590.32	983.86
27 15 13 00-0675 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,880.03 590.32	983.86
27 15 13 00-0676 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,171.58 590.32	983.86
27 15 13 00-0677 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,229.16 590.32	983.86
<b>27 15 13 00-0678 Speaker/Communications And Control Cable, Installed In Conduit</b> <small>(27 15 13 00-0655)</small>		
<b>27 15 13 00-0679 Non-Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit</b> <small>(27 15 13 00-0678)</small>		
27 15 13 00-0680 MLF 2 Conductors, #16 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit .....	1,301.48	491.93
27 15 13 00-0681 MLF 2 Conductors, #18 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit .....	1,194.35	491.93
27 15 13 00-0682 MLF 2 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit .....	1,111.72	491.93
27 15 13 00-0683 MLF 4 Conductors, #22 AWG, Stranded, Unshielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit .....	1,202.08	491.93
27 15 13 00-0684 MLF 4 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,492.52	491.93
27 15 13 00-0685 MLF 6 Conductors, #18 AWG, Stranded, Shielded, Non-Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,781.99	491.93
27 15 13 00-0686 MLF 4 Conductors (2 Shielded, 2 Unshielded), #20 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit .....	1,493.74	491.93
27 15 13 00-0687 MLF 4 Conductors (2 Shielded, 2 Unshielded), #22 AWG, Stranded, Non-Plenum Rated, Microphone/Communications Cable, Installed In Conduit .....	1,354.28	491.93
<b>27 15 13 00-0688 Plenum Rated Speaker/Communications And Control Cable, Installed In Conduit</b> <small>(27 15 13 00-0678)</small>		
27 15 13 00-0689 MLF 2 Conductor, #6 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,345.74	491.93
27 15 13 00-0690 MLF 2 Conductor, #18 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,222.50	491.93

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 13 00-0691 MLF 2 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,152.74	491.93
27 15 13 00-0692 MLF 4 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,269.14	491.93
27 15 13 00-0693 MLF 8 Conductor, #22 AWG, Stranded, Unshielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,515.05	491.93
27 15 13 00-0694 MLF 2 Conductor, #16 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,487.92	491.93
27 15 13 00-0695 MLF 2 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,317.46	491.93
27 15 13 00-0696 MLF 4 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,607.21	491.93
27 15 13 00-0697 MLF 6 Conductor, #18 AWG, Stranded, Shielded, Plenum Rated, Speaker/Communications And Control Cable, Installed In Conduit.....	1,896.17	491.93
27 15 13 00-0698 MLF 2 Conductor, #20 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,245.30	491.93
27 15 13 00-0699 MLF 2 Conductor, #22 AWG, Stranded, Shielded, Plenum Rated, Microphone/Communications And Control Cable, Installed In Conduit.....	1,187.72	491.93

**27 15 23 Communications Optical Fiber Horizontal Cabling (27 15)**

Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.

27 15 23 00-0001	<b>Indoor Fiber Optic Cable (27 15 23)</b> Note: Distribution cables contain multiple tight-buffered fibers bundled under the same jacket with Kevlar strength members. Break-out cables contain multiple individually reinforced and jacketed simplex cables bundled together.		
27 15 23 00-0002	<b>Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0001)</b> Note: Excludes conduit or innerduct.		
27 15 23 00-0003	<b>Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)</b>		
27 15 23 00-0004	<b>Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0003)</b>		
27 15 23 00-0005	<b>Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)</b>		
27 15 23 00-0006	MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,215.08	553.76
27 15 23 00-0007	MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,303.13	553.76
27 15 23 00-0008	MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,332.53	553.76
27 15 23 00-0009	MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,437.22 1,338.06 1,520.56	553.76
27 15 23 00-0010	MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,467.24	553.76
27 15 23 00-0011	MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,648.69 1,489.57 1,595.17	553.76
27 15 23 00-0012	MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,680.73	646.05
27 15 23 00-0013	MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	3,649.97 1,663.40 2,151.49	646.05
27 15 23 00-0014	MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	4,386.60 1,753.53 1,961.57	646.05
27 15 23 00-0015	MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i>	4,529.47 1,839.80 2,054.38	646.05
27 15 23 00-0016	MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,430.41	646.05
27 15 23 00-0017	MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,670.00	646.05
27 15 23 00-0018	MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,930.25	646.05
27 15 23 00-0019	MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,250.48	738.35
27 15 23 00-0020	MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,969.03	738.35
27 15 23 00-0021	<b>50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0004)</b>		
27 15 23 00-0022	MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,240.44	553.76
27 15 23 00-0023	MLF 2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,396.95	553.76
27 15 23 00-0024	MLF 4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,678.39	553.76
27 15 23 00-0025	MLF 6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	1,974.65 747.03 1,022.31	553.76
27 15 23 00-0026	MLF 8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,256.10	553.76
27 15 23 00-0027	MLF 12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i>	2,833.81 632.58 991.27	553.76





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0028 MLF 18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,135.76	646.05
27 15 23 00-0029 MLF 24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,224.39	646.05
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>952.11</i>	
<i>For Steel Armored Cable, Add</i>	<i>952.11</i>	
27 15 23 00-0030 MLF 36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,298.21	646.05
27 15 23 00-0031 MLF 48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,372.03	646.05
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>1,699.05</i>	
27 15 23 00-0032 MLF 60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,445.85	646.05
27 15 23 00-0033 MLF 72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,519.67	646.05
27 15 23 00-0034 MLF 96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	17,682.12	646.05
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	<i>7,317.62</i>	
27 15 23 00-0035 MLF 120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	21,983.59	738.35
27 15 23 00-0036 MLF 144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	26,131.23	738.35
<b>27 15 23 00-0037</b> <b>62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0004)</small>		
27 15 23 00-0038 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,256.31	553.76
27 15 23 00-0039 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,420.65	553.76
27 15 23 00-0040 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,716.17	553.76
27 15 23 00-0041 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,027.24	553.76
27 15 23 00-0042 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,322.76	553.76
27 15 23 00-0043 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,929.35	553.76
27 15 23 00-0044 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,238.71	646.05
27 15 23 00-0045 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,431.77	646.05
27 15 23 00-0046 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,609.28	646.05
27 15 23 00-0047 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,786.79	646.05
27 15 23 00-0048 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,964.31	646.05
27 15 23 00-0049 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,141.82	646.05
27 15 23 00-0050 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,512.39	646.05
27 15 23 00-0051 MLF 120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	23,021.24	738.35
27 15 23 00-0052 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	27,376.27	738.35
<b>27 15 23 00-0053</b> <b>Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0003)</small>		
<b>27 15 23 00-0054</b> <b>Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0053)</small>		
27 15 23 00-0055 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,031.13	553.76
27 15 23 00-0056 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,359.50	553.76
27 15 23 00-0057 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,081.90	553.76
27 15 23 00-0058 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,426.65	553.76
27 15 23 00-0059 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,775.35	553.76
27 15 23 00-0060 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,125.28	646.05
27 15 23 00-0061 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,638.47	646.05
27 15 23 00-0062 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,640.21	646.05
27 15 23 00-0063 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,979.78	646.05
<b>27 15 23 00-0064</b> <b>50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0053)</small>		
27 15 23 00-0065 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,527.61	553.76
27 15 23 00-0066 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,033.56	553.76
27 15 23 00-0067 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,867.75	553.76
27 15 23 00-0068 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,107.60	553.76
27 15 23 00-0069 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,622.47	553.76

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0070 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,484.85	646.05
27 15 23 00-0071 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,342.97	646.05
27 15 23 00-0072 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,613.36	646.05
27 15 23 00-0073 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,067.51	646.05
<b>27 15 23 00-0074 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0053)</b>		
27 15 23 00-0075 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,607.84	553.76
27 15 23 00-0076 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,139.09	553.76
27 15 23 00-0077 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,015.00	553.76
27 15 23 00-0078 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,316.84	553.76
27 15 23 00-0079 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,857.45	553.76
27 15 23 00-0080 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,805.26	646.05
27 15 23 00-0081 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,756.28	646.05
27 15 23 00-0082 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,090.19	646.05
27 15 23 00-0083 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,817.04	646.05
<b>27 15 23 00-0084 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0002)</b>		
<b>27 15 23 00-0085 Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0084)</b>		
<b>27 15 23 00-0086 Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)</b>		
27 15 23 00-0087 MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,285.31	553.76
27 15 23 00-0088 MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,290.78	553.76
27 15 23 00-0089 MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,577.86	553.76
27 15 23 00-0090 MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,611.45	553.76
<i>For Aluminum Armored Cable, Add</i>	1,256.02	
<i>For Steel Armored Cable, Add</i>	5,330.15	
27 15 23 00-0091 MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,780.56	553.76
27 15 23 00-0092 MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,812.19	553.76
<i>For Aluminum Armored Cable, Add</i>	1,326.10	
<i>For Steel Armored Cable, Add</i>	5,700.76	
27 15 23 00-0093 MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,975.79	646.05
27 15 23 00-0094 MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,062.93	646.05
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,084.57	
<i>For Steel Armored Cable, Add</i>	5,568.60	
27 15 23 00-0095 MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	7,940.46	646.05
27 15 23 00-0096 MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,143.16	646.05
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	1,662.87	
<i>For Steel Armored Cable, Add</i>	6,680.57	
27 15 23 00-0097 MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,792.71	646.05
27 15 23 00-0098 MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,553.92	646.05
27 15 23 00-0099 MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,214.05	646.05
<b>27 15 23 00-0100 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0085)</b>		
27 15 23 00-0101 MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,238.73	553.76
27 15 23 00-0102 MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,895.80	553.76
27 15 23 00-0103 MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,491.78	553.76
27 15 23 00-0104 MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,099.72	553.76
<i>For Aluminum Armored Cable, Add</i>	-375.41	
<i>For Steel Armored Cable, Add</i>	-39.23	
27 15 23 00-0105 MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,682.24	553.76
27 15 23 00-0106 MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,188.36	553.76
<i>For Aluminum Armored Cable, Add</i>	-744.87	
<i>For Steel Armored Cable, Add</i>	-363.26	
27 15 23 00-0107 MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,338.35	646.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0108 MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,661.27	646.05
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	2,550.22	
<i>For Steel Armored Cable, Add</i>	5,947.85	
27 15 23 00-0109 MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,953.53	646.05
27 15 23 00-0110 MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	18,245.79	646.05
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	7,572.77	
27 15 23 00-0111 MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	22,538.05	646.05
27 15 23 00-0112 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	26,830.31	646.05
27 15 23 00-0113 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	35,445.49	646.05
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	15,145.55	
<b>27 15 23 00-0114 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0085)</small>		
27 15 23 00-0115 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,254.52	553.76
27 15 23 00-0116 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	1,944.45	553.76
27 15 23 00-0117 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	2,570.22	553.76
27 15 23 00-0118 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,208.56	553.76
27 15 23 00-0119 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,820.21	553.76
27 15 23 00-0120 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,351.63	553.76
27 15 23 00-0121 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,551.43	646.05
27 15 23 00-0122 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,090.50	646.05
27 15 23 00-0123 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,597.37	646.05
27 15 23 00-0124 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	19,104.24	646.05
27 15 23 00-0125 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	23,611.11	646.05
27 15 23 00-0126 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	28,117.99	646.05
27 15 23 00-0127 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	37,163.93	646.05
<b>27 15 23 00-0128 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0084)</small>		
<b>27 15 23 00-0129 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0128)</small>		
27 15 23 00-0130 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,035.36	553.76
27 15 23 00-0131 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	3,434.88	553.76
27 15 23 00-0132 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	4,395.33	553.76
27 15 23 00-0133 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	5,336.60	553.76
27 15 23 00-0134 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,838.86	553.76
27 15 23 00-0135 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	9,679.75	646.05
27 15 23 00-0136 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	13,816.57	646.05
27 15 23 00-0137 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	16,646.47	646.05
27 15 23 00-0138 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,690.77	646.05
<b>27 15 23 00-0139 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0128)</small>		
27 15 23 00-0140 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,422.20	553.76
27 15 23 00-0141 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,028.15	553.76
27 15 23 00-0142 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	10,894.71	553.76
27 15 23 00-0143 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,355.67	553.76
27 15 23 00-0144 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	14,622.08	553.76
27 15 23 00-0145 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,024.01	646.05
27 15 23 00-0146 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	23,529.59	646.05
27 15 23 00-0147 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	25,963.55	646.05

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0148 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	41,546.63	646.05
<b>27 15 23 00-0149 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0128)</b>		
27 15 23 00-0150 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	6,697.17	553.76
27 15 23 00-0151 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	8,383.41	553.76
27 15 23 00-0152 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	11,393.30	553.76
27 15 23 00-0153 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	12,927.31	553.76
27 15 23 00-0154 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	15,307.03	553.76
27 15 23 00-0155 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	20,971.38	646.05
27 15 23 00-0156 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	24,652.23	646.05
27 15 23 00-0157 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	27,207.89	646.05
27 15 23 00-0158 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed In Conduit.....	43,570.12	646.05
<b>27 15 23 00-0159 Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0001)</b> Note: For non-conduit installations such as cable trays, surface runways, etc.		
<b>27 15 23 00-0160 Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0159)</b>		
<b>27 15 23 00-0161 Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0160)</b>		
<b>27 15 23 00-0162 Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)</b>		
27 15 23 00-0163 MLF 1-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,522.73 369.17	738.35
27 15 23 00-0164 MLF 2-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,610.78 369.17	738.35
27 15 23 00-0165 MLF 4-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,640.18 369.17	738.35
27 15 23 00-0166 MLF 6-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,744.87 1,338.06 1,520.56 369.17	738.35
27 15 23 00-0167 MLF 8-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,774.89 369.17	738.35
27 15 23 00-0168 MLF 12-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,956.34 1,489.57 1,595.17 369.17	738.35
27 15 23 00-0169 MLF 18-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,988.37 415.32	830.64
27 15 23 00-0170 MLF 24-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,957.61 1,663.40 2,151.49 415.32	830.64
27 15 23 00-0171 MLF 36-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,694.24 1,753.53 1,961.57 415.32	830.64
27 15 23 00-0172 MLF 48-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,837.11 1,839.80 2,054.38 415.32	830.64
27 15 23 00-0173 MLF 60-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	5,738.05 415.32	830.64
27 15 23 00-0174 MLF 72-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	5,977.64 415.32	830.64
27 15 23 00-0175 MLF 96-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	7,237.89 415.32	830.64
27 15 23 00-0176 MLF 120-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	9,558.11 461.46	922.93
27 15 23 00-0177 MLF 144-Fiber, Singlemode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	11,276.66 461.46	922.93
<b>27 15 23 00-0178 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)</b>		
27 15 23 00-0179 MLF 1-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	1,548.09 369.17	738.35



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0180	MLF		2-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,704.60 369.17	738.35
27 15 23 00-0181	MLF		4-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,986.04 369.17	738.35
27 15 23 00-0182	MLF		6-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,282.30 747.03 1,022.31 369.17	738.35
27 15 23 00-0183	MLF		8-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,563.75 369.17	738.35
27 15 23 00-0184	MLF		12-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,141.46 632.58 991.27 369.17	738.35
27 15 23 00-0185	MLF		18-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	3,443.40 415.32	830.64
27 15 23 00-0186	MLF		24-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Steel Armored Cable, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,532.03 952.11 952.11 415.32	830.64
27 15 23 00-0187	MLF		36-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	7,605.85 415.32	830.64
27 15 23 00-0188	MLF		48-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,679.67 1,699.05 415.32	830.64
27 15 23 00-0189	MLF		60-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	11,753.49 415.32	830.64
27 15 23 00-0190	MLF		72-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	13,827.31 415.32	830.64
27 15 23 00-0191	MLF		96-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Aluminum Armored Cable With Sub-Units, Add</i> <i>For Work In Restricted Working Space, Add</i>	17,989.76 7,317.62 415.32	830.64
27 15 23 00-0192	MLF		120-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	22,291.22 461.46	922.93
27 15 23 00-0193	MLF		144-Fiber, 50 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	26,438.86 461.46	922.93
<b>27 15 23 00-0194</b>			<b>62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed (27 15 23 00-0161)</b>		
27 15 23 00-0195	MLF		1-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,563.96 369.17	738.35
27 15 23 00-0196	MLF		2-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,728.30 369.17	738.35
27 15 23 00-0197	MLF		4-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,023.82 369.17	738.35
27 15 23 00-0198	MLF		6-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,334.89 369.17	738.35
27 15 23 00-0199	MLF		8-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	2,630.41 369.17	738.35
27 15 23 00-0200	MLF		12-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	3,237.00 369.17	738.35
27 15 23 00-0201	MLF		18-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	3,546.35 415.32	830.64
27 15 23 00-0202	MLF		24-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	5,739.41 415.32	830.64
27 15 23 00-0203	MLF		36-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	7,916.92 415.32	830.64
27 15 23 00-0204	MLF		48-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	10,094.43 415.32	830.64
27 15 23 00-0205	MLF		60-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	12,271.95 415.32	830.64
27 15 23 00-0206	MLF		72-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	14,449.46 415.32	830.64
27 15 23 00-0207	MLF		96-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	18,820.03 415.32	830.64
27 15 23 00-0208	MLF		120-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	23,328.87 461.46	922.93

<b>27</b>	<b>Communications</b>
<b>27 10</b>	<b>Structured Cabling</b>
<b>27 15</b>	<b>Communications Horizontal Cabling</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0209 MLF 144-Fiber, 62.5 Micron Multimode, Distribution Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	27,683.90 461.46	922.93
<b>27 15 23 00-0210 Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0160)</small>		
<b>27 15 23 00-0211 Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0210)</small>		
27 15 23 00-0212 MLF 2-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,338.78 369.17	738.35
27 15 23 00-0213 MLF 4-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,667.15 369.17	738.35
27 15 23 00-0214 MLF 6-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,389.55 369.17	738.35
27 15 23 00-0215 MLF 8-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,734.30 369.17	738.35
27 15 23 00-0216 MLF 12-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,083.00 369.17	738.35
27 15 23 00-0217 MLF 18-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,432.92 415.32	830.64
27 15 23 00-0218 MLF 24-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,946.11 415.32	830.64
27 15 23 00-0219 MLF 36-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,947.85 415.32	830.64
27 15 23 00-0220 MLF 48-Fiber, Singlemode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	13,287.42 415.32	830.64
<b>27 15 23 00-0221 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0210)</small>		
27 15 23 00-0222 MLF 2-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,835.26 369.17	738.35
27 15 23 00-0223 MLF 4-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,341.21 369.17	738.35
27 15 23 00-0224 MLF 6-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,175.40 369.17	738.35
27 15 23 00-0225 MLF 8-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,415.25 369.17	738.35
27 15 23 00-0226 MLF 12-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,930.12 369.17	738.35
27 15 23 00-0227 MLF 18-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,792.49 415.32	830.64
27 15 23 00-0228 MLF 24-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,650.61 415.32	830.64
27 15 23 00-0229 MLF 36-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,921.00 415.32	830.64
27 15 23 00-0230 MLF 48-Fiber, 50 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	16,375.15 415.32	830.64
<b>27 15 23 00-0231 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0210)</small>		
27 15 23 00-0232 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,915.49 369.17	738.35
27 15 23 00-0233 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	3,446.74 369.17	738.35
27 15 23 00-0234 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	4,322.65 369.17	738.35
27 15 23 00-0235 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	5,624.49 369.17	738.35
27 15 23 00-0236 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,165.10 369.17	738.35
27 15 23 00-0237 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	8,112.90 415.32	830.64
27 15 23 00-0238 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	10,063.92 415.32	830.64
27 15 23 00-0239 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	11,397.83 415.32	830.64
27 15 23 00-0240 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Riser Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	17,124.68 415.32	830.64
<b>27 15 23 00-0241 Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0159)</small>		



<b>Communications</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0242    Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0241)</small>		
27 15 23 00-0243    Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0244    MLF 1-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,592.96	1,592.96	738.35
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0245    MLF 2-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,598.43	1,598.43	738.35
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0246    MLF 4-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,885.51	1,885.51	738.35
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0247    MLF 6-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,919.10	1,919.10	738.35
For Aluminum Armored Cable, Add	1,256.02	
For Steel Armored Cable, Add	5,330.15	
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0248    MLF 8-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 2,088.21	2,088.21	738.35
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0249    MLF 12-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 2,119.84	2,119.84	738.35
For Aluminum Armored Cable, Add	1,326.10	
For Steel Armored Cable, Add	5,700.76	
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0250    MLF 18-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 4,283.43	4,283.43	830.64
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0251    MLF 24-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 5,370.57	5,370.57	830.64
For Aluminum Armored Cable With Sub-Units, Add	1,084.57	
For Steel Armored Cable, Add	5,568.60	
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0252    MLF 36-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 8,248.10	8,248.10	830.64
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0253    MLF 48-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 8,450.80	8,450.80	830.64
For Aluminum Armored Cable With Sub-Units, Add	1,662.87	
For Steel Armored Cable, Add	6,680.57	
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0254    MLF 60-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 10,100.35	10,100.35	830.64
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0255    MLF 72-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 11,861.56	11,861.56	830.64
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0256    MLF 96-Fiber, Singlemode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 15,521.69	15,521.69	830.64
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0257    50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed <small>(27 15 23 00-0242)</small>		
27 15 23 00-0258    MLF 1-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 1,546.38	1,546.38	738.35
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0259    MLF 2-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 2,203.45	2,203.45	738.35
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0260    MLF 4-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 2,799.43	2,799.43	738.35
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0261    MLF 6-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 3,407.37	3,407.37	738.35
For Aluminum Armored Cable, Add	-375.41	
For Steel Armored Cable, Add	-39.23	
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0262    MLF 8-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 3,989.89	3,989.89	738.35
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0263    MLF 12-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 4,496.01	4,496.01	738.35
For Aluminum Armored Cable, Add	-744.87	
For Steel Armored Cable, Add	-363.26	
For Work In Restricted Working Space, Add	369.17	
27 15 23 00-0264    MLF 18-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 5,645.99	5,645.99	830.64
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0265    MLF 24-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 9,968.91	9,968.91	830.64
For Aluminum Armored Cable With Sub-Units, Add	2,550.22	
For Steel Armored Cable, Add	5,947.85	
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0266    MLF 36-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 14,261.17	14,261.17	830.64
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0267    MLF 48-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 18,553.43	18,553.43	830.64
For Aluminum Armored Cable With Sub-Units, Add	7,572.77	
For Work In Restricted Working Space, Add	415.32	
27 15 23 00-0268    MLF 60-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... 22,845.69	22,845.69	830.64
For Work In Restricted Working Space, Add	415.32	

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0269 MLF 72-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	27,137.95	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0270 MLF 96-Fiber, 50 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	35,753.13	830.64
<i>For Aluminum Armored Cable With Sub-Units, Add</i>	15,145.55	
<i>For Work In Restricted Working Space, Add</i>	415.32	
<b>27 15 23 00-0271 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <sup>(27 15 23 00-0242)</sup>		
27 15 23 00-0272 MLF 1-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	1,562.17	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0273 MLF 2-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,252.10	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0274 MLF 4-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	2,877.87	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0275 MLF 6-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,516.21	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0276 MLF 8-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,127.86	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0277 MLF 12-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,659.28	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0278 MLF 18-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,859.07	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0279 MLF 24-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	10,398.14	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0280 MLF 36-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,905.01	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0281 MLF 48-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	19,411.88	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0282 MLF 60-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	23,918.75	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0283 MLF 72-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	28,425.63	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0284 MLF 96-Fiber, 62.5 Micron Multimode, Distribution Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	37,471.57	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
<b>27 15 23 00-0285 Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <sup>(27 15 23 00-0241)</sup>		
<b>27 15 23 00-0286 Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <sup>(27 15 23 00-0285)</sup>		
27 15 23 00-0287 MLF 2-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,343.01	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0288 MLF 4-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	3,742.53	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0289 MLF 6-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	4,702.98	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0290 MLF 8-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	5,644.25	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0291 MLF 12-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	7,146.51	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0292 MLF 18-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	9,987.39	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0293 MLF 24-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	14,124.21	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0294 MLF 36-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	16,954.11	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
27 15 23 00-0295 MLF 48-Fiber, Singlemode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	20,998.41	830.64
<i>For Work In Restricted Working Space, Add</i>	415.32	
<b>27 15 23 00-0296 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <sup>(27 15 23 00-0285)</sup>		
27 15 23 00-0297 MLF 2-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	6,729.85	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	
27 15 23 00-0298 MLF 4-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed.....	8,335.80	738.35
<i>For Work In Restricted Working Space, Add</i>	369.17	





<b>Communications</b>	<b>27</b>	
<b>Structured Cabling</b>	<b>27 10</b>	<b>27</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0299 MLF 6-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed... <i>For Work In Restricted Working Space, Add</i>	11,202.36 369.17	738.35
27 15 23 00-0300 MLF 8-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed... <i>For Work In Restricted Working Space, Add</i>	12,663.32 369.17	738.35
27 15 23 00-0301 MLF 12-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	14,929.73 369.17	738.35
27 15 23 00-0302 MLF 18-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	20,331.65 415.32	830.64
27 15 23 00-0303 MLF 24-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	23,837.23 415.32	830.64
27 15 23 00-0304 MLF 36-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	26,271.19 415.32	830.64
27 15 23 00-0305 MLF 48-Fiber, 50 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	41,854.27 415.32	830.64
<b>27 15 23 00-0306 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0285)</small>		
27 15 23 00-0307 MLF 2-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	7,004.82 369.17	738.35
27 15 23 00-0308 MLF 4-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	8,691.06 369.17	738.35
27 15 23 00-0309 MLF 6-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	11,700.95 369.17	738.35
27 15 23 00-0310 MLF 8-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	13,234.96 369.17	738.35
27 15 23 00-0311 MLF 12-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	15,614.68 369.17	738.35
27 15 23 00-0312 MLF 18-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	21,279.02 415.32	830.64
27 15 23 00-0313 MLF 24-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	24,959.87 415.32	830.64
27 15 23 00-0314 MLF 36-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	27,515.53 415.32	830.64
27 15 23 00-0315 MLF 48-Fiber, 62.5 Micron Multimode, Break-Out Plenum Rated, Tight Buffer, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	43,877.76 415.32	830.64
<b>27 15 23 00-0316 Hybrid, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
<b>27 15 23 00-0317 Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0316)</small>		
27 15 23 00-0318 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,638.49	553.76
27 15 23 00-0319 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,606.25	553.76
27 15 23 00-0320 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	5,739.93	646.05
27 15 23 00-0321 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	8,884.94	646.05
<b>27 15 23 00-0322 Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0316)</small>		
27 15 23 00-0323 MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	1,906.22	553.76
27 15 23 00-0324 MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	2,643.92	553.76
27 15 23 00-0325 MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	6,759.79	646.05
27 15 23 00-0326 MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed In Conduit.....	11,454.83	646.05
<b>27 15 23 00-0327 Hybrid, Indoor Fiber Optic Cable, Installed Exposed</b> <small>(27 15 23 00-0001)</small> Note: Singlemode and multimode combination cable. For non-conduit installations such as cable trays, surface runways, etc.		

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 23 00-0328</b> <b>Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed</b> <b>Exposed</b> <small>(27 15 23 00-0327)</small>		
27 15 23 00-0329    MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed ..... <i>For Work In Restricted Working Space, Add</i>	1,946.14 369.17	738.35
27 15 23 00-0330    MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,913.90 369.17	738.35
27 15 23 00-0331    MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	6,047.57 415.32	830.64
27 15 23 00-0332    MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Riser Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	9,192.58 415.32	830.64
<b>27 15 23 00-0333</b> <b>Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed</b> <b>Exposed</b> <small>(27 15 23 00-0327)</small>		
27 15 23 00-0334    MLF 6-Fiber, 2 Singlemode/4 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,213.87 369.17	738.35
27 15 23 00-0335    MLF 12-Fiber, 6 Singlemode/6 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	2,951.57 369.17	738.35
27 15 23 00-0336    MLF 24-Fiber, 12 Singlemode/12 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	7,067.43 415.32	830.64
27 15 23 00-0337    MLF 48-Fiber, 24 Singlemode/24 Multimode, Distribution Plenum Rated, Hybrid, Indoor Fiber Optic Cable, Installed Exposed..... <i>For Work In Restricted Working Space, Add</i>	11,762.47 415.32	830.64
<b>27 15 23 00-0338</b> <b>Outdoor Fiber Optic Cable</b> <small>(27 15 23)</small> Note: Cable buried in trench excludes excavation.		
<b>27 15 23 00-0339</b> <b>Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0338)</small> Note: Excludes conduit or innerduct.		
<b>27 15 23 00-0340</b> <b>Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0339)</small>		
<b>27 15 23 00-0341</b> <b>Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0340)</small>		
27 15 23 00-0342    MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,370.20 256.12	1,107.51
27 15 23 00-0343    MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,402.09 258.24	1,107.51
27 15 23 00-0344    MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,434.02 260.29	1,107.51
27 15 23 00-0345    MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,465.92 262.79	1,107.51
27 15 23 00-0346    MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,529.33 237.79	1,107.51
27 15 23 00-0347    MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,659.02 264.93	1,107.51
27 15 23 00-0348    MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,725.69 208.56	1,107.51
27 15 23 00-0349    MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,746.25 243.78	1,107.51
27 15 23 00-0350    MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,127.80 268.20	1,107.51
27 15 23 00-0351    MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,338.15 268.17	1,107.51
27 15 23 00-0352    MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,611.06 316.96	1,107.51
27 15 23 00-0353    MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,091.52 304.31	1,107.51
27 15 23 00-0354    MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,616.49 369.52	1,107.51
27 15 23 00-0355    MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,165.93 247.36	1,107.51
<b>27 15 23 00-0356</b> <b>50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0340)</small>		
27 15 23 00-0357    MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,244.46 -4.10	1,107.51
27 15 23 00-0358    MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,323.84 41.65	1,107.51
27 15 23 00-0359    MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,490.16 107.74	1,107.51
27 15 23 00-0360    MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,716.96 -65.42	1,107.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0361 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,811.46 -34.76	1,107.51
27 15 23 00-0362 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,132.76 -16.39	1,107.51
27 15 23 00-0363 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,813.16 -88.94	1,107.51
27 15 23 00-0364 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,814.86 -0.08	1,107.51
27 15 23 00-0365 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,929.96 -203.39	1,107.51
27 15 23 00-0366 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,704.86 -102.28	1,107.51
27 15 23 00-0367 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,706.56 469.28	1,107.51
27 15 23 00-0368 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,031.26 -210.64	1,107.51
27 15 23 00-0369 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	13,337.06 -281.69	1,107.51
27 15 23 00-0370 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	15,642.86 -334.85	1,107.51
<b>27 15 23 00-0371 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0340)</small>		
27 15 23 00-0372 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,148.95 109.53	1,107.51
27 15 23 00-0373 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,254.26 117.46	1,107.51
27 15 23 00-0374 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,359.40 125.19	1,107.51
27 15 23 00-0375 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,489.29 142.53	1,107.51
27 15 23 00-0376 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,675.30 148.62	1,107.51
27 15 23 00-0377 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,004.17 158.40	1,107.51
27 15 23 00-0378 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,315.70 182.15	1,107.51
27 15 23 00-0379 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,911.93 202.42	1,107.51
27 15 23 00-0380 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,609.30 232.74	1,107.51
27 15 23 00-0381 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,253.41 250.44	1,107.51
27 15 23 00-0382 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,933.25 283.46	1,107.51
27 15 23 00-0383 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,308.23 318.71	1,107.51
27 15 23 00-0384 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,705.28 361.70	1,107.51
27 15 23 00-0385 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,123.90 332.24	1,107.51
<b>27 15 23 00-0386 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0339)</small>		
<b>27 15 23 00-0387 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0396)</small>		
27 15 23 00-0388 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,552.80 202.40	1,107.51
27 15 23 00-0389 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,614.98 290.50	1,107.51
27 15 23 00-0390 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,633.64 278.41	1,107.51
27 15 23 00-0391 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,708.13 231.76	1,107.51
27 15 23 00-0392 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,731.37 277.00	1,107.51
27 15 23 00-0393 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,835.76 262.71	1,107.51
27 15 23 00-0394 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,929.35 265.83	1,107.51
27 15 23 00-0395 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,078.66 337.10	1,107.51
27 15 23 00-0396 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,289.01 341.50	1,107.51
27 15 23 00-0397 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,498.54 353.79	1,107.51
27 15 23 00-0398 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,782.62 304.32	1,107.51
27 15 23 00-0399 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,242.13 396.88	1,107.51

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0400 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,843.29 390.80	1,107.51
27 15 23 00-0401 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,335.23 312.17	1,107.51
<b>27 15 23 00-0402 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0386)</b>		
27 15 23 00-0403 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,762.42 286.42	1,107.51
27 15 23 00-0404 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,980.10 160.40	1,107.51
27 15 23 00-0405 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,266.53 34.37	1,107.51
27 15 23 00-0406 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,404.01 57.28	1,107.51
27 15 23 00-0407 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,541.50 57.28	1,107.51
27 15 23 00-0408 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,862.29 68.74	1,107.51
27 15 23 00-0409 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,148.72 263.51	1,107.51
27 15 23 00-0410 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,767.40 515.56	1,107.51
27 15 23 00-0411 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,386.07 859.28	1,107.51
27 15 23 00-0412 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,901.64 945.20	1,107.51
27 15 23 00-0413 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,577.60 1,202.98	1,107.51
27 15 23 00-0414 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,986.81 1,775.84	1,107.51
27 15 23 00-0415 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,697.15 1,340.47	1,107.51
27 15 23 00-0416 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,518.81 3,265.24	1,107.51
<b>27 15 23 00-0417 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit (27 15 23 00-0386)</b>		
27 15 23 00-0418 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,220.06 137.48	1,107.51
27 15 23 00-0419 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,323.17 148.62	1,107.51
27 15 23 00-0420 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,426.11 159.74	1,107.51
27 15 23 00-0421 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,529.23 170.86	1,107.51
27 15 23 00-0422 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,796.33 183.77	1,107.51
27 15 23 00-0423 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,058.25 215.35	1,107.51
27 15 23 00-0424 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,379.20 233.91	1,107.51
27 15 23 00-0425 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,000.41 289.00	1,107.51
27 15 23 00-0426 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,633.23 331.12	1,107.51
27 15 23 00-0427 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,268.24 368.72	1,107.51
27 15 23 00-0428 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,935.94 411.18	1,107.51
27 15 23 00-0429 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,290.87 484.83	1,107.51
27 15 23 00-0430 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,039.71 501.20	1,107.51
27 15 23 00-0431 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Installed In Conduit..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,064.60 517.40	1,107.51
<b>27 15 23 00-0432 Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0338)</b> Note: Excludes trenching.		
<b>27 15 23 00-0433 Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0432)</b>		
<b>27 15 23 00-0434 Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench (27 15 23 00-0433)</b>		
27 15 23 00-0435 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,216.38 256.12	
27 15 23 00-0436 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,248.27 258.24	
27 15 23 00-0437 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,280.20 260.29	



<b>Communications</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0438 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,312.10 262.79	
27 15 23 00-0439 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,375.51 237.79	
27 15 23 00-0440 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,505.20 264.93	
27 15 23 00-0441 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,571.87 208.56	
27 15 23 00-0442 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,592.43 243.78	
27 15 23 00-0443 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,973.98 268.20	
27 15 23 00-0444 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,452.50 268.17	
27 15 23 00-0445 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,774.20 316.96	
27 15 23 00-0446 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,937.70 304.31	
27 15 23 00-0447 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,462.67 369.52	
27 15 23 00-0448 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,012.11 247.36	
<b>27 15 23 00-0449 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0433)</small>		
27 15 23 00-0450 MLF 2-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,090.64 -4.10	
27 15 23 00-0451 MLF 4-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,170.02 41.65	
27 15 23 00-0452 MLF 6-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,336.34 107.74	
27 15 23 00-0453 MLF 8-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,563.14 -65.42	
27 15 23 00-0454 MLF 12-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,657.64 -34.76	
27 15 23 00-0455 MLF 18-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,978.94 -16.39	
27 15 23 00-0456 MLF 24-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,659.34 -88.94	
27 15 23 00-0457 MLF 36-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,681.04 -0.08	
27 15 23 00-0458 MLF 48-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,776.14 -203.39	
27 15 23 00-0459 MLF 60-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,551.04 -102.28	
27 15 23 00-0460 MLF 72-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,552.74 469.28	
27 15 23 00-0461 MLF 96-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,877.44 -210.64	
27 15 23 00-0462 MLF 120-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	13,183.24 -281.69	
27 15 23 00-0463 MLF 144-Fiber, 50 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	15,489.04 -334.85	
<b>27 15 23 00-0464 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0433)</small>		
27 15 23 00-0465 MLF 2-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	1,995.13 109.53	
27 15 23 00-0466 MLF 4-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,100.44 117.46	
27 15 23 00-0467 MLF 6-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,205.58 125.19	
27 15 23 00-0468 MLF 8-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,335.47 142.53	
27 15 23 00-0469 MLF 12-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,521.48 148.62	
27 15 23 00-0470 MLF 18-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,850.35 158.40	
27 15 23 00-0471 MLF 24-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,161.88 182.15	
27 15 23 00-0472 MLF 36-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,758.11 202.42	
27 15 23 00-0473 MLF 48-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,455.48 232.74	
27 15 23 00-0474 MLF 60-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,099.59 250.44	
27 15 23 00-0475 MLF 72-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,779.43 283.46	
27 15 23 00-0476 MLF 96-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,154.41 318.71	

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0477 MLF 120-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,551.46 361.70	
27 15 23 00-0478 MLF 144-Fiber, 62.5 Micron Multimode, Single Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,970.08 332.24	
<b>27 15 23 00-0479 Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <sup>(27 15 23 00-0432)</sup>		
<b>27 15 23 00-0480 Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <sup>(27 15 23 00-0479)</sup>		
27 15 23 00-0481 MLF 2-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,398.98 202.40	
27 15 23 00-0482 MLF 4-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,461.16 290.50	
27 15 23 00-0483 MLF 6-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,479.82 278.41	
27 15 23 00-0484 MLF 8-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,554.31 231.76	
27 15 23 00-0485 MLF 12-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,577.55 277.00	
27 15 23 00-0486 MLF 18-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,681.94 262.71	
27 15 23 00-0487 MLF 24-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,775.53 265.83	
27 15 23 00-0488 MLF 36-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,924.84 337.10	
27 15 23 00-0489 MLF 48-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,135.19 341.50	
27 15 23 00-0490 MLF 60-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,344.72 353.79	
27 15 23 00-0491 MLF 72-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,628.80 304.32	
27 15 23 00-0492 MLF 96-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,088.31 396.88	
27 15 23 00-0493 MLF 120-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,689.47 390.80	
27 15 23 00-0494 MLF 144-Fiber, Singlemode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,181.41 312.17	
<b>27 15 23 00-0495 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <sup>(27 15 23 00-0479)</sup>		
27 15 23 00-0496 MLF 2-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,608.60 286.42	
27 15 23 00-0497 MLF 4-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,826.28 160.40	
27 15 23 00-0498 MLF 6-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,112.71 34.37	
27 15 23 00-0499 MLF 8-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,250.19 57.28	
27 15 23 00-0500 MLF 12-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,387.68 57.28	
27 15 23 00-0501 MLF 18-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,708.47 68.74	
27 15 23 00-0502 MLF 24-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,994.90 263.51	
27 15 23 00-0503 MLF 36-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,613.58 515.56	
27 15 23 00-0504 MLF 48-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,232.25 859.28	
27 15 23 00-0505 MLF 60-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,747.82 945.20	
27 15 23 00-0506 MLF 72-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	6,423.78 1,202.98	
27 15 23 00-0507 MLF 96-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,832.99 1,775.84	
27 15 23 00-0508 MLF 120-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,543.33 1,340.47	
27 15 23 00-0509 MLF 144-Fiber, 50 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	10,364.99 3,265.24	
<b>27 15 23 00-0510 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench</b> <sup>(27 15 23 00-0479)</sup>		
27 15 23 00-0511 MLF 2-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,066.24 137.48	
27 15 23 00-0512 MLF 4-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,169.35 148.62	
27 15 23 00-0513 MLF 6-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,272.29 159.74	
27 15 23 00-0514 MLF 8-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,375.41 170.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 23 00-0515 MLF 12-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,642.51 183.77	
27 15 23 00-0516 MLF 18-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	2,904.43 215.35	
27 15 23 00-0517 MLF 24-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,225.38 233.91	
27 15 23 00-0518 MLF 36-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	3,846.59 289.00	
27 15 23 00-0519 MLF 48-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	4,479.41 331.12	
27 15 23 00-0520 MLF 60-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,114.42 368.72	
27 15 23 00-0521 MLF 72-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	5,782.12 411.18	
27 15 23 00-0522 MLF 96-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	7,137.05 484.83	
27 15 23 00-0523 MLF 120-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	8,580.60 501.20	
27 15 23 00-0524 MLF 144-Fiber, 62.5 Micron Multimode, Double Jacket Loose Tube, Outdoor Fiber Optic Cable, Buried In Trench..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	9,910.78 517.40	
<b>27 15 23 00-0525 (Aerial) Outdoor Fiber Optic Cable, Installed On Poles</b> <small>(27 15 23 00-0338)</small>		
<b>27 15 23 00-0526 Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles</b> <small>(27 15 23 00-0525)</small>		
<b>27 15 23 00-0527 Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles</b> <small>(27 15 23 00-0526)</small>		
27 15 23 00-0528 MLF 2-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,277.21 171.31	4,018.41
27 15 23 00-0529 MLF 4-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,308.89 175.74	4,018.41
27 15 23 00-0530 MLF 6-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,340.99 180.06	4,018.41
27 15 23 00-0531 MLF 8-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,372.68 176.61	4,018.41
27 15 23 00-0532 MLF 12-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,436.08 205.89	4,018.41
27 15 23 00-0533 MLF 18-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,561.26 214.05	4,018.41
27 15 23 00-0534 MLF 24-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,658.73 236.59	4,018.41
27 15 23 00-0535 MLF 36-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	11,883.71 226.85	4,018.41
27 15 23 00-0536 MLF 48-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,082.22 263.55	4,018.41
27 15 23 00-0537 MLF 60-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,246.32 252.72	4,018.41
27 15 23 00-0538 MLF 72-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,451.02 288.93	4,018.41
27 15 23 00-0539 MLF 96-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	12,988.27 293.46	4,018.41
27 15 23 00-0540 MLF 120-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	13,564.68 350.17	4,018.41
27 15 23 00-0541 MLF 144-Fiber, Singlemode, Single Jacket Loose Tube, (Aerial) Outdoor Fiber Optic Cable, Installed On Poles ..... <i>For Corrugated Coated Steel Tape Armored Cable, Add</i>	13,702.87 376.01	4,018.41
<b>27 15 23 00-0542 Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0338)</small> Note: Singlemode and multimode combination cable. Excludes conduit or innerduct.		
<b>27 15 23 00-0543 Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0542)</small>		
27 15 23 00-0544 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	4,059.05	922.93
27 15 23 00-0545 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	4,986.62	922.93
27 15 23 00-0546 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	7,052.93	922.93
<b>27 15 23 00-0547 Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit</b> <small>(27 15 23 00-0542)</small>		
27 15 23 00-0548 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	5,242.13	922.93
27 15 23 00-0549 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	5,769.25	922.93
27 15 23 00-0550 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Installed In Conduit .....	8,075.04	922.93
<b>27 15 23 00-0551 Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench</b> <small>(27 15 23 00-0338)</small> Note: Singlemode and multimode combination cable. Excludes trenching.		

<b>27</b>	<b>Communications</b>
<b>27 10</b>	<b>Structured Cabling</b>
<b>27 15</b>	<b>Communications Horizontal Cabling</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 15 23 00-0552</b> Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench <sup>(27 15 23 00-0551)</sup>		
27 15 23 00-0553 MLF 12-Fiber, 6 Singlemode/6 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	3,905.23	846.02
27 15 23 00-0554 MLF 24-Fiber, 12 Singlemode/12 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	4,832.80	846.02
27 15 23 00-0555 MLF 48-Fiber, 24 Singlemode/24 Multimode, Riser Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	6,899.11	846.02
<b>27 15 23 00-0556</b> Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench <sup>(27 15 23 00-0551)</sup>		
27 15 23 00-0557 MLF 12-Fiber, 6 Singlemode/6 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	5,088.31	846.02
27 15 23 00-0558 MLF 24-Fiber, 12 Singlemode/12 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	5,615.43	846.02
27 15 23 00-0559 MLF 48-Fiber, 24 Singlemode/24 Multimode, Plenum Rated, Hybrid, Indoor/Outdoor Fiber Optic Cable, Buried In Trench.....	7,921.22	846.02
<b>27 15 33</b> <b>Communications Coaxial Horizontal Cabling</b> <sup>(27 15)</sup>		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
<b>27 15 33 00-0001</b> Indoor Coaxial Cable <sup>(27 15 33)</sup>		
<b>27 15 33 00-0002</b> Coaxial Distribution Cable <sup>(27 15 33 00-0001)</sup>		
Note: Cables shall be as Belden, Times Fiber, West Penn or approved equal. For tasks installed in conduit, tasks exclude conduit.		
27 15 33 00-0003 MLF RG-6/U Coaxial Distribution Cable, Installed In Conduit.....	3,328.47	449.76
27 15 33 00-0004 MLF RG-6A/U Coaxial Distribution Cable, Installed In Conduit.....	12,493.69	449.76
27 15 33 00-0005 MLF RG-8/U Coaxial Distribution Cable, Installed In Conduit.....	6,547.43	475.06
27 15 33 00-0006 MLF RG-8A/U Coaxial Distribution Cable, Installed In Conduit.....	8,269.05	475.06
27 15 33 00-0007 MLF RG-11/U Coaxial Distribution Cable, Installed In Conduit.....	7,333.87	562.21
27 15 33 00-0008 MLF RG-11A/U Coaxial Distribution Cable, Installed In Conduit.....	10,663.34	562.21
27 15 33 00-0009 MLF RG-11/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	23,129.01	787.09
27 15 33 00-0010 MLF RG-58/U Coaxial Distribution Cable, Installed In Conduit.....	2,445.59	393.55
27 15 33 00-0011 MLF RG-58A/U Coaxial Distribution Cable, Installed In Conduit.....	2,786.74	393.55
27 15 33 00-0012 MLF RG-58C/U Coaxial Distribution Cable, Installed In Conduit.....	3,387.70	393.55
27 15 33 00-0013 MLF RG-58/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	8,296.94	787.09
27 15 33 00-0014 MLF RG-59/U Coaxial Distribution Cable, Installed In Conduit.....	4,039.42	393.55
27 15 33 00-0015 MLF RG-59/U Coaxial Distribution Cable, Plenum Rated, Installed Exposed.....	10,085.03	787.09
27 15 33 00-0016 MLF 1/2" Hard Line Coaxial, Installed In Conduit.....	3,348.27	562.21
<b>27 15 33 00-0017</b> Coaxial, Indoor Telecommunications Cable <sup>(27 15 33 00-0001)</sup>		
<b>27 15 33 00-0018</b> Coaxial, Indoor Telecommunications Cable, Installed In Conduit <sup>(27 15 33 00-0017)</sup>		
27 15 33 00-0019 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9108).....	2,031.97	646.05
27 15 33 00-0020 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82108).....	4,756.57	646.05
27 15 33 00-0021 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 9114).....	1,690.56	738.35
27 15 33 00-0022 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed In Conduit (Belden 82120).....	5,983.69	738.35
<b>27 15 33 00-0023</b> Coaxial, Indoor Telecommunications Cable, Installed Exposed <sup>(27 15 33 00-0017)</sup>		
27 15 33 00-0024 MLF RG 59/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9108).....	3,108.72	1,292.10
For Work In Restricted Working Space, Add		646.05
27 15 33 00-0025 MLF RG 59/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82108).....	5,833.32	1,292.10
For Work In Restricted Working Space, Add		646.05
27 15 33 00-0026 MLF RG 6/U Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 9114).....	2,921.12	1,476.69
For Work In Restricted Working Space, Add		738.34
27 15 33 00-0027 MLF RG 6/U Plenum Coaxial, Indoor Telecommunications Cable, Installed Exposed (Belden 82120).....	7,214.25	1,476.69
For Work In Restricted Working Space, Add		738.34
<b>27 15 33 00-0028</b> Outdoor Coaxial Cable <sup>(27 15 33)</sup>		
<b>27 15 33 00-0029</b> Coaxial Cables "Television" Copper Covered Aluminum Center Core <sup>(27 15 33 00-0028)</sup>		
Note: Corrugated steel armor jacket.		
27 15 33 00-0030 MLF TV Coaxial Trunk Cable 3/4" Diameter, Direct Burial.....	9,054.22	2,104.34
27 15 33 00-0031 MLF TV Coaxial Distribution Cable 1/2" Diameter, Direct Burial.....	5,646.30	1,480.15
27 15 33 00-0032 MLF TV Coaxial Distribution Cable 3/8" Diameter, Direct Burial.....	4,923.65	873.25
27 15 33 00-0033 MLF TV Coaxial Cable Drop 1/4" Diameter, Direct Burial.....	2,533.92	873.25
27 15 33 00-0034 MLF 1/4" Diameter, TV Coaxial Cable Drop, Installed In Conduit.....	3,761.98	1,364.47
<b>27 15 43</b> <b>Communications Faceplates and Connectors</b> <sup>(27 15)</sup>		
<b>27 15 43 00-0001</b> Plastic Communications Faceplates <sup>(27 15 43)</sup>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0035 for modular jacks.		
27 15 43 00-0002 EA One Port, Single Gang, Plastic Communication Faceplate With Station ID.....	11.45	3.85
27 15 43 00-0003 EA Two Port, Single Gang, Plastic Communication Faceplate With Station ID.....	11.45	3.85
27 15 43 00-0004 EA Three Port, Single Gang, Plastic Communication Faceplate With Station ID.....	11.45	3.85
27 15 43 00-0005 EA Four Port, Single Gang, Plastic Communication Faceplate With Station ID.....	11.45	3.85
27 15 43 00-0006 EA Six Port, Single Gang, Plastic Communication Faceplate With Station ID.....	11.45	3.85
27 15 43 00-0007 EA Four Port, Double Gang, Plastic Communications Faceplate With Station ID.....	18.60	3.85
27 15 43 00-0008 EA Six Port, Double Gang, Plastic Communication Faceplate With Station ID.....	18.60	3.85





<b>Communications</b>	<b>27</b>	
<b>Structured Cabling</b>	<b>27 10</b>	<b>27</b>
<b>Communications Horizontal Cabling</b>	<b>27 15</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0009 EA Eight Port, Double Gang, Plastic Communication Faceplate With Station ID .....	18.60	3.85
27 15 43 00-0010 EA Nine Port, Double Gang, Plastic Communication Faceplate With Station ID .....	18.60	3.85
27 15 43 00-0011 EA Twelve Port, Double Gang, Plastic Communication Faceplate With Station ID .....	18.60	3.85
<b>27 15 43 00-0012 Stainless Steel Communications Faceplates (27 15 43)</b>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0035 for modular jacks.		
<b>27 15 43 00-0013 Stainless Steel Communications Faceplates (27 15 43 00-0012)</b>		
27 15 43 00-0014 EA One Port, Single Gang, Stainless Steel Communications Faceplate .....	20.52	3.85
27 15 43 00-0015 EA Two Port, Single Gang, Stainless Steel Communications Faceplate .....	20.52	3.85
27 15 43 00-0016 EA Three Port, Single Gang, Stainless Steel Communications Faceplate .....	20.52	3.85
27 15 43 00-0017 EA Four Port, Single Gang, Stainless Steel Communications Faceplate .....	21.85	3.85
27 15 43 00-0018 EA Six Port, Single Gang, Stainless Steel Communications Faceplate .....	21.85	3.85
27 15 43 00-0019 EA Four Port, Double Gang, Stainless Steel Communications Faceplate .....	29.01	3.85
27 15 43 00-0020 EA Six Port, Double Gang, Stainless Steel Communications Faceplate .....	29.84	3.85
27 15 43 00-0021 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate .....	34.34	3.85
27 15 43 00-0022 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate .....	34.34	3.85
27 15 43 00-0023 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate .....	34.34	3.85
<b>27 15 43 00-0024 Stainless Steel Communications Faceplates With Station ID (27 15 43 00-0012)</b>		
27 15 43 00-0025 EA One Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	28.84	3.85
27 15 43 00-0026 EA Two Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	28.84	3.85
27 15 43 00-0027 EA Three Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	28.84	3.85
27 15 43 00-0028 EA Four Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	28.84	3.85
27 15 43 00-0029 EA Six Port, Single Gang, Stainless Steel Communications Faceplate With Station ID .....	28.84	3.85
27 15 43 00-0030 EA Four Port, Double Gang, Stainless Steel Communications Faceplate With Station ID .....	60.64	3.85
27 15 43 00-0031 EA Six Port, Double Gang, Stainless Steel Communications Faceplate With Station ID .....	60.64	3.85
27 15 43 00-0032 EA Eight Port, Double Gang, Stainless Steel Communications Faceplate With Station ID .....	60.64	3.85
27 15 43 00-0033 EA Nine Port, Double Gang, Stainless Steel Communication Faceplate With Station ID .....	60.64	3.85
27 15 43 00-0034 EA Twelve Port, Double Gang, Stainless Steel Communications Faceplate With Station ID .....	60.64	3.85
<b>27 15 43 00-0035 Snap-In Modular Jacks (27 15 43)</b>		
Note: Includes termination.		
27 15 43 00-0036 EA Cat 3, Snap-In Modular Jack .....	40.29	15.41
27 15 43 00-0037 EA Category 5E, Snap-In Modular Jack .....	42.12	15.41
27 15 43 00-0038 EA Category 5E Shielded, Snap-In Modular Jack .....	47.62	15.41
27 15 43 00-0039 EA Cat 6, Snap-In Modular Jack .....	47.62	15.41
27 15 43 00-0040 EA Cat 6 Shielded, Snap-In Modular Jack .....	53.77	15.41
27 15 43 00-0041 EA Cat 6A, Snap-In Modular Jack .....	54.71	15.41
27 15 43 00-0042 EA Voice, RJ-11, Snap-In Modular Jack .....	27.90	7.70
27 15 43 00-0043 EA SC Type Fiber Optic, Snap-In Modular Jack .....	44.45	15.41
27 15 43 00-0044 EA ST Type Fiber Optic, Snap-In Modular Jack .....	49.11	15.41
27 15 43 00-0045 EA LC Type Fiber Optic, Snap-In Modular Jack .....	58.27	15.41
27 15 43 00-0046 EA Blank Fill In, Snap-In Modular Jack .....	8.57	3.85
27 15 43 00-0047 EA Open Cable Pass Through Insert, Snap-In Modular Jack .....	9.90	3.85
27 15 43 00-0048 EA Coaxial F-Type Coupler, Snap-In Modular Jack .....	33.26	11.56
Note: Includes female to female connection.		
<i>For Gold Bulkhead, Add</i>		<i>1.78</i>
27 15 43 00-0049 EA RCA Jack Pass-Through Coupler, Snap-In Modular Jack .....	33.59	11.56
Note: Includes female to female connection.		
27 15 43 00-0050 EA RCA Solder Coupler, Snap-In Modular Jack .....	69.43	15.41
27 15 43 00-0051 EA RCA Jack With 110 Punch Down, Snap-In Modular Jack .....	82.92	15.41
27 15 43 00-0052 EA 3.5 m Mini Stereo Jack, Snap-In Modular Jack .....	41.62	15.41
27 15 43 00-0053 EA MT-RJ Pass-Through Coupler, Snap-In Modular Jack .....	41.18	7.70
27 15 43 00-0054 EA BNC Connector, Snap-In Modular Jack .....	47.12	15.41
27 15 43 00-0055 EA S-Video With 110 Punch Down, Snap-In Modular Jack .....	52.11	15.41
27 15 43 00-0056 PR Speaker Connectors, Snap-In Modular Jack .....	72.77	23.10
Note: Includes a pair of binding posts, banana jacks or spring clip connectors. Requires two open ports.		
27 15 43 00-0057 EA USB Audio Video Connector, Snap-In Modular Jack .....	75.08	15.41
<b>27 15 43 00-0058 Surface Mount Plastic Communication Boxes (27 15 43)</b>		
Note: Excludes modular jacks. See CSI section 27 15 43 00-0035 for modular jacks.		
27 15 43 00-0059 EA One Port, Surface Mount Plastic Communication Box With Station ID .....	43.25	19.25
27 15 43 00-0060 EA Two Port, Surface Mount Plastic Communication Box With Station ID .....	44.09	19.25
27 15 43 00-0061 EA Four Port, Surface Mount Plastic Communication Box With Station ID .....	49.83	19.25
27 15 43 00-0062 EA Six Port, Surface Mount Plastic Communication Box With Station ID .....	56.66	19.25
27 15 43 00-0063 EA Twelve Port, Surface Mount Plastic Communication Box With Station ID .....	63.82	19.25
<b>27 15 43 00-0064 Wall Mounted Telephone Faceplates (27 15 43)</b>		
Note: Includes standard telephone mounting studs.		
<b>27 15 43 00-0065 Plastic Faceplates For Wall Mounted Telephones (27 15 43 00-0064)</b>		
27 15 43 00-0066 EA Single Gang, 6-Position RJ25 Jack, Flush, Plastic Faceplate For Wall Mounted Telephones .....	51.45	19.22
<b>27 15 43 00-0067 Stainless Steel Faceplates For Wall Mounted Telephones (27 15 43 00-0064)</b>		

**27 Communications****27 10 Structured Cabling****27 15 Communications Horizontal Cabling**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 15 43 00-0068 EA Single Gang, Keystone Opening, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	38.70	7.69
Note: Requires one snap-in modular jack.		
27 15 43 00-0069 EA Single Gang, 6-Position RJ25 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	69.94	19.22
27 15 43 00-0070 EA Single Gang, 8-Position RJ45 Jack, Flush, Stainless Steel Faceplate For Wall Mounted Telephones.....	81.72	23.07
27 15 43 00-0071 EA Single Gang, Keystone Opening, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones.....	37.34	7.69
Note: Requires one snap-in modular jack.		
27 15 43 00-0072 EA Single Gang, 6-Position RJ25 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones .....	64.19	19.22
27 15 43 00-0073 EA Single Gang, 8-Position RJ45 Jack, Recessed, Stainless Steel Faceplate For Wall Mounted Telephones .....	76.12	23.07
<b>27 15 53 Communications Cable Innerduct (27 15)</b>		
Note: Cable installed in conduit includes pull wires and installation in conduit, innerduct, wiremold, etc. Cable installed exposed includes installation on exposed surfaces, uncovered wireways, cable trays, etc.		
<b>27 15 53 00-0001 Indoor Innerduct (27 15 53)</b>		
<b>27 15 53 00-0002 Indoor Innerduct, Installed In Conduit (27 15 53 00-0001)</b>		
<b>27 15 53 00-0003 Riser Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)</b>		
27 15 53 00-0004 MLF 1" Riser Rated, Indoor Innerduct, Installed In Conduit.....	5,804.34	2,307.32
27 15 53 00-0005 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed In Conduit.....	7,545.06	3,076.43
27 15 53 00-0006 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed In Conduit.....	9,943.91	3,845.54
27 15 53 00-0007 MLF 2" Riser Rated, Indoor Innerduct, Installed In Conduit.....	11,659.30	4,614.65
<b>27 15 53 00-0008 Plenum Rated, Indoor Innerduct, Installed In Conduit (27 15 53 00-0002)</b>		
27 15 53 00-0009 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed In Conduit .....	8,064.21	1,538.21
27 15 53 00-0010 MLF 1" Plenum Rated, Indoor Innerduct, Installed In Conduit .....	9,057.63	2,307.32
27 15 53 00-0011 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed In Conduit .....	11,503.34	3,076.43
27 15 53 00-0012 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	14,743.13	3,845.54
27 15 53 00-0013 MLF 2" Plenum Rated, Indoor Innerduct, Installed In Conduit.....	17,737.13	4,614.65
<b>27 15 53 00-0014 Indoor Innerduct, Installed Exposed (27 15 53 00-0001)</b>		
<b>27 15 53 00-0015 Riser Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)</b>		
27 15 53 00-0016 MLF 1" Riser Rated, Indoor Innerduct, Installed Exposed .....	7,342.55	3,076.43
For Work In Restricted Working Space, Add	1,845.86	
27 15 53 00-0017 MLF 1-1/4" Riser Rated, Indoor Innerduct, Installed Exposed .....	9,083.28	3,845.54
For Work In Restricted Working Space, Add	2,307.32	
27 15 53 00-0018 MLF 1-1/2" Riser Rated, Indoor Innerduct, Installed Exposed .....	11,482.12	4,614.65
For Work In Restricted Working Space, Add	2,768.79	
27 15 53 00-0019 MLF 2" Riser Rated, Indoor Innerduct, Installed Exposed .....	13,197.51	5,383.75
For Work In Restricted Working Space, Add	3,230.25	
<b>27 15 53 00-0020 Plenum Rated, Indoor Innerduct, Installed Exposed (27 15 53 00-0014)</b>		
27 15 53 00-0021 MLF 3/4" Plenum Rated, Indoor Innerduct, Installed Exposed.....	9,602.43	2,307.32
27 15 53 00-0022 MLF 1" Plenum Rated, Indoor Innerduct, Installed Exposed.....	10,595.84	3,076.43
For Work In Restricted Working Space, Add	1,845.86	
27 15 53 00-0023 MLF 1-1/4" Plenum Rated, Indoor Innerduct, Installed Exposed .....	13,041.56	3,845.54
For Work In Restricted Working Space, Add	2,307.32	
27 15 53 00-0024 MLF 1-1/2" Plenum Rated, Indoor Innerduct, Installed Exposed .....	16,281.34	4,614.65
For Work In Restricted Working Space, Add	2,768.79	
27 15 53 00-0025 MLF 2" Plenum Rated, Indoor Innerduct, Installed Exposed.....	19,275.34	5,383.75
For Work In Restricted Working Space, Add	3,230.25	
<b>27 15 53 00-0026 Outdoor Innerduct (27 15 53)</b>		
<b>27 15 53 00-0027 Outdoor Innerduct, Installed In Conduit (27 15 53 00-0026)</b>		
27 15 53 00-0028 MLF 1" Outdoor Innerduct, Installed In Conduit.....	5,500.59	2,307.32
27 15 53 00-0029 MLF 1-1/4" Outdoor Innerduct, Installed In Conduit.....	7,097.13	3,076.43
27 15 53 00-0030 MLF 1-1/2" Outdoor Innerduct, Installed In Conduit.....	9,038.22	3,845.54
27 15 53 00-0031 MLF 2" Outdoor Innerduct, Installed In Conduit.....	10,802.22	4,614.65
<b>27 15 53 00-0032 Outdoor Innerduct, Buried In Trench (27 15 53 00-0026)</b>		
27 15 53 00-0033 MLF 1" Outdoor Innerduct, Buried In Trench .....	3,962.37	
27 15 53 00-0034 MLF 1-1/4" Outdoor Innerduct, Buried In Trench .....	5,558.92	
27 15 53 00-0035 MLF 1-1/2" Outdoor Innerduct, Buried In Trench .....	7,500.00	
27 15 53 00-0036 MLF 2" Outdoor Innerduct, Buried In Trench .....	9,264.01	
<b>27 16 Communications Connecting Cords, Devices, and Adapters (27 10)</b>		
<b>27 16 16 Communications Media Converters, Adapters, and Transceivers (27 16)</b>		
<b>27 16 16 00-0001 Fiber Optic Receivers (27 16 16)</b>		
27 16 16 00-0002 EA Fiber Optic Receiver, Range 6.2 Miles .....	865.55	76.91



<b>Communications</b>	<b>27</b>
<b>Structured Cabling</b>	<b>27 10</b>
<b>Communications Connecting Cords, Devices, and Adapters</b>	<b>27 16</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 16 16 00-0003</b> Fiber Optic Transmitters <small>(27 16 16)</small>		
27 16 16 00-0004 EA Fiber Optic Transmitter, Range 6.2 Miles .....	865.54	76.91
<b>27 16 16 00-0005</b> Fiber Optic Repeaters <small>(27 16 16)</small>		
Note: Consist of transmitter and receiver, back-to-back. Excludes power source.		
27 16 16 00-0006 EA Fiber Optic Repeater, 6.2 Miles Transmitter And Receiver Back-Back, No Power .....	1,019.37	153.82
27 16 16 00-0007 EA Fiber Optic Digital Repeater, 2,000 Miles Transmitter And Receiver Back-Back, No Power .....	1,641.74	307.65
<b>27 16 16 00-0008</b> Fiber Optic Transceivers <small>(27 16 16)</small>		
27 16 16 00-0009 EA Fiber Optic Transceivers, 3,000 Miles Range .....	1,158.96	307.65
27 16 16 00-0010 EA Fiber Optic Transceivers, Digital 2,000 Miles Range .....	1,158.96	307.65
27 16 16 00-0011 EA Fiber Optic Ethernet Transceiver .....	1,505.29	461.46
27 16 16 00-0012 EA Transceiver (Low Cost Bi- Directional) .....	508.63	115.36
<b>27 16 19 Communications Patch Cords, Station Cords, and Cross Connect Wire</b> <small>(27 16 19)</small>		
<b>27 16 19 00-0001</b> Fiber Optic Patch Cords <small>(27 16 19)</small>		
<b>27 16 19 00-0002</b> Simplex Fiber Optic Patch Cables <small>(27 16 19 00-0001)</small>		
<b>27 16 19 00-0003</b> Singlemode, Simplex Fiber Optic Patch Cables <small>(27 16 19 00-0002)</small>		
27 16 19 00-0004 EA ST To ST Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	58.80	
<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0005 EA ST To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable .....	48.32	
<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0006 EA ST To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	61.95	
<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0007 EA SC To SC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	50.72	
<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0008 EA SC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable .....	58.37	
<i>For Each Additional Meter In Length, Add</i>	0.26	
27 16 19 00-0009 EA LC To LC Connectors, 1 Meter Length, Singlemode, Simplex Fiber Optic Patch Cable.....	57.52	
<i>For Each Additional Meter In Length, Add</i>	0.26	
<b>27 16 19 00-0010</b> Duplex Fiber Optic Patch Cables <small>(27 16 19 00-0001)</small>		
<b>27 16 19 00-0011</b> Singlemode, Duplex Fiber Optic Patch Cables <small>(27 16 19 00-0010)</small>		
27 16 19 00-0012 EA ST To ST Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable .....	100.96	
<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0013 EA ST To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	98.00	
<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0014 EA ST To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable .....	108.51	
<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0015 EA SC To SC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable .....	84.81	
<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0016 EA SC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable.....	100.08	
<i>For Each Additional Meter In Length, Add</i>	0.51	
27 16 19 00-0017 EA LC To LC Connectors, 1 Meter Length, Singlemode, Duplex Fiber Optic Patch Cable .....	98.41	
<i>For Each Additional Meter In Length, Add</i>	0.51	
<b>27 16 19 00-0018</b> Multimode, Duplex Fiber Optic Patch Cables <small>(27 16 19 00-0010)</small>		
27 16 19 00-0019 EA ST To ST Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	76.72	
<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0020 EA ST To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable .....	83.57	
<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0021 EA ST To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	84.27	
<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0022 EA ST To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	86.48	
<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0023 EA SC To SC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	77.01	
<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0024 EA SC To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable .....	86.86	
<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0025 EA SC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable .....	101.73	
<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0026 EA MTRJ To MTRJ Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	70.69	
<i>For Each Additional Meter In Length, Add</i>	1.48	
27 16 19 00-0027 EA LC To LC Connectors, 1 Meter Length, Multimode, Duplex Fiber Optic Patch Cable.....	85.58	
<i>For Each Additional Meter In Length, Add</i>	1.48	
<b>27 16 19 00-0028</b> Fiber Optic Cable Pig Tail <small>(27 16 19)</small>		
27 16 19 00-0029 EA Simplex Fiber Optic Cable Pig Tail .....	100.95	53.83
27 16 19 00-0030 EA Duplex Fiber Optic Cable Pig Tail .....	125.82	53.83
<b>27 16 19 00-0031</b> Ethernet Patch Cords <small>(27 16 19)</small>		

**27 Communications****27 10 Structured Cabling****27 16 Communications Connecting Cords, Devices, and Adapters**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

27 16 19 00-0032	EA	3' Category 5E Patch Cables With Boots.....	16.20	
27 16 19 00-0033	EA	5' Category 5E Patch Cables With Boots.....	17.46	
27 16 19 00-0034	EA	7' Category 5E Patch Cables With Boots.....	18.73	
27 16 19 00-0035	EA	10' Category 5E Patch Cables With Boots.....	27.38	
27 16 19 00-0036	EA	15' Category 5E Patch Cables With Boots.....	34.65	
27 16 19 00-0037	EA	25' Category 5E Patch Cables With Boots.....	44.25	
27 16 19 00-0038	EA	3' Category 6 Patch Cables With Boots.....	17.70	
27 16 19 00-0039	EA	5' Category 6 Patch Cables With Boots.....	20.90	
27 16 19 00-0040	EA	7' Category 6 Patch Cables With Boots.....	20.96	
27 16 19 00-0041	EA	10' Category 6 Patch Cables With Boots.....	25.85	
27 16 19 00-0042	EA	15' Category 6 Patch Cables With Boots.....	34.18	
27 16 19 00-0043	EA	25' Category 6 Patch Cables With Boots.....	41.66	
27 16 19 00-0044	EA	50' Category 6 Patch Cables With Boots.....	62.70	
27 16 19 00-0045	EA	100' Category 6 Patch Cables With Boots.....	108.17	
27 16 19 00-0046	EA	3' Category 6A Patch Cables With Boots.....	26.34	
27 16 19 00-0047	EA	5' Category 6A Patch Cables With Boots.....	27.88	
27 16 19 00-0048	EA	7' Category 6A Patch Cables With Boots.....	29.03	
27 16 19 00-0049	EA	10' Category 6A Patch Cables With Boots.....	34.61	
27 16 19 00-0050	EA	15' Category 6A Patch Cables With Boots.....	42.68	
27 16 19 00-0051	EA	25' Category 6A Patch Cables With Boots.....	52.60	
27 16 19 00-0052	EA	50' Category 6A Patch Cables With Boots.....	74.88	
27 16 19 00-0053	EA	100' Category 6A Patch Cables With Boots.....	130.52	
27 16 19 00-0054	EA	3' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E03-06).....	16.20	
27 16 19 00-0055	EA	5' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E05-06).....	17.46	
27 16 19 00-0056	EA	7' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E07-06).....	18.73	
27 16 19 00-0057	EA	10' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E10-06).....	27.38	
27 16 19 00-0058	EA	15' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E15-06).....	34.65	
27 16 19 00-0059	EA	25' Category 5E Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC5E25-06).....	44.25	
27 16 19 00-0060	EA	3' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC603-06).....	17.70	
27 16 19 00-0061	EA	5' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC605-06).....	20.90	
27 16 19 00-0062	EA	7' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC607-06).....	20.96	
27 16 19 00-0063	EA	10' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC610-06).....	25.85	
27 16 19 00-0064	EA	15' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC615-06).....	34.18	
27 16 19 00-0065	EA	25' Category 6 Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC625-06).....	41.66	
27 16 19 00-0066	EA	3' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A03-09).....	30.71	
27 16 19 00-0067	EA	5' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A05-09).....	32.61	
27 16 19 00-0068	EA	7' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A07-09).....	34.03	
27 16 19 00-0069	EA	10' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A10-09).....	40.02	
27 16 19 00-0070	EA	15' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A15-09).....	49.07	
27 16 19 00-0071	EA	25' Category 6A Patch Cables With Plastic Arch (Ortronics-Legrand OR-MC6A25-09).....	61.33	

**27 16 19 00-0072 Cross Connect Wire** (27 16 19)  
Note: Up to 20' length.

27 16 19 00-0073	EA	2-Pair Cross Connect Wire.....	24.08	
27 16 19 00-0074	EA	3-Pair Cross Connect Wire.....	32.21	
27 16 19 00-0075	EA	4-Pair Cross Connect Wire.....	40.28	

**27 20 Data Communications** (27)**27 21 Data Communications Network Equipment** (27 20)

Note: Includes testing of new devices and certification.

**27 21 16 Data Communications Routers, CSU/DSU, Multiplexers, Codecs, and Modems**

27 21 16 00-0001		Fiber Optic Modems (27 21 16)		
27 21 16 00-0002	EA	Fiber Optic Modems, Range 6.2 Miles.....	1,801.49	307.65
27 21 16 00-0003	EA	Fiber Optic Modem, Range 3.1 Miles, 12 Channel.....	3,284.24	307.65
27 21 16 00-0004		Ethernet Hubs and Switches (27 21 16)		
27 21 16 00-0005	EA	16 Port Managed Hub With Fiberport And Standard Management.....	4,181.39	231.03
27 21 16 00-0006	EA	12 Port, Industrial Ethernet Switch (Cisco IE-4000-4GC4GP4G-E).....	5,697.39	154.02
27 21 16 00-0007	EA	Power Supply (Cisco PWR-IE170W-PC-AC).....	1,698.79	77.01
27 21 16 00-0008		Network Equipment (27 21 16)		
27 21 16 00-0009		Communications Entrance Protection (27 21 16 00-0008)		
27 21 16 00-0010	EA	100-Pair, 5 Pin Configuration, 110 Termination, Building Entrance Terminal With Cover (Porta 24100-110-M110C).....	1,210.46	115.51
		Note: Excludes terminations.		
27 21 16 00-0011	EA	Solid State Protector Module With 4 OHM Heat Coils (CommScope 4C1S).....	14.65	1.54
27 21 16 00-0012		Communications Cabinets, Racks, Frames And Enclosures (27 21 16 00-0008)		
27 21 16 00-0013	EA	19" Width x 36" Height x 24" Depth, Wall Mounted Telecommunications Enclosure (Chatsworth 11840-736).....	1,461.25	115.51
		For Fan Kit (Chatsworth 12804-701), Add	197.62	
27 21 16 00-0014	EA	10 Outlet, 125 Volt, 20 Amperes, Telecommunications Cabinet Power Strip (Chatsworth 13239-757).....	1,299.69	7.70



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0015				<b>Communications Termination Blocks And Patch Panels</b> (27 21 16 00-0008)		
27 21 16 00-0016				<b>Communications Termination Blocks</b> (27 21 16 00-0015)		
27 21 16 00-0017	EA			4-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058810) .....	372.53	23.07
27 21 16 00-0018	EA			5-Pair, 300-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058802) .....	347.26	23.07
27 21 16 00-0019	EA			4-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058869) .....	821.01	23.07
27 21 16 00-0020	EA			5-Pair, 900-Pair Count, 110 Patch Panel System Terminal Block (CommScope 107058851) .....	764.17	23.07
27 21 16 00-0021	EA			110 Connector System Mounting Brackets (CommScope 107535593) .....	122.37	23.07
27 21 16 00-0022	EA			110 Connector System Mounting Brackets (CommScope 107535585) .....	131.56	23.07
27 21 16 00-0023	EA			110 Connector System Mounting Brackets (CommScope 107098816) .....	148.74	23.07
27 21 16 00-0024				<b>Communications Copper Patch Panels</b> (27 21 16 00-0015)		
				Note: Excludes cabinet and terminations.		
27 21 16 00-0025	EA			24 Port, Category 5E Patch Panel (CommScope 108208919) .....	377.63	50.05
27 21 16 00-0026	EA			48 Port, Category 5E Patch Panel (CommScope 108208935) .....	678.25	61.61
27 21 16 00-0027	EA			24 Port, Category 6 Patch Panel (CommScope 760062372) .....	550.77	50.05
27 21 16 00-0028	EA			48 Port, Category 6 Patch Panel (CommScope 760062380) .....	1,017.32	61.61
27 21 16 00-0029				<b>Communications Optical Fiber Patch Panels</b> (27 21 16 00-0015)		
27 21 16 00-0030				<b>Closet Connector Housings</b> (27 21 16 00-0029)		
27 21 16 00-0031	EA			48 Fiber Total Capacity, Closet Connector Housing (Corning CCH-01U) .....	522.05	30.80
				Note: Accepts up to 2 closet connector housing panels. Excludes panels.		
27 21 16 00-0032	EA			96 Fiber Total Capacity, Closet Connector Housing (Corning CCH-02U) .....	609.13	30.80
				Note: Accepts up to 4 closet connector housing panels. Excludes panels.		
27 21 16 00-0033	EA			288 Fiber Total Capacity, Closet Connector Housing (Corning CCH-04U) .....	759.28	30.80
				Note: Accepts up to 12 closet connector housing panels. Excludes panels.		
27 21 16 00-0034	EA			SC Duplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-91) .....	134.77	15.41
27 21 16 00-0035	EA			SC Duplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-59) .....	181.28	15.41
27 21 16 00-0036	EA			SC Simplex Multimode, 62.5 Micron, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-56) .....	151.19	15.41
27 21 16 00-0037	EA			SC Simplex Singlemode, 12 Fiber, Closet Connector Housing Panel (Corning CCH-CP-3C) .....	196.31	15.41
27 21 16 00-0038				<b>Communications Cable Management</b> (27 21 16 00-0008)		
27 21 16 00-0039				<b>Horizontal Communication Cable Management</b> (27 21 16 00-0038)		
27 21 16 00-0040	EA			1.7" Height, 19" Width, 3.7" Depth, 1 RU, Front Only, Horizontal Cable Manager (Panduit WMPFSE) .....	171.99	30.80
27 21 16 00-0041	EA			3-1/2" Height, 19" Width, 3.7" Depth, Horizontal Cable Manager (Panduit WMPF1E) .....	177.71	30.80
27 21 16 00-0042				<b>Vertical Communication Cable Management</b> (27 21 16 00-0038)		
27 21 16 00-0043	EA			6" Width x 84" Height, Double-Sided Vertical Cabling Section (Chatsworth 11729-703) .....	1,022.28	77.01
27 21 16 00-0044	EA			19" Width x 84" Height, Universal Rack (Chatsworth 48353-703) .....	1,059.29	77.01
27 21 16 00-0045	EA			23" Width x 84" Height, Universal Rack (Chatsworth 48383-703) .....	1,142.60	77.01
27 21 16 00-0046				<b>Communications Patch Cords, Station Cords, And Cross Connect Wire</b> (27 21 16 00-0008)		
27 21 16 00-0047				<b>Premise Cross-Connect Wire</b> (27 21 16 00-0046)		
27 21 16 00-0048	LF			1-Pair, 22 AWG Premise Cross-Connect Wire (General Cable 7041973) .....	1.58	0.77
27 21 16 00-0049				<b>Pathways For Communications Systems</b> (27 21 16 00-0008)		
27 21 16 00-0050				<b>Conduits And Backboxes For Communication Systems</b> (27 21 16 00-0049)		
27 21 16 00-0051				<b>Flexible Conduit For Communication Systems</b> (27 21 16 00-0050)		
27 21 16 00-0052	CLF			1" Diameter, Riser Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlon DF4X1C) .....	644.61	276.88
27 21 16 00-0053	CLF			1" Diameter, Plenum Rated, Non-Metallic Flexible Conduit With Pull Tape (Carlon CF4X1C) .....	943.78	276.88
27 21 16 00-0054				<b>Tube Cables For Communication Systems</b> (27 21 16 00-0050)		
27 21 16 00-0055				<b>Outdoor/All-Dielectric Tube Cables</b> (27 21 16 00-0054)		
27 21 16 00-0056	CLF			Two Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC02TOX) .....	505.83	184.58
27 21 16 00-0057	CLF			Seven Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC07TOX) .....	744.70	230.73
27 21 16 00-0058	CLF			Nineteen Tube, Outdoor/All-Dielectric Tube Cable (Sumitomo TC19TOX) .....	1,214.14	276.88
27 21 16 00-0059				<b>Indoor/Riser Rated Tube Cables</b> (27 21 16 00-0054)		
27 21 16 00-0060	CLF			Two Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC02TRX) .....	574.42	184.58
27 21 16 00-0061	CLF			Four Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC04TRX) .....	698.61	207.66
27 21 16 00-0062	CLF			Seven Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC07TRX) .....	792.33	230.73
27 21 16 00-0063	CLF			Nineteen Tube, Indoor/Riser Rated Tube Cable (Sumitomo TC19TRX) .....	1,429.47	276.88
27 21 16 00-0064				<b>Indoor/Plenum Rated Tube Cables</b> (27 21 16 00-0054)		
27 21 16 00-0065	CLF			Single Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC01TPX) .....	431.51	184.58
27 21 16 00-0066	CLF			Two Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC02TP2) .....	606.82	184.58

<b>27</b>	<b>27</b>	<b>Communications</b>
	<b>27 20</b>	<b>Data Communications</b>
	<b>27 21</b>	<b>Data Communications Network Equipment</b>



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 21 16 00-0067	CLF Four Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC04TP2) .....	919.65	207.66
27 21 16 00-0068	CLF Seven Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC07TP2) .....	1,323.98	230.73
27 21 16 00-0069	CLF Nineteen Tube, Indoor/Plenum Rated Tube Cable (Sumitomo TC19TP2) .....	4,030.52	276.88
<b>27 21 16 00-0070</b>	<b>Unjacketed Single Tube Cables (27 21 16 00-0054)</b>		
27 21 16 00-0071	CLF Single Tube, Unjacketed Single Tube Cable (Sumitomo TC01TGX).....	378.15	184.58
<b>27 21 16 00-0072</b>	<b>Multimode Fiber Bundles (27 21 16 00-0054)</b>		
	Note: Includes optical fiber cables.		
27 21 16 00-0073	CLF 2-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FR02M6).....	157.08	55.38
27 21 16 00-0074	CLF 4-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB04M6).....	231.39	55.38
27 21 16 00-0075	CLF 6-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB06M6).....	311.43	55.38
27 21 16 00-0076	CLF 12-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB12M6).....	555.33	55.38
27 21 16 00-0077	CLF 18-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB18M6).....	801.29	64.60
27 21 16 00-0078	CLF 24-Fiber, 62.5 Micron, Multimode Fiber Bundle (Sumitomo FB24M6).....	1,045.20	64.60
<b>27 21 16 00-0079</b>	<b>Singlemode Fiber Bundles (27 21 16 00-0054)</b>		
	Note: Includes optical fiber cables.		
27 21 16 00-0080	CLF 2-Fiber, Singlemode Fiber Bundle (Sumitomo FR02SX) .....	141.83	55.38
27 21 16 00-0081	CLF 4-Fiber, Singlemode Fiber Bundle (Sumitomo FB04SX).....	174.23	55.38
27 21 16 00-0082	CLF 6-Fiber, Singlemode Fiber Bundle (Sumitomo FB06SX).....	200.91	55.38
27 21 16 00-0083	CLF 12-Fiber, Singlemode Fiber Bundle (Sumitomo FB12SX).....	252.35	55.38
27 21 16 00-0084	CLF 18-Fiber, Singlemode Fiber Bundle (Sumitomo FB18SX).....	382.08	64.60
27 21 16 00-0085	CLF 24-Fiber, Singlemode Fiber Bundle (Sumitomo FB24SX).....	498.31	64.60
<b>27 21 16 00-0086</b>	<b>Tube Distribution Cabinets (27 21 16 00-0054)</b>		
27 21 16 00-0087	EA Modular Tube Distribution Cabinet (Sumitomo DE06MDU).....	302.21	77.01
	Note: Up to six 7-tube cables or two 19-tube cables.		
<b>27 21 16 00-0088</b>	<b>Modular Fiber Termination Cabinets (27 21 16 00-0054)</b>		
27 21 16 00-0089	EA 24-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT24WFM).....	376.93	77.01
27 21 16 00-0090	EA 48-Fiber Capacity, Wall Mount, Modular Fiber Termination Cabinet (Sumitomo FT48WFM).....	400.56	77.01
<b>27 21 16 00-0091</b>	<b>Tube Distribution Accessories (27 21 16 00-0054)</b>		
27 21 16 00-0092	EA Plastic Push/Pull Quick Release Pneumatic Cap For 8 mm Tube (Sumitomo DE08MA) .....	18.06	7.70
27 21 16 00-0093	EA Plastic Push/Pull Quick Release Pneumatic Coupling For 8 mm Tube (Sumitomo DE08MC2).....	19.72	7.70
27 21 16 00-0094	EA Brass Push/Pull Quick Release Pneumatic Coupling For 8 mm Bulkhead Tube (Sumitomo DE08MB) .....	23.98	7.70
<b>27 21 16 00-0095</b>	<b>Communications Optical Fiber Cabling (27 21 16 00-0008)</b>		
<b>27 21 16 00-0096</b>	<b>Communications Optical Fiber Cable Splicing And Terminations (27 21 16 00-0095)</b>		
<b>27 21 16 00-0097</b>	<b>Field Installed Fiber Connectors (27 21 16 00-0096)</b>		
27 21 16 00-0098	EA SC Type, Singlemode, Field Installed Fiber Connector (Corning 95-200-42) .....	49.93	11.56
27 21 16 00-0099	EA SC Type, 62.5 Micron Multimode, Field Installed Fiber Connector (Corning 95-000-41).....	44.46	11.56
<b>27 21 16 00-0100</b>	<b>Buffer Tube Fan-Out Kits (27 21 16 00-0096)</b>		
<b>27 21 16 00-0101</b>	<b>Buffer Tube Breakout Kits (Sumitomo) (27 21 16 00-0100)</b>		
	Note: Includes 900 micron tubing.		
27 21 16 00-0102	EA 2-Fiber Breakout Kit (Sumitomo FTFLD02) .....	330.52	153.82
27 21 16 00-0103	EA 4-Fiber Breakout Kit (Sumitomo FTFLD04) .....	336.23	153.82
27 21 16 00-0104	EA 6-Fiber Breakout Kit (Sumitomo FTFLD06) .....	341.28	153.82
27 21 16 00-0105	EA 12-Fiber Breakout Kit (Sumitomo FTFLD12) .....	356.97	153.82
27 21 16 00-0106	EA 18-Fiber Breakout Kit (Sumitomo FTFLD18) .....	378.42	153.82
27 21 16 00-0107	EA 24-Fiber Breakout Kit (Sumitomo FTFLD24) .....	394.35	153.82
<b>27 21 16 00-0108</b>	<b>Buffer Tube Fan-Out Kits (Corning) (27 21 16 00-0100)</b>		
27 21 16 00-0109	EA 12 Fiber, 25" Tube Length, Indoor Buffer Tube Fan-Out Kit (Corning Fan-BT25-12) .....	333.17	153.82
27 21 16 00-0110	EA 12 Fiber, 25" Tube Length, Outdoor Buffer Tube Fan-Out Kit (Corning Fan-OD25-12).....	389.78	153.82
<b>27 21 16 00-0111</b>	<b>Communications Copper Cabling (27 21 16 00-0008)</b>		
<b>27 21 16 00-0112</b>	<b>Copper Communications Cable Splicing And Terminations (27 21 16 00-0111)</b>		
<b>27 21 16 00-0113</b>	<b>Copper Communications Cable Splice Cases (27 21 16 00-0112)</b>		
27 21 16 00-0114	EA 6.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000626).....	1,345.18	307.65
27 21 16 00-0115	EA 9.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8000630).....	1,553.79	307.65
27 21 16 00-0116	EA 12.5" x 28.4" Copper Communications Cable Splice Case (Preformed Line Products 8006219).....	2,246.98	307.65



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>27 21 16 00-0117</b>			<b>Modular Splice Connectors</b> (27 21 16 00-0112)		
27 21 16 00-0118	EA		25-Pair, Straight Body Only, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-SC1-25).....	163.94	76.91
27 21 16 00-0119	EA		25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Dry Modular Splice Connector (3M 710-SD1-25).....	161.69	76.91
27 21 16 00-0120	EA		25-Pair, Straight/Half Tap Body, 26-24 Gauge Cable, Filled Modular Splice Connector (3M 710-TC1-25).....	163.99	76.91
27 21 16 00-0121	EA		25-Pair, Bridge Body, 26-22 Gauge Cable, Filled Modular Splice Connector (3M 710-BC1-25).....	163.67	76.91

**27 21 26 Data Communications Network Management** (27 21)

<b>27 21 26 00-0001</b>			<b>Data Communications Network Management</b> (27 21 26)		
27 21 26 00-0002	EA		3 Port, Terminal/Serial Device Server (Comtrol 99560-9).....	704.25	38.46
27 21 26 00-0003	EA		2 Port, Terminal/Serial Device Server (Comtrol 99550-0).....	544.44	38.46
27 21 26 00-0004	EA		4 Port, DB9 Terminal/Serial Device Server (Comtrol 99445-9).....	755.57	38.46
27 21 26 00-0005	EA		4 Port, DB9 Terminal/Serial Device Server (Comtrol 99448-0).....	1,178.94	38.46
27 21 26 00-0006	EA		24 Watt, Din Rail Mountable, Power Adapter (Comtrol PS1020).....	110.71	
27 21 26 00-0007	EA		Remote Data Port, Spectra Positioning System (Pelco IPS_RDPE_2).....	522.62	23.07
27 21 26 00-0008	EA		Sennetech Code Translator (Pelco SCT_100_AD232).....	884.86	38.46
27 21 26 00-0009	EA		VPN Router (Cisco 819HG).....	5,555.75	492.86
27 21 26 00-0010	EA		Cisco Catalyst 3000 Series Switches (Cisco IE-3000 - 8TC).....	4,106.35	492.86
27 21 26 00-0011	EA		WS-C4507R+E Chassis, Two WS-X4648-RJ45V+E, Sup7L-E, LAN Base (Cisco WS-C4507RE+96V+).....	19,707.34	184.58
27 21 26 00-0012	EA		SMARTnet Extended Service Agreement, SNTC-8X5XNBD WS-C4507R+E Chassis,2 WS-X4648-RJ45V+E (Cisco CON-SNT-C4507REV).....	597.25	
27 21 26 00-0013	EA		Sup8-E And WS-X4748-RJ45V+E Upgrade For Bundle (Cisco C4500E-S7L-S8).....	13,220.98	184.58
27 21 26 00-0014	EA		Catalyst 4500 E-Series Redundant Supervisor 8-E (Cisco WS-X45-SUP8-E/2).....	28,336.10	184.58
27 21 26 00-0015	EA		Catalyst 4500 2GB SD Memory Card (Cisco SD-X45-2GB-E).....	665.15	15.41
27 21 26 00-0016	EA		Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV).....	4,864.16	19.22
27 21 26 00-0017	EA		Catalyst 4500 4200W AC Dual Input Power Supply (Data + PoE) (Cisco PWR-C45-4200ACV/2).....	4,219.17	19.22
27 21 26 00-0018	EA		13', NEMA 6-20 To IEC-C19 Power Cable (Cisco CAB-US620P-C19-US).....	78.28	7.70
27 21 26 00-0019	EA		1000BASE-SX SFP Transceiver Module, MMF, 850nm, DOM (Cisco GLC-SX-MMD-).....	271.70	76.91
27 21 26 00-0020	EA		Cisco Catalyst 3850 24 Port Data IP Base (Cisco WS-C3850-24TS).....	3,985.12	184.58
27 21 26 00-0021	EA		SMARTnet Extended Service Agreement, 8X5XNBD Cisco Catalyst 3850 24 Port Data IP Base (Cisco CON-SNT-WSC384TS).....	785.83	
27 21 26 00-0022	EA		North America AC Type A Power Cable (Cisco CAB-TA-NA).....	28.08	7.70
27 21 26 00-0023	EA		350 Watt AC Power Supply (Cisco PWR-C1-350WAC).....	335.51	19.22
27 21 26 00-0024	EA		Cisco Catalyst 3850 4x1GE Network Module (Cisco C3850-NM-4-1G).....	824.36	19.25
27 21 26 00-0025	EA		1' (30cm), Catalyst 3750X Stack Power Cable (Cisco CAB-SPWR-30CM).....	122.66	7.70
27 21 26 00-0026	EA		Rack Mount Switch 16 100 SFP 8 10/100 PoE 2 Geuplinks (Cisco IE-3010-16S-8PC).....	4,617.59	184.58
27 21 26 00-0027	EA		SMARTnet Extended Service Agreement, 8X5XNBD IA Rack Mount Switch 16 100 SFP 8 10/10 (Cisco CON-SNT-301016S8).....	788.98	
27 21 26 00-0028	EA		IE 3010 Power Supply (Cisco PWR-RGD-AC-DC/IA).....	706.43	19.22
27 21 26 00-0029	EA		IE 3010 AC-DC Redundant Power Supply (Cisco PWR-RGD-AC-DC/IA).....	717.43	19.22
27 21 26 00-0030	EA		4 Ethernet 10/100 Ports And 2 Dual-Purpose Uplinks, Industrial Ethernet Switch (Cisco IE-3000-4TC).....	1,630.21	184.58
27 21 26 00-0031	EA		Expansion Power Module For Cisco IE-3000-4TC (Cisco PWR-IE50W-AC-IEC).....	392.14	19.25
27 21 26 00-0032	EA		4 Port, Expansion SFP Module for IE-3000-4TC (Cisco IEM-3000-4SM).....	1,814.53	19.25
27 21 26 00-0033	EA		Router (CISCO IR829).....	1,647.14	77.01

**27 21 29 Data Communications Switches and Hubs** (27 21)

<b>27 21 29 00-0001</b>			<b>Data Communications Multimedia Modular Patch Panels</b> (27 21 29)		
Note: Unloaded multimedia patch panels that accept modular jacks for category 3, 5e, 6, fiber optic, etc. Excludes rack, modular jacks and terminations. See CSI section 27 15 43 00-0035 for modular jacks.					
27 21 29 00-0002	EA		12 Port, Wall Mount Multimedia Modular Patch Panel, Unloaded.....	143.70	7.69
27 21 29 00-0003	EA		16 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	158.59	7.69
27 21 29 00-0004	EA		24 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	187.40	7.69
27 21 29 00-0005	EA		36 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	196.25	7.69
27 21 29 00-0006	EA		48 Port, Rack Mount Multimedia Modular Patch Panel, Unloaded.....	214.66	9.62
27 21 29 00-0007	EA		24 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	203.58	7.69
27 21 29 00-0008	EA		48 Port, Rack Mount Multimedia Modular Angled Patch Panel, Unloaded.....	255.48	9.62
27 21 29 00-0009	EA		Rack Mount Rear Cable Management Bar.....	70.61	9.62

**27 21 33 Data Communications Wireless Access Points** (27 21)

<b>27 21 33 00-0001</b>			<b>Data Communications Wireless Access Points</b> (27 21 33)		
27 21 33 00-0002	EA		Base Station Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-BSU).....	5,052.95	230.73
27 21 33 00-0003	EA		Base Station Unit, 300 Mbps, MIMO 2x2, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1).....	12,011.80	230.73
27 21 33 00-0004	EA		Base Station Unit, 300 Mbps, MIMO 2x2, 16 dBi, 90 Degree Sector Antenna US PoE (Proxim Wireless MP-8250-BS9).....	12,011.80	230.73
27 21 33 00-0005	EA		Subscriber Unit, 300 Mbps, MIMO 2x2, Type-N Connectors US PoE (Proxim Wireless MP-8200-SUA).....	2,032.78	230.73
27 21 33 00-0006	EA		Subscriber Unit, 300 Mbps, MIMO 2x2, 23 dBi, Panel Antenna US PoE (Proxim Wireless MP-8250-SUR).....	2,369.65	253.02
27 21 33 00-0007	EA		Base Station Unit, 300 Mbps, MIMO 3x3, GPS Sync Ready, Type-N Connectors - US PoE (Proxim Wireless MP-8200-BSU-G).....	6,469.52	253.02
27 21 33 00-0008	EA		Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 23 dBi, 10° Panel Antenna - US PoE (Proxim Wireless MP-8250-BS1-G).....	9,783.29	253.02
27 21 33 00-0009	EA		Base Station Unit, 300 Mbps, MIMO 2x2, GPS Sync Ready, 16 dBi, 90° Sector Antenna - US PoE (Proxim Wireless MP-8250-BS9-G).....	9,783.29	253.02
27 21 33 00-0010	EA		50 Mbps (upgradable to 100 Mbps), MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-50).....	2,018.37	84.34
27 21 33 00-0011	EA		100 Mbps, MIMO 2x2, 15 dBi integrated antenna - US PoE (Proxim Wireless QB-825-LNK-100).....	2,046.19	84.34
27 21 33 00-0012	EA		Surge, Gigabit Surge Protector With Shielded RJ45 (Proxim Wireless ETH-SURGE-1G).....	202.65	42.17

<b>27</b>	<b>Communications</b>
<b>27 20</b>	<b>Data Communications</b>
<b>27 21</b>	<b>Data Communications Network Equipment</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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27 21 33 00-0013	EA		FlexPort uWave AdaptRate And Modulation Feature Upgrade (BridgeWave Communications FPUWAVE-UPG-ARM) .....	1,728.87	
27 21 33 00-0014	EA		1' High Performance Dish Antenna, Low Profile, 21.2-23.6 GHz, WR42 Flange, SOI (Radio Waves HPLP1-23RR).....	647.33	76.91
27 21 33 00-0015	EA		Cellular Phone / Wi-Fi Antenna (Sierra Wireless AP-CWG-Q-S222-WH).....	541.64	76.91
27 21 33 00-0016	EA		Cell LTE MIMO Antenna (Sierra Wireless 1810075).....	102.70	30.76
27 21 33 00-0017	EA		AirLink GX400 Power Adapter (Sierra Wireless 2700384).....	82.97	
27 21 33 00-0018	EA		AirLink GX400 Power Cable (Sierra Wireless 2000380).....	49.67	
27 21 33 00-0019	EA		Cellular/PCS/LTE, Hockey Puck Antenna (Sierra Wireless AP-C-Q-S2-BL) .....	358.04	76.91
27 21 33 00-0020	EA		Cellular/PCS/LTE/GPS, Multi-Band Antenna (Sierra Wireless AP-CG-Q-S22-BL).....	360.09	76.91
27 21 33 00-0021	EA		2 Way, RF Power Divider, 790-920 MHZ (Telewave ANTPD28D) .....	480.61	77.01
27 21 33 00-0022	EA		Wireless Cellular Modem (Sierra Wireless AirLink GX400 EVDO/GPS).....	1,183.81	115.51
27 21 33 00-0023	EA		Wireless Cellular Modem (Sierra Wireless AirLink GX450 Rugged) .....	1,501.93	115.51
27 21 33 00-0024	EA		Magnetic Mount Cellular Antenna (Wilson Electronics 301125) .....	90.71	23.07
27 21 33 00-0025	EA		Yagi Antenna, 890-960 MHz, 10 dBd Gain (PCTEL Bluewave Antennas BGYD890K).....	339.15	84.34
27 21 33 00-0026	EA		Andrew® Omni Antenna, 890-960 MHz, 360° Horizontal Beamwidth, Fixed Electrical Tilt, Fits On 38-51 mm (1-1/2 to 2 in) OD Pipe (Commscope DB583-Y) .....	1,043.88	84.34
27 21 33 00-0027	EA		Single Channel Bluetooth Sensor With Bluetooth Module And Antenna (DeepBlue SC) .....	5,018.43	77.01
27 21 33 00-0028	EA		Point-to-Point Wireless Bridge (Proxim Tsunami® QB-10150).....	2,563.35	76.91

## 27 30 Voice Communications <sup>(27)</sup>

### 27 31 Voice Communications Switching and Routing Equipment <sup>(27 30)</sup>

Note: Includes testing of new devices and certification.

#### 27 31 13 PBX/Key Systems <sup>(27 31)</sup>

##### 27 31 13 00-0001 Interior PBX Telephone System <sup>(27 31 13)</sup>

Note: Includes telephone instruments cabling and solid state switching.

##### 27 31 13 00-0002 Interior PBX Telephone System <sup>(27 31 13 00-0001)</sup>

Note: Cost is for each line up to 1000 lines.

27 31 13 00-0003	EA		1 Line PBX Connection, Cost Per Each Line Up To 1,000 .....	2,177.03	801.99
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##### 27 31 13 00-0004 Additional Telephones Less Solid State Switching (PBX) <sup>(27 31 13 00-0001)</sup>

27 31 13 00-0005	EA		Add For Each Additional PBX Phone Line Less Solid State Switching.....	674.69	63.07
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##### 27 31 13 00-0006 Telephones <sup>(27 31 13 00-0001)</sup>

27 31 13 00-0007	EA		Telephones, Desk Type Intercommunication Equipment.....	275.43	59.99
27 31 13 00-0008	EA		Telephones, Wall Type Intercommunication Equipment.....	315.86	79.99

### 27 32 Voice Communications Terminal Equipment <sup>(27 30)</sup>

Note: Includes testing of new devices and certification.

#### 27 32 13 Telephone Sets <sup>(27 32)</sup>

##### 27 32 13 00-0001 Interior Telephone Components <sup>(27 32 13)</sup>

27 32 13 00-0002	EA		Solid State Exchange Unit With Power Supply .....	8,126.87	1,405.62
27 32 13 00-0003	EA		Dial Telephone - Handset In Cabinet.....	959.19	114.90
27 32 13 00-0004	EA		Elevator Cab Telephone With Trailer Cable.....	506.46	123.21
27 32 13 00-0005	EA		Loud Ring Bell, 6" .....	402.65	114.29
27 32 13 00-0006	EA		Audio/Visual Indicator.....	501.74	107.68
27 32 13 00-0007	EA		Administrative Telephone With Digital Display.....	517.98	96.60
27 32 13 00-0008	EA		Processing Unit For 16 Station System .....	2,658.99	788.02
27 32 13 00-0009	EA		Handset For 16 Station System .....	368.30	78.45
27 32 13 00-0010	EA		Handset In Cabinet, For 16 Station System.....	498.76	105.82
27 32 13 00-0011	MLF		20 Conductor Unshielded Cable, #22 .....	3,628.06	1,696.19
27 32 13 00-0012	EA		Power Supply For 16 Station System .....	496.17	209.36
27 32 13 00-0013	EA		Intercom Terminal Board .....	453.63	235.65
27 32 13 00-0014	EA		Power Supply For Five Station System, 24 Volt DC .....	513.30	209.36
27 32 13 00-0015	EA		Telephone Communication Board, Insulated Blueboard 24" x 24" x 1/2" Thick .....	245.56	86.01
27 32 13 00-0016	EA		Telephone Cabinet With Backboard 24" High x 24" Wide x 6" Deep .....	744.26	189.32
27 32 13 00-0017	EA		Telephone Cabinet With Backboard 30" High x 24" Wide x 6" Deep .....	876.43	215.18
27 32 13 00-0018	EA		Telephone Cabinet With Backboard 30" High x 30" Wide x 6" Deep .....	1,061.11	254.68
27 32 13 00-0019	EA		Telephone Cabinet With Backboard 36" High x 30" Wide x 6" Deep.....	1,244.84	275.34
27 32 13 00-0020	EA		Telephone Cabinet With Backboard 48" High x 30" Wide x 6" Deep .....	1,906.78	313.29
27 32 13 00-0021	EA		Ring Rung 3" .....	16.13	8.58
27 32 13 00-0022	EA		G66B50 Telephone Blocks Including 50 Terminators, Exterior Ring, Marking, ID .....	39.52	15.23
27 32 13 00-0023	EA		G110 Data Blocks Including Terminator, Exterior Ring, Marking, ID And Testing .....	73.07	31.22

##### 27 32 13 00-0024 Interior Telephone Accessories <sup>(27 32 13)</sup>

27 32 13 00-0025	EA		Blank Telephone Receptacle, Exposed Devices - Complete .....	17.05	8.30
27 32 13 00-0026	EA		4-Pin Telephone Receptacle, Exposed Devices - Complete.....	36.18	32.00
27 32 13 00-0027	EA		Dual Flush Mounted, Level 5, RJ-45 Jack, Complete .....	87.41	35.14
27 32 13 00-0028	EA		Wall Mount, Level 5, RJ-45 Jack, Complete .....	83.60	35.14
27 32 13 00-0029	EA		Terminating Strips, Inside .....	169.12	70.27
27 32 13 00-0030	EA		Dual Outlet, 4-Pin Telephone Receptacle, Concealed Type RJ-45 - Complete.....	76.70	36.14





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 32 13 00-0031 EA Ready Access Closure 3 To 25 Pair.....	204.28	84.76
27 32 13 00-0032 EA Ready Access Closure 25 To 100 Pair.....	236.93	94.76
27 32 13 00-0033 EA Termination Block With Bracket 25 Pair.....	75.65	28.46
27 32 13 00-0034 EA RJ-11 Telephone Receptacle, Concealed Devices - Complete.....	75.34	35.68
27 32 13 00-0035 EA Interior Protected Terminal 25 Pair.....	807.60	205.51
27 32 13 00-0036 EA Interior Protected Terminal 50 Pair.....	941.55	208.73
27 32 13 00-0037 EA Pedestal 6" x 6" x 50" 3 To 100 Pair.....	323.20	85.53
27 32 13 00-0038 EA Pedestal 8" x 8" x 50" 100 To 300 Pair.....	332.35	85.53
27 32 13 00-0039 EA Pedestal 10" x 10" x 43" 300 To 600 Pair.....	437.29	109.37
27 32 13 00-0040 EA Pedestal 10" x 16" x 439 600 Pair.....	893.94	197.04
27 32 13 00-0041 EA Entrance Protector Terminal 100 Pair.....	1,215.31	224.88
27 32 13 00-0042 EA Gas Protection Module.....	20.71	7.69
27 32 13 00-0043 EA Terminating Boxes, Outside With 3 Element Protectors, Per Pair.....	33.11	7.02

**27 32 26 Ring-Down Emergency Telephones (27 32)**

**27 32 26 00-0001**

**Emergency Telephone (27 32 26)**

Note: Includes CB3000 speakerphone, 3 auxiliary inputs, 2 auxiliary outputs, phone line surge suppressor, analog telephone connection, 70 watt area light with blue beacon, high power strobe, lighted faceplate, 110VAC power, ultra weather resistant finish, vandal resistant hardware, UV resistant lens, dome vent; flat area for directory, access control or other options; 12.75" diameter/8'-6" height, 1/4" thick steel construction, foundation anchor kit, ADA compliant.

27 32 26 00-0002 EA Code Blue 1-Standard Emergency Telephone Pedestal Unit (CB 1-s).....	12,063.14	628.87
Note: Includes IA4100 FP1 analog speakerphone with single red 'Push For Help' button, 'Push For Help' bezel, hard wire phone line, passive vent at top, 24V AC, and standard color.		
27 32 26 00-0003 EA Code Blue 1-Dual Emergency Telephone Pedestal Unit (CB 1-d).....	12,658.38	628.87
Note: Includes IA4100 FP1 analog speakerphone with single red 'Push For Help' button, 'Push For Help' bezel, blank stainless steel plate second opening, hard wire phone line, passive vent at top, 24V AC, and standard color.		
27 32 26 00-0004 EA Analog Speakerphone With Black Info Button And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2).....	198.42	
27 32 26 00-0005 EA Analog Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IA4100 FP2-K).....	297.62	
27 32 26 00-0006 EA IP Speakerphone With Single Red Push For Help Button Code Blue Option (Code Blue IP5000 FP1).....	744.06	
27 32 26 00-0007 EA IP Speakerphone With Back Info Button And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2).....	1,011.92	
27 32 26 00-0008 EA IP Speakerphone With Black Call Button, Keypad And Red Push For Help Button Code Blue Option (Code Blue IP5000 FP2-K).....	1,111.13	
27 32 26 00-0009 EA EMERGENCY (Raised Letters With Braille) Main Bezel Code Blue Option.....	19.84	
27 32 26 00-0010 EA EMERGENCY/EMERGENCIA (Raised Letters With Braille) Main Bezel Code Blue Option.....	19.84	
27 32 26 00-0011 EA Directory, Second Opening Code Blue Option.....	178.57	
27 32 26 00-0012 EA Camera Enclosure With Color IP Camera, Second Opening Code Blue Option.....	1,884.95	
27 32 26 00-0013 EA HID Card Reader, Second Opening Code Blue Option.....	873.03	
27 32 26 00-0014 EA HID Card Reader And Color IP Camera, Second Opening Code Blue Option.....	2,827.42	
27 32 26 00-0015 EA IP Wireless Communication Code Blue Option.....	5,942.54	
Note: 802.11g or secure mesh 5.8. (system UPS backup or unit Night Charge recommended). IP5000 VoIP Speakerphone option must be ordered when selecting IP Wireless Communications. Requires Base Unit(s) and site survey.		
27 32 26 00-0016 EA Active Venting Code Blue Option.....	317.46	
27 32 26 00-0017 EA Night Charge Power Code Blue Option.....	2,767.90	
Note: Requires 120V AC external power supplied to Code Blue unit.		
27 32 26 00-0018 EA Power Transformer Kit, Alternate Incoming Power Code Blue Option.....	694.45	
27 32 26 00-0019 EA Overhead Camera Mount Code Blue Option.....	1,577.40	
Note: Excludes camera.		
27 32 26 00-0020 EA Custom Color For Overhead Camera Mount Code Blue Option.....	69.45	

**27 32 26 00-0021 City Police Call System (27 32 26)**

**27 32 26 00-0022 Components (27 32 26 00-0021)**

27 32 26 00-0023 EA City Police Call System.....	950.09	179.35
27 32 26 00-0024 EA Concrete Foundation For Police Department Telephone Post.....	878.93	259.80

**27 40 Audio-Video Communications (27)**

**27 41 Audio-Video Systems (27 40)**

**27 41 16 Integrated Audio-Video Systems and Equipment (27 41)**

Note: Includes testing of new devices and certification.

**27 41 16 00-0001 Television Distribution System (27 41 16)**  
See CSI section 26 05 13 16-0001 for basic wiring, 26 05 19 16-0309 for basic wiring.

**27 41 16 00-0002 Mounted Television Support (27 41 16 00-0001)**

27 41 16 00-0003 EA Ceiling Mounted Television Support, 19" To 20".....	560.16	172.50
27 41 16 00-0004 EA Ceiling Mounted Television Support, 19" To 20" With Rack.....	712.44	192.52
27 41 16 00-0005 EA Ceiling Mounted Television Support, 25" To 27".....	582.19	172.50
27 41 16 00-0006 EA Ceiling Mounted Television Support, 25" To 27" With Rack.....	734.47	192.52
27 41 16 00-0007 EA Wall Mounted Television Support, 13".....	442.97	138.62
27 41 16 00-0008 EA Wall Mounted Television Support, 13" With Rack.....	595.22	154.02
27 41 16 00-0009 EA Wall Mounted Television Support, 19" To 20".....	471.87	138.62
27 41 16 00-0010 EA Wall Mounted Television Support, 19" To 20" With Rack.....	624.13	154.02

<b>27</b>	<b>27 Communications</b>
<b>27 40</b>	<b>Audio-Video Communications</b>
<b>27 41</b>	<b>Audio-Video Systems</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 41 16 00-0011 EA Wall Mounted Television Support, 25" To 27".....	500.78	138.62
27 41 16 00-0012 EA Wall Mounted Television Support, 25" To 27" With Rack .....	653.03	154.02
<b>27 41 16 00-0013 Distribution System (27 41 16 00-0001)</b> See CSI section 26 05 13 16-0001 for wire and cabling.		
<b>27 41 16 00-0014 TV Distribution Rack (27 41 16 00-0013)</b>		
27 41 16 00-0015 EA Steel Rack Cabinet With Shelves .....	1,834.05	282.87
27 41 16 00-0016 EA Switch And Pilot Light.....	308.15	125.67
27 41 16 00-0017 LF Surface Raceway With Outlets .....	37.46	17.07
27 41 16 00-0018 EA Service Label .....	45.34	23.53
<b>27 41 16 00-0019 Head End Amplifier (27 41 16 00-0013)</b>		
27 41 16 00-0020 EA Head End Amplifier.....	1,223.53	188.28
<b>27 41 16 00-0021 UHF In-Line Booster Amplifier And Power Supply (27 41 16 00-0013)</b>		
27 41 16 00-0022 EA UHF In-Line Booster .....	736.44	188.28
<b>27 41 16 00-0023 Preamplifiers (27 41 16 00-0013)</b>		
27 41 16 00-0024 EA VHF Preamplifier .....	907.95	188.28
27 41 16 00-0025 EA UHF Preamplifier .....	736.44	188.28
<b>27 41 16 00-0026 Power Supplies (27 41 16 00-0013)</b>		
27 41 16 00-0027 EA Common Power Supply .....	1,297.07	269.03
<b>27 41 16 00-0028 Line Splitter And Mixer (27 41 16 00-0013)</b>		
27 41 16 00-0029 EA Line Splitter.....	123.19	62.76
27 41 16 00-0030 EA Two-Way Splitter .....	136.85	62.76
27 41 16 00-0031 EA Frequency Filter.....	291.12	94.29
27 41 16 00-0032 EA Line Splitter And Mixer.....	375.16	138.44
<b>27 41 16 00-0033 Power Line Filters (27 41 16 00-0013)</b>		
27 41 16 00-0034 EA 120-Volt Power Supply Line Filter.....	548.26	125.67
<b>27 41 16 00-0035 Wall Box And Receiver Outlets (27 41 16 00-0013)</b>		
27 41 16 00-0036 EA Wall Box With Lockable Cover, Excluding Outlet Plug.....	291.12	94.29
27 41 16 00-0037 EA TV Receiver Outlet Plug .....	136.85	62.76
27 41 16 00-0038 EA TV Camera Outlet Plug.....	136.85	62.76
27 41 16 00-0039 EA Audio Outlet Plug.....	119.74	62.76
27 41 16 00-0040 EA 12 Ft RG 6U Cable With G-59 And TV Set Fittings.....	248.11	125.67
27 41 16 00-0041 EA Male Plug PL-259 .....	136.85	62.76
27 41 16 00-0042 EA Wall Box And Receiver Outlet Television Outlets .....	165.78	65.83
<b>27 41 33 Master Antenna Television Systems (27 41)</b>		
<b>27 41 33 00-0001 Antenna Systems (27 41 33)</b>		
<b>27 41 33 00-0002 Antenna (27 41 33 00-0001)</b>		
27 41 33 00-0003 EA Amateur Radio Antenna.....	1,160.38	230.73
27 41 33 00-0004 EA Multi-Band Radio Antenna.....	914.68	230.73
<b>27 41 33 00-0005 Receptacles (27 41 33 00-0001)</b>		
27 41 33 00-0006 EA Amateur Radio Antenna System Receptacle With Mating Plugs And Adapter.....	273.99	94.29
27 41 33 00-0007 EA Multi-Band Radio Antenna System Receptacle With Mating Plugs .....	273.99	94.29
<b>27 50 Distributed Communications and Monitoring Systems (27)</b>		
<b>27 51 Distributed Audio-Video Communications Systems (27 50)</b>		
<b>27 51 17 Video Intercom and Exterior Gate Control System (27 51)</b>		
<b>27 51 17 00-0001 Video Intercom And Exterior Gate Control System (27 51 17)</b>		
27 51 17 00-0002 EA Audio Video Master Control Station With Handset, White Finish (Aiphone IX-MV7-HW) .....	1,592.70	192.52
27 51 17 00-0003 EA Audio Video Master Control Station (Aiphone AX-8MV) .....	1,296.28	192.52
27 51 17 00-0004 EA 16-call Add-on Selector For AX Masters (Aiphone AX-16SW).....	590.91	192.52
27 51 17 00-0005 EA Central Exchange Unit (Aiphone AX-084C).....	1,481.14	96.26
27 51 17 00-0006 EA Central Exchange Unit (Aiphone AX-248C).....	2,004.00	96.26
27 51 17 00-0007 EA Touch Tone Programmable Dialer (Viking K-1900-5).....	164.21	38.51
27 51 17 00-0008 EA Surface Mount Audio/Video Door Station (Aiphone IX-DV) .....	1,054.75	38.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 51 17 00-0009 EA Surface Or Flush Wall Mount Audio/Video Door Station (Aiphone IX-DVF) .....	1,443.85	38.51
27 51 17 00-0010 EA Surface Mount Audio/Video Door Station (Aiphone AX-DV) .....	479.10	38.51
27 51 17 00-0011 EA Flush Mount Audio/Video Door Station (Aiphone AX-DVF) .....	538.11	38.51
27 51 17 00-0012 EA 12 Volt, 2.5 Amperes, DC Power Supply (Aiphone PS-1225UL) .....	149.67	19.25
Note: UL Listed		
27 51 17 00-0013 EA 24 Volt, 2 Amperes, DC Power Supply (Aiphone PS-2420UL) .....	162.03	19.25
Note: UL Listed		
27 51 17 00-0014 EA IP Video Master Station (Aiphone IX-MV) .....	1,927.17	192.52
27 51 17 00-0015 EA Handset Only For IX-MV (Aiphone 285999) .....	66.43	7.70
27 51 17 00-0016 EA Hands Free Sub Master Video Monitor (Aiphone JF-2HD) .....	863.99	192.52
27 51 17 00-0017 EA Stainless Steel Video Door Station With HID ProxPoint Plus Reader, Flush Mount (Aiphone AX-DVF-P) .....	759.05	38.51
27 51 17 00-0018 EA Stainless Steel Surface Mount Box For IS-SS, IS-DVF, IS-IPDVF, IX-DF(SS) (Aiphone SBX-IDVF) .....	241.69	38.51
27 51 17 00-0019 EA Stainless Steel Surface Mount Box For AX-DVF (Aiphone SBX-AXDVF) .....	267.77	38.51
27 51 17 00-0020 EA Stainless Steel Security Lock Box For IS-DV, IS-DVF, IX-DF, IX-SS, IX-DF-HID, And IX-DF-RP10 (Aiphone LB-SDVFA) .....	332.34	57.76
27 51 17 00-0021 EA Front Case With Lens Cover For AX-DV And AX-DVF Cameras (Aiphone 240880) .....	76.68	19.25

### 27 51 43 Sound Reinforcement (27 51)

Note: Includes testing of new devices and certification.

#### 27 51 43 00-0001 Amplifiers (27 51 43)

27 51 43 00-0002 EA 10 Watt PA/Paging System Amplifier, 70 Volt (Bogen C10) .....	619.35	154.02
27 51 43 00-0003 EA 35 Watt PA/Paging System Amplifier, 70 Volt (Bogen C35) .....	852.71	154.02
27 51 43 00-0004 EA 60 Watt PA/Paging System Amplifier, 70 Volt (Bogen C60) .....	1,002.51	154.02
27 51 43 00-0005 EA 100 Watt PA/Paging System Amplifier, 70 Volt (Bogen 100) .....	1,109.38	154.02
27 51 43 00-0006 EA 150 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS150) .....	1,368.35	154.02
27 51 43 00-0007 EA 250 Watt PA/Paging System Amplifier, 70 Volt (Bogen GS250) .....	1,755.61	154.02
27 51 43 00-0008 EA Rack Mount Kit For PA/Paging System Amplifiers (Bogen GSRPK) .....	70.23	7.70

#### 27 51 43 00-0009 Splitters (27 51 43)

27 51 43 00-0010 EA 24 Watt, 5 Output, Isolated Splitter (Doug Fleenor 125EE) .....	3,432.20	115.36
27 51 43 00-0011 EA 1-in/11-out Splitter (Doug Fleenor DMX) .....	3,100.29	115.36

#### 27 51 43 00-0012 Speakers (27 51 43)

27 51 43 00-0013 EA 8", 5 Watt Recessed Ceiling Mounted Speaker With Transformer And Baffle (Atlas Sound FD72W) .....	258.18	41.22
27 51 43 00-0014 EA 8" Steel Baffle (Atlas Sound 51-8) .....	77.45	7.69
27 51 43 00-0015 EA T-Bar Support (Atlas Sound EZ95-8) .....	85.60	7.69
27 51 43 00-0016 EA 8" Cylindrical Enclosure With Undercoating (Atlas Sound Q408) .....	129.28	7.69
27 51 43 00-0017 EA Plate Mounted 10 Watt Attenuator With Priority Relay (Atlas Sound AT10-PA) .....	126.24	13.84

#### 27 51 43 00-0018 Accessories (27 51 43)

27 51 43 00-0019 EA Microphone And Stand For Audio/Video System (Bogen MBS-1000A) .....	334.85	19.25
27 51 43 00-0020 EA 5 Disk CD Player For Audio/Video System (Bogen DCM290-P) .....	743.38	19.25
27 51 43 00-0021 EA Weather Proof Horn For Audio/Video System (Bogen SPT5A) .....	201.00	38.51
27 51 43 00-0022 EA Trumpet Driver And Line Matching Transformer For Audio/Video System (Atlas PD-60A) .....	359.91	38.51
27 51 43 00-0023 EA Headset Microphone For Audio/Video System (Audio Technica Pro8Hex) .....	267.00	38.46
27 51 43 00-0024 EA Microphone Jack For Audio/Video System .....	131.35	38.51
27 51 43 00-0025 EA Terminal Cabinet For Audio/Video System (Atlas 121-18) .....	1,046.05	154.02
27 51 43 00-0026 EA Volume Control For Audio/Video System (Bogen AT10A) .....	126.21	38.51
27 51 43 00-0027 EA Round Bridge For 8" (S86/S810) Recessed Speakers (Bogen Communications TB8) .....	92.88	38.51

#### 27 51 43 00-0028 Removal And Reinstallation Of Speakers (27 51 43)

Note: Includes storage, cleaning and supply materials.

27 51 43 00-0029 EA Removal And Reinstallation Of Ceiling Mounted Speaker .....	215.35	
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## 27 52 Healthcare Communications and Monitoring Systems (27 50)

### 27 52 23 Nurse Call/Code Blue Systems (27 52)

#### 27 52 23 00-0001 Wireless Equipment Nurses Call Systems (27 52 23)

Note: Includes all mounting hardware, batteries, cable and connections. Teletronic.

#### 27 52 23 00-0002 Wireless Nurses Call System (27 52 23 00-0001)

27 52 23 00-0003 EA NurseCall Main Unit (Rechargeable Battery Included); NCM2 .....	8,815.33	
27 52 23 00-0004 EA NurseCall Main Unit (Rechargeable Battery Included) 300+ Transmitters; NCM2S .....	9,855.48	
27 52 23 00-0005 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 1-5 Units; NCL2 .....	6,190.50	
27 52 23 00-0006 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 6-10 Units; NCL2 .....	5,031.63	
27 52 23 00-0007 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 11-15 Units; NCL2 .....	4,530.42	
27 52 23 00-0008 EA NurseCall Local Unit (Rechargeable Battery Included), Quantity 16+ Units; NCL2 .....	4,029.04	
27 52 23 00-0009 EA Resident Bed Station With Relay; N45 .....	1,033.04	
27 52 23 00-0010 EA Bed Push Button For Use With N45 (9'); RB13-9 .....	504.38	
27 52 23 00-0011 EA Pull Cord Replacement For S35; S35PC .....	36.31	
27 52 23 00-0012 EA Wall Mount Pull-Cord Transmitter/Mounting Hardware - Auto Supervision; S35S .....	737.18	
27 52 23 00-0013 EA Wall Mount Pull-Cord Transmitter/Mounting Hardware - Assist Tone; S35A .....	737.18	
27 52 23 00-0014 EA Remote Reset Button; S35R .....	716.26	
27 52 23 00-0015 EA Waterproof Wrist Transmitter (Automatic Supervision); S37 .....	501.39	

<b>27</b>	<b>Communications</b>
<b>27 50</b>	<b>Distributed Communications and Monitoring Systems</b>
<b>27 52</b>	<b>Healthcare Communications and Monitoring Systems</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 52 23 00-0016 EA Wrist Band Replacement For S37; S37WB .....	45.27	
27 52 23 00-0017 EA Locate 1 Waterproof Wrist Transceiver; S37L .....	611.96	
27 52 23 00-0018 EA Locate 1 Beacon; IS75 .....	1,946.19	
27 52 23 00-0019 EA Wireless Smoke Detector Transmitter; SD35 .....	1,252.24	
27 52 23 00-0020 EA Wireless Door Contact Transmitter; RAC35 .....	980.28	
27 52 23 00-0021 EA Wireless Time Controlled Door Contact; RAC45 .....	980.28	
27 52 23 00-0022 EA Local Receiver With Relay (110 Volt AC); LE9 .....	1,207.41	
27 52 23 00-0023 EA Voice Response Unit (Rechargeable Battery Included); S10 .....	2,061.22	
27 52 23 00-0024 EA Alarm Receiving Unit (Rechargeable Battery Included); ARU .....	4,078.45	
27 52 23 00-0025 EA NurseCall Programming Software; NPS .....	11,224.66	
27 52 23 00-0026 EA NurseCall Printer Interface; NCPI .....	3,825.20	
27 52 23 00-0027 EA NurseCall Computer Center (Includes NurseCall Software, PC, Monitor, Printer And UPS); NCCN .....	19,712.00	
27 52 23 00-0028 EA 9V NiMH Rechargeable Battery (Replacement For S10, NCM2, And NCL2); NMH9R .....	91.82	
27 52 23 00-0029 EA 6V Lithium Battery (Replacement For S35 And RAC35); LIT6 .....	82.85	
27 52 23 00-0030 EA 9V Alkaline Battery (Replacement For N45); ALK9 .....	41.01	
27 52 23 00-0031 EA Giant LED Single Sided Display; NCGD .....	19,404.26	
27 52 23 00-0032 EA Serial Printer; NCSP .....	2,025.05	
27 52 23 00-0033 EA Modular Duplex T-Adapter (Replacement For S10); SE-486A .....	42.29	
27 52 23 00-0034 EA AC Adapter (Replacement For S10); STA-4110A .....	78.15	
27 52 23 00-0035 EA S10 Phone Cord (Replacement For S10); STC .....	42.29	
27 52 23 00-0036 EA Waveware Paging System, Use With NCCN (Dell Computer); SPS-5 .....	8,678.45	
27 52 23 00-0037 EA Waveware Pagers; DAP-040 .....	1,221.53	
<b>27 52 23 00-0038 Wireless Nurses Call Tele/Management System (27 52 23 00-0001)</b>		
27 52 23 00-0039 EA Tele/Management Unit; TP12 .....	4,974.99	
27 52 23 00-0040 EA Tele/Management Software; TP12S .....	4,602.12	
<b>27 52 23 00-0041 Wireless Nurses Call Paging System (27 52 23 00-0001)</b>		
27 52 23 00-0042 EA Standard Paging System (2.5 Watt Transmitter); RPE673 .....	14,342.64	
27 52 23 00-0043 EA Removal And Replacement Of Antenna For RPE673; RPE673AN .....	1,002.50	
27 52 23 00-0044 EA Removal And Replacement Of Power For RPE673; RPE673PS .....	1,343.19	
27 52 23 00-0045 EA Alphanumeric Pager; RPR583 .....	1,639.05	
27 52 23 00-0046 EA Removal And Replacement Of Holster For RPR583; RPR583H .....	93.51	
<b>27 52 23 00-0047 Equipment Nurses Call Systems (27 52 23)</b>		
27 52 23 00-0048 EA Nurses Call System, Page/Talk Relay Intercommunication Equipment .....	325.24	79.99
27 52 23 00-0049 EA Nurses Call System, Main Equipment Panel Intercommunication Equipment .....	3,314.12	319.95
27 52 23 00-0050 EA Nurses Call System, Re-Entrant Horn Intercommunication Equipment .....	349.44	104.60
27 52 23 00-0051 EA Nurses Call System, Nurses Control Station Intercommunication Equipment .....	1,743.38	307.65
27 52 23 00-0052 EA Nurses Call System, Duty Station Intercommunication Equipment .....	857.58	239.96
27 52 23 00-0053 EA Nurses Call System, Staff Station Intercommunication Equipment .....	435.17	79.99
27 52 23 00-0054 EA Nurses Call System, Single Bedside Station Intercommunication Equipment .....	413.45	79.99
27 52 23 00-0055 EA Nurses Call System, Double Bedside Station Intercommunication Equipment .....	637.40	139.97
27 52 23 00-0056 EA Nurses Call System, Emergency Call Button Intercommunication Equipment .....	196.42	61.53
27 52 23 00-0057 EA Nurses Call System, Pull Cord Button Intercommunication Equipment .....	182.43	61.53
27 52 23 00-0058 EA Nurses Call System, Single Dome Light Intercommunication Equipment .....	130.82	39.99
27 52 23 00-0059 EA Nurses Call System, Double Dome Light Intercommunication Equipment .....	190.45	61.53
27 52 23 00-0060 EA Nurses Call System, Pillow Speaker Intercommunication Equipment .....	275.13	39.99
27 52 23 00-0061 EA Nurses Call System, Cord Set Intercommunication Equipment .....	141.35	39.99
27 52 23 00-0062 EA Nurse Call System, Master-20 Station .....	6,885.33	307.65
27 52 23 00-0063 EA Dukane Duty Station - Tone Only, PC1000 .....	1,148.56	240.12
<b>27 53 Distributed Systems (27 50)</b>		
<b>27 53 13 Clock Systems (27 53)</b>		
<b>27 53 13 16 Wired Clock Systems (27 53 13)</b>		
<b>27 53 13 16-0001 Wired Self-Corrective Clock Systems (27 53 13 16)</b>		
<b>27 53 13 16-0002 Wired Self-Corrective Clocks (27 53 13 16-0001)</b>		
<b>27 53 13 16-0003 Analog, Wired Self-Corrective Clocks (Telecor) (27 53 13 16-0002)</b>		
<b>27 53 13 16-0004 24 Volt AC, Analog, Wired Self-Corrective Clocks (27 53 13 16-0003)</b>		
27 53 13 16-0005 EA 12", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount .....	297.97	38.46
For >50 To 100, Deduct	-20.36	
For >100, Deduct	-29.20	
27 53 13 16-0006 EA 12", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount .....	692.52	38.46
For >50 To 100, Deduct	-36.14	
For >100, Deduct	-60.77	
27 53 13 16-0007 EA 16", Single Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount .....	370.72	38.46
For >50 To 100, Deduct	-26.21	
For >100, Deduct	-37.96	
27 53 13 16-0008 EA 16", Dual Sided, 24 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount .....	910.78	38.46
For >50 To 100, Deduct	-94.90	
For >100, Deduct	-128.26	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>27 53 13 16-0009</b> <b>120 Volt AC, Analog, Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0003)</small>		
27 53 13 16-0010    EA    12", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount .....	297.97	38.46
For >50 To 100, Deduct	-20.36	
For >100, Deduct	-29.20	
27 53 13 16-0011    EA    12", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	692.52	38.46
For >50 To 100, Deduct	-36.14	
For >100, Deduct	-60.77	
27 53 13 16-0012    EA    16", Single Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Semi-Flush Mount .....	370.72	38.46
For >50 To 100, Deduct	-26.21	
For >100, Deduct	-37.96	
27 53 13 16-0013    EA    16", Dual Sided, 120 Volt AC, Analog, Wired Self-Corrective Clock, Surface Mount.....	910.78	38.46
For >50 To 100, Deduct	-94.90	
For >100, Deduct	-128.26	
<b>27 53 13 16-0014</b> <b>Accessories For Analog Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0003)</small>		
27 53 13 16-0015    EA    Wire Guards For 12", 15" Or 16" Analog Wired Self-Corrective Clocks .....	241.33	19.22
27 53 13 16-0016    EA    Back Box For 10", 12" Or 15" Flush Mount Analog Wired Self-Corrective Clocks .....	66.44	19.22
27 53 13 16-0017    EA    Surface Mounting Rings For 12" Analog Wired Self-Corrective Clocks .....	82.54	19.22
27 53 13 16-0018    EA    Surface Mounting Rings For 15" Analog Wired Self-Corrective Clocks .....	99.33	19.22
27 53 13 16-0019    EA    Combination Back Box For Speaker And Clock .....	170.33	30.76
<b>27 53 13 16-0020</b> <b>Digital, Wired Self-Corrective Clocks (Telecor)</b> <small>(27 53 13 16-0002)</small>		
<b>27 53 13 16-0021</b> <b>24 Volt AC, Digital, Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0020)</small>		
27 53 13 16-0022    EA    2.5", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	365.13	38.46
For Surface Mount, Add	57.64	
For >50 To 100, Deduct	-17.29	
For >100, Deduct	-28.82	
27 53 13 16-0023    EA    4", 24 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	555.41	38.46
For Surface Mount, Add	95.70	
For >50 To 100, Deduct	-28.71	
For >100, Deduct	-47.85	
<b>27 53 13 16-0024</b> <b>120 Volt AC, Digital, Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0020)</small>		
27 53 13 16-0025    EA    2.5", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	365.13	38.46
For Surface Mount, Add	57.64	
For >50 To 100, Deduct	-17.29	
For >100, Deduct	-28.82	
27 53 13 16-0026    EA    4", 120 Volt AC, Digital, Wired Self-Corrective Clock, Flush Mount.....	555.41	38.46
For Surface Mount, Add	95.70	
For >50 To 100, Deduct	-28.71	
For >100, Deduct	-47.85	
<b>27 53 13 16-0027</b> <b>Replacement Modules For 24 Volt AC, Digital, Wired Self-Corrective Clocks</b>		
<small>(27 53 13 16-0020)</small>		
27 53 13 16-0028    EA    2.5", Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	314.07	38.46
For >50 To 100, Deduct	-14.23	
For >100, Deduct	-23.72	
27 53 13 16-0029    EA    4" Replacement Module For 24 Volt AC, Digital, Wired Self-Corrective Clocks.....	509.24	38.46
For >50 To 100, Deduct	-25.94	
For >100, Deduct	-43.23	
<b>27 53 13 16-0030</b> <b>Replacement Modules For 120 Volt AC, Digital, Wired Self-Corrective Clocks</b>		
<small>(27 53 13 16-0020)</small>		
27 53 13 16-0031    EA    2.5", Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	314.07	38.46
For >50 To 100, Deduct	-14.23	
For >100, Deduct	-23.72	
27 53 13 16-0032    EA    4" Replacement Module For 120 Volt AC, Digital, Wired Self-Corrective Clocks.....	509.24	38.46
For >50 To 100, Deduct	-25.94	
For >100, Deduct	-43.23	
<b>27 53 13 16-0033</b> <b>Accessories For Digital Wired Self-Corrective Clocks</b> <small>(27 53 13 16-0020)</small>		
27 53 13 16-0034    EA    Wire Guard For 4" Surface Mount Analog Wired Self-Corrective Clocks.....	326.68	19.22
27 53 13 16-0035    EA    2.5", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	83.23	19.22
27 53 13 16-0036    EA    4", Recessed Back Box For Flush Mount Digital Wired Self-Corrective Clocks.....	112.61	19.22
27 53 13 16-0037    EA    Dual Mounting Kit For Surface Mount Digital Wired Self-Corrective Clocks .....	286.10	19.22
27 53 13 16-0038    EA    4 Gang Extension Ring For Surface Mount Digital Wired Self-Corrective Clocks.....	85.34	19.22
<b>27 53 13 16-0039</b> <b>Wired Self-Corrective Master Clocks</b> <small>(27 53 13 16-0001)</small>		
<b>27 53 13 16-0040</b> <b>Wired Self-Corrective Master Clocks</b> <small>(27 53 13 16-0039)</small>		
27 53 13 16-0041    EA    24 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-24).....	3,407.92	307.65
27 53 13 16-0042    EA    120 Volt AC, Wired Self-Corrective Master Clock, Surface Mount (Telecor 2400-S-120).....	3,617.79	307.65

**27 Communications****27 50 Distributed Communications and Monitoring Systems****27 53 Distributed Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
27 53 13 16-0043			<b>Accessories For Wired Self-Corrective Master Clocks</b> <small>(27 53 13 16-0039)</small>		
27 53 13 16-0044	EA		5 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2405).....	365.80	76.91
27 53 13 16-0045	EA		10 Amperes Power Transformer For 24 Volt AC, Wired Self-Corrective Clock Systems (Telecor 2406).....	409.86	76.91
27 53 13 16-0046			<b>Other Clock And Program Systems</b> <small>(27 53 13 16)</small>		
27 53 13 16-0047	EA		4 Circuit Master Clock And Signal Control (Lathem LTR4-512).....	2,038.79	153.82
27 53 13 16-0048	EA		8 Circuit Master Clock And Signal Control (Lathem LTR8-512).....	2,510.56	307.65
27 53 13 16-0049	EA		Program Bell (Lathem 906-6).....	320.52	76.91
27 53 13 16-0050	EA		Combination Clock And Speaker .....	734.27	192.28

**END OF SECTION 27**



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 28 Electronic Safety and Security

Note: Termination costs are included with all safety and security equipment, panel boards, and devices. Terminations are not included with patch panels.

### 28 05 Common Work Results for Electronic Safety and Security <sup>(28)</sup>

#### 28 05 26 Grounding and Bonding for Electronic Safety and Security <sup>(28 05)</sup>

See CSI section 26 05 26 00-0000 for grounding and bonding.

#### 28 05 53 Identification for Electronic Safety and Security <sup>(28 05)</sup>

See CSI section 26 05 53 00-0000 for identification.

### 28 10 Access Control <sup>(28)</sup>

Note: Includes testing of new devices and certification.

#### 28 15 Integrated Access Control Hardware Devices <sup>(28 10)</sup>

##### 28 15 11 Integrated Credential Readers and Field Entry Management <sup>(28 15)</sup>

##### 28 15 11 13 Keypads <sup>(28 15 11)</sup>

##### 28 15 11 13-0001 Vindicator Security Alarm System <sup>(28 15 11 13)</sup>

	EA	Switch, Balanced Magnetic Door (Security) Vindicator #192-30894-00.....	1,858.02	
	EA	Detector, Passive Infrared (Security) Vindicator #316-30812-00.....	2,345.29	320.72
	EA	Premise Control Unit (Security) Vindicator #548-32004-01.....	12,010.26	416.86
	EA	Access Manager (Security Key Pad) Vindicator #548-31894-01.....	5,654.30	913.70
	EA	ALS Duress Switch (Security) Vindicator #192-30810-00.....	1,529.44	778.65
				425.93

#### 28 16 Access Control Interfaces <sup>(28 10)</sup>

##### 28 16 11 Access Control Interfaces to Access Control Hardware <sup>(28 16)</sup>

##### 28 16 11 00-0001 Stand Alone Access Controls <sup>(28 16 11)</sup>

##### 28 16 11 00-0002 Push Button Controls, Stand Alone Access Controls <sup>(28 16 11 00-0001)</sup>

##### 28 16 11 00-0003 Interior Mount, Push Button Controls, Stand Alone Access Controls <sup>(28 16 11 00-0002)</sup>

	EA	Exit Push Button, Push Button Controls, Interior Stand Alone Access Controls.....	159.34	38.46
		Note: Controls mount to a standard mullion.		
	EA	Exit Push Button, Push Button Controls, Interior Stand Alone Access Controls.....	166.20	38.46
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		
	EA	Three Button, Push Button Controls, Interior Stand Alone Access Controls For Gate Operators.....	205.70	38.46
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		

##### 28 16 11 00-0007 Exterior Mount, Push Button Controls, Stand Alone Access Controls <sup>(28 16 11 00-0002)</sup>

	EA	Handicap/Push To Open, Push Button Controls, Exterior Stand Alone Access Controls.....	195.97	38.46
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		
	EA	42" High Aluminum Post With Handicap/Push To Open, Push Button Controls, Exterior Stand Alone Access Controls.....	915.32	115.36
		Note: Includes post, mounting base and push button control. Excludes concrete foundation.		
	EA	Three Button, Exterior Stand Alone Access Controls For Gate Operators.....	308.73	38.46
		Note: Includes open, close and stop controls.		

##### 28 16 11 00-0011 Key Controls, Stand Alone Access Controls <sup>(28 16 11 00-0001)</sup>

##### 28 16 11 00-0012 Interior Mount, Key Controls, Stand Alone Access Controls <sup>(28 16 11 00-0011)</sup>

	EA	Standard Mortise Key, Key Controls, Interior Stand Alone Access Controls.....	218.58	38.46
		Note: Controls mount into a single gang electrical box. Excludes electrical box.		

##### 28 16 11 00-0014 Exterior Mount, Key Controls, Stand Alone Access Controls <sup>(28 16 11 00-0011)</sup>

	EA	Postal Or Fire Department Lock Box, Key Controls, Exterior Stand Alone Access Controls.....	342.71	76.91
		Note: Opens door or gate with a postal or fire department key.		
	EA	Standard Mortise Key, Key Controls, Exterior Stand Alone Access Controls.....	524.74	76.91
	EA	Ace Key, Key Controls, Exterior Stand Alone Access Controls.....	524.74	76.91
	EA	Standard Mortise Key And Push Button Intercom, Key Controls, Exterior Stand Alone Access Controls.....	785.75	76.91

##### 28 16 11 00-0019 Keypad Controls, Stand Alone Access Controls <sup>(28 16 11 00-0001)</sup>

##### 28 16 11 00-0020 Interior Mount, Keypad Controls, Stand Alone Access Controls <sup>(28 16 11 00-0019)</sup>

	EA	One Code Memory, Keypad Control, Interior Stand Alone Access Controls.....	300.15	38.46
		Note: Stores one 4-digit entry code and one 4-digit hold code. Controls mount into a single gang electrical box. Excludes electrical box.		

**28 Electronic Safety and Security****28 10 Access Control****28 16 Access Control Interfaces**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0022			<b>Exterior Mount, Keypad Controls, Stand Alone Access Controls</b> (28 16 11 00-0019) Note: Includes a surface mounted lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0023			<b>Keypad Controls, Exterior Stand Alone Access Controls</b> (28 16 11 00-0022)		
28 16 11 00-0024	EA		1000 Code Memory, Keypad Control, Exterior Stand Alone Access Controls ..... 1,252.11 Note: Includes lighted keypad. Stores one thousand 4-digit entry codes and six 5-digit entry codes.	1,252.11	153.82
			<i>For Flush Mount, Add</i>	212.50	
28 16 11 00-0025			<b>Keypad Controls With Push Button Intercom, Exterior Stand Alone Access Controls</b> (28 16 11 00-0022)		
28 16 11 00-0026	EA		1000 Code Memory, Keypad Controls With Push Button Intercom, Exterior Stand Alone Access Controls ..... 1,513.79 Note: Includes lighted keypad. Stores one thousand 4-digit entry codes and six 5-digit entry codes.	1,513.79	173.05
			<i>For Flush Mount, Add</i>	262.73	
28 16 11 00-0027			<b>RF Controls, Stand Alone Access Controls</b> (28 16 11 00-0001)		
28 16 11 00-0028			<b>Exterior Mount, RF Controls, Stand Alone Access Controls</b> (28 16 11 00-0027) Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts and transmitters.		
28 16 11 00-0029			<b>RF Receivers, RF Controls, Exterior Stand Alone Access Controls</b> (28 16 11 00-0028) Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts and transmitters.		
28 16 11 00-0030	EA		50 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls ..... 771.29	771.29	153.82
28 16 11 00-0031	EA		100 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls ..... 864.02	864.02	153.82
28 16 11 00-0032	EA		250 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls ..... 953.32	953.32	153.82
28 16 11 00-0033	EA		500 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls ..... 1,049.48	1,049.48	153.82
28 16 11 00-0034	EA		1000 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls ..... 1,138.77	1,138.77	153.82
28 16 11 00-0035	EA		5000 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls ..... 1,234.94	1,234.94	153.82
28 16 11 00-0036	EA		16000 Code Memory, RF Receiver, RF Controls, Exterior Stand Alone Access Controls ..... 1,324.23	1,324.23	153.82
28 16 11 00-0037			<b>RF Transmitters, RF Controls, Exterior Stand Alone Access Controls</b> (28 16 11 00-0028)		
28 16 11 00-0038	EA		1 Button, RF Transmitter, RF Controls, Exterior Stand Alone Access Controls ..... 58.38 <i>For &gt;40 To 110, Deduct</i> -2.92 <i>For &gt;110, Deduct</i> -5.84 <i>For Built In Proximity Tags, Add</i> 11.68	58.38	
28 16 11 00-0039	EA		2 Button, RF Transmitter, RF Controls, Exterior Stand Alone Access Controls ..... 61.82 <i>For &gt;40 To 110, Deduct</i> -3.09 <i>For &gt;110, Deduct</i> -6.18 <i>For Built In Proximity Tags, Add</i> 12.36	61.82	
28 16 11 00-0040	EA		3 Button, RF Transmitter, RF Controls, Exterior Stand Alone Access Controls ..... 65.25 <i>For &gt;40 To 110, Deduct</i> -3.26 <i>For &gt;110, Deduct</i> -6.53 <i>For Built In Proximity Tags, Add</i> 13.05	65.25	
28 16 11 00-0041			<b>Accessories For RF Receivers, Exterior Stand Alone Access Controls</b> (28 16 11 00-0028)		
28 16 11 00-0042	EA		Coax Antenna Kit For RF Receivers, Exterior Stand Alone Access Controls ..... 313.16 Note: Includes 15' of coax cable.	313.16	115.36
28 16 11 00-0043	EA		Antenna Amplifier For RF Receivers, Exterior Stand Alone Access Controls ..... 574.17 Note: Includes 20' of coax cable.	574.17	115.36
28 16 11 00-0044	EA		Yagi High-Gain Antenna Kit For RF Receivers, Exterior Stand Alone Access Controls ..... 526.09 Note: Includes 15' of coax cable.	526.09	115.36
28 16 11 00-0045			<b>Proximity Card Controls, Stand Alone Access Controls</b> (28 16 11 00-0001)		
28 16 11 00-0046			<b>Exterior Mount, Proximity Card Controls, Stand Alone Access Controls</b> (28 16 11 00-0045) Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0047			<b>DKS Proximity Card Controls, Exterior Stand Alone Access Controls</b> (28 16 11 00-0046)		
28 16 11 00-0048			<b>DKS Proximity Card Readers, Exterior Stand Alone Access Controls</b> (28 16 11 00-0047)		
28 16 11 00-0049	EA		DKS Proximity Card Reader, Exterior Stand Alone Access Controls ..... 1,423.83	1,423.83	153.82
28 16 11 00-0050			<b>AWID Proximity Card Controls, Exterior Stand Alone Access Controls</b> (28 16 11 00-0046)		
28 16 11 00-0051			<b>AWID Proximity Card Readers, Exterior Stand Alone Access Controls</b> (28 16 11 00-0050)		
28 16 11 00-0052	EA		AWID Proximity Card Reader, Exterior Stand Alone Access Controls ..... 1,544.03	1,544.03	153.82
28 16 11 00-0053			<b>HID Proximity Card Controls, Exterior Stand Alone Access Controls</b> (28 16 11 00-0046)		
28 16 11 00-0054			<b>HID Proximity Card Readers, Exterior Stand Alone Access Controls</b> (28 16 11 00-0053)		
28 16 11 00-0055	EA		HID Proximity Card Reader, Exterior Stand Alone Access Controls ..... 1,818.79	1,818.79	153.82





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0056			Magnetic Stripe Card Controls, Stand Alone Access Controls <small>(28 16 11 00-0001)</small>		
28 16 11 00-0057			Interior Mount, Magnetic Stripe Card Controls, Stand Alone Access Controls <small>(28 16 11 00-0056)</small>		
28 16 11 00-0058	EA		Magnetic Stripe Reader, Interior Stand Alone Access Controls.....	874.33	153.82
28 16 11 00-0059			Exterior Mount, Magnetic Stripe Card Controls, Stand Alone Access Controls <small>(28 16 11 00-0056)</small>		
			Note: Includes a lockable NEMA rain resistant steel enclosure. Excludes mounting posts.		
28 16 11 00-0060	EA		Magnetic Stripe Reader, Exterior Stand Alone Access Controls.....	1,068.26	153.82
28 16 11 00-0061			Other Stand Alone Access Controls <small>(28 16 11 00-0001)</small>		
28 16 11 00-0062	EA		Toggle Switch, Interior Access Controls For Gate Operators .....	154.18	38.46
			Note: Controls mount into a single gang electrical box. Excludes electrical box.		
28 16 11 00-0063	EA		Request To Exit Motion Detector (Bosch Security Systems DS160) .....	161.70	30.76
28 16 11 00-0064			Wiegand Output Access Controls <small>(28 16 11)</small>		
			Note: Excludes controllers.		
28 16 11 00-0065			Proximity Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0064)</small>		
28 16 11 00-0066			DKS, Proximity Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0065)</small>		
28 16 11 00-0067			DKS, Proximity Cards <small>(28 16 11 00-0066)</small>		
28 16 11 00-0068	EA		Clamshell Type, DKS Proximity Card (DKS 170).....	9.14	
28 16 11 00-0069	EA		ISO Compliant Graphics Card, DKS Proximity Card (DKS 80).....	15.07	
28 16 11 00-0070	EA		DKS Proximity Key Fob (DKS 50).....	15.87	
28 16 11 00-0071	EA		Active Tag, DKS Proximity Tag (DKS 150).....	89.75	
			Note: Battery powered tag to boost signal.		
28 16 11 00-0072	EA		Active Tag, DKS Proximity Tag (DKS 200).....	117.00	
			Note: Battery powered tag to boost signal.		
28 16 11 00-0073			DKS, Proximity Card Readers, Wiegand Output Access Controls <small>(28 16 11 00-0066)</small>		
28 16 11 00-0074	EA		Up To 2" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Small).....	567.26	192.28
28 16 11 00-0075	EA		Up To 3" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Mullion).....	567.26	192.28
28 16 11 00-0076	EA		Up To 4" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS Single Gang).....	567.26	192.28
28 16 11 00-0077	EA		Up To 30" Read Range, 12 Volt DC, DKS Proximity Card Reader, Wiegand Output Access Controls (DKS).....	1,423.11	192.28
			Note: Includes mounting bracket and 12 Volt DC regulated power supply.		
28 16 11 00-0078			AWID, Proximity Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0065)</small>		
28 16 11 00-0079			AWID, Proximity Cards <small>(28 16 11 00-0078)</small>		
28 16 11 00-0080	EA		Clamshell Type, AWID Proximity Card (AWID Prox-Linc CS) .....	7.69	
28 16 11 00-0081	EA		ISO Compliant Graphics Card, AWID Proximity Card (AWID Prox-Linc GR) .....	12.02	
28 16 11 00-0082	EA		AWID Proximity Key Fob (AWID Prox-Linc KT).....	12.82	
28 16 11 00-0083	EA		Windshield Tag For LR 2000 Readers, AWID Proximity Tag .....	44.88	
28 16 11 00-0084	EA		Metal Mount Tag For LR 2000 Readers, AWID Proximity Tag .....	44.88	
28 16 11 00-0085			AWID, Proximity Card Readers, Wiegand Output Access Controls <small>(28 16 11 00-0078)</small>		
28 16 11 00-0086	EA		Up To 4" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID SR 2400).....	673.04	192.28
			Note: For mullion mounting.		
28 16 11 00-0087	EA		Up To 8" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MM 6800).....	903.83	192.28
			Note: For mullion mounting.		
28 16 11 00-0088	EA		Up To 8" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MM 6820).....	903.83	192.28
			Note: For single gang electrical box mounting.		
28 16 11 00-0089	EA		Up To 24" Read Range, 5-12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID MR 1824).....	1,426.32	192.28
			Note: Includes 12 Volt DC regulated power supply.		
28 16 11 00-0090	EA		Up To 11' Read Range, 12 Volt DC, AWID Proximity Card Reader, Wiegand Output Access Controls (AWID LR 2000).....	7,696.16	192.28
			Note: Includes mounting bracket and 12 Volt DC regulated power supply.		
28 16 11 00-0091			HID, Proximity Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0065)</small>		
28 16 11 00-0092			HID, Proximity Cards <small>(28 16 11 00-0091)</small>		
28 16 11 00-0093	EA		Clamshell Type, HID Proximity Card (HID ProxCard II).....	20.84	
28 16 11 00-0094	EA		ISO Compliant Graphics Card, HID Proximity Card (HID ISOProx II).....	26.61	
28 16 11 00-0095	EA		HID Proximity Key Fob (HID ProxKey II) .....	27.25	

**28 Electronic Safety and Security****28 10 Access Control****28 16 Access Control Interfaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 16 11 00-0096</b> HID, Proximity Card Readers, Wiegand Output Access Controls <small>(28 16 11 00-0091)</small>		
28 16 11 00-0097 EA Up To 3" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID ProxPoint Plus).....	629.22	192.28
Note: For mullion mounting. (HID P/N 6005).		
28 16 11 00-0098 EA Up To 5" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID ThinLine II).....	728.07	192.28
Note: For single gang electrical box mounting. (HID P/N 5395).		
28 16 11 00-0099 EA Up To 5" Read Range, 5-16 Volt DC, HID Proximity Card Reader, Wiegand Output Access Controls (HID MiniProx).....	802.21	192.28
Note: For mullion mounting. (HID P/N 5365).		
28 16 11 00-0100 EA EntryProx Single-Door Proximity Access Control.....	1,002.40	192.28
Note: (HID P/N 4045) Stores up to 2,000 users and 1,000 time-stamped transactions 12 position keypad for Pin entry or programming optional use with card/key fob, code only or card plus pin code Wiegand output mode. Continental Instrument CICR2358P.		
<b>28 16 11 00-0101</b> Contactless Smart Card Controls, Wiegand Output Access Controls <small>(28 16 11 00-0064)</small>		
<b>28 16 11 00-0102</b> HID, Contactless Smart Cards <small>(28 16 11 00-0101)</small>		
28 16 11 00-0103 EA 2K Bits, Clamshell Type, HID iClass, Contactless Smart Card.....	14.10	
28 16 11 00-0104 EA 16K Bits, ISO Compliant Graphics Card, HID iClass, Contactless Smart Card.....	15.40	
28 16 11 00-0105 EA 16K Bits, Contactless Smartcard Key Fob, HID iClass, Contactless Smart Card.....	20.15	
28 16 11 00-0106 EA 16K Bits, Contactless Smartcard Tag, HID iClass, Contactless Smart Card.....	10.91	
Note: Battery powered tag to boost signal.		
<b>28 16 11 00-0107</b> HID, Contactless Smart Card Readers, Wiegand Output Access Controls <small>(28 16 11 00-0101)</small>		
28 16 11 00-0108 EA Up To 3-1/4" Read Range, 5-16 Volt DC, HID iClass Contactless Smart Card Reader, Wiegand Output Access Controls (HID R10).....	638.92	192.28
Note: For mullion mounting.		
28 16 11 00-0109 EA Up To 4-1/4" Read Range, 5-12 Volt DC, HID iClass Contactless Smart Card Reader, Wiegand Output Access Controls (HID R40).....	850.48	192.28
Note: For mullion mounting.		
28 16 11 00-0110 EA Up To 4-1/4" Read Range, 5-12 Volt DC, HID iClass Contactless Smart Card Reader With Keypad, Wiegand Output Access Controls (HID RK40).....	1,326.49	192.28
Note: For mullion mounting.		
<b>28 16 11 00-0111</b> HID, Contactless Smart Card Programmer, Wiegand Output Access Controls <small>(28 16 11 00-0101)</small>		
28 16 11 00-0112 EA HID iClass Contactless Smart Card Programmer, Wiegand Output Access Controls (HID CP400).....	4,003.72	192.28
Note: For mullion mounting.		
<b>28 16 11 00-0113</b> Call Station Controls, Wiegand Output Access Controls <small>(28 16 11 00-0064)</small>		
Note: Includes intercom sub-station. Excludes additional receiving intercoms.		
28 16 11 00-0114 EA Call Station With Entry Keypad, Exterior Wiegand Output Access Controls.....	1,620.93	192.28
Note: For mullion mounting.		
28 16 11 00-0115 EA Call Station With Proximity Card Reader, Exterior Wiegand Output Access Controls.....	1,363.35	192.28
Note: For mullion mounting.		
<b>28 16 11 00-0116</b> Biometrics Readers, Wiegand Output Access Controls <small>(28 16 11 00-0064)</small>		
28 16 11 00-0117 EA Palm Reader Recognition System, Biometrics Readers, Wiegand Output Access Controls.....	6,851.23	153.82
28 16 11 00-0118 EA CCD Camera, Face Image, Biometrics Readers, Wiegand Output Access Controls.....	8,354.90	153.82
28 16 11 00-0119 EA Video Grabber Card For DFR Reader, Biometrics Readers, Wiegand Output Access Controls.....	3,330.09	153.82
28 16 11 00-0120 EA Fingerprint Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Pass).....	2,058.05	153.82
28 16 11 00-0121 EA Fingerprint Reader With HID Card Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Prox).....	2,284.72	153.82
28 16 11 00-0122 EA Fingerprint Reader With Contactless Smart Card Reader, Biometrics Readers, Wiegand Output Access Controls (Bioscrypt V-Smart).....	2,058.05	153.82
<b>28 16 11 00-0123</b> Exterior Mounting Posts For Gate Operator Access Controls <small>(28 16 11)</small>		
Note: Includes mounting plate for access controls, baked on enamel finish and mounting bolt covers. Excludes concrete pads and electrical connections.		
<b>28 16 11 00-0124</b> 2" x 2" Steel, Exterior Mounting Posts For Gate Operator Access Controls <small>(28 16 11 00-0123)</small>		
28 16 11 00-0125 EA 44" Tall, Gooseneck Style, Single Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls.....	451.86	42.19
Note: Includes a 5" x 5" base plate.		
28 16 11 00-0126 EA 73" Tall, Gooseneck Style, Dual Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls.....	857.12	42.19
Note: Includes an 8" x 8" base plate.		
28 16 11 00-0127 EA Anchor Post For 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls.....	410.65	42.19
Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.		
<b>28 16 11 00-0128</b> 4" x 4" Steel, Exterior Mounting Posts For Gate Operator Access Controls <small>(28 16 11 00-0123)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	28 16 11 00-0129	EA		59" Tall, Straight Style, Single Mount, 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls ..... 808.74	808.74	50.62
				Note: Includes an 8" x 8" base plate.		
	28 16 11 00-0130	EA		49" Tall, Offset Style, Single Mount, 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls ..... 959.85	959.85	50.62
				Note: Includes an 8" x 8" base plate and a 14" offset from back of post.		
	28 16 11 00-0131	EA		Anchor Post For 4" x 4" Steel, Exterior Mounting Post For Vehicular Gate Operator Access Controls ..... 599.24	599.24	50.62
				Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.		
	<b>28 16 11 00-0132</b>			<b>4" x 8" Steel, Exterior Mounting Posts For Gate Operator Access Controls<sup>(28 16 11 00-0123)</sup></b>		
	28 16 11 00-0133	EA		59" Tall, Straight Style, Single Mount, 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls ..... 2,582.16	2,582.16	63.28
				Note: Includes a 11" x 13" base plate.		
	28 16 11 00-0134	EA		50" Tall, Offset Style, Single Mount, 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls ..... 2,702.36	2,702.36	63.28
				Note: Includes a 10" x 14" base plate and a 14" offset from back of post.		
	28 16 11 00-0135	EA		Anchor Post For 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls ..... 1,139.71	1,139.71	21.09
				Note: Includes a 24" in-ground post with matching base plate, conduit access and mounting hardware.		
	28 16 11 00-0136	EA		48" Light Tower For 4" x 8" Steel, Exterior Mounting Post For Gate Operator Access Controls ..... 1,792.24	1,792.24	63.28
	<b>28 16 11 00-0137</b>			<b>Access Control Accessories<sup>(28 16 11)</sup></b>		
	28 16 11 00-0138	EA		6 Volt DC, 12 Volt DC, Or 24 Volt DC, At 4 Amperes, Power Supply/Charger (Altronix SMP-5) ..... 678.41	678.41	
	28 16 11 00-0139	EA		7 Amperes, 12 Volt, Battery ..... 85.45	85.45	
	28 16 11 00-0140	EA		18 Amperes, 12 Volt, Battery ..... 190.48	190.48	
	28 16 11 00-0141	EA		Door Personality Module (Sensormatic RM-4) ..... 736.28	736.28	38.46
	28 16 11 00-0142	EA		Mini-Alert Door Ajar Sounder (System Sensor PA400) ..... 316.33	316.33	76.91
	28 16 11 00-0143	EA		Recessed Contact For Steel Doors, Door Monitor Switch (Sentrol 1078C) ..... 104.90	104.90	46.15
	28 16 11 00-0144	EA		Access Control Systems Power Supply (Altronix AL400ULACMCB) ..... 790.56	790.56	30.76
	28 16 11 00-0145	EA		Surge Suppressor (Tripp-Lite IBAR4) ..... 120.43	120.43	7.70
	28 16 11 00-0146	EA		Door Strike Relay (Altronix RBSN-TTL) ..... 93.95	93.95	30.76
	28 16 11 00-0147	EA		4" Diameter x 74" High, Powder Coated Steel, Burial Mount Gooseneck For Access Control Devices (GNB-1) ..... 577.13	577.13	
				Note: Set in concrete.		
	28 16 11 00-0148	EA		16-Zone Input, Door Controller Expansion Module With 16" SPI Cable (Kantech KT-MOD-INP16) ..... 768.08	768.08	192.28
	<b>28 16 11 00-0149</b>			<b>Access Controllers<sup>(28 16 11)</sup></b>		
	<b>28 16 11 00-0150</b>			<b>Microterm Controller<sup>(28 16 11 00-0149)</sup></b>		
	28 16 11 00-0151	EA		Microterm Stand Alone One Or Two Door Processing Panel (Continental Instruments CICIP1100) ..... 1,866.86	1,866.86	192.28
				Note: Up to 1,000 card capacity. Includes 2 alarm inputs, tamper alarm, and 3 relay outputs.		
	28 16 11 00-0152	EA		Microterm PC Board (Continental Instruments CICIP1100PCB) ..... 1,325.58	1,325.58	115.36
	28 16 11 00-0153	EA		Battery Standby For Microterm (Continental Instruments CICIP1100BAT-2) ..... 616.93	616.93	
				Note: Input 120 Volt AC, output 12 Volt DC to temporarily power the Microterm only.		
	<b>28 16 11 00-0154</b>			<b>Miniterm Controller<sup>(28 16 11 00-0149)</sup></b>		
	28 16 11 00-0155	EA		Miniterm Two Reader Processing Panel (Continental Instrument CICIP1200) ..... 2,884.53	2,884.53	192.28
				Note: Up to 3,000 card capacity. Includes 8 EOL Class A supervised alarm inputs, tamper alarm, and 5 relay outputs. Complete in a lockable steel enclosure with battery standby for memory and system operation.		
	28 16 11 00-0156	EA		Miniterm PC Board (Continental Instrument CICIP1200PCB) ..... 2,157.37	2,157.37	115.36
	<b>28 16 11 00-0157</b>			<b>Super-2 Controller<sup>(28 16 11 00-0149)</sup></b>		
	28 16 11 00-0158	EA		Super-Two - Two Reader Processing Panel (Continental Instruments CICIP1300) ..... 2,152.87	2,152.87	192.28
				Note: For use with CA3000 V2.0.25 and above. Up to a 125,000 card capacity, 8 EOL supervised alarm inputs, tamper, 5 relay outputs. Support for on-board LAN adapter, 57,600 baud rate, 6 access groups per card-holder and compressed data mode. Complete in a lockable steel enclosure with battery standby for memory and system operation.		
	28 16 11 00-0159	EA		Super-Two - PC Board (Continental Instruments CICIP1300BD) ..... 1,458.09	1,458.09	115.36
	28 16 11 00-0160	EA		Network Interface Board For Super-2 (Continental Instruments CICIP1300NETBD) ..... 422.17	422.17	115.36
				Note: Optional on-board adapter allows for communication over TCP/IP.		
	<b>28 16 11 00-0161</b>			<b>Smarterm Controller<sup>(28 16 11 00-0149)</sup></b>		
	28 16 11 00-0162	EA		Smarterm Four Reader Processing Panel (Continental Instrument CICIP1400) ..... 5,997.49	5,997.49	230.73
				Note: Card capacity up to 2,500. Includes 16 alarm inputs, tamper alarm, and 9 relay outputs. Complete in a lockable steel enclosure with battery standby for memory and system operation.		
	28 16 11 00-0163	EA		Smarterm PC Board (Continental Instrument CICIP1400PCB) ..... 4,581.89	4,581.89	115.36
	28 16 11 00-0164	EA		Smarterm Memory Board - 256K (Continental Instrument CICIP1400MB256-1) ..... 1,798.51	1,798.51	115.36
				Note: Up to 10,000 cardholders.		
	28 16 11 00-0165	EA		Smarterm Memory Board - 2MB (Continental Instrument CICIP1400MB2-1) ..... 2,546.14	2,546.14	115.36
				Note: Up to 50,000 cardholders.		
	28 16 11 00-0166	EA		Smarterm Relay Expander Board (Continental Instrument CICIP1400RB) ..... 1,985.92	1,985.92	115.36
				Note: 16 Output relays, 8 alarm inputs.		
	28 16 11 00-0167	EA		Smarterm Alarm Expander Board (Continental Instrument CICIP1400RB) ..... 1,985.92	1,985.92	115.36
				Note: (Supervised) 16 alarm inputs.		
	<b>28 16 11 00-0168</b>			<b>Superterm-4 Controller<sup>(28 16 11 00-0149)</sup></b>		

**28 Electronic Safety and Security****28 10 Access Control****28 16 Access Control Interfaces**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 16 11 00-0169 EA Superterm-4 - Four Reader Processing Panel (Continental Instrument CICIP1400UL) ..... Note: 20,000 card capacity, 12 supervised alarm inputs, tamper alarm, and 9 relay outputs. Complete in a painted steel enclosure with 7 AH battery standby for system operation.	5,541.26	230.73
28 16 11 00-0170 EA Superterm-4 PC Board (Continental Instrument CICIP1400ULPCB).....	4,505.21	115.36
<b>28 16 11 00-0171 Superterm-8 Controller</b> (28 16 11 00-0149)		
28 16 11 00-0172 EA Superterm-8 - Eight Reader Processing Panel (Continental Instrument CICIP1800) ..... Note: Up to 20,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including 7 AH battery standby for memory and system operation.	7,401.62	384.55
28 16 11 00-0173 EA Superterm-8 - Eight Reader Processing Panel, Expanded Power (Continental Instrument CICIP1800EXP) ..... Note: With expanded power supply. (required if more than 1 relay expander board is used.) Up to 20,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including 7 AH battery standby for memory and system operation.	8,024.64	384.55
28 16 11 00-0174 EA Superterm-8 PC Board (Continental Instrument CICIP1800PCB).....	6,057.92	115.36
<b>28 16 11 00-0175 Turbo Superterm-4 Controller</b> (28 16 11 00-0149)		
28 16 11 00-0176 EA Turbo Superterm-4 - Four Reader Processing Panel (Continental Instrument CICIP1400ULT)..... Note: 20,000 Card capacity, 12 supervised alarm inputs, tamper alarm, and 9 relay outputs. Complete in a painted steel enclosure with 7 AH battery standby for system operation.	5,541.26	230.73
28 16 11 00-0177 EA Turbo Superterm-4 PC Board (Continental Instrument CICIP1400ULTPCB).....	4,505.21	115.36
<b>28 16 11 00-0178 Turbo Superterm-8 Controller</b> (28 16 11 00-0149)		
28 16 11 00-0179 EA Turbo Superterm-8 - Eight Reader Processing Panel (Continental Instrument CICIP1800T)..... Note: For use with CA3000 V2.0.25 and above. Up to 40,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including a 7 AH battery standby for memory and system operation.	7,401.62	384.55
28 16 11 00-0180 EA Turbo Superterm-8 -Eight Reader Processing Panel, Expanded Power (Continental Instrument CICIP1800TEXP) ..... Note: Required if more than one relay expander board is used. Up to 40,000 card capacity, 24 supervised alarm inputs, tamper alarm, and 17 relay outputs. Complete in a steel enclosure including a 7 AH battery standby for memory and system operation.	8,024.64	384.55
28 16 11 00-0181 EA Turbo Superterm-8 PC Board (Continental Instrument CICIP1800TPCB).....	6,057.92	115.36
28 16 11 00-0182 EA Superterm Memory Board - 2MB (Continental Instrument CICIP1800MB2)..... Note: Up to 140,000 cardholders.	2,546.14	115.36
28 16 11 00-0183 EA Turbo/Superterm-8 Memory Board - 2MB (Continental Instrument CICIP1800MB2X2)..... Note: Up to 140,000 cardholders.	2,147.39	115.36
28 16 11 00-0184 EA Turbo Superterm-8 Relay Expander Board (Continental Instrument CICIP1800RB)..... Note: 16 Output relays, 8 alarm inputs.	1,987.94	115.36
28 16 11 00-0185 EA Turbo Superterm-8 Alarm Expander Board (Continental Instrument CICIP1800RB)..... Note: (Supervised) 16 Alarm inputs.	1,987.94	115.36
28 16 11 00-0186 EA Expanded Power Supply For Superterm Or Turbo Superterm (Continental Instrument CICIP1800PPWS).....	799.13	
<b>28 16 11 00-0187 Intelligent Controller</b> (28 16 11 00-0149)		
28 16 11 00-0188 EA Intelligent Controller With Paired Reader Interface for One Physical Barrier (Mercury Security EP-1501).....	1,432.23	115.36
28 16 11 00-0189 EA Up To 64 Doors, Access Controller (Mercury Security EP-1502).....	2,494.84	192.28
<b>28 16 11 00-0190 Access Control Bundled System</b> (28 16 11)		
28 16 11 00-0191 EA CA 3000 Bundled System, Supports 25 Users (Continental Instrument CA3B250P4O3V0R0)..... Note: System includes PC, monitor, keyboard, mouse, OS, Card Access 3000 file server software, MS SQL 2000, 1 SQL host license, and security key.	39,801.95	
<b>28 16 11 00-0192 Magnetic Locks</b> (28 16 11) Note: Excludes access controls.		
<b>28 16 11 00-0193 Magnetic Door Locks</b> (28 16 11 00-0192)		
<b>28 16 11 00-0194 300 LB Magnetic Door Locks</b> (28 16 11 00-0193)		
28 16 11 00-0195 EA Single Door, Surface Mount, 300 LB Magnetic Door Lock.....	716.34	153.82
<b>28 16 11 00-0196 600 LB Magnetic Door Locks</b> (28 16 11 00-0193)		
28 16 11 00-0197 EA 600 LB, Single Door, Surface Mount, Magnetic Door Lock..... For LED Status Indicator And Signal Relay, Add 86.50 For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add 173.01 For Mortise Mount, Deduct -138.41	999.68	153.82
28 16 11 00-0198 EA 600 LB, Dual Doors, Surface Mount, Magnetic Door Lock..... For LED Status Indicator And Signal Relay, Add 144.67 For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add 289.35	1,465.04	153.82
<b>28 16 11 00-0199 1,200 LB Magnetic Door Locks</b> (28 16 11 00-0193)		
28 16 11 00-0200 EA 1,200 LB, Single Door, Surface Mount, Magnetic Door Lock..... For LED Status Indicator And Signal Relay, Add 169.04 For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add 220.49	1,042.61	153.82
28 16 11 00-0201 EA Dual Doors, Surface Mount, 1,200 LB Magnetic Door Lock..... For LED Status Indicator And Signal Relay, Add 287.53 For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add 375.04	1,557.77	153.82



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**28 16 11 00-0202**    **2,000 LB Shear Lock, Magnetic And Mechanical Locks** (28 16 11 00-0193)  
 Note: Includes LED status indicator and built-in signal relay.

28 16 11 00-0203	EA	Single Door, Mortise Mount, 2,000 LB Shear Lock, Magnetic And Mechanical Door Lock.....	1,088.98	153.82
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**28 16 11 00-0204**    **Magnetic Gate Locks** (28 16 11 00-0192)

**28 16 11 00-0205**    **600 LB Magnetic Gate Locks** (28 16 11 00-0204)

28 16 11 00-0206	EA	600 LB Magnetic Gate Lock .....	829.68	153.82
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**28 16 11 00-0207**    **1,200 LB Magnetic Gate Locks** (28 16 11 00-0204)

28 16 11 00-0208	EA	1,200 LB Magnetic Gate Lock .....	985.94	153.82
		For LED Status Indicator And Signal Relay, Add	84.79	
		For LED Status Indicator, Signal Relay And Built-In Delay Timer, Add	169.57	
		For Mortise Mount, Deduct	-135.66	

**28 16 11 00-0209**    **Magnetic Lock Power Supply And Chargers** (28 16 11 00-0192)

Note: Includes lockable metal enclosure, batteries, battery charger and electronically regulated outputs.

28 16 11 00-0210	EA	12/24 Volt DC At 1 Ampere, Magnetic Lock Backup Power Supply And Charger .....	629.76	153.82
28 16 11 00-0211	EA	12/24 Volt DC At 2-1/2 Amperes, Magnetic Lock Backup Power Supply And Charger .....	785.45	153.82
28 16 11 00-0212	EA	12 Volt DC At 4 Amperes And 24 Volt DC At 3 Amperes, Magnetic Lock Backup Power Supply And Charger .....	877.03	153.82
28 16 11 00-0213	EA	12/24 Volt DC At 6 Amperes, Magnetic Lock Backup Power Supply And Charger.....	1,087.68	153.82

**28 16 11 00-0214**    **Master Door Buzzer Stations** (28 16 11)

**28 16 11 00-0215**    **Master Stations** (28 16 11 00-0214)

28 16 11 00-0216	EA	Master Stations, 5 Station Intercommunication Equipment .....	1,269.78	239.96
28 16 11 00-0217	EA	Master Stations, 10 Station Intercommunication Equipment .....	1,946.23	464.54
28 16 11 00-0218	EA	Master Station, Desk Style Remote Intercommunication Equipment.....	551.89	119.98
28 16 11 00-0219	EA	Master Station, Flush Wall Remote Intercommunication Equipment .....	723.61	199.97
28 16 11 00-0220	EA	Sound System Outlet, Protector .....	195.65	78.30
28 16 11 00-0221	EA	Sound System Microphone Outlet.....	350.84	160.28
28 16 11 00-0222	EA	Ceiling Or Wall, Sound System Speaker .....	252.09	78.30
28 16 11 00-0223	EA	Sound System Monitor Panel .....	711.26	160.28
28 16 11 00-0224	EA	Sound System Volume Control.....	221.68	78.30
28 16 11 00-0225	EA	250 Watt, Sound System Amplifier .....	3,253.62	640.98
28 16 11 00-0226	EA	Sound System Cabinet.....	1,998.30	640.98

**28 16 11 00-0227**    **Master Door Stations** (28 16 11 00-0214)

28 16 11 00-0228	EA	Master Door Stations, Button Buzzer Type, 25 Station.....	3,025.37	
		For Intercom Type Master Door Station, Add	216.80	
28 16 11 00-0229	EA	Master Door Stations, Button Buzzer Type, 50 Station.....	5,016.23	
		For Intercom Type Master Door Station, Add	351.21	
28 16 11 00-0230	EA	Master Door Stations, Button Buzzer Type, 75 Station.....	6,903.47	
		For Intercom Type Master Door Station, Add	455.27	
28 16 11 00-0231	EA	Master Door Stations, Button Buzzer Type, 100 Station.....	7,881.75	
		For Intercom Type Master Door Station, Add	533.32	
28 16 11 00-0232	EA	Master Door Stations, Button Buzzer Type, 150 Station.....	9,468.57	
		For Intercom Type Master Door Station, Add	780.46	
28 16 11 00-0233	EA	Master Door Stations, Button Buzzer Type, 200 Station.....	11,044.18	
		For Intercom Type Master Door Station, Add	1,005.93	
28 16 11 00-0234	EA	Master Door Stations, Button Buzzer Type, 250 Station.....	13,878.18	
		For Intercom Type Master Door Station, Add	1,300.77	
28 16 11 00-0235	EA	Master Door Stations, Button Buzzer Type, 300 Station.....	16,624.98	
		For Intercom Type Master Door Station, Add	1,491.55	
28 16 11 00-0236	EA	Transformer .....	210.19	
28 16 11 00-0237	EA	Door Opener.....	311.62	
28 16 11 00-0238	EA	Buzzer With Door Release And Plate .....	388.59	
28 16 11 00-0239	EA	Amplifier For Intercom Type Unit.....	601.48	
28 16 11 00-0240	EA	Speaker With Door Release .....	257.16	

**28 18 Security Access Detection Equipment** (28 10)

**28 18 11 Security Access Metal Detectors** (28 18)

28 18 11 00-0001	EA	Handheld Scanner (Garrett Super Scanner V).....	293.43	38.46
28 18 11 00-0002	EA	Single-Zone, Walk-Through Metal Detector, Complete Unit (Garrett CS 5000).....	4,677.21	461.46
28 18 11 00-0003	EA	Multi-Zone, Walk-Through Metal Detector, Complete Unit (Garrett PD 6500).....	7,184.51	615.28

**28 20 Video Surveillance** (28)

Note: Includes testing of new devices and certification.

**28 21 Surveillance Cameras** (28 20)

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**28 21 31 Proprietary Surveillance Camera Systems (28 21)**

Note: Includes programming of equipment, testing and certification of new devices.

28 21 31 00-0001		Closed Circuit Television And Surveillance Systems (Pelco) (28 21 31)		
28 21 31 00-0002		Cameras And Accessories (28 21 31 00-0001)		
28 21 31 00-0003		Cameras (28 21 31 00-0002)		
28 21 31 00-0004		Compact, 1/3" Format Cameras (28 21 31 00-0003)		
28 21 31 00-0005		High Resolution Color, Compact, 1/3" Format Cameras (28 21 31 00-0004)		
28 21 31 00-0006	EA	High Resolution Day/Night, Compact, 1/3" Format Camera (Pelco C10DN-6)	647.92	38.51
28 21 31 00-0007		Day/Night, Compact, 1/3" Format Cameras (28 21 31 00-0004)		
28 21 31 00-0008	EA	High Resolution Color, Compact, 1/3" Format Camera (Pelco C10CH-6)	388.98	38.51
28 21 31 00-0009		Camerapaks (28 21 31 00-0002)		
		Note: Includes camera and lens.		
28 21 31 00-0010		Camerapaks (28 21 31 00-0009)		
28 21 31 00-0011		High Resolution Color, Camerapaks (28 21 31 00-0010)		
28 21 31 00-0012		Fixed Focus, High Resolution Color, Camerapaks (28 21 31 00-0011)		
28 21 31 00-0013		Manual Iris, Fixed Focus, High Resolution Color, Camerapaks (28 21 31 00-0012)		
28 21 31 00-0014	EA	2.3 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.3)	501.29	38.51
28 21 31 00-0015	EA	2.8 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.8)	472.17	38.51
28 21 31 00-0016	EA	4 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F4)	458.65	38.51
28 21 31 00-0017	EA	8 mm, Manual Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F8)	455.53	38.51
28 21 31 00-0018		Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapaks (28 21 31 00-0012)		
28 21 31 00-0019	EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.3A)	544.97	38.51
28 21 31 00-0020	EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F2.8A)	501.29	38.51
28 21 31 00-0021	EA	4 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F4A)	490.89	38.51
28 21 31 00-0022	EA	8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Color, Camerapak (Pelco C10CH-6F8A)	482.57	38.51
28 21 31 00-0023		Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0011)		
28 21 31 00-0024		Manual Iris, Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0023)		
28 21 31 00-0025	EA	1-3 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V1)	587.60	38.51
28 21 31 00-0026	EA	2.5-6 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V2)	531.45	38.51
28 21 31 00-0027	EA	2.8-12 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V21)	485.69	38.51
28 21 31 00-0028	EA	3-8 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V3)	466.97	38.51
28 21 31 00-0029	EA	5-40 mm, Manual Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V5)	536.65	38.51
28 21 31 00-0030		Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0023)		
28 21 31 00-0031	EA	1-3 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V1A)	633.36	38.51
28 21 31 00-0032	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V2A)	594.88	38.51
28 21 31 00-0033	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V21A)	529.37	38.51
28 21 31 00-0034	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V3A)	474.25	38.51
28 21 31 00-0035	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V5A)	558.48	38.51
28 21 31 00-0036	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V50A)	629.20	38.51
28 21 31 00-0037	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6V55A)	719.67	38.51
28 21 31 00-0038		Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapaks (28 21 31 00-0023)		
28 21 31 00-0039	EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6R3A)	498.17	38.51
28 21 31 00-0040	EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Color, Camerapak (Pelco C10CH-6R75A)	592.80	38.51
28 21 31 00-0041		High Resolution Day/Night, Camerapaks (28 21 31 00-0010)		
28 21 31 00-0042		Varifocal, High Resolution Day/Night, Camerapaks (28 21 31 00-0041)		
28 21 31 00-0043		Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapaks (28 21 31 00-0042)		
28 21 31 00-0044	EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V2A)	992.12	38.51
28 21 31 00-0045	EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V21A)	926.61	38.51
28 21 31 00-0046	EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V3A)	871.49	38.51
28 21 31 00-0047	EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V5A)	955.73	38.51
28 21 31 00-0048	EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V50A)	1,026.44	38.51
28 21 31 00-0049	EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6V55A)	1,115.87	38.51



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0050				<b>Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapaks</b> (28 21 31 00-0042)		
28 21 31 00-0051	EA			3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6R3A).....	895.41	38.51
28 21 31 00-0052	EA			7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Camerapak (Pelco C1390H-6R75A).....	990.04	38.51
28 21 31 00-0053				<b>Compact Camerapaks</b> (28 21 31 00-0009)		
28 21 31 00-0054				<b>High Resolution Color, Compact Camerapaks</b> (28 21 31 00-0053)		
28 21 31 00-0055				<b>DSS, High Resolution Color, Compact Camerapaks</b> (28 21 31 00-0054)		
28 21 31 00-0056				<b>Fixed Focus, DSS, High Resolution Color, Camerapaks</b> (28 21 31 00-0055)		
28 21 31 00-0057				<b>Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapaks</b> (28 21 31 00-0056)		
28 21 31 00-0058	EA			2.3 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.3).....	772.70	38.51
28 21 31 00-0059	EA			2.8 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.8).....	743.59	38.51
28 21 31 00-0060	EA			4 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F4).....	729.03	38.51
28 21 31 00-0061	EA			8 mm, Manual Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F8).....	725.91	38.51
28 21 31 00-0062				<b>Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapaks</b> (28 21 31 00-0056)		
28 21 31 00-0063	EA			2.3 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.3A).....	815.34	38.51
28 21 31 00-0064	EA			2.8 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F2.8A).....	772.70	38.51
28 21 31 00-0065	EA			4 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F4A).....	762.30	38.51
28 21 31 00-0066	EA			8 mm, Direct Drive Auto Iris, Fixed Focus, DSS, High Resolution Color, Camerapak (Pelco C3751H-2F8A).....	753.98	38.51
28 21 31 00-0067				<b>Varifocal, DSS, High Resolution Color, Camerapaks</b> (28 21 31 00-0055)		
28 21 31 00-0068				<b>Manual Iris, Varifocal, DSS, High Resolution Color, Camerapaks</b> (28 21 31 00-0067)		
28 21 31 00-0069	EA			1-3 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V1).....	859.01	38.51
28 21 31 00-0070	EA			2.5-6 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V2).....	801.82	38.51
28 21 31 00-0071	EA			2.8-12 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V21).....	757.10	38.51
28 21 31 00-0072	EA			3-8 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V3).....	738.39	38.51
28 21 31 00-0073	EA			5-40 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V5).....	807.02	38.51
28 21 31 00-0074	EA			5-50 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V50).....	851.74	38.51
28 21 31 00-0075	EA			5.5-82.5 mm, Manual Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V55).....	957.81	38.51
28 21 31 00-0076				<b>Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapaks</b> (28 21 31 00-0067)		
28 21 31 00-0077	EA			1-3 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V1A).....	903.73	38.51
28 21 31 00-0078	EA			2.5-6 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V2A).....	866.29	38.51
28 21 31 00-0079	EA			2.8-12 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V21A).....	800.78	38.51
28 21 31 00-0080	EA			3-8 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V3A).....	744.63	38.51
28 21 31 00-0081	EA			5-40 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V5A).....	829.90	38.51
28 21 31 00-0082	EA			5-50 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V50A).....	900.61	38.51
28 21 31 00-0083	EA			5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2V55A).....	990.04	38.51
28 21 31 00-0084				<b>Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapaks</b> (28 21 31 00-0067)		
28 21 31 00-0085	EA			3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2R3A).....	769.58	38.51
28 21 31 00-0086	EA			7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, DSS, High Resolution Color, Camerapak (Pelco C3751H-2R75A).....	864.21	38.51
28 21 31 00-0087				<b>EDR, High Resolution Color, Compact Camerapaks</b> (28 21 31 00-0054)		
28 21 31 00-0088				<b>Fixed Focus, EDR, High Resolution Color, Camerapaks</b> (28 21 31 00-0087)		
28 21 31 00-0089				<b>Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapaks</b> (28 21 31 00-0088)		
28 21 31 00-0090	EA			2.3 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.3).....	772.70	38.51
28 21 31 00-0091	EA			2.8 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.8).....	581.36	38.51
28 21 31 00-0092	EA			4 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F4).....	566.80	38.51
28 21 31 00-0093	EA			8 mm, Manual Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F8).....	563.68	38.51
28 21 31 00-0094				<b>Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapaks</b> (28 21 31 00-0088)		
28 21 31 00-0095	EA			2.3 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.3A).....	653.11	38.51
28 21 31 00-0096	EA			2.8 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F2.8A).....	610.48	38.51
28 21 31 00-0097	EA			4 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F4A).....	600.08	38.51
28 21 31 00-0098	EA			8 mm, Direct Drive Auto Iris, Fixed Focus, EDR, High Resolution Color, Camerapak (Pelco C3701H-2F8A).....	600.08	38.51

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0099	<b>Varifocal, EDR, High Resolution Color, Camerapaks</b> (28 21 31 00-0087)	
28 21 31 00-0100	<b>Manual Iris, Varifocal, EDR, High Resolution Color, Camerapaks</b> (28 21 31 00-0099)	
28 21 31 00-0101 EA	1-3 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V1).....	696.79 38.51
28 21 31 00-0102 EA	2.5-6 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V2).....	639.60 38.51
28 21 31 00-0103 EA	2.8-12 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V21).....	594.88 38.51
28 21 31 00-0104 EA	3-8 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V3).....	576.16 38.51
28 21 31 00-0105 EA	5-40 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V5).....	644.80 38.51
28 21 31 00-0106 EA	5-50 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V50).....	689.51 38.51
28 21 31 00-0107 EA	5.5-82.5 mm, Manual Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V55).....	795.58 38.51
28 21 31 00-0108	<b>Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapaks</b> (28 21 31 00-0099)	
28 21 31 00-0109 EA	1-3 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V1A).....	741.51 38.51
28 21 31 00-0110 EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V2A).....	704.07 38.51
28 21 31 00-0111 EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V21A).....	637.52 38.51
28 21 31 00-0112 EA	3-8 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V3A).....	582.40 38.51
28 21 31 00-0113 EA	5-40 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V5A).....	667.67 38.51
28 21 31 00-0114 EA	5-50 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V50A).....	738.39 38.51
28 21 31 00-0115 EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2V55A).....	827.82 38.51
28 21 31 00-0116	<b>Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapaks</b> (28 21 31 00-0099)	
28 21 31 00-0117 EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2R3A).....	607.36 38.51
28 21 31 00-0118 EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, EDR, High Resolution Color, Camerapak (Pelco C3701H-2R75A).....	701.99 38.51
28 21 31 00-0119	<b>High Resolution Day/Night, Compact Camerapaks</b> (28 21 31 00-0053)	
28 21 31 00-0120	<b>Fixed Focus, High Resolution Day/Night, Compact Camerapaks</b> (28 21 31 00-0119)	
28 21 31 00-0121	<b>Manual Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapaks</b> (28 21 31 00-0120)	
28 21 31 00-0122 EA	8 mm, Manual Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F8).....	714.47 38.51
28 21 31 00-0123	<b>DC-Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapaks</b> (28 21 31 00-0120)	
28 21 31 00-0124 EA	2.3 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F2.3A).....	803.90 38.51
28 21 31 00-0125 EA	2.8 mm, Direct Drive Auto Iris, Fixed Focus, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6F2.8A).....	760.22 38.51
28 21 31 00-0126	<b>Varifocal, High Resolution Day/Night, Compact Camerapaks</b> (28 21 31 00-0119)	
28 21 31 00-0127	<b>Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks</b> (28 21 31 00-0126)	
28 21 31 00-0128 EA	2.8-12 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V21).....	744.63 38.51
28 21 31 00-0129 EA	3-8 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V3).....	725.91 38.51
28 21 31 00-0130 EA	5-50 mm, Manual Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V50).....	840.30 38.51
28 21 31 00-0131	<b>Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks</b> (28 21 31 00-0126)	
28 21 31 00-0132 EA	2.5-6 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V2A).....	853.82 38.51
28 21 31 00-0133 EA	2.8-12 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V21A).....	788.30 38.51
28 21 31 00-0134 EA	3-8 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V3A).....	733.19 38.51
28 21 31 00-0135 EA	5-40 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V5A).....	817.42 38.51
28 21 31 00-0136 EA	5-50 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V50A).....	888.13 38.51
28 21 31 00-0137 EA	5.5-82.5 mm, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6V55A).....	978.60 38.51
28 21 31 00-0138	<b>Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapaks</b> (28 21 31 00-0126)	
28 21 31 00-0139 EA	3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6R3A).....	757.10 38.51
28 21 31 00-0140 EA	7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal, High Resolution Day/Night, Compact Camerapak (Pelco C10DN-6R75A).....	851.74 38.51





MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0141	Camera Systems (28 21 31 00-0002)		
28 21 31 00-0142	Camera Dome Systems (28 21 31 00-0141)		
28 21 31 00-0143	Spectra®, Pan/Tilt Camera Dome Systems (28 21 31 00-0142)		
28 21 31 00-0144	Spectra®, Pan/Tilt Camera Dome Systems (28 21 31 00-0143) Note: Includes dome drive, camera, lens, back box, clear or smoked lower dome and mounting hardware.		
28 21 31 00-0145	Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0144)		
28 21 31 00-0146	Black And White, Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0145)		
28 21 31 00-0147	EA 22X, Surface Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-SMB).....	3,194.92	231.03
28 21 31 00-0148	EA 22X, In-Ceiling Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-F).....	3,621.28	231.03
28 21 31 00-0149	EA 22X, Pendant Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PB).....	3,812.62	231.03
28 21 31 00-0150	EA 22X, Environmental Pendant Mount, Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PG-E).....	5,243.52	231.03
28 21 31 00-0151	Color, Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0145)		
28 21 31 00-0152	EA 16X, Surface Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-SMB).....	2,711.36	231.03
28 21 31 00-0153	EA 16X, In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-F).....	2,926.62	231.03
28 21 31 00-0154	EA 16X, Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PB).....	3,119.00	231.03
28 21 31 00-0155	EA 16X, Environmental In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-F-E).....	3,229.23	231.03
28 21 31 00-0156	EA 16X, Environmental Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PG-E).....	3,229.23	231.03
28 21 31 00-0157	EA 22X, Surface Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-SMB).....	3,377.94	231.03
28 21 31 00-0158	EA 22X, In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-F).....	3,805.34	231.03
28 21 31 00-0159	EA 22X, Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PB).....	3,997.72	231.03
28 21 31 00-0160	EA 22X, Environmental In-Ceiling Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-F-E).....	4,107.95	231.03
28 21 31 00-0161	EA 22X, Environmental Pendant Mount, Color, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PG-E).....	4,107.95	231.03
28 21 31 00-0162	Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0145)		
28 21 31 00-0163	EA 23X, Surface Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-SMB).....	3,911.41	231.03
28 21 31 00-0164	EA 23X, In-Ceiling Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-F).....	4,338.81	231.03
28 21 31 00-0165	EA 23X, Pendant Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PB).....	4,531.19	231.03
28 21 31 00-0166	EA 23X, Environmental In-Ceiling Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-F-E).....	4,641.42	231.03
28 21 31 00-0167	EA 23X, Environmental Pendant Mount, Color/Black And White, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PG-E).....	4,641.42	231.03
28 21 31 00-0168	Day/Night, Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0145)		
28 21 31 00-0169	EA 18X, Surface Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-SMB).....	3,562.00	231.03
28 21 31 00-0170	EA 18X, In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-F).....	3,778.30	231.03
28 21 31 00-0171	EA 18X, Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PB).....	3,969.64	231.03
28 21 31 00-0172	EA 18X, Environmental In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-F-E).....	4,079.87	231.03
28 21 31 00-0173	EA 18X, Environmental Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PG-E).....	4,079.87	231.03
28 21 31 00-0174	EA 35X, Surface Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-SMB).....	4,261.85	231.03
28 21 31 00-0175	EA 35X, In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-F).....	4,601.90	231.03
28 21 31 00-0176	EA 35X, Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PB).....	4,793.24	231.03
28 21 31 00-0177	EA 35X, Environmental In-Ceiling Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-F-E).....	4,903.47	231.03
28 21 31 00-0178	EA 35X, Environmental Pendant Mount, Day/Night, Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PG-E).....	4,903.47	231.03
28 21 31 00-0179	Heavy Duty Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0144)		
28 21 31 00-0180	Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0179)		
28 21 31 00-0181	EA 16X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HF)..... <i>For Protective Lower Dome Cage, Add</i>	3,488.17 34.65	231.03
28 21 31 00-0182	EA 16X, Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HP)..... <i>For Protective Lower Dome Cage, Add</i>	3,673.27 34.65	231.03
28 21 31 00-0183	EA 16X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-HPE)..... <i>For Protective Lower Dome Cage, Add</i>	3,820.94 34.65	231.03
28 21 31 00-0184	EA 22X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HF)..... <i>For Protective Lower Dome Cage, Add</i>	4,302.41 34.65	231.03
28 21 31 00-0185	EA 22X, Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HP)..... <i>For Protective Lower Dome Cage, Add</i>	4,487.51 34.65	231.03
28 21 31 00-0186	EA 22X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-HPE)..... <i>For Protective Lower Dome Cage, Add</i>	4,636.22 34.65	231.03
28 21 31 00-0187	Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0179)		
28 21 31 00-0188	EA 18X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HF)..... <i>For Protective Lower Dome Cage, Add</i>	4,338.81 34.65	231.03
28 21 31 00-0189	EA 18X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HP)..... <i>For Protective Lower Dome Cage, Add</i>	4,523.91 34.65	231.03

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0190 EA 18X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-HPE).....	4,672.62	231.03
For Protective Lower Dome Cage, Add	34.65	
28 21 31 00-0191 EA 35X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HF).....	5,098.97	231.03
For Protective Lower Dome Cage, Add	34.65	
28 21 31 00-0192 EA 35X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HP).....	5,283.04	231.03
For Protective Lower Dome Cage, Add	34.65	
28 21 31 00-0193 EA 35X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-HPE).....	5,431.74	231.03
For Protective Lower Dome Cage, Add	34.65	
<b>28 21 31 00-0194 Pressurized Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0144)</b>		
<b>28 21 31 00-0195 Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0194)</b>		
28 21 31 00-0196 EA 18X, Environmental Pendant Mount, Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PRE).....	5,704.20	231.03
28 21 31 00-0197 EA 35X, Environmental Pendant Mount, Day/Night, Pressurized Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PRE).....	6,464.36	231.03
<b>28 21 31 00-0198 Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0144)</b>		
<b>28 21 31 00-0199 Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0198)</b>		
28 21 31 00-0200 EA 22X, Environmental Pendant Mount, Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4M22-PSGE).....	4,974.19	231.03
<b>28 21 31 00-0201 Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0198)</b>		
28 21 31 00-0202 EA 16X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4TC-PSGE).....	4,344.01	231.03
28 21 31 00-0203 EA 22X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4C22-PSGE).....	5,159.29	231.03
<b>28 21 31 00-0204 Color/Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0198)</b>		
28 21 31 00-0205 EA 23X, Environmental Pendant Mount, Color/Black And White, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD4CBW-PSGE).....	5,692.76	231.03
<b>28 21 31 00-0206 Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome Systems (28 21 31 00-0198)</b>		
28 21 31 00-0207 EA 18X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD418-PSGE).....	5,195.68	231.03
28 21 31 00-0208 EA 35X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV, Pan/Tilt Camera Dome System (Pelco SD435-PSGE).....	5,954.81	231.03
<b>28 21 31 00-0209 Miniature Spectra®, Mini Pan/Tilt Camera Dome Systems (28 21 31 00-0144)</b>		
<b>28 21 31 00-0210 Color, Miniature Spectra®, Mini Pan/Tilt Camera Dome Systems (28 21 31 00-0209)</b>		
28 21 31 00-0211 EA 10X, In-Ceiling Mount, Color, Miniature Spectra®, Mini Pan/Tilt Camera Dome System (Pelco SD4-B).....	2,060.39	231.03
<b>28 21 31 00-0212 Spectra® IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0143)</b>		
Note: Includes simultaneous IP and analog video and control, dome drive, camera, lens, back box, clear or smoked lower dome and mounting hardware.		
<b>28 21 31 00-0213 Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0212)</b>		
<b>28 21 31 00-0214 Color, Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0213)</b>		
28 21 31 00-0215 EA 16X, In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-F).....	3,703.43	231.03
28 21 31 00-0216 EA 16X, Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-PB).....	3,895.81	231.03
28 21 31 00-0217 EA 16X, Environmental In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-F-E).....	4,006.04	231.03
28 21 31 00-0218 EA 16X, Environmental Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NTC-PG-E).....	4,006.04	231.03
28 21 31 00-0219 EA 22X, In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-F1).....	4,582.14	231.03
28 21 31 00-0220 EA 22X, Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-PB-1).....	4,774.53	231.03
28 21 31 00-0221 EA 22X, Environmental In-Ceiling Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-F-E1).....	4,884.75	231.03
28 21 31 00-0222 EA 22X, Environmental Pendant Mount, Color, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NC22-PG-E1).....	4,884.75	231.03
<b>28 21 31 00-0223 Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0213)</b>		
28 21 31 00-0224 EA 23X, In-Ceiling Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-F1).....	5,115.61	231.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0225 EA 23X, Pendant Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-PB-1).....	5,307.99	231.03
28 21 31 00-0226 EA 23X, Environmental In-Ceiling Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-F-E1).....	5,418.22	231.03
28 21 31 00-0227 EA 23X, Environmental Pendant Mount, Color/Black And White, Spectra® IV IP Network, Pan/Tilt Camera Dome System (Pelco SD4NCBW-PG-E1).....	5,418.22	231.03
<b>28 21 31 00-0228 Heavy Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0212)</b>		
<b>28 21 31 00-0229 Color, Heavy Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0228)</b>		
28 21 31 00-0230 EA 16X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HF1).....	4,264.97	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0231 EA 16X, Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HP1).....	4,450.08	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0232 EA 16X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-HPE1).....	4,597.74	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0233 EA 22X, In-Ceiling Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HF1).....	5,079.22	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0234 EA 22X, Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HP1).....	5,264.32	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0235 EA 22X, Environmental Pendant Mount, Color, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-HPE1).....	5,413.02	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
<b>28 21 31 00-0236 Day/Night, Heavy Duty Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0228)</b>		
28 21 31 00-0237 EA 18X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HF1).....	5,115.61	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0238 EA 18X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HP1).....	5,300.71	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0239 EA 18X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-HPE1).....	5,449.42	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0240 EA 35X, In-Ceiling Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HF1).....	5,875.78	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0241 EA 35X, Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HP1).....	6,059.84	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
28 21 31 00-0242 EA 35X, Environmental Pendant Mount, Day/Night, Heavy Duty Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-HPE1).....	6,208.55	231.03
<i>For Protective Lower Dome Cage, Add</i>	34.65	
<b>28 21 31 00-0243 Stainless Steel Spectra® IV IP Network, Pan/Tilt Camera Dome Systems (28 21 31 00-0212)</b>		
<b>28 21 31 00-0244 Color, Stainless Steel Spectra® IV IP Network, Camera Dome Systems (28 21 31 00-0243)</b>		
28 21 31 00-0245 EA 16X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4NTC-PSGE1).....	5,120.81	231.03
28 21 31 00-0246 EA 22X, Environmental Pendant Mount, Color, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4NC22-PSGE1).....	5,936.09	231.03
<b>28 21 31 00-0247 Color/Black And White, Stainless Steel Spectra® IV IP Network, Camera Dome Systems (28 21 31 00-0243)</b>		
28 21 31 00-0248 EA 23X, Environmental Pendant Mount, Color/Black And White, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-PSGE1).....	6,469.56	231.03
<b>28 21 31 00-0249 Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome Systems (28 21 31 00-0243)</b>		
28 21 31 00-0250 EA 18X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N18-PSGE1).....	5,972.49	231.03
28 21 31 00-0251 EA 35X, Environmental Pendant Mount, Day/Night, Stainless Steel Spectra® IV IP Network, Camera Dome System (Pelco SD4N35-PSGE1).....	6,731.62	231.03
<b>28 21 31 00-0252 Miniature Spectra® IP Network, Mini Pan/Tilt Camera Dome Systems (28 21 31 00-0212)</b>		
<b>28 21 31 00-0253 Color, Miniature Spectra® IP Network, Mini Camera Dome Systems (28 21 31 00-0252)</b>		
28 21 31 00-0254 EA 10X, In-Ceiling Mount, Color, Miniature Spectra® IP Network, Black Mini Camera Dome System (Pelco SD4N-W1).....	2,561.62	231.03

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 21 31 00-0255 Spectra®, Pan/Tilt Dome Drives</b> <small>(28 21 31 00-0143)</small>		
Note: Includes dome drive, camera and lens.		
28 21 31 00-0256 EA 10X, Color Camera, Spectra® Mini Dome Drive (Pelco DD4) .....	1,905.38	192.52
28 21 31 00-0257 EA 10X, Color Camera, Spectra® IP Network, Mini Dome Drive (Pelco DD4N) .....	2,404.54	192.52
28 21 31 00-0258 EA 22X, Black And White Camera, Spectra® IV Dome Drive (Pelco DD4M22) .....	3,021.20	192.52
28 21 31 00-0259 EA 16X, Color Camera, Spectra® IV Dome Drive (Pelco DD4TC16) .....	2,391.02	192.52
28 21 31 00-0260 EA 22X, Color Camera, Spectra® IV Dome Drive (Pelco DD4C22) .....	3,205.26	192.52
28 21 31 00-0261 EA 18X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW18) .....	3,241.66	192.52
28 21 31 00-0262 EA 23X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW23) .....	3,738.73	192.52
28 21 31 00-0263 EA 35X, Day/Night Camera, Spectra® IV Dome Drive (Pelco DD4CBW35) .....	4,001.82	192.52
28 21 31 00-0264 EA 35X, Color/Black And White Camera, Spectra® IV Horizon Dome Drive (Pelco DD4H35) .....	4,001.82	192.52
<b>28 21 31 00-0265 Accessories For Spectra® Pan/Tilt Camera Dome Systems</b> <small>(28 21 31 00-0143)</small>		
28 21 31 00-0266 EA Upgrade To Chrome Lower Dome (Pelco Spectra) .....	146.63	
28 21 31 00-0267 EA Upgrade To Gold Lower Dome (Pelco Spectra) .....	191.34	
28 21 31 00-0268 EA Wall Mount For Spectra® Systems (Pelco IWM-BK) .....	167.46	19.25
28 21 31 00-0269 EA 24 Volt Out, Wall Mount For Spectra® Systems (Pelco IWM24-BK) .....	409.75	19.25
28 21 31 00-0270 EA Wall Arm Mount For Spectra® Systems (Pelco IDM4018) .....	163.30	19.25
28 21 31 00-0271 EA Wall Arm Mount With Feed Through For Stainless Steel Spectra® IV Systems (Pelco IDM4012SS) .....	312.79	19.25
28 21 31 00-0272 EA Pole Mount Adapter For Spectra® Systems (Pelco PA402) .....	91.13	11.46
<b>28 21 31 00-0273 Camclosure®, Camera Dome Systems</b> <small>(28 21 31 00-0142)</small>		
<b>28 21 31 00-0274 Camclosure® IS Integrated, Camera Dome Systems</b> <small>(28 21 31 00-0273)</small>		
<b>28 21 31 00-0275 Camclosure® IS Integrated, Camera Dome Systems</b> <small>(28 21 31 00-0274)</small>		
<b>28 21 31 00-0276 High Resolution Color, Camclosure® IS Integrated, Camera Dome Systems</b> <small>(28 21 31 00-0275)</small>		
28 21 31 00-0277 EA 12 mm, Indoor Surface/In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-CH12) .....	831.22	231.03
28 21 31 00-0278 EA 9-22 mm, Indoor Surface/In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-CHV22) .....	893.62	231.03
28 21 31 00-0279 EA 12 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS110-CH12) .....	982.01	231.03
28 21 31 00-0280 EA 12 mm, Environmental In-Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS150-CH12) .....	982.01	231.03
<b>28 21 31 00-0281 Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome Systems</b> <small>(28 21 31 00-0275)</small>		
28 21 31 00-0282 EA 9-22 mm, Indoor Surface/In-Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS90B-CWV22) .....	993.45	231.03
28 21 31 00-0283 EA 9-22 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS111-CWV22) .....	1,074.56	231.03
28 21 31 00-0284 EA 9-22 mm, Environmental In-Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-CWV22) .....	1,074.56	231.03
<b>28 21 31 00-0285 Day/Night, Camclosure® IS Integrated, Camera Dome Systems</b> <small>(28 21 31 00-0275)</small>		
28 21 31 00-0286 EA 9-22 mm, Indoor Surface/In-Ceiling Mount, Day/Night, Camclosure® IS Integrated, White Camera Dome System (Pelco IS90-DNV22) .....	1,124.48	231.03
28 21 31 00-0287 EA 9-22 mm, Environmental Surface Mount, Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS111-DNV22) .....	1,325.18	231.03
28 21 31 00-0288 EA 9-22 mm, Environmental In-Ceiling Mount, Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-DNV22) .....	1,325.18	231.03
<b>28 21 31 00-0289 Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome Systems</b> <small>(28 21 31 00-0275)</small>		
28 21 31 00-0290 EA 9-22 mm, Indoor Surface/In-Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS90-DWV22) .....	1,220.15	231.03
28 21 31 00-0291 EA 9-22 mm, Environmental In-Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Camera Dome System (Pelco IS151-DWV22) .....	1,349.09	231.03
<b>28 21 31 00-0292 Camclosure® IS Integrated, Bullet Style Camera Systems</b> <small>(28 21 31 00-0274)</small>		
<b>28 21 31 00-0293 High Resolution Color, Camclosure® IS Integrated, Bullet Style Camera Systems</b> <small>(28 21 31 00-0292)</small>		
28 21 31 00-0294 EA 3.6 mm, Wall/Ceiling Mount, High Resolution Color, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-CH3.6) .....	873.75	154.02
<b>28 21 31 00-0295 Wide Dynamic Range Color, Camclosure® IS Integrated, Bullet Style Camera Systems</b> <small>(28 21 31 00-0292)</small>		
28 21 31 00-0296 EA 9-22 mm, Wall/Ceiling Mount, Wide Dynamic Range Color, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-CWV22) .....	991.25	154.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 21 31 00-0297</b> Day/Night, Camclosure® IS Integrated, Bullet Style Camera Systems <small>(28 21 31 00-0292)</small>		
28 21 31 00-0298 EA 9-22 mm, Wall/Ceiling Mount, Day/Night, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-DNV22).....	1,084.85	154.02
<b>28 21 31 00-0299</b> Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Bullet Style Camera Systems <small>(28 21 31 00-0292)</small>		
28 21 31 00-0300 EA 9-22 mm, Wall/Ceiling Mount, Wide Dynamic Range Day/Night, Camclosure® IS Integrated, Bullet Style Camera System (Pelco IS310-DWV22).....	1,131.64	154.02
<b>28 21 31 00-0301</b> Camclosure® IS Integrated Cameras <small>(28 21 31 00-0274)</small>		
28 21 31 00-0302 EA 12 mm, High Resolution Color, Camclosure® IS Integrated Camera (Pelco IS-CH12).....	634.57	154.02
28 21 31 00-0303 EA 9-22 mm, High Resolution Color, Camclosure® IS Integrated Camera (Pelco IS-CHV22).....	634.57	154.02
28 21 31 00-0304 EA 9-22 mm, Wide Dynamic Range Color, Camclosure® IS Integrated Camera (Pelco IS-CWV22).....	727.12	154.02
28 21 31 00-0305 EA 9-22 mm, Day/Night, Camclosure® IS Integrated Camera (Pelco IS-DNV22).....	977.74	154.02
28 21 31 00-0306 EA 9-22 mm, Wide Dynamic Range Day/Night, Camclosure® IS Integrated Camera (Pelco IS-DWV22).....	1,001.65	154.02
<b>28 21 31 00-0307</b> Camclosure® ICS Integrated, Camera Dome Systems <small>(28 21 31 00-0273)</small>		
<b>28 21 31 00-0308</b> Camclosure® ICS Integrated, Camera Dome Systems <small>(28 21 31 00-0307)</small>		
<b>28 21 31 00-0309</b> Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome Systems <small>(28 21 31 00-0308)</small>		
28 21 31 00-0310 EA 12 mm, Indoor Surface/In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS090B-CA12).....	728.27	231.03
28 21 31 00-0311 EA 12 mm, UTP, Indoor Surface/In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS090B-CA12T).....	772.99	231.03
28 21 31 00-0312 EA 12 mm, Environmental Surface Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS110-CA12).....	951.85	231.03
28 21 31 00-0313 EA 12 mm, Environmental In-Ceiling Mount, Standard Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS150-CA12).....	951.85	231.03
<b>28 21 31 00-0314</b> High Resolution Color, Camclosure® ICS Integrated, Camera Dome Systems <small>(28 21 31 00-0308)</small>		
28 21 31 00-0315 EA 3-9 mm, Environmental In-Ceiling Mount, High Resolution Color, Camclosure® ICS Integrated, Camera Dome System (Pelco ICS151-CDV39A).....	1,152.55	231.03
<b>28 21 31 00-0316</b> Camclosure® ICS Integrated, Bullet Style Camera Systems <small>(28 21 31 00-0307)</small>		
<b>28 21 31 00-0317</b> Standard Resolution, Camclosure® ICS Integrated, Bullet Style Camera Systems <small>(28 21 31 00-0316)</small>		
28 21 31 00-0318 EA 12 mm, Wall/Ceiling Mount, Standard Resolution, Camclosure® ICS Integrated, Bullet Style Camera System (Pelco ICS310-CA12).....	797.83	154.02
<b>28 21 31 00-0319</b> Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0307)</small>		
<b>28 21 31 00-0320</b> High Resolution Color, Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0319)</small>		
28 21 31 00-0321 EA 9-22 mm, High Resolution, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-CHV22).....	1,074.56	231.03
<b>28 21 31 00-0322</b> Wide Dynamic Range Color, Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0319)</small>		
28 21 31 00-0323 EA 9-22 mm, Wide Dynamic Range, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-CWV22).....	1,168.15	231.03
<b>28 21 31 00-0324</b> Day/Night, Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0319)</small>		
28 21 31 00-0325 EA 9-22 mm, Day/Night, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-DNV22).....	1,285.66	231.03
<b>28 21 31 00-0326</b> Wide Dynamic Range Day/Night, Camclosure® ICS Integrated, Wedge Style Camera Systems <small>(28 21 31 00-0319)</small>		
28 21 31 00-0327 EA 9-22 mm, Wide Dynamic Range Day/Night, Camclosure® ICS Integrated, Wedge Style Camera System (Pelco IS210-DWV22).....	1,332.46	231.03
<b>28 21 31 00-0328</b> Camclosure® IP Network, Camera Dome Systems <small>(28 21 31 00-0273)</small>		
<b>28 21 31 00-0329</b> Camclosure® IP Network, Camera Dome Systems <small>(28 21 31 00-0328)</small>		

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 21 31 00-0330 High Resolution Color, Camclosure® IP Network, Camera Dome Systems</b> <small>(28 21 31 00-0329)</small>		
28 21 31 00-0331 EA 3-9.5 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CHV9) .....	1,848.25	231.03
28 21 31 00-0332 EA 9-22 mm, Environmental Surface Mount, High Resolution Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CHV22) .....	1,848.25	231.03
<b>28 21 31 00-0333 Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome Systems</b> <small>(28 21 31 00-0329)</small>		
28 21 31 00-0334 EA 3-9.5 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CWV9) .....	1,977.19	231.03
28 21 31 00-0335 EA 9-22 mm, Environmental Surface Mount, Wide Dynamic Range Color, Camclosure® IP Network, Camera Dome System (Pelco IP111-CWV22) .....	1,977.19	231.03
<b>28 21 31 00-0336 Day/Night, Camclosure® IP Network, Camera Dome Systems</b> <small>(28 21 31 00-0329)</small>		
28 21 31 00-0337 EA 3-9.5 mm, Environmental Surface Mount, Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP111-DNV9) .....	2,175.82	231.03
28 21 31 00-0338 EA 9-22 mm, Environmental Surface Mount, Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP111-DNV22) .....	2,175.82	231.03
<b>28 21 31 00-0339 Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome Systems</b> <small>(28 21 31 00-0329)</small>		
28 21 31 00-0340 EA 3-9.5 mm, Environmental Surface Mount, Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP110-DWV9) .....	2,316.20	231.03
28 21 31 00-0341 EA 9-22 mm, Environmental Surface Mount, Wide Dynamic Range Day/Night, Camclosure® IP Network, Camera Dome System (Pelco IP110-DWV22) .....	2,316.20	231.03
<b>28 21 31 00-0342 Accessories For Camclosure® Camera Dome Systems</b> <small>(28 21 31 00-0273)</small>		
28 21 31 00-0343 EA 4S Gangbox Adapter Plate For ICS110 Camclosure® Systems (Pelco ICS110-AP) .....	41.82	11.56
28 21 31 00-0344 EA 4S Adapter Plate For ICS310 Camclosure® Systems (Pelco ICS310-AP) .....	41.82	11.56
28 21 31 00-0345 EA Sun Shield For ICS310 Camclosure® Systems (Pelco ICS310-SS) .....	57.23	19.25
28 21 31 00-0346 EA Conduit Adapter For ICS310 Camclosure® Systems (Pelco ICS310-COND) .....	86.35	19.25
28 21 31 00-0347 EA 2' x 2' Ceiling Panel For ICS150 Camclosure® Systems (Pelco ICS150-P) .....	85.49	11.56
28 21 31 00-0348 EA Pendant Mount Adapter For Camclosure® ICS110 Systems (Pelco ICS110-PG) .....	86.35	19.25
28 21 31 00-0349 EA Corner Mount Adapter For ICS200 Camclosure® Systems (Pelco ICS210-CM) .....	107.14	19.25
28 21 31 00-0350 EA Smoked, Surface Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO110A) .....	280.83	38.51
28 21 31 00-0351 EA Clear, Surface Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO111A) .....	280.83	38.51
28 21 31 00-0352 EA Smoked, In-Ceiling Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO150A) .....	280.83	38.51
28 21 31 00-0353 EA Clear, In-Ceiling Mount, Dome For Camclosure® ICS Systems (Pelco ICS-DO151A) .....	280.83	38.51
28 21 31 00-0354 EA Pendant Mount Adapter For Camclosure® IP Systems (Pelco IP110-P) .....	101.94	19.25
28 21 31 00-0355 EA Smoked Lower Dome For Surface Mount Camclosure® IP Systems (Pelco IP110-LD) .....	123.81	38.51
28 21 31 00-0356 EA Clear Lower Dome For Surface Mount Camclosure® IP Systems (Pelco IP111-LD) .....	123.81	38.51
28 21 31 00-0357 EA Smoked Lower Dome For Surface Mount Camclosure® IS Systems (Pelco IS110-LD) .....	123.81	38.51
28 21 31 00-0358 EA Clear Lower Dome For Surface Mount Camclosure® IS Systems (Pelco IS111-LD) .....	123.81	38.51
28 21 31 00-0359 EA Smoked Lower Dome For Ceiling Mount Camclosure® IS Systems (Pelco IS150-LD) .....	123.81	38.51
28 21 31 00-0360 EA Clear Lower Dome For Ceiling Mount Camclosure® IS Systems (Pelco IS151-LD) .....	123.81	38.51
28 21 31 00-0361 EA Ceiling Mount Enclosure Only, Environmental, Camclosure® IS Systems (Pelco IS150-ENC) .....	356.99	52.59
28 21 31 00-0362 EA Black Pendant Mount For Indoor Camclosure® IS Systems (Pelco IS90B-P) .....	74.91	19.25
28 21 31 00-0363 EA Black Pendant Wall Mount For Indoor Camclosure® IS Systems (Pelco IS90B-PW) .....	121.70	19.25
28 21 31 00-0364 EA White Pendant Mount For Indoor Camclosure® IS Systems (Pelco IS90-P) .....	74.91	19.25
28 21 31 00-0365 EA White Pendant Wall Mount For Indoor Camclosure® IS Systems (Pelco IS90-PW) .....	121.70	19.25
28 21 31 00-0366 EA Surface Mount Enclosure Only, Environmental, IP Camclosure® (Pelco IP110-ENC) .....	1,730.74	231.03
<b>28 21 31 00-0367 Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0141)</small>		
<b>28 21 31 00-0368 Esprit® CBZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0367)</small> Note: Includes powder coated aluminum pan/tilt enclosure, receiver, camera, lens, built in heater, window defroster/defogger, sun shroud, insulation blanket, 24V power supply and mounting hardware.		
<b>28 21 31 00-0369 EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0368)</small>		
<b>28 21 31 00-0370 Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0369)</small>		
28 21 31 00-0371 EA 10X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10N) .....	4,762.22	346.54
28 21 31 00-0372 EA 20X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20N) .....	5,387.20	346.54
28 21 31 00-0373 EA 30X, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30N) .....	6,253.44	346.54
28 21 31 00-0374 EA 10X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10PN) .....	4,896.37	346.54
28 21 31 00-0375 EA 20X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20PN) .....	5,549.42	346.54
28 21 31 00-0376 EA 30X, Preset Positioning, Pedestal Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30PN) .....	6,415.66	346.54



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0377				<b>Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0369)</small>		
28 21 31 00-0378	EA			10X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10W).....	4,804.85	346.54
28 21 31 00-0379	EA			20X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20W).....	5,429.83	346.54
28 21 31 00-0380	EA			30X, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30W).....	6,296.07	346.54
28 21 31 00-0381	EA			10X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ10PW) .....	4,940.04	346.54
28 21 31 00-0382	EA			20X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ20PW) .....	5,592.06	346.54
28 21 31 00-0383	EA			30X, Preset Positioning, Wall Mount, EDR, High Resolution Color, Esprit® CBZ, Pan/Tilt Camera System (Pelco ES3012-2CBZ30PW) .....	6,458.30	346.54
28 21 31 00-0384				<b>Esprit® CLZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0367)</small>		
28 21 31 00-0385				<b>DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0384)</small>		
28 21 31 00-0386				<b>Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0385)</small>		
28 21 31 00-0387	EA			10X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10N).....	4,924.44	346.54
28 21 31 00-0388	EA			20X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20N).....	5,549.42	346.54
28 21 31 00-0389	EA			30X, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30N).....	6,415.66	346.54
28 21 31 00-0390	EA			10X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10PN).....	5,058.59	346.54
28 21 31 00-0391	EA			20X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20PN).....	5,711.65	346.54
28 21 31 00-0392	EA			30X, Preset Positioning, Pedestal Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30PN).....	6,577.88	346.54
28 21 31 00-0393				<b>Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0385)</small>		
28 21 31 00-0394	EA			10X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10W).....	4,967.08	346.54
28 21 31 00-0395	EA			20X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20W).....	5,592.06	346.54
28 21 31 00-0396	EA			30X, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30W).....	6,458.30	346.54
28 21 31 00-0397	EA			10X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ10PW).....	5,102.27	346.54
28 21 31 00-0398	EA			20X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ20PW).....	5,754.28	346.54
28 21 31 00-0399	EA			30X, Preset Positioning, Wall Mount, DSS, High Resolution Color, Esprit® CLZ, Pan/Tilt Camera System (Pelco ES3012-2CLZ30PW).....	6,620.52	346.54
28 21 31 00-0400				<b>Esprit® AJZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0367)</small>		
28 21 31 00-0401				<b>High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0400)</small>		
28 21 31 00-0402				<b>Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0401)</small>		
28 21 31 00-0403	EA			6 x 10, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10N) .....	4,653.03	346.54
28 21 31 00-0404	EA			5.6 x 20, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20N).....	5,278.01	346.54
28 21 31 00-0405	EA			5.5 x 30, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30N) .....	6,144.25	346.54
28 21 31 00-0406	EA			6 x 10, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10PN).....	4,788.22	346.54
28 21 31 00-0407	EA			5.6 x 20, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20PN).....	5,440.23	346.54
28 21 31 00-0408	EA			5.5 x 30, Preset Positioning, Preset Positioning, Pedestal Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30PN) .....	6,306.47	346.54
28 21 31 00-0409				<b>Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera Systems</b> <small>(28 21 31 00-0401)</small>		
28 21 31 00-0410	EA			6 x 10, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10W).....	4,696.71	346.54
28 21 31 00-0411	EA			5.6 x 20, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20W).....	5,320.65	346.54
28 21 31 00-0412	EA			5.5 x 30, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30W).....	6,187.92	346.54
28 21 31 00-0413	EA			6 x 8, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ8PW) .....	4,726.86	346.54
28 21 31 00-0414	EA			6 x 10, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ10W).....	4,830.85	346.54
28 21 31 00-0415	EA			5.6 x 20, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ20PW).....	5,482.87	346.54
28 21 31 00-0416	EA			5.5 x 30, Preset Positioning, Wall Mount, High Resolution Color, Esprit® AJZ, Pan/Tilt Camera System (Pelco ES3012-2AJZ30PW) .....	6,350.15	346.54

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0417	Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0367)	
28 21 31 00-0418	Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0417)	
28 21 31 00-0419	Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0418)	
28 21 31 00-0420 EA	5.6 x 20, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20N)	5,536.94 346.54
28 21 31 00-0421 EA	5.5 x 30, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30N)	6,403.18 346.54
28 21 31 00-0422 EA	6 x 10, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10PN)	5,047.15 346.54
28 21 31 00-0423 EA	5.6 x 20, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20PN)	5,699.17 346.54
28 21 31 00-0424 EA	5.5 x 30, Preset Positioning, Pedestal Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30PN)	6,565.41 346.54
28 21 31 00-0425	Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera Systems (28 21 31 00-0418)	
28 21 31 00-0426 EA	6 x 10, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10W)	4,955.64 346.54
28 21 31 00-0427 EA	5.6 x 20, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20W)	5,579.58 346.54
28 21 31 00-0428 EA	5.5 x 30, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30W)	6,446.86 346.54
28 21 31 00-0429 EA	6 x 10, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ10PW)	5,089.79 346.54
28 21 31 00-0430 EA	5.6 x 20, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ20PW)	5,741.80 346.54
28 21 31 00-0431 EA	5.5 x 30, Preset Positioning, Wall Mount, Day/Night, Esprit® AMZ, Pan/Tilt Camera System (Pelco ES3012-2AMZ30PW)	6,609.08 346.54
28 21 31 00-0432	Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0367)	
28 21 31 00-0433	Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0432)	
28 21 31 00-0434	Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0433)	
28 21 31 00-0435 EA	5.5 x 30, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30N)	6,541.49 346.54
28 21 31 00-0436 EA	6 x 10, Preset Positioning, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10PN)	5,184.42 346.54
28 21 31 00-0437 EA	5.5 x 30, Preset Positioning, Pedestal Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30PN)	6,703.71 346.54
28 21 31 00-0438	Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera Systems (28 21 31 00-0433)	
28 21 31 00-0439 EA	6 x 10, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10W)	5,092.91 346.54
28 21 31 00-0440 EA	5.5 x 30, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30W)	6,585.16 346.54
28 21 31 00-0441 EA	6 x 10, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ10PW)	5,228.09 346.54
28 21 31 00-0442 EA	5.6 x 20, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ20PW)	5,880.11 346.54
28 21 31 00-0443 EA	5.5 x 30, Preset Positioning, Wall Mount, Day/Night, Esprit® KWZ, Pan/Tilt Camera System (Pelco ES3012-2KWZ30PW)	6,747.39 346.54
28 21 31 00-0444	Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0367)	
28 21 31 00-0445	Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0444)	
28 21 31 00-0446	Pedestal Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0445)	
28 21 31 00-0447 EA	16X, Pedestal Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC16-2N)	5,528.63 346.54
28 21 31 00-0448	Wall Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0445)	
28 21 31 00-0449 EA	16X, Wall Mount, Standard Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC16-2W)	5,571.26 346.54
28 21 31 00-0450	High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0444)	
28 21 31 00-0451	Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0450)	
28 21 31 00-0452 EA	22X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC22-2N)	6,541.49 346.54
28 21 31 00-0453 EA	24X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW24-2N)	6,329.35 346.54
28 21 31 00-0454 EA	35X, Pedestal Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW35-2N)	7,176.87 346.54
28 21 31 00-0455	Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera Systems (28 21 31 00-0450)	
28 21 31 00-0456 EA	22X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PC22-2W)	6,583.08 346.54
28 21 31 00-0457 EA	24X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW24-2W)	6,329.35 346.54
28 21 31 00-0458 EA	35X, Wall Mount, High Resolution Color, Esprit® IOC, Pan/Tilt Camera System (Pelco ES30PCBW35-2W)	7,223.66 346.54





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0459				Esprit® IOP, Pan/Tilt Camera Systems (28 21 31 00-0367)		
28 21 31 00-0460				High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems (28 21 31 00-0459)		
28 21 31 00-0461				Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems (28 21 31 00-0460)		
28 21 31 00-0462	EA			16X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C16-2N).....	4,281.78	346.54
28 21 31 00-0463	EA			22X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C22-2N).....	5,295.69	346.54
28 21 31 00-0464	EA			24X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW24-2N).....	5,086.67	346.54
28 21 31 00-0465	EA			35X, Pedestal Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW35-2N).....	5,747.00	346.54
28 21 31 00-0466				Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera Systems (28 21 31 00-0460)		
28 21 31 00-0467	EA			16X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C16-2W).....	4,323.38	346.54
28 21 31 00-0468	EA			22X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30C22-2W).....	5,338.32	346.54
28 21 31 00-0469	EA			24X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW24-2W).....	5,129.30	346.54
28 21 31 00-0470	EA			35X, Wall Mount, High Resolution Color, Esprit® IOP, Pan/Tilt Camera System (Pelco ES30CBW35-2W).....	5,793.80	346.54
28 21 31 00-0471				Esprit® Thermal, Pan/Tilt Camera Systems (28 21 31 00-0367)		
28 21 31 00-0472				Esprit® Thermal, Pan/Tilt Camera Systems (28 21 31 00-0471)		
28 21 31 00-0473				Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera Systems (28 21 31 00-0472)		
28 21 31 00-0474	EA			14.25 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3014TI-2N).....	26,801.86	346.54
28 21 31 00-0475	EA			35 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3035TI-2N).....	28,811.99	346.54
28 21 31 00-0476	EA			50 mm, Pedestal Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3050TI-2N).....	29,486.88	346.54
28 21 31 00-0477				Wall Mount, Esprit® Thermal, Pan/Tilt Camera Systems (28 21 31 00-0472)		
28 21 31 00-0478	EA			14.25 mm, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3014TI-2W).....	26,845.54	346.54
28 21 31 00-0479	EA			35 mm, 30 Hertz, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3035TI-2W).....	28,854.62	346.54
28 21 31 00-0480	EA			50 mm, Wall Mount, Esprit® Thermal, Pan/Tilt Camera System (Pelco ES3050TI-2W).....	29,529.52	346.54
28 21 31 00-0481				Accessories For Esprit® Pan/Tilt Camera Systems (28 21 31 00-0367)		
28 21 31 00-0482	EA			Wiper Blade Replacement For Esprit® Systems (Pelco ES-REPLBLADE).....	13.21	3.85
28 21 31 00-0483	EA			Marine Mounting Kit For Esprit® Systems (Pelco ES-MKIT).....	74.91	19.25
28 21 31 00-0484	EA			Indoor/Outdoor Wall Mount For Esprit® Systems (Pelco EWM).....	112.34	19.25
28 21 31 00-0485	EA			Wall Mount For High Security Enclosures (Pelco HSWM12).....	140.42	19.25
28 21 31 00-0486	EA			Ground Isolation Transformer (Pelco GIT100).....	429.78	52.59
28 21 31 00-0487	EA			High Security, Indoor Wedge Style Enclosure (Pelco HS2100).....	626.80	52.59
28 21 31 00-0488	EA			High Security, Indoor 10" Length Enclosure (Pelco HS3000).....	505.69	52.59
28 21 31 00-0489	EA			High Security, Indoor Medium Corner Mount Enclosure (Pelco HS1500).....	722.13	52.59
28 21 31 00-0490	EA			High Security, Ceiling Mount, Lexan Window, Aluminum Enclosure (Pelco HS8080).....	401.70	52.59
28 21 31 00-0491	EA			High Security, Ceiling Mount, Lexan Window, Steel Enclosure (Pelco HS8134).....	1,019.82	52.59
28 21 31 00-0492	EA			Bullet-Resistant, Outdoor Enclosure (Pelco HS4514).....	1,484.24	52.59
28 21 31 00-0493	EA			Bullet-Resistant, Outdoor Enclosure With Mount (Pelco HS4514/MT).....	1,755.65	52.59
28 21 31 00-0494	EA			24X, Color/Black And White, Esprit® Camera Module (Pelco ESIOPCBW24).....	1,817.01	52.59
28 21 31 00-0495	EA			35X, Color/Black And White, Esprit® Camera Module (Pelco ESIOPCBW35).....	1,913.72	52.59
28 21 31 00-0496	EA			24 Volt AC, Esprit® Pan Tilt Enclosure Receiver (Pelco ES3012-2).....	2,551.78	52.60
28 21 31 00-0497	EA			24 Volt AC, Pedestal Mount, Esprit® Pan/Tilt Enclosure Receiver (Pelco ES3012-2N).....	2,581.64	52.59
28 21 31 00-0498	EA			24 Volt AC, Wall Mount, Esprit® Pan/Tilt Enclosure Receiver (Pelco ES3012-2W).....	2,610.31	52.59
28 21 31 00-0499	EA			30X, 24 Volt AC, DSS, Color High Resolution, Esprit® CLZ Pan/Tilt Camera System (Pelco ES3012-2CLZ30).....	5,901.73	52.59
28 21 31 00-0500	EA			30X, 24 Volt AC, Preset Positioning, DSS, Color High Resolution, Esprit® CLZ Pan/Tilt Camera System (Pelco ES3012-2CLZ30P).....	6,063.96	52.59
28 21 31 00-0501	EA			Esprit® Camera Pole Mount Adapter (Pelco EPM).....	123.96	12.39
28 21 31 00-0502	EA			Pole Mount Adapter For Esprit® Systems (Pelco EPM).....	123.96	12.39
28 21 31 00-0503				Camera Lenses (28 21 31 00-0002)		
28 21 31 00-0504				Fixed Focus Camera Lenses (28 21 31 00-0503) Note: 1/3" format and manual focus.		
28 21 31 00-0505				Manual Iris, Fixed Focus Camera Lenses (28 21 31 00-0504)		
28 21 31 00-0506	EA			2.3 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA2.3).....	184.60	18.07
28 21 31 00-0507	EA			2.8 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA2.8).....	155.48	18.07
28 21 31 00-0508	EA			4 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA4).....	140.92	18.07
28 21 31 00-0509	EA			8 mm, Manual Iris, Fixed Focus Camera Lens (Pelco 13FA8).....	137.80	18.07
28 21 31 00-0510				Direct Drive Auto Iris, Fixed Focus Camera Lenses (28 21 31 00-0504) Note: Includes spot filter. Excludes amplifier.		
28 21 31 00-0511	EA			2.3 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD2.3).....	227.24	18.07
28 21 31 00-0512	EA			2.8 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD2.8).....	184.60	18.07
28 21 31 00-0513	EA			4 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD4).....	174.20	18.07
28 21 31 00-0514	EA			8 mm, Direct Drive Auto Iris, Fixed Focus Camera Lens (Pelco 13FD8).....	128.44	18.07

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 21 31 00-0515 Video Drive Auto Iris, Fixed Focus Camera Lenses</b> (28 21 31 00-0504) Note: Includes LDC100 adapter to convert DC auto iris to video drive.		
28 21 31 00-0516 EA 2.3 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV2.3S) .....	265.71	18.07
28 21 31 00-0517 EA 2.8 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV2.8S) .....	222.04	18.07
28 21 31 00-0518 EA 4 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV4S) .....	211.64	18.07
28 21 31 00-0519 EA 8 mm, Video Drive Auto Iris, Fixed Focus Camera Lenses (Pelco 13FV8S) .....	203.32	18.07
<b>28 21 31 00-0520 Varifocal Camera Lenses</b> (28 21 31 00-0503) Note: 1/3" format and manual focus and zoom.		
<b>28 21 31 00-0521 Manual Iris, Varifocal Camera Lenses</b> (28 21 31 00-0520)		
28 21 31 00-0522 EA 1.6-3.4 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA1-3).....	259.60	18.07
28 21 31 00-0523 EA 2.5-6 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA2.5-6).....	213.72	18.07
28 21 31 00-0524 EA 2.8-12 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA2.8-12).....	169.00	18.07
28 21 31 00-0525 EA 3-8 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA3-8).....	150.28	18.07
28 21 31 00-0526 EA 5.5-82.5 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5.5-82.5).....	369.70	18.07
28 21 31 00-0527 EA 5-40 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5-40).....	204.41	18.07
28 21 31 00-0528 EA 5-50 mm, Manual Iris, Varifocal Camera Lens (Pelco 13VA5-50).....	216.96	18.07
<b>28 21 31 00-0529 Direct Drive Auto Iris, Varifocal Camera Lenses</b> (28 21 31 00-0520) Note: Includes spot filter.		
28 21 31 00-0530 EA 1.6-3.4 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD1-3).....	255.42	18.07
28 21 31 00-0531 EA 2.5-6 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD2.5-6).....	226.99	18.07
28 21 31 00-0532 EA 2.8-12 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD2.8-12).....	176.82	18.07
28 21 31 00-0533 EA 3-8 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD3-8).....	135.01	18.07
28 21 31 00-0534 EA 5.5-82.5 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD5.5-82.5).....	401.94	18.07
28 21 31 00-0535 EA 5-50 mm, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VD5-50).....	252.91	18.07
<b>28 21 31 00-0536 Video Drive Auto Iris, Varifocal Camera Lenses</b> (28 21 31 00-0520) Note: Includes spot filter.		
28 21 31 00-0537 EA 1.6-3.4 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV1-3S).....	354.10	18.07
28 21 31 00-0538 EA 2.5-6 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV2.5-6S).....	315.63	18.07
28 21 31 00-0539 EA 3-8 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV3-8S).....	195.00	18.07
28 21 31 00-0540 EA 5-50 mm, Video Drive Auto Iris, Varifocal Camera Lens (Pelco 13VV5-50S).....	349.94	18.07
<b>28 21 31 00-0541 Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lenses</b> (28 21 31 00-0520)		
28 21 31 00-0542 EA 3-8.5 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VDIR3-8.5).....	154.24	18.07
28 21 31 00-0543 EA 7.5-50 mm, Infrared Corrected, Direct Drive Auto Iris, Varifocal Camera Lens (Pelco 13VDIR7.5-50).....	225.32	18.07
<b>28 21 31 00-0544 Motorized Zoom Camera Lenses</b> (28 21 31 00-0503) Note: 1/3" format.		
<b>28 21 31 00-0545 Manual Iris, Motorized Zoom Camera Lenses</b> (28 21 31 00-0544)		
28 21 31 00-0546 EA 8X Zoom, 6-48 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X8).....	631.76	18.07
28 21 31 00-0547 EA 10X Zoom, 6-60 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X10).....	785.66	18.07
28 21 31 00-0548 EA 15X Zoom, 6-90 mm, Manual Iris, Motorized Zoom Camera Lens (Pelco 13ZM6X15).....	836.62	18.07
<b>28 21 31 00-0549 Direct Drive Auto Iris, Motorized Zoom Camera Lenses</b> (28 21 31 00-0544) Note: Includes spot filter.		
28 21 31 00-0550 EA 6X Zoom, 6-48 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X8).....	577.37	18.07
28 21 31 00-0551 EA 10X Zoom, 6-60 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X10).....	665.17	18.07
28 21 31 00-0552 EA 15X Zoom, 6-90 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD6X15).....	922.93	18.07
28 21 31 00-0553 EA 20X Zoom, 5.6-112 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD5.6X20).....	1,131.78	18.07
28 21 31 00-0554 EA 30X Zoom, 5.5-165 mm, Direct Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZD5.5X30).....	2,233.08	18.07
<b>28 21 31 00-0555 Video Drive Auto Iris, Motorized Zoom Camera Lenses</b> (28 21 31 00-0544) Note: Includes spot filter.		
28 21 31 00-0556 EA 8X Zoom, 6-48 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X8S).....	647.35	18.07
28 21 31 00-0557 EA 10X Zoom, 6-60 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X10S).....	767.98	18.07
28 21 31 00-0558 EA 15X Zoom, 6-90 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV6X15S).....	961.40	18.07
28 21 31 00-0559 EA 20X Zoom, 5.6-112 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV5.6X20S).....	1,392.96	18.07
28 21 31 00-0560 EA 30X Zoom, 5.5-165 mm, Video Drive Auto Iris, Motorized Zoom Camera Lens (Pelco 13ZV5.5X30S).....	2,259.20	18.07
<b>28 21 31 00-0561 Camera Power Supplies</b> (28 21 31 00-0002)		
28 21 31 00-0562 EA 20 VA, 24 Volt AC, Camera Power Transformer (Pelco TF2000).....	49.52	15.41
28 21 31 00-0563 EA 50 VA, 24 Volt AC, Camera Power Transformer (Pelco TF9000).....	80.72	15.41
28 21 31 00-0564 EA 2 Amperes, 4 Outputs, Camera Power Supply (Pelco MCS4-2).....	333.38	30.80
28 21 31 00-0565 EA 5 Amperes, 8 Outputs, Camera Power Supply (Pelco MCS8-5).....	389.27	46.21
28 21 31 00-0566 EA 10 Amperes, 16 Outputs, Camera Power Supply (Pelco MCS16-10).....	442.65	61.61
For Switchable Outputs, Add	191.66	
28 21 31 00-0567 EA 20 Amperes, 16 Outputs, Camera Power Supply (Pelco MCS16-20).....	498.54	77.01
For Switchable Outputs, Add	206.71	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0568				<b>Camera Illuminators</b> (28 21 31 00-0002)		
28 21 31 00-0569				<b>Camera Illuminators</b> (28 21 31 00-0568) Note: Includes lamp and mounting bracket.		
28 21 31 00-0570	EA			Narrow Spot Lamp, Low Light Level Camera Illuminator (Pelco LL27MF) .....	1,654.74	30.80
28 21 31 00-0571	EA			Infrared Narrow Spot Lamp, Low Light Level Camera Illuminator (Pelco LL27NS) .....	1,654.74	30.80
28 21 31 00-0572	EA			Flood Lamp, Low Light Level Camera Illuminator (Pelco LL27WF) .....	1,654.74	30.80
28 21 31 00-0573				<b>Camera Illuminator Accessories</b> (28 21 31 00-0568)		
28 21 31 00-0574	EA			Removal And Replacement Of Lamp For Low Light Level Camera Illuminator (Pelco PAR56) .....	150.00	30.80
28 21 31 00-0575				<b>Camera Receivers</b> (28 21 31 00-0002)		
28 21 31 00-0576	EA			24 Volt AC, Coaxitron® Outdoor Camera Receiver With Preset Positioning (Pelco CX9024RX-PP) .....	1,638.14	52.59
28 21 31 00-0577	EA			120 Volt AC, Coaxitron® Outdoor Camera Receiver With Preset Positioning (Pelco CX9115RX-PP) .....	1,638.14	52.59
28 21 31 00-0578				<b>Pan And Tilt Drives</b> (28 21 31 00-0002)		
28 21 31 00-0579	EA			15 LB Load, 24 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT270-24P) .....	1,180.46	115.51
28 21 31 00-0580	EA			40 LB Load, 24/120 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT570-24P) .....	1,484.11	115.51
				<i>For Preset Positioning, Add</i>	165.00	
28 21 31 00-0581	EA			100 LB Load, 120 Volt AC, Outdoor Pan And Tilt Drive (Pelco PT1250P) .....	3,077.24	115.51
				<i>For Preset Positioning, Add</i>	165.00	
28 21 31 00-0582	EA			100 LB Load, 120 Volt DC, Outdoor Pan And Tilt Drive (Pelco PT1250DC) .....	3,508.79	115.51
				<i>For Preset Positioning, Add</i>	165.00	
28 21 31 00-0583	EA			100 LB Load, 120 Volt DC, 360 Degree Outdoor Pan And Tilt Drive (Pelco PT1280SL) .....	4,051.62	115.51
				<i>For Preset Positioning, Add</i>	165.00	
28 21 31 00-0584	EA			100 LB Load, 120 Volt DC, Explosion Proof Outdoor Pan And Tilt Drive (Pelco PT1260EX) .....	5,205.91	115.51
				<i>For Preset Positioning, Add</i>	165.00	
28 21 31 00-0585				<b>Scanners</b> (28 21 31 00-0002)		
28 21 31 00-0586	EA			35 LB Load, 24 Volt AC, Indoor/Outdoor Scanner (Pelco PS20-24) .....	1,339.56	115.51
				<i>For Wall Mount, Add</i>	39.05	
				<i>For Pressure Sensor Alarm, Add</i>	51.15	
28 21 31 00-0587	EA			35 LB Load, 120 Volt AC, Indoor/Outdoor Scanner (Pelco PS20) .....	1,405.08	115.51
				<i>For Wall Mount, Add</i>	39.05	
				<i>For Pressure Sensor Alarm, Add</i>	51.15	
28 21 31 00-0588				<b>Camera Monitors</b> (28 21 31 00-0001)		
28 21 31 00-0589				<b>Camera Monitors</b> (28 21 31 00-0588)		
28 21 31 00-0590				<b>Monochrome Camera Monitors</b> (28 21 31 00-0589)		
28 21 31 00-0591	EA			9" Monochrome Camera Monitor (Pelco PMM9A) .....	261.47	23.10
28 21 31 00-0592	EA			12" Monochrome Camera Monitor (Pelco PMM12A) .....	297.87	23.10
28 21 31 00-0593	EA			15" Monochrome Camera Monitor (Pelco PMM15A) .....	451.77	23.10
28 21 31 00-0594	EA			20" Monochrome Camera Monitor (Pelco PMM20A) .....	721.11	23.10
28 21 31 00-0595				<b>Color Camera Monitors</b> (28 21 31 00-0589)		
28 21 31 00-0596	EA			9", High Resolution Color, Camera Monitor (Pelco PMC9A) .....	812.62	23.10
28 21 31 00-0597	EA			15", High Resolution Color, Camera Monitor (Pelco PMCS15A) .....	660.79	23.10
28 21 31 00-0598	EA			17", High Resolution Color, Camera Monitor (Pelco PMCS17A) .....	956.12	23.10
28 21 31 00-0599	EA			19", High Resolution Color, Camera Monitor (Pelco PMCS19A) .....	1,268.09	23.10
28 21 31 00-0600				<b>LCD Camera Monitors</b> (28 21 31 00-0588)		
28 21 31 00-0601				<b>VGA Signal, Color LCD Camera Monitors (Pelco 200 Series)</b> (28 21 31 00-0600) Note: Displays VGA computer signals.		
28 21 31 00-0602	EA			17", VGA Signal, High Resolution Color, LCD Camera Monitor (Pelco PMCL217) .....	917.65	23.10
28 21 31 00-0603	EA			19", VGA Signal, High Resolution Color, LCD Camera Monitor (Pelco PMCL219) .....	1,192.18	23.10
28 21 31 00-0604				<b>Multimode, Color LCD Camera Monitors (Pelco 300 Series)</b> (28 21 31 00-0600) Note: Displays VGA computer signals and/or composite video signals.		
28 21 31 00-0605	EA			15", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL315) .....	1,042.43	23.10
28 21 31 00-0606	EA			17", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL317) .....	1,246.25	23.10
28 21 31 00-0607	EA			19", Multimode, High Resolution Color, LCD Camera Monitor (Pelco PMCL319) .....	1,531.19	23.10
28 21 31 00-0608				<b>Multimode With PIP, Color LCD Camera Monitors (Pelco 400 Series)</b> (28 21 31 00-0600) Note: Displays VGA computer signals and/or composite video signals. Includes picture in picture option.		
28 21 31 00-0609	EA			15", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL415) .....	1,335.69	23.10
28 21 31 00-0610	EA			17", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL417) .....	1,547.83	23.10
28 21 31 00-0611	EA			19", Multimode With PIP, High Resolution Color, LCD Camera Monitor (Pelco PMCL419) .....	1,939.87	23.10

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 21 31 00-0612</b> <b>Camera Monitor Mounting Accessories</b> <small>(28 21 31 00-0588)</small>		
<b>28 21 31 00-0613</b> <b>Camera Monitor Mounts</b> <small>(28 21 31 00-0612)</small>		
28 21 31 00-0614    EA    Up To 14", Camera Monitor Mount (Pelco).....	321.59	30.80
28 21 31 00-0615    EA    >14" To 17", Camera Monitor Mount (Pelco).....	372.54	30.80
28 21 31 00-0616    EA    >17" To 21", Camera Monitor Mount (Pelco).....	434.93	30.80
<b>28 21 31 00-0617</b> <b>Camera Monitor Rack Mount Kits</b> <small>(28 21 31 00-0612)</small>		
28 21 31 00-0618    EA    Camera Monitor Rack Mount Kit (Pelco PMCL-RM).....	199.92	30.80
<b>28 21 31 00-0619</b> <b>Video Transmission Equipment</b> <small>(28 21 31 00-0001)</small>		
<b>28 21 31 00-0620</b> <b>UTP Cable, Video Transmission Equipment</b> <small>(28 21 31 00-0619)</small>		
<b>28 21 31 00-0621</b> <b>UTP Cable, Active Video Receivers</b> <small>(28 21 31 00-0620)</small>		
28 21 31 00-0622    EA    Single Channel, UTP Cable, Active Video Receiver (Pelco TW3001AR).....	404.58	38.51
28 21 31 00-0623    EA    Four Channel, UTP Cable, Active Video Receiver (Pelco TW3004AR).....	1,354.01	38.51
28 21 31 00-0624    EA    Eight Channel, 4 Outputs, UTP Cable, Active Video Receiver (Pelco TW3008AR-4-US).....	2,648.68	38.51
28 21 31 00-0625    EA    Sixteen Channel, UTP Cable, Active Video Receiver (Pelco TW3016AR1-US).....	4,340.60	38.51
28 21 31 00-0626    EA    Sixteen Channel, 2 Outputs, UTP Cable, Active Video Receiver (Pelco TW3016AR-2-US).....	5,065.41	38.51
<b>28 21 31 00-0627</b> <b>UTP Cable, Passive Video Transceivers</b> <small>(28 21 31 00-0620)</small>		
28 21 31 00-0628    EA    Single Channel, UTP Cable, Passive Video Transceiver (Pelco TW3001P).....	130.04	38.51
28 21 31 00-0629    EA    Four Channel, UTP Cable, Passive Video Transceiver (Pelco TW3004P).....	404.58	38.51
28 21 31 00-0630    EA    Eight Channel, UTP Cable, Passive Video Transceiver (Pelco TW3008P).....	733.19	38.51
28 21 31 00-0631    EA    Sixteen Channel, UTP Cable, Passive Video Transceiver (Pelco TW3016P).....	1,380.00	38.51
28 21 31 00-0632    EA    Thirty Two Channel, UTP Cable, Passive Video Transceiver (Pelco TW3032P).....	2,684.04	38.51
<b>28 21 31 00-0633</b> <b>UTP Cable, Active Video Transmitters</b> <small>(28 21 31 00-0620)</small>		
28 21 31 00-0634    EA    Single Channel, UTP Cable, Active Video Transmitter (Pelco TW3001AT).....	422.26	38.51
<b>28 21 31 00-0635</b> <b>Fiber Optics, Video Transmission Equipment</b> <small>(28 21 31 00-0619)</small>		
<b>28 21 31 00-0636</b> <b>Data Only, Fiber Optics Transmission Equipment</b> <small>(28 21 31 00-0635)</small>		
<b>28 21 31 00-0637</b> <b>Bidirectional Data, Fiber Optics Transmitters</b> <small>(28 21 31 00-0636)</small>		
28 21 31 00-0638    EA    Single-Channel, Single Mode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8101AS).....	2,387.73	77.01
28 21 31 00-0639    EA    Single-Channel, Multimode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8101AM).....	996.34	77.01
28 21 31 00-0640    EA    Four-Channel, Single Mode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8104S).....	1,754.43	77.01
28 21 31 00-0641    EA    Four-Channel, Multimode, Bidirectional Data, Fiber Optics Transmitter (Pelco FT8104M).....	1,220.96	77.01
<b>28 21 31 00-0642</b> <b>Bidirectional Data, Fiber Optics Receivers</b> <small>(28 21 31 00-0636)</small>		
28 21 31 00-0643    EA    Single-Channel, Single Mode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8101AS).....	2,387.73	77.01
28 21 31 00-0644    EA    Single-Channel, Multimode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8101AM).....	996.34	77.01
28 21 31 00-0645    EA    Four-Channel, Single Mode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8104S).....	1,754.43	77.01
28 21 31 00-0646    EA    Four-Channel, Multimode, Bidirectional Data, Fiber Optics Receiver (Pelco FR8104M).....	1,220.96	77.01
<b>28 21 31 00-0647</b> <b>Video Only, Fiber Optics Transmission Equipment</b> <small>(28 21 31 00-0635)</small>		
<b>28 21 31 00-0648</b> <b>Digitally Encoded Video, Fiber Optics Transmitters</b> <small>(28 21 31 00-0647)</small>		
28 21 31 00-0649    EA    Single-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8301AS).....	1,079.53	77.01
28 21 31 00-0650    EA    Single-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8301AM).....	490.95	77.01
28 21 31 00-0651    EA    Four-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8304S).....	2,929.51	77.01
28 21 31 00-0652    EA    Four-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8304M).....	1,775.22	77.01
28 21 31 00-0653    EA    Eight-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8308S).....	4,776.38	77.01
28 21 31 00-0654    EA    Eight-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8308M).....	3,977.73	77.01
28 21 31 00-0655    EA    Sixteen-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8316S).....	11,806.10	77.01
28 21 31 00-0656    EA    Sixteen-Channel, Multimode, Digitally Encoded Video, Fiber Optics Transmitter (Pelco FT8316M).....	10,511.42	77.01
<b>28 21 31 00-0657</b> <b>Digitally Encoded Video, Fiber Optics Receivers</b> <small>(28 21 31 00-0647)</small>		
28 21 31 00-0658    EA    Single-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8301AS).....	1,079.53	77.01
28 21 31 00-0659    EA    Single-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8301AM).....	490.95	77.01
28 21 31 00-0660    EA    Two-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8302AS).....	1,817.86	77.01
28 21 31 00-0661    EA    Two-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8302AM).....	758.20	77.01
28 21 31 00-0662    EA    Four-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8304S).....	2,929.51	77.01
28 21 31 00-0663    EA    Four-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8304M).....	1,775.22	77.01
28 21 31 00-0664    EA    Eight-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8308S).....	4,776.38	77.01
28 21 31 00-0665    EA    Eight-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8308M).....	3,977.73	77.01
28 21 31 00-0666    EA    Sixteen-Channel, Single Mode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8316S).....	11,806.10	77.01
28 21 31 00-0667    EA    Sixteen-Channel, Multimode, Digitally Encoded Video, Fiber Optics Receiver (Pelco FR8316M).....	10,511.42	77.01



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0668				<b>Video And Data, Fiber Optics Transmission Equipment</b> <small>(28 21 31 00-0635)</small>		
28 21 31 00-0669				<b>Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitters</b> <small>(28 21 31 00-0668)</small>		
28 21 31 00-0670	EA			Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85011AS).....	1,835.54	77.01
28 21 31 00-0671	EA			Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85011AM).....	1,108.65	77.01
28 21 31 00-0672	EA			Four-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85041S).....	4,226.27	77.01
28 21 31 00-0673	EA			Four-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85041M).....	3,663.68	77.01
28 21 31 00-0674	EA			Eight-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85081S).....	6,818.74	77.01
28 21 31 00-0675	EA			Eight-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Transmitter (Pelco FT85081M).....	4,953.16	77.01
28 21 31 00-0676				<b>Digitally Encoded Video With Bidirectional Data, Fiber Optics Receivers</b> <small>(28 21 31 00-0668)</small>		
28 21 31 00-0677	EA			Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85011AS).....	1,835.54	77.01
28 21 31 00-0678	EA			Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85011AM).....	1,108.65	77.01
28 21 31 00-0679	EA			Four-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85041S).....	4,226.27	77.01
28 21 31 00-0680	EA			Four-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85041M).....	3,663.68	77.01
28 21 31 00-0681	EA			Eight-Channel, Single Mode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85081S).....	6,818.74	77.01
28 21 31 00-0682	EA			Eight-Channel, Multimode, Digitally Encoded Video With Bidirectional Data, Fiber Optics Receiver (Pelco FR85081M).....	4,953.16	77.01
28 21 31 00-0683				<b>Video, Audio And Data, Fiber Optics Transmission Equipment</b> <small>(28 21 31 00-0635)</small>		
28 21 31 00-0684				<b>Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitters</b> <small>(28 21 31 00-0683)</small>		
28 21 31 00-0685	EA			Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitter (Pelco FT86011S).....	2,354.45	77.01
28 21 31 00-0686	EA			Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Transmitter (Pelco FT86011M).....	1,880.25	77.01
28 21 31 00-0687				<b>Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receivers</b> <small>(28 21 31 00-0683)</small>		
28 21 31 00-0688	EA			Single-Channel, Single Mode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receiver (Pelco FR86011S).....	2,354.45	77.01
28 21 31 00-0689	EA			Single-Channel, Multimode, Digitally Encoded Video With Bidirectional Audio, Data And Contact Closure, Fiber Optics Receiver (Pelco FR86011M).....	1,880.25	77.01
28 21 31 00-0690				<b>Video Amplifiers</b> <small>(28 21 31 00-0619)</small>		
28 21 31 00-0691				<b>Video Distribution Amplifiers</b> <small>(28 21 31 00-0690)</small>		
28 21 31 00-0692	EA			1 Input, 4 Outputs, Video Distribution Amplifier (Pelco DA104DT).....	295.37	19.25
28 21 31 00-0693	EA			16 Channel, Master, Video Distribution Amplifier (Pelco CM9760-MDA)..... Note: Inserts time-date and title on up to 16 video inputs.	2,337.73	19.25
28 21 31 00-0694				<b>Video Equalizing Amplifiers</b> <small>(28 21 31 00-0690)</small>		
28 21 31 00-0695	EA			Video Equalizing Amplifier (Pelco EA2010).....	320.32	19.25
28 21 31 00-0696	EA			Half-Duplex, Video Equalizing Amplifier (Pelco EA2000).....	498.15	19.25
28 21 31 00-0697				<b>Network Video Equipment</b> <small>(28 21 31 00-0001)</small>		
28 21 31 00-0698				<b>Video Encoders/Decoders</b> <small>(28 21 31 00-0697)</small>		
28 21 31 00-0699	EA			MPEG4 IP Video Receiver (Pelco NET300R).....	1,189.76	38.51
28 21 31 00-0700	EA			MPEG4 IP Video Transmitter (Pelco NET300T).....	1,189.76	38.51
28 21 31 00-0701	EA			MPEG4 IP Video Receiver With Audio (Pelco NET350R).....	1,364.46	38.51
28 21 31 00-0702	EA			MPEG4 IP Video Transmitter With Audio And Local Storage (Pelco NET350T).....	1,364.46	38.51
28 21 31 00-0703				<b>Network Video Recorders</b> <small>(28 21 31 00-0697)</small>		
28 21 31 00-0704	EA			16 Device Or 100MBPS, Network Video Recorder (Pelco NVR316).....	7,356.37	77.01
28 21 31 00-0705	EA			32 Device Or 100MBPS, Network Video Recorder (Pelco NVR332).....	8,555.37	77.01
28 21 31 00-0706	EA			64 Device Or 100MBPS, Network Video Recorder (Pelco NVR364).....	10,955.46	77.01
28 21 31 00-0707	EA			64 Device Or 100MBPS, PelcoNet Network Video Recorder (Pelco NVR300).....	7,265.90	77.01

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 21 31 00-0708 Network Video Recorder Software</b> (28 21 31 00-0697)		
28 21 31 00-0709 EA 10 User, License Pack (Pelco VMX300-LIC-10) .....	723.77	
28 21 31 00-0710 EA 20 User, License Pack (Pelco VMX300-LIC-20) .....	1,305.07	
28 21 31 00-0711 EA 50 User, License Pack (Pelco VMX300-LIC-50) .....	2,898.20	
28 21 31 00-0712 EA 100 User, License Pack (Pelco VMX300-LIC-100) .....	5,069.51	
28 21 31 00-0713 EA 10 User, Enterprise License Pack (Pelco VMX300-E-LIC10) .....	1,208.36	
28 21 31 00-0714 EA 20 User, Enterprise License Pack (Pelco VMX300-E-LIC20) .....	2,173.39	
28 21 31 00-0715 EA 50 User, Enterprise License Pack (Pelco VMX300-E-LIC50) .....	4,830.34	
28 21 31 00-0716 EA 100 User, Enterprise License Pack (Pelco VMX300-E-LIC100) .....	8,451.27	
28 21 31 00-0717 EA 200 User, Enterprise License Pack (Pelco VMX300-E-LIC200) .....	14,486.85	
28 21 31 00-0718 EA 500 User, Enterprise License Pack (Pelco VMX300-E-LIC500) .....	30,179.98	
28 21 31 00-0719 EA 0 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-0) .....	6,551.01	
28 21 31 00-0720 EA 1 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-1) .....	6,953.46	
28 21 31 00-0721 EA 4 Analog Inputs, No Monitors, Video Management Client Software Installed On Pelco Workstation (Pelco VMX300-CL-4) .....	10,978.91	
28 21 31 00-0722 EA 0 Analog Inputs, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSVR-0) .....	7,275.83	
28 21 31 00-0723 EA 1 Analog Input, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSVR-1) .....	7,678.27	
28 21 31 00-0724 EA 4 Analog Inputs, No Monitors, Video Management Client/Server Software Installed On Pelco Workstation (Pelco VMX300-CSVR-4) .....	11,701.64	
28 21 31 00-0725 EA 0 Analog Inputs, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-0) .....	7,034.57	
28 21 31 00-0726 EA 1 Analog Input, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-1) .....	7,438.05	
28 21 31 00-0727 EA 4 Analog Inputs, No Monitors, Enterprise Video Management Client Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CL-4) .....	11,462.46	
28 21 31 00-0728 EA 0 Analog Inputs, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSVR-0) .....	8,240.85	
28 21 31 00-0729 EA 1 Analog Input, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSVR-1) .....	8,643.29	
28 21 31 00-0730 EA 4 Analog Inputs, No Monitors, Enterprise Video Management Client/Server Software Installed On Pelco Enterprise Workstation (Pelco VMX300-E-CSVR-4) .....	12,668.75	
<b>28 21 31 00-0731 Video Recording Equipment</b> (28 21 31 00-0001)		
<b>28 21 31 00-0732 Digital Video Recorders</b> (28 21 31 00-0731)		
28 21 31 00-0733 EA 8 Channel, 1TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-1000A) .....	11,500.37	77.01
28 21 31 00-0734 EA 8 Channel, 2 TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-2000A) .....	15,757.72	77.01
28 21 31 00-0735 EA 8 Channel, 3 TB Hard Drive, 8 Channel Audio, Digital Video Recorder With DVD (Pelco DX8108-3000A) .....	20,016.11	77.01
28 21 31 00-0736 EA 16 Channel, 1 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-1000A) .....	13,839.10	77.01
28 21 31 00-0737 EA 16 Channel, 2 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-2000A) .....	18,096.45	77.01
28 21 31 00-0738 EA 16 Channel, 3 TB Hard Drive, 16 Channel Audio, Digital Video Recorder With DVD (Pelco DX8116-3000A) .....	22,354.85	77.01
28 21 31 00-0739 EA 24 Channel, 1 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-1000A) .....	15,125.46	77.01
28 21 31 00-0740 EA 24 Channel, 2 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-2000A) .....	19,382.81	77.01
28 21 31 00-0741 EA 24 Channel, 3 TB Hard Drive, 24 Channel Audio, Digital Video Recorder With DVD (Pelco DX8124-3000A) .....	23,641.20	77.01
28 21 31 00-0742 EA 32 Channel, 1 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-1000A) .....	17,464.20	77.01
28 21 31 00-0743 EA 32 Channel, 2 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-2000A) .....	21,721.55	77.01
28 21 31 00-0744 EA 32 Channel, 3 TB Hard Drive, 32 Channel Audio, Digital Video Recorder With DVD (Pelco DX8132-3000A) .....	25,979.94	77.01
28 21 31 00-0745 EA 16 Channel, 30 IPS, Digital Video Recorder (Pelco DX9116F-1500) .....	12,691.37	77.01
<b>28 21 31 00-0746 Digital Video Recorder Accessories</b> (28 21 31 00-0731)		
28 21 31 00-0747 EA 16 Channel, Multiplexed Analog Output Display Card (Pelco DX8000-MUX16) .....	1,152.32	38.51
<b>28 21 31 00-0748 Matrix Systems And Controls</b> (28 21 31 00-0001)		
<b>28 21 31 00-0749 Video Multiplexers</b> (28 21 31 00-0748)		
<b>28 21 31 00-0750 Monochrome Duplex, Video Multiplexers</b> (28 21 31 00-0749)		
28 21 31 00-0751 EA 9 Channel, Monochrome Duplex, Video Multiplexer (Pelco MX4009MD) .....	2,144.39	77.01
28 21 31 00-0752 EA 16 Channel, Monochrome Duplex, Video Multiplexer (Pelco MX4016MD) .....	2,028.96	77.01
<b>28 21 31 00-0753 Color Duplex, Video Multiplexers</b> (28 21 31 00-0749)		
28 21 31 00-0754 EA 4 Channel, Color Duplex, Video Multiplexer (Pelco MX4004CD) .....	1,461.17	77.01
28 21 31 00-0755 EA 9 Channel, Color Duplex, Video Multiplexer (Pelco MX4009CD) .....	2,751.69	77.01
28 21 31 00-0756 EA 16 Channel, Color Duplex, Video Multiplexer (Pelco MX4016CD) .....	2,979.43	77.01
<b>28 21 31 00-0757 Color Simplex, Video Multiplexers</b> (28 21 31 00-0749)		
28 21 31 00-0758 EA 9 Channel, Monochrome Simplex, Video Multiplexer (Pelco MX4009CS) .....	2,319.09	77.01
28 21 31 00-0759 EA 16 Channel, Monochrome Simplex, Video Multiplexer (Pelco MX4016CS) .....	2,701.78	77.01
<b>28 21 31 00-0760 Video Multiplexer Accessories</b> (28 21 31 00-0749)		
28 21 31 00-0761 EA Pushbutton/Joystick Desktop Controls For PTZ, Fixed/Variable-Speed, Multiplexer Controller (Pelco KBD4000) .....	1,308.49	52.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0762 EA Pushbutton Desktop Controls For PTZ, Fixed/Variable-Speed, Multiplexer Controller (Pelco KBD4002)	790.62	52.59
28 21 31 00-0763 EA Video Multiplexer Server (Pelco MX4000SVR)	2,144.39	77.01
<b>28 21 31 00-0764 Quad Video Processor</b> <small>(28 21 31 00-0748)</small>		
28 21 31 00-0765 EA Monochrome, Quad Video Processor (Pelco QD104M)	670.79	38.51
28 21 31 00-0766 EA Color, Quad Video Processor (Pelco QD104C)	1,086.75	38.51
<b>28 21 31 00-0767 Switcher</b> <small>(28 21 31 00-0748)</small>		
<b>28 21 31 00-0768 Terminating Manual Switchers</b> <small>(28 21 31 00-0767)</small>		
<b>28 21 31 00-0769 Terminating Manual Switchers</b> <small>(28 21 31 00-0768)</small>		
28 21 31 00-0770 EA 4 Inputs, Terminating Manual Switcher (Pelco MS504DT)	241.51	30.80
28 21 31 00-0771 EA 8 Inputs, Terminating Manual Switcher (Pelco MS508DT)	322.62	30.80
28 21 31 00-0772 EA 12 Inputs, Terminating Manual Switcher (Pelco MS512DT)	389.18	30.80
28 21 31 00-0773 EA 18 Inputs, Terminating Manual Switcher (Pelco MS518DT)	627.32	30.80
<b>28 21 31 00-0774 Audio Follow, Terminating Manual Switchers</b> <small>(28 21 31 00-0768)</small>		
28 21 31 00-0775 EA 4 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS504AF)	308.07	30.80
28 21 31 00-0776 EA 8 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS508AF)	531.64	30.80
28 21 31 00-0777 EA 18 Inputs, Audio Follow, Terminating Manual Switcher (Pelco MS518AF)	917.45	30.80
<b>28 21 31 00-0778 Balanced Audio Follow, Terminating Manual Switchers</b> <small>(28 21 31 00-0768)</small>		
28 21 31 00-0779 EA 4 Inputs, Balanced Audio Follow, Terminating Manual Switcher (Pelco MS504BAF)	406.86	30.80
28 21 31 00-0780 EA 8 Inputs, Balanced Audio Follow, Terminating Manual Switcher (Pelco MS508BAF)	733.39	30.80
<b>28 21 31 00-0781 Looping Manual Switchers</b> <small>(28 21 31 00-0767)</small>		
<b>28 21 31 00-0782 Looping Manual Switchers</b> <small>(28 21 31 00-0781)</small>		
28 21 31 00-0783 EA 4 Inputs, Looping Manual Switcher (Pelco MS504LDT)	268.55	30.80
28 21 31 00-0784 EA 8 Inputs, Looping Manual Switcher (Pelco MS508LDT)	363.18	30.80
28 21 31 00-0785 EA 12 Inputs, Looping Manual Switcher (Pelco MS512LDT)	458.85	30.80
28 21 31 00-0786 EA 18 Inputs, Looping Manual Switcher (Pelco MS518LDT)	746.90	30.80
<b>28 21 31 00-0787 Audio Follow, Looping Manual Switchers</b> <small>(28 21 31 00-0781)</small>		
28 21 31 00-0788 EA 4 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS504AFL)	330.94	30.80
28 21 31 00-0789 EA 8 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS508AFL)	567.00	30.80
28 21 31 00-0790 EA 12 Inputs, Audio Follow, Looping Manual Switcher (Pelco MS512AFL)	772.90	30.80
<b>28 21 31 00-0791 Balanced Audio Follow, Looping Manual Switchers</b> <small>(28 21 31 00-0781)</small>		
28 21 31 00-0792 EA 4 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS504BAFL)	434.93	30.80
28 21 31 00-0793 EA 8 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS508BAFL)	776.02	30.80
28 21 31 00-0794 EA 12 Inputs, Balanced Audio Follow, Looping Manual Switcher (Pelco MS512BAFL)	972.56	30.80
<b>28 21 31 00-0795 Sequential Switchers</b> <small>(28 21 31 00-0767)</small>		
<b>28 21 31 00-0796 Single Output, Sequential Switchers</b> <small>(28 21 31 00-0795)</small>		
28 21 31 00-0797 EA 4 Inputs, Single Output, Sequential Desktop Switcher (Pelco VA6104)	459.89	30.80
28 21 31 00-0798 EA 8 Inputs, Single Output, Sequential Desktop Switcher (Pelco VA6108)	678.27	30.80
<b>28 21 31 00-0799 Dual Outputs, Sequential Switchers</b> <small>(28 21 31 00-0795)</small>		
28 21 31 00-0800 EA 4 Inputs, Dual Outputs, Sequential Desktop Switcher (Pelco VA6204)	571.16	30.80
28 21 31 00-0801 EA 8 Inputs, Dual Outputs, Sequential Desktop Switcher (Pelco VA6208)	785.38	30.80
<b>28 21 31 00-0802 Controls</b> <small>(28 21 31 00-0748)</small>		
<b>28 21 31 00-0803 Direct/Multi-Cable Controls</b> <small>(28 21 31 00-0802)</small>		
28 21 31 00-0804 EA Scanner Control Module (Pelco MPS524DT)	420.23	77.01
28 21 31 00-0805 EA 120 Volt AC Pan/Tilt Control Module (Pelco MPT115DT)	446.23	77.01
28 21 31 00-0806 EA 24 Volt AC Pan/Tilt Control Module (Pelco MPT24DT)	490.95	77.01
28 21 31 00-0807 EA Motorized Zoom Lens Control Module (Pelco MLZ6DT)	511.75	77.01
28 21 31 00-0808 EA 120 Volt AC Pan/Tilt, Scanner And Lens Control Module (Pelco MPTAZ115DT)	786.28	77.01
28 21 31 00-0809 EA 24 Volt AC Pan/Tilt, Scanner And Lens Control Module (Pelco MPTAZ24DT)	862.19	77.01
<b>28 21 31 00-0810 Coaxitron Controls</b> <small>(28 21 31 00-0802)</small>		
28 21 31 00-0811 EA Desktop Keyboard, Fixed Speed Coaxitron Controller And Transmitter (Pelco KBD9000)	597.20	52.59
28 21 31 00-0812 EA 8 Position Joystick Pan/Tilt Controls, Switch Camera Lens Controls, Desktop Coaxitron Controller And Transmitter (Pelco MPT9000)	1,087.00	52.59

**28 Electronic Safety and Security****28 20 Video Surveillance****28 21 Surveillance Cameras**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 21 31 00-0813 EA Integral Switcher, 8 Position Joystick Pan/Tilt Controls, Switch Camera Lens Controls, Desktop Coaxitron Controller And Transmitter (Pelco MPT9008).....	1,227.38	52.59
<b>28 21 31 00-0814 Digital Controls</b> (28 21 31 00-0802)		
28 21 31 00-0815 EA Pushbutton Desktop Controls For Pan/Tilt/Zoom, Fixed/Variable-Speed, Digital Controller (Pelco KBD200A).....	785.42	52.59
28 21 31 00-0816 EA Pushbutton/Joystick Desktop Controls For Pan/Tilt/Zoom, Fixed/Variable-Speed, Digital Controller (Pelco KBD300A).....	1,298.10	52.59
<b>28 21 31 00-0817 Lock Boxes</b> (28 21 31 00-0748)		
28 21 31 00-0818 EA VCR Lock Box (Pelco LB1000).....	478.44	57.76
For Wall Mount, Add	165.00	
28 21 31 00-0819 EA Computer Disk Drive Lock Box (Pelco LB2000) .....	488.83	57.76
28 21 31 00-0820 EA VCR And Multiplexer Lock Box (Pelco LB3000) .....	873.60	57.76
Note: Includes storage for 32 VCR tapes.		
<b>28 21 31 00-0821 Test And Certification Of Surveillance Camera System</b> (28 21 31)		
28 21 31 00-0822 DAY Test And Certification Of Surveillance Camera System To Tie Into Existing Systems .....	1,224.43	
28 21 31 00-0823 HR Test And Certification Of Surveillance Camera System.....	382.63	
<b>28 21 31 00-0824 Programming Of Surveillance Camera System</b> (28 21 31)		
28 21 31 00-0825 HR Programming Of Surveillance Camera System .....	459.16	
<b>28 21 31 00-0826 Removal And Reinstallation Of Cameras</b> (28 21 31)		
Note: Includes storage, cleaning and supply materials.		
28 21 31 00-0827 EA Removal And Reinstallation Of Camera System .....	693.09	

**28 40 Life Safety** (28)

Note: Includes testing of new devices and certification.

**28 42 Gas Detection and Alarm** (28 40)**28 42 11 Gas Detection and Alarm Control, GUI, and Logic Systems** (28 42)**28 42 11 00-0001 Monitoring System For Underground Tanks** (28 42 11)**28 42 11 00-0002 Continuous Leak Detection System** (28 42 11 00-0001)

Note: Includes calibration, electronic control module and probes. Excludes sample wells, electrical power supply and sensor cable.

28 42 11 00-0003 EA Single Channel Underground Tank Monitoring System .....	16,216.54	630.67
28 42 11 00-0004 EA 2 Channel Underground Tank Monitoring System .....	21,891.25	841.41
28 42 11 00-0005 EA 3 Channel Underground Tank Monitoring System .....	31,299.75	901.39
28 42 11 00-0006 EA 4 Channel Underground Tank Monitoring System .....	33,240.64	1,261.34
28 42 11 00-0007 EA Control Panel, 1-8 Tanks, Single Wall Tank Monitoring System.....	24,235.94	107.68
28 42 11 00-0008 EA Control Panel, 1-4 Tanks, Double Wall Tank Monitoring System .....	21,856.98	96.14
28 42 11 00-0009 EA Control Panel, 1-8 Tanks, Double Wall Tank Monitoring System .....	28,762.40	107.68
28 42 11 00-0010 EA Tank Leak Detection Probe .....	8,914.88	23.07
28 42 11 00-0011 EA Secondary Containment Collar Probe.....	1,081.02	9.23
28 42 11 00-0012 EA Interstitial Leak Detection Probe .....	1,978.83	19.22
28 42 11 00-0013 EA Liquid Phase Detection .....	6,536.95	57.68
28 42 11 00-0014 EA Hydrocarbon Vapor, Fixed.....	6,028.88	57.68
28 42 11 00-0015 EA Hydrocarbon Vapor, Float Mounted.....	7,052.31	65.37
28 42 11 00-0016 EA Liquid And Vapor Hydrocarbon.....	8,068.46	65.37

**28 42 15 Gas Detection Sensors** (28 42)**28 42 15 00-0001 Hydrogen Gas Detection** (28 42 15)

28 42 15 00-0002 EA Hydrogen Gas Detector Sensor, 1% Fan Relay, 2% Alarm (SBS HGDI-DR) .....	2,024.99	57.76
28 42 15 00-0003 EA Hydrogen Gas Detector Junction Box (SBS HGDI-JB).....	113.18	19.25
28 42 15 00-0004 EA Remote Display With 25' Cable For Hydrogen Gas Detector (SBS HGDI-REM).....	531.54	57.76

**28 43 Fuel Oil Detection and Alarm** (28 40)

See CSI section 28 42 00 00-0000 for detection and alarms.

**28 46 Fire Detection and Alarm** (28 40)**28 46 13 Fire-Alarm Systems** (28 46)**28 46 13 31 Proprietary Supervising-Station Fire-Alarm Systems** (28 46 13)

Note: Includes programming of equipment, testing and certification of new devices.

28 46 13 31-0001 Edwards Fire Alarm (28 46 13 31)		
28 46 13 31-0002 EST3 Life Safety And Security Control (28 46 13 31-0001)		
28 46 13 31-0003 EST3 Network (28 46 13 31-0002)		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 13 31-0004 Remote Annunciators</b> <small>(28 46 13 31-0003)</small>		
28 46 13 31-0005 EA Remote LCD Command Module Annunciator (EST3 3-LCDANN).....	1,662.73	115.51
<small>Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.</small>		
28 46 13 31-0006 EA Six Position Base Annunciator (EST3 3-6ANN).....	1,363.23	115.51
<small>Note: Includes door, CPU card, two annunciator support modules and five blank filler plates. Space provided for up to four Control/Display Modules and one 3-LCD Liquid Crystal Display Module.</small>		
28 46 13 31-0007 EA Ten Position Base Annunciator (EST3 3-10ANN).....	1,712.47	115.51
<small>Note: Includes door, CPU card, two annunciator support modules and nine blank filler plates. Space provided for up to eight Control/Display Modules and one 3-LCD Liquid Crystal Display Module.</small>		
28 46 13 31-0008 EA Annunciator CPU (EST3 3-ANNCPU3) .....	1,107.58	115.51
<small>Note: One Required per graphic annunciator.</small>		
28 46 13 31-0009 EA Annunciator Support Module (EST3 3-ANNSM).....	210.40	38.51
<small>Note: Takes one space in Annunciator box. Supports one Control/Display module.</small>		
28 46 13 31-0010 EA Liquid Crystal Display Module (EST3 3-LCD).....	727.90	115.51
<small>Note: Mounts over 3-CPU(1).</small>		
28 46 13 31-0011 EA Liquid Crystal Display Module (EST3 3-LCDXL).....	735.57	115.51
<small>Note: Mounts over 3-ANNCPU plus two spaces.</small>		
28 46 13 31-0012 EA LED/SWITCH Driver Module Assembly For Third Part Graphics (EST3 3-EVDVRA) .....	815.44	115.51
<small>Note: Assembled version of 3-EVDVR, comes packaged with cables, mounting hardware installation instructions used for third party graphics. Mounts in 3-EVDVRX.</small>		
28 46 13 31-0013 EA Power Supply Assembly With 19" Rail Mounting Chassis Assembly (EST3 3-EVPWRA).....	928.33	77.01
<small>Note: Assembled version of 3-EVPWR, comes packaged with cables, mounting hardware and mounting plate for 3-ANNCPU1. Used for third party graphics.</small>		
28 46 13 31-0014 EA Plastic Mounting Extrusion 19" Mounting (EST3 3-EVDVRX) .....	150.94	38.51
<small>Note: Mounts up to three 3-EVDVRA modules.</small>		
28 46 13 31-0015 EA Central Processor Unit Module (EST3 3-CPU3).....	1,960.96	115.51
<small>Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.</small>		
28 46 13 31-0016 EA 120 Volt AC, 50/60 Hertz, Primary Power Supply With Local Rail Module (EST3 3-CPU3) .....	1,706.23	38.51
<small>Note: Includes LCD display, CPU and doors. Order surface or semi-flush mount wallbox separately.</small>		
<b>28 46 13 31-0017 Remote Annunciators Cabinets</b> <small>(28 46 13 31-0003)</small>		
28 46 13 31-0018 EA Remote LCD Command Module Flush Mount LCD Wallbox (EST3 RLCM/B) .....	161.57	38.51
28 46 13 31-0019 EA Remote LCD Command Module Surface Mount LCD Wallbox (EST3 RLCM/B-S) .....	146.17	30.80
28 46 13 31-0020 EA Six Position LED/LCD Flush Wallbox (EST3 6ANN/B) .....	180.34	38.51
28 46 13 31-0021 EA Six Position LED/LCD Surface Wallbox (EST3 6ANN/B-S) .....	164.94	30.80
28 46 13 31-0022 EA Ten Position LED/LCD Flush Wallbox (EST3 10ANN/B) .....	197.94	38.51
28 46 13 31-0023 EA Ten Position LED/LCD Surface Wallbox (EST3 10ANN/B-S) .....	182.54	30.80
<b>28 46 13 31-0024 Audio And Telephone Masters</b> <small>(28 46 13 31-0003)</small>		
28 46 13 31-0025 EA Audio Source Unit With Local Microphone And Firefighters' Telephone (EST3 3-ASU/FT).....	5,333.54	154.02
28 46 13 31-0026 EA Audio Source Unit With Local Microphone (Provides Four Local Rail Spaces) (EST3 3-ASU/4) .....	2,996.17	154.02
28 46 13 31-0027 EA Audio Source Unit With Local Microphone And Inner Door Filler Plate (EST3 3-ASU).....	1,963.52	154.02
28 46 13 31-0028 EA Fire Fighters Telephone Control Unit With Inner Door Filler Plate (EST3 3-FTCU).....	2,835.46	154.02
28 46 13 31-0029 EA Audio Source Unit Memory Expansion, 100 Minutes (EST3 3-ASUMX/100).....	3,229.83	154.02
28 46 13 31-0030 EA Zoned Amplifier, 95 Watt, Class B. 95 Watt Selectable For 25 Or 70 Vrms Class B Output. Mounts In 2 LRM Spaces (EST3 3-ZA95) .....	1,895.79	77.01
<b>28 46 13 31-0031 Battery Distribution Unit</b> <small>(28 46 13 31-0003)</small>		
28 46 13 31-0032 EA Battery Distribution Unit (EST3 3-BTSEN).....	641.14	487.12
<b>28 46 13 31-0033 Remote Booster Power Supply</b> <small>(28 46 13 31-0003)</small>		
28 46 13 31-0034 EA 6.5 Amperes, 120 Volt AC, Booster Power Supply (EST3 BPS6A) .....	961.56	115.51
28 46 13 31-0035 EA 10 Amperes, 110 Volt AC Booster Power Supply (EST3 BPS10).....	1,091.54	115.51
28 46 13 31-0036 EA 10 Amperes, 220 Volt AC Booster Power Supply (EST3 BPS10220).....	1,187.32	115.51
28 46 13 31-0037 EA Tamper Switch - For CAB7, 14 And 21 Series Cabinets (EST3 3-TAMP).....	164.72	38.51
<b>28 46 13 31-0038 Batteries And Battery Cabinets</b> <small>(28 46 13 31-0003)</small>		
28 46 13 31-0039 EA 1.2 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V1A2 (1.2 Ampere Hours)).....	129.03	38.51
28 46 13 31-0040 EA 4 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V4A (4.5 Ampere Hours)).....	157.26	38.51
28 46 13 31-0041 EA 24 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V24A (26 Ampere Hours)).....	352.08	38.51
28 46 13 31-0042 EA 6.5 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V6A5 (7.2 Ampere Hours)).....	168.57	38.51
28 46 13 31-0043 EA 40 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V40A (40 Ampere Hours)).....	442.52	38.51
28 46 13 31-0044 EA 10 Amperes Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V10A (11 Ampere Hours)) .....	255.30	38.51
28 46 13 31-0045 EA 50 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V50A (50 Ampere Hours)).....	883.15	38.51
28 46 13 31-0046 EA 17 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V17A (18 Ampere Hours)).....	261.13	38.51
28 46 13 31-0047 EA 65 Ampere Hours, 12 Volt DC, Sealed Lead Acid Battery (EST3 12V65A (65 Amp Hours)).....	1,060.32	38.51
28 46 13 31-0048 EA 8 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V8A (8 Amp Hours)).....	151.76	38.51
28 46 13 31-0049 EA 10 Ampere Hours, 6 Volt DC, Sealed Lead Acid Battery (EST3 6V10A (12 Amp Hours)).....	137.65	38.51
28 46 13 31-0050 EA 14" x 18-1/4" x 7-1/4" Free Standing Battery Cabinet With Key Lock (EST3 BC-1).....	469.05	77.01
<small>Note: Supports up to 40 Ah batteries will hold up to two 12V24A batteries.</small>		
28 46 13 31-0051 EA 22" x 15" x 3-3/4" Grey Battery Cabinet (EST3 BC-2) .....	393.00	77.01
<small>Note: Holds up to two 12V17A batteries.</small>		
28 46 13 31-0052 EA Remote Closet Enclosure (EST3 3-RCC7R) .....	1,301.56	154.02
28 46 13 31-0053 EA Remote Closet Enclosure (EST3 3-RCC14R) .....	1,600.97	154.02
28 46 13 31-0054 EA Remote Closet Enclosure (EST3 3-RCC21R) .....	2,221.85	154.02

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 13 31-0055 Serial Printer</b> <small>(28 46 13 31-0003)</small>		
28 46 13 31-0056 EA System Printer - Desk Top Style (EST3 PT-1S) .....	989.99	38.51
<b>28 46 13 31-0057 Intelligent Analog Initiating Devices</b> <small>(28 46 13 31-0002)</small>		
<b>28 46 13 31-0058 Detectors, Signature</b> <small>(28 46 13 31-0057)</small>		
28 46 13 31-0059 EA Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHS).....	285.83	57.76
28 46 13 31-0060 EA Black, Intelligent 4D Multisensor Detector For Ionization, Photoelectric, And Heat (EST3 SIGA-IPHSB).....	318.70	57.76
28 46 13 31-0061 EA Intelligent 3D Multisensor Detector For Photoelectric And Heat (EST3 SIGA-PHS).....	276.03	57.76
28 46 13 31-0062 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA-PS) .....	246.66	57.76
28 46 13 31-0063 EA Intelligent Ionization Smoke Detector (EST3 SIGA-IS).....	256.45	57.76
28 46 13 31-0064 EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA-HRS) .....	213.90	57.76
28 46 13 31-0065 EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA-HFS) .....	213.90	57.76
28 46 13 31-0066 EA Passive Infrared Motion Detector (EST3 SIGA-MD).....	327.44	57.76
28 46 13 31-0067 EA Passive Infrared Motion Detector With Swivel Mount For Single Gang Boxes (EST3 SIGA-MDS) .....	359.52	57.76
28 46 13 31-0068 EA Intelligent Photoelectric Smoke Detector (EST3 SIGA2-PS) .....	306.43	57.76
28 46 13 31-0069 EA Intelligent Combination Photo Electric And CO Sensor (EST3 SIGA2-PCOS) .....	433.77	57.76
28 46 13 31-0070 EA 135 Degree Fahrenheit, Intelligent Fixed Temperature Heat Detector (EST3 SIGA2-HFS) .....	258.90	57.76
28 46 13 31-0071 EA 135 Degrees Fahrenheit, 15 Degrees Fahrenheit Per Minute, Intelligent Fixed Temperature/Rate-of-Rise Heat Detector (EST3 SIGA2-HRS) .....	258.90	57.76
28 46 13 31-0072 EA Photoelectric, Heat, Intelligent 3D Multisensor Detector (EST3 SIGA2-PHS).....	349.22	57.76
<b>28 46 13 31-0073 Detectors, Duct Housings and Accessories, Signature</b> <small>(28 46 13 31-0057)</small>		
28 46 13 31-0074 EA Superduct, Signature Duct Smoke Detector (EST3 SIGA-SD) .....	570.92	96.26
28 46 13 31-0075 EA Superduct, Test Magnet Kit (EST3 SD-MAG).....	27.37	
28 46 13 31-0076 EA Superduct, 120" Air Sample Tube (EST3 SD-T120).....	78.80	23.10
28 46 13 31-0077 EA Superduct, Remote Test Station, Keyed, 2-Wire And SIGA (EST3 SD-TRK).....	151.14	30.80
28 46 13 31-0078 EA Duct Smoke Detector Test Station, 2-Gang Plastic Plate With Key Switch, 2 Keys, Use With Duct Detector Only (EST3 SIGA-DTS) .....	200.85	30.80
28 46 13 31-0079 EA High Temp Heat Detector, 194 Degree F, Combination Rate-Of-Rise And Fixed Temperature (EST3 282B-PL).....	94.42	30.80
<b>28 46 13 31-0080 Modules, Signature</b> <small>(28 46 13 31-0057)</small>		
28 46 13 31-0081 EA Universal Class A/B Module - UIO Mount (EST3 SIGA-MAB) .....	263.67	38.51
28 46 13 31-0082 EA Class B Single Input Module (One Gang Standard Mount) (EST3 SIGA-CT1).....	132.58	38.51
28 46 13 31-0083 EA Class B Dual Input Module (One Gang Standard Mount) (EST3 SIGA-CT2) .....	171.34	38.51
28 46 13 31-0084 EA Class B Dual Input UIO (Plug In) Module (EST3 SIGA-MCT2).....	237.46	38.51
28 46 13 31-0085 EA Single Input (Riser) Module, Features A Built-In Ring Tone Generator, Use For Switching A Single Signal Or Audio Circuit (EST3 SIGA-CC1).....	185.96	38.51
28 46 13 31-0086 EA Dual Input (Riser) Module, Use For Switching (Selecting) Either Of Two Signal Or Audio Input Circuits To One Signal Output Circuit (EST3 SIGA-CC2).....	194.01	38.51
28 46 13 31-0087 EA Control Relay Module (One Gang Standard Mount) (EST3 SIGA-CR)..... Note: Select for either N.O. or N.C. operation. Rated at 2 amperes (24 Volt DC).	153.06	38.51
28 46 13 31-0088 EA Control Relay UIO (Plug In) Module (EST3 SIGA-MCR) .....	208.16	38.51
28 46 13 31-0089 EA Single Input (Riser) Module With Strobe Synchronization Output (EST3 SIGA-CC1S).....	273.63	38.51
28 46 13 31-0090 EA Universal Input/Output Module - Input With Programmable Output (EST3 SIGA-IO) .....	267.05	38.51
28 46 13 31-0091 EA Input/Output Module - UIO Mount, Multifunction Module With Input And Program (EST3 SIGA-MIO) .....	257.26	38.51
28 46 13 31-0092 EA Waterflow/Tamper Module (One Gang Standard Mount) (EST3 SIGA-WTM).....	236.95	198.45
28 46 13 31-0093 EA Monitor Module (One Gang Standard Mount) (EST3 SIGA-MM1)..... Note: Factory programmed for non-latching monitor operation.	176.94	38.51
28 46 13 31-0094 EA Single Input (Riser) Module, With Synchronization Output (EST3 SIGA-MCC1S).....	274.70	38.51
<b>28 46 13 31-0095 Module Accessories, Signature</b> <small>(28 46 13 31-0057)</small>		
Note: Universal I/O motherboards are required for UIO plug-in modules. Module mounting plates can be used to mount multiple 1 and 2-gang modules.		
28 46 13 31-0096 EA Module Mounting Bracket - For 4" Square Box, Mounting Kit Allows Installing 2 Single Gang Signature Modules Into A Single 4" Square Box (EST3 SIGA-MB4).....	71.41	19.25
28 46 13 31-0097 EA Universal Input/Output Module Motherboard - 6 Position, Use For M Series Modules (EST3 SIGA-UIO6).....	234.29	38.51
28 46 13 31-0098 EA Transient Protector - For Bell And Horn Circuits, Provides Transient Protection To -CC1, -MCC1, -CC2, - UM And -MAB Modules (EST3 235196P).....	28.00	11.56
28 46 13 31-0099 EA Signature Module Mounting Plate, 1 Footprint, Space For Up To Four 2-Gang Signature Modules Or Eight 1- Gang Signature Modules (EST3 SIGA-MP1).....	82.74	19.25
28 46 13 31-0100 EA Signature Module Mounting Plate, 1/2 Footprint, Space For Up To Two 2-Gang Signature Modules Or Four 1- Gang Signature Modules (EST3 SIGA-MP2).....	74.60	19.25
28 46 13 31-0101 EA Signature Module Mounting Plate, 1/2 Extended Footprint, Space For Up To Three 2-Gang Signature Modules Or Six 1-Gang Signature Modules (EST3 SIGA-MP2L) .....	77.82	19.25
<b>28 46 13 31-0102 Single Action Pull Stations, Signature</b> <small>(28 46 13 31-0057)</small>		
28 46 13 31-0103 EA One Stage Fire Alarm Station, English Markings (EST3 SIGA-270).....	301.51	80.09
28 46 13 31-0104 EA Two Stage (Pre Signal) Fire Alarm Station, English Markings (EST3 SIGA-270P).....	350.64	80.09
28 46 13 31-0105 EA GA Key - For Pre Signal Station (EST3 276-K2) .....	40.36	32.65
28 46 13 31-0106 EA 20 Glass Rods For SIGA-270 Series Stations (EST3 270-GLR) .....	49.82	42.11
28 46 13 31-0107 EA Surface Mount Box, Red - For SIGA-270 Series (EST3 276B-RSB) .....	82.83	52.02



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 13 31-0108</b>		<b>Double Action Pull Stations, Signature</b> <small>(28 46 13 31-0057)</small>		
	28 46 13 31-0109	EA Double Action (One Stage) Fire Alarm Station, English Markings (EST3 SIGA-278) .....	241.04	80.09
	28 46 13 31-0110	EA 12 Glass Rods For SIGA-278 Series (EST3 276-GLR) .....	50.52	7.70
<b>28 46 13 31-0111</b>		<b>Detector Bases and Accessories, Signature</b> <small>(28 46 13 31-0057)</small>		
		Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, and -PHS detectors and -SB, -RB and -IB bases.		
	28 46 13 31-0112	EA Audible (Sounder) Base (EST3 SIGA-AB4G) .....	144.08	19.25
	28 46 13 31-0113	EA Surface Box - For Sounder Base, Use With -AB4G Models Only (EST3 AB4G-SB) .....	58.26	19.25
	28 46 13 31-0114	EA Audible (Sounder) Base, Mounts To 4" Square, 2-1/8" Deep Box (EST3 SIGA-AB4) .....	178.17	19.25
	28 46 13 31-0115	EA Detector (Smoke) Guard, Covers Detectors Mounted To Flush Boxes, Compatible With -IPHS And -PS Signature Detectors (EST3 SIGA-DG) .....	104.14	19.25
	28 46 13 31-0116	EA Detector (Smoke) Guard Surface Box - For SIGA-DG (EST3 SIGA-DG-SB) .....	120.51	19.25
	28 46 13 31-0117	EA Detector Mounting Plate (EST3 SIGA-DMP) .....	186.00	19.25
		Note: For raised floor and plenum applications. Order detector mounting base and detector separately. Compatible with -PS, -PHS and -IPHS detectors and -SB, -RB and -IB bases. SIGA-IPHS 4D detector is limited to operation in air velocities less than 500 feet per minute.		
	28 46 13 31-0118	EA Remote Alarm LED, Use With -SB And -SB4 Standard Base Only (EST3 SIGA-LED) .....	71.41	19.25
	28 46 13 31-0119	EA Trim Skirt/Ring - For Octagon Box (EST3 SIGA-TS) .....	28.14	11.56
	28 46 13 31-0120	EA Trim Skirt/Ring - For 4" Square Box, Use To Hide Imperfections Around Electric Boxes Not Completely Hidden By Standard Bases, With All 4" Bases (EST3 SIGA-TS4) .....	28.14	11.56
	28 46 13 31-0121	EA Detector (Smoke) Guard Mounting Flange, Provides Secure Mounting While Offering Easy Guard Removal, With Tamper Hardware (EST3 SIGA-DGMF) .....	72.36	11.56
	28 46 13 31-0122	EA Detector Base With Isolator (EST3 SIGA-IB) .....	118.85	19.25
	28 46 13 31-0123	EA Detector Base With Isolator - For 4" Square Box, With TS4 Skirt (EST3 SIGA-IB4) .....	125.87	19.25
	28 46 13 31-0124	EA Detector Base With Form 'C' Relay (EST3 SIGA-RB) .....	76.53	19.25
	28 46 13 31-0125	EA Detector Base With Form 'C' Relay - For 4" Square Box, With TS4 Skirt (EST3 SIGA-RB4) .....	106.61	19.25
	28 46 13 31-0126	EA Detector Base - Standard, For 4" Square Box, With TS4 Skirt (EST3 SIGA-SB4) .....	50.94	19.25
<b>28 46 13 31-0127</b>		<b>Controllers, Signature</b> <small>(28 46 13 31-0057)</small>		
	28 46 13 31-0128	EA Signature Dual Driver Controller (EST3 3-SDDC1) .....	3,826.82	115.51
	28 46 13 31-0129	EA Single Signature Loop Controller (EST3 3-SDDC1) .....	2,212.58	115.51
	28 46 13 31-0130	EA Signature Loop Controller (EST3 3-SDC1) .....	1,992.24	115.51
	28 46 13 31-0131	EA Analog Addressable Loop Controller (EST3 3-AADC1) .....	3,166.39	115.51
<b>28 46 13 31-0132</b>		<b>Relays And Accessories</b> <small>(28 46 13 31-0057)</small>		
	28 46 13 31-0133	EA Multi Voltage Relay (EST3 MR101) .....	215.61	38.51
	28 46 13 31-0134	EA Single SPDT Auxiliary Relay With LED Track Mounting (EST3 MR101/T) .....	67.23	19.25
<b>28 46 13 31-0135</b>		<b>Notification Appliances</b> <small>(28 46 13 31-0002)</small>		
<b>28 46 13 31-0136</b>		<b>Wall Strobes, Horns And Chimes</b> <small>(28 46 13 31-0135)</small>		
	28 46 13 31-0137	EA Strobe (15, 30, 75, Or 110 cd Output), White (EST3 G1-VM) .....	185.52	57.76
	28 46 13 31-0138	EA Strobe (15, 30, 75, Or 110 cd Output), Red (EST3 G1RF-VM) .....	185.52	57.76
	28 46 13 31-0139	EA Horn-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-HDVM) .....	208.33	57.76
	28 46 13 31-0140	EA Temporal Horn (Selectable High Or Low dB Output), White (EST3 G1-HD) .....	159.83	57.76
	28 46 13 31-0141	EA Temporal Horn (Selectable High Or Low dB Output), Red (EST3 G1RF-HD) .....	159.83	57.76
	28 46 13 31-0142	EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-HD) .....	159.83	57.76
	28 46 13 31-0143	EA Temporal Horn, Hi/Lo dB Output, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-HD) .....	159.83	57.76
	28 46 13 31-0144	EA Horn (Steady Tone), 24 Volt DC, White, Not Compatible With Signal Master (EST3 G1-P) .....	138.24	57.76
	28 46 13 31-0145	EA Horn (Steady Tone) - 24 Volt DC, Red, Not Compatible With Signal Master (EST3 G1RF-P) .....	138.24	57.76
	28 46 13 31-0146	EA Horn (Steady Tone), 24 Volt DC, Red, With The Word "FIRE" On Housing, Not Compatible With Signal Master (EST3 G1RF-P) .....	138.24	57.76
	28 46 13 31-0147	EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), White (EST3 G1-CVM) .....	301.40	57.76
	28 46 13 31-0148	EA Genesis Chime-Strobe (15, 30, 75, Or 110 cd Output, High Or Low dB Output), Red (EST3 G1RF-CVM) .....	301.40	57.76
	28 46 13 31-0149	EA Genesis Chime (Selectable High Or Low dB Output), White (EST3 G1-C) .....	205.55	57.76
	28 46 13 31-0150	EA Genesis Chime (Selectable High Or Low dB Output), Red (EST3 G1RF-C) .....	205.55	57.76
	28 46 13 31-0151	EA Wall Strobe, 15/75 cd, White, With The Word "FIRE" On Housing (EST3 G1F-V1575) .....	185.52	57.76
	28 46 13 31-0152	EA Multi-cd Strobe, 24 Volt DC, White, With The Word "FIRE" On Housing (EST3 G1F-VM) .....	185.52	57.76
	28 46 13 31-0153	EA Multi-Candela Strobe, 24 Volt DC, Red, With The Word "FIRE" On Housing (EST3 G1RF-VM) .....	185.52	57.76
	28 46 13 31-0154	EA Wall Strobe, 15/75 cd, Red, With The Word "FIRE" On Housing (EST3 G1RF-V1575) .....	185.52	57.76
	28 46 13 31-0155	EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VM) .....	191.94	57.76
	28 46 13 31-0156	EA Genesis Ceiling Strobe, 15-95 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCFR-VM) .....	191.94	57.76
	28 46 13 31-0157	EA Genesis Ceiling Strobe, 95-177 Multi-cd, FIRE Marking, Mounts To 4" Square x 2-1/8" Box (EST3 GCF-VMH) .....	206.93	57.76
	28 46 13 31-0158	EA Genesis Ceiling Strobe, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VM) .....	191.94	57.76
	28 46 13 31-0159	EA Genesis Ceiling Strobe, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-VMH) .....	191.94	57.76
	28 46 13 31-0160	EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, White (EST3 G1T-FIRE) .....	124.21	57.76
	28 46 13 31-0161	EA Genesis Trim Plate (For Two-Gang Or 4" Square Boxes) With "FIRE" Markings, Red (EST3 G1RT-FIRE) .....	124.21	57.76
<b>28 46 13 31-0162</b>		<b>Wall Speakers And Speaker Strobes</b> <small>(28 46 13 31-0135)</small>		
	28 46 13 31-0163	EA Multi-Wattage 25 VRMS Speaker (EST3 G4-S2) .....	157.90	57.76
	28 46 13 31-0164	EA Multi-Candela/Wattage 25 VRMS Speaker-Strobe (EST3 G4-S2VM) .....	230.22	57.76
	28 46 13 31-0165	EA Multi-Wattage 70 VRMS Speaker (EST3 G4-S7) .....	157.90	57.76
	28 46 13 31-0166	EA Multi-Candela/Wattage 70 VRMS Speaker-Strobe (EST3 G4-S7VM) .....	230.22	57.76
	28 46 13 31-0167	EA Surface Box, White, For Genesis Speaker (EST3 G4B) .....	79.24	30.80
	28 46 13 31-0168	EA Surface Box, Red, For Genesis Speaker (EST3 G4RB) .....	79.24	30.80

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
28 46 13 31-0169		<b>Ceiling Speakers And Speaker Strobes</b> <small>(28 46 13 31-0135)</small>			
28 46 13 31-0170	EA	Genesis Ceiling Speaker, 70 VRMS, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7).....	184.13		57.76
28 46 13 31-0171	EA	Genesis Ceiling Speaker/Strobe, 70 VRMS, 15-95 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VM).....	230.22		57.76
28 46 13 31-0172	EA	Genesis Ceiling Speaker/Strobe, 70 VRMS, 95-177 Multi-cd, Mounts To 4" Square x 2-1/8" Box (EST3 GC-S7VMH).....	244.81		57.76
28 46 13 31-0173		<b>Harsh Environment Signals</b> <small>(28 46 13 31-0135)</small>			
28 46 13 31-0174	EA	Temporal Horn, Self-Synchronized, 24 Volt DC (EST3 757-1A-T).....	166.17		57.76
28 46 13 31-0175	EA	15/75 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-7A-T).....	223.74		57.76
28 46 13 31-0176	EA	110 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-8A-T).....	223.74		57.76
28 46 13 31-0177	EA	15 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-5A-T).....	206.63		57.76
28 46 13 31-0178	EA	15/75 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-7A-T).....	195.25		57.76
28 46 13 31-0179	EA	30 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-3A-T).....	206.63		57.76
28 46 13 31-0180	EA	60 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-6A-T).....	206.63		57.76
28 46 13 31-0181	EA	110 Candela Synchronized, 24 Volt DC, Strobe (EST3 405-8A-T).....	206.63		57.76
28 46 13 31-0182	EA	15/75 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-7A-T).....	229.10		65.46
28 46 13 31-0183	EA	110 Candela Synchronized, 24 Volt DC, Red, Outdoor Listed, Strobe (EST3 CS405-8A-T).....	229.10		65.46
28 46 13 31-0184	EA	15 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-5A-T).....	173.11		57.76
28 46 13 31-0185	EA	30 Candela Temporal Horn/Strobe, 24 Volt DC (EST3 757-3A-T).....	218.27		57.76
28 46 13 31-0186		<b>Fire Alarm Bells</b> <small>(28 46 13 31-0135)</small>			
28 46 13 31-0187	EA	10" Single Stroke Fire Alarm Bells, 24 Volt DC (EST3 323D-10AW).....	239.71		57.76
28 46 13 31-0188	EA	6" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-6AW).....	196.72		57.76
28 46 13 31-0189	EA	10" Vibrating Fire Alarm Bells, 24 Volt DC (EST3 439D-10AW).....	215.07		57.76
28 46 13 31-0190		<b>Multiple Tone Signal</b> <small>(28 46 13 31-0135)</small>			
28 46 13 31-0191	EA	27 Tone Selectable Signal, 24 Volt DC (EST3 5530MD-24AW).....	1,405.53		1,347.78
28 46 13 31-0192		<b>Multi-Purpose Loudspeaker</b> <small>(28 46 13 31-0135)</small>			
28 46 13 31-0193	EA	15 Watt Loudspeaker, Gray (EST3 HPSA15G2570).....	308.28		57.76
28 46 13 31-0194	EA	15 Watt Loudspeaker, Red (EST3 HPSA15R2570).....	308.28		57.76
28 46 13 31-0195		<b>Bell/Strobe Plate</b> <small>(28 46 13 31-0135)</small>			
28 46 13 31-0196	EA	Bell/Strobe Plate - 15cd (EST3 403-5A-R).....	156.62		30.80
28 46 13 31-0197		<b>Mounting Accessories</b> <small>(28 46 13 31-0135)</small>			
28 46 13 31-0198	EA	Surface Mount Box - Indoor, Red, 1-Gang (EST3 27193-11).....	80.57		30.80
28 46 13 31-0199	EA	One Gang Surface Mount Box, Red, No Bottom KO (EST3 27193-11-NY).....	80.57		30.80
28 46 13 31-0200	EA	Surface Mount Box - Indoor, White, 1-Gang (EST3 27193-16).....	80.57		30.80
28 46 13 31-0201	EA	Surface Mount Box - Indoor, Red, 2-Gang (EST3 27193-21).....	80.57		30.80
28 46 13 31-0202	EA	Surface Mount Box - Indoor, White, 2-Gang (EST3 27193-26).....	80.57		30.80
28 46 13 31-0203		<b>Firefighters' Telephones</b> <small>(28 46 13 31-0135)</small>			
28 46 13 31-0204	EA	Remote Telephone Warden Station - Flush, Red, 5' Armored Cable, Hinged Door With Magnetic Latch, 4-State (EST3 6830-NY-F4).....	1,277.62		96.26
28 46 13 31-0205	EA	Four State Remote Telephone Warden Station - Surface, Armored Cord (EST3 6830-NY-S4).....	735.08		96.26
28 46 13 31-0206	EA	Remote Telephone Warden Station - Flush, Armored Cord (EST3 6830-NY-F).....	539.70		96.26
28 46 13 31-0207	EA	Telephone Handset Assembly - Red c/w 60" Coiled Cord (EST3 6830-1).....	403.50		96.26
28 46 13 31-0208	EA	Remote Telephone Handset Station - 4-State, Red, 5' Coiled Cord (EST3 6830-4).....	710.77		96.26
28 46 13 31-0209	EA	Three State Telephone Handset Assembly - Red, 60" Coiled Cord, Push To Talk Button (EST3 6830-5A).....	452.11		96.26
28 46 13 31-0210	EA	Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Coiled Cord (EST3 6830-5A-4).....	796.87		96.26
28 46 13 31-0211	EA	Three State Telephone Handset Assembly - Red, 60" Armored Cord, Push To Talk Button (EST3 6830-6A).....	468.31		96.26
28 46 13 31-0212	EA	Remote Telephone Handset Station - 4-State, Red, 'Push To Talk' Button, 5' Armored Cable (EST3 6830-6A-4).....	907.12		96.26
28 46 13 31-0213	EA	Portable Handset Receptacle, 1 Gang Stainless Steel Faceplate (EST3 6833-1).....	107.07		30.80
28 46 13 31-0214	EA	Portable Telephone Receptacle - 1-Gang, SS, 4-State (EST3 6833-4).....	121.18		30.80
28 46 13 31-0215	EA	Portable Telephone Handset - Black, Coiled Cord (EST3 6830-3).....	155.72		
28 46 13 31-0216	EA	Portable Telephone Handset - Red, Coiled Cord (EST3 6700-0061).....	155.72		
28 46 13 31-0217	EA	Frontplate - Flush Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-1).....	246.28		38.51
28 46 13 31-0218	EA	Frontplate - Flush Mount, Red Finish, Non-Break Glass Type With Two Keys (EST3 6831-2).....	302.42		38.51
28 46 13 31-0219	EA	Frontplate - Surface Mount, Red Finish, Break Glass Type, With Two Keys (EST3 6831-3).....	218.21		38.51
28 46 13 31-0220	EA	Frontplate - Surface Mount, Red Finish, Non-Break Glass Type, With Two Keys (EST3 6831-4).....	209.95		38.51
28 46 13 31-0221	EA	Wallbox - Flush Or Surface Mount, Red Finish, 14" x 8-1/2" x 3-1/2" (EST3 6832-1).....	166.80		57.76
28 46 13 31-0222	EA	Portable Handset Storage Cabinet, Surface Mount, With Keylock, Red Finish (EST3 TCS-6).....	1,310.00		77.01
28 46 13 31-0223		<b>Mass Notification EC Appliances</b> <small>(28 46 13 31-0135)</small>			
28 46 13 31-0224	EA	G1 Wall, Strobe, White Housing, Alert Markings, Amber Lens (EST3 G1WA-VMA).....	191.98		57.76
28 46 13 31-0225	EA	G1 Wall, Strobe, White Housing, Alert Markings, Clear Lens (EST3 G1WA-VMC).....	186.15		57.76
28 46 13 31-0226	EA	G1 Wall, Strobe, White Housing, No Markings, Amber Lens (EST3 G1WN-VMA).....	191.98		57.76
28 46 13 31-0227	EA	G1 Wall, Strobe, White Housing, No Markings, Clear Lens (EST3 G1WN-VMC).....	186.15		57.76



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0228	EA			G1 Wall, White Trim Ring, Alert Marking (EST3 G1WT-ALERT).....	30.07	11.56
<b>28 46 13 31-0229</b>				<b>Hazardous Location Devices</b> (28 46 13 31-0002)		
<b>28 46 13 31-0230</b>				<b>Detectors, Rate Compensation Heat, For Explosion/Weather/Moisture Proof And Ordinary Location</b> (28 46 13 31-0229)		
28 46 13 31-0231	EA			Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 135 Degree F (EST3 302-135) .....	174.09	57.76
28 46 13 31-0232	EA			Heat Detector, Rate Compensation, Interior Vertical Surface Mount FM And UL, 194 Degree F (EST3 302-194) .....	174.09	57.76
28 46 13 31-0233	EA			Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 135 Degree F (EST3 302-AW-135) .....	180.40	57.76
28 46 13 31-0234	EA			Heat Detector - Rate Compensation, All-Weather Vertical Mounting, FM And UL, 194 Degree F (EST3 302-AW-194) .....	180.40	57.76
28 46 13 31-0235	EA			Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 135 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-135) .....	238.75	57.76
28 46 13 31-0236	EA			Heat Detector, Rate Compensation, Explosion Proof Mounting, Interior Vertical Surface Mount FM And UL, 194 Degree F, Requires JALX-11 Or Equal (EST3 302-EPM-194) .....	238.75	57.76
28 46 13 31-0237	EA			Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 135 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-135) .....	180.40	57.76
28 46 13 31-0238	EA			Heat Detector, Rate Compensation, All-Weather Vertical, Box Mount (1/2" NPT), FM And UL, 194 Degree F, Requires STONCO27 Or Equal (EST3 302-ET-194).....	180.40	57.76
<b>28 46 13 31-0239</b>				<b>Hazardous Locations Fire Alarm Station</b> (28 46 13 31-0229)		
28 46 13 31-0240	EA			Hazardous Location Fire Alarm Station (EST3 XAL53).....	1,351.18	96.26
28 46 13 31-0241	EA			Explosion Proof, Weatherproof, Fire Alarm Station, Single Action, Cat 45 Key Reset, Terminal Connections, DPDT (EST3 MPSR1-D45WX-GE) .....	1,288.23	96.26
<b>28 46 13 31-0242</b>				<b>Hazardous Location Strobes</b> (28 46 13 31-0229)		
28 46 13 31-0243	EA			Explosion Proof Strobe (EST3 116DEXSTC-FJ) .....	1,973.13	57.76
28 46 13 31-0244	EA			Wall Bracket Mounting Elbow (EST3 116EX-B).....	371.75	19.25
28 46 13 31-0245	EA			Ceiling / Wall Mounting Module (EST3 116EX-C).....	485.49	23.10
28 46 13 31-0246	EA			Pendant Mounting Module (EST3 116EX-P) .....	358.79	23.10
<b>28 46 13 31-0247</b>				<b>Hazardous Location Bells</b> (28 46 13 31-0229)		
28 46 13 31-0248	EA			6" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-6AW) .....	1,430.48	57.76
28 46 13 31-0249	EA			8" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-8AW) .....	1,466.92	57.76
28 46 13 31-0250	EA			10" Hazardous Location Bells, 24 Volt DC (EST3 439DEX-10AW) .....	1,480.04	57.76
<b>28 46 13 31-0251</b>				<b>Hazardous Location Horns</b> (28 46 13 31-0229)		
28 46 13 31-0252	EA			Hazardous Location Horns (EST3 888D-N5).....	1,399.07	57.76
28 46 13 31-0253	EA			Explosion Proof Horn, Diode Polarized, 24 Volt DC (EST3 889D-AW).....	1,146.90	57.76
<b>28 46 13 31-0254</b>				<b>Door Holders And Relays</b> (28 46 13 31-0002)		
<b>28 46 13 31-0255</b>				<b>Electromagnetic Door Holders</b> (28 46 13 31-0254)		
28 46 13 31-0256	EA			24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Single, Floor Mount (EST3 1501-AQN5).....	269.74	57.76
28 46 13 31-0257	EA			24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Double, Floor Mount (EST3 1502-AQN5) .....	342.88	57.76
28 46 13 31-0258	EA			24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount (EST3 1504-AQN5) .....	232.39	57.76
28 46 13 31-0259	EA			24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Flush, Wall Mount, Short Catch Plate (EST3 1505-AQN5) .....	232.39	57.76
28 46 13 31-0260	EA			24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Surface, Wall Mount (EST3 1508-AQN5).....	235.77	57.76
28 46 13 31-0261	EA			24 Volt AC / 24 Volt DC / 120 Volt AC, Door Holder, Completely Flush, Wall Mount (EST3 1509-AQN5) .....	238.99	57.76
<b>28 46 13 31-0262</b>				<b>Control Relays, Multi-Voltage</b> (28 46 13 31-0254)		
28 46 13 31-0263	EA			Single SPDT With LED, Adhesive Tape Mounting (EST3 PAM1) .....	54.48	11.56
<b>28 46 13 31-0264</b>				<b>FireShield Plus</b> (28 46 13 31-0002)		
<b>28 46 13 31-0265</b>				<b>3 Zone System</b> (28 46 13 31-0264)		
28 46 13 31-0266	EA			Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302R) .....	1,521.57	462.06
28 46 13 31-0267	EA			Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302RD) .....	2,193.90	616.08
28 46 13 31-0268	EA			Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP302G) .....	1,521.57	462.06
28 46 13 31-0269	EA			Conventional Fire Alarm Control Panel, 3 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP302GD).....	2,193.90	616.08
28 46 13 31-0270	EA			Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G) .....	101.53	19.25
28 46 13 31-0271	EA			Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R).....	101.53	19.25
<b>28 46 13 31-0272</b>				<b>5 Zone System</b> (28 46 13 31-0264)		

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0273 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502R) .....	1,623.57	462.06
28 46 13 31-0274 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502RD) .....	2,290.08	616.08
28 46 13 31-0275 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries (EST3 FSP502G) .....	1,623.57	462.06
28 46 13 31-0276 EA Conventional Fire Alarm Control Panel, 5 Class B IDC Zones, 2 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 10 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP502GD) .....	2,290.08	616.08
28 46 13 31-0277 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Gray (EST3 F-TRIM35G) .....	101.53	19.25
28 46 13 31-0278 EA Semi Flush Trim Kit For 3 Or 5 Zone Enclosures, Red (EST3 F-TRIM35R) .....	101.53	19.25
<b>28 46 13 31-0279 10 Zone System (28 46 13 31-0264)</b>		
28 46 13 31-0280 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004R) .....	2,325.05	616.08
28 46 13 31-0281 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Red Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004RD) .....	2,997.39	770.10
28 46 13 31-0282 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries (EST3 FSP1004G) .....	2,281.34	616.08
28 46 13 31-0283 EA Conventional Fire Alarm Control Panel, 10 Class B IDC Zones, 4 Class B NAC's, 3.5 Amperes NAC Power, Gray Enclosure, 120 Volt AC, Capacity For (2) 17 Amp Hours Batteries, With Upload/Download DACT (EST3 FSP1004GD) .....	2,997.39	770.10
28 46 13 31-0284 EA Semi Flush Trim Kit For 10 Zone Enclosures, Gray (EST3 F-TRIM10G) .....	117.31	19.25
28 46 13 31-0285 EA NAC Power Expansion Transformer, 120 Volt AC, Increases 10 Zone FACP NAC (EST3 F-XTR120) .....	215.78	38.51
<b>28 46 13 31-0286 FireShield Plus Off Premise Communication Options (28 46 13 31-0264)</b>		
28 46 13 31-0287 EA F-Series Upload/Download DACT And Modem, Dual Line, With 2x16 LCD (EST3 F-DACT) .....	455.88	38.51
<b>28 46 13 31-0288 FireShield Plus Remote LED Annunciators (28 46 13 31-0264)</b>		
28 46 13 31-0289 EA Remote System Indicator, Power, Alarm, Supervisory, Trouble And Ground Fault LED's With Local Buzzer, Single Gang, And White Trim Plate (EST3 FSRSI) .....	210.08	57.76
28 46 13 31-0290 EA Remote Zone Indicator, Contains 5 Red LED's For Alarm Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-A) .....	210.08	57.76
28 46 13 31-0291 EA Remote Zone Indicator, Contains 5 Bi-Color LED's (Red/Yellow) For Alarm Or Supervisory Zone Indication, With Jumper Selectable Zone Settings, Single Gang, And White Trim Plate (EST3 FSRZI-SA) .....	217.51	57.76
28 46 13 31-0292 EA Remote Annunciator Trim Plate - 2 Gang - White (EST3 FSAT2) .....	42.06	11.56
28 46 13 31-0293 EA Remote Annunciator Trim Plate - 3 Gang - White (EST3 FSAT3) .....	51.57	11.56
28 46 13 31-0294 EA Remote Annunciator Trim Plate - 4 Gang - White (EST3 FSAT4) .....	74.42	11.56
<b>28 46 13 31-0295 FireShield Plus Remote 10 Zone LED Annunciators (28 46 13 31-0264)</b>		
28 46 13 31-0296 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10) .....	610.95	57.76
28 46 13 31-0297 EA Remote LED Annunciator, With Common System Indicators, 10 Zone Indicators And Common Control Switches, White Housing, Mounts To 4" Electrical Box, For Use With 10 Zone Panels Only (EST3 FSRA10C) .....	669.24	57.76
28 46 13 31-0298 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Gray (EST3 RA-ENC1) .....	222.73	38.51
<b>28 46 13 31-0299 FireShield Plus Remote Relays And Interfaces (28 46 13 31-0264)</b>		
28 46 13 31-0300 EA Remote Relay Module, 5 Form C Contacts, Jumper Selectable Operation, With Mounting Track (EST3 FSRRM24) .....	234.62	38.51
28 46 13 31-0301 EA 11" Snap Track Holds 2-4 RRRMs, Used To Mount FSRRMs In MFC-A Or Other Listed Enclosure, MFC-A Will Hold Two FSRRM-11S (EST3 FSRRM-S1) .....	99.90	23.10
28 46 13 31-0302 EA Common Function Graphic Driver/Interface - 9 Relays And 5 Switch Inputs For Common System Indicators And Controls (EST3 FSUIM) .....	365.53	38.51
<b>28 46 13 31-0303 FireShield Plus Accessories (28 46 13 31-0264)</b>		
28 46 13 31-0304 EA Resistor Kit With 1-3.6K And 1-1.1K (46071-0409) (EST3 EOL3.6-1.1) .....	22.70	
28 46 13 31-0305 EA 4.7k UL End Of Line Resistor With FireShield Panels (EST3 EOL47PK7) .....	14.73	
<b>28 46 13 31-0306 iO Series Fire Control Panels (28 46 13 31-0002)</b>		
<b>28 46 13 31-0307 Intelligent Analog Control Panels (28 46 13 31-0306)</b>		
28 46 13 31-0308 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18a/h Batteries, English (EST3 IO500G) .....	4,619.18	770.10
28 46 13 31-0309 EA FACP, 1 Intelligent Loop Supporting 125 Detectors/125 Modules, 2nd Loop Optional, 4 Class B NAC's, 6.5 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 18 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 IO500GD) .....	4,901.87	770.10
28 46 13 31-0310 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, English (EST3 IO64G) .....	3,688.36	616.08
28 46 13 31-0311 EA FACP, 1 Loop, 64 Intelligent Devices Max, 2 Class B NAC's, 4.25 Amperes Power Supply, Gray Door, 115 Volt AC, Capacity For Up (2) 10 Amp/hour Batteries, With Dual Line Dialer/Modem, English (EST3 IO64GD) .....	3,819.50	616.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 13 31-0312</b> Option Modules And Accessories For iO Series <small>(28 46 13 31-0306)</small>		
28 46 13 31-0313 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Left Side Mounting, Zones 1-16 (EST3 D16L-iO-1).....	406.95	57.76
28 46 13 31-0314 EA 16 Zone LED Annunciator, 2 LED's Per Zone, Customizable Insert Labels, Right Side Mounting, Zones 17-32, Requires D16L-iO-1 (EST3 D16L-iO-2).....	261.23	57.76
28 46 13 31-0315 EA Serial Interface, RS232, 4 Terminal Connections For Supervised/Unsupervised Printers And Connection To PC's (EST3 SA-232).....	261.23	57.76
28 46 13 31-0316 EA Class A NAC Module, For 64 Point Systems Only, Mounts To Main Board (EST3 SA-CLA).....	222.73	38.51
28 46 13 31-0317 EA Dialer/Modem, Two Telephone Line Connections, RJ31, Mounts To Base Plate (EST3 SA-DACT).....	440.48	30.80
28 46 13 31-0318 EA Ethernet Port Interface, RJ45, Mounts To Base Plate (EST3 SA-ETH).....	790.20	30.80
28 46 13 31-0319 EA Trim Kit For Semi-Flush Mounting 64 Point Systems (EST3 SA-TRIM1).....	99.71	19.25
28 46 13 31-0320 EA Trim Kit For Semi-Flush Mounting 500 Point Systems (EST3 SA-TRIM2).....	114.28	19.25
28 46 13 31-0321 EA Expansion Loop For iO500 Systems, 125 Detectors/125 Modules, Mounts On Main Board (EST3 XAL250).....	1,465.49	77.01
<b>28 46 13 31-0322</b> Remote Annunciators For iO Series <small>(28 46 13 31-0306)</small>		
28 46 13 31-0323 EA Remote Annunciator, 80 Character LCD, Common System Indicators, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD).....	807.66	57.76
28 46 13 31-0324 EA Remote Annunciator, 80 Character LCD, Common System Indicators And Controls, Beige Housing, Mounts To 4" Box With Supplied Ring (EST3 RLCD-C).....	844.10	57.76
<b>28 46 13 31-0325</b> Remote Annunciator Accessories <small>(28 46 13 31-0306)</small>		
28 46 13 31-0326 EA 24 Expander Cable Assembly, With Cable And Hardware (EST3 730073).....	96.80	19.25
28 46 13 31-0327 EA 12 Expander Cable (Cable Only) (EST3 7120313-01).....	67.65	19.25
28 46 13 31-0328 EA 24 Expander Cable (Cable Only) (EST3 7120313-02).....	89.50	19.25
28 46 13 31-0329 EA Single Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC1).....	261.23	57.76
28 46 13 31-0330 EA Dual Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC2).....	297.65	57.76
28 46 13 31-0331 EA Three Unit Remote Annunciator Enclosure, 4" Box Mount, Key Locked Door, Plexiglas Window, Beige (EST3 RA-ENC3).....	334.09	57.76
28 46 13 31-0332 EA Blank Zone Card Insert For RLEDx Controllers (EST3 RA-LED16ZC).....	67.65	19.25
28 46 13 31-0333 EA Blank Zone Card Insert For RLED24x Controllers (EST3 RA-LED24ZC).....	67.65	19.25
28 46 13 31-0334 EA Remote Key Switch, Single Gang Mount, Provides Keyed Control To Enable/Disable Common Control Switches On Remote Annunciators (EST3 RKEY).....	131.33	19.25
<b>28 46 13 31-0335</b> System Accessories <small>(28 46 13 31-0306)</small>		
28 46 13 31-0336 EA Battery Cabinet, 14" x 18.25" x 7.25" Free Standing Cabinet With Key Lock, Supports Up To 40 Amp Hours Batteries, Will Hold Up To Two 12 Volt DC, 24 Ampere Batteries (EST3 BC-1).....	469.05	77.01
28 46 13 31-0337 EA Isolator Module - RS232, For Use With Short Haul Modems, VDU-3, CCA Series, CGP Series And FCOM-232, Requires 1/2 Size Cabinet Footprint (EST3 IOP3A).....	2,226.54	616.08
<b>28 46 13 31-0338</b> Conventional Initiating Devices <small>(28 46 13 31-0002)</small>		
<b>28 46 13 31-0339</b> Detectors, Heat, Double Pole <small>(28 46 13 31-0338)</small>		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 13 31-0340 EA Heat Detector, 135 Degree F Fixed Temperature (CF135-2).....	194.03	57.76
28 46 13 31-0341 EA Heat Detector, 200 Degree F Fixed Temperature (CF200-2).....	194.03	57.76
28 46 13 31-0342 EA Heat Detector, 135 Degree F ROR/Fixed Temperature (CR135-2).....	194.03	57.76
28 46 13 31-0343 EA Heat Detector, 200 Degree F ROR/Fixed Temperature (CR200-2).....	194.03	57.76
<b>28 46 13 31-0344</b> Detectors, Rate Compensation Heat, Accessories <small>(28 46 13 31-0338)</small>		
28 46 13 31-0345 EA Heat Detector, Rate Compensation, Adapter Plate For Mounting 302 And 302-AW To Any 3 Outlet Box Or 4" Octagon Outlet Box (GE AP-P).....	128.55	57.76
28 46 13 31-0346 EA Explosion Proof Outlet Body With Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE JALX11).....	299.82	30.80
28 46 13 31-0347 EA 4" Weatherproof, Octagon Backbox And Cover, 1/2" Threaded Hubs On Back, Four Sides And Cover (GE STONCO27).....	105.41	38.51
<b>28 46 13 31-0348</b> Detectors, Heat, Fire-Lite <small>(28 46 13 31-0338)</small>		
Note: WARNING, Heat detectors are not Life Safety Devices, use for property protection only.		
28 46 13 31-0349 EA Explosion Heat Detector, 135 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-135).....	182.82	57.76
28 46 13 31-0350 EA Explosion Heat Detector, 194 Degree F Fixed Temperature, Rate-Anticipation Heat Detector, All-Weather Vertical Mounting (302-EPM-194).....	182.82	57.76
<b>28 46 13 31-0351</b> Audio Notification Systems (Standalone Voice Evacuation) <small>(28 46 13 31-0002)</small>		
<b>28 46 13 31-0352</b> Audio Notification Panels <small>(28 46 13 31-0351)</small>		
28 46 13 31-0353 EA Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS100MDG).....	5,868.05	770.10
28 46 13 31-0354 EA Audio Notification Panel, 100 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS100MDR).....	5,868.05	770.10
28 46 13 31-0355 EA Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS25MDG).....	4,454.58	770.10

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0356	EA	Audio Notification Panel, 25 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS25MDR) .....	4,454.58	770.10
28 46 13 31-0357	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Gray Cabinet (GE ANS50MDG) .....	5,154.02	770.10
28 46 13 31-0358	EA	Audio Notification Panel, 50 Watt Amplifier, DMR, Temporal Pattern, Power Supply And Battery Charger, Standard Message, Microphone, And 14.5" x 18" x 4" Red Cabinet (GE ANS50MDR) .....	5,154.02	770.10
<b>28 46 13 31-0359</b>		<b>Audio Notification Expander Panels</b> <small>(28 46 13 31-0351)</small>		
28 46 13 31-0360	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS100XG) .....	4,571.15	770.10
28 46 13 31-0361	EA	Audio Expander Panel, 100W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS100XR) .....	4,571.15	770.10
28 46 13 31-0362	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS25XG) .....	3,201.39	770.10
28 46 13 31-0363	EA	Audio Expander Panel, 25 Watt Without DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS25XR) .....	3,201.39	770.10
28 46 13 31-0364	EA	Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Gray Cabinet (GE ANS50XG) .....	4,002.85	770.10
28 46 13 31-0365	EA	Audio Expander Panel, 50W With Out DMR Or Microphone, Power Supply And Battery Charger, 14.5" x 18" x 4" Red Cabinet (GE ANS50XR) .....	4,002.85	770.10
<b>28 46 13 31-0366</b>		<b>Audio Notification Output Accessories</b> <small>(28 46 13 31-0351)</small>		
28 46 13 31-0367	EA	Zone Adapter, 1 Circuit To 2 Circuit's (GE ANSZC2B) .....	169.66	19.25
28 46 13 31-0368	EA	Zone Splitter, 2 Class A Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS2A) .....	732.74	38.51
28 46 13 31-0369	EA	Zone Splitter, 4 Class B Circuits With Zone Selection Switches And All-Call Switch (GE ANSZS4B) .....	732.74	38.51
28 46 13 31-0370	EA	Class A Converter (GE ANSZSC4A) .....	528.74	38.51
<b>28 46 13 31-0371</b>		<b>Audio Notification Remote Microphone</b> <small>(28 46 13 31-0351)</small>		
28 46 13 31-0372	EA	Microphone (GE ANSMIKE) .....	208.16	38.51
28 46 13 31-0373	EA	Remote Microphone, Supervised In Surface/Semi-Flush Gray Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMG) .....	805.60	38.51
28 46 13 31-0374	EA	Remote Microphone, Supervised In Surface/Semi-Flush Red Cabinet, Requires EVX-SC Card In Evacuation Panel (GE ANSREMR) .....	805.60	38.51
28 46 13 31-0375	EA	Remote Microphone Supervisory Card, One Per System, Supervises Up To 5 Remote Microphones (GE ANSREMSUP) .....	184.23	19.25
28 46 13 31-0376	EA	Relay Card For Supervision/Zone Splitter To Remote Microphone (GE ANSZSR) .....	104.07	19.25
<b>28 46 13 31-0377</b>		<b>Audio Notification Accessories</b> <small>(28 46 13 31-0351)</small>		
28 46 13 31-0378	EA	Audio Matching - Line Input/Output Card (GE ANSAUX) .....	339.30	38.51
28 46 13 31-0379	EA	Class B Backup Amplifier Switching Module (GE ANSBKUP) .....	339.30	38.51
28 46 13 31-0380	EA	Class A Backup Amplifier Switching Module (GE ANSBKUPA) .....	339.30	38.51
28 46 13 31-0381	EA	Eight Input Remote Serial Interface Module, Accepts Dry Contact Interface To Control Up To 8 Messages, Message Recording Included With Module, For Industrial Signaling Only, Not UL Listed For Fire Alarm / Life Safety Applications (GE ANRSI8) .....	732.74	38.51
<b>28 46 13 31-0382</b>		<b>Audio Notification Modules, Without Cabinet And Transformer</b> <small>(28 46 13 31-0351)</small>		
28 46 13 31-0383	EA	100W Expander Module (No Microphone OR DMR), Requires Transformer Ordered Separately (GE ANS100A) .....	2,645.81	77.01
		Note: Excludes cabinet.		
28 46 13 31-0384	EA	100W Expander Module With Microphone (No DMR), Requires Transformer Ordered Separately (GE ANS100AM) .....	2,776.96	77.01
		Note: Excludes cabinet.		
28 46 13 31-0385	EA	100W Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS100AMD) .....	3,826.13	77.01
		Note: Excludes cabinet.		
28 46 13 31-0386	EA	25 Watt Expander Module (No Microphone Or DMR), Requires Transformer Ordered Separately (GE ANS25A) .....	1,465.49	77.01
		Note: Excludes cabinet.		
28 46 13 31-0387	EA	25 Watt Expander Module With Microphone (No DMR), Requires Transformer (GE ANS25AM) .....	1,465.49	77.01
		Note: Excludes cabinet.		
28 46 13 31-0388	EA	25 Watt Audio Notification Module With DMR And Microphone, Requires Transformer Ordered Separately (GE ANS25AMD) .....	2,645.81	77.01
28 46 13 31-0389	EA	50W Expander Module (No Microphone Or DMR) (GE ANS50A) .....	2,121.22	77.01
		Note: Excludes cabinet.		
28 46 13 31-0390	EA	50W Expander Module With Microphone (No DMR) (GE ANS50AM) .....	2,252.37	77.01
		Note: Excludes cabinet.		
28 46 13 31-0391	EA	50W Audio Notification Module With DMR And Microphone (GE ANS50AMD) .....	3,301.54	77.01
		Note: Excludes cabinet.		
28 46 13 31-0392	EA	Power Transformer, Open Frame, 28 Volt AC At 180 VA (EVAX 50/100) (GE ANST28180) .....	169.66	19.25
28 46 13 31-0393	EA	Power Transformer, Open Frame, 28 Volt AC At 100 VA (EVAX 25) (GE ANST2885) .....	127.46	19.25
<b>28 46 13 31-0394</b>		<b>Simplex Fire Alarm</b> <small>(28 46 13 31)</small>		
<b>28 46 13 31-0395</b>		<b>4100 Fire Alarm Control Panel</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0396	EA	4100U Master Controller Assembly With LCD And Operator Interface, 9 Amperes System Power Supply/Battery Charger (SPS), 250 Point IDNet Interface, 3 NACS, Auxiliary Relay And External RUI Communications Interface, 120 Volt AC Input (Simplex 4100-9111) .....	7,494.18	769.11





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0397 EA 4100ES NDU With Master Controller, LCD And Operator Interface, Network Interface Module (Select Media Card Separately), 9 Amperes System Power Supply/Battery Charger, And External RUI Communications Interface (Power Supply/Battery Charger Is An SPS With Its IDNet Channel And NACs Disabled), 120 Volt AC Input (Simplex 4100-9141) .....	8,127.02	769.11
28 46 13 31-0398 EA 4100ES NDU With VCC Includes The First Bay Equipment Described For The NDU And A Second Bay Assembly With Separate: Master Controller For Voice Functions, Network Interface (Select Media Card Separately), And A Standard SPS With 250 Point IDNet Channel; And 3, 3 A Class A/B NACs Capable Of SmartSync Two-Wire Operation, 120 V Input (Simplex 4100-9142) .....	11,441.50	769.11
28 46 13 31-0399 EA Up To 127 Points, IDNet Module, (Simplex 4100-3104) .....	5,007.27	769.11
28 46 13 31-0400 EA Up To 64 Points, IDNet Module, (Simplex 4100-3105) .....	4,042.16	769.11
28 46 13 31-0401 EA Expansion Power Supply, 3 NACs, 120 Volt AC (Simplex 4100-5101) .....	2,278.50	192.28
28 46 13 31-0402 EA Alarm Relay, 3 Form C Relays, 2 Amperes At 32 Volt DC, For SPS Or RPS (Simplex 4100-6033) .....	475.98	38.46
28 46 13 31-0403 EA Dual Port RS-232 Interface Card (Simplex 4100-6038) .....	1,339.56	38.46
<b>28 46 13 31-0404 4100U Backbox</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0405 EA 2 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9425) .....	2,355.32	153.82
28 46 13 31-0406 EA 3 Bay Backbox With Glass Door And Dress Panel (Simplex 2975-9443) .....	3,294.25	153.82
<b>28 46 13 31-0407 DACT (Digital Alarm Communicator Transmitter)</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0408 EA 6 Zone Fire Control Communicator (Silent Knight SK-5104) .....	1,286.92	76.91
<b>28 46 13 31-0409 4010 Fire Alarm Control Panel</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0410 EA 120 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, External N2 Communications Interface, And Internal Common Event Reporting DACT (Simplex 4010-9101) .....	7,106.29	769.11
28 46 13 31-0411 EA 240 Volt AC Fire Alarm Control Panel With Door, Cabinet, Power Supply/Battery Charger, IDNet Interface, 4 NACs, 2 Programmable Auxiliary Relays, And External N2 Communications Interface (Simplex 4010-9201) .....	6,913.81	769.11
28 46 13 31-0412 EA Dual Circuit Class A NAC Adapter Module (Simplex 4010-9806) .....	251.66	38.46
28 46 13 31-0413 EA Dual RS-232 Interface Module Expansion Slot Option (Simplex 4010-9811) .....	1,046.53	38.46
28 46 13 31-0414 EA Single RS-232 Interface Module With Service Modem Connection Expansion Slot Option (Simplex 4010-9812) .....	1,433.70	38.46
28 46 13 31-0415 EA 120 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9813) .....	743.32	38.46
28 46 13 31-0416 EA 240 Volt AC, 4 Amperes, Expansion Power Supply Expansion Module (Simplex 4010-9823) .....	803.26	38.46
28 46 13 31-0417 EA Battery Meter Module Expansion Module (Simplex 4010-9820) .....	309.89	38.46
<b>28 46 13 31-0418 Printer</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0419 EA 24 Pin Dot Matrix Printer (Simplex 4190-9013) .....	2,300.66	38.46
<b>28 46 13 31-0420 NAC Panel / Power Booster</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0421 EA 120 Volt AC, IDNet NAC Extender With 4, Class B (Style Y) NACs And 8 Amperes Power Supply (Simplex 4009-9201) .....	1,547.33	192.28
<b>28 46 13 31-0422 Battery</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0423 EA 50 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9296) .....	938.50	38.46
28 46 13 31-0424 EA 33 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9276) .....	628.01	38.46
28 46 13 31-0425 EA 6.2 Ampere Hours Sealed Lead Acid Battery (Simplex 2081-9272) .....	234.75	38.46
<b>28 46 13 31-0426 Interface Modules</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0427 EA Supervised Individual Addressable Modules (Simplex 4090-9001) .....	192.08	38.46
28 46 13 31-0428 EA Relay Individual Addressable Modules (Simplex 4090-9002) .....	383.73	38.46
28 46 13 31-0429 EA Relay SPDT With LED MR-801/T (Simplex 2088-9032) .....	101.79	38.46
28 46 13 31-0430 EA SmartSync™ Adapter Module For Non-Addressable Notification Appliance Circuits (NACs) (Simplex 4905-9815) .....	194.19	38.46
28 46 13 31-0431 EA Surface Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9817) .....	87.15	19.22
28 46 13 31-0432 EA Flush Mount Cover Plate For SmartSync Adapter Module (Simplex 4905-9818) .....	83.09	19.22
<b>28 46 13 31-0433 Pull Stations</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0434 EA Addressable Single Action Manual Pull Station (Simplex 4099-9001) .....	233.19	38.46
28 46 13 31-0435 EA N.O. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9101) .....	170.25	38.46
28 46 13 31-0436 EA N.C. Contacts, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9102) .....	182.41	38.46
28 46 13 31-0437 EA Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9103) .....	164.77	38.46

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0438 EA N.O. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9104).....	190.54	38.46
28 46 13 31-0439 EA N.C. Contacts, Break-Glass, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9105).....	283.13	38.46
28 46 13 31-0440 EA Single Action, Pre-Signal, N.O. Contacts, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9107).....	239.23	38.46
28 46 13 31-0441 EA Break-Glass, Pre-Signal, N.O. Contacts, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9108).....	279.81	38.46
28 46 13 31-0442 EA Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9754).....	136.43	38.46
28 46 13 31-0443 EA Local Alarm Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9755).....	143.86	38.46
28 46 13 31-0444 EA Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9756).....	167.78	38.46
28 46 13 31-0445 EA N.C. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9758).....	254.69	38.46
28 46 13 31-0446 EA Pre-Signal, N.O. Contacts, Push, Double Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9759).....	432.46	38.46
28 46 13 31-0447 EA Institutional Cover, Single Action, Non-Coded, Non-Addressable Manual Pull Stations (Simplex 2099-9762).....	149.96	38.46
28 46 13 31-0448 EA Surface Mount Steel Box For Manual Pull Station (Simplex 2975-9178).....	91.22	19.22
<b>28 46 13 31-0449 Weatherproof Pull Stations (28 46 13 31-0394)</b>		
28 46 13 31-0450 EA Weather Proof Single Action Pull Station, Cast Metal, B Lock, SPST (Simplex 2099-9138).....	230.28	46.15
28 46 13 31-0451 EA Surface Mount Cast Aluminum Box For Exterior Pull Station (Simplex 2975-9211).....	145.14	19.22
<b>28 46 13 31-0452 Heat / Smoke Sensor (28 46 13 31-0394)</b>		
28 46 13 31-0453 EA 32 To 122 Degree F Heat Sensor (Simplex 4098-9733).....	234.90	57.68
28 46 13 31-0454 EA Photoelectric Smoke Sensor (Simplex 4098-9714).....	334.51	57.68
28 46 13 31-0455 EA Sensor Base With Relay Driver (Simplex 4098-9791).....	624.77	19.22
28 46 13 31-0456 EA Standard Sensor Base (Simplex 4098-9792).....	320.25	19.22
28 46 13 31-0457 EA Remote Supervised Relay Accessory For Sensor Base With Relay Driver (Simplex 2098-9737)..... Note: Relay for 4098-9791	192.82	38.46
<b>28 46 13 31-0458 Explosion Proof Heat Detector (28 46 13 31-0394)</b>		
28 46 13 31-0459 EA 135 Degree F Explosion Proof Heat Detector (Simplex 2098-9488).....	247.64	57.68
28 46 13 31-0460 EA Explosion Proof Backbox (Killark JLX-21).....	156.17	19.22
28 46 13 31-0461 EA Explosion Proof Backbox Plugs (Killark CUP-2).....	14.88	3.85
<b>28 46 13 31-0462 Weatherproof Heat Detector (28 46 13 31-0394)</b>		
28 46 13 31-0463 EA 194 Degree F Fixed Hardwired Weatherproof Heat Detector (Simplex 2098-9490).....	183.63	57.68
<b>28 46 13 31-0464 200 Degree F Heat Detector (28 46 13 31-0394)</b>		
28 46 13 31-0465 EA 194 Degree F Heat Detector, ROR/Fixed Temperature (Simplex 5604)..... Note: Used in kiln rooms and kitchens.	155.02	57.68
<b>28 46 13 31-0466 Duct Smoke Sensor (28 46 13 31-0394)</b>		
28 46 13 31-0467 EA Duct Sensor Housing (Simplex 4098-9755).....	509.61	30.76
28 46 13 31-0468 EA Duct Sensor Housing With Supervised Output For Multiple Remote Relays, 4-Wire (Simplex 4098-9756)..... Note: Relay output for AHU shutdown.	695.37	69.22
28 46 13 31-0469 EA 46" To 71" Duct Sampling Tube (Simplex 2098-9798)..... Note: 25", 49", 73" or 97" sampling tube length.	80.79	19.22
28 46 13 31-0470 EA Remote Duct Test Station With Key Switch And Red LED Status Indicator (Simplex 2098-9806).....	195.71	57.68
<b>28 46 13 31-0471 Interior Horn (28 46 13 31-0394)</b>		
28 46 13 31-0472 EA Red With White FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9850).....	182.39	57.68
28 46 13 31-0473 EA White With Red FIRE Lettering, TrueAlert Addressable Electronic Horn (Simplex 4901-9853).....	182.39	57.68
<b>28 46 13 31-0474 Interior Horn Strobe (28 46 13 31-0394)</b>		
28 46 13 31-0475 EA 75Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9426).....	245.70	57.68
28 46 13 31-0476 EA 110Cd, Wall Mounted Horn Strobe, Red (Simplex 4903-9427).....	245.70	57.68
28 46 13 31-0477 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9127).....	231.25	57.68
28 46 13 31-0478 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9128).....	231.25	57.68
28 46 13 31-0479 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9129).....	231.25	57.68
28 46 13 31-0480 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9130).....	231.25	57.68
28 46 13 31-0481 EA Weatherproof, Red Housing, White Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9131).....	236.09	57.68
28 46 13 31-0482 EA Weatherproof, White Housing, Red Lettering, Horn And Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9132).....	236.09	57.68
28 46 13 31-0483 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9139).....	244.61	57.68
28 46 13 31-0484 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9140).....	240.68	57.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0485 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9141) .....	244.61	57.68
28 46 13 31-0486 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9142) .....	240.68	57.68
28 46 13 31-0487 EA Wall Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9227).....	231.25	57.68
28 46 13 31-0488 EA Ceiling Mount, Red Housing, White Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9228).....	231.25	57.68
28 46 13 31-0489 EA Wall Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9229).....	231.25	57.68
28 46 13 31-0490 EA Ceiling Mount, White Housing, Red Lettering, Horn And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9230).....	231.25	57.68
<b>28 46 13 31-0491 Interior Strobe</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0492 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9101) .....	200.57	57.68
28 46 13 31-0493 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9102).....	200.57	57.68
28 46 13 31-0494 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9103) .....	200.51	57.68
28 46 13 31-0495 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9104).....	200.57	57.68
28 46 13 31-0496 EA Weatherproof, Red Housing, White Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9105) .....	218.92	57.68
28 46 13 31-0497 EA Weatherproof, White Housing, Red Lettering, Intensity Selectable (15, 60 Or 75 Candela) Multi-Candela Strobe (Simplex 4906-9106) .....	218.92	57.68
28 46 13 31-0498 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9109).....	220.09	57.68
28 46 13 31-0499 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9110).....	223.29	57.68
28 46 13 31-0500 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9111) .....	223.29	57.68
28 46 13 31-0501 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (135, 177 Or 185 Candela) Multi-Candela Strobe (Simplex 4906-9112).....	223.29	57.68
28 46 13 31-0502 EA Wall Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9201).....	200.57	57.68
28 46 13 31-0503 EA Ceiling Mount, Red Housing, White Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9202).....	200.57	57.68
28 46 13 31-0504 EA Wall Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9203).....	200.57	57.68
28 46 13 31-0505 EA Ceiling Mount, White Housing, Red Lettering, Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Addressable Strobe (Simplex 4906-9204).....	200.57	57.68
<b>28 46 13 31-0506 Interior Speakers</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0507 EA Red With White FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9716).....	166.86	57.68
28 46 13 31-0508 EA White With Red FIRE Lettering, Wall Mount Speaker, Rectangular Housing (Simplex 4902-9717).....	166.86	57.68
28 46 13 31-0509 EA Ceiling Or Wall Mount, Round Housing Speaker (Simplex 4902-9721).....	166.86	57.68
<b>28 46 13 31-0510 Interior Speaker Strobe</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0511 EA Red Housing, White Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9151) .....	259.99	57.68
28 46 13 31-0512 EA White Housing, Red Lettering, Multi-Tapped Speaker And Intensity Selectable (15, 30, 75 Or 110 Candela) Multi-Candela Strobe (Simplex 4906-9153) .....	259.99	57.68
<b>28 46 13 31-0513 Surge Suppressors</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0514 EA Overvoltage Suppressor (Simplex 2081-9044).....	159.68	11.54
28 46 13 31-0515 EA Isolated Loop Circuit Protector (Simplex 2081-9028) .....	103.46	11.54
28 46 13 31-0516 EA 120 Volt AC, 20 Amperes, Multi Stage Hybrid Surge Protector With EMI/RFI Filtering (Ditek 120S20A).....	337.82	11.54
28 46 13 31-0517 EA 24 Volt AC, Data And Loop Circuit Surge Protector (Ditek DTK-2MHL24B) .....	117.95	11.54
28 46 13 31-0518 EA Mounting Base For Two DTK-2MHL24 (Ditek DTK-2MB) .....	178.35	19.22
28 46 13 31-0519 EA 120 Volt AC, 22,500 Amperes, Equipment Panel/Dedicated Circuit Surge Protector (Ditek DTK-120HW).....	120.82	11.54
28 46 13 31-0520 EA <105 Volt AC, 9,000 Amperes, RJ31 Connection, Alarm Dialer Surge Protection (Ditek DTK-MRJ31SCWP).....	91.85	11.54
<b>28 46 13 31-0521 Boxes And Adapters</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0522 EA Semi-Flush Mount Modular Adapter Using Standard 4" Square Electrical Box (Simplex 4905-9921).....	83.09	19.22
28 46 13 31-0523 EA Surface Mount Modular Adapter Using Simplex Box (Simplex 4905-9925).....	79.04	19.22
28 46 13 31-0524 EA Red, Surface Mount Adapter Skirt (Simplex 4905-9937) .....	71.08	19.22
28 46 13 31-0525 EA White, Surface Mount Adapter Skirt (Simplex 4905-9940) .....	59.80	19.22
<b>28 46 13 31-0526 Accessories</b> <small>(28 46 13 31-0394)</small>		
28 46 13 31-0527 EA End-Of-Line Resistor Harness, 10 k Ohms, 1/2 Watt, Two Required, One Each For Audible And Visible Output (Simplex 4081-9008) .....	43.18	19.22
<b>28 46 13 31-0528 Siemens Fire Alarm</b> <small>(28 46 13 31)</small>		

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 13 31-0529</b> Conventional Control Panels <small>(28 46 13 31-0528)</small>		
<b>28 46 13 31-0530</b> SXL Batteries And Power Supplies <small>(28 46 13 31-0529)</small>		
28 46 13 31-0531 EA 6 Amperes Notification Appliance Circuit Expander With Built-In Auxiliary Power Output (Siemens PAD-3) .....	1,342.88	76.91
28 46 13 31-0532 EA Main Board Only For PAD-3 (Siemens PAD-3-MB) .....	1,086.42	76.91
<b>28 46 13 31-0533</b> Digital Fire Communicators <small>(28 46 13 31-0529)</small>		
28 46 13 31-0534 EA Four Channel Digital Slave Fire Communicator (Siemens 5129) .....	1,052.61	76.91
<b>28 46 13 31-0535</b> Addressable Control Panels <small>(28 46 13 31-0528)</small>		
<b>28 46 13 31-0536</b> Fireseeker Equipment <small>(28 46 13 31-0535)</small>		
<b>28 46 13 31-0537</b> FS-250 System Panels <small>(28 46 13 31-0536)</small>		
28 46 13 31-0538 EA FS-250 Electronics Package Including One FS-250-CON And Two FS-NPE, Excludes Enclosure (Siemens FS-250-EKIT) .....	3,422.06	769.11
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer.		
28 46 13 31-0539 EA FS-250 Electronics Package Including One FS-250-CON, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-REL-EKIT) .....	4,205.45	769.11
Note: FS-250-CON is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0540 EA FS-250-SRX Releasing Electronics Package Including One FS-250-CON2-SRX, Two FS-NPE, One FS-RPT And One FS-REL, Excludes Enclosure (Siemens FS-250-SRX-EKIT) .....	2,559.54	615.28
Note: FS-250-CON2-SRX is an electronics package for releasing water or agent. FS-NPE is a system transformer. FS-RPT is a releasing power transformer. FS-REL is a Releasing Module.		
28 46 13 31-0541 EA Electronics Package For Releasing Water Or Agent (Siemens FS-250-CON) .....	3,426.73	769.11
<b>28 46 13 31-0542</b> FS-250 Optional Modules <small>(28 46 13 31-0536)</small>		
28 46 13 31-0543 EA Main Board Module (Siemens FS-MB2) .....	1,352.21	76.91
28 46 13 31-0544 EA Display Board Module (Siemens FS-DB2) .....	1,046.81	38.46
28 46 13 31-0545 EA Device Loop Card (Siemens FS-DLC) .....	860.29	38.46
28 46 13 31-0546 EA Releasing Module (Siemens FS-REL) .....	389.33	38.46
28 46 13 31-0547 EA Remote LCD Annunciator (Siemens FS-RD2) .....	854.47	38.46
28 46 13 31-0548 EA Relay Processor Card (Siemens FS-RU2) .....	743.72	38.46
28 46 13 31-0549 EA Relay Expander Board (Siemens FS-RE8) .....	636.47	38.46
28 46 13 31-0550 EA Serial Annunciator Processor Card (Siemens FS-SAU2) .....	854.47	38.46
28 46 13 31-0551 EA 16 Output Annunciator Extender (Siemens FS-SAE16) .....	669.11	38.46
28 46 13 31-0552 EA Digital Alarm Communication Transmitter (Siemens FS-DACT) .....	609.66	38.46
28 46 13 31-0553 EA Municipal Tie Module (Siemens FS-MT) .....	519.89	38.46
28 46 13 31-0554 EA Configuration Tool Including Laptop To FS-250 Cable And Software (Siemens FS-CT2) .....	488.39	
28 46 13 31-0555 EA Programming Cable Kit (Siemens CBL-UD) .....	128.22	19.22
28 46 13 31-0556 EA Notification Appliance Circuit Power Expander Transformer (Siemens FS-NPE) .....	231.95	38.46
28 46 13 31-0557 EA Releasing Power Transformer (Siemens FS-RPT-A) .....	235.45	38.46
28 46 13 31-0558 EA Surface Mounted Box For Remote LCD Annunciator (Siemens FS-RD-SB) .....	262.04	30.76
28 46 13 31-0559 EA Cabinet Trim Kit (Siemens RD-CAB-TK) .....	416.16	19.22
<b>28 46 13 31-0560</b> Firefinder Systems <small>(28 46 13 31-0535)</small>		
<b>28 46 13 31-0561</b> XLS Basic Fire System Packages Without Backbox <small>(28 46 13 31-0560)</small>		
28 46 13 31-0562 EA 500 Point Firefinder Package Including Two DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-500-ID-SP) .....	11,648.19	769.11
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 13 31-0563 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-ID-SP) .....	10,316.90	769.11
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 13 31-0564 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, One PSC-12 And One ID-SP (Siemens XLS-250-INT-ID-SP) .....	10,316.90	769.11
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. ID-SP is an inner door blank single plate.		
28 46 13 31-0565 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB2-BD And One OD-LP (Siemens XLS-250-CAB2-BD) .....	16,933.70	769.11
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB2-BD is a two row inner and outer door set. OD-LP is an outer door clear plastic lens plate.		
28 46 13 31-0566 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, One PSC-12, One CAB3-BD, One BCL, One ID-SP And One OD-LP (Siemens XLS-250-CAB3-BD) .....	17,486.27	769.11
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module. CAB3-BD is a three row inner and outer door set. ID-SP is an inner door blank single plate. OD-LP is an outer door clear plastic lens plate.		
28 46 13 31-0567 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-EP) .....	10,182.84	769.11
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0568 EA 250 Point Firefinder Package Including One DLC, One PMI-INT, One ZIC-4A, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC4A-INT-EP).....	10,182.84	769.11
Note: DLC is a device loop card. PMI-INT is a person machine interface with multilingual overlays. ZIC-4A is a four circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
28 46 13 31-0569 EA 250 Point Firefinder Package Including One DLC, One PMI, One ZIC-8B, One CC-5, And One PSC-12 (Siemens XLS-250-ZIC8B-EP).....	11,740.28	769.11
Note: DLC is a device loop card. PMI is a person machine interface. ZIC-8B is an eight circuit zone indicating card. CC-5 is a five slot card cage. PSC-12 is a 12 Amp power supply charger module.		
<b>28 46 13 31-0570 Firefinder - XLS Basic System Equipment</b> <small>(28 46 13 31-0560)</small>		
28 46 13 31-0571 EA Person Machine Interface With Central Processor (Siemens PMI).....	5,423.65	769.11
Note: Includes inner door.		
28 46 13 31-0572 EA Person Machine Interface With Central Processor, DE-2 And DPU (Siemens PMI-DPU-ENC).....	8,863.78	769.11
Note: Includes inner door.		
28 46 13 31-0573 EA Person Machine Interface With Multilingual Overlays And Central Processor (Siemens PMI-INT).....	5,423.65	769.11
Note: Includes inner door.		
28 46 13 31-0574 EA Two Slot Card Cage (Siemens CC-2).....	655.12	38.46
28 46 13 31-0575 EA Five Slot Card Cage (Siemens CC-5).....	1,099.27	38.46
28 46 13 31-0576 EA Four Circuit Zone Indicating Card (Siemens ZIC-4A).....	1,565.57	38.46
28 46 13 31-0577 EA Eight Circuit Zone Indicating Card (Siemens ZIC-8B).....	1,634.35	38.46
28 46 13 31-0578 EA Two Channel Adapter Card For ZIC-8B (Siemens ZIC-2C).....	524.56	38.46
28 46 13 31-0579 EA Device Loop Card (Siemens DLC).....	1,853.51	38.46
Note: Interfaces with up to 252 detectors and devices.		
28 46 13 31-0580 EA Controllable Relay Card (Siemens CRC-6).....	1,054.97	38.46
Note: Provides six programmable relays.		
28 46 13 31-0581 EA 12 Amperes Power Supply Charger Module (Siemens PSC-12).....	3,962.35	38.46
28 46 13 31-0582 EA Person Machine Interface With Central Processor And GPML-UK Software Upgrade Kit (Siemens GPML).....	6,978.77	769.11
Note: Software kit provides interface with multiple FireFinder XLS and MXL systems.		
28 46 13 31-0583 EA Network Interface Card (Siemens NIC-C).....	1,232.17	38.46
Note: Provides HNET Or XNET communication between enclosures.		
28 46 13 31-0584 EA 12 Amperes Power Supply Extender (Siemens PSX-12).....	3,297.88	38.46
Note: Extends PSC-12 with an additional 24 volt DC.		
28 46 13 31-0585 EA Power Termination Board (Siemens PTB).....	566.53	38.46
Note: Used with systems requiring more than one PSX-12.		
28 46 13 31-0586 EA Conventional Detector Card (Siemens CDC-4).....	1,187.87	38.46
28 46 13 31-0587 EA Multi-Mode Network Fiber Optic Interface Module (Siemens D2300CPS).....	2,315.15	38.46
28 46 13 31-0588 EA Single-Mode Network Fiber Optic Interface Module (Siemens D2325CPS).....	8,293.12	38.46
<b>28 46 13 31-0589 Remote Lobby Enclosure</b> <small>(28 46 13 31-0560)</small>		
28 46 13 31-0590 EA 14-1/2" x 18-1/2" x 5" Two Module Remote Enclosure (Siemens REMBOX2).....	1,574.82	153.82
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 13 31-0591 EA 24" x 18-1/2" x 5" Four Module Remote Enclosure (Siemens REMBOX4).....	2,017.81	153.82
Note: Flush mounted. Includes clear lens plate on cover.		
28 46 13 31-0592 EA Optional Mounting Plate For REMBOX2 (Siemens REMBOX2-MP).....	255.27	38.46
Note: Required to mount up to four SIM-16 or OCM-16 modules.		
28 46 13 31-0593 EA Optional Mounting Plate For REMBOX4 (Siemens REMBOX4-MP).....	277.42	38.46
Note: Required to mount up to eight SIM-16 or OCM-16 modules.		
<b>28 46 13 31-0594 Battery Enclosures</b> <small>(28 46 13 31-0560)</small>		
28 46 13 31-0595 EA Enclosure For 100 Ampere Hours Batteries (Siemens CAB-BATT).....	996.61	153.82
<b>28 46 13 31-0596 Graphic Annunciator Output Drivers And Inputs</b> <small>(28 46 13 31-0560)</small>		
28 46 13 31-0597 EA Output Control Module (Siemens OCM-16).....	765.87	38.46
28 46 13 31-0598 EA Supervised Input Module (Siemens SIM-16).....	765.87	38.46
<b>28 46 13 31-0599 Remote LCD Displays</b> <small>(28 46 13 31-0560)</small>		
28 46 13 31-0600 EA Remote LED/LCD System Status Display (Siemens SSD).....	1,784.67	115.36
Note: No control or menu capability.		
28 46 13 31-0601 EA Remote LED/LCD System Status Display, Buttons To Acknowledge Events, Silence Audible Circuits And Resetting (Siemens SSD-C).....	2,007.33	115.36
<b>28 46 13 31-0602 Voice Equipment</b> <small>(28 46 13 31-0560)</small>		
28 46 13 31-0603 EA 40 Watts Zone Amplifier Card (Siemens ZAC-40).....	1,746.26	38.46
28 46 13 31-0604 EA 180 Watts Zone Amplifier Module (Siemens ZAM-180).....	3,852.77	38.46
28 46 13 31-0605 EA Live Voice Module (Siemens LVM).....	1,630.85	38.46
Note: Includes a dynamic microphone with a push-to-talk switch and ready-to-page indicator light, as well as a small local speaker and volume control for monitoring audio signals.		
<b>28 46 13 31-0606 MXL Series Equipment</b> <small>(28 46 13 31-0539)</small>		
<b>28 46 13 31-0607 MXL Optional Equipment</b> <small>(28 46 13 31-0606)</small>		
28 46 13 31-0608 EA Two Circuit Analog Loop Driver (Siemens ALD-21).....	1,893.12	76.91
28 46 13 31-0609 EA CXL/MXL Interface Module (Siemens CMI-300).....	4,833.17	38.46
28 46 13 31-0610 EA Four Relay Programmable Relay Module (Siemens CRM-4).....	841.64	38.46

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0611 EA Two Circuit Controllable Signal/Releasing Module (Siemens CSM-4).....	1,013.01	38.46
28 46 13 31-0612 EA Remote Conventional Zone Module (Siemens CZM-1B6).....	390.50	38.46
28 46 13 31-0613 EA Short Circuit Line Isolator Module (Siemens Model LIM-1).....	247.11	38.46
28 46 13 31-0614 EA Four Circuit Conventional Zone Module (Siemens CZM-4).....	986.19	38.46
28 46 13 31-0615 EA 12" x 16" x 3" Enclosure For PAD-3 (Siemens EN-PAD).....	371.82	57.68
28 46 13 31-0616 EA Lexan Window For RCC (Siemens GENBOX-WD).....	249.22	30.76
28 46 13 31-0617 EA Input Driver Module (Siemens MID-16).....	651.62	38.46
28 46 13 31-0618 EA Programmable Output Driver Module (Siemens MOD-16).....	651.62	38.46
28 46 13 31-0619 EA MXL Output/Input Module (Siemens MOI-7).....	1,033.99	38.46
28 46 13 31-0620 EA Two Slot Network Option Module Card Cage (Siemens MOM-2).....	557.20	38.46
28 46 13 31-0621 EA Four Slot Network Option Module Card Cage (Siemens MOM-4).....	868.45	38.46
28 46 13 31-0622 EA 12 Amperes, 220 Volt AC, Power Supply For MXL (Siemens MPS-12/220).....	2,143.73	115.36
28 46 13 31-0623 EA 12 Amperes, 240 Volt AC, Power Supply For MXL (Siemens MPS-12/240).....	2,143.73	115.36
28 46 13 31-0624 EA Network Interface Module (Siemens NIM-1W).....	1,535.26	38.46
28 46 13 31-0625 EA U.L. Listed Parallel Printer (Siemens PAL-1).....	4,038.05	153.82
28 46 13 31-0626 EA Peripheral Interface Module, Model PIM-1 (Siemens 500-691324).....	460.44	38.46
28 46 13 31-0627 EA Surface Mounted Remote Command Center (Siemens RCC-1).....	4,644.93	769.11
28 46 13 31-0628 EA Enclosure And Door With Lens For RCC-1 (Siemens RCC-1DL).....	565.33	76.91
28 46 13 31-0629 EA Flush Mounted Remote Command Center (Siemens RCC-1F).....	4,644.93	769.11
28 46 13 31-0630 EA Enclosure And Door With Lens For RCC-1F (Siemens RCC-1FDL).....	579.32	76.91
28 46 13 31-0631 EA Remote Control Center With System Control Functions And Sequential Event Display (Siemens RCC-2).....	3,636.56	769.11
28 46 13 31-0632 EA MXL/MXLV Remote Annunciator/Keyboard With Enhanced Display (Siemens RCC-3).....	5,302.42	769.11
28 46 13 31-0633 EA RCC-2/RSE-1 Trim Ring (Siemens RCF-1).....	90.92	19.22
28 46 13 31-0634 EA Remote Diagnostics Module For MXL (Siemens RDM-MXL).....	6,215.72	76.91
28 46 13 31-0635 EA Remote Diagnostics Module For PC (Siemens RDM-PC).....	13,206.72	76.91
28 46 13 31-0636 EA Releasing End Of Line Module (Siemens REL-EOL).....	203.98	38.46
28 46 13 31-0637 EA 36 Zone Tabular Graphic Annunciator With Restart System Key (Siemens RSA-MBSC).....	3,973.98	76.91
28 46 13 31-0638 EA 36 Zone Tabular Graphic Annunciator (Siemens RSA-MBTL).....	3,795.62	76.91
28 46 13 31-0639 EA 8-3/8" x 6-1/4" Remote Control Enclosure (Siemens RSE-1).....	2,057.44	153.82
<b>28 46 13 31-0640 Complete MXL And MXLV System Packages Without Enclosure (28 46 13 31-0606)</b>		
28 46 13 31-0641 EA MXL System Electronics Package Including One MMB-3, One Display/Control Keyboard, One MDL-1, One MKB-2, One Mps-6, One MOM-2, One ALD-2I And One PIM-1 (Siemens MXL-SS-EP).....	15,023.04	769.11
Note: MMB-3 is a MXL/MXLV main control board. MDL-1 is a clear lens. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. MOM-2 is a two slot network option module card cage. ALD-2I is a two circuit analog loop driver. PIM-1 is a peripheral interface module.		
28 46 13 31-0642 EA MXL Voice System Electronics Package Including One MMB-3, One MKB-2, One MPS-6, One ACM-1, One TBM-2, One MMM-1, One OMM-2, One ZAC-30, One OCC-1, One MHD-5, One VSM-1 And Four VSB-1 (Siemens MXLV-SS-EP).....	19,392.27	769.11
Note: MMB-3 is a MXL/MXLV main control board. MKB-2 is a MXL/MXLV display/keyboard module with hinged frame. MPS-6 is a 6 Amp power supply for MXL. ACM-1 is an audio control module. TBM-2 is a voice terminal module. MMM-1 is a master microphone module. OMM-2 is a two half width slot card cage. ZAC-30 is a MXLV zone amplifier card. OCC-1 is a MXLV output control card. MHD-5 is a deadfront panel for MSE-2 backbox. VSM-1 is an eight switch module. VSB-1 is a module blank with overlay.		
28 46 13 31-0643 EA MXLV Demonstration Panel (Siemens MXLV DEMO).....	39,797.55	769.11
<b>28 46 13 31-0644 MXL Basic System (28 46 13 31-0606)</b>		
28 46 13 31-0645 EA MXL/MXLV Main Control Board (Siemens MMB-3).....	9,525.36	769.11
28 46 13 31-0646 EA MXL System Electronics Package Including One MMB-3, One DE-2 And One DPU (Siemens MMB-DPU-ENCL).....	12,135.47	769.11
Note: MMB-3 is a MXL/MXLV main control board. DE-2 is an enclosure for document storage. DPU is a handheld device programming and testing unit.		
28 46 13 31-0647 EA MXL/MXLV Display/Keyboard Module With Hinged Frame (Siemens MKB-2).....	3,356.14	76.91
28 46 13 31-0648 EA MXL/MXLV Keyboard With Enhanced Display With Hinged Frame (Siemens MKB-5).....	4,197.81	76.91
28 46 13 31-0649 EA 6 Amperes Power Supply For MXL (Siemens MPS-6).....	1,489.74	115.36
28 46 13 31-0650 EA 220/240 Volt AC Adapter Cable (Siemens CIA-12).....	114.23	19.22
<b>28 46 13 31-0651 MXL/MXLR System Expansion Accessories (28 46 13 31-0606)</b>		
28 46 13 31-0652 EA MXL Remote Power Supply Module (Siemens PSR-1).....	1,819.65	115.36
28 46 13 31-0653 EA Style 4 Communication Module (Siemens NET-4).....	378.84	38.46
28 46 13 31-0654 EA Style 7 Communication Module (Siemens NET-7).....	678.44	38.46
28 46 13 31-0655 EA MXL/MXL-IQ/MXLV Intelligent Control Point, B6 Chip (Siemens ICP-B6).....	412.65	38.46
<b>28 46 13 31-0656 Peripheral Devices (28 46 13 31-0535)</b>		
<b>28 46 13 31-0657 Thermal Detectors (28 46 13 31-0656)</b>		
28 46 13 31-0658 EA Rate Of Rise And 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135R).....	172.48	57.68
28 46 13 31-0659 EA Rate Of Rise And 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200R).....	172.48	57.68
28 46 13 31-0660 EA 135 Degree F Fixed Temperature Thermal Detector (Siemens DT-135F).....	172.48	57.68
28 46 13 31-0661 EA 200 Degree F Fixed Temperature Thermal Detector (Siemens DT-200F).....	172.48	57.68
28 46 13 31-0662 EA Weatherproof 135 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-135WP).....	259.91	57.68
28 46 13 31-0663 EA Weatherproof 200 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-200WP).....	259.91	57.68
28 46 13 31-0664 EA Explosion Proof 190 Degree F Rate Compensation/Fixed Temperature Thermal Detector (Siemens DT-190EP).....	613.14	57.68
<b>28 46 13 31-0665 Beam Smoke Detector (28 46 13 31-0656)</b>		
28 46 13 31-0666 EA Linear Beam Smoke Detector (Siemens PBA-1191).....	2,842.73	57.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0667 EA Base For Linear Beam Smoke Detector (Siemens PBB-1191).....	327.57	19.22
28 46 13 31-0668 EA 20cm x 20cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1192).....	331.06	19.22
28 46 13 31-0669 EA 10cm x 10cm Flat Reflector For Linear Beam Smoke Detector (Siemens PBR-1193).....	172.52	19.22
<b>28 46 13 31-0670 Bases For Detectors (28 46 13 31-0656)</b>		
28 46 13 31-0671 EA Detector Base (Siemens DB-11).....	55.95	19.22
28 46 13 31-0672 EA Universal Base (Siemens DB-3S).....	52.45	19.22
<b>28 46 13 31-0673 Manual Stations (28 46 13 31-0656)</b>		
28 46 13 31-0674 EA Weatherproof Metal Manual Pull Station With Key (Siemens MSM-K-WP).....	370.90	46.15
<b>28 46 13 31-0675 Addressable Devices (28 46 13 31-0535)</b>		
<b>28 46 13 31-0676 Intelligent Detectors And Devices For Firefinder XLS And FS-250 (28 46 13 31-0675)</b>		
28 46 13 31-0677 EA Addressable Fireprint Fire Detector (Siemens HFP-11).....	315.87	57.68
28 46 13 31-0678 EA Addressable Thermal Fire Detector (Siemens HFPT-11).....	275.07	57.68
28 46 13 31-0679 EA Relay Base For H-Series Intelligent Detectors (Siemens DB-HR).....	227.27	57.68
28 46 13 31-0680 EA Ceiling Mounted Remote Alarm Indicator (Siemens RL-HC).....	158.49	57.68
28 46 13 31-0681 EA Wall Mounted Remote Alarm Indicator (Siemens RL-HW).....	158.49	57.68
28 46 13 31-0682 EA Addressable Single Action Manual Pull Station (Siemens HMS-S).....	322.88	38.46
28 46 13 31-0683 EA Addressable Double Action Manual Pull Station (Siemens HMS-D).....	308.89	38.46
28 46 13 31-0684 EA Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-S).....	247.11	38.46
28 46 13 31-0685 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens HTRI-D).....	299.57	38.46
28 46 13 31-0686 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens HTRI-R).....	299.57	38.46
28 46 13 31-0687 EA Mini Single Input Intelligent Initiating Devices Interface Module (Siemens HTRI-M).....	229.62	38.46
28 46 13 31-0688 EA Line Isolator Module (Siemens HLIM).....	236.62	38.46
28 46 13 31-0689 EA Remote Convention Zone Module (Siemens HZM).....	343.87	38.46
28 46 13 31-0690 EA Intelligent Control Point Module (Siemens HCP).....	432.46	38.46
28 46 13 31-0691 EA Handheld Programming And Testing Unit (Siemens DPU).....	1,857.03	
28 46 13 31-0692 EA DPU Carrying Case (Siemens DPU-C1).....	288.86	
28 46 13 31-0693 EA Label Printer And Carrying Case (Siemens DPU-PRT).....	3,182.47	38.46
<b>28 46 13 31-0694 Air Duct Housings And Detectors (28 46 13 31-0675)</b>		
28 46 13 31-0695 EA Air-Duct Housing (Siemens AD2-P).....	349.47	30.76
28 46 13 31-0696 EA Air-Duct Housing With Relay (Siemens AD2-XHR).....	393.77	30.76
28 46 13 31-0697 EA Weatherproof Enclosure For Duct Housing (Siemens WP-2000).....	320.55	38.46
28 46 13 31-0698 EA 6" To 1' Duct Sampling Tube (Siemens ST-10).....	46.39	11.54
28 46 13 31-0699 EA >1' To 3' Duct Sampling Tube (Siemens ST-25).....	57.57	15.39
28 46 13 31-0700 EA >3' To 5' Duct Sampling Tube (Siemens ST-50).....	72.27	19.22
28 46 13 31-0701 EA >5' To 10' Duct Sampling Tube (Siemens ST-100).....	84.62	23.07
<b>28 46 13 31-0702 Intelligent Initiating Devices For MXL, MXL-LQ And MXLV (28 46 13 31-0675)</b>		
28 46 13 31-0703 EA Addressable Fireprint Fire Detector (Siemens FP-11).....	328.69	57.68
28 46 13 31-0704 EA Addressable Thermal Fire Detector (Siemens FPT-11).....	285.56	57.68
28 46 13 31-0705 EA Intelligent Ionization Smoke Detector (Siemens ILI-1).....	361.33	57.68
28 46 13 31-0706 EA Addressable Single Action Manual Pull Station (Siemens MSI-10B).....	314.72	38.46
28 46 13 31-0707 EA Addressable Double Action Manual Pull Station (Siemens MSI-20B).....	346.20	38.46
28 46 13 31-0708 EA Single Input Intelligent Initiating Devices Interface Module (Siemens TRI-S).....	318.22	38.46
28 46 13 31-0709 EA Dual Input Intelligent Initiating Devices Interface Module (Siemens TRI-D).....	350.86	38.46
28 46 13 31-0710 EA Single Input Intelligent Initiating Devices Interface Module With Relay (Siemens TRI-R).....	350.86	38.46
<b>28 46 13 31-0711 Detector Universal Bases (28 46 13 31-0675)</b>		
28 46 13 31-0712 EA Detector Base With Relay (Siemens DB-X11RS).....	149.21	19.22
28 46 13 31-0713 EA PE-11 To DB-3 Base Adapter (Siemens DB-ADPT).....	79.26	19.22
28 46 13 31-0714 EA Locking Kit (Siemens LK-11).....	16.32	
28 46 13 31-0715 EA Detector Base With Relay (Siemens DB-X3RS).....	149.21	19.22
28 46 13 31-0716 EA Audible Base For Addressable Fireprint Fire Detector (Siemens ADBX-11).....	172.52	19.22
28 46 13 31-0717 EA Retrofit Adapter Box For Audible Bases Ionization Detector Air Duct (Siemens ADB-BOX).....	75.76	19.22
28 46 13 31-0718 EA Flush Trim Ring For Bases (Siemens RA-ADB).....	37.06	11.54
28 46 13 31-0719 EA Seal For DB-11 (Siemens DB11-SEAL).....	19.13	
28 46 13 31-0720 EA Gasket For DB-11 (Siemens DB-SEAL).....	20.67	
28 46 13 31-0721 EA Detector Guard Housing (Siemens DGH-11).....	215.65	19.22
28 46 13 31-0722 EA Small Detector Base (Siemens DB-11E).....	60.61	19.22
28 46 13 31-0723 EA Audible Base For Series 3 (Siemens ADBI-60A).....	193.50	19.22
28 46 13 31-0724 EA Base Plug (Siemens DB-11-DP).....	16.28	
<b>28 46 13 31-0725 Air Duct Smoke Detectors (28 46 13 31-0675)</b>		
28 46 13 31-0726 EA Intelligent Remote Duct Relay Module (Siemens DA-X3SR).....	171.34	38.46
28 46 13 31-0727 EA Weatherproof Enclosure For Duct Housing (Siemens EAD-3).....	831.15	38.46
<b>28 46 13 31-0728 Notification Devices (28 46 13 31-0535)</b>		

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 13 31-0729 Synchronization Control Devices</b> (28 46 13 31-0728)		
28 46 13 31-0730 EA Dual Synchronization Control Module (Siemens DSC).....	247.11	38.46
<b>28 46 13 31-0731 Stand Alone Strobes</b> (28 46 13 31-0728)		
28 46 13 31-0732 EA Wall Mounted Multi-Candela Strobe (Siemens ZR-MC-R).....	214.45	57.68
28 46 13 31-0733 EA Wall Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-R).....	231.94	57.68
28 46 13 31-0734 EA Ceiling Mounted Multi-Candela Strobe (Siemens ZR-MC-CR).....	214.45	57.68
28 46 13 31-0735 EA Ceiling Mounted High, Multi-Candela Strobe (Siemens ZR-HMC-CR).....	231.94	57.68
28 46 13 31-0736 EA Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CW).....	231.94	57.68
28 46 13 31-0737 EA Ceiling Mounted Multi-Candela Strobe (Siemens ST-MC-CW).....	214.45	57.68
28 46 13 31-0738 EA Retrofit Plate Multi-Candela Strobe (Siemens ST-MC-RETRO-R).....	244.76	57.68
28 46 13 31-0739 EA Weatherproof Ceiling Mounted Strobe (Siemens ST-75-CR-WP).....	235.43	57.68
28 46 13 31-0740 EA Weatherproof Wall Mounted Strobe (Siemens ST-75-R-WP).....	235.43	57.68
28 46 13 31-0741 EA Weatherproof Ceiling Mounted High Multi-Candela Strobe (Siemens ST-HMC-CR-WP).....	250.59	57.68
28 46 13 31-0742 EA Weatherproof Wall Mounted High Multi-Candela Strobe (Siemens ST-HMC-R-WP).....	250.59	57.68
<b>28 46 13 31-0743 Horns And Strobes</b> (28 46 13 31-0728)		
28 46 13 31-0744 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-R).....	283.23	57.68
28 46 13 31-0745 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-R).....	298.38	57.68
28 46 13 31-0746 EA Wall Mounted Horn (Siemens SE-R).....	172.48	57.68
28 46 13 31-0747 EA Ceiling Mounted Multi-Candela Horn/Strobe (Siemens SE-MC-CR).....	283.23	57.68
28 46 13 31-0748 EA Ceiling Mounted High Multi-Candela Horn/Strobe (Siemens SE-HMC-CR).....	298.38	57.68
28 46 13 31-0749 EA Ceiling Mounted Horn (Siemens SEC-R).....	179.48	57.68
28 46 13 31-0750 EA Wall Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-R).....	283.23	57.68
28 46 13 31-0751 EA Wall Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-R).....	298.38	57.68
28 46 13 31-0752 EA Wall Mounted Low Profile Horn (Siemens SEF-R).....	172.48	57.68
28 46 13 31-0753 EA Ceiling Mounted Low Profile Multi-Candela Horn/Strobe (Siemens SEF-MC-CW).....	283.23	57.68
28 46 13 31-0754 EA Ceiling Mounted Low Profile High Multi-Candela Horn/Strobe (Siemens SEF-HMC-CW).....	298.38	57.68
28 46 13 31-0755 EA Ceiling Mounted Low Profile Horn (Siemens SEF-CR).....	179.48	57.68
28 46 13 31-0756 EA Mini Horn (Siemens MH-R).....	146.84	57.68
28 46 13 31-0757 EA Indoor/Outdoor Multi Tone Horn (Siemens MTH-R).....	181.81	57.68
28 46 13 31-0758 EA Indoor/Outdoor Multi Tone, Multi-Candela Horn/Strobe (Siemens MTH-MC-R).....	268.07	57.68
28 46 13 31-0759 EA Industrial Tri-Tone Horn (Siemens ASR).....	727.38	57.68
28 46 13 31-0760 EA Wall Mounted Horn (Siemens HS-R).....	181.81	57.68
28 46 13 31-0761 EA Wall Mounted Multi-Candela Horn/Strobe (Siemens HS-MC-R).....	269.24	57.68
28 46 13 31-0762 EA Wall Mounted High Multi-Candela Horn/Strobe (Siemens HS-HMC-R).....	287.89	57.68
28 46 13 31-0763 EA 6" Motor Bell (Siemens MBDC-6).....	205.12	57.68
28 46 13 31-0764 EA 10" Motor Bell (Siemens MBDC-10).....	222.61	57.68
<b>28 46 13 31-0765 Mounting Accessories</b> (28 46 13 31-0728)		
28 46 13 31-0766 EA Concealed Conduit Adapter Plate (Siemens APS-R).....	52.45	19.22
28 46 13 31-0767 EA 4" x 1-1/2" Surface Mounted Back Box (Siemens BBS-R).....	52.45	19.22
28 46 13 31-0768 EA 4" x 2-1/8" Surface Mounted Back Box (Siemens DBBS-R).....	53.61	19.22
28 46 13 31-0769 EA Red Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX).....	81.59	19.22
28 46 13 31-0770 EA White Weatherproof Surface Mount Backbox (Siemens MT-SUR-BOX-W).....	66.44	19.22
28 46 13 31-0771 EA Surface Mounted Speaker Backbox (Siemens SBBS-R).....	69.94	19.22
28 46 13 31-0772 EA Surface Mounted Speaker Backbox (Siemens SBL2S-R).....	74.60	19.22
28 46 13 31-0773 EA Square Semi-Flush Extension Ring (Siemens SERS-R).....	60.61	19.22
28 46 13 31-0774 EA Semi-Flush Plate (Siemens SFPS-R).....	51.28	19.22
28 46 13 31-0775 EA Square Surface Backbox (Siemens SHBBS-R).....	60.61	19.22
28 46 13 31-0776 EA Horn Adapter Plate (Siemens SHMPS-R).....	58.28	19.22
28 46 13 31-0777 EA Ceiling Speaker Extension Ring (Siemens SPEXT-R).....	52.45	19.22
28 46 13 31-0778 EA Wall Mounted Surface Mounted Speaker Backbox (Siemens SPSB-R).....	66.44	19.22
28 46 13 31-0779 EA Wall Mounted Surface Mounted Speaker/Strobe Backbox (Siemens SPSSB-R).....	69.94	19.22
28 46 13 31-0780 EA Weatherproof Speaker Backbox (Siemens WBBS-R).....	67.60	19.22
28 46 13 31-0781 EA Weatherproof Speaker Backbox With 3/4" Knockout (Siemens WBBS-R-3/4T-3/4B).....	74.60	19.22
28 46 13 31-0782 EA Weatherproof Flush Plate (Siemens WFPAS-R).....	74.60	19.22
28 46 13 31-0783 EA Weatherproof Horn Flush Plate (Siemens WFPS-R).....	74.60	19.22
28 46 13 31-0784 EA Weatherproof Horn Backbox (Siemens WPBBS-R).....	69.94	19.22
28 46 13 31-0785 EA Weatherproof Strobe Backbox (Siemens WPSBBS-R).....	69.94	19.22
28 46 13 31-0786 EA Surface Mounted Weatherproof Backbox Kit (Siemens WPS-KIT).....	52.45	19.22
28 46 13 31-0787 EA Z Series Backbox (Siemens ZBB-R).....	58.28	19.22
<b>28 46 13 31-0788 Door Holders</b> (28 46 13 31-0728)		
28 46 13 31-0789 EA 120 Volt AC Concealed Wiring Fire Door Holder (Siemens SDH-2A).....	416.12	57.68
28 46 13 31-0790 EA 24 Volt DC Concealed Wiring Fire Door Holder (Siemens SDH-2D).....	416.12	57.68
<b>28 46 13 31-0791 Voice Equipment</b> (28 46 13 31-0535)		
<b>28 46 13 31-0792 Voicecom</b> (28 46 13 31-0791)		
28 46 13 31-0793 EA Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone And Enclosure With Deadfront And Space For Five Modules (Siemens VOICECOM).....	6,335.27	769.11





			MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0794	EA		Emergency Voice Alarm Communication System, 3.5 Amp Power Supply And Battery Charger, Two 50W Amplifier, Battery Cables, Main Control Board With One Speaker Circuit, Paging Microphone, Enclosure With Deadfront And Space For 11 Modules, Auxiliary Power Supply, Four PS-AUX Strobe Zone Cables And One AM-25-50 Speaker Zone Cables (Siemens VOICECOM-L).....	9,890.81	769.11
<b>28 46 13 31-0795 Johnson Controls Fire Alarm <small>(28 46 13 31)</small></b>					
28 46 13 31-0796	EA		Intelligent Addressable ION Detector; With FlashScan. (Johnson Controls, Inc. #1951J).....	251.24	57.68
28 46 13 31-0797	EA		Intelligent Addressable Photo Detector; With FlashScan. (Johnson Controls, Inc. #2951J).....	248.72	57.68
28 46 13 31-0798	EA		Intelligent Addressable Photo/Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TJ).....	306.59	57.68
28 46 13 31-0799	EA		Acclimate™ Intelligent Photo Thermal Detector; With FlashScan. (Johnson Controls, Inc. #2951TMJ).....	305.79	57.68
28 46 13 31-0800	EA		411UD, 4 Channel Dual. (Johnson Controls, Inc. #411UD).....	818.25	76.91
28 46 13 31-0801	EA		Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951HJ).....	238.34	57.68
28 46 13 31-0802	EA		Intelligent Addressable High Temperature Heat Detector; With FlashScan. (Johnson Controls, Inc. #5951J).....	214.39	57.68
28 46 13 31-0803	EA		Intelligent Addressable Rate-of-Rise Thermal Detector; With FlashScan. (Johnson Controls, Inc. #5951RJ).....	209.31	57.68
28 46 13 31-0804	EA		Intelligent Addressable Laser Detector; Low Profile, Use With IFC Series Panels Only. (Johnson Controls, Inc. #7351J).....	599.65	57.68
28 46 13 31-0805	EA		100 Watts Audio Amplifier At 70.7 VRMS With Built-in Tone Generator, 120 Volt AC (Johnson Controls, Inc. #AA-100).....	2,871.05	115.36
28 46 13 31-0806	EA		AUDIO Amplifier, 100 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-100E).....	2,782.75	115.36
28 46 13 31-0807	EA		120 Watts Audio Amplifier At 25 VRMS With Built-in Tone Generator, 120 Voltage AC (Johnson Controls, Inc. #AA-120).....	2,830.39	115.36
28 46 13 31-0808	EA		AUDIO Amplifier, 120 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-120E).....	2,711.46	115.36
28 46 13 31-0809	EA		30 Watts Audio Amplifier At 25 VRMS, 120 Voltage AC (Johnson Controls, Inc. #AA-30).....	1,337.46	115.36
28 46 13 31-0810	EA		AUDIO Amplifier, 30 Watts, 230 Voltage AC (Johnson Controls, Inc. #AA-30E).....	1,337.46	115.36
28 46 13 31-0811	EA		Annunciator Control Module With; 16 Red Alarm LED's, 16 Yellow Trouble LED's, And 16 Control Switches, On-line, System Trouble Led, And Local Sounder, Local Acknowledge And Lamp Test Switch, Supports 1, 2 Or 3 AEM-16AT Expander Modules. (Johnson Controls, Inc. #ACM-16AT).....	1,317.28	38.46
28 46 13 31-0812	EA		IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED, Trouble LED And Switch Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) By Point To Be Red, Green Or Yellow And The Trouble LED Is Always Yellow. Expandable With One, Two Or Three AEM-24AT's. (Johnson Controls, Inc. #ACM-24AT).....	1,369.71	38.46
28 46 13 31-0813	EA		Annunciator Control Module; Includes 32 Red Alarm LED's, System Trouble LED And On-line LED, Local Acknowledge, Lamp Test Switch, And Local Piezo Sounder, Supports One AEM-32A Expander Module. (Johnson Controls, Inc. #ACM-32A).....	1,008.97	38.46
28 46 13 31-0814	EA		IFC Series ACS Annunciator; Up To 96 Points Of Annunciation With Alarm Or Active LED Per Circuit. Active/Alarm LEDs Can Be Programmed (By Powered Up Switch Selection) In Groups Of 24 To Be Red, Green Or Yellow. Expandable To 96 Points With One AEM-48A. (Johnson Controls, Inc. #ACM-48A).....	1,008.97	38.46
28 46 13 31-0815	EA		Annunciator, Relay, Form C. (Johnson Controls, Inc. #ACM-8R).....	714.93	38.46
28 46 13 31-0816	EA		Charger Power Supply - 6 Or 10 Amperes; Mounts In CAB-PS1, CAB-3/4, EQ Cabx, BB-25, Or CHS-PS1; Comes With The PK-PPS Programming Utility. Windows® PC And USB Cable Required For Programming. (Johnson Controls, Inc. #ACPS-610).....	2,292.38	76.91
28 46 13 31-0817	EA		Annunciator Expander Module With: 16 Red Alarm LED's, 16 Yellow Trouble LED's, 16 Control Switches, Cable For Connection To The ACM-16AT Master. (Johnson Controls, Inc. #AEM-16AT).....	1,008.97	38.46
28 46 13 31-0818	EA		Annunciator Expander Module; 24 Alarm And Trouble LEDs, Expands The ACM-24AT To 48, 72 Or 96 Points. (Johnson Controls, Inc. #AEM-24AT).....	1,048.38	38.46
28 46 13 31-0819	EA		Annunciator Expander Module With: 32 Red Alarm LED's, Cable For Connection To The ACM-32A Master. (Johnson Controls, Inc. #AEM-32A).....	905.59	38.46
28 46 13 31-0820	EA		Annunciator Expander Module; 48 Alarm LEDs, Expands The ACM-48A To 96 Points. (Johnson Controls, Inc. #AEM-48A).....	905.59	38.46
28 46 13 31-0821	EA		Back Box, Flush Or Surface Mount; Requires A Door And Telephone Chassis. (Johnson Controls, Inc. #FAFWS-BX).....	160.11	34.61
28 46 13 31-0822	EA		Receiver, Multimode Fiber. (Johnson Controls, Inc. #AFL-RM).....	1,390.64	76.91
28 46 13 31-0823	EA		Receiver, Singlemode Fiber. (Johnson Controls, Inc. #AFL-RS).....	3,005.23	76.91
28 46 13 31-0824	EA		Transmit, Multimode Fiber. (Johnson Controls, Inc. #AFL-TM).....	1,390.64	76.91
28 46 13 31-0825	EA		Transmit, Singlemode Fiber. (Johnson Controls, Inc. #AFL-TS).....	3,005.23	76.91
28 46 13 31-0826	EA		Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B110LP).....	59.84	19.22
28 46 13 31-0827	EA		Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224BI).....	151.82	19.22
28 46 13 31-0828	EA		Base, Smoke Detector, Intelligent. (Johnson Controls, Inc. #B224RB).....	143.50	19.22
28 46 13 31-0829	EA		Base, Smoke Detector, 2 Wire. (Johnson Controls, Inc. #B401).....	63.40	19.22
28 46 13 31-0830	EA		Intelligent Detector Base, Without Flange. (Johnson Controls, Inc. #B501J).....	57.49	19.22
28 46 13 31-0831	EA		Battery Cabinet, Lockable. (Johnson Controls, Inc. #BB-100).....	1,020.02	76.91
28 46 13 31-0832	EA		Projected Beam Smoke Detector, Single-ended Reflected Type, Includes Trouble Relay, Transmitter/Receiver In One Unit. (Johnson Controls, Inc. #Beam1224).....	2,369.29	115.36
28 46 13 31-0833	EA		Same As Beam1224 With Built-in Sensitivity Test Filter. (Johnson Controls, Inc. #Beam1224S).....	2,502.96	115.36
28 46 13 31-0834	EA		Mounting Kit, Long RG, Beam. (Johnson Controls, Inc. #BeamLRK).....	279.05	19.22
28 46 13 31-0835	EA		Mounting Kit, Beam Detect. (Johnson Controls, Inc. #BeamMMK).....	189.95	19.22
28 46 13 31-0836	EA		Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025).....	2,371.26	115.36
28 46 13 31-0837	EA		Digital Audio Amplifier, 50 Watts, 25 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5025F).....	2,191.07	115.36
28 46 13 31-0838	EA		Digital Audio Amplifier, 50 Watts, 25 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5025SF).....	2,191.07	115.36
28 46 13 31-0839	EA		Digital Audio Amplifier, 50 Watts, 70 VRMS (Johnson Controls, Inc. #DAA-5070).....	2,565.89	115.36
28 46 13 31-0840	EA		Amplifier, Digital Audio. (Johnson Controls, Inc. #DAA-5070E).....	2,369.29	115.36
28 46 13 31-0841	EA		Digital Audio Amplifier, 50 Watts, 70 VRMS, Multi-Fiber (Johnson Controls, Inc. #DAA-5070F).....	2,369.29	115.36
28 46 13 31-0842	EA		Digital Audio Amplifier, 50 Watts, 70 VRMS, Single-Fiber (Johnson Controls, Inc. #DAA-5070SF).....	2,369.29	115.36
28 46 13 31-0843	EA		Digital Audio Amplifier, 75 Watts, 25 VRMS (Johnson Controls, Inc. #DAA-7525).....	2,827.55	115.36
28 46 13 31-0844	EA		Digital Audio Amplifier, 75 Watts, 25 VRMS, Multi Fiber (Johnson Controls, Inc. #DAA-7525F).....	2,827.55	115.36
28 46 13 31-0845	EA		Digital Audio Amplifier, 75 Watts, 25 VRMS, Single Fiber (Johnson Controls, Inc. #DAA-7525SF).....	2,827.55	115.36
28 46 13 31-0846	EA		Innovairflex Intelligent. (Johnson Controls, Inc. #DNR).....	301.58	38.46
28 46 13 31-0847	EA		Innovairflex Duct Detect. (Johnson Controls, Inc. #DNRW).....	457.41	38.46
28 46 13 31-0848	EA		Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1).....	44.96	15.39
28 46 13 31-0849	EA		Innovairflex Sample Tube. (Johnson Controls, Inc. #DST1.5).....	48.63	15.39
28 46 13 31-0850	EA		Innovairflex Sample Tube. (Johnson Controls, Inc. #DST10).....	114.70	23.07
28 46 13 31-0851	EA		Innovairflex Sample Tube. (Johnson Controls, Inc. #DST3).....	56.84	15.39

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0852 EA Innovairflex Sample Tube. (Johnson Controls, Inc. #DST5).....	70.26	19.22
28 46 13 31-0853 EA Digital Voice Command, Analog Output. (Johnson Controls, Inc. #DVC-AO).....	460.05	38.46
28 46 13 31-0854 EA Digital Voice Command, Keypad. (Johnson Controls, Inc. #DVC-KD).....	768.67	76.91
28 46 13 31-0855 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; B Size, Black. (Johnson Controls, Inc. #EQBB-B4).....	653.39	115.36
28 46 13 31-0856 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or Amperes-24; C Size, Black. (Johnson Controls, Inc. #EQBB-C4).....	893.38	115.36
28 46 13 31-0857 EA Equipment Cabinet Used To House DAA Digital Amplifiers, XP10/6 Series Transponders, AA-Amplifiers, ACPS-610 Or AMPS-24; D Size, Black. (Johnson Controls, Inc. #EQBB-D4).....	973.57	115.36
28 46 13 31-0858 EA Equipment Cabinet Door; B Size Black. (Johnson Controls, Inc. #EQDR-B4).....	501.77	15.39
28 46 13 31-0859 EA Equipment Cabinet Door; C Size Black. (Johnson Controls, Inc. #EQDR-C4).....	754.28	15.39
28 46 13 31-0860 EA Equipment Cabinet Door; D Size Black. (Johnson Controls, Inc. #EQDR-D4).....	828.55	15.39
28 46 13 31-0861 EA 6.0 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S6).....	1,040.29	153.82
Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 13 31-0862 EA 8 Amperes, 120 Volt AC Remote Charger Power Supply (Johnson Controls, Inc. #FCPS-24S8).....	1,351.38	153.82
Note: Includes Main Printed Circuit Board, Transformers And Installation Instructions		
28 46 13 31-0863 EA 80 Character Display Annunciator. "Security Keypad" Mechanical Design. For Use With The IFC-320, JCPU2-640, JCPU-640 And IFC-400/300 (Rev 3.62+) Only. (Johnson Controls, Inc. #FDU-80G).....	1,273.29	115.36
28 46 13 31-0864 EA Fireman's Telephone Hand Set. (Johnson Controls, Inc. #FHS).....	234.50	19.22
28 46 13 31-0865 EA Fire Phone Storage Cabinet, Recessed, Holds 6 Phones. (Johnson Controls, Inc. #FHSC-R).....	659.67	38.46
28 46 13 31-0866 EA Door Holder, Magnetic, Floor. (Johnson Controls, Inc. #FM980).....	359.35	57.68
28 46 13 31-0867 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM996).....	296.15	57.68
28 46 13 31-0868 EA Door Holder, Magnetic, Wall. (Johnson Controls, Inc. #FM998).....	310.53	57.68
28 46 13 31-0869 EA Addressable Beam Detector. (Johnson Controls, Inc. #FSB-200).....	2,402.30	76.91
28 46 13 31-0870 EA Addressable Beam Detector With Remote Test Feature. (Johnson Controls, Inc. #FSB-200S).....	2,929.73	76.91
28 46 13 31-0871 EA Intelligent Addressable HARSH (Hostile Area Smoke Head) Detector; Photo, Requires B501B-FTXJ Base. (Johnson Controls, Inc. #FTX-P2J).....	889.44	38.46
28 46 13 31-0872 EA IFC-320 Intelligent Fire Alarm Panel; Single Printed Circuit Board With One SLC Loop (318 Devices), Back-lit, 80 Character Display, System And Programming Keypad And 6.0 Amperes Power Supply, 120 Volt AC, (Johnson Controls, Inc. #IFC-320).....	6,153.37	615.28
Note: Includes Door, Dress Panel And Back Box, Black		
28 46 13 31-0873 EA Upgrade Kit, ORG BLD, 640. (Johnson Controls, Inc. #IFC-640UG).....	2,955.34	76.91
28 46 13 31-0874 EA Workstation Only Workstation GUI Software And Hardware Package. (Johnson Controls, Inc. #IFI).....	39,334.39	922.93
28 46 13 31-0875 EA Workstation With NFN Fiber PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-F) Fiber Version. (Johnson Controls, Inc. #IFI-F).....	42,898.65	922.93
28 46 13 31-0876 EA Workstation With Echelon Wire PC Card Workstation GUI Software And Hardware Package For Building Systems Integration, WSSUP Workstation Supervisor. Includes Echelon® Gateway (ECH-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-IP).....	48,245.06	922.93
28 46 13 31-0877 EA Workstation With NFN Wire PC Card Workstation GUI Software And Hardware Package. Includes NFN Gateway (JNFN-GW-PC-W) Wire Version. (Johnson Controls, Inc. #IFI-W).....	42,898.65	922.93
28 46 13 31-0878 EA Annunciator Flush Box. Mounts One Annunciator Module. (Johnson Controls, Inc. #JABF-1B).....	292.09	23.07
28 46 13 31-0879 EA Annunciator Flush Box. One Module. Attractive Glass Door And Key Lock. (Johnson Controls, Inc. #JABF-1DB).....	327.74	23.07
28 46 13 31-0880 EA Annunciator Flush Box. Mounts Two Annunciator Modules. (Johnson Controls, Inc. #JABF-2B).....	356.25	23.07
28 46 13 31-0881 EA Annunciator Flush Box. Mounts Four Annunciator Modules. (Johnson Controls, Inc. #JABF-4B).....	659.21	23.07
28 46 13 31-0882 EA Annunciator Surface Box. Deep With Trim Cover. (Johnson Controls, Inc. #JABS-1TB).....	216.09	15.39
28 46 13 31-0883 EA Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Black. (Johnson Controls, Inc. #JABS-2D).....	340.70	34.61
28 46 13 31-0884 EA Surface (or Semi-flush) Mount Backbox. Used With The INA, ACS Annunciators, SCS Series, JNCA And JNCA-2 Red. (Johnson Controls, Inc. #JABS-2DR).....	361.14	34.61
28 46 13 31-0885 EA Surface (or Semi-flush) Mount INA, ACS, Or SCS Backbox, Black. (Johnson Controls, Inc. #JABS-4D).....	653.75	34.61
28 46 13 31-0886 EA Audio Command Door For CAB-B4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-B4).....	645.61	15.39
28 46 13 31-0887 EA Audio Command Door For CAB-C4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-C4).....	868.38	15.39
28 46 13 31-0888 EA Audio Command Door For CAB-D4, Black; Required When Using CA-2. (Johnson Controls, Inc. #JADDR-D4).....	1,073.32	15.39
28 46 13 31-0889 EA Addressable Pull Station; With FlashScan. (Johnson Controls, Inc. #JBG-12LX).....	313.34	38.46
28 46 13 31-0890 EA Battery Dress Panel For CAB-4 Series; For Use With The JCPU2-3030, JCPU2-640, JNCA-2, And DVC Systems. (Johnson Controls, Inc. #JBP2-4).....	145.38	15.39
28 46 13 31-0891 EA JCPU2-3030 CPU With 640-character Display; Required For Single Panel (One CPU2-3030) Systems. Includes: CPU, 640-Character Backlit LCD Display, QWERTY Programming And Control Keypad, Installation, Programming And Operating Manuals. Supports One To 10 Signaling Line Circuits (Up To Five LCM-320 And Five LEM-320). Order One Per System Or As Necessary (Up To 103 Network Nodes) For A Networked System. Requires Top Row Of A Cabinet. (Johnson Controls, Inc. #JCPU2-3030D).....	6,139.88	615.28
28 46 13 31-0892 EA Central Processing Unit For The JCPU2-640 With Integral 120 Volt AC Power Supply (Johnson Controls, Inc. #JCPU2-640).....	4,438.37	461.46
Note: Includes CHS2-M2 Chassis		
28 46 13 31-0893 EA Main Board, CPU, IFC3030, DI. (Johnson Controls, Inc. #JCPU-3030D).....	7,909.19	615.28
28 46 13 31-0894 EA Main Board, CPU, IFC640. (Johnson Controls, Inc. #JCPU-640).....	7,552.60	461.46
28 46 13 31-0895 EA Main Board, CPU, IFC640, EUR. (Johnson Controls, Inc. #JCPU-640E).....	5,485.70	461.46
28 46 13 31-0896 EA Digital Voice Command, Extended Memory. (Johnson Controls, Inc. #JDVC-EM).....	2,937.03	57.68
28 46 13 31-0897 EA Digital Voice Command, Extended Memory, Multi-Fiber. (Johnson Controls, Inc. #JDVC-EMF).....	2,966.77	57.68
28 46 13 31-0898 EA Digital Voice Command, Extended Memory, Single-Fiber. (Johnson Controls, Inc. #JDVC-EMSF).....	2,966.77	57.68
28 46 13 31-0899 EA Annunciator, Network Control. (Johnson Controls, Inc. #JNCA).....	3,514.06	76.91
28 46 13 31-0900 EA Network Control Annunciator-2, 640-characters; On Single Panel (one JCPU2-640) JCPU2-640 Systems, The JNCA-2 Can Be The Primary Display For The Panel And Connects Directly To The JCPU2-640. On Network Systems (Two Or More JCPU2-640's), One Network Display (Either JNCA-2 Or IFW) Is Required For Every System And Each JNCA-2 Connects To And Requires An NCM Network Control Module. Mounts In A Row Of FACP Node Or In Two Annunciator Module Positions. (Johnson Controls, Inc. #JNCA-2).....	2,982.06	76.91
Note: Mounting Includes: NCA/640-2-Kit (directly Mounting To The CHS2-M2), CA-2, ADP-4B, Or In An Annunciator Box, Such As The ABS-2DB (requires The CHS-2D).		
28 46 13 31-0901 EA Mass Notification Voice Paging; Requires JNOTIFY-PAA Hardware Package (Sold Separately). (Johnson Controls, Inc. #JNOTIFY-IP).....	2,705.07	461.46
28 46 13 31-0902 EA 160 Character Display Annunciator; For Use With JCPU-3030 And JCPU2-3030. (Johnson Controls, Inc. #LCD-160).....	2,125.97	76.91
28 46 13 31-0903 EA 80 Character LCD Annunciator. Mounts In ABS-1T, ABF-1D, ABF-2D, Or Flush Back Box. (Johnson Controls, Inc. #LCD-80).....	1,753.43	76.91



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-0904	EA		Loop Control Module. Each LCM May Be Expanded To Two Loops By Adding A LEM-320. IFC2- 3030 And IFC-3030 Only. (Johnson Controls, Inc. #LCM-320).....	2,806.32	76.91
28 46 13 31-0905	EA		Lamp Driver Annunciator Control Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-32).....	867.14	19.22
28 46 13 31-0906	EA		Cable 24": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL24).....	282.02	15.39
28 46 13 31-0907	EA		Cable 48": LDM TO Annunciator. (Johnson Controls, Inc. #LDM-CBL48).....	346.18	15.39
28 46 13 31-0908	EA		Lamp Driver Annunciator Expander Module. For Use With Custom Graphic Annunciators. 32 Points. (Johnson Controls, Inc. #LDM-E32).....	699.65	19.22
28 46 13 31-0909	EA		Relay Module. 32 Form-A Contacts. Connects To LDM-32 Or LDM-E32. (Johnson Controls, Inc. #LDM-R32).....	1,278.83	19.22
28 46 13 31-0910	EA		Loop Expander Module. Mounts As Daughter Board To LCM-320 To Provide Even Numbered SLC Loops. (Johnson Controls, Inc. #LEM-320).....	2,312.05	19.22
28 46 13 31-0911	EA		Addressable Control Module With FlashScan; Configured For One Class A Or Class B NAC. (Johnson Controls, Inc. #M300CJ).....	187.07	19.22
28 46 13 31-0912	EA		Addressable Dual Monitor Module; With FlashScan, Two Class B Circuits. (Johnson Controls, Inc. #M300DJ).....	294.35	19.22
28 46 13 31-0913	EA		Addressable Monitor Module; With FlashScan; Supervises Either A Class A Or Class B Circuit Of N.D. Dry-contact Input Devices. (Johnson Controls, Inc. #M300MJ).....	148.20	19.22
28 46 13 31-0914	EA		Addressable Relay Module With FlashScan; Provides Two Form-C Dry Contacts That Switch Together. (Johnson Controls, Inc. #M300RJ).....	205.43	19.22
28 46 13 31-0915	EA		Addressable Mini Module With FlashScan; Supervises A Class B Circuit Of N.D. Dry-contact Devices. (Johnson Controls, Inc. #M301MJ).....	163.23	19.22
28 46 13 31-0916	EA		Addressable 2-Wire Detector Monitor Module; With FlashScan. (Johnson Controls, Inc. #M302MJ).....	262.21	19.22
28 46 13 31-0917	EA		Addressable Firephone Control Module With FlashScan. (Johnson Controls, Inc. #M500FPJ).....	298.15	19.22
28 46 13 31-0918	EA		SLC Loop Isolator Module; Isolates Against Short Circuits On The SLC. (Johnson Controls, Inc. #M500XJ).....	170.88	19.22
28 46 13 31-0919	EA		Network INTFC, P2P, Wire. (Johnson Controls, Inc. #MIB-W).....	2,453.52	57.68
28 46 13 31-0920	EA		Network Adapter, Fiber. (Johnson Controls, Inc. #NAM-232F).....	2,178.03	38.46
28 46 13 31-0921	EA		Network Adapter, Wire. (Johnson Controls, Inc. #NAM-232V).....	2,014.08	38.46
28 46 13 31-0922	EA		Plate, Retrofit, NCA-2. (Johnson Controls, Inc. #NCA-2RETRO).....	77.76	7.69
28 46 13 31-0923	EA		Network Control Module - Multi Mode Fiber; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc) (Johnson Controls, Inc. #NCM-F).....	1,763.54	38.46
28 46 13 31-0924	EA		Network Control Module - Wire; Order One NCM Per Network Node (JCPU-640/3030, JNCA, JCPU2-640/3030, JNCA-2, DVC, Etc) (Johnson Controls, Inc. #NCM-W).....	1,679.89	38.46
28 46 13 31-0925	EA		NFV-25/50. (Johnson Controls, Inc. #NFV-25/50).....	4,281.86	76.91
28 46 13 31-0926	EA		NU-RPT101-1U RS485. (Johnson Controls, Inc. #NU-RPT101-1U).....	1,195.04	38.46
28 46 13 31-0927	EA		Key Switch, Remote Control. (Johnson Controls, Inc. #RKS-S).....	328.36	15.39
28 46 13 31-0928	EA		Microphone Assembly For Mounting To An ADP-4 Dress Panel. (Johnson Controls, Inc. #RM-1).....	759.48	38.46
28 46 13 31-0929	EA		Microphone Assembly For Mounting In An CAB-RM Cabinet. (Johnson Controls, Inc. #RM-1SA).....	759.48	38.46
28 46 13 31-0930	EA		Remote Page Jack. Allows Remote All-Call Paging. (Johnson Controls, Inc. #RPJ-1).....	205.42	15.39
28 46 13 31-0931	EA		SA-WBB, Weatherproof. (Johnson Controls, Inc. #SA-WBB).....	55.69	7.69
28 46 13 31-0932	EA		SA-WBBC, Weatherproof. (Johnson Controls, Inc. #SA-WBBC).....	55.69	7.69
28 46 13 31-0933	EA		Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCR).....	222.30	57.68
28 46 13 31-0934	EA		Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCRH).....	247.24	57.68
28 46 13 31-0935	EA		Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SCRHK).....	291.14	65.37
28 46 13 31-0936	EA		Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SCRK).....	287.57	65.37
28 46 13 31-0937	EA		Smoke Control Master; Includes Eight On/off/auto Switches. Supports One SCE-8. Includes Manual, Slide-in Labels. Mounts In ADP-4 Or ABS-4D. (Johnson Controls, Inc. #SCS-8).....	1,838.51	153.82
28 46 13 31-0938	EA		Smoke Control Lamp Driver. Outputs For 8 On/off/auto Switches With LED's. Intended For Custom Built Smoke Control Stations. Support One SCE-8L. (Johnson Controls, Inc. #SCS-8L).....	1,446.42	153.82
28 46 13 31-0939	EA		Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW).....	222.30	57.68
28 46 13 31-0940	EA		Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SCWH).....	247.24	57.68
28 46 13 31-0941	EA		Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SCW-P).....	222.30	57.68
28 46 13 31-0942	EA		Mounting Kit, M300/M500. (Johnson Controls, Inc. #SMB500).....	42.08	15.39
28 46 13 31-0943	EA		SMK-MOV Kit-LON. (Johnson Controls, Inc. #SMK-MOVKit-LON).....	43.99	7.69
28 46 13 31-0944	EA		SMK-MOV Kit-MSTP. (Johnson Controls, Inc. #SMK-MOVKit-MSTP).....	49.72	7.69
28 46 13 31-0945	EA		SPBBS, Wall, Back Box. (Johnson Controls, Inc. #SPBBS).....	44.04	7.69
28 46 13 31-0946	EA		Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR).....	205.11	57.68
28 46 13 31-0947	EA		Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH).....	247.24	57.68
28 46 13 31-0948	EA		Strobe, HI, Outdoor, Red. (Johnson Controls, Inc. #SRHK).....	291.14	65.37
28 46 13 31-0949	EA		Strobe, HI, 12/24 Volt DC, Red (Johnson Controls, Inc. #SRH-P).....	247.24	57.68
28 46 13 31-0950	EA		Strobe, Standard, Outdoor, Red. (Johnson Controls, Inc. #SRK).....	287.57	65.37
28 46 13 31-0951	EA		Strobe, Standard, 12/24 Volt DC, Red (Johnson Controls, Inc. #SR-P).....	222.30	57.68
28 46 13 31-0952	EA		Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW).....	222.30	57.68
28 46 13 31-0953	EA		Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH).....	247.24	57.68
28 46 13 31-0954	EA		Strobe, HI, 12/24 Volt DC, White (Johnson Controls, Inc. #SWH-P).....	247.24	57.68
28 46 13 31-0955	EA		Strobe, Standard, 12/24 Volt DC, White (Johnson Controls, Inc. #SW-P).....	222.30	57.68
28 46 13 31-0956	EA		Firefighter's Telephone Handset Only. (Johnson Controls, Inc. #TELH-1).....	286.16	19.22
28 46 13 31-0957	EA		Universal Digital Alarm Communicator Transmitter. (Johnson Controls, Inc. #UDACT).....	1,260.06	76.91
28 46 13 31-0958	EA		Speaker Strobe, Ceiling, White, 2 W (MAX), Dual Voltage, Multi (Johnson Controls, Inc. #SPSCW).....	326.51	76.91
28 46 13 31-0959	EA		Speaker, White, Ceiling Mount. (Johnson Controls, Inc. #SPCW).....	141.59	38.46
28 46 13 31-0960	EA		Speaker, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPCWV).....	141.59	38.46
28 46 13 31-0961	EA		Speaker Strobe, Red, Ceiling Mount, Standard Candela. (Johnson Controls, Inc. #SPSCR).....	249.60	38.46
28 46 13 31-0962	EA		Speaker Strobe, Red, Ceiling Mount, High Candela. (Johnson Controls, Inc. #SPSCRH).....	270.27	38.46
28 46 13 31-0963	EA		Speaker Strobe, Red, Ceiling Mount, High Candela, High Db. (Johnson Controls, Inc. #SPSCRVH).....	270.27	38.46
28 46 13 31-0964	EA		Speaker Strobe, White, Ceiling Mount, High Db. (Johnson Controls, Inc. #SPSCWV).....	241.40	38.46
28 46 13 31-0965	EA		Speaker Strobe Wall, WP, White, 2W (MAX), Dual Volt, Multi D (Johnson Controls, Inc. #SPSWK).....	324.12	38.46
28 46 13 31-0966	EA		Speaker Strobe, Wall, White, Standard Candela. (Johnson Controls, Inc. #SPSW).....	249.60	38.46
28 46 13 31-0967	EA		Wall Mount Speaker, White. (Johnson Controls, Inc. #SPW).....	141.59	38.46
28 46 13 31-0968	EA		Wall Mount Speaker, Red. (Johnson Controls, Inc. #SPR).....	141.59	38.46
28 46 13 31-0969	EA		Speaker Strobe, Wall, White, High Cd. (Johnson Controls, Inc. #SPSWH).....	270.27	38.46
28 46 13 31-0970	EA		Speaker Strobe, Wall, Red, High Cd. (Johnson Controls, Inc. #SPSR).....	249.60	38.46
28 46 13 31-0971	EA		Speaker Strobe, Wall, Red, High Db, High Candela. (Johnson Controls, Inc. #SPSRV).....	249.60	38.46



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

28 46 13 31-0972		Honeywell Fire Alarm <small>(28 46 13 31)</small>		
28 46 13 31-0973		Notifier Fire Alarm <small>(28 46 13 31-0972)</small>		
28 46 13 31-0974		Fire Alarm Control Panel And Accessories <small>(28 46 13 31-0973)</small>		
28 46 13 31-0975	EA	NFS2-3030 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-3030D) .....	6,706.22	769.11
28 46 13 31-0976	EA	NFS2-640 CPU For Intelligent Fire Alarm Control Panel (Notifier CPU2-640) .....	5,654.00	769.11
28 46 13 31-0977	EA	Central Processing Unit For NFS2-640 With Integral 240 Volt Power Supply Includes Chassis (Notifier CPU2-640E).....	5,371.58	769.11
28 46 13 31-0978	EA	Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320).....	6,693.84	769.11
28 46 13 31-0979	EA	Supports Installation Of Optional ACM-Series Annunciator In Same Cabinet, Black, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320C) .....	6,743.79	769.11
28 46 13 31-0980	EA	Black, 240 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320E) .....	6,585.42	769.11
28 46 13 31-0981	EA	Red, 120 Volt AC, Intelligent Fire Alarm Control Panel (Notifier NFS-320R) .....	6,434.20	769.11
28 46 13 31-0982	EA	Two-Tone Sequential Module (Notifier 2TTM) .....	409.12	38.46
28 46 13 31-0983	EA	5', Not Low Loss, Antenna Cable (Notifier 7626-5C) .....	102.31	7.69
28 46 13 31-0984	EA	25', Low Loss, Antenna Cable (Notifier 7626-25HC) .....	196.27	15.39
28 46 13 31-0985	EA	50', Low Loss, Antenna Cable (Notifier 7626-50HC) .....	297.98	23.07
28 46 13 31-0986	EA	IPGSM-COM, IPGSM-COMa Handheld Programmer (Notifier 7720P).....	461.99	
28 46 13 31-0987	EA	RJ45-DB9F Serial Programming Cable (Notifier ALMSC-119) .....	77.11	
28 46 13 31-0988	EA	120 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS).....	6,315.13	769.11
28 46 13 31-0989	EA	240 Volt AC Power Supply, Chassis, 80-Character Display, Keypad, NFS-320SYS CPU (Notifier CPU-320SYS) .....	6,373.48	769.11
28 46 13 31-0990	EA	3 dB Gain External/Remote Antenna (Notifier GSM-ANT3dB) .....	249.96	7.69
28 46 13 31-0991	EA	Plug In Transformer Box For IPGSM Communicator (Notifier HPTCOVER) .....	78.50	7.69
28 46 13 31-0992	EA	Mounting Bracket Kit For SFB-5UD, SFB-10UD, NFW2-100 And NFW-50 (Notifier IPBRKT) .....	112.62	15.39
28 46 13 31-0993	EA	Chassis To Mount IP Communicator In CHSA Series Chassis (Notifier IPCHSKIT) .....	112.28	19.22
28 46 13 31-0994	EA	IP Communicator (Notifier IPDACT-2).....	815.14	38.46
28 46 13 31-0995	EA	IP Communicator With Upload/Download Capability (Notifier IPDACT-2UD) .....	943.74	38.46
28 46 13 31-0996	EA	Red, IP Communicator External Mounting Enclosure (Notifier IPENC) .....	229.32	38.46
		Note: Includes IPBRKT.		
28 46 13 31-0997	EA	Black, IP Communicator External Mounting Enclosure (Notifier IPENC-B).....	228.72	38.46
		Note: Includes IPBRKT		
28 46 13 31-0998	EA	Dual 8TPC To Single 8TPC Y-Splitter With Two 9" Cables For Combining Panel Phone Jacks To One IPDACT Input (Notifier IPSPLT).....	60.17	15.39
28 46 13 31-0999	EA	Loop Control Module (Notifier LCM-320).....	2,229.36	76.91
28 46 13 31-1000	EA	Loop Expander Module (Notifier LEM-320).....	1,866.05	76.91
28 46 13 31-1001	EA	Keyboard Display Module For CPU2-640 (Notifier KDM-R2).....	1,699.81	76.91
28 46 13 31-1002	EA	7' DACT Phone Cord (Notifier MCBL-7) .....	29.32	
28 46 13 31-1003	EA	Backbox For UDACT, With Viewing Window And Optional Relay Mount (Notifier UBS-1) .....	236.71	19.22
28 46 13 31-1004	EA	Red, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1R) .....	275.16	38.46
28 46 13 31-1005	EA	Black, Metal Enclosure With Solid Door For Remote Mounting Of The UDACT-2 (Notifier UBS-1B) .....	275.16	38.46
28 46 13 31-1006	EA	Universal Digital Alarm Communicator Transmitter (Notifier UDACT-2) .....	853.66	38.46
28 46 13 31-1007	EA	Universal Zone Coder (Notifier UZC-256) .....	1,182.80	38.46
28 46 13 31-1008	EA	Hardware Kit To Connect UZC-256 To A PC (Notifier UZC-HI).....	367.56	
		Note: Includes null modem cable, AC power adapter, and 9-pin to 25-pin converter.		
28 46 13 31-1009	EA	Programming Software For ONYX Series Products, DVC And Associated Amplifiers, DVC-RPU And UDACT-2 (Notifier VERIFIRE-TCD).....	975.95	
28 46 13 31-1010	EA	ONYX Series Verifire Tools Upgrade (Notifier VERIFIREUG-TCD).....	641.80	
28 46 13 31-1011	EA	Central Station Receiver For Fire And Security (Notifier VISORALARM-PLUS).....	5,191.60	23.07
28 46 13 31-1012	EA	Surface Back Box For NBS-12LRA (Notifier SBA-10) .....	64.77	19.22
28 46 13 31-1013	EA	Up To 50 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-50X).....	2,781.24	769.11
28 46 13 31-1014	EA	Up To 198 Addressable Devices Supported, Addressable Fire Alarm Control Panel (Notifier NFW-100X).....	4,084.64	769.11
28 46 13 31-1015		ONYX Cabinets <small>(28 46 13 31-0973)</small>		
28 46 13 31-1016	EA	Red, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4R) .....	628.04	19.22
28 46 13 31-1017	EA	Red, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4R) .....	840.09	19.22
28 46 13 31-1018	EA	Red, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4R) .....	1,036.08	19.22
28 46 13 31-1019	EA	Battery Dress Plate For NFS-640 And NFS-3030 (Notifier BP-4) .....	144.98	23.07
28 46 13 31-1020	EA	Chassis Bridge (Notifier CB-1).....	131.04	19.22
28 46 13 31-1021	EA	Four Position Chassis (Notifier CHS-4).....	215.28	19.22
28 46 13 31-1022	EA	Low Profile 1st Row Chassis Assembly For CPU-640 / CPU-640E (Notifier CHS-M2).....	239.21	38.46
28 46 13 31-1023	EA	Black, Dress Panel Blank, Covers Unused Cabinet Row(s) (Notifier DP-1B) .....	128.90	23.07
28 46 13 31-1024	EA	Dress Plate For Top Row With CPU2-3030D (Notifier DP-DISP) .....	161.35	23.07
28 46 13 31-1025	EA	One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4) .....	429.02	38.46
28 46 13 31-1026	EA	One Tier, "A" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-A4B) .....	279.10	38.46
28 46 13 31-1027	EA	Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4) .....	547.25	57.68
28 46 13 31-1028	EA	Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4B) .....	347.81	57.68
28 46 13 31-1029	EA	Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4) .....	812.66	76.91
28 46 13 31-1030	EA	Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4B).....	508.68	76.91
28 46 13 31-1031	EA	Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4) .....	987.28	96.14
28 46 13 31-1032	EA	Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4B).....	593.91	96.14
28 46 13 31-1033	EA	Black, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4) .....	336.14	19.22
28 46 13 31-1034	EA	Black, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4B).....	233.73	19.22
28 46 13 31-1035	EA	Red, One Tier, "AA" Size Door Assembly, Lock And Keys (Notifier DR-AA4BR) .....	233.73	19.22
28 46 13 31-1036	EA	Red, One Tier, "AA" Size Door Assembly With Window, Lock And Keys (Notifier DR-AA4R).....	342.09	19.22
28 46 13 31-1037	EA	Red, One Tier, "A" Size Blank Door Assembly, Lock And Keys (Notifier DR-A4BR) .....	262.31	19.22
28 46 13 31-1038	EA	Red, One Tier, "A" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-A4R) .....	431.39	19.22
28 46 13 31-1039	EA	Red, Two Tier, "B" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-B4BR) .....	297.44	19.22
28 46 13 31-1040	EA	Red, Two Tier, "B" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-B4R) .....	512.36	19.22
28 46 13 31-1041	EA	Red, Three Tier, "C" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-C4BR) .....	424.25	19.22



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1042	EA		Red, Three Tier, "C" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-C4R).....	756.45	19.22
28 46 13 31-1043	EA		Red, Four Tier, "D" Size Door Assembly, Solid Door, Lock And Keys (Notifier DR-D4BR).....	474.26	19.22
28 46 13 31-1044	EA		Red, Four Tier, "D" Size Door Assembly, Lexan Window, Lock And Keys (Notifier DR-D4R).....	904.10	19.22
28 46 13 31-1045	EA		Black, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4).....	447.22	38.46
28 46 13 31-1046	EA		Black, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4).....	652.02	38.46
28 46 13 31-1047	EA		Black, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4).....	761.56	38.46
28 46 13 31-1048	EA		Black, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4).....	467.46	38.46
28 46 13 31-1049	EA		Black, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4).....	697.26	38.46
28 46 13 31-1050	EA		Black, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4).....	811.57	38.46
28 46 13 31-1051	EA		Red, Two Tiers, Equipment Backbox Assembly (Notifier EQBB-B4R).....	450.79	38.46
28 46 13 31-1052	EA		Red, Three Tiers, Equipment Backbox Assembly (Notifier EQBB-C4R).....	652.02	38.46
28 46 13 31-1053	EA		Red, Four Tiers, Equipment Backbox Assembly (Notifier EQBB-D4R).....	771.09	38.46
28 46 13 31-1054	EA		Red, Vented, Two Tiers, Equipment Door Assembly (Notifier EQDR-B4R).....	488.89	38.46
28 46 13 31-1055	EA		Red, Vented, Three Tiers, Equipment Door Assembly (Notifier EQDR-C4R).....	697.26	38.46
28 46 13 31-1056	EA		Red, Vented, Four Tiers, Equipment Door Assembly (Notifier EQDR-D4R).....	811.57	38.46
28 46 13 31-1057	EA		Backbox With Door For ONYX Firstvision™ (Notifier FIRSTVISION-ENC).....	3,676.45	192.28
28 46 13 31-1058	EA		CAB-4 Series Mounting Kit (Notifier P40-KITB).....	421.02	38.46
			Note: Includes chassis, hinged dress plate, and mounting hardware.		
28 46 13 31-1059	EA		Black, One Tier Backbox Assembly (Notifier SBB-A4).....	464.55	115.36
28 46 13 31-1060	EA		Black, Two Tier Backbox Assembly (Notifier SBB-B4).....	652.89	153.82
28 46 13 31-1061	EA		Black, Three Tier Backbox Assembly (Notifier SBB-C4).....	838.57	153.82
28 46 13 31-1062	EA		Black, Four Tier Backbox Assembly (Notifier SBB-D4).....	1,022.75	192.28
28 46 13 31-1063	EA		Black, Mini, One Tier, Backbox (Notifier SBB-AA4).....	270.99	38.46
28 46 13 31-1064	EA		Red, Mini, One Tier, Backbox (Notifier SBB-AA4R).....	270.99	38.46
28 46 13 31-1065	EA		Red, One Tier Backbox Assembly (Notifier SBB-A4R).....	325.77	38.46
28 46 13 31-1066	EA		Red, Two Tier Backbox Assembly (Notifier SBB-B4R).....	446.03	38.46
28 46 13 31-1067	EA		Red, Three Tier Backbox Assembly (Notifier SBB-C4R).....	644.87	38.46
28 46 13 31-1068	EA		Red, Four Tier Backbox Assembly (Notifier SBB-D4R).....	759.18	38.46
28 46 13 31-1069	EA		Trim Ring For NFS-320 Cabinet (Notifier TR-320).....	255.12	23.07
28 46 13 31-1070	EA		Red, Trim Ring For NFS-320 Cabinet (Notifier TR-320R).....	255.12	23.07
28 46 13 31-1071	EA		Black, AA Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-AA4).....	340.25	23.07
28 46 13 31-1072	EA		Black, A Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-A4).....	271.19	23.07
28 46 13 31-1073	EA		Black, B Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-B4).....	272.98	23.07
28 46 13 31-1074	EA		Black, C Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-C4).....	270.00	23.07
28 46 13 31-1075	EA		Black, D Size Trim Ring For CAB-4 Or CAB-3 Series Cabinet (Notifier TR-D4).....	276.55	23.07
28 46 13 31-1076	EA		2" Filler Dress Plate For ADP-4B Installed In The Top Row Of A CAB-4 Series Backbox (Notifier VP-2B).....	104.97	23.07
28 46 13 31-1077	EA		Wire Trays For Routing Wire In A CAB-4 Series Backbox (Notifier WC-2).....	69.21	7.69
<b>28 46 13 31-1078</b>			<b>NFS2-3030/640 Cabinet Mechanicals (28 46 13 31-0973)</b>		
28 46 13 31-1079	EA		Dress Plate For Middle Rows With CPU2-640 (Notifier ADP2-640).....	146.56	23.07
28 46 13 31-1080	EA		Blank Module Dress Plate (Notifier BM-1B).....	123.17	23.07
28 46 13 31-1081	EA		Battery Dress Plate For NFS2-3030, NFS2-640, NCA-2 And DVC System (Notifier BP2-4).....	138.30	23.07
28 46 13 31-1082	EA		Four Position Expansion Chassis (Notifier CHS-4MB).....	330.18	19.22
28 46 13 31-1083	EA		Standard 1st Row Chassis Assembly For CPU-3030 (Notifier CHS-M3).....	313.42	57.68
28 46 13 31-1084	EA		Dress Plate For Top Row With CPU2-640 (Notifier DP-DISP2).....	152.06	23.07
<b>28 46 13 31-1085</b>			<b>NFS-3030/640 Cabinet Mechanicals (28 46 13 31-0973)</b>		
28 46 13 31-1086	EA		Annunciator Dress Plate (Notifier ADP-4B).....	139.68	23.07
28 46 13 31-1087	EA		Blank Module Dress Plate (Notifier BMP-1).....	91.54	23.07
28 46 13 31-1088	EA		Low Profile Four Position Chassis For AA-30 Or LDM (Notifier CHS-4L).....	200.01	38.46
28 46 13 31-1089	EA		Module Dress Plate (Notifier MP-1B).....	141.06	23.07
<b>28 46 13 31-1090</b>			<b>Battery Cabinets (28 46 13 31-0973)</b>		
28 46 13 31-1091	EA		Six Position Chassis (Notifier CHS-6).....	135.09	38.46
28 46 13 31-1092	EA		Black, 24" x 14" x 7-3/4" Battery Backbox (Notifier NFS-LBB).....	635.11	115.36
<b>28 46 13 31-1093</b>			<b>Digital Voice (28 46 13 31-0973)</b>		
28 46 13 31-1094	EA		Chassis Used With BB-XP (Notifier 18439).....	68.82	19.22
28 46 13 31-1095	EA		220 Volt AC, 100 Watt, 70.7 VRMS, Tone Generator, Audio Amplifier (Notifier AA-100E).....	2,407.22	57.68
28 46 13 31-1096	EA		220 Volt AC, 120 Watt, 25 VRMS, Tone Generator, Audio Amplifier (Notifier AA-120E).....	2,340.30	57.68
28 46 13 31-1097	EA		220 Volt AC, 30 Watt, 25 VRMS Audio Amplifier (Notifier AA-30E).....	1,189.43	57.68
28 46 13 31-1098	EA		Black, Two Tier Door For CA-2 Chassis Configuration (Notifier ADDR-B4).....	620.15	57.68
28 46 13 31-1099	EA		Black, Three Tier Door For CA-2 Chassis Configuration (Notifier ADDR-C4).....	840.16	76.91
28 46 13 31-1100	EA		Black, Four Tier Door For CA-2 Chassis Configuration (Notifier ADDR-D4).....	1,046.43	96.14
28 46 13 31-1101	EA		Multimode Audio Fiber Link Receiver (Notifier AFL-RM).....	1,028.10	38.46
28 46 13 31-1102	EA		Multimode Audio Fiber Link Transmitter (Notifier AFL-TM).....	1,028.10	38.46
28 46 13 31-1103	EA		Single Mode Audio Fiber Link Transmitter (Notifier AFL-TS).....	2,184.46	38.46
28 46 13 31-1104	EA		15" x 8-3/8" x 3-3/8", Flush Or Surface Mounted Backbox (Notifier AFAWS-BX).....	135.80	19.22
28 46 13 31-1105	EA		Flush Mounted, Key Lock, Door (Notifier AFAWS-KR).....	224.21	19.22
28 46 13 31-1106	EA		Surface Mounted, Key Lock, Door (Notifier AFAWS-KS).....	225.40	19.22
28 46 13 31-1107	EA		Flush Mounted, Latch Style Lock, Door (Notifier AFAWS-LR).....	218.26	19.22
28 46 13 31-1108	EA		Surface Mounted, Latch Style Lock, Door (Notifier AFAWS-LS).....	220.64	19.22
28 46 13 31-1109	EA		Armored Coil Cord, Telephone Chassis (Notifier AFAWS-TELA).....	442.11	19.22
28 46 13 31-1110	EA		Coil Cord, Telephone Chassis (Notifier AFAWS-TELC).....	339.71	19.22
28 46 13 31-1111	EA		Hammer Attached To Chain, Breakglass Insert (Notifier BRKG-B).....	139.22	
28 46 13 31-1112	EA		For 25 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-25V).....	619.98	38.46

28 Electronic Safety and Security

28 40 Life Safety

28 46 Fire Detection and Alarm



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1113	EA		For 70 VRMS DAX Or DAA2 Series, Back-Up Digital Amplifier (Notifier BDA-70V).....	625.47	38.46
28 46 13 31-1114	EA		Blank Dress Plate For CA-2 (Notifier BP-CA2).....	134.01	19.22
28 46 13 31-1115	EA		One Tier Chassis For Digital Voice Command Panel (Notifier CA-1).....	175.94	38.46
28 46 13 31-1116	EA		Two Tier Chassis For Digital Voice Command Panel, With MIC-1 (Notifier CA-2).....	519.74	57.68
28 46 13 31-1117	EA		Black, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RM).....	269.21	38.46
28 46 13 31-1118	EA		Red, 6.08" x 8.301" x 3.655", Remote Cabinet (Notifier CAB-RMR).....	269.21	38.46
28 46 13 31-1119	EA		Chassis, Phone Well, TELH-1 And Hardware (Notifier CFFT-1).....	336.14	19.22
28 46 13 31-1120	EA		Chassis With Paging Microphone With Well (Notifier CMIC-1).....	332.56	19.22
28 46 13 31-1121	EA		120 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025).....	2,054.79	38.46
28 46 13 31-1122	EA		Multi-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025F).....	1,923.46	38.46
28 46 13 31-1123	EA		Single-Mode Fiber-Optic Media 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-5025SF).....	1,923.46	38.46
28 46 13 31-1124	EA		220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070).....	2,120.81	38.46
28 46 13 31-1125	EA		Multi-Mode Fiber-Optic Media 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA-5070F).....	2,091.33	38.46
28 46 13 31-1126	EA		120 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525).....	2,201.96	38.46
28 46 13 31-1127	EA		Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	2,511.00	38.46
28 46 13 31-1128	EA		Single-Mode Fiber-Optic Media 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA-7525SF).....	2,511.00	38.46
28 46 13 31-1129	EA		220-240 Volt AC, 50 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-5025E).....	1,954.07	38.46
28 46 13 31-1130	EA		220-240 Volt AC, 50 Watt, 70 VRMS Digital Audio Amplifier (Notifier DAA2-5070E).....	2,008.92	38.46
28 46 13 31-1131	EA		220-240 Volt AC, 75 Watt, 25 VRMS Digital Audio Amplifier (Notifier DAA2-7525E).....	2,094.50	38.46
28 46 13 31-1132	EA		120 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525).....	1,332.00	38.46
28 46 13 31-1133	EA		220-240 Volt AC, 35 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-3525E).....	1,367.11	38.46
28 46 13 31-1134	EA		120 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570).....	1,398.93	38.46
28 46 13 31-1135	EA		220-240 Volt AC, 35 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-3570E).....	1,445.01	38.46
28 46 13 31-1136	EA		120 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025).....	1,454.88	38.46
28 46 13 31-1137	EA		220-240 Volt AC, 50 Watt, 25 VRMS, Digital Audio Amplifier (Notifier DAX-5025E).....	1,497.67	38.46
28 46 13 31-1138	EA		120 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070).....	1,540.45	38.46
28 46 13 31-1139	EA		220-240 Volt AC, 50 Watt, 70 VRMS, Digital Audio Amplifier (Notifier DAX-5070E).....	1,617.25	38.46
28 46 13 31-1140	EA		Dress Plate For CFFT-1 (Notifier DP-CFFT).....	154.26	19.22
28 46 13 31-1141	EA		Dress Panel For One Tier Chassis For Digital Voice Command Panel (Notifier DPA-1).....	132.80	23.07
28 46 13 31-1142	EA		Dress Panel For One Tier Chassis For Digital Voice Command Panel, Supports Keypad (Notifier DPA-1A4).....	152.06	23.07
28 46 13 31-1143	EA		Dress Panel For Two Tier Chassis For Digital Voice Command Panel (Notifier DPA-2B).....	255.22	23.07
28 46 13 31-1144	EA		WPS Power Amplifier (Notifier DPA3204P).....	732.98	38.46
28 46 13 31-1145	EA		WPS Power Amplifier (Notifier DPA4001P).....	619.98	38.46
28 46 13 31-1146	EA		Modem Interface For Direct Wire (No Dial-Up Capabilities) For Interconnecting Panels (Notifier DPI-232).....	1,383.57	38.46
28 46 13 31-1147	EA		120 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMP).....	1,037.98	38.46
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V					
28 46 13 31-1148	EA		220-240 Volt AC, 125 Watt, 25 VRMS Digital Series Amplifier (Notifier DS-AMPE).....	1,050.05	38.46
Note: Can Be Converted To 70 VRMS, 100 Watts With A DS-XF70V					
28 46 13 31-1149	EA		Digital Series Distribution Board, Supports One To Four DS-AMP Or DS-AMPE (Notifier DS-DB).....	1,741.23	38.46
28 46 13 31-1150	EA		125 Watt, 25 VRMS DS Series Backup Amplifier Board (Can Be Converted To 70 VRMS, 100 Watt Amplifier With A DS-XF70V) (Notifier DS-BDA).....	685.81	38.46
28 46 13 31-1151	EA		Converts One DAX Or DAA2 DAL Port To Multi-Mode Fiber, Fiber Option Module (Notifier DS-FM).....	396.02	38.46
28 46 13 31-1152	EA		Converts One DAX Or DAA2 Port To ST Style Multi-Mode Fiber (For Connection To DVC-EMF Or DAA-XXXF Series Amplifier), Fiber Option Module (Notifier DS-RFM).....	396.02	38.46
28 46 13 31-1153	EA		Converts One DAX Or DAA2 DAL Port To Single-Mode Fiber, Fiber Option Module (Notifier DS-SFM).....	396.02	38.46
28 46 13 31-1154	EA		Converts DS-AMP, DS-AMPE, Or DS-BDA To 70 VRMS, 100 Watt, DS Series Transformer (Notifier DS-XF70V).....	176.04	38.46
28 46 13 31-1155	EA		Analog Output Board For Digital Voice Command (Notifier DVC-AO).....	372.63	38.46
28 46 13 31-1156	EA		Extended Memory For Digital Voice Command (Notifier DVC-EM).....	2,071.30	38.46
28 46 13 31-1157	EA		Keypad For Digital Voice Command (Notifier DVC-KD).....	628.35	76.91
28 46 13 31-1158	EA		Microphone For NFC-50/100, NFC-LOC, NFC-RPU And NFC-RM (Notifier ECC-MICROPHONE).....	307.11	
28 46 13 31-1159	EA		Portable Fireman's Telephone Handset (Notifier FHS).....	185.06	
28 46 13 31-1160	EA		Red, Fireman's Telephone Handset (Notifier FHS-F).....	214.24	
28 46 13 31-1161	EA		Recessed, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-R).....	541.28	38.46
28 46 13 31-1162	EA		Surface Mounted, Fireman's Handset Storage Cabinet, Holds Six Handsets (Notifier FHSC-S).....	541.28	38.46
28 46 13 31-1163	EA		Fireman's Phone Jack On A Single Gang Plate (Notifier FPJ).....	89.99	11.54
28 46 13 31-1164	EA		Paging Microphone Only (Notifier MIC-1).....	257.09	38.46
28 46 13 31-1165	EA		Firefighter's Telephone Handset (Notifier TELH-1).....	211.26	
28 46 13 31-1166	EA		Remote Microphone Assembly For Mounting On An ADP-4 Dress Plate (Notifier RM-1).....	611.96	38.46
28 46 13 31-1167	EA		Remote Microphone Assembly For Mounting In A Stand Alone Cabinet (Notifier RM-1SA).....	611.96	38.46
<b>28 46 13 31-1168 Amplifiers (28 46 13 31-0973)</b>					
28 46 13 31-1169	EA		30 Watt Audio Amplifier At 25 VRMS, 120 Volt AC (Notifier AA-30).....	1,162.13	38.46
28 46 13 31-1170	EA		100 Watt Audio Amplifier At 70.7 VRMS, 120 Volt AC, Tone Generator (Notifier AA-100).....	2,516.94	38.46
28 46 13 31-1171	EA		120 Watt Audio Amplifier At 25 VRMS, 120 Volt AC, Tone Generator (Notifier AA-120).....	2,445.42	38.46
28 46 13 31-1172	EA		Audio Coupling Transformer (Notifier ACT-1).....	191.07	38.46
28 46 13 31-1173	EA		Audio Coupling Transformer For DVC-AO (Notifier ACT-4).....	221.33	38.46
28 46 13 31-1174	EA		Audio Coupling Transformer For DAA-5025 (Notifier ACT-25).....	221.33	38.46
28 46 13 31-1175	EA		Audio Coupling Transformer For DAA-5070 (Notifier ACT-70).....	221.33	38.46
28 46 13 31-1176	EA		50 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5025).....	1,871.78	38.46
28 46 13 31-1177	EA		50 Watt, 70 Volt, 120 VAC Digital Amplifier (Notifier DAA2-5070).....	1,935.41	38.46
28 46 13 31-1178	EA		75 Watt, 25 Volt, 120 VAC Digital Amplifier (Notifier DAA2-7525).....	2,010.02	38.46
28 46 13 31-1179	EA		Distributed Amplifier With Backup Capability (Notifier NFC-50/100DA).....	3,653.49	38.46
Note: Requires NFC-BDA-BU					
28 46 13 31-1180	EA		50 Watt, 25 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25V).....	740.66	38.46
Note: Requires NFC-BDA-BU					
28 46 13 31-1181	EA		50 Watt, 70 Volt Amplifier For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70V).....	743.95	38.46
Note: Requires NFC-BDA-BU					
<b>28 46 13 31-1182 FireVoice-25/50 Emergency Voice Evacuation Control Panels (28 46 13 31-0973)</b>					



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1183 EA 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50).....	5,407.57	769.11
28 46 13 31-1184 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50DA).....	3,888.36	769.11
28 46 13 31-1185 EA Single Channel 25 Watt, 25 VRMS Voice Evacuation Control Panel Used With NFV-25/50ZS (Notifier NFV-25/50DAZS).....	4,979.50	769.11
28 46 13 31-1186 EA Zoned System 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZS) .....	6,406.38	769.11
28 46 13 31-1187 EA Zoned System With Telephone 25 Watt, 25 VRMS Voice Evacuation Control Panel (Notifier NFV-25/50ZST) .....	7,061.07	769.11
<b>28 46 13 31-1188 System Printer (28 46 13 31-0973)</b>		
28 46 13 31-1189 EA 80 Column, 120 Volt AC, Desktop Printer (Notifier PRN-6) .....	2,500.44	38.46
<b>28 46 13 31-1190 Batteries (28 46 13 31-0973)</b>		
28 46 13 31-1191 EA 5 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1250-BP) .....	697.26	38.46
28 46 13 31-1192 EA 7 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-1270-BP) .....	547.31	38.46
28 46 13 31-1193 EA 12 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12120-BP) .....	715.11	38.46
28 46 13 31-1194 EA 18 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12180-BP) .....	423.52	38.46
28 46 13 31-1195 EA 26 Ampere Hours, 12 Volt DC, Sealed Battery Pack (Notifier BAT-12260-BP) .....	585.82	38.46
28 46 13 31-1196 EA 55 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-12550).....	584.45	38.46
28 46 13 31-1197 EA 100 Ampere Hours, 12 Volt DC, Sealed Battery (Notifier BAT-121000).....	921.16	38.46
<b>28 46 13 31-1198 Battery Backboxes And Miscellaneous Mechanicals (28 46 13 31-0973)</b>		
28 46 13 31-1199 EA 14-1/2" x 8-1/4" x 4-3/4", Holds Up To Two BAT-12180 Batteries, Battery Backbox (Notifier BB-17).....	197.87	30.76
28 46 13 31-1200 EA 24" x 12.55" x 5.218", Mounts Up To Six XP6 Boards Or ACPS-610, Cabinet (Notifier BB-25) .....	325.87	30.76
Note: XP6 modules require a CHS-6.		
28 46 13 31-1201 EA 15.6" x 15.5" x 5.152", Mounts Up To Two 26 Ampere Hours And Charger, Battery Backbox (Notifier BB-26) .....	524.97	153.82
28 46 13 31-1202 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH).....	263.96	76.91
28 46 13 31-1203 EA Holds Up To Two BAT-12120 12 Ampere Hours Batteries, Battery Holder (Notifier CHS-BH1).....	141.46	19.22
28 46 13 31-1204 EA Battery Bracket For Two 26 Ampere Hours Batteries (Notifier SEISKIT-BB25).....	349.09	30.76
28 46 13 31-1205 EA Two 26 Ampere Hours Battery Bracket Seismic Kit For CAB-4 Series Cabinets (Notifier SEISKIT-CAB).....	261.57	30.76
28 46 13 31-1206 EA Two 12 Ampere Hours Battery Bracket Seismic Kit For DAX, DAA, And DAA2 Series Amplifiers (Notifier SEISKIT-DAA).....	289.55	30.76
28 46 13 31-1207 EA Two 55 Ampere Hours Battery Bracket Seismic Kit For NFS-LBB (Notifier SEISKIT-LBB).....	308.00	30.76
28 46 13 31-1208 EA Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For FIREVOICE 25/50 Series (Notifier SEISKIT-2550).....	453.27	30.76
28 46 13 31-1209 EA Two 26 Ampere Hour Battery Bracket Seismic Kit For NFS-320 And BB-26 Series (Notifier SEISKIT-320/B26).....	272.28	30.76
28 46 13 31-1210 EA Two 100 Ampere Hour Battery Bracket Seismic Kit For BB-100 And BB-200 Series (Notifier SEISKIT-BB100).....	381.83	30.76
Note: Two kits are required for the BB-200		
28 46 13 31-1211 EA Two 18 Ampere Hour Battery Bracket Seismic Kit For BB-17 Series (Notifier SEISKIT-BB17).....	331.82	30.76
Note: Two kits are required for the BB-200		
28 46 13 31-1212 EA Two 26 Ampere Hour Battery Bracket Seismic Kit For BB-25 Series (Notifier SEISKIT-BB25).....	338.96	30.76
Note: Two kits are required for the BB-200		
28 46 13 31-1213 EA Two 7, 12, Or 18 Ampere Hour Battery Bracket Seismic Kit For SFP-5UD, SFP-10UD, Firewarden 100-2, RP-2001, And RP-2002 Series (Notifier SEISKIT-COMMENC) .....	297.29	30.76
Note: Two kits are required for the BB-200		
28 46 13 31-1214 EA Two 7 Or 12 Ampere Hour Battery Bracket Seismic Kit For FCPS-24S6/8, CAB-PS1, SFP-2402 And SFP-2404 Series (Notifier SEISKIT-PS/2/4).....	279.43	30.76
Note: Two kits are required for the BB-200		
<b>28 46 13 31-1215 Power Supplies And Chargers (28 46 13 31-0973)</b>		
28 46 13 31-1216 EA 120 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610) .....	1,627.18	57.68
28 46 13 31-1217 EA 220/240 Volt AC, 6 Or 10 Amperes, Addressable Charging Power Supply (Notifier ACPS-610E) .....	1,706.17	57.68
28 46 13 31-1218 EA Addressable Power Supply, 120 Volt AC For NFS-3030, NFS2-3030 And NCA-2 (Notifier AMPS-24).....	1,767.33	38.46
28 46 13 31-1219 EA 6A Auxiliary Power Supply (Notifier APS-6R) .....	1,038.79	38.46
28 46 13 31-1220 EA 10 Amperes Battery Charger (Notifier BC10A) .....	1,251.29	57.68
28 46 13 31-1221 EA 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100).....	691.21	46.15
Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 13 31-1222 EA Red, 33.34" x 22.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS-3030 Or NFS2-3030 (Notifier BB-100R) .....	699.55	46.15
Note: Holds four 55 ampere hour or two 100 ampere hour batteries		
28 46 13 31-1223 EA 30.34" x 36.5" x 7.5", Combination Power Supply And Battery Enclosure For NFS2-3030 (Notifier BB-200).....	964.49	46.15
Note: Holds four 55 ampere hour or four 100 ampere hour batteries		
28 46 13 31-1224 EA 30.34" x 36.5" x 7.5", Holds Four 55 Ampere Hours Or Four 100 Ampere Hours Batteries, For NFS2-3030, Red, Combination Power Supply And Battery Enclosure (Notifier BB-200R).....	964.49	46.15
28 46 13 31-1225 EA 15.218" x 14.5" x 3.562" ACPS Stand-Alone Cabinet (Notifier CAB-PS1).....	248.37	38.46
28 46 13 31-1226 EA 25 To 120 Ampere Hours Battery Charger (Notifier CHG-120) .....	1,365.70	38.46
28 46 13 31-1227 EA Mounts XPIQ-Ps And/or CHS-BH In A CAB-3/4 Row, Also Mount One ACPS-610 In CAB-3 Row, Chassis Assembly (Notifier CHS-PS).....	112.28	19.22
28 46 13 31-1228 EA Door Used For Mounting ACPS-610 (E) In A CAB-PS1 Cabinet When Replacing ACPS-2406 (Notifier DR-PS1) .....	173.60	19.22
28 46 13 31-1229 EA 8 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8).....	910.43	38.46
28 46 13 31-1230 EA 8.0 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8E).....	989.93	115.36
28 46 13 31-1231 EA Red, 8 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S8R) .....	949.34	115.36
28 46 13 31-1232 EA 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8).....	1,090.86	115.36
28 46 13 31-1233 EA 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8E).....	1,082.09	115.36
28 46 13 31-1234 EA Chassis Mounted, 8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CM).....	1,032.54	57.68
28 46 13 31-1235 EA Chassis Mounted, 8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF8CME).....	1,032.54	57.68
28 46 13 31-1236 EA 12 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12).....	1,275.01	57.68
28 46 13 31-1237 EA 12 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPFF12E).....	1,219.05	57.68
28 46 13 31-1238 EA 12 Amperes, 24 Volt DC, 120 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CM).....	1,293.66	115.36
28 46 13 31-1239 EA 12 Amperes, 24 Volt DC, 220 Volt AC, Chassis Mounted, NAC Fire Alarm Power Supply (Notifier HPFF12CME).....	1,293.66	115.36

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-1240	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6).....	929.59	115.36
28 46	13 31-1241	EA	6 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S6E).....	929.59	115.36
28 46	13 31-1242	EA	8 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8).....	999.80	115.36
28 46	13 31-1243	EA	8 Amperes, 24 Volt DC, 220 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF24S8E).....	999.80	115.36
28 46	13 31-1244	EA	6 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF602ULADA).....	812.20	115.36
28 46	13 31-1245	EA	9 Amperes, 24 Volt DC, 120 Volt AC, NAC Fire Alarm Power Supply (Notifier HPF902ULADA).....	949.34	115.36
28 46	13 31-1246	EA	Class A Adapter HPFF8/HPFF12 (Notifier HPP31076).....	201.93	19.22
28 46	13 31-1247	EA	Up To 3 Amperes, Main Power Supply And Charger (Notifier MPS-24A).....	1,503.79	38.46
28 46	13 31-1248	EA	Class A (Style Y) NAC Option Module For FCPS-2406 And FCPS-2408 (Notifier ZNAC-4).....	245.99	38.46
28 46	13 31-1249	EA	240 Volt AC Addressable Power Supply (Notifier AMPS-24E).....	1,855.82	38.46
28 46	13 31-1250	EA	6 Amperes, 120 Volt AC Auxiliary Power Supply (Notifier APS2-6R).....	961.41	115.36
28 46	13 31-1251	EA	6 Amperes, 220-240 Volt AC Auxiliary Power Supply (Notifier APS2-6RE).....	999.80	115.36
28 46	13 31-1252	EA	25 To 75 Ampere Hour Sealed Lead Acid Battery Charger (Notifier CHG-75).....	884.38	38.46
28 46	13 31-1253	EA	6 Amperes, 240 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6E).....	928.49	115.36
28 46	13 31-1254	EA	6 Amperes, 120 Volt AC Remote Charger Power Supply (Notifier FCPS-24S6R).....	907.65	115.36
28 46	13 31-1255		<b>Network Control Annunciators</b> (28 46 13 31-0973)		
28 46	13 31-1256	EA	Network Control Annunciator For NFS2-3030, NFS-3030, NFS-320, NFS-640 And NFS2-640 (Notifier NCA-2).....	2,500.21	115.36
28 46	13 31-1257	EA	Retro-Fit Plate For Mounting NCA2 (Notifier NCA-2RETRO).....	102.54	23.07
28 46	13 31-1258	EA	Kit For Mounting NCA-2 To CHS-M2 (Notifier NCA/640-2-Kit).....	76.41	23.07
28 46	13 31-1259		<b>FIRSTVISION Firefighter's Display</b> (28 46 13 31-0973)		
28 46	13 31-1260	EA	ONYX Firstvision™ Touchscreen Assembly (Notifier FIRSTVISION-LCD).....	19,581.71	769.11
28 46	13 31-1261		<b>FlashScan Addressable Modules</b> (28 46 13 31-0973)		
28 46	13 31-1262	EA	Intelligent Addressable Control Module (Notifier FCM-1).....	226.83	38.46
28 46	13 31-1263	EA	Addressable Dual Monitor Module (Notifier FDM-1).....	251.59	38.46
28 46	13 31-1264	EA	Intelligent Addressable Monitor Module (Notifier FMM-1).....	191.07	38.46
28 46	13 31-1265	EA	Intelligent Addressable Miniature Monitor Module (Notifier FMM-101).....	171.82	38.46
28 46	13 31-1266	EA	Intelligent Addressable 4 - 20mA Analog Input Module (Notifier FMM-4-20).....	338.24	38.46
28 46	13 31-1267	EA	Intelligent Addressable Relay Module (Notifier FRM-1).....	209.38	38.46
28 46	13 31-1268	EA	Intelligent Addressable 2-Wire Detector Monitor Module (Notifier FZM-1).....	281.85	38.46
28 46	13 31-1269	EA	SLC Loop Powered Fault Isolator Module (Notifier ISO-X).....	188.32	38.46
28 46	13 31-1270		<b>Addressable Device Bases And Accessories</b> (28 46 13 31-0973)		
28 46	13 31-1271	EA	Intelligent Detector Base With Flange (Notifier B710LP).....	70.35	19.22
28 46	13 31-1272	EA	Weatherproof Device Housing (Notifier DH4000E-1).....	559.69	38.46
28 46	13 31-1273	EA	Detector Base For All Wireless Smoke And Heat Detectors (Notifier B210W).....	68.82	19.22
28 46	13 31-1274	EA	Swift AV Base Ceiling (Notifier WAV-CRL).....	346.85	19.22
28 46	13 31-1275	EA	Swift AV Base Wall (Notifier WAV-RL).....	346.85	19.22
28 46	13 31-1276		<b>XP6/XP10 Transponder</b> (28 46 13 31-0973)		
28 46	13 31-1277	EA	Synchronization Daughter Module For XP6-C (Notifier SYNC-1).....	171.13	38.46
28 46	13 31-1278	EA	Six Circuit Supervised Control Module (Notifier XP6-C).....	797.64	38.46
28 46	13 31-1279	EA	Six Zone Intelligent To Conventional Interface Module (Notifier XP6-MA).....	962.69	38.46
28 46	13 31-1280	EA	Six Relay Control Module (Notifier XP6-R).....	767.38	38.46
28 46	13 31-1281	EA	Ten Input Monitor Module (Notifier XP10-M).....	921.43	38.46
28 46	13 31-1282		<b>LCD Display Annunciators</b> (28 46 13 31-0973)		
28 46	13 31-1283	EA	80 Character LCD Fire Annunciator For FireWarden-100-2, NFS-640, NFS2-640 And NFS-320 (Notifier FDU-80).....	1,049.12	115.36
28 46	13 31-1284	EA	80 Character LCD Annunciator For NFS-640, NFS-3030, NFS2-640, NFS2-3030 And NFS-320 (Notifier LCD-80).....	1,454.87	115.36
28 46	13 31-1285	EA	640 Character LCD Annunciator For NFS-3030 And NFS2-3030 (Notifier LCD-160).....	1,504.39	115.36
28 46	13 31-1286	EA	8 To 16 Switch Smoke Control Expander (Notifier SCE-8).....	986.60	38.46
28 46	13 31-1287	EA	8 To 16 Switch Smoke Control Lamp Driver Expander (Notifier SCE-8L).....	528.19	38.46
28 46	13 31-1288	EA	Eight Switch Smoke Control Master Module (Notifier SCS-8).....	1,274.75	38.46
28 46	13 31-1289	EA	White, 80 Character Display, Remote LCD Annunciator (Notifier N-ANN-80-W).....	678.35	115.36
28 46	13 31-1290		<b>ONYX ACM And AEM Series LED Annunciators</b> (28 46 13 31-0973)		
28 46	13 31-1291	EA	Remote, Eight Form C Relay Module (Notifier ACM-8R).....	569.86	38.46
28 46	13 31-1292	EA	16 Alarm LEDs, 16 Trouble LEDs, 16 Controls Switches, Annunciator Control Module (Notifier ACM-16AT).....	1,052.10	38.46
28 46	13 31-1293	EA	16 Alarm LEDs, 16 Trouble LEDs, 16 Control Switches, Annunciator Expander Module (Notifier AEM-16AT).....	808.64	38.46
28 46	13 31-1294	EA	24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Control Module (Notifier ACM-24AT).....	1,052.10	38.46
28 46	13 31-1295	EA	24 Alarm LEDs, 24 Trouble LEDs, 24 Control Switches, Annunciator Expander Module (Notifier AEM-24AT).....	808.64	38.46
28 46	13 31-1296	EA	32 Alarm LEDs And 1 Trouble LED, Control Module (Notifier ACM-32A).....	808.64	38.46
28 46	13 31-1297	EA	32 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-32A).....	726.12	38.46
28 46	13 31-1298	EA	48 Alarm And 1 Trouble LED Annunciator Control Module (Notifier ACM-48A).....	808.64	38.46
28 46	13 31-1299	EA	48 Alarm And 1 Trouble LED, Annunciator Expander Module (Notifier AEM-48A).....	726.12	38.46
28 46	13 31-1300		<b>Graphic Annunciator - Lamp Driver Modules</b> (28 46 13 31-0973)		
28 46	13 31-1301	EA	Single Annunciator Flush Mounted Backbox (Notifier ABF-1B).....	354.63	76.91
28 46	13 31-1302	EA	Single Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-1DB).....	383.52	76.91





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1303 EA Two Annunciator Flush Mounted Backbox (Notifier ABF-2B) .....	443.99	96.14
28 46 13 31-1304 EA Two Annunciator Flush Mounted Backbox With Glass Door And Key Lock (Notifier ABF-2DB).....	481.12	96.14
28 46 13 31-1305 EA Four Annunciator Flush Mounted Backbox (Notifier ABF-4B).....	767.10	134.59
28 46 13 31-1306 EA Annunciator Blank Plate Used With ACM-32A/ACM-16AT (Notifier ABM-1).....	136.24	23.07
28 46 13 31-1307 EA Single Annunciator Surface Mounted Backbox (Notifier ABS-1B) .....	237.03	76.91
28 46 13 31-1308 EA Single Annunciator Surface Mounted Backbox With Trim (Notifier ABS-1TB) .....	213.57	19.22
28 46 13 31-1309 EA Two Annunciator Surface Mounted Backbox (Notifier ABS-2B) .....	289.99	76.91
28 46 13 31-1310 EA 12" x 12" x 3-3/4" Surface Or Semi-Flush Mount Backbox (Notifier ABS-2D).....	500.38	96.14
28 46 13 31-1311 EA Red, Surface (Or Semi-Flush) Mounted Backbox For ACS Annunciators, SCS Series, NCA And NCA-2 (Notifier ABS-2DR).....	398.31	19.22
28 46 13 31-1312 EA Black, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4D).....	804.24	134.59
28 46 13 31-1313 EA Red, 12" x 20" x 3-1/2" Surface Or Semi-Flush Backbox (Notifier ABS-4DR) .....	671.07	23.07
28 46 13 31-1314 EA Black, 9-15/16" x 4-5/8" x 2-1/2" Surface Backbox (Notifier ABS-8RB) .....	259.13	30.76
28 46 13 31-1315 EA Annunciator Key Switch (Notifier AKS-1B) .....	124.58	11.54
28 46 13 31-1316 EA Chassis Used To Mount NCA-2 In ABS-2D (Notifier CHS-2D).....	135.37	38.46
28 46 13 31-1317 EA 32 Alarm Lamp Driver Annunciator Control Module (Notifier LDM-32) .....	726.12	38.46
28 46 13 31-1318 EA 24" Lamp Driver Annunciator Cable (Notifier LDM-CBL24) .....	214.83	7.69
28 46 13 31-1319 EA 48" Lamp Driver Annunciator Cable (Notifier LDM-CBL48).....	268.41	7.69
28 46 13 31-1320 EA 32 Alarm Lamp Driver Annunciator Expander Module (Notifier LDM-E32).....	600.95	38.46
28 46 13 31-1321 EA Lamp Driver Module (Notifier LDM-R32) .....	1,047.33	38.46
28 46 13 31-1322 EA Eight Switch Smoke Control Lamp Driver Master Module (Notifier SCS-8L).....	972.32	38.46
28 46 13 31-1323 EA 48" Cable Assembly For Smoke Control Lamp Driver (Notifier SCS8L-CBL48).....	275.56	7.69
28 46 13 31-1324 EA Black, Trim Ring For ABS-2D Cabinet (Notifier TR-ABS2D) .....	252.74	23.07
28 46 13 31-1325 EA Black, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4D) .....	157.00	23.07
28 46 13 31-1326 EA Red, Trim Ring For ABS-4D Cabinet (Notifier TR-ABS4DR).....	157.00	23.07
28 46 13 31-1327 EA Graphic Annunciator Dress Plate (Notifier DP-GDIS1).....	242.02	23.07
28 46 13 31-1328 EA Graphic Annunciator Dress Plate (Notifier DP-GDIS2).....	242.02	23.07
28 46 13 31-1329 EA Input/Output Module For Driving Graphic Annunciators Or Relays (Notifier N-ANN-RLED).....	585.20	38.46
<b>28 46 13 31-1330 Network Gateways</b> <small>(28 46 13 31-0973)</small>		
28 46 13 31-1331 EA Common Alerting Protocol Gateway (Notifier CAP-GW) .....	3,477.95	38.46
28 46 13 31-1332 EA Fiber-Optic Cable Interface (Multi-Mode), High-Speed Network Communications Module (Notifier HS-NCM-MF) .....	2,591.49	38.46
28 46 13 31-1333 EA Fiber-Optic Cable Interface (Multi-Mode Fiber To Single-Mode Fiber), High-Speed Network Communications Module (Notifier HS-NCM-MFSF).....	2,918.42	38.46
28 46 13 31-1334 EA Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS-NCM-SF) .....	3,214.64	38.46
28 46 13 31-1335 EA Twisted-Pair Wire Interface, High-Speed Network Communications Module (Notifier HS-NCM-W).....	2,614.53	38.46
28 46 13 31-1336 EA Wire And Fiber-Optic Cable Interface, High-Speed Network Communications Module (Multi-Mode) (Notifier HS- NCM-WMF) .....	2,544.31	38.46
28 46 13 31-1337 EA Wire And Fiber-Optic Cable Interface (Single-Mode), High-Speed Network Communications Module (Notifier HS- NCM-WSF).....	2,863.57	38.46
28 46 13 31-1338 EA Modbus Gateway (Notifier MODBUS-GW).....	2,852.60	38.46
28 46 13 31-1339 EA 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW) .....	3,305.09	25.38
28 46 13 31-1340 EA Capacitive Touch-Screen, 22" Widescreen HD LED Color Monitor With Speakers (Notifier MON-22LCDW-TS) .....	4,906.87	25.38
28 46 13 31-1341 EA 1920x1080P Wide Screen (Notifier MON-42LCDW).....	15,515.93	25.38
28 46 13 31-1342 EA Single Monitor, Wall Mounted, Horizontal, Tilt, Bracket (Notifier MON-42HORIZ-SD).....	822.21	57.68
28 46 13 31-1343 EA Single Monitor, Vertical Mounted, Bracket (Notifier MON-42VERT-SD).....	1,504.97	57.68
28 46 13 31-1344 EA Dual Monitors, Vertical Wall Mounted, Fixed Position, Bracket (Notifier MON-42VERT-DD) .....	2,195.75	57.68
28 46 13 31-1345 EA Mass Notification Voice Paging (Notifier NOTIFY-IP).....	1,298.98	
28 46 13 31-1346 EA Embedded NFN Gateway (Notifier NFN-GW-EM).....	3,020.35	38.46
28 46 13 31-1347 EA NFN Gateway PC Card With Fiber (Notifier NFN-GW-PC-F) .....	3,020.35	38.46
28 46 13 31-1348 EA High Speed NFN Gateway PC Card For Multimode Fiber (Included With ONYXworks-HNMF) (Notifier NFN-GW- PC-HNMF).....	3,949.71	38.46
28 46 13 31-1349 EA High Speed NFN Gateway PC Card For Single Mode Fiber (Included With ONYXworks-HNSF) (Notifier NFN-GW- PC-HNSF).....	4,597.00	38.46
28 46 13 31-1350 EA High Speed NFN Gateway PC Card For Wire (Included With ONYXworks-HNW) (Notifier NFN-GW-PC-HNW).....	3,949.71	38.46
28 46 13 31-1351 EA NFN Gateway PC Card With Wire (Notifier NFN-GW-PC-W).....	3,020.35	38.46
28 46 13 31-1352 EA Alpha-Numeric Pager Option For ONYXworks (Notifier ONYX-PAGER).....	1,686.80	
28 46 13 31-1353 EA ONYXWorks Workstation (Notifier ONYXWORKS-WS) .....	29,824.88	922.93
28 46 13 31-1354 EA Fiber Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NW).....	6,733.57	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 13 31-1355 EA Wired Network Graphical User Interface (Notifier ONYXWorks-Lite OW-LITE-NF).....	6,733.57	
Note: Includes PC slot network fiber card, workstation software and security key with a four node license. Excludes PC workstation.		
28 46 13 31-1356 EA Fiber Optics, Standard Network Repeater Board (Notifier RPT-F) .....	1,217.90	38.46
28 46 13 31-1357 EA Wire, Standard Network Repeater Board (Notifier RPT-W) .....	995.19	38.46
28 46 13 31-1358 EA Wire To Fiber Optics, Standard Network Repeater Board (Notifier RPT-WF) .....	1,180.60	38.46
28 46 13 31-1359 EA Signaling Line Circuit Integration Module (Notifier SLC-IM).....	1,315.55	38.46
28 46 13 31-1360 EA VESDA Gateway That Provides A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VESDA-HLI-GW).....	2,720.95	38.46
28 46 13 31-1361 EA Vesda™ High Level Interface Card Used With SLC-IM And Vesda-HLI-GW To Provide A Communication Link Between The Noti-Fire-Net™ Network And Vesda™ Detectors On The Vesdanet™ (Notifier VHX-1420-HFS).....	2,904.31	38.46
28 46 13 31-1362 EA Windows Hard Drive Upgrade (Notifier WIN7-UG-US-3).....	3,212.96	
28 46 13 31-1363 EA Intuitive Color 10" Touch Screen Providing Color Coded Information Of Detailed System Status (Notifier NCD) .....	1,687.95	25.38
28 46 13 31-1364 EA SWIFT Wireless Gateway With Flashscan (Notifier FWSG).....	506.20	38.46
<b>28 46 13 31-1365 NOTI-FIRE-NET Network Components</b> <small>(28 46 13 31-0973)</small>		
28 46 13 31-1366 EA Interface Between NOTI-FIRE-NET 50 And BACnet (Notifier BACNET-GW-3) .....	3,020.35	38.46
28 46 13 31-1367 EA Fiber Optic Network Communications Module (Notifier NCM-F) .....	1,351.94	38.46
28 46 13 31-1368 EA NOTI-FIRE-NET Web Server (Notifier NWS).....	3,020.35	38.46

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1369 EA Wired Network Communications Module (Notifier NCM-W).....	1,288.67	38.46
28 46 13 31-1370 EA Fiber Optic Converter Module Mounting Kit (Notifier SMF-Kit) .....	142.54	19.22
<b>28 46 13 31-1371 FireWarden Addressable Fire Panels (28 46 13 31-0973)</b>		
28 46 13 31-1372 EA 50 Point, Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW-50).....	2,851.76	769.11
28 46 13 31-1373 EA Black, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100) .....	3,340.04	769.11
28 46 13 31-1374 EA Black, One DC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100C).....	3,409.88	384.55
28 46 13 31-1375 EA Black, One SLC Loop, 240 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100E).....	3,409.88	384.55
28 46 13 31-1376 EA Red, One SLC Loop, 120 Volt AC, 198 Point Addressable Fire Alarm Control Panel With Digital Alarm Communicator/Transmitter (Notifier NFW2-100R).....	3,396.71	384.55
28 46 13 31-1377 EA Black, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, Built In Annunciator, 50 Point Addressable Fire Alarm Control Panel (Notifier NFW-50C).....	3,846.53	769.11
28 46 13 31-1378 EA Red, Built In Digital Alarm Communicator/Transmitter (DACT) With Modem For Remote Upload/Download, 50 Point Addressable Fire Alarm Control Panel (NFW-50R) .....	2,863.52	769.11
<b>28 46 13 31-1379 FireWarden Accessories (28 46 13 31-0973)</b>		
28 46 13 31-1380 EA Intelligent Multicriteria Photo/Thermal Detector With Base (Notifier NP-A100).....	255.86	57.68
28 46 13 31-1381 EA Intelligent Addressable Photo/Thermal Detector With Base (Notifier NP-100T) .....	243.96	57.68
<b>28 46 13 31-1382 FireWarden Devices (28 46 13 31-0973)</b>		
28 46 13 31-1383 EA SLC Loop Powered Fault Isolator Module (Notifier N100-ISO).....	186.95	38.46
28 46 13 31-1384 EA Intelligent Addressable Control Module (Notifier NC-100) .....	219.96	38.46
28 46 13 31-1385 EA Intelligent Addressable Relay Module (Notifier NC-100R).....	211.70	38.46
28 46 13 31-1386 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector (Notifier ND-100).....	499.78	57.68
28 46 13 31-1387 EA Intelligent Addressable Low Flow Duct Photoelectric Smoke Detector With DPDT Relay (Notifier ND-100R) .....	600.50	57.68
28 46 13 31-1388 EA Two Zone Intelligent Addressable, Two Wire Detector Monitor Module (Notifier NDM-100).....	211.70	38.46
28 46 13 31-1389 EA Intelligent Addressable Thermal Detector With Base (Notifier NH-100).....	222.64	57.68
28 46 13 31-1390 EA Intelligent Addressable High Temperature Thermal Detector With Base (Notifier NH-100H) .....	222.64	57.68
28 46 13 31-1391 EA Intelligent Addressable Rate-Of-Rise Thermal Detector With Base (Notifier NH-100R) .....	222.64	57.68
28 46 13 31-1392 EA Intelligent Addressable Ionization Smoke Detector With Base (Notifier NI-100).....	294.17	57.68
28 46 13 31-1393 EA Intelligent Addressable Monitor Module (Notifier NMM-100).....	184.19	38.46
28 46 13 31-1394 EA Intelligent Addressable Mini Monitor Module (Notifier NMM-100P).....	168.38	38.46
28 46 13 31-1395 EA Intelligent Addressable Manual Pull Station (Notifier NOT-BG12LX).....	245.40	38.46
28 46 13 31-1396 EA Intelligent Addressable Photoelectric Smoke Detector With Base (Notifier NP-100) .....	232.27	57.68
28 46 13 31-1397 EA Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100) .....	273.60	38.46
28 46 13 31-1398 EA Six Zone Intelligent Addressable 2-Wire Detector Monitor Module (Notifier NZM-100-6) .....	940.69	38.46
<b>28 46 13 31-1399 SFP-2402 And SFP-2404 2 And 4-Zone Control Panels And Accessories (28 46 13 31-0973)</b>		
28 46 13 31-1400 EA 120 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402).....	1,918.30	615.28
28 46 13 31-1401 EA 120 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404) .....	2,095.73	615.28
28 46 13 31-1402 EA 240 Volt AC, Two Zone Conventional Fire Alarm Control Panel (Notifier SFP-2402E).....	1,442.74	192.28
28 46 13 31-1403 EA 240 Volt AC, Four Zone Conventional Fire Alarm Control Panel (Notifier SFP-2404E).....	1,617.18	192.28
28 46 13 31-1404 EA Class A Converter Module (Notifier CAC-4).....	473.41	38.46
28 46 13 31-1405 EA Internal Dress Plate, Required For FM And ULC (Notifier DP-4X).....	175.04	23.07
28 46 13 31-1406 EA Remote Zone Annunciator (Notifier RZA-4X).....	261.82	57.68
28 46 13 31-1407 EA Red, Dress Panel (Notifier DP-51050).....	209.87	23.07
28 46 13 31-1408 EA Black, Dress Panel (Notifier DP-51050B) .....	212.25	23.07
<b>28 46 13 31-1409 SFP-5UD 5 Zone Control Panels And Accessories (28 46 13 31-0973)</b>		
28 46 13 31-1410 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFP-5UD).....	2,906.77	769.11
28 46 13 31-1411 EA 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDC) .....	4,749.17	576.83
28 46 13 31-1412 EA 240 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDE) .....	3,136.66	384.55
28 46 13 31-1413 EA Red, 120 Volt AC, Five Zone Conventional Fire Alarm Control Panel (Notifier SFB-5UDR).....	3,136.66	384.55
28 46 13 31-1414 EA Class A Converter Module (Notifier N-CAC-5X) .....	490.08	38.46
28 46 13 31-1415 EA Red, Trim Ring For NFW2-100, NFW-50, SFB-5UD, SFB-10UD, RP-2001, RP-2002 Cabinet (Notifier TR-CE) .....	189.03	23.07
28 46 13 31-1416 EA Five Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-5UDC) .....	4,327.10	576.83
Note: Includes internal dress panel with built-in annunciator module		
28 46 13 31-1417 EA 240 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDE).....	2,867.91	384.55
28 46 13 31-1418 EA Red, 120 Volt AC, Five Zone Conventional Fire Control Panel With DACT And 3 Amperes Power Supply (Notifier SFP-5UDR) .....	2,844.87	384.55
<b>28 46 13 31-1419 SFP-10UD 10 Zone Control Panels And Accessories (28 46 13 31-0973)</b>		
28 46 13 31-1420 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDC).....	5,831.54	769.11
28 46 13 31-1421 EA 240 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDE) .....	4,362.01	576.83
28 46 13 31-1422 EA 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFP-10UD) .....	3,291.90	769.11



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1423	EA	Red, 120 Volt AC, 10 Zone Conventional Fire Alarm Control Panel With Built-In Digital Alarm Communicator Transmitter (Notifier SFB-10UDR).....	5,131.12	769.11
28 46 13 31-1424	EA	Four Channel, Dual Line, Stand Alone Fire Alarm Communicator (Fire-Lite 411UDAC).....	819.42	115.36
28 46 13 31-1425	EA	10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply, ULC/UL Listed (Notifier SFP-10UDC).....	5,360.61	769.11
Note: Includes internal dress panel with built-in annunciator module				
28 46 13 31-1426	EA	240 Volt AC, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDE).....	4,001.26	576.83
28 46 13 31-1427	EA	Red, 10 Zone Conventional Fire Control Panel With DACT And 7 Amperes Power Supply (Notifier SFP-10UDR).....	4,742.94	769.11
<b>28 46 13 31-1428</b>	<b>Smoke Detectors</b>	<small>(28 46 13 31-0973)</small>		
28 46 13 31-1429	EA	Low Profile Intelligent Addressable Ionization Smoke Detector (Notifier FSI-851).....	313.42	57.68
28 46 13 31-1430	EA	Intelligent Addressable Laser Smoke Detector (Notifier FSL-751).....	514.24	57.68
28 46 13 31-1431	EA	Intelligent Addressable Laser Duct Smoke Detector (Notifier FSL-751D).....	1,458.30	57.68
28 46 13 31-1432	EA	Remote Test Capable Intelligent Addressable Photo Detector (Notifier NP-100R).....	230.86	57.68
Note: For use with DNR(W) duct detector housing				
28 46 13 31-1433	EA	Filters For Harsh Detector (Notifier RF-FTX).....	28.29	
28 46 13 31-1434	EA	Key Activated Remote Test Station For Duct Smoke Detector (Notifier RTS151KEY).....	190.73	38.46
28 46 13 31-1435	EA	Addressable Beam Detector With Reflector, UL Listed (Notifier FS-OSI-RI).....	1,921.20	57.68
28 46 13 31-1436	EA	Intelligent Addressable Photo Detector With Flashscan, White (Notifier FSP-951).....	239.49	57.68
28 46 13 31-1437	EA	Intelligent Addressable Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951-IV).....	259.14	57.68
28 46 13 31-1438	EA	Remote Test Capable Intelligent Photo Detector With Flashscan, White (Notifier FSP-951R).....	249.31	57.68
28 46 13 31-1439	EA	Remote Test Capable Intelligent Photo Detector With Flashscan And Clip, Ivory (Notifier FSP-951R-IV).....	267.17	57.68
28 46 13 31-1440	EA	Intelligent Addressable Photo/Thermal Detector With Flashscan, White (Notifier FSP-951T).....	250.50	57.68
28 46 13 31-1441	EA	Intelligent Addressable Photo/Thermal Detector With Flashscan, Ivory (Notifier FSP-951T-IV).....	268.36	57.68
28 46 13 31-1442	EA	Intelligent Addressable 135 Degree Thermal Detector With Flashscan, White (Notifier FST-951).....	208.23	57.68
28 46 13 31-1443	EA	Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan (Notifier FST-951H).....	208.23	57.68
28 46 13 31-1444	EA	Intelligent Addressable High Temperature 190 Degree Heat Detector With Flashscan And Clip, Ivory (Notifier FST-951H-IV).....	224.90	57.68
28 46 13 31-1445	EA	Intelligent Addressable 135 Degree Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951-IV).....	224.90	57.68
28 46 13 31-1446	EA	Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan, White (Notifier FST-951R).....	208.23	57.68
28 46 13 31-1447	EA	Intelligent Addressable Rate-of-Rise Thermal Detector With Flashscan And Clip, Ivory (Notifier FST-951R-IV).....	224.90	57.68
28 46 13 31-1448	EA	Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, White (Notifier FSV-951R).....	517.82	57.68
28 46 13 31-1449	EA	Low Profile Intelligent Addressable High Sensitivity Detector With Flashscan, Ivory (Notifier FSV-951R-IV).....	553.54	57.68
28 46 13 31-1450	EA	Wireless Photo-Heat Detector, Acclimate, With Flashscan (Notifier FWD-200ACCLIMATE).....	516.63	57.68
Note: Requires B210W base, ordered separately				
28 46 13 31-1451	EA	Wireless Photo Detector With Flashscan (Notifier FWD-200P).....	477.33	57.68
Note: Requires B210W base, ordered separately				
28 46 13 31-1452	EA	Wireless Fixed Temp Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200FIX135).....	435.66	57.68
Note: Requires B210W base, ordered separately				
28 46 13 31-1453	EA	Wireless ROR Heat Detector, 135 Degree, With Flashscan (Notifier FWH-200ROR135).....	435.66	57.68
Note: Requires B210W base, ordered separately				
28 46 13 31-1454	EA	Intelligent Addressable Carbon Monoxide Detector With Flashscan (Notifier FPC-951).....	323.73	57.68
28 46 13 31-1455	EA	Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-250).....	2,942.61	57.68
Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.				
28 46 13 31-1456	EA	Built In Circular Display, 3 Alarm Levels, Smoke Detector (Notifier VLF-500).....	3,600.99	57.68
Note: Use for areas up to 2,500 square feet. Adjustable sensitivity range is 0.008 - 6% ro 6.4 /Ft. Obs.				
<b>28 46 13 31-1457</b>	<b>Pull Stations</b>	<small>(28 46 13 31-0973)</small>		
28 46 13 31-1458	EA	Trim Ring For NBG12 Series Pull Station (Notifier BG12TR).....	40.16	7.69
28 46 13 31-1459	EA	One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2).....	96.29	19.22
28 46 13 31-1460	EA	Red, One End Tapped For 1/2" Conduit, Aluminum, Surface Mounted Backbox (Notifier BG-2R).....	87.99	19.22
28 46 13 31-1461	EA	Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1).....	132.33	38.46
28 46 13 31-1462	EA	DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1F).....	144.38	38.46
28 46 13 31-1463	EA	Terminal Switch, DPDT Switch, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1FSTS).....	191.77	38.46
28 46 13 31-1464	EA	Red Body, Silver Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1R).....	132.33	38.46
28 46 13 31-1465	EA	Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TS).....	150.00	38.46
28 46 13 31-1466	EA	Standard Local Style Red Letters, Spring Retainer, Aluminum Single Action Pull Station With Terminal Strip (Notifier BNG-1TSL).....	150.00	38.46
28 46 13 31-1467	EA	Terminal Strip, Red Body, Red Letters, Spring Retainer, Aluminum Single Action Pull Station (Notifier BNG-1TSTR).....	150.00	38.46
28 46 13 31-1468	EA	Red Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1).....	142.78	38.46
28 46 13 31-1469	EA	Red Body, Silver Letters, Breakglass, Aluminum Single Action Pull Station (Notifier BRG-1R).....	153.22	38.46
28 46 13 31-1470	EA	Hazardous, Non-Hazardous, Weatherproof, Harsh Locations Fire Alarm Pull Station (Notifier HAZ-WP-PULL).....	987.53	46.15
28 46 13 31-1471	EA	Red, Single Action Fire Alarm Pull Station (Notifier NBG-12S).....	121.09	38.46
28 46 13 31-1472	EA	Red, Dual Action Fire Alarm Pull Station (Notifier NBG-12).....	126.21	38.46
28 46 13 31-1473	EA	Red, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12L).....	133.65	38.46
28 46 13 31-1474	EA	Red, Outdoor, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LOB).....	291.73	46.15
28 46 13 31-1475	EA	Red, Presignal, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LPS).....	182.58	38.46
28 46 13 31-1476	EA	Red, Agent Releasing, Key Lock, Dual Action Fire Alarm Pull Station (Notifier NBG-12LR).....	155.50	38.46
28 46 13 31-1477	EA	Addressable Manual Dual Action Fire Alarm Pull Station (Notifier NBG-12LX).....	246.78	38.46
28 46 13 31-1478	EA	Pull Station Trim Plate For New York City, For Use With All NBG Series Pull Stations (Notifier NY-PLATE).....	68.40	7.69
28 46 13 31-1479	EA	Dual Action, Wireless Pull Station (Notifier NBG-12WL).....	503.08	46.15
<b>28 46 13 31-1480</b>	<b>Rate Compensation Heat Detectors</b>	<small>(28 46 13 31-0973)</small>		
28 46 13 31-1481	EA	135 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-135).....	236.40	57.68
28 46 13 31-1482	EA	194 Degree F Explosion Proof Rate Compensation Heat Detectors (Edwards Signaling 302-EPM-194).....	236.40	57.68

**28 Electronic Safety and Security**

**28 40 Life Safety**

**28 46 Fire Detection and Alarm**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46 13 31-1483</b>			<b>FM Series Door Releases</b> (28 46 13 31-0973)		
	EA		1/2" Door Holder Spacer (Notifier FM900-50).....	39.58	11.54
	EA		3/4" Door Holder Spacer (Notifier FM900-75).....	39.58	11.54
	EA		1" Door Holder Spacer (Notifier FM900-100).....	39.58	11.54
	EA		Door Holder Extension Kit (Notifier FM900).....	41.64	11.54
	EA		90 Degree Door Holder Extension Kit (Notifier FM900-Z).....	42.33	11.54
	EA		12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mounted, Door Holder (Notifier FM980).....	281.79	57.68
	EA		12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mounted, Door Holder (Notifier FM996).....	247.40	57.68
	EA		12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mounted, Concealed Wiring, Door Holder (Notifier FM998).....	247.40	57.68
<b>28 46 13 31-1492</b>			<b>Multicriteria Fire Detector</b> (28 46 13 31-0973)		
	EA		Intelligent Addressable Combination Multi-Criteria Fire/Carbon Monoxide Detector With Flashscan (Notifier FCO-851).....	383.27	57.68
	EA		Intelligent Addressable Multicriteria Fire Detector (Notifier FSC-851)..... Note: Detects fire, thermal, photo, CO and IR, with Flashscan.	382.08	57.68
	EA		Multi-Criteria Photo/Temp/Infrared Detector, White (Notifier FPTI-951).....	255.86	57.68
	EA		Multi-Criteria Photo/Temp/Infrared Detector, Ivory (Notifier FPTI-951-IV).....	264.20	57.68
	EA		Intelligent Addressable Combination Multi-Criteria Photoelectric And Carbon Monoxide Detector With Flashscan (Notifier FSCO-951).....	383.27	57.68
<b>28 46 13 31-1498</b>			<b>Modules</b> (28 46 13 31-0973)		
	EA		Intelligent Addressable Dual Monitor/Dual Relay Module (Notifier FDRM-1).....	447.22	38.46
	EA		Addressable Firephone Control Module (Notifier FTM-1).....	281.71	38.46
	EA		Wireless Monitor Module With Flashscan (Notifier FW-MM).....	432.93	38.46
	EA		Wireless Relay Module With Flashscan (Notifier FW-RM).....	498.42	38.46
	EA		Wireless Sync Module (Notifier W-SYNC).....	475.16	38.46
<b>28 46 13 31-1504</b>			<b>DH Series Door Releases</b> (28 46 13 31-0973)		
	EA		Semi-Flush, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120FPC).....	243.66	57.68
	EA		Semi-Flush, Plated Brass, Electromagnetic Door Holder (Notifier DH24120FB).....	258.24	57.68
	EA		Semi-Flush, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120FD).....	271.94	57.68
	EA		Surface Mounted, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120SPC).....	268.36	57.68
	EA		Surface Mounted, Plated Brass, Electromagnetic Door Holder (Notifier DH24120SB).....	280.27	57.68
	EA		Surface Mounted, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120SPD).....	290.39	57.68
	EA		Recessed, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120WPC).....	243.66	57.68
	EA		Recessed, Plated Brass, Electromagnetic Door Holder (Notifier DH24120WB).....	256.46	57.68
	EA		Recessed, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120WD).....	271.94	57.68
	EA		Floor Mounted, Single Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC1).....	304.68	57.68
	EA		Floor Mounted, Single Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB1).....	323.73	57.68
	EA		Floor Mounted, Single Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD1).....	345.76	57.68
	EA		Floor Mounted, Double Door, Powder Coated Chrome, Electromagnetic Door Holder (Notifier DH24120GPC2).....	351.12	57.68
	EA		Floor Mounted, Double Door, Plated Brass, Electromagnetic Door Holder (Notifier DH24120GB2).....	373.74	57.68
	EA		Floor Mounted, Double Door, Powder Coated Dark Bronze, Electromagnetic Door Holder (Notifier DH24120GPD2).....	401.13	57.68
	EA		0.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE.5PC).....	28.43	7.69
	EA		0.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE.5B).....	28.43	7.69
	EA		0.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE.5D).....	30.87	7.69
	EA		1" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1PC).....	28.43	7.69
	EA		1" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1B).....	28.43	7.69
	EA		1" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1D).....	30.87	7.69
	EA		1.5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5PC).....	29.68	7.69
	EA		1.5" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE1.5APC).....	29.68	7.69
	EA		1.5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE1.5B).....	30.87	7.69
	EA		1.5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE1.5D).....	32.24	7.69
	EA		2" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2PC).....	32.24	7.69
	EA		2" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE2APC).....	32.24	7.69
	EA		2" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE2B).....	33.49	7.69
	EA		2" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE2D).....	33.49	7.69
	EA		3" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE3PC).....	33.49	7.69
	EA		3" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE3B).....	34.86	7.69
	EA		3" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE3D).....	34.86	7.69
	EA		4" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4PC).....	36.11	7.69
	EA		4" Adjustable Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE4APC).....	36.11	7.69
	EA		4" Adjustable Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE4AB).....	37.48	7.69
	EA		4" Adjustable Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE4AD).....	41.35	7.69
	EA		5" Extension Rod, Powder Coated Chrome, Electromagnetic Door Holder Extension (Notifier DHE5PC).....	40.04	7.69
	EA		5" Extension Rod, Plated Brass, Electromagnetic Door Holder Extension (Notifier DHE5B).....	38.73	7.69
	EA		5" Extension Rod, Powder Coated Dark Bronze, Electromagnetic Door Holder Extension (Notifier DHE5D).....	41.35	7.69
	EA		Catch Plate, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHCP).....	39.92	11.54
	EA		Catch Plate, Plated Brass For Electromagnetic Door Holder (Notifier DHCPB).....	41.17	11.54
	EA		Catch Plate, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHCPD).....	45.16	11.54
	EA		Swivel Base, Powder Coated Chrome, For Electromagnetic Door Holder (Notifier DHSBPC).....	71.06	11.54
	EA		Swivel Base, Plated Brass, For Electromagnetic Door Holder (Notifier DHSBB).....	74.87	11.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1549 EA Swivel Base, Powder Coated Dark Bronze, For Electromagnetic Door Holder (Notifier DHSBD).....	78.68	11.54
28 46 13 31-1550 EA Surface Mounted Backbox, Powder Coated Chrome For Electromagnetic Door Holder (Notifier DHBBPC).....	68.23	19.22
28 46 13 31-1551 EA Surface Mounted Backbox, Plated Brass For Electromagnetic Door Holder (Notifier DHBBB).....	70.85	19.22
28 46 13 31-1552 EA Surface Mounted Backbox, Powder Coated Dark Bronze For Electromagnetic Door Holder (Notifier DHBBB).....	76.09	19.22
28 46 13 31-1553 EA Swivel Base Mounting Drill Fixture For Electromagnetic Door Holder (Notifier DHDF).....	367.93	
<b>28 46 13 31-1554 First Command (28 46 13 31-0973)</b>		
28 46 13 31-1555 EA Black, 120 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100).....	7,433.09	961.39
28 46 13 31-1556 EA Black, 220-240 Volt AC, 50 Watt, 25 VRMS, One Class A/B Speaker Circuit, Primary Operating Console (Notifier NFC-50/100E).....	7,498.92	961.39
28 46 13 31-1557 EA Black, 120 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DA).....	1,908.33	76.91
28 46 13 31-1558 EA Black, 220-240 Volt AC, 50 Watt, 25 VRMS Or 70 VRMS), Four Class A/B Speaker Circuits, Distributed (Remote) Audio Amplifier (Notifier NFC-50DAE).....	1,957.70	76.91
28 46 13 31-1559 EA Black, 120 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DA).....	3,445.38	76.91
28 46 13 31-1560 EA Black, 220-240 Volt AC, 125 Watt, 25 VRMS, Four Class A/B Speaker Outputs, Distributed Audio Amplifier (Notifier NFC-125DAE).....	3,555.10	76.91
28 46 13 31-1561 EA 50 Watt, 25 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-25 Volt).....	920.31	38.46
28 46 13 31-1562 EA 50 Watt, 70 VRMS Audio Amplifier Module For A Second Speaker Circuit Or Backup (Notifier NFC-BDA-70 Volt).....	920.31	38.46
28 46 13 31-1563 EA Circuit Expander Module For NFC-50/125DA(E), Four Additional Class A/B Speaker Circuits (Notifier NFC-CE4).....	557.95	38.46
28 46 13 31-1564 EA Circuit Expander Module For NFC-50/100(E), Six Additional Class A/B Speaker Circuits (Notifier NFC-CE6).....	723.11	38.46
28 46 13 31-1565 EA Standalone Firefighter Telephone System (Notifier NFC-FFT)..... Note: Includes onboard SLC supports up to 24 monitor modules, built-in handset, black.	2,562.21	76.91
28 46 13 31-1566 EA Local Operator Console (Notifier NFC-LOC)..... Note: Includes built-in microphone, message and zone control switches, black.	2,509.55	76.91
28 46 13 31-1567 EA Black, Remote Microphone (Notifier NFC-RM).....	717.54	
28 46 13 31-1568 EA Remote Page Unit (Notifier NFC-RPU)..... Note: Includes built-in microphone, message control switches, black.	2,131.05	76.91
28 46 13 31-1569 EA 70 V Conversion Module For NFC-50/100 (Notifier NFC-XRM-70V).....	425.79	38.46
28 46 13 31-1570 EA Firefighters Phone Jack (Notifier N-FPJ).....	192.74	11.54
28 46 13 31-1571 EA Thumbatch Option For NFC-LOC And NFC-RPU (Notifier THUMBLTCH).....	55.93	11.54
28 46 13 31-1572 EA Black, Trim Ring For NFC-RPU Cabinet (Notifier TR-6-B).....	176.23	23.07
<b>28 46 13 31-1573 LED Displays (28 46 13 31-0973)</b>		
28 46 13 31-1574 EA 2.1" x 27" Programmable LED Indoor Display (Notifier ALPHA-215).....	1,970.54	46.15
28 46 13 31-1575 EA Instant And Integrated Emergency Notification System (Notifier LEDSIGN-GW).....	2,768.18	61.53
28 46 13 31-1576 EA 4" x 45-1/2" Programmable LED Array, Mass Notification Device (Notifier MEGADOT).....	2,800.00	61.53
28 46 13 31-1577 EA 8 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL8).....	2,690.29	61.53
28 46 13 31-1578 EA 16 Messages, FACP Interface For LED Arrays (Notifier MNS-CONTROL16).....	3,754.48	61.53
28 46 13 31-1579 EA LED Sign, Instant And Integrated Emergency Notification System (Notifier OAX2-24V).....	2,854.85	61.53
<b>28 46 13 31-1580 Control Relays (28 46 13 31-0973)</b>		
28 46 13 31-1581 EA Single SPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-101/CR).....	89.30	19.22
28 46 13 31-1582 EA Single SPDT Relay With LED With Track Mounting Hardware (Notifier MR-101/T).....	69.18	19.22
28 46 13 31-1583 EA Four Position SPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-104/CR).....	240.63	38.46
28 46 13 31-1584 EA Four Position SPDT Relay With LED With Track Mounting Hardware (Notifier MR-104/T).....	134.01	19.22
28 46 13 31-1585 EA Four Position DSPDT Relay With LED With Track Mounting Hardware (Notifier MR-204/T).....	158.72	19.22
28 46 13 31-1586 EA 24 Volt DC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-13C).....	247.18	38.46
28 46 13 31-1587 EA 120 Volt AC, 30 Amperes Contacts, DPDT Relay In Steel Enclosure (Notifier MR-199X-14C).....	247.18	38.46
28 46 13 31-1588 EA Single DPDT Relay With LED With Metal Backbox And Red Plastic Cover (Notifier MR-201/CR).....	131.68	38.46
28 46 13 31-1589 EA Single DPDT Relay With LED With Track Mounting Hardware (Notifier MR-201/T).....	74.42	19.22
28 46 13 31-1590 EA Four Position DPDT Relay With LEDs With Metal Backbox And Red Plastic Cover (Notifier MR-204/CR).....	262.06	38.46
28 46 13 31-1591 EA 24 Volt DC / 24 Volt AC / 115 Volt AC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-1).....	98.58	38.46
28 46 13 31-1592 EA 12/24 Volt DC, 7 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-2).....	98.58	38.46
28 46 13 31-1593 EA 9 To 40 Volt DC, 10 Amperes, Form C, Multi-Voltage Relay Module (Notifier PAM-4).....	98.58	38.46
<b>28 46 13 31-1594 Gamewell-FCI Fire Control Instruments (28 46 13 31-0973)</b>		
<b>28 46 13 31-1595 7100 Series And NetSOLO® (28 46 13 31-1594)</b>		
<b>28 46 13 31-1596 7100 Compact Analog Addressable Fire Alarm Control Panels (28 46 13 31-1595)</b>		
28 46 13 31-1597 EA Enclosure With Metal Door (Gamewell-FCI 7100-ENCL-M).....	1,321.15	461.46
28 46 13 31-1598 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2).....	5,517.98	769.11
28 46 13 31-1599 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC) (Gamewell-FCI BK-7100-2D).....	5,981.48	769.11
28 46 13 31-1600 EA Basic Systems Kit, 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2-E).....	5,517.98	769.11
28 46 13 31-1601 EA Basic Systems Kit, With Digital Alarm Communicator Transmitter (DACT), 2 Signaling Line Circuits (SLC), 240 Volt AC (Gamewell-FCI BK-7100-2D-E).....	5,981.48	769.11
28 46 13 31-1602 EA Removal And Replacement Of Board For 7100-1D (Gamewell-FCI BSM-7100-1).....	1,581.86	
28 46 13 31-1603 EA Removal And Replacement Of Board For 7100-2 (Gamewell-FCI BSM-7100-1D).....	1,891.95	
28 46 13 31-1604 EA Analog Loop Unit (Gamewell-FCI ALU).....	1,891.95	76.91
<b>28 46 13 31-1605 NetSOLO® Intelligent Network (28 46 13 31-1595)</b>		
28 46 13 31-1606 EA Intelligent Network Interface Module, Fiber Optic (Gamewell-FCI INI-7100-FO)..... Note: Mounted in 7100 panel.	2,095.96	76.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1607 EA Intelligent Network Interface Module, Unshielded Twisted Pair (Gamewell-FCI INI-7100-UTP)..... Note: Mounted in 7100 panel.	1,669.99	76.91
<b>28 46 13 31-1608 Components And Accessories</b> <small>(28 46 13 31-1595)</small>		
28 46 13 31-1609 EA Remote Serial Annunciator, LCD Display (Gamewell-FCI LCD-7100).....	1,039.10	57.68
28 46 13 31-1610 EA Remote LED Driver Module, Outputs For Remote Panel Switches And 33 Remote LEDs (Gamewell-FCI LDM-7100).....	800.11	76.91
28 46 13 31-1611 EA Fiber Optic Line Driver Module (Gamewell-FCI FLD-1).....	1,448.04	76.91
28 46 13 31-1612 EA Class "A" Optional Module For Both Signaling Line Circuits (SLC) (Gamewell-FCI CAOM).....	597.74	76.91
28 46 13 31-1613 EA Enclosure Box (Gamewell-FCI EN-7100).....	514.92	153.82
28 46 13 31-1614 EA Serial Printer (Order RJAA To Db25 Connector Separately) (Gamewell-FCI P7200-TR-2).....	1,500.06	38.46
<b>28 46 13 31-1615 E3 Series® Basic System</b> <small>(28 46 13 31-1594)</small>		
28 46 13 31-1616 EA Intelligent Loop Interface, Mother Board (Gamewell-FCI ILI-MB-E3).....	1,417.84	76.91
28 46 13 31-1617 EA Intelligent Loop Interface, Supplemental (Gamewell-FCI ILI-S-E3).....	1,225.93	76.91
28 46 13 31-1618 EA Intelligent Loop Interface, Mother Board, XP95 Protocol (Gamewell-FCI ILI95-MB-E3).....	1,417.84	76.91
28 46 13 31-1619 EA Intelligent Loop Interface, Supplemental, XP95 Protocol (Gamewell-FCI ILI95-S-E3).....	1,225.93	76.91
28 46 13 31-1620 EA LCD Keypad Display (Gamewell-FCI LCD-E3).....	894.83	76.91
28 46 13 31-1621 EA Power Supply Module (Gamewell-FCI PM-9).....	1,164.47	76.91
28 46 13 31-1622 EA Transponder 9 Amperes Power Supply (Gamewell-FCI PM-9 INX).....	984.14	76.91
28 46 13 31-1623 EA Power Supply And Charger, 120/220 Volt AC (Gamewell-FCI PM-9G 9A).....	961.86	38.46
28 46 13 31-1624 EA Digital Alarm Communication Transmitter (Gamewell-FCI DACT-E3).....	569.64	76.91
28 46 13 31-1625 EA Network Repeater, Fiber Optic (Gamewell-FCI RPT-E3-FO).....	1,486.60	76.91
28 46 13 31-1626 EA Network Repeater, Unshielded Twisted Pair (Gamewell-FCI RPT-E3-UTP).....	1,249.35	76.91
28 46 13 31-1627 EA Local Operating Console (Gamewell-FCI 1100-0455).....	835.93	57.68
28 46 13 31-1628 EA Network Graphic Annunciator (Gamewell-FCI 1100-0505).....	2,655.10	57.68
28 46 13 31-1629 EA 70.7 VRMS Audio Output Series Amplifier Module (Gamewell-FCI AM-50-70).....	1,070.35	76.91
28 46 13 31-1630 EA INI-VGE-UTP Classic Enabled Voice Gateway Module (Gamewell-FCI 1100-1326).....	3,213.54	76.91
28 46 13 31-1631 EA 8-1/4" Wide x 10" High x 4-1/2" Deep Cabinet (Gamewell-FCI E3BB-BAA1).....	784.43	153.82
28 46 13 31-1632 EA C Size, Black, Command Center Enclosure (Gamewell-FCI E3BB-BC/INCC).....	590.01	153.82
28 46 13 31-1633 EA Double Size, Blank, Inner Door Panel (Gamewell-FCI E3-BP).....	130.91	38.46
28 46 13 31-1634 EA Programmable Switch Module (Gamewell-FCI ASM-16).....	757.56	76.91
28 46 13 31-1635 EA LED Driver module (Gamewell-FCI ANU-48).....	757.56	76.91
28 46 13 31-1636 EA Network Graphic Annunciator (Gamewell-FCI NGA).....	2,229.13	57.68
<b>28 46 13 31-1637 Addressable Devices, Module, Pulls And Accessories</b> <small>(28 46 13 31-1594)</small>		
<b>28 46 13 31-1638 Velociti® Series Sensors And Bases</b> <small>(28 46 13 31-1637)</small>		
28 46 13 31-1639 EA Analog Addressable Plug-In Ionization Smoke Sensor (Gamewell-FCI ASD-IL2F).....	249.19	57.68
28 46 13 31-1640 EA Analog Addressable Plug-In Photoelectric Smoke Sensor (Gamewell-FCI ASD-PL2F).....	254.08	57.68
28 46 13 31-1641 EA Analog Addressable Plug-In Photoelectric Smoke Sensor With 135 Degree F Fixed Temperature Thermal Sensing (Gamewell-FCI ASD-PTL2F).....	268.77	57.68
28 46 13 31-1642 EA Addressable Plug-In Thermal Sensor, 15 Degree F Rate Of Rise, 135 Degree F (Gamewell-FCI ATD-RL2F).....	210.02	57.68
28 46 13 31-1643 EA Addressable Plug-In Thermal Sensor, 190 Degree F (Gamewell-FCI ATD-HL2F).....	218.18	57.68
28 46 13 31-1644 EA Addressable Plug-In Thermal Sensor, 135 Degree F (Gamewell-FCI ATD-L2F).....	210.02	57.68
28 46 13 31-1645 EA Addressable Plug-In Multi-Criteria Analog Sensor (Gamewell-FCI MCS-ACCLIMATE2F).....	303.05	57.68
28 46 13 31-1646 EA Analog Addressable Laser Smoke Sensor, Low Profile (Gamewell-FCI ASD-LS).....	645.78	57.68
28 46 13 31-1647 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector Without Relay (Gamewell-FCI ADPF).....	559.49	96.14
28 46 13 31-1648 EA Analog Addressable Low Flow Photoelectric Smoke Duct Detector With Relay (Gamewell-FCI ADPRF).....	624.77	96.14
28 46 13 31-1649 EA Removal And Replacement Of Duct Detector Board (Gamewell-FCI ADP-F-SB).....	317.95	
28 46 13 31-1650 EA Flanged Mounting Base, For Use With Analog Sensor Or Velociti Sensors (Gamewell-FCI ADB-FLF).....	64.57	19.22
28 46 13 31-1651 EA Harsh Environment Analog Addressable Photoelectric Smoke Sensor (Gamewell-FCI ASD-FILTREX-F).....	694.74	57.68
28 46 13 31-1652 EA Flanged Mounting Base, For Use With ASD-FILTREX Or ASD-FILTREX-F (Gamewell-FCI ADB-FILTREXF).....	140.46	19.22
28 46 13 31-1653 EA Addressable Single-Ended Reflected Beam Smoke Sensor (Gamewell-FCI ABD-2F).....	2,434.00	115.36
<b>28 46 13 31-1654 Velociti® Series Modules And Pull Station</b> <small>(28 46 13 31-1637)</small>		
28 46 13 31-1655 EA Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2F).....	180.55	38.46
28 46 13 31-1656 EA Dual Style B, Class B Addressable Monitor Module (Gamewell-FCI AMM-2IF).....	284.18	38.46
28 46 13 31-1657 EA Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4F).....	196.87	38.46
28 46 13 31-1658 EA Subloop Style D, Class A Addressable Monitor Module (Gamewell-FCI AMM-4SF).....	272.76	38.46
28 46 13 31-1659 EA Addressable Output Relay Control Module (Gamewell-FCI AOM-2RF).....	229.51	38.46
28 46 13 31-1660 EA Addressable Output Supervised Module (Gamewell-FCI AOM-2SF).....	237.67	38.46
28 46 13 31-1661 EA Addressable Double Action Station, With AMM-2SF Mini-Mod (Gamewell-FCI MS-7AF).....	339.06	76.91
28 46 13 31-1662 EA Addressable Single Action Pull Station (Gamewell-FCI MS-7ASF).....	245.01	38.46
28 46 13 31-1663 EA Telephone Filters (Gamewell-FCI AOM-TEL-FL).....	39.87	7.69
<b>28 46 13 31-1664 Components And Accessories</b> <small>(28 46 13 31-1637)</small>		
28 46 13 31-1665 EA Remote LED Annunciator Alarm (Gamewell-FCI RA400Z)..... Note: Mounts on single gang box.	102.33	30.76
28 46 13 31-1666 EA Up To 2' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-1.5).....	51.16	15.39
28 46 13 31-1667 EA >2' To 4' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-3).....	54.42	15.39
28 46 13 31-1668 EA >4' To 8' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-5).....	65.39	19.22
28 46 13 31-1669 EA >8' To 10' Wide Ducts Metal Sampling Tube (Gamewell-FCI ST-10).....	103.27	23.07
28 46 13 31-1670 EA Remote Test Station With LED Alarm And Magnet Test Switch (Gamewell-FCI RTS451)..... Note: Mounts on single gang box.	152.92	30.76



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>28 46</b>	<b>13 31-</b>	<b>1671</b>	<b>Fixed And Rate of Rise Heat Detectors</b> (28 46 13 31-1637)		
			28 46 13 31-1672 EA 135 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5601P) .....	143.10	57.68
			28 46 13 31-1673 EA 194 Degree F Fixed Temperature And Rate Of Rise Heat Detector (Gamewell-FCI 5602) .....	143.10	57.68
			28 46 13 31-1674 EA 135 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5603) .....	143.58	57.68
			28 46 13 31-1675 EA 194 Degree F Fixed Temperature Heat Detector (Gamewell-FCI 5604) .....	143.58	57.68
<b>28 46</b>	<b>13 31-</b>	<b>1676</b>	<b>NAC Expander/Power Supply</b> (28 46 13 31-1637)		
			28 46 13 31-1677 EA FireForce 8 NAC Expander/Power Supply, 12/24 Volt DC, 8 Amperes, 4 Notification Appliance Circuits, Built-in Synchronization Protocols For Gamewell, Wheelock, Gentex, Faraday, And System Sensor (Gamewell-FCI FF8).....	2,405.66	615.28
			28 46 13 31-1678 EA 6A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-6).....	2,095.57	615.28
			28 46 13 31-1679 EA 9A Supplementary Notification Appliance Circuit Power Supply With Sync (Gamewell-FCI GFPS-9).....	2,250.61	615.28
<b>28 46</b>	<b>13 31-</b>	<b>1680</b>	<b>Batteries And Accessories</b> (28 46 13 31-1594)		
			28 46 13 31-1681 EA B-17R, 12 Volt DC, 17 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2010A) .....	357.62	38.46
			28 46 13 31-1682 EA B-55R, 12 Volt DC, 55 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2710A) .....	889.67	38.46
			28 46 13 31-1683 EA B-7R, 12 Volt DC, 7 Ampere Hours Sealed Lead Acid Battery (Gamewell-FCI 100-2311A) .....	194.42	38.46
			28 46 13 31-1684 EA BC-1, Battery Cabinet, Beige (Gamewell-FCI 1100-0653) .....	449.22	76.91
			28 46 13 31-1685 EA BC-1R, Battery Cabinet, Red (Gamewell-FCI 1100-0654) .....	449.22	76.91
			28 46 13 31-1686 EA 12" High x 12" Wide x 24" Length Vented Steel Battery Cabinet With Hinged Key Lockable Cover (Gamewell-FCI GW70970).....	401.89	76.91
<b>28 46</b>	<b>13 31-</b>	<b>1687</b>	<b>Electronic Door Holders</b> (28 46 13 31-1594)		
			Note: Rixson products.		
			28 46 13 31-1688 EA XK-996, Door Holder Extender Kit, 1-1/2" Spacer (Gamewell-FCI 140-30000).....	63.37	7.69
			28 46 13 31-1689 EA FM-980, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Door Holder(Gamewell-FCI 140-90000) .....	507.05	57.68
			28 46 13 31-1690 EA FM-981, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Floor Mount Holder For Double Doors (Gamewell-FCI 140-90001) .....	684.95	57.68
			28 46 13 31-1691 EA FM-990, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Low Profile Mount Door Holder (Gamewell-FCI 140-90002).....	329.81	57.68
			28 46 13 31-1692 EA FM-996, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Surface Mount Door Holder (Gamewell-FCI 140-90003).....	315.12	57.68
			28 46 13 31-1693 EA FM-997, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder (Gamewell-FCI 140-90004) .....	329.81	57.68
			28 46 13 31-1694 EA FM-998, 12 Volt DC, 24 Volt AC/DC Or 120 Volt AC, Recessed Mount Door Holder With Concealed Wiring (Gamewell-FCI 140-90005) .....	329.16	57.68
<b>28 46</b>	<b>13 31-</b>	<b>1695</b>	<b>Fire Alarm Programming</b> (28 46 13 31-1594)		
			Note: For device replacement projects only. Tasks not to be used on projects where a fire alarm panel is replaced.		
			28 46 13 31-1696 EA Program And Test Up To 5 Total Fire Alarm Devices.....	500.00	
			28 46 13 31-1697 EA Program And Test >5 To 20 Total Fire Alarm Devices .....	1,000.00	
			28 46 13 31-1698 EA Program And Test >20 To 50 Total Fire Alarm Devices .....	2,000.00	
<b>28 46</b>	<b>13 31-</b>	<b>1699</b>	<b>Fire-Lite Fire Alarm</b> (28 46 13 31-0972)		
<b>28 46</b>	<b>13 31-</b>	<b>1700</b>	<b>Addressable Control Panels</b> (28 46 13 31-1699)		
			28 46 13 31-1701 EA 25 Point Intelligent Control (Fire Lite MS-25) .....	2,477.35	769.11
			28 46 13 31-1702 EA 50 Point Intelligent Control (Fire Lite MS-9050UD).....	2,705.85	769.11
			28 46 13 31-1703 EA 198-Point Intelligent Control (Fire Lite MS-9200UDLS) .....	3,827.14	769.11
			28 46 13 31-1704 EA 636-Point Intelligent Control (Fire Lite MS-9600LS) .....	5,598.28	769.11
			28 46 13 31-1705 EA 636-Point Intelligent Control (Fire Lite MS-9600UDLS).....	5,380.26	769.11
			28 46 13 31-1706 EA IP And 4G Cellur Fire Alarm Communicator For Fire Alarm Control Panel (Fire-Lite IPGSM-4G).....	683.92	
<b>28 46</b>	<b>13 31-</b>	<b>1707</b>	<b>Silent Knight Fire Alarm</b> (28 46 13 31-0972)		
			28 46 13 31-1708 EA Addressable Fire Alarm Control Panel With Integrated Emergency Communication System (Silent Knight 5820XL-EVS) .....	5,881.31	384.55
			28 46 13 31-1709 EA Supervised Remote Command Unit (Silent Knight EVS-RCU).....	2,450.06	230.73
			28 46 13 31-1710 EA 50 Watt Amplifier (Silent Knight EVS-50W) .....	1,717.01	153.82
			28 46 13 31-1711 EA 125 Watt Amplifier (Silent Knight EVS-125W) .....	3,041.96	153.82
			28 46 13 31-1712 EA Voice Evacuation System (Silent Knight SKE-450) .....	2,910.64	153.82
			28 46 13 31-1713 EA Fire Fighters Telephone (Silent Knight SK-FFT).....	2,418.18	153.82
			28 46 13 31-1714 EA Multi-Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5820XL) .....	2,485.22	230.73
			28 46 13 31-1715 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5808) .....	1,845.98	153.82
			28 46 13 31-1716 EA Single Loop Addressable Fire Alarm Control/Communicator System (Silent Knight 5700) .....	1,415.81	153.82
			28 46 13 31-1717 EA Hybrid Conventional Fire Alarm Control/Communicator System (Silent Knight 5600).....	1,223.59	153.82
			28 46 13 31-1718 EA Combination Fire And CO Detector (Silent Knight SK-FIRE-CO) .....	391.51	57.68
			28 46 13 31-1719 EA Photoelectric Detector (Silent Knight SK-PHOTO) .....	226.53	57.68
			28 46 13 31-1720 EA Photoelectric Thermal Detector (Silent Knight SK-PHOTO-T).....	238.01	57.68
			28 46 13 31-1721 EA Ionization Smoke Detector (Silent Knight SK-ION) .....	239.30	57.68
			28 46 13 31-1722 EA 135 Degree Fixed Temperature Detector (Silent Knight SK-HEAT) .....	209.62	57.68
			28 46 13 31-1723 EA 190 Degree Fixed Temperature Detector (Silent Knight SK-HEAT-HT) .....	220.11	57.68
			28 46 13 31-1724 EA 135 Degree Fixed Temperature Rate-of-Rise Detector (Silent Knight SK-HEAT-ROR) .....	223.97	57.68
			28 46 13 31-1725 EA Sounder Base (Silent Knight B200SR).....	132.98	19.22
			28 46 13 31-1726 EA Intelligent Sounder Base (Silent Knight B200S).....	140.66	19.22
			28 46 13 31-1727 EA Isolator Base (Silent Knight B224BI).....	111.30	19.22
			28 46 13 31-1728 EA Relay Base (Silent Knight B224RB).....	112.55	19.22



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1729 EA Multi-Criteria Photoelectric Detector With Thermal Sensing (Silent Knight SK-ACCLIMATE) .....	243.31	57.68
28 46 13 31-1730 EA Photoelectric Duct Detector (Silent Knight SK-DUCT).....	386.71	57.68
28 46 13 31-1731 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM) .....	1,344.15	57.68
28 46 13 31-1732 EA Single-Ended Reflected Beam Smoke Detector (Silent Knight SK-BEAM-T) .....	1,534.09	57.68
28 46 13 31-1733 EA Dual Monitor Module (Silent Knight SK-MONITOR-2) .....	287.60	57.68
28 46 13 31-1734 EA Supervised Control Module (Silent Knight SK-CONTROL).....	240.84	57.68
28 46 13 31-1735 EA Six Circuit Supervised Control Module (Silent Knight SK-CONTROL-6).....	794.51	76.91
28 46 13 31-1736 EA Relay Control Module (Silent Knight SK-RELAY) .....	204.86	38.46
28 46 13 31-1737 EA Six Relay Control Module (Silent Knight SK-RELAY-6) .....	768.39	76.91
28 46 13 31-1738 EA Zone Interface Module (Silent Knight SK-ZONE).....	245.76	57.68
28 46 13 31-1739 EA Six Zone Interface Module (Silent Knight SK-ZONE-6).....	917.89	76.91
28 46 13 31-1740 EA Monitor Module (Silent Knight SK-MONITOR) .....	212.45	57.68
28 46 13 31-1741 EA 10 Input Monitor Module (Silent Knight SK-MON-10) .....	889.43	76.91
28 46 13 31-1742 EA Monitor Module (Silent Knight SK-MINIMON).....	198.42	57.68
28 46 13 31-1743 EA Fault Isolator Module (Silent Knight SK-ISO).....	220.11	57.68
28 46 13 31-1744 EA Addressable Heat Sensor (Silent Knight SD505-AHS).....	216.30	57.68
28 46 13 31-1745 EA Analog Ionization Smoke Detector (Silent Knight SD505-AIS) .....	234.40	57.68
28 46 13 31-1746 EA Addressable Photoelectric Smoke Detector (Silent Knight SD505-APS) .....	220.11	57.68
28 46 13 31-1747 EA 6" Addressable Sounder Base (Silent Knight SD505-6SB).....	162.40	19.22
28 46 13 31-1748 EA 6" Addressable Relay Base (Silent Knight SD505-6RB).....	153.43	19.22
28 46 13 31-1749 EA 6" Isolator Base (Silent Knight SD505-6IB).....	139.40	19.22
28 46 13 31-1750 EA Addressable Input Module (Silent Knight SD500-AIM) .....	218.85	57.68
28 46 13 31-1751 EA Addressable Notification Module (Silent Knight SD500-ANM).....	267.91	57.68
28 46 13 31-1752 EA Addressable Relay Module (Silent Knight SD500-ARM).....	240.84	57.68
28 46 13 31-1753 EA SLC Annunciator Driver Module (Silent Knight SD500-LED).....	921.25	115.36
28 46 13 31-1754 EA Loop Isolation Module (Silent Knight SD500-LIM) .....	227.78	57.68
28 46 13 31-1755 EA Addressable Mini Input Module (Silent Knight SD500-MIM).....	177.85	38.46
28 46 13 31-1756 EA Single Action Addressable Pull Station (Silent Knight SD500-PS).....	227.01	38.46
28 46 13 31-1757 EA Dual Action Addressable Pull Station (Silent Knight SD500-PSDA) .....	217.16	38.46
28 46 13 31-1758 EA Back Box (Silent Knight SK-PSSMBB) .....	102.73	30.76
28 46 13 31-1759 EA Smoke Detector Module (Silent Knight SD500-SDM) .....	253.14	57.68
28 46 13 31-1760 EA Addressable Smoke 4" Detector Base (Silent Knight SD505-4AB).....	61.82	19.22
28 46 13 31-1761 EA Addressable Smoke 6" Detector Base (Silent Knight SD505-6AB).....	61.82	19.22
28 46 13 31-1762 EA Addressable Duct Housing (Silent Knight SD505-DUCT) .....	403.53	57.68
28 46 13 31-1763 EA Addressable Duct Housing With Built-In Relay (Silent Knight SD505-DUCTR).....	521.20	57.68
28 46 13 31-1764 EA Addressable Duct Detector Test Switch (Silent Knight SD505-DTS).....	225.23	57.68
28 46 13 31-1765 EA Intelligent Power Module (Silent Knight 5895XL).....	1,325.63	153.82
28 46 13 31-1766 EA Addressable Power Supply (Silent Knight 5496) .....	925.99	115.36
28 46 13 31-1767 EA Relay Interface Board (Silent Knight 5883) .....	353.06	38.46
28 46 13 31-1768 EA Remote LED Annunciator (Silent Knight 5865-3).....	725.68	76.91
28 46 13 31-1769 EA Remote LED Annunciator (Silent Knight 5865-4).....	820.13	76.91
28 46 13 31-1770 EA Remote LCD Annunciator (Silent Knight SK-5860).....	785.98	115.36
28 46 13 31-1771 EA Serial/Parallel Printer Interface (Silent Knight 5824).....	501.96	38.46
28 46 13 31-1772 EA LED Input/Output Module (Silent Knight / IntelliKnight 5880).....	592.30	57.68
28 46 13 31-1773 EA Addressable Pull Station (Silent Knight SK-Pull-DA/SA).....	217.16	38.46
28 46 13 31-1774 EA Digital Fire Communicator with Cabinet (Silent Knight SK-5104) .....	752.76	115.36
28 46 13 31-1775 EA Communicator (Silent Knight IPGSM-4G).....	1,093.66	76.91
28 46 13 31-1776 EA Ten Zone Conventional Fire Alarm Control Panel (Silent Knight SK-5208) .....	1,735.77	153.82
28 46 13 31-1777 EA 10 Zone Expander (Silent Knight SK-5217) .....	485.16	38.46
28 46 13 31-1778 EA Remote Annunciator (Silent Knight SK-5235).....	494.81	76.91
28 46 13 31-1779 EA Status Display Module (Silent Knight 5280).....	147.19	38.46
28 46 13 31-1780 EA Serial/Parallel Module (Silent Knight 5824).....	578.87	76.91
28 46 13 31-1781 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4).....	1,002.91	153.82
28 46 13 31-1782 EA Four Zone Conventional Fire Alarm Control Panel (Silent Knight SK-4E).....	1,021.89	153.82
28 46 13 31-1783 EA Dress Panel (Silent Knight SK-DP2/4).....	191.88	38.46
28 46 13 31-1784 EA Class A Converter (Silent Knight SK-CAC4).....	489.98	57.68
28 46 13 31-1785 EA Transmitter Module (Silent Knight SK-4XTM) .....	265.46	57.68
28 46 13 31-1786 EA LED Interface Module (Silent Knight SK-4XLM).....	245.76	57.68
28 46 13 31-1787 EA 110 Volt AC, 3-6 Amperes, Transformer (Silent Knight SK-XRM24) .....	246.68	38.46
28 46 13 31-1788 EA Remote Annunciator (Silent Knight SK-RZA4).....	245.76	57.68
28 46 13 31-1789 EA Zone Relay Module (Silent Knight SK-4XZM).....	262.98	57.68
28 46 13 31-1790 EA Two Zone Conventional Fire Alarm Control Panel (Silent Knight SK-2).....	872.39	153.82
28 46 13 31-1791 EA Remote Battery Box Accessory Cabinet (Silent Knight RBB) .....	217.16	38.46
28 46 13 31-1792 EA Manual Pull Station (single action) (Silent Knight PS-SATK) .....	124.55	38.46
28 46 13 31-1793 EA Manual Pull Station (dual action) (Silent Knight PS-DATK) .....	134.06	38.46
28 46 13 31-1794 EA Manual Pull Station (dual action) (Silent Knight PS-DA).....	131.39	38.46
28 46 13 31-1795 EA Dual Action Manual Pull Station, Hex Key (Silent Knight PS-DAH) .....	118.35	38.46
28 46 13 31-1796 EA Dual Action Listed Outdoor Manual Pull Station With Black Box (Silent Knight PS-DALOB).....	254.68	46.15
28 46 13 31-1797 EA 6 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5495).....	871.42	115.36
28 46 13 31-1798 EA 9 Amperes, 24 Volt DC, Distributed Power Module (with cabinet) (Silent Knight SK-5499).....	975.83	115.36
28 46 13 31-1799 EA Detector (Silent Knight IDP-PhotoR).....	314.51	57.68
28 46 13 31-1800 EA Monitoring Module (Silent Knight IDP).....	314.69	57.68
28 46 13 31-1801 EA Cabinet (Silent Knight SK-5207) .....	440.36	115.36
28 46 13 31-1802 EA Innovair IDP-Product (Silent Knight Innovair IDP-Pduct) .....	600.99	38.46
28 46 13 31-1803 EA I/O Input-Output Module (Silent Knight SK-2880).....	810.61	38.46
28 46 13 31-1804 EA Remote Annunciator (Silent Knight RA-2000).....	2,327.03	115.36
28 46 13 31-1805 EA Power Supply (Silent Knight 5195/96).....	1,439.51	38.46
28 46 13 31-1806 EA 8 Zone Expander (Silent Knight SK-5210).....	1,125.06	38.46
28 46 13 31-1807 EA LCD Remote Annunciator (Silent Knight SK-5230).....	470.79	76.91
28 46 13 31-1808 EA Ionization Smoke Detector (Silent Knight SK-ION) .....	239.30	57.68
28 46 13 31-1809 EA Addressable Relay Module (Silent Knight IDP-Relay) .....	272.58	57.68





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1810 EA Telephone Line Monitor (Silent Knight SK-7150).....	171.24	38.46
28 46 13 31-1811 EA Serial Driver Board (Silent Knight SK-2884).....	309.60	38.46
28 46 13 31-1812 EA Smoke Detector Base (Silent Knight IDP-6AB).....	90.87	19.22
28 46 13 31-1813 EA Mini Input Module (Silent Knight IDP-MINIMON).....	234.13	38.46
28 46 13 31-1814 EA Status Display Module (Silent Knight SK-4180).....	831.58	38.46
28 46 13 31-1815 EA 8-Channel Digital Communicator (Silent Knight SK-1420).....	496.17	38.46
28 46 13 31-1816 EA Serial Parallel Module (Silent Knight SK-4824).....	454.24	38.46
28 46 13 31-1817 EA Power Supply (Silent Knight SK-5197 / SK-5198).....	1,649.13	38.46
28 46 13 31-1818 EA 4-Zone Fire Alarm Control Panel, Complete (Silent Knight SK-5204).....	2,823.21	153.82
28 46 13 31-1819 EA Intelligent Ionization Smoke Detector (Silent Knight IDP-ION).....	324.99	57.68
28 46 13 31-1820 EA Intelligent Photoelectric Smoke Detector (Silent Knight IDP-Photo).....	272.58	57.68
28 46 13 31-1821 EA Fire Slave Communicator Dialer (Silent Knight SK-5128).....	534.03	38.46
28 46 13 31-1822 EA Intelligent Power Module (with cabinet) (Silent Knight SK-5496).....	925.99	115.36
<b>28 46 13 31-1823 Alerton Fire Alarm (28 46 13 31)</b>		
28 46 13 31-1824 EA UL Listed Surge Protector In CHS-M3 Or CPU2-640 Chassis (Alerton ESD-100).....	644.62	11.54
<b>28 46 13 31-1825 Cooper Fire Alarm (28 46 13 31)</b>		
28 46 13 31-1826 EA Single Circuit Class A / Multiple B, 12 Or 24 Volt DC, Sync Module (Cooper DSM-12/24-R).....	223.37	38.46
28 46 13 31-1827 EA Red Lens, 21 Joules, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X And 6, Strobe (Cooper EP109205-001).....	4,553.39	65.37
28 46 13 31-1828 EA Red, 100 dB, 24 Volt DC, Class I, Div 1, Groups C, D, NEMA 4X, Multitone Horn (Cooper EP109206-002).....	5,999.22	65.37
28 46 13 31-1829 EA Red Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-001).....	2,205.30	76.91
28 46 13 31-1830 EA Clear Lens, 5 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-002).....	2,218.15	76.91
28 46 13 31-1831 EA Amber Lens, 5 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109201-007).....	2,218.15	76.91
28 46 13 31-1832 EA Red Lens, 10 Joules, 24 Volt DC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-001).....	1,649.45	76.91
28 46 13 31-1833 EA Amber Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-003).....	1,649.45	76.91
28 46 13 31-1834 EA Red Lens, 10 Joules, 120 Volt AC, Wire Guard, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-004).....	1,649.45	76.91
28 46 13 31-1835 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Backstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-005).....	2,218.15	76.91
28 46 13 31-1836 EA Amber Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-006).....	2,218.15	76.91
28 46 13 31-1837 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Blackstrap, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-007).....	2,218.15	76.91
28 46 13 31-1838 EA Red Lens, 15 Joules, 120 Volt AC, Wire Guard, Black Finish, Pendant Mounted, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109202-008).....	2,218.15	76.91
28 46 13 31-1839 EA Red Lens, 15 Joules, 24 Volt DC, Wire Guard, Blackstrap, Black Finish, Class I, Div 2, Groups A, B, C And D, NEMA 4X And 6, Strobe (Cooper HL109203-002).....	2,218.15	76.91
28 46 13 31-1840 EA Red Lens, 21 Joules, 24 Volt DC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-001).....	2,550.69	76.91
28 46 13 31-1841 EA Red Lens, 21 Joules, 24 Volt DC, Black Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-003).....	2,370.76	76.91
28 46 13 31-1842 EA Amber Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-005).....	2,370.76	76.91
28 46 13 31-1843 EA Red Lens, 21 Joules, 110 Volt AC, Red Finish, Class I, Div 2, Groups C And D, NEMA 4X And 6, Strobe (Cooper HL109204-006).....	2,370.76	76.91
<b>28 46 13 31-1844 Light Engineered Displays Message Boards (28 46 13 31)</b>		
28 46 13 31-1845 EA Two Message Sign, Announcement And Evacuate (LED SP-2/MNS).....	951.29	46.15
28 46 13 31-1846 EA Four Message Sign, Fire, Weather, Announcement, E Voltuate (LED SP-4).....	840.72	46.15
<b>28 46 13 31-1847 Safety Technology International Fire Alarm (28 46 13 31)</b>		
<b>28 46 13 31-1848 Enclosures (28 46 13 31-1847)</b>		
28 46 13 31-1849 EA 6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF060604-O).....	175.96	23.07
28 46 13 31-1850 EA 6" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF060604-W).....	228.11	23.07
28 46 13 31-1851 EA 8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080604-O).....	179.43	23.07
28 46 13 31-1852 EA 8" Height x 6" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080604-W).....	229.27	23.07
28 46 13 31-1853 EA 8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure (STI EF080804-O).....	184.07	23.07
28 46 13 31-1854 EA 8" Height x 8" Width x 4" Depth, Opaque, Fiberglass Enclosure With Window (STI EF080804-W).....	264.04	23.07
28 46 13 31-1855 EA 10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF100806-O).....	192.18	23.07
28 46 13 31-1856 EA 10" Height x 8" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF100806-W).....	262.88	23.07
28 46 13 31-1857 EA 12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF121006-O).....	206.09	23.07
28 46 13 31-1858 EA 12" Height x 10" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF121006-W).....	284.90	23.07
28 46 13 31-1859 EA 14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure (STI EF141206-O).....	244.34	23.07
28 46 13 31-1860 EA 14" Height x 12" Width x 6" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141206-W).....	368.35	23.07
28 46 13 31-1861 EA 14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF141208-O).....	262.88	23.07
28 46 13 31-1862 EA 14" Height x 12" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF141208-W).....	463.39	23.07
28 46 13 31-1863 EA 16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure (STI EF161408-O).....	279.11	23.07
28 46 13 31-1864 EA 16" Height x 14" Width x 8" Depth, Opaque, Fiberglass Enclosure With Window (STI EF161408-W).....	477.29	23.07
28 46 13 31-1865 EA 18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF181610-O).....	331.26	23.07
28 46 13 31-1866 EA 18" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF181610-W).....	490.04	23.07
28 46 13 31-1867 EA 20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure (STI EF201610-O).....	477.29	23.07



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 46 13 31-1868	EA		20" Height x 16" Width x 10" Depth, Opaque, Fiberglass Enclosure With Window (STI EF201610-W).....	706.77	23.07
28 46 13 31-1869	EA		6" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP060605-O) .....	131.92	23.07
28 46 13 31-1870	EA		6" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP060605-T) .....	143.51	23.07
28 46 13 31-1871	EA		8" Height x 6" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080605-O) .....	137.13	23.07
28 46 13 31-1872	EA		8" Height x 6" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080605-T).....	146.98	23.07
28 46 13 31-1873	EA		8" Height x 8" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP080805-O) .....	141.77	23.07
28 46 13 31-1874	EA		8" Height x 8" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP080805-T) .....	153.36	23.07
28 46 13 31-1875	EA		10" Height x 8" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP100806-O) .....	143.51	23.07
28 46 13 31-1876	EA		10" Height x 8" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP100806-T).....	167.26	23.07
28 46 13 31-1877	EA		10" Height x 8" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP100807-O) .....	150.46	23.07
28 46 13 31-1878	EA		10" Height x 8" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP100807-T).....	171.90	23.07
28 46 13 31-1879	EA		10" Height x 10" Width x 6" Depth, Opaque, Polycarbonate Enclosure (STI EP101006-O) .....	156.83	23.07
28 46 13 31-1880	EA		10" Height x 10" Width x 6" Depth, Tinted, Polycarbonate Enclosure (STI EP101006-T).....	174.80	23.07
28 46 13 31-1881	EA		12" Height x 10" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP121007-O) .....	158.57	23.07
28 46 13 31-1882	EA		12" Height x 10" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP121007-T).....	180.59	23.07
28 46 13 31-1883	EA		14" Height x 12" Width x 7" Depth, Opaque, Polycarbonate Enclosure (STI EP141207-O) .....	185.23	23.07
28 46 13 31-1884	EA		14" Height x 12" Width x 7" Depth, Tinted, Polycarbonate Enclosure (STI EP141207-T).....	229.27	23.07
28 46 13 31-1885	EA		16" Height x 14" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP161409-O) .....	203.77	23.07
28 46 13 31-1886	EA		16" Height x 14" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP161409-T).....	273.31	23.07
28 46 13 31-1887	EA		18" Height x 16" Width x 5" Depth, Opaque, Polycarbonate Enclosure (STI EP181604-O) .....	225.79	23.07
28 46 13 31-1888	EA		18" Height x 16" Width x 5" Depth, Tinted, Polycarbonate Enclosure (STI EP181604-T).....	293.01	23.07
28 46 13 31-1889	EA		18" Height x 16" Width x 11" Depth, Opaque, Polycarbonate Enclosure (STI EP181611-O) .....	255.93	23.07
28 46 13 31-1890	EA		18" Height x 16" Width x 11" Depth, Tinted, Polycarbonate Enclosure (STI EP181611-T).....	342.85	23.07
28 46 13 31-1891	EA		20" Height x 16" Width x 9" Depth, Opaque, Polycarbonate Enclosure (STI EP201608-O) .....	405.44	23.07
28 46 13 31-1892	EA		20" Height x 16" Width x 9" Depth, Tinted, Polycarbonate Enclosure (STI EP201608-T).....	423.98	23.07
28 46 13 31-1893	EA		24" Height x 24" Width x 10" Depth, Opaque, Polycarbonate Enclosure (STI EP242410-O) .....	609.42	23.07
28 46 13 31-1894	EA		24" Height x 24" Width x 10" Depth, Tinted, Polycarbonate Enclosure (STI EP242410-T).....	705.62	23.07

### 28 46 13 31-1895 STI® Fire Alarm Devices (28 46 13 31-1847)

28 46 13 31-1896	EA		Pull Station Polycarbonate Cover, Semi Flush With Horn (STI-1100).....	210.15	23.07
			Note: Includes 9 Volt DC self contained battery.		
28 46 13 31-1897	EA		Surface Mounted, Manual Pull Station Polycarbonate Cover With Horn (STI-1130) .....	229.27	23.07
28 46 13 31-1898	EA		Flush Mounted, Manual Pull Station Polycarbonate Cover (STI-1200).....	135.68	23.07
28 46 13 31-1899	EA		Surface Mounted, Horn Strobe Polycarbonate Cover (STI-1210D) .....	136.84	23.07
			Note: For surface mounted horn strobes.		
28 46 13 31-1900	EA		Flush Mounted, Horn Strobe Polycarbonate Cover (STI-1210E).....	121.77	23.07
28 46 13 31-1901	EA		Strobe Damage Stopper And Open Backbox With Conduit Knockout (STI-1221D) .....	136.84	23.07
			Note: For surface mounted strobe.		
28 46 13 31-1902	EA		Strobe Damage Stopper And Open Backbox, Semi Flush (STI-1221E).....	110.47	23.07
28 46 13 31-1903	EA		NEMA 4X Rated Polycarbonate Dome Cover (STI-1229).....	258.25	23.07
28 46 13 31-1904	EA		Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-1230) .....	172.48	23.07
			Note: For surface mounted pull stations.		
28 46 13 31-1905	EA		Backplate For Polycarbonate Cover (STI-1280) .....	82.77	23.07
28 46 13 31-1906	EA		Conduit Gasket For Polycarbonate Cover (STI-3003) .....	60.06	23.07
28 46 13 31-1907	EA		Conduit Spacer For Surface Mounted Polycarbonate Cover (STI-3100).....	84.05	23.07
28 46 13 31-1908	EA		Weather Resistant, Surface Mounted, Manual Pull Station Polycarbonate Cover (STI-3150) .....	192.76	23.07
28 46 13 31-1909	EA		8.5" x 6.5" x 4.6", Thumb Lock, Lockable Enclosure (STI-7511A) .....	159.73	23.07
28 46 13 31-1910	EA		Flush Mounted, Smoke Detector Polycarbonate Cover (STI-8100).....	118.01	23.07
28 46 13 31-1911	EA		Flush Mounted, Low Profile, Smoke Detector Steel Wire Cover (STI-9601).....	111.63	23.07
28 46 13 31-1912	EA		Surface Mounted, Low Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9602) .....	107.87	23.07
28 46 13 31-1913	EA		Flush Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9604) .....	111.63	23.07
28 46 13 31-1914	EA		Surface Mounted, Mini Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9605).....	107.87	23.07
28 46 13 31-1915	EA		Flush Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9609).....	111.63	23.07
28 46 13 31-1916	EA		Surface Mounted, High Profile, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9610).....	107.87	23.07
28 46 13 31-1917	EA		Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9625).....	211.31	23.07
28 46 13 31-1918	EA		White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705).....	100.27	23.07
28 46 13 31-1919	EA		Red, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9705-R) .....	115.23	23.07
28 46 13 31-1920	EA		Flush Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9706) .....	152.20	23.07
28 46 13 31-1921	EA		Surface Mounted, Beam Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9707).....	152.20	23.07
28 46 13 31-1922	EA		White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708) .....	110.47	23.07
28 46 13 31-1923	EA		Red, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9708-R).....	110.47	23.07
28 46 13 31-1924	EA		White, Flush Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9711).....	100.27	23.07
28 46 13 31-1925	EA		Flush Mounted, Smoke Detector, Polyester Shell, Steel Wire Cover (STI-9713).....	110.47	23.07
28 46 13 31-1926	EA		White, Surface Mounted, Horn/Strobe/Speaker, Polyester Shell, Steel Wire Cover (STI-9714).....	110.47	23.07
28 46 13 31-1927	EA		Yellow, High Threat, Push Button Station (STI SS-2201) .....	133.52	11.54
28 46 13 31-1928	EA		Gasket Kit For STI Covers (STI SUB-121).....	58.04	
28 46 13 31-1929	EA		Universal Cover With Horn, Flush Mount, Momentary Button, Exit Label, Green Stopper Station (STI SS-2144XT).....	273.31	23.07
28 46 13 31-1930	EA		No Cover, Push And Turn-To-Reset Button, Evacuation Label, Yellow Stopper Station (STI SS-2201EV).....	149.88	23.07
28 46 13 31-1931	EA		No Cover, Push And Key-To-Reset Button, Emergency Label, Blue Stopper Station (STI SS-2400EM).....	149.88	23.07
28 46 13 31-1932	EA		Universal Cover With Horn, Flush Mount, Push And Key-To-Reset Button, Emergency Label, Blue Stopper Station (STI SS-2440EM).....	273.31	23.07
28 46 13 31-1933	EA		Flush Mounted, Weather Stopper II (STI-1250).....	161.18	23.07
28 46 13 31-1934	EA		Flush Mounted, Clear, Universal Stopper (STI-13000NC).....	107.87	23.07
28 46 13 31-1935	EA		Flush Mounted, Universal, Fire Label, Red, Stopper With Horn (STI-13020FR).....	183.49	23.07
28 46 13 31-1936	EA		Surface Mounted, Clear, Universal Stopper (STI-13200NC) .....	129.60	23.07
28 46 13 31-1937	EA		Surface Mounted, Fire Label, Red, Universal Stopper (STI-13210FR).....	141.19	23.07
28 46 13 31-1938	EA		Surface Mounted, No Label, White, Universal Stopper (STI-13210NW).....	153.36	23.07
28 46 13 31-1939	EA		Surface Mounted, No Label, Yellow, Universal Stopper (STI-13210NY) .....	153.36	23.07
28 46 13 31-1940	EA		Surface Mounted, Fire Label, Red, Universal Stopper With Horn (STI-13220FR) .....	204.93	23.07
28 46 13 31-1941	EA		Surface Mounted, No Label, Yellow, Universal Stopper With Horn (STI-13220NY) .....	216.52	23.07



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-1942	EA			Surface Mounted, Fire Label, Red, Universal Stopper With Horn And Relay (STI-13230FR) .....	257.09	23.07
28 46 13 31-1943	EA			Stopper II, Weather Gasket (STI-3002) .....	58.84	23.07
28 46 13 31-1944	EA			Large, Break Glass Stopper (STI-4100) .....	152.20	23.07
28 46 13 31-1945	EA			Stopper "G" Standard Break Glass Cover (STI-6100) .....	146.98	23.07
28 46 13 31-1946	EA			Clear, Polycarbonate Enclosure With Deep Back Box And Exterior Key Lock (STI-7510A).....	142.06	23.07
28 46 13 31-1947	EA			Polycarbonate Multi-Purpose Enclosure With Backplate And Key Lock (STI-7530).....	375.30	23.07
28 46 13 31-1948	EA			Heated, Metal, Protective Cabinet (STI-7560AH) .....	5,215.25	23.07
28 46 13 31-1949	EA			Stainless Steel Guard (STI-9604SS) .....	102.94	23.07
28 46 13 31-1950	EA			5-3/4" Width x 4-1/2" Depth, Motion Detector Guard (STI-9621) .....	92.80	23.07
<b>28 46 13 31-1951</b>				<b>System Sensor Fire Alarm (28 46 13 31)</b>		
<b>28 46 13 31-1952</b>				<b>Smoke Detectors (28 46 13 31-1951)</b>		
28 46 13 31-1953	EA			Beam Detector Heater Kit (System Sensor BEAMHK) .....	68.38	7.69
28 46 13 31-1954	EA			Reflectors, Beam Detector Heater Kit (System Sensor BEAMHKR).....	280.92	7.69
				Note: Four used with long range kit.		
28 46 13 31-1955	EA			Projected Beam Smoke Detector Long Range Kit (System Sensor BEAMLRK) .....	361.00	76.91
28 46 13 31-1956	EA			Wall Or Ceiling Mounted, Projected Beam Smoke Detector Multi-Mount Kit (System Sensor BEAMMMK) .....	269.91	76.91
28 46 13 31-1957	EA			Projected Beam Smoke Detector Surface Mounted Kit (System Sensor BEAMSMK).....	223.48	76.91
28 46 13 31-1958	EA			Two Wire, Photoelectric Smoke Detector (System Sensor 2W-B).....	204.76	57.68
28 46 13 31-1959	EA			Two Wire, Photoelectric Smoke Detector With Thermal Sensor (System Sensor 2WT-B).....	201.98	57.68
28 46 13 31-1960	EA			Two Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 2WTA-B).....	214.39	57.68
28 46 13 31-1961	EA			Four Wire, Photoelectric Smoke Detector (System Sensor 4W-B) .....	207.86	57.68
28 46 13 31-1962	EA			Four Wire, Photoelectric Smoke Detector With Thermal Sensor, 12/24 Volt DC (System Sensor 4WT-B).....	213.89	57.68
28 46 13 31-1963	EA			Four Wire, Photoelectric Smoke Detector With Thermal Sensor And Built In Sounder (System Sensor 4WTA-B) .....	219.21	57.68
28 46 13 31-1964	EA			Four Wire, Photoelectric Smoke Detector With Isolated Thermal Sensor, Built In Sounder, Form C Relay (System Sensor 4WITAR-B).....	288.86	57.68
28 46 13 31-1965	EA			Photoelectric, Low-Profile, Smoke Detector Head (System Sensor 2151) .....	170.09	38.46
28 46 13 31-1966	EA			Photoelectric With Thermal Sensor, Low-Profile, Smoke Detector Head (System Sensor 2151T).....	192.58	38.46
				Note: Requires B100 series base.		
28 46 13 31-1967	EA			Heavy Duty Multi-Mount Kit (System Sensor 6500-MMK) .....	326.61	19.22
28 46 13 31-1968	EA			Surface-Mount Kit For Use With Beam1224 And FSB-200 When Using 6500-MMK Heavy Duty Multi-Mount Kit (System Sensor 6500-SMK).....	114.96	19.22
28 46 13 31-1969	EA			Four Wire, Low Profile, Plug In Detector (System Sensor 2D51).....	227.57	57.68
<b>28 46 13 31-1970</b>				<b>Duct Smoke Detectors (28 46 13 31-1951)</b>		
28 46 13 31-1971	EA			Two Wire Conventional Photoelectric Duct Detector (Includes 2151 Detector) (System Sensor D2).....	427.32	57.68
28 46 13 31-1972	EA			Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120).....	423.75	57.68
28 46 13 31-1973	EA			Watertight, Four Wire Conventional Photoelectric Duct Detector (Includes 2D51 Detector) (System Sensor D4120W) .....	553.45	65.37
28 46 13 31-1974	EA			Sensor Only, Four Wire Conventional Photoelectric Duct Detector (System Sensor D4S) .....	279.33	38.46
28 46 13 31-1975	EA			Duct Accessory Coil (Required On DNR If A Remote Test Station Is Used) (System Sensor DCOIL).....	76.06	11.54
28 46 13 31-1976	EA			Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNR) .....	238.94	30.76
28 46 13 31-1977	EA			Watertight, Intelligent, Non-Relay, Duct Smoke Detector Housing (System Sensor DNRW) .....	385.30	38.46
28 46 13 31-1978	EA			1' Steel Sampling Tube (System Sensor DST1) .....	46.12	15.39
28 46 13 31-1979	EA			1.5' Steel Sampling Tube (System Sensor DST1.5) .....	50.17	15.39
28 46 13 31-1980	EA			3' Steel Sampling Tube (System Sensor DST3) .....	56.30	15.39
28 46 13 31-1981	EA			5' Steel Sampling Tube (System Sensor DST5) .....	66.66	19.22
28 46 13 31-1982	EA			10' Steel Sampling Tube (System Sensor DST10).....	105.57	23.07
28 46 13 31-1983	EA			1' Steel, Exhaust Tube Duct (System Sensor ETX).....	51.84	15.39
28 46 13 31-1984	EA			Remote Test Station For Duct Smoke Detector (System Sensor RTS151).....	114.66	19.22
28 46 13 31-1985	EA			Detector Installation/Removal Tool Kit For 700 Series Detectors (System Sensor XR2).....	238.74	
28 46 13 31-1986	EA			Detector Installation/Removal Tool Kit For 800 And 355 Series Detectors (System Sensor XR2B).....	256.60	
<b>28 46 13 31-1987</b>				<b>Heat Detectors (28 46 13 31-1951)</b>		
28 46 13 31-1988	EA			Single Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5601P).....	144.24	57.68
28 46 13 31-1989	EA			Single Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5602) .....	143.58	57.68
28 46 13 31-1990	EA			Dual Circuit, 135 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5621).....	164.77	57.68
28 46 13 31-1991	EA			Dual Circuit, 194 Degree F, Fixed And Rate-Of-Rise, Heat Detector (System Sensor 5622).....	164.77	57.68
28 46 13 31-1992	EA			Dual Circuit, 135 Degree F, Fixed Temperature Heat Detector (System Sensor 5623).....	172.99	57.68
28 46 13 31-1993	EA			Dual Circuit, 194 Degree F, Fixed Temperature Heat Detector (System Sensor 5624).....	172.99	57.68
<b>28 46 13 31-1994</b>				<b>Horns (28 46 13 31-1951)</b>		
28 46 13 31-1995	EA			Red, Mini Horn (System Sensor MHR).....	153.16	57.68
28 46 13 31-1996	EA			White, Mini Horn (System Sensor MHW).....	153.16	57.68
28 46 13 31-1997	EA			White, 12/24 Volt DC, Wall Mounted Horn Only (System Sensor HWL).....	155.01	57.68
28 46 13 31-1998	EA			Red, Outdoor, Wall Mounted Replacement Horn (System Sensor HRK-R).....	193.02	65.37
28 46 13 31-1999	EA			Red, Indoor, Wall Mounted, Horn (System Sensor HRL).....	155.01	57.68
28 46 13 31-2000	EA			Red, Outdoor, Wall Mounted, Horn (System Sensor HRK) .....	204.76	57.68
28 46 13 31-2001	EA			White, Indoor, Wall Mounted, Compact Horn (System Sensor HGRL).....	155.61	57.68
28 46 13 31-2002	EA			Red, Indoor, Wall Mounted, Compact Horn (System Sensor HGWL).....	155.61	57.68
<b>28 46 13 31-2003</b>				<b>Wall Mounted Horns/Strobes (28 46 13 31-1951)</b>		
28 46 13 31-2004	EA			Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL).....	204.66	57.68

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2005 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RH).....	247.09	57.68
28 46 13 31-2006 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK).....	297.45	65.37
28 46 13 31-2007 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-P).....	290.90	65.37
28 46 13 31-2008 EA Outdoor Backbox, Red, 120 Volt AC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2RHK-120).....	303.70	65.37
28 46 13 31-2009 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK).....	296.55	65.37
28 46 13 31-2010 EA Plain, Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-P).....	282.56	65.37
28 46 13 31-2011 EA Outdoor, Red, , Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RK-R).....	246.04	57.68
28 46 13 31-2012 EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2RL-P).....	200.50	57.68
28 46 13 31-2013 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL).....	204.66	57.68
28 46 13 31-2014 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH).....	248.70	57.68
28 46 13 31-2015 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK).....	288.52	65.37
28 46 13 31-2016 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WHK-P).....	290.90	65.37
28 46 13 31-2017 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P2WH-P).....	247.09	57.68
28 46 13 31-2018 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK).....	305.49	65.37
28 46 13 31-2019 EA Plain, Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WK-P).....	282.56	65.37
28 46 13 31-2020 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P2WL-P).....	199.60	57.68
28 46 13 31-2021 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RL).....	242.17	57.68
28 46 13 31-2022 EA Red, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4RH).....	254.28	57.68
28 46 13 31-2023 EA Outdoor Backbox, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK).....	293.05	65.37
28 46 13 31-2024 EA Outdoor, Red, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4RK-R).....	276.61	65.37
28 46 13 31-2025 EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WL).....	242.17	57.68
28 46 13 31-2026 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Horn/Strobe (System Sensor P4WHK).....	310.68	65.37
28 46 13 31-2027 EA Outdoor Backbox, White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Horn/Strobe (System Sensor P4WK).....	291.49	65.37
28 46 13 31-2028 EA Red, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2RL-LF).....	293.96	57.68
28 46 13 31-2029 EA White, 24 Volt DC, Low-frequency, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Horn/Strobe (System Sensor P2WL-LF).....	293.96	57.68
28 46 13 31-2030 EA Red, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GRL).....	204.07	57.68
28 46 13 31-2031 EA White, 12/24 Volt DC, Two Wire, Selectable Intensity (15, 30, 75, 95, 110, 135 And 185 Candela) Multi-Candela, Wall Mounted, Compact Horn Strobe (System Sensor P2GWL).....	204.07	57.68
<b>28 46 13 31-2032 Ceiling Mounted Horns/Strobes (28 46 13 31-1951)</b>		
28 46 13 31-2033 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RL).....	207.64	57.68
28 46 13 31-2034 EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RH).....	250.30	57.68
28 46 13 31-2035 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RHK).....	288.52	65.37
28 46 13 31-2036 EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2RK).....	280.78	65.37
28 46 13 31-2037 EA Plain, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2R-P).....	239.06	57.68
28 46 13 31-2038 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WL).....	207.64	57.68
28 46 13 31-2039 EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH).....	250.30	57.68
28 46 13 31-2040 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WHK).....	288.52	65.37
28 46 13 31-2041 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WH-P).....	250.30	57.68
28 46 13 31-2042 EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2WK).....	280.78	65.37
28 46 13 31-2043 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC2W-P).....	237.45	57.68
28 46 13 31-2044 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Horn/Strobe (System Sensor PC4RL).....	243.66	57.68
28 46 13 31-2045 EA Red, Ceiling Mounted, Four Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Horn/Strobe (System Sensor PC4RH).....	254.28	57.68



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	28 46 13 31-2046	EA White, Four Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Horn/Strobe (System Sensor PC4WL) .....	243.66	57.68
<b>28 46 13 31-2047</b>		<b>Wall Mounted Strobes</b> <small>(28 46 13 31-1951)</small>		
	28 46 13 31-2048	EA White Strobe Expander Plate Backbox Skirt (System Sensor SEP-BBSW) .....	91.92	19.22
	28 46 13 31-2049	EA White Strobe Expander Plate With Standard Candela (System Sensor SEP-SW) .....	172.12	19.22
	28 46 13 31-2050	EA Red, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL) .....	186.50	57.68
	28 46 13 31-2051	EA Red, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRH) .....	218.52	57.68
	28 46 13 31-2052	EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK) .....	264.17	65.37
	28 46 13 31-2053	EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK) .....	261.42	65.37
	28 46 13 31-2054	EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-P) .....	261.13	65.37
	28 46 13 31-2055	EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRK-R) .....	231.96	65.37
	28 46 13 31-2056	EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SRL-P) .....	185.02	57.68
	28 46 13 31-2057	EA White, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL) .....	185.91	57.68
	28 46 13 31-2058	EA White, Amber Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-ALERT) .....	199.90	57.68
	28 46 13 31-2059	EA White, Clear Lens, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-CLR-ALERT) .....	226.21	57.68
	28 46 13 31-2060	EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH) .....	235.85	57.68
	28 46 13 31-2061	EA White, Amber Lens, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-ALERT) .....	234.24	57.68
	28 46 13 31-2062	EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWH-P) .....	234.24	57.68
	28 46 13 31-2063	EA Red, Plain, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-P) .....	264.70	65.37
	28 46 13 31-2064	EA White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK) .....	262.02	65.37
	28 46 13 31-2065	EA White, Plain, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Strobe (System Sensor SWHK-P) .....	264.11	65.37
	28 46 13 31-2066	EA Red, Outdoor, Selectable Candela (135, 150, 177, 185 Candela) High-Candela, Wall Mounted Strobe (System Sensor SRHK-R) .....	254.45	65.37
	28 46 13 31-2067	EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK) .....	259.64	65.37
	28 46 13 31-2068	EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Strobe (System Sensor SWK-P) .....	260.83	65.37
	28 46 13 31-2069	EA White, Plain, 12/24 Volt DC, Selectable (15, 15 /75, 30, 75 , 110, 115 Candela) Multi-Candela, Wall Mounted Strobe (System Sensor SWL-P) .....	184.72	57.68
	28 46 13 31-2070	EA Amber, Wall Strobe Lens Attachment (System Sensor LENS-A) .....	31.76	7.69
	28 46 13 31-2071	EA Blue, Wall Strobe Lens Attachment (System Sensor LENS-B) .....	31.76	7.69
	28 46 13 31-2072	EA Green, Wall Strobe Lens Attachment (System Sensor LENS-G) .....	31.76	7.69
	28 46 13 31-2073	EA Red, Wall Strobe Lens Attachment (System Sensor LENS-R) .....	31.76	7.69
	28 46 13 31-2074	EA Red, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGRL) .....	188.89	57.68
	28 46 13 31-2075	EA White, 12/24 Volt DC, Wall Mounted, L-Series Compact Strobe (System Sensor SGWL) .....	185.61	57.68
	28 46 13 31-2076	EA L-Series, Amber, Wall Strobe Lens Attachment (System Sensor LENS-A2, AC2) .....	31.76	7.69
	28 46 13 31-2077	EA L-Series, Blue, Wall Strobe Lens Attachment (System Sensor LENS-B2, BC2) .....	31.76	7.69
	28 46 13 31-2078	EA L-Series, Green, Wall Strobe Lens Attachment (System Sensor LENS-G2, GC2) .....	31.76	7.69
	28 46 13 31-2079	EA L-Series, Red, Wall Strobe Lens Attachment (System Sensor LENS-R2, RC2) .....	31.76	7.69
	28 46 13 31-2080	EA Red, 8 Multi-tone, 12 VDC, 1575CD, Wall Mounted Strobe (Wheelock MT-121575W-FR) .....	265.19	57.68
	28 46 13 31-2081	EA White, 8 Multi-tone, 12 VDC, 1575CD, No Lettering, Wall Mounted Strobe (Wheelock MT-121575W-NW) .....	265.19	57.68
	28 46 13 31-2082	EA L-Series, White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-CLR-ALERT) .....	265.89	65.37
<b>28 46 13 31-2083</b>		<b>Ceiling Mounted Strobes</b> <small>(28 46 13 31-1951)</small>		
	28 46 13 31-2084	EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRL) .....	189.78	57.68
	28 46 13 31-2085	EA Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRH) .....	221.27	57.68
	28 46 13 31-2086	EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCRHK) .....	264.17	65.37
	28 46 13 31-2087	EA Outdoor Backbox, Red, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCRK) .....	264.17	65.37
	28 46 13 31-2088	EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWL) .....	189.78	57.68
	28 46 13 31-2089	EA Clear Lens, White, Two Wire, 12/24 Volt DC, Standard Candela, Ceiling Mounted Strobe (System Sensor SCWL-CLR-ALERT) .....	201.69	57.68
	28 46 13 31-2090	EA White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWH) .....	239.06	57.68
	28 46 13 31-2091	EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (135, 150, 177, 185 Candela) High-Candela, Ceiling Mounted Strobe (System Sensor SCWHK) .....	262.02	65.37
	28 46 13 31-2092	EA Outdoor Backbox, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCWK) .....	259.64	65.37

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2093 EA Plain, White, Two Wire, 12/24 Volt DC, Selectable Intensity (15, 15/75, 30, 75, 110, 115 Candela) Multi-Candela, Ceiling Mounted Strobe (System Sensor SCW-P).....	214.96	57.68
28 46 13 31-2094 EA Blue, Ceiling Strobe Lens Attachment (System Sensor LENS-BC).....	31.76	7.69
28 46 13 31-2095 EA Red, Ceiling Strobe Lens Attachment (System Sensor LENS-RC).....	31.76	7.69
28 46 13 31-2096 EA Green, Ceiling Strobe Lens Attachment (System Sensor LENS-GC).....	31.76	7.69
28 46 13 31-2097 EA Amber, Ceiling Strobe Lens Attachment (System Sensor LENS-AC).....	31.76	7.69
<b>28 46 13 31-2098 Wall Mounted Speakers</b> (28 46 13 31-1951)		
28 46 13 31-2099 EA 24 Volt DC, 4 Field Selectable Sound Pulse Patterns, Directional Sound Speaker With Voice And Integral Audio Amplifier (System Sensor PF24V).....	461.85	57.68
28 46 13 31-2100 EA Red, Wall Mounted Speaker (System Sensor SPRL).....	162.39	57.68
28 46 13 31-2101 EA Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK).....	249.31	57.68
28 46 13 31-2102 EA Red, Outdoor, Wall Mounted Speaker (System Sensor SPRK-R).....	212.91	65.37
28 46 13 31-2103 EA Red, High dB, Wall Mounted Speaker (System Sensor SPRV).....	184.13	57.68
28 46 13 31-2104 EA White, Wall Mounted Speaker (System Sensor SPWL).....	162.39	57.68
28 46 13 31-2105 EA White, Outdoor, Wall Mounted Speaker (System Sensor SPWK).....	263.51	65.37
28 46 13 31-2106 EA White, High dB, Wall Mounted Speaker (System Sensor SPWV).....	180.73	57.68
<b>28 46 13 31-2107 Ceiling Mounted Speakers</b> (28 46 13 31-1951)		
28 46 13 31-2108 EA Red, Ceiling Mounted Speaker (System Sensor SPCRL).....	159.12	57.68
28 46 13 31-2109 EA Outdoor, Ceiling Mounted Speaker (System Sensor SPCRK).....	239.84	57.68
28 46 13 31-2110 EA Red, High dB, Ceiling Mounted Speaker (System Sensor SPCRV).....	184.13	57.68
28 46 13 31-2111 EA White, Ceiling Mounted Speaker (System Sensor SPCWL).....	161.80	57.68
28 46 13 31-2112 EA White, High dB, Ceiling Mounted Speaker (System Sensor SPCWV).....	195.68	57.68
28 46 13 31-2113 EA White, Outdoor, Ceiling Mounted Speaker (System Sensor SPCWK).....	264.70	65.37
<b>28 46 13 31-2114 Wall Mounted Speakers/Strobes</b> (28 46 13 31-1951)		
28 46 13 31-2115 EA White Speaker Strobe Expander Plate With Standard Candela (System Sensor SEP-SPSWL).....	170.03	19.22
28 46 13 31-2116 EA White Speaker Strobe Expander Plate Backbox Skirt (System Sensor SPSEP-BBSWL).....	88.35	19.22
28 46 13 31-2117 EA Red, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL).....	252.29	57.68
28 46 13 31-2118 EA Red, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRH).....	270.78	57.68
28 46 13 31-2119 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK).....	356.32	65.37
28 46 13 31-2120 EA Red, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-P).....	356.39	65.37
28 46 13 31-2121 EA Red, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRK-R).....	306.97	65.37
28 46 13 31-2122 EA Red, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRL-P).....	249.61	57.68
28 46 13 31-2123 EA Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSRV).....	262.53	57.68
28 46 13 31-2124 EA White, Amber Lens, Wall Mounted, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-ALERT).....	253.48	57.68
28 46 13 31-2125 EA White, Clear Lens, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-CLR-ALERT).....	360.56	65.37
28 46 13 31-2126 EA White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL).....	252.29	57.68
28 46 13 31-2127 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH).....	296.89	57.68
28 46 13 31-2128 EA White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWH-P).....	296.89	57.68
28 46 13 31-2129 EA White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK).....	372.46	65.37
28 46 13 31-2130 EA White, Plain, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWK-P).....	355.20	65.37
28 46 13 31-2131 EA White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWL-P).....	248.42	57.68
28 46 13 31-2132 EA White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV).....	287.25	57.68
28 46 13 31-2133 EA White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Wall Mounted Speaker/Strobe (System Sensor SPSWV-P).....	287.25	57.68
<b>28 46 13 31-2134 Ceiling Mounted Speakers/Strobes</b> (28 46 13 31-1951)		
28 46 13 31-2135 EA Red, Selectable Candela ( 15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCRL).....	236.22	57.68
28 46 13 31-2136 EA Red, Selectable Candela ( 135, 150, 177, 185) Candela, High-Candela, Ceiling Mounted Speaker/Strobe (System Sensor SPCRH).....	273.54	57.68
28 46 13 31-2137 EA Red, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115), Ceiling Mounted Speaker/Strobe (System Sensor SPCRV).....	262.53	57.68
28 46 13 31-2138 EA White, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCWL).....	236.22	57.68
28 46 13 31-2139 EA White, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCWL-CLR-ALERT).....	251.10	57.68
28 46 13 31-2140 EA White, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPCWH).....	296.89	57.68



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2141	EA			White, Outdoor, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWHK).....	374.25	65.37
28 46 13 31-2142	EA			White, Plain, High-Candela, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWH-P).....	296.89	57.68
28 46 13 31-2143	EA			White, Outdoor, Clear Lens, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK-CLR-ALERT).....	361.15	65.37
28 46 13 31-2144	EA			White, Outdoor, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWK).....	372.46	65.37
28 46 13 31-2145	EA			White, Plain, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWL-P).....	236.22	57.68
28 46 13 31-2146	EA			White, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV).....	287.25	57.68
28 46 13 31-2147	EA			White, High-Candela/High dB, Selectable Candela (135, 150, 177, 185 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWVH).....	296.89	57.68
28 46 13 31-2148	EA			White, Plain, High dB, Selectable Candela (15, 15/75, 30, 75, 95, 110, 115 Candela), Ceiling Mounted Speaker/Strobe (System Sensor SPSCWV-P).....	287.25	57.68
28 46 13 31-2149	EA			High-Candela/High dB, Ceiling Mounted Speaker/Strobe (System Sensor SPSCRVH).....	296.66	57.68
<b>28 46 13 31-2150 Electric Alarm Bells (28 46 13 31-1951)</b>						
28 46 13 31-2151	EA			6" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-6).....	197.22	57.68
28 46 13 31-2152	EA			8" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-8).....	211.81	57.68
28 46 13 31-2153	EA			10" Diameter, 24 Volt DC Alarm Bell (System Sensor SSM24-10).....	227.88	57.68
28 46 13 31-2154	EA			6" 120 Volt AC Alarm Bell (System Sensor SSV120-6).....	206.93	58.45
28 46 13 31-2155	EA			8" 120 Volt AC Alarm Bell (System Sensor SSV120-8).....	209.05	58.45
28 46 13 31-2156	EA			10" 120 Volt AC Alarm Bell (System Sensor SSV120-10).....	222.43	58.45
<b>28 46 13 31-2157 Device Bases (28 46 13 31-1951)</b>						
28 46 13 31-2158	EA			High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base (System Sensor B200S).....	145.92	19.22
28 46 13 31-2159	EA			Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR).....	141.46	19.22
28 46 13 31-2160	EA			Intelligent Isolator Base (System Sensor B224BI).....	117.34	19.22
28 46 13 31-2161	EA			Intelligent Relay Base (System Sensor B224RB).....	118.53	19.22
28 46 13 31-2162	EA			Flangeless, Intelligent Detector Base (System Sensor B501).....	75.61	19.22
28 46 13 31-2163	EA			High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, Ivory (System Sensor B200S-IV).....	145.92	19.22
28 46 13 31-2164	EA			Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-IV).....	141.46	19.22
28 46 13 31-2165	EA			Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base (System Sensor B200SR-LF).....	208.73	19.22
28 46 13 31-2166	EA			Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, Ivory (System Sensor B200SR-LF-IV).....	208.73	19.22
28 46 13 31-2167	EA			Low-Frequency, Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-LF-WH).....	202.18	19.22
28 46 13 31-2168	EA			Code 3 Or Continuous Tone, Intelligent Plug-In Sounder Base, White (System Sensor B200SR-WH).....	150.59	19.22
28 46 13 31-2169	EA			High Or Low Volume Output, Code 3 Or 4, Continuous, March Or Custom Tone, Intelligent, Addressable, Programmable Plug-In Sounder Base, White (System Sensor B200S-WH).....	138.78	19.22
28 46 13 31-2170	EA			Intelligent Isolator Base, Ivory (System Sensor B224BI-IV).....	117.34	19.22
28 46 13 31-2171	EA			Intelligent Isolator Base, White (System Sensor B224BI-WH).....	110.20	19.22
28 46 13 31-2172	EA			Intelligent Relay Base, Ivory (System Sensor B224RB-IV).....	118.53	19.22
28 46 13 31-2173	EA			Intelligent Relay Base, White (System Sensor B224RB-WH).....	111.69	19.22
28 46 13 31-2174	EA			Flangeless, Intelligent Detector Base, Black (System Sensor B501-BL).....	75.61	19.22
28 46 13 31-2175	EA			Flangeless, Intelligent Detector Base, Ivory (System Sensor B501-IV).....	75.61	19.22
28 46 13 31-2176	EA			Flangeless, Intelligent Detector Base, White (System Sensor B501-WHITE).....	67.87	19.22
28 46 13 31-2177	EA			Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base (System Sensor B200S-LF).....	212.30	19.22
28 46 13 31-2178	EA			Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, Ivory (System Sensor B200S-LF-IV).....	212.30	19.22
28 46 13 31-2179	EA			Intelligent, Addressable, Programmable Low Frequency Plug-In Sounder Base, White (System Sensor B200S-LF-WH).....	204.56	19.22
28 46 13 31-2180	EA			6" Intelligent Flanged Mounting Base (System Sensor B300-6).....	60.79	19.22
28 46 13 31-2181	EA			6" Intelligent Flanged Mounting Base, Ivory (System Sensor B300-6-IV).....	68.23	19.22
28 46 13 31-2182	EA			Two Wire, Flanged, 12/24 Volt DC, Low-Profile, Adapter Base (System Sensor B110LP).....	64.97	19.22
28 46 13 31-2183	EA			Four Wire, Form A And C, 24 Volt DC Low-Profile, Adapter Base (System Sensor B112LP).....	124.06	23.07
<b>28 46 13 31-2184 Boxes, Plates And Decals (28 46 13 31-1951)</b>						
28 46 13 31-2185	EA			120 Volt AC, Mounting Plate, For Spectralert Advance Devices (System Sensor MP120K).....	68.47	19.22
28 46 13 31-2186	EA			Red, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBB).....	100.73	19.22
28 46 13 31-2187	EA			White, Ceiling Mounted, Metal, Weatherproof Backbox (System Sensor MWBBCW).....	109.31	19.22
28 46 13 31-2188	EA			White, Wall Mounted, Metal, Weatherproof Backbox (System Sensor MWBBW).....	100.73	19.22
28 46 13 31-2189	EA			Red Retrofit Plate (System Sensor RFP).....	47.12	11.54
28 46 13 31-2190	EA			White Retrofit Plate (System Sensor RFPW).....	46.76	11.54
28 46 13 31-2191	EA			Red, Wall Mounted, Weatherproof Backbox (System Sensor SA-WBB).....	85.85	19.22
28 46 13 31-2192	EA			Red, Ceiling Mounted, Weatherproof Backbox (System Sensor SA-WBBC).....	96.09	19.22
28 46 13 31-2193	EA			Red, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCL).....	69.18	19.22
28 46 13 31-2194	EA			White, Ceiling Mounted, Surface Mounted, Backbox (System Sensor SBBCLW).....	69.18	19.22
28 46 13 31-2195	EA			Red, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBRL).....	60.49	19.22
28 46 13 31-2196	EA			Red, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPRL).....	67.04	19.22
28 46 13 31-2197	EA			White, Wall Mounted, Surface Mounted, Backbox For Speaker (System Sensor SBBSPWL).....	67.04	19.22
28 46 13 31-2198	EA			White, Wall Mounted, Surface Mounted, Backbox (System Sensor SBBWL).....	60.49	19.22
28 46 13 31-2199	EA			Surface Mounted Box For Intelligent Control Or Monitor Modules (System Sensor SMB500).....	64.16	19.22
28 46 13 31-2200	EA			Surface Mounted Box For 400 And 500 Series Detectors And Sounder Bases (System Sensor SMB600).....	60.79	19.22
28 46 13 31-2201	EA			Red, Wall Mounted Horn/Strobe Trim Ring (System Sensor TR-HS).....	22.20	7.69



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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28 46	13 31-2202	EA	Red Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-R).....	32.00	
28 46	13 31-2203	EA	Red Decals, Three Pack, Spectralert Advance Ceiling Products (System Sensor DECAL-RC).....	44.22	
28 46	13 31-2204	EA	White Decals, Two Pack, Spectralert Advance Wall Products (System Sensor DECAL-W).....	32.00	
28 46	13 31-2205	EA	White Decals, Three Pack, Spectralert Advance Wall Products (System Sensor DECAL-WC).....	44.22	
28 46	13 31-2206	EA	Red, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2).....	24.37	7.69
28 46	13 31-2207	EA	White, Wall Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TR-2W).....	24.37	7.69
28 46	13 31-2208	EA	Red, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2).....	24.37	7.69
28 46	13 31-2209	EA	White, Ceiling Mounted, L-Series Trim Ring, Pack Of 5 (System Sensor TRC-2W).....	24.37	7.69
28 46	13 31-2210	EA	Red, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGRL).....	60.49	19.22
28 46	13 31-2211	EA	White, Wall/Surface Mounted, L-Series Compact Back Box (System Sensor SBBGWL).....	60.49	19.22
28 46	13 31-2212	EA	Red, AGENT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AG).....	29.08	7.69
28 46	13 31-2213	EA	Red, ALERT Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-AL).....	29.08	7.69
28 46	13 31-2214	EA	Red, EVAC Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-EV).....	29.08	7.69
28 46	13 31-2215	EA	Red, FIRE Lettering, Compact, L-Series Wall Mounted Bezel (System Sensor BZGR-F).....	29.08	7.69
28 46	13 31-2216	EA	White, AGENT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AG).....	29.08	7.69
28 46	13 31-2217	EA	White, ALERT Lettering, L-Series Wall Mounted Bezel (System Sensor BZGW-AL).....	29.08	7.69
28 46	13 31-2218	EA	White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-EV).....	29.08	7.69
28 46	13 31-2219	EA	White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZGW-F).....	29.08	7.69
28 46	13 31-2220	EA	Red, Plain, L-Series Wall Mounted Bezel (System Sensor BZGR-P).....	29.08	7.69
28 46	13 31-2221	EA	White, Plain, L-Series Wall Mounted Bezel (System Sensor BZGW-P).....	29.08	7.69
28 46	13 31-2222	EA	Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG).....	29.08	7.69
28 46	13 31-2223	EA	Red, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AL).....	29.08	7.69
28 46	13 31-2224	EA	Red, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AG).....	31.58	7.69
28 46	13 31-2225	EA	Red, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-AL).....	31.58	7.69
28 46	13 31-2226	EA	Red, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-EV).....	31.58	7.69
28 46	13 31-2227	EA	Red, FIRE Marking, L-Series Ceiling Mounted Bezel, Pack Of 5 (System Sensor BZRC-F).....	31.58	7.69
28 46	13 31-2228	EA	Red, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZRC-P).....	31.58	7.69
28 46	13 31-2229	EA	Red, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZR-EV).....	29.08	7.69
28 46	13 31-2230	EA	Red, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZR-F).....	29.08	7.69
28 46	13 31-2231	EA	Red, PLAIN Marking, L-Series Wall Mounted Bezel (System Sensor BZR-P).....	29.08	7.69
28 46	13 31-2232	EA	Red, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZR-AG).....	29.08	7.69
28 46	13 31-2233	EA	White, AGENT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AG).....	29.08	7.69
28 46	13 31-2234	EA	White, ALERT Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-AL).....	29.08	7.69
28 46	13 31-2235	EA	White, AGENT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AG).....	31.58	7.69
28 46	13 31-2236	EA	White, ALERT Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-AL).....	31.58	7.69
28 46	13 31-2237	EA	White, EVAC Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-EV).....	31.58	7.69
28 46	13 31-2238	EA	White, FIRE Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-F).....	31.58	7.69
28 46	13 31-2239	EA	White, PLAIN Marking, L-Series Ceiling Mounted Bezel (System Sensor BZSPWC-P).....	31.58	7.69
28 46	13 31-2240	EA	White, EVAC Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-EV).....	29.08	7.69
28 46	13 31-2241	EA	White, FIRE Marking, L-Series Wall Mounted Bezel (System Sensor BZSPW-F).....	29.08	7.69
28 46	13 31-2242	EA	Replacement Dust Cover For Low Profile Detectors (System Sensor C58-227-01).....	5.30	
28 46	13 31-2243	EA	Control Module Barrier (System Sensor CB500).....	43.55	11.54
28 46	13 31-2244	EA	White Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300).....	40.34	11.54
28 46	13 31-2245	EA	Black Detector Conversion Kit For SSD Intelligent Low Profile Photo, Ion, And Laser Detectors (System Sensor CK300-BL).....	48.02	11.54
28 46	13 31-2246	EA	PTIR Color Kit, White (System Sensor CK-300-IR).....	170.72	11.54
			Note: Includes cover and trim ring		
28 46	13 31-2247	EA	PTIR Color Kit, Black (System Sensor CK-300-IR-BL).....	246.33	11.54
			Note: Includes cover and trim ring		
28 46	13 31-2248	EA	PTIR Color Kit, Ivory (System Sensor CK-300-IR-IV).....	246.33	11.54
			Note: Includes cover and trim ring		
28 46	13 31-2249	EA	Accessory Flange Ring For B210LP Base (System Sensor F210).....	33.61	11.54
			Note: Includes cover and trim ring		
28 46	13 31-2250	EA	Black Faceplate (System Sensor FP-BLACK-BP).....	32.74	11.54
28 46	13 31-2251	EA	White Faceplate, 2 In/2 Out (System Sensor FP-WHITE-2-BP).....	33.19	11.54
28 46	13 31-2252	EA	White Faceplate (System Sensor FP-WHITE-BP).....	31.73	11.54
28 46	13 31-2253	EA	White, Back Box (System Sensor SMB500-WH).....	57.69	19.22
28 46	13 31-2254	EA	Accessory Flange Ring For B210LP Base, White (System Sensor TR300).....	22.83	7.69
28 46	13 31-2255	EA	Accessory Flange Ring For B210LP Base, Ivory (System Sensor TR300-IV).....	31.52	7.69
28 46	13 31-2256	EA	White Faceplate Swift (System Sensor FP-WHITE-SWIFT-BP).....	34.59	11.54
28 46	13 31-2257	EA	Red, ALERT Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-AL).....	29.08	7.69
28 46	13 31-2258	EA	Red, AGENT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AG).....	31.58	7.69
28 46	13 31-2259	EA	Red, ALERT Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-AL).....	31.58	7.69
28 46	13 31-2260	EA	Red, EVAC Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-EV).....	31.58	7.69
28 46	13 31-2261	EA	Red, FIRE Marking, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-F).....	31.58	7.69
28 46	13 31-2262	EA	Red, Plain, L-Series Ceiling Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPRC-P).....	31.58	7.69
28 46	13 31-2263	EA	Red, EVAC Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-EV).....	29.08	7.69
28 46	13 31-2264	EA	Red, FIRE Marking, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-F).....	29.08	7.69
28 46	13 31-2265	EA	Red, Plain, L-Series Wall Mounted Bezel For Speakers And Speaker Strobes (System Sensor BZSPR-P).....	29.08	7.69
28 46	13 31-2266	EA	L Series, 120 VAC Adapter Mounting Plate (System Sensor MP120KL).....	86.33	19.22
28 46	13 31-2267	EA	White, Amber Lens, Universal Expander Plate (System Sensor SEP-SPSWL-P).....	164.97	19.22

28 46 13 31-2268 Chimes (28 46 13 31-1951)





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2269 EA Red, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHRL) .....	185.03	57.68
28 46 13 31-2270 EA White, 12/24 Volt DC, Ceiling Or Wall Mounted Chime (System Sensor CHWL) .....	190.97	57.68
<b>28 46 13 31-2271 Chime/Strobes</b> <small>(28 46 13 31-1951)</small>		
28 46 13 31-2272 EA Red, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSRL) .....	270.15	57.68
28 46 13 31-2273 EA White, 15, 15/75, 30, 75, 110 Multi-Candela, 24 Volt DC, Ceiling Or Wall Mounted Chime/Strobe (System Sensor CHSWL) .....	270.15	57.68
28 46 13 31-2274 EA L-Series, Red, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHSCL) .....	271.94	57.68
28 46 13 31-2275 EA L-Series, White, 15, 30, 75, 95, 115, 150, 177 Multi-Candela, 24 Volt DC, Ceiling Mounted Chime/Strobe (System Sensor CHCWL) .....	271.94	57.68
<b>28 46 13 31-2276 Carbon Monoxide Detectors</b> <small>(28 46 13 31-1951)</small>		
28 46 13 31-2277 EA Conventional Carbon Monoxide Detector (System Sensor CO1224) .....	327.81	76.91
28 46 13 31-2278 EA Round, Sounder And Trouble Relay With Test Function, 12/24 Volt DC, Conventional Carbon Monoxide Detector (System Sensor CO1224TR) .....	267.77	57.68
28 46 13 31-2279 EA CO Detector Plate For Replacing Round CO Detectors With The CO1224T (System Sensor CO-PLATE) .....	22.58	7.69
28 46 13 31-2280 EA Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan (System Sensor FCO-951) .....	392.79	57.68
28 46 13 31-2281 EA 12/24 VDC, Conventional Carbon Monoxide Detector With Sounder And Trouble Relay With Test Function, UL2075 Listed (System Sensor CO1224T) .....	306.23	76.91
28 46 13 31-2282 EA Intelliquad Plus Intelligent Addressable Combination Multi-Criteria Fire And Carbon Monoxide Detector With Flashscan, Ivory (System Sensor FCO-951-IV) .....	405.89	57.68
<b>28 46 13 31-2283 Switches</b> <small>(28 46 13 31-1951)</small>		
28 46 13 31-2284 EA SPDT Switch, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-1) .....	237.75	30.76
28 46 13 31-2285 EA Two SPDT Switches, 4 - 20 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS10-2) .....	264.54	30.76
28 46 13 31-2286 EA SPDT Switch, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-1) .....	237.75	30.76
28 46 13 31-2287 EA Two SPDT Switches, 10 - 100 PSI, Waterflow Alarm Pressure Switch (System Sensor EPS40-2) .....	264.54	30.76
28 46 13 31-2288 EA Outside Screw And Yoke Valve, Two SPDT, Supervisory Switch (System Sensor OSY2) .....	247.28	30.76
28 46 13 31-2289 EA Post Indicator Butterfly Valve, SPDT, Supervisory Switch (System Sensor PIBV2) .....	231.80	30.76
<b>28 46 13 31-2290 Low Frequency Sounders</b> <small>(28 46 13 31-1951)</small>		
28 46 13 31-2291 EA Red, Low Frequency Sounder (System Sensor HR-LF) .....	240.67	57.68
28 46 13 31-2292 EA White, Low Frequency Sounder (System Sensor HW-LF) .....	240.67	57.68
28 46 13 31-2293 EA Red, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCRL-LF) .....	224.01	57.68
28 46 13 31-2294 EA White, Ceiling Mounted, Low-frequency Compact Sounder (System Sensor HCWL-LF) .....	224.01	57.68
28 46 13 31-2295 EA Red, Wall Mounted, Low-frequency Compact Sounder (System Sensor HGRL-LF) .....	222.52	57.68
28 46 13 31-2296 EA White, Wall Mounted, Low-frequency Compact Sounder (HGWL-LF) .....	222.52	57.68
<b>28 46 13 31-2297 Sync Modules</b> <small>(28 46 13 31-1951)</small>		
28 46 13 31-2298 EA Red, 12/24 Volt DC, Sync Module (System Sensor MDL3R) .....	193.00	38.46
28 46 13 31-2299 EA White, 12/24 Volt DC, Sync Module (System Sensor MDL3W) .....	190.03	38.46
<b>28 46 13 31-2300 Relays</b> <small>(28 46 13 31-1951)</small>		
28 46 13 31-2301 EA Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10E) .....	111.78	30.76
28 46 13 31-2302 EA SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-10T) .....	71.92	19.22
28 46 13 31-2303 EA 4-Gang Relay, Metal Enclosure, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14E) .....	199.20	19.22
28 46 13 31-2304 EA 4-Gang Relay, SPDT, Track Mounted, Multivoltage, Relay (System Sensor R-14T) .....	148.00	19.22
28 46 13 31-2305 EA Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20E) .....	119.76	30.76
28 46 13 31-2306 EA DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-20T) .....	74.06	19.22
28 46 13 31-2307 EA 4-Gang Relay, Metal Enclosure, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24E) .....	223.61	19.22
28 46 13 31-2308 EA 4-Gang Relay, DPDT, Track Mounted, Multivoltage, Relay (System Sensor R-24T) .....	168.54	19.22
28 46 13 31-2309 EA 18 To 35 Volt DC, 18 To 35 Volt AC, 120 Volt AC, SPDT Multivoltage Relay (System Sensor PR-1) .....	63.23	19.22
28 46 13 31-2310 EA 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-2) .....	63.23	19.22
28 46 13 31-2311 EA Redundant Power Input, 10 To 40 Volt DC, SPDT Multivoltage Relay (System Sensor PR-3) .....	63.23	19.22
<b>28 46 13 31-2312 Remote Annunciator</b> <small>(28 46 13 31-1951)</small>		
28 46 13 31-2313 EA Remote Annunciator (System Sensor RA100Z) .....	152.87	57.68
28 46 13 31-2314 EA Remote LED Annunciator (System Sensor RA100ZA) .....	146.50	57.68
28 46 13 31-2315 EA Remote Annunciator With Piezo Alarm (System Sensor APA151) .....	176.97	57.68
<b>28 46 13 31-2316 Remote Test Station</b> <small>(28 46 13 31-1951)</small>		
28 46 13 31-2317 EA Remote Test Station With Key (System Sensor RTS151KEY) .....	230.26	57.68
<b>28 46 13 31-2318 Fire Alarm Digital Cellular Communicator</b> <small>(28 46 13 31)</small>		
28 46 13 31-2319 EA Digital Cellular Communicator With Antenna And Red Enclosure (Telular Telguard TG-7FS) .....	784.03	76.91
<b>28 46 13 31-2320 Wheelock Fire Alarm</b> <small>(28 46 13 31)</small>		

**28 Electronic Safety and Security**

**28 40 Life Safety**

**28 46 Fire Detection and Alarm**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-2321		<b>Ceiling Mounted Chimes/Strobes</b> (28 46 13 31-2320)		
	28 46 13 31-2322	EA	White, Round, Selectable Candela (15, 30, 75, 100 Candela), 24 Volt DC, Ceiling Mounted Chime/Strobe (Wheelock CH90-24MCC-FW).....	293.90	57.68
28 46	13 31-2323		<b>Wall Mounted Chimes/Strobes</b> (28 46 13 31-2320)		
	28 46 13 31-2324	EA	Red, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FR).....	293.90	57.68
	28 46 13 31-2325	EA	White, Selectable Candela (15, 30, 75, 110 Candela), 24 Volt DC, Wall Mounted Chime/Strobe (Wheelock CH70-24MCW-FW).....	293.90	57.68
28 46	13 31-2326		<b>Ceiling Mounted Horns/Strobes</b> (28 46 13 31-2320)		
	28 46 13 31-2327	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSRC).....	197.45	57.68
	28 46 13 31-2328	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Horn/Strobe (Wheelock HSWC).....	224.31	57.68
28 46	13 31-2329		<b>Wall Mounted Horns/Strobes</b> (28 46 13 31-2320)		
	28 46 13 31-2330	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted, Horn/Strobe (Wheelock ASWP-2475W-FR).....	201.27	57.68
	28 46 13 31-2331	EA	Red, 24 Volt DC, 15/75 Candela, Continuous Or Code 3 Tone, Wall Mounted Horn/Strobe (Wheelock HS4-241575 Watt-FR).....	298.50	57.68
	28 46 13 31-2332	EA	Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR).....	265.98	57.68
	28 46 13 31-2333	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW).....	265.98	57.68
	28 46 13 31-2334	EA	Red, Flush, 24 Volt AC, 15/75 Candela, Sync/Non-Sync, Wall Mounted Horn/Strobe (Wheelock MT-241575 Watt-FR).....	284.04	57.68
	28 46 13 31-2335	EA	Red, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FR).....	223.02	57.68
	28 46 13 31-2336	EA	Red, 115 Volt AC, Wall Mounted Horn/Strobe (Wheelock MT4-115-WH-VFR).....	220.78	57.68
	28 46 13 31-2337	EA	Red, Weatherproof, 24 Volt DC, 75 Candela, Wall Mounted Horn/Strobe (Wheelock MTWP-2475W-FR).....	244.24	65.37
	28 46 13 31-2338	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSR).....	200.37	57.68
	28 46 13 31-2339	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock HSW).....	200.37	57.68
	28 46 13 31-2340	EA	White, 24 Volt AC, Multi-Candela, Wall Mounted Horn/Strobe (Wheelock MT-24MCW-FW).....	219.88	57.68
	28 46 13 31-2341	EA	Red, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FR).....	265.98	57.68
	28 46 13 31-2342	EA	White, 24 Volt DC, 15/30/75/110 Selectable Candela, Wall Mounted Horn/Strobe (Wheelock HS4-24MCW-FW).....	265.98	57.68
28 46	13 31-2343		<b>Ceiling Mounted Strobes</b> (28 46 13 31-2320)		
	28 46 13 31-2344	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FR).....	189.38	57.68
	28 46 13 31-2345	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe (Wheelock RSS-24MCC-FW).....	189.38	57.68
	28 46 13 31-2346	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STRC).....	204.66	57.68
	28 46 13 31-2347	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Ceiling Mounted Strobe (Wheelock STWC).....	182.65	57.68
	28 46 13 31-2348	EA	White, 24 Volt DC, Amber Lens, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, No Lettering (Wheelock RSSA-24MCC-NW).....	201.04	57.68
	28 46 13 31-2349	EA	White, 24 Volt DC, Amber Lens, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe, Red ALERT Lettering (Wheelock RSSA-24MCC-ALW).....	202.61	57.68
	28 46 13 31-2350	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Strobe With Fire Lettering (Wheelock RSS-24MCC-FW).....	203.28	57.68
	28 46 13 31-2351	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Weatherproof Strobe With Fire Lettering (Wheelock RSSWP-2475C-FR).....	213.89	57.68
28 46	13 31-2352		<b>Wall Mounted Strobes</b> (28 46 13 31-2320)		
	28 46 13 31-2353	EA	Red, Multi-Candela, 24 Volt DC, Wall Mounted Strobe (Wheelock AMT-24MCW-FR).....	277.30	57.68
	28 46 13 31-2354	EA	Red, Retrofit Plate, 12 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSSP-121575W-FR).....	226.61	57.68
	28 46 13 31-2355	EA	Red, 24 Volt DC, 15/75 Candela, Wall Mounted Strobe (Wheelock RSS-241575W-FR).....	242.27	57.68
	28 46 13 31-2356	EA	Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FR).....	187.58	57.68
	28 46 13 31-2357	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSS-24MCW-FW).....	187.58	57.68
	28 46 13 31-2358	EA	Red, Retrofit Plate, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Wall Mounted Strobe (Wheelock RSSP-24MCW-FR).....	199.25	57.68
	28 46 13 31-2359	EA	Outdoor, Red, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FR)..... Note: Requires WPSBB-R.	209.70	65.37
	28 46 13 31-2360	EA	Red, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STR).....	183.77	57.68
	28 46 13 31-2361	EA	White, Two Wire, 12/24 Volt DC, Multi-Candela, Wall Mounted Strobe (Wheelock STW).....	183.77	57.68
	28 46 13 31-2362	EA	Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCH-NW).....	214.95	57.68
	28 46 13 31-2363	EA	White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Wall Mounted Strobe, No Lettering (Wheelock RSS-24MCW-NW).....	189.60	57.68
	28 46 13 31-2364	EA	Weatherproof, White, 24 Volt DC, 75 Candela, Wall Mounted Strobe (Wheelock RSSWP-2475W-FW)..... Note: Requires WPSBB-R.	233.15	65.37
	28 46 13 31-2365	EA	Interior, White, 24 Volt DC, Multi-Candela 135/185, Weatherproof Wall Mounted Strobe (Wheelock RSSWP-24MCH-FW).....	228.18	57.68
28 46	13 31-2366		<b>Ceiling Mounted Speakers/Strobes</b> (28 46 13 31-2320)		
	28 46 13 31-2367	EA	Red, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	226.61	57.68
	28 46 13 31-2368	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	226.61	57.68
	28 46 13 31-2369	EA	White, 24 Volt DC, Selectable Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-FW).....	226.61	57.68



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2370	EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	228.85	57.68
28 46 13 31-2371	EA White, 24 Volt DC, Multi-Candela 115/177, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FW).....	241.42	57.68
28 46 13 31-2372	EA White, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FW).....	258.91	57.68
28 46 13 31-2373	EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 95 Candela), Ceiling Mounted Speaker/Strobe (Wheelock ET90-24MCC-FR).....	258.91	57.68
28 46 13 31-2374	EA Red, 24 Volt DC, Multi-Candela (15, 30, 75, 110 Candela), Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-FR).....	230.65	57.68
28 46 13 31-2375	EA White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Square, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E70-24MCC-NW).....	254.08	57.68
28 46 13 31-2376	EA Round, 2 Watt, 24 Volt DC, 15/30/75/95CD, No Lettering, Ceiling Mounted Speaker/Strobe (Wheelock E90-24MCC-NW).....	268.36	57.68
28 46 13 31-2377	EA White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Ceiling Mounted, Speaker/Strobe (Wheelock ET70WP-2475C-FW).....	282.65	57.68
<b>28 46 13 31-2378</b>	<b>Wall Mounted Speakers/Strobes</b> <small>(28 46 13 31-2320)</small>		
28 46 13 31-2379	EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FR).....	325.81	57.68
28 46 13 31-2380	EA White, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E50-241575 Watt-FW).....	325.81	57.68
28 46 13 31-2381	EA Red, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FR).....	241.42	57.68
28 46 13 31-2382	EA White, 24 Volt DC, Multi-Candela 115/177, Wall Mounted Speaker/Strobe (Wheelock E60-24MCC-FW).....	241.42	57.68
28 46 13 31-2383	EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FR).....	226.61	57.68
28 46 13 31-2384	EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E50-24MCW-FW).....	223.02	57.68
28 46 13 31-2385	EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FR).....	241.42	57.68
28 46 13 31-2386	EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E50-24MCWH-FW).....	241.42	57.68
28 46 13 31-2387	EA Red, Square, 24 Volt DC, 15/75 Candela, 25/70.7 VRMS, Wall Mounted Speaker/Strobe (Wheelock E70-241575 Watt-FR).....	322.60	57.68
28 46 13 31-2388	EA Red, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FR).....	228.85	57.68
28 46 13 31-2389	EA White, Square, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock E70-24MCW-FW).....	227.06	57.68
28 46 13 31-2390	EA Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR).....	315.37	57.68
28 46 13 31-2391	EA White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	322.60	57.68
28 46 13 31-2392	EA Red, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FR).....	258.91	57.68
28 46 13 31-2393	EA White, 24 Volt DC, Selectable Candela 15/30/75/110, Wall Mounted Speaker/Strobe (Wheelock ET70-24MCW-FW).....	258.91	57.68
28 46 13 31-2394	EA Weatherproof, Red, 24 Volt DC, 75 Candela, Wall Mounted Speaker Strobe (Wheelock ET70WP-2475 W-FR)..... Note: Requires weatherproof backbox (IOB).	351.64	65.37
28 46 13 31-2395	EA Interior, Red, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FR).....	210.01	57.68
28 46 13 31-2396	EA Interior, White, 24 Volt DC, Multi-Candela 135/185, Wall Mounted Speaker/Strobe (Wheelock RSS-24MCWH-FW).....	203.28	57.68
28 46 13 31-2397	EA White, 2 Watts, 24 Volt DC, 15/30/75/95 Candela, Round, Wall Mounted Speaker/Strobe (Wheelock E60-24MCW-FW).....	268.36	57.68
28 46 13 31-2398	EA Red, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FR).....	282.65	57.68
28 46 13 31-2399	EA White, 24 Volt DC, 135/185 Multi-Candela, Wall Mounted Speaker/Strobe (Wheelock E70-24MCWH-FW).....	288.01	57.68
28 46 13 31-2400	EA White, 8 Watt, 24 VDC, 15/30/75/110 Candela, No Lettering, Wall Mounted, Speaker/Strobe (Wheelock ET70-24MCW-NW).....	296.94	57.68
28 46 13 31-2401	EA Red, 8 Watts, Weatherproof, 185 Candela, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-24185W-FR).....	303.49	57.68
28 46 13 31-2402	EA Red, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FR)..... Note: Requires IOB	299.32	57.68
28 46 13 31-2403	EA White, 8 Watts, 24 Volt DC, 75 Candela, Weatherproof, Wall Mounted, Speaker/Strobe (Wheelock ET70WP-2475W-FW)..... Note: Requires IOB	296.94	57.68
<b>28 46 13 31-2404</b>	<b>Electric Alarm Bells</b> <small>(28 46 13 31-2320)</small>		
28 46 13 31-2405	EA 6" Diameter, 24 Volt DC, Red, Vibrating Bell (Wheelock 43T-G6-24-R).....	221.23	57.68
28 46 13 31-2406	EA 6" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G6-115-R).....	214.05	57.68
28 46 13 31-2407	EA 10" Diameter, 115 Volt AC, Red, Vibrating Bell (Wheelock 43T-G10-115-R).....	262.05	57.68
28 46 13 31-2408	EA 10" Diameter, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSX10-115-R).....	1,921.54	65.37
28 46 13 31-2409	EA 10" Diameter, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CSXG10-115-R).....	3,091.48	65.37
28 46 13 31-2410	EA 10" Diameter, Vibrating, Outdoor, 115 Volt AC, Single Stroke, Red, Explosion Proof Bell (Wheelock CVXG10-115-R).....	3,303.55	65.37
28 46 13 31-2411	EA 6", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G6-24-R).....	180.63	57.68
28 46 13 31-2412	EA 10", ADA, 24 Volt DC, Red, Motor Bell (Wheelock MB-G10-24-R).....	239.19	57.68
28 46 13 31-2413	EA 6", ADA, 12 Volt DC, Red, Motor Bell (Wheelock MB-G6-12-R).....	183.32	57.68
28 46 13 31-2414	EA 10", ADA, 12 Volt DC, Red, Indoor/Outdoor Motor Bell (Wheelock MB-G10-12-R).....	237.11	57.68
<b>28 46 13 31-2415</b>	<b>Horns</b> <small>(28 46 13 31-2320)</small>		
28 46 13 31-2416	EA Two Wire, 24 Volt DC, Indoor Or Outdoor, Continuous Or Code 3, Sync Or Non-Sync Horn (Wheelock AH-24WP-R).....	179.62	57.68
28 46 13 31-2417	EA Red, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNR).....	155.37	57.68
28 46 13 31-2418	EA White, Two Wire, 12/24 Volt DC, Wall Mounted Horn (Wheelock HNW).....	155.37	57.68
28 46 13 31-2419	EA Red, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNR).....	156.36	57.68
28 46 13 31-2420	EA White, Two Wire, 12/24 Volt DC, Ceiling Mounted Horn (Wheelock HNW).....	156.36	57.68
28 46 13 31-2421	EA Red, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-R).....	139.76	57.68
28 46 13 31-2422	EA White, 24 Volt DC, Sync With Built-In Temporal, Mini-Horn (Wheelock MIZ-24S-W).....	139.76	57.68

**28 Electronic Safety and Security**

**28 40 Life Safety**

**28 46 Fire Detection and Alarm**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46	13 31-2423	EA	Red, Flush, 12/24 Volt AC, Horn (Wheelock MT-12/24-R).....	156.36	57.68
28 46	13 31-2424	EA	Red, 24 Volt DC, Four Wire, Wall Mounted Horn (Wheelock HS-24-R).....	183.23	57.68
<b>28 46 13 31-2425 Speakers (28 46 13 31-2320)</b>					
28 46	13 31-2426	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-R).....	159.23	57.68
28 46	13 31-2427	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Mounted Speaker (Wheelock E50-W).....	159.23	57.68
28 46	13 31-2428	EA	Red, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-R).....	159.23	57.68
28 46	13 31-2429	EA	White, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Ceiling Mounted Speaker (Wheelock E60-W).....	157.26	57.68
28 46	13 31-2430	EA	Red, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-R).....	159.23	57.68
28 46	13 31-2431	EA	White, Flush, Square, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E70-W).....	159.23	57.68
28 46	13 31-2432	EA	Red, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-R).....	159.23	57.68
28 46	13 31-2433	EA	White, Round, 25 Or 70.7 VRMS, 1/8 To 2 Watt, Wall Or Ceiling Mounted Speaker (Wheelock E90-W).....	159.23	57.68
28 46	13 31-2434	EA	Red, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-R).....	180.85	57.68
28 46	13 31-2435	EA	White, Flush Or Surface, Square, 1/8 - 8 Watt, Wall Mounted Speaker (Wheelock ET70-W).....	180.85	57.68
28 46	13 31-2436	EA	White, Round, 25 Or 70.7 VRMS, 1/8 - 8 Watt Ceiling Mounted Speaker (Wheelock ET90-W).....	182.65	57.68
28 46	13 31-2437	EA	Red, Surface Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1010-R).....	238.60	57.68
28 46	13 31-2438	EA	Red, Flush Mounted, Vandal Resistant, Square, 1/8 - 8 Watt, Wall Or Ceiling Mounted Speaker (Wheelock ET-1080-R).....	217.76	57.68
28 46	13 31-2439	EA	Grey, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15S).....	321.71	57.68
28 46	13 31-2440	EA	Red, 1 To 15 Watt, 25/70/100 Volt Transformer, Loud Speaker (Wheelock STH-15SR).....	321.71	57.68
28 46	13 31-2441	EA	Red, 1/8 To 8 Watts, Square, Surface Mounted, Vandal Resistant Speaker (Wheelock ET-1010-R).....	238.60	57.68
28 46	13 31-2442	EA	White, 8 Watts, Wall/Ceiling Mounted, Vandal Resistant Speaker (Wheelock ET-1010-W).....	240.98	57.68
28 46	13 31-2443	EA	Red, 1/8 To 8 Watts, Square, Flush Mounted, Vandal Resistant Speaker (Wheelock ET-1080-R).....	217.76	57.68
28 46	13 31-2444	EA	White, 8", 25/70 Volt, 15/30/75/95 Candela, Round, Ceiling Mounted, Speaker (Wheelock S8-24MCC-FW).....	312.42	57.68
28 46	13 31-2445	EA	White, 8", 25/70 Volt, Round, Ceiling Mounted, Speaker (Wheelock S8-70/25).....	232.05	57.68
<b>28 46 13 31-2446 Sync Modules (28 46 13 31-2320)</b>					
28 46	13 31-2447	EA	12 Or 24 Volt DC, Single Circuit Class B, Sync Module (Wheelock SM-12/24-R).....	202.22	38.46
<b>28 46 13 31-2448 Boxes, Plates And Rings (28 46 13 31-2320)</b>					
28 46	13 31-2449	EA	4" Square, Red, Surface Backbox (Wheelock BB-R).....	48.28	19.22
28 46	13 31-2450	EA	Standard 4" Square Box (Wheelock BB-STD).....	47.75	19.22
28 46	13 31-2451	EA	Black, Backbox For UZC-256 (Wheelock BB-UZC).....	269.21	38.46
28 46	13 31-2452	EA	Red, Backbox For UZC-256 (Wheelock BB-UZC-R).....	269.21	38.46
28 46	13 31-2453	EA	9" x 12" x 2.75", For Two XP Boards, Surface Mounted Cabinet (Wheelock BB-XP).....	207.99	30.76
28 46	13 31-2454	EA	Red, Extender Ring For E60 Series (Wheelock E60EXT-R).....	24.18	7.69
28 46	13 31-2455	EA	White, Extender Ring For E60 Series (Wheelock E60EXT-W).....	24.18	7.69
28 46	13 31-2456	EA	Red, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-R).....	58.92	19.22
28 46	13 31-2457	EA	White, Surface Mounted Backbox For E50 Speakers (Wheelock E50SB-W).....	56.04	19.22
28 46	13 31-2458	EA	Red, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-R).....	58.92	19.22
28 46	13 31-2459	EA	White, Surface Mounted Backbox For E50 Speaker Strobe (Wheelock E50SSB-W).....	58.92	19.22
28 46	13 31-2460	EA	4" Square Backbox (Wheelock DBB-R).....	50.12	19.22
28 46	13 31-2461	EA	Red, Surface Backbox (Wheelock IOB-R).....	57.03	19.22
28 46	13 31-2462	EA	White, Surface, Backbox (Wheelock IOB-W).....	57.03	19.22
28 46	13 31-2463	EA	White, Indoor, Surface Extender (Wheelock ISP2-W).....	23.24	7.69
28 46	13 31-2464	EA	Red, RS/RSS Strobe Trim Plate (Wheelock NATP-R).....	29.05	7.69
28 46	13 31-2465	EA	White, RS/RSS Strobe Trim Plate (Wheelock NATP-W).....	29.05	7.69
28 46	13 31-2466	EA	Red Retrofit Plate (Wheelock RP-R).....	27.05	7.69
28 46	13 31-2467	EA	4" Speaker/Strobe Ceiling Tile Support Bracket (Wheelock SSB-4).....	45.51	7.69
28 46	13 31-2468	EA	Red, Surface Mounted, Backbox For Chimes, Speakers (Wheelock SBB-R).....	59.36	19.22
28 46	13 31-2469	EA	White, Surface Mounted, Backbox For Chimes, Speaker (Wheelock SBB-W).....	59.99	19.22
28 46	13 31-2470	EA	Red, Surface Mounted, Backbox For With RSSP (Wheelock SBL2-R).....	63.31	19.22
28 46	13 31-2471	EA	Red, Semi-Flush Plate (Wheelock SFB-R).....	30.25	7.69
28 46	13 31-2472	EA	White, Semi-Flush Plate (Wheelock SFB-W).....	30.25	7.69
28 46	13 31-2473	EA	Red, Shallow Surface Mounted, Backbox (Wheelock SHBB-R).....	53.13	19.22
28 46	13 31-2474	EA	White, Shallow Surface Mounted, Backbox (Wheelock SHBB-W).....	53.13	19.22
28 46	13 31-2475	EA	Red, Adapter Plate For Mounting Sth-15S And Sth-15SR (Wheelock SHMP-R).....	32.97	7.69
28 46	13 31-2476	EA	Red, Weather Resistant Backbox (Wheelock WBB-R).....	58.56	19.22
28 46	13 31-2477	EA	Silver, Weather Resistant Backbox (Wheelock WBB-S).....	58.56	19.22
28 46	13 31-2478	EA	White, Weather Resistant Backbox (Wheelock WBB-W).....	58.56	19.22
28 46	13 31-2479	EA	Red, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-R).....	39.79	7.69
28 46	13 31-2480	EA	White, Flush Outdoor Mounting Plate For RS, ET, AH And MT Series (Wheelock WFP-W).....	39.79	7.69
28 46	13 31-2481	EA	Red, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-R).....	39.79	7.69
28 46	13 31-2482	EA	White, Flush Outdoor Mounting Plate For ASWP Series (Wheelock WFPA-W).....	39.79	7.69
28 46	13 31-2483	EA	Gasket Kit For Rear Wiring To Outdoor Backbox (Wheelock WP-KIT).....	28.43	7.69
28 46	13 31-2484	EA	Weather Resistant Backbox For ASWP (Wheelock WPBB-R).....	70.85	19.22
28 46	13 31-2485	EA	Weather Resistant Backbox For RSSWP (Wheelock WPSBB-R).....	65.61	19.22
28 46	13 31-2486	EA	Red Plate For RSS (Wheelock RSSCP-R).....	23.24	7.69
28 46	13 31-2487	EA	White Plate For RSS (Wheelock RSSCP-W).....	23.24	7.69
28 46	13 31-2488	EA	Red Fire Plate For RSS (Wheelock RSSCPW-FR).....	24.18	7.69
28 46	13 31-2489	EA	White Fire Plate For RSS (Wheelock RSSCPW-FW).....	24.18	7.69
28 46	13 31-2490	EA	Red, Indoor, Surface Extender (Wheelock ISP2-R).....	23.64	7.69
28 46	13 31-2491	EA	Red, 24 Volt DC, 135/185 Candela, Wall Mounted Strobe Plate (Wheelock RSSP-24MCHW-FR).....	158.27	7.69
28 46	13 31-2492	EA	White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-ALW).....	142.20	7.69
28 46	13 31-2493	EA	White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, No Lettering, Ceiling Mounted Strobe Plate (Wheelock RSSPA-24MCC-NW).....	139.82	7.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2494 EA White, 24 Volt DC, 15/30/75/110 Candela, Amber Lens, ALERT Lettering, Wall Mounted Strobe Plate (Wheelock RSSPA-24MCW-ALW).....	142.20	7.69
28 46 13 31-2495 EA Red, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-R).....	26.52	7.69
28 46 13 31-2496 EA White, Square Grill Plate For CH70, E70, ET70 (Wheelock ECHG70-W).....	25.81	7.69
28 46 13 31-2497 EA Red, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-R).....	27.06	7.69
28 46 13 31-2498 EA White, Round Grill Plate For CH70, E70, ET70 (Wheelock ECHG90-W).....	27.06	7.69
28 46 13 31-2499 EA White, Fire Lettered, Grill Plate For E50 Speaker/Strobe (Wheelock ECHSG50-FW).....	25.81	7.69
28 46 13 31-2500 EA Red, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FR).....	26.94	7.69
28 46 13 31-2501 EA White, Square, Fire Lettered, Grill Plate For CH70,E70,ET70 Speaker/Strobe (Wheelock ECHSG70W-FW).....	26.94	7.69
28 46 13 31-2502 EA Red, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-R).....	25.81	7.69
28 46 13 31-2503 EA White, Round, Fire Lettered, Grill Plate For CH70, E70, ET70 Speaker Strobe (Wheelock ECHSG90-W).....	25.81	7.69
28 46 13 31-2504 EA Red, Surface Mounted, Extender Ring (Wheelock SER-R).....	34.86	7.69
28 46 13 31-2505 EA White, Surface Mounted, Extender Ring (Wheelock SER-W).....	35.22	7.69
28 46 13 31-2506 EA Red, Semi-Flush, Plate (Wheelock SFP-R).....	28.43	7.69
28 46 13 31-2507 EA Silver, Semi-Flush, Plate (Wheelock SFP-S).....	27.06	7.69
28 46 13 31-2508 EA White, Semi-Flush, Plate (Wheelock SFP-W).....	28.43	7.69
28 46 13 31-2509 EA Red, Weather Resistant Back Box For ASWP (Wheelock WPBB-R).....	70.85	19.22
28 46 13 31-2510 EA Red, Weather Resistant Back Box For RSSWP (Wheelock WPSBB-R).....	65.61	19.22
28 46 13 31-2511 EA White, Weather Resistant Back Box For RSSWP Series (Wheelock WPSBB-W).....	65.61	19.22
<b>28 46 13 31-2512 Manual Pull Station (28 46 13 31-2320)</b>		
28 46 13 31-2513 EA SPST, Single Action, Manual Pull Station (Eaton Wheelock MPS-100).....	151.48	38.46
28 46 13 31-2514 EA SPST, Double Action, Manual Pull Station (Eaton Wheelock MPS-200).....	151.48	38.46
28 46 13 31-2515 EA Explosion Proof, Single Action Manual Pull Station (Eaton Wheelock MPS-400X).....	1,202.87	38.46
<b>28 46 13 31-2516 Potter Fire Alarm (28 46 13 31)</b>		
<b>28 46 13 31-2517 Electric Alarm Bells (28 46 13 31-2516)</b>		
28 46 13 31-2518 EA 6" Alarm Bell, 12 Volt DC (Potter MBA-6-12).....	154.00	57.68
28 46 13 31-2519 EA 8" Alarm Bell, 12 Volt DC (Potter MBA-8-12).....	166.20	57.68
28 46 13 31-2520 EA 10" Alarm Bell, 12 Volt DC (Potter MBA-10-12).....	172.30	57.68
28 46 13 31-2521 EA 6" Alarm Bell, 24 Volt DC (Potter MBA-6-24).....	154.00	57.68
28 46 13 31-2522 EA 8" Alarm Bell, 24 Volt DC (Potter MBA-8-24).....	166.20	57.68
28 46 13 31-2523 EA 10" Alarm Bell, 24 Volt DC (Potter MBA-10-24).....	172.30	57.68
28 46 13 31-2524 EA 6" Alarm Bell, 24 Volt AC (Potter PBA246).....	164.36	57.68
28 46 13 31-2525 EA 8" Alarm Bell, 24 Volt AC (Potter PBA248).....	170.21	57.68
28 46 13 31-2526 EA 10" Alarm Bell, 24 Volt AC (Potter PBA2410).....	204.71	57.68
28 46 13 31-2527 EA 6" Alarm Bell, 120 Volt AC (Potter PBA1206).....	155.76	57.68
28 46 13 31-2528 EA 8" Alarm Bell, 120 Volt AC (Potter PBA1208).....	170.21	57.68
28 46 13 31-2529 EA 10" Alarm Bell, 120 Volt AC (Potter PBA12010).....	182.30	57.68
<b>28 46 13 31-2530 Manual Pull Station (28 46 13 31-2516)</b>		
28 46 13 31-2531 EA SPST, Single Action, Manual Pull Station (Potter P32-1T).....	111.50	38.46
28 46 13 31-2532 EA DPST, Single Action, Manual Pull Station (Potter RMS-2T).....	117.04	38.46
28 46 13 31-2533 EA DPST, Single Action, Manual Pull Station (Potter RMS-6T).....	179.41	38.46
28 46 13 31-2534 EA DPST, Single Action, Key Reset Manual Pull Station (Potter RMS-1T-KL).....	120.49	38.46
28 46 13 31-2535 EA SPST, Dual Action, Manual Pull Station (Potter P32-1T-LP).....	114.64	38.46
28 46 13 31-2536 EA SPST, Weather Proof, Manual Pull Station (Potter RMS-1T-WP).....	198.91	38.46
28 46 13 31-2537 EA SPST, Weather Proof Dual Action, Manual Pull Station (Potter RMS-1T-WP-LP).....	245.43	38.46
<b>28 46 13 31-2538 Fire Alarm Terminal Cabinets (28 46 13 31)</b>		
28 46 13 31-2539 EA 18 Point Lockable Fire Alarm Terminal Cabinet.....	284.25	77.01
28 46 13 31-2540 EA 32 Point Lockable Fire Alarm Terminal Cabinet.....	362.41	77.01
28 46 13 31-2541 EA 64 Point Lockable Fire Alarm Terminal Cabinet.....	518.71	77.01
28 46 13 31-2542 EA 128 Point Lockable Fire Alarm Terminal Cabinet.....	674.97	77.01
<b>28 46 13 31-2543 Test And Certification Of Fire Alarm System To Tie In To Existing Systems (28 46 13 31)</b>		
28 46 13 31-2544 HR Test And Certification Of Fire Alarm System.....	382.63	
<b>28 46 13 31-2545 Programming Of Existing Fire Alarm System (28 46 13 31)</b>		
28 46 13 31-2546 HR Programming Of Existing Fire Alarm System.....	459.16	
<b>28 46 13 31-2547 Removal And Reinstallation Of Smoke Detector (28 46 13 31)</b>		
Note: Includes storage, cleaning and supply materials.		
28 46 13 31-2548 EA Removal And Reinstallation Of Ceiling Mounted Smoke Detector.....	215.35	
28 46 13 31-2549 EA Removal And Reinstallation Of Wall Mounted Smoke Detector.....	173.05	
<b>28 46 13 31-2550 Kidde Fire Safety Equipment (28 46 13 31)</b>		
<b>28 46 13 31-2551 Smoke Detectors (28 46 13 31-2550)</b>		
28 46 13 31-2552 EA Combination Smoke And Carbon Monoxide Detector, Intelligent Sensor, 120 Volt Hardwired, With 10 Year Sealed Battery Back-up (Kidde P4010ACS-CO).....	183.60	57.68

**28 Electronic Safety and Security****28 40 Life Safety****28 46 Fire Detection and Alarm**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 46 13 31-2553 EA Combination Smoke And Carbon Monoxide Detector, 120 Volt Wired, With 10 Year Sealed Battery Back-up (Kidde i2010SCO).....	164.35	57.68
28 46 13 31-2554 EA Combination Smoke And Carbon Monoxide Detector, With 10 Year Sealed Battery (Kidde P3010K-CO).....	146.59	57.68
<b>28 46 31 Fire-Alarm Initiating Devices (28 46)</b>		
<b>28 46 31 11 Heat-Sensing Fire Detectors (28 46 31)</b>		
<b>28 46 31 11-0001 Protectowire Fire Alarm (28 46 31 11)</b>		
<b>28 46 31 11-0002 Linear Heat Detector Cable (28 46 31 11-0001)</b>		
28 46 31 11-0003 LF Multi-Purpose Linear Heat Detector, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC).....	6.11	
28 46 31 11-0004 LF Multi-Purpose Linear Heat Detector With Messenger Wire, EPC Type, 155 To 220 Degree F (Protectowire PHSC-EPC-M).....	6.59	
28 46 31 11-0005 LF High Performance Linear Heat Detector, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR).....	6.59	
28 46 31 11-0006 LF High Performance Linear Heat Detector With Messenger Wire, XCR Type, 155 To 220 Degree F (Protectowire PHSC-XCR-M).....	7.07	
28 46 31 11-0007 LF Multi-Purpose Linear Heat Detector, XLT Type, 135 Degree F (Protectowire PHSC-XLT).....	7.99	
28 46 31 11-0008 LF Multi-Purpose Linear Heat Detector With Messenger Wire, XLT Type, 135 Degree F (Protectowire PHSC-XLT-M).....	8.47	
28 46 31 11-0009 EA Flexible Lead Connector For Linear Heat Detector (Protectowire PFL).....	82.75	
28 46 31 11-0010 EA Splicing Connector For Linear Heat Detector (Protectowire PWSC).....	30.82	
28 46 31 11-0011 EA Cable Tray Clip For Linear Heat Detector (Protectowire CC-2N And CC-2W).....	11.06	
28 46 31 11-0012 EA Cable Tray Spring Clip For Linear Heat Detector (Protectowire HPC-2).....	11.06	
28 46 31 11-0013 EA Adhesive Cable Mount For Linear Heat Detector (Protectowire EMS-A-CO).....	12.57	
28 46 31 11-0014 EA Beam Clamp For Linear Heat Detector (Protectowire BC-2).....	19.57	
28 46 31 11-0015 EA Beam Clamp With Polypropylene Clip For Linear Heat Detector (Protectowire BC-3P).....	20.21	
28 46 31 11-0016 EA Pipe Mounting Straps Nylon (3/4" to 2" Pipe) (Protectowire PM-3A).....	1.67	
28 46 31 11-0017 EA Pipe Mounting Straps Nylon (2-1/2" to 3-1/2" Pipe) (Protectowire PM-3B).....	2.27	
28 46 31 11-0018 EA Pipe Mounting Straps Nylon (4" to 6" Pipe) (Protectowire PM-3C).....	9.85	
<b>28 46 41 Fire-Alarm Notification Appliances (28 46)</b>		
<b>28 46 41 11 Audible Fire-Alarm Notification Appliances (28 46 41)</b>		
See CSI section 28 46 13 31-0000 for fire alarm speakers.		
<b>28 46 41 31 Combination Fire-Alarm Notification Appliances (28 46 41)</b>		
See CSI section 28 46 13 31-0000 for fire alarm horns and strobes.		
<b>28 47 Mass Notification (28 40)</b>		
<b>28 47 15 Mass Notification Control Panels (28 47)</b>		
<b>28 47 15 00-0001 Central Station Controls (28 47 15)</b>		
28 47 15 00-0002 EA Desktop 18 Function Base Station Control/Encoder (Whelen E747).....	955.37	
28 47 15 00-0003 EA Desktop 35 Function Base Station Control/Encoder (Whelen E969).....	1,549.50	
28 47 15 00-0004 EA Desktop Central Station Control Encoder/Decoder (Whelen E2010).....	4,528.90	
28 47 15 00-0005 EA Siren Status Printer And Cable Option For E2010 (Whelen E2010P).....	1,426.35	38.46
28 47 15 00-0006 EA Rack Mounted Central Station Control Encoder/Decoder (Whelen E2010R).....	5,217.65	38.46
28 47 15 00-0007 EA Internal Option To Convert E2010 To FSK Format (Whelen E2010FSK).....	799.83	38.46
28 47 15 00-0008 EA Option To Convert Activation Controls To FSK Format (Whelen FSKCEO).....	856.93	38.46
<b>28 47 17 Notification Devices and Methods (28 47)</b>		
<b>28 47 17 17 Notification Appliances and Methods Public Methods (28 47 17)</b>		
<b>28 47 17 17-0001 Voice Capable Omni-Directional Speakers (28 47 17 17)</b>		
28 47 17 17-0002 EA 1 Cell, 109 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2901A).....	13,996.14	962.75
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0003 EA 2 Cells, 115 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2902A).....	16,970.20	1,004.60
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0004 EA 3 Cells, 119 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2903A).....	19,907.80	1,046.46
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0005 EA 4 Cells, 121 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2904A).....	22,845.41	1,088.32
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0006 EA 5 Cells, 123 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2905A).....	25,855.92	1,130.18
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0007 EA 6 Cells, 125 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2906A).....	30,871.16	1,172.03
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0008 EA 7 Cells, 126 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2907A).....	33,845.23	1,213.89
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0009 EA 8 Cells, 127 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2908A).....	37,414.63	1,255.75
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0010 EA 9 Cells, 128 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2909A).....	40,352.25	1,297.60
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0011 EA 10 Cells, 129 dB, Voice Capable Omni-Directional Speaker (Whelen WPS2910A).....	43,326.31	1,339.47
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0012 EA 3 Cells, 127 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4003).....	29,777.67	1,172.03
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0013 EA 4 Cells, 129 dB, Voice Capable Rotating Directional Speaker (Whelen WPS4004).....	31,694.70	1,213.89
Note: Includes amplifiers, controller box with power supply and battery charger. Excludes batteries.		
28 47 17 17-0014 EA One-Way Control, 10 Digit DTMF Landline (Whelen D2030LL).....	575.81	38.46
28 47 17 17-0015 EA VHF High-Band Narrow-Band, One-Way Control, 10 Digit DTMF (Whelen D2030NV).....	2,166.69	38.46



Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Contains line items for UHF/VHF narrow/wide band controls, LED lights, sirens, and speakers.

**28 Electronic Safety and Security**

**28 40 Life Safety**

**28 47 Mass Notification**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0086 EA Landline, 10 Digit DTMF (Whelen VD2030LL).....	585.99	38.46
28 47 17 17-0087 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VD230NV).....	2,166.69	38.46
28 47 17 17-0088 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VD230NU).....	2,166.69	38.46
28 47 17 17-0089 EA UHF Wide-Band, 10 Digit DTMF (Whelen VD230WU).....	1,960.14	38.46
28 47 17 17-0090 EA VHF High-Wide Band, 10 Digit DTMF (Whelen VD230WV).....	1,899.39	38.46
28 47 17 17-0091 EA Two-Tone Sequential Option (Order One-Way Control Option, Above, VD2020LL, VD2020H, VD2020U) (Whelen VORTT).....	466.27	38.46
28 47 17 17-0092 EA Full Function Auxiliary/Status Control Board For Contact Closure Activation (Whelen VAUXCS).....	678.33	38.46
28 47 17 17-0093 EA Landline, 10 Digit DTMF (Whelen VC2030LL).....	718.42	38.46
28 47 17 17-0094 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen VC230NV).....	2,373.24	38.46
28 47 17 17-0095 EA UHF Narrow-Band, 10 Digit DTMF (Whelen VC230NU).....	2,373.24	38.46
28 47 17 17-0096 EA UHF, 10 Digit DTMF (Whelen VC230WU).....	2,373.24	38.46
28 47 17 17-0097 EA VHF High Band, 10 Digit DTMF (Whelen VC230WV).....	2,373.24	38.46
28 47 17 17-0098 EA Option To Convert The Vortex Activation Controls To FSK Format (Whelen VFSKXMOD).....	856.93	38.46
28 47 17 17-0099 EA Cabinet Window LED Status Indicator (Whelen VSTATUS).....	507.02	38.46
28 47 17 17-0100 EA Paging Interface To Interface Whelen Tones With Existing In-Plant Systems (Whelen VPGINT).....	440.07	38.46
28 47 17 17-0101 EA Vortex Intrusion Alarm (Whelen VINTRU).....	272.18	38.46
28 47 17 17-0102 EA Speaker Pole Top Bracket (Whelen VPTB).....	691.69	38.46
28 47 17 17-0103 EA 80 Watt Solar Power Option (Whelen VSBC280).....	4,434.48	230.73
28 47 17 17-0104 EA One Pair Of Whelen Approved Batteries For Vortex Series (Whelen BSETVOR).....	1,006.00	57.68
28 47 17 17-0105 EA Program Charge For Custom VROM Message (Whelen VPROG).....	3,580.84	
<b>28 47 17 17-0106 Uni-Directional Rotating Speakers (28 47 17 17)</b>		
28 47 17 17-0107 EA 118 dB, Uni-Directional Rotating Speaker (Whelen HORNET).....	14,919.53	962.75
28 47 17 17-0108 EA One Way Contact Closure Activation Control Board (Whelen HAUXIN).....	317.43	38.46
28 47 17 17-0109 EA Landline, One Way Control, 10 Digit DTMF (Whelen HD2030LL).....	585.99	38.46
28 47 17 17-0110 EA VHF High-Narrow Band, One Way Control, 10 Digit DTMF (Whelen HD230NV).....	2,166.69	38.46
28 47 17 17-0111 EA UHF Narrow-Band, One Way Control, 10 Digit DTMF (Whelen HD230NU).....	2,166.69	38.46
28 47 17 17-0112 EA UHF Wide-Band, One Way Control, 10 Digit DTMF (Whelen HD230WU).....	1,960.14	38.46
28 47 17 17-0113 EA VHF High-Wide Band, One Way Control, 10 Digit DTMF (Whelen HD230WV).....	1,899.39	38.46
28 47 17 17-0114 EA Two-Tone Sequential Option For Hornet (Whelen HORTT).....	474.21	38.46
28 47 17 17-0115 EA Two Way Contact Closure Activation And Status Control Board (Whelen HAUXCS).....	666.31	38.46
28 47 17 17-0116 EA Landline, Two Way Control, 10 Digit DTMF (Whelen HC2030LL).....	705.60	38.46
28 47 17 17-0117 EA VHF High-Narrow Band, Two Way Control, 10 Digit DTMF (Whelen HC230NV).....	2,373.24	38.46
28 47 17 17-0118 EA UHF Narrow-Band, Two Way Control, 10 Digit DTMF (Whelen HC230NU).....	2,373.24	38.46
28 47 17 17-0119 EA UHF, Two Way Control, 10 Digit DTMF (Whelen HC230WU).....	2,373.24	38.46
28 47 17 17-0120 EA VHF High Band, Two Way Control, 10 Digit DTMF (Whelen HC230WV).....	2,373.24	38.46
28 47 17 17-0121 EA Converts Siren Activation Controls To FSK Format (Whelen HFSKXMOD).....	856.93	38.46
28 47 17 17-0122 EA LED Status Indicator (Whelen HSTATUS).....	498.42	38.46
28 47 17 17-0123 EA Option For Paging Interface (Whelen HPGINT).....	440.07	38.46
28 47 17 17-0124 EA Intrusion Alarm (Whelen HINTRU).....	272.18	38.46
28 47 17 17-0125 EA Solar Power Option (Whelen HSBC280).....	4,434.48	230.73
28 47 17 17-0126 EA Pole Top Bracket For Speaker (Whelen HPTB).....	702.03	38.46
28 47 17 17-0127 EA One Pair Of Whelen Approved Batteries (Whelen BSETF).....	1,006.00	57.68
<b>28 47 17 17-0128 All Hazard In-Plant Personnel Warning System (28 47 17 17)</b>		
28 47 17 17-0129 EA 400 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS400).....	7,612.70	1,230.58
28 47 17 17-0130 EA 800 Watt, Voice Capable, In-Plant Personnel Warning System (Whelen IPS800).....	9,196.09	1,384.39
28 47 17 17-0131 EA 15 Watt, Wide Angle Speaker (Whelen WS15T).....	452.33	57.68
28 47 17 17-0132 EA Recess Mounted, 15 Watt Speaker (Whelen WS15TR).....	433.28	57.68
28 47 17 17-0133 EA With Grill, Recess Mounted, 15 Watt Speaker (Whelen WS15TEN).....	814.30	57.68
28 47 17 17-0134 EA 30 Watt, Wide Angle Speaker (Whelen WS30T).....	560.68	57.68
28 47 17 17-0135 EA 60 Watt, Wide Angle Speaker (Whelen WS60T).....	1,117.93	57.68
28 47 17 17-0136 EA Explosion-Proof, 60 Watt, Wide Angle Speaker (Whelen WSXP6T).....	1,746.69	65.37
28 47 17 17-0137 EA 100 Watt, Wide Angle Speaker (Whelen WS100).....	717.85	57.68
28 47 17 17-0138 EA Weatherproof Housing, 100 Watt, Wide Angle Speaker (Whelen WS100TCH).....	1,114.27	65.37
28 47 17 17-0139 EA Intrusion Alarm For Whelen Outdoor Speaker Cabinets (Whelen INTRU).....	272.18	38.46
<b>28 47 17 17-0140 Firehouse Siren (28 47 17 17)</b>		
28 47 17 17-0141 EA Auxiliary Board Contact Closure (Whelen FAUXIN).....	317.43	38.46
28 47 17 17-0142 EA Two-Tone Sequential Option (Whelen FTT).....	466.27	38.46
28 47 17 17-0143 EA Auxiliary/Status Control Board (Whelen FAUXCS).....	678.33	38.46
28 47 17 17-0144 EA Landline, 10 Digit DTMF (Whelen FC2030LL).....	705.60	38.46
28 47 17 17-0145 EA VHF High-Narrow Band, 10 Digit DTMF (Whelen FC230NV).....	2,373.24	38.46
28 47 17 17-0146 EA UHF Narrow-Band, 10 Digit DTMF (Whelen FC230NU).....	2,373.24	38.46
28 47 17 17-0147 EA UHF, 10 Digit DTMF (Whelen FC230WU).....	2,373.24	38.46
28 47 17 17-0148 EA VHF High Band, 10 Digit DTMF (Whelen FC230WV).....	2,373.24	38.46
28 47 17 17-0149 EA Paging Interface Control Option (Whelen FPGINT).....	440.07	38.46
28 47 17 17-0150 EA Intrusion Alarm Control Option (Whelen FINTRU).....	272.18	38.46
28 47 17 17-0151 EA Solar Power Option (Whelen FSBC280).....	4,434.48	230.73
Note: Two 80 watt panels, with brackets and solar regulator.		
<b>28 47 17 17-0152 Alert Monitor And Message Display (28 47 17 17)</b>		
28 47 17 17-0153 EA Alert Monitor With Radio Receiver VHF High Band (Whelen V2000H).....	1,984.44	38.46
28 47 17 17-0154 EA Alert Monitor VHF High-Narrow Band (Whelen V2000NH).....	1,984.44	38.46
28 47 17 17-0155 EA Alert Monitor UHF Narrow-Band (Whelen V2000NU).....	1,984.44	38.46





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 47 17 17-0156 EA Alert Monitor With Radio Receiver UHF (Whelen V2000U).....	1,984.44	38.46
28 47 17 17-0157 EA Internal Battery And Charger For VA2000 Series (Whelen VA2BATT).....	290.39	57.68
28 47 17 17-0158 EA Mounting Bracket For Under Cabinet Or Vehicle Mounting - VA2000 Series (Whelen VA2MTG).....	90.01	38.46
28 47 17 17-0159 EA Factory Programming Of 1 To 15 VA2000 Display Messages (Whelen VA2PROGA).....	169.08	
28 47 17 17-0160 EA Factory Programming Of 16 To 45 VA2000 Display Messages (Whelen VA2PROGB).....	265.53	
<b>28 47 17 17-0161</b> <b>Portable Test Set</b> <small>(28 47 17 17)</small>		
28 47 17 17-0162 EA VHF High Band, Portable Test Set (Whelen PT2010H).....	7,933.88	
28 47 17 17-0163 EA VHF Low Band, Portable Test Set (Whelen PT2010L).....	7,933.88	
28 47 17 17-0164 EA UHF, Portable Test Set (Whelen PT2010U).....	7,933.88	
<b>28 47 17 17-0165</b> <b>Replacement Warning Lights</b> <small>(28 47 17 17)</small>		
28 47 17 17-0166 EA Amber, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IA).....	446.92	61.53
28 47 17 17-0167 EA Blue, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IB).....	446.92	61.53
28 47 17 17-0168 EA Clear, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IC).....	446.92	61.53
28 47 17 17-0169 EA Green, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IG).....	446.92	61.53
28 47 17 17-0170 EA Red, Incandescent, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024IR).....	446.92	61.53
28 47 17 17-0171 EA Amber, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IA).....	479.07	61.53
28 47 17 17-0172 EA Blue, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IB).....	318.32	61.53
28 47 17 17-0173 EA Clear, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IC).....	474.31	61.53
28 47 17 17-0174 EA Green, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IG).....	474.31	61.53
28 47 17 17-0175 EA Red, Incandescent, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120IR).....	474.31	61.53
28 47 17 17-0176 EA Amber, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HA).....	446.92	61.53
28 47 17 17-0177 EA Blue, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HB).....	446.92	61.53
28 47 17 17-0178 EA Clear, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HC).....	446.92	61.53
28 47 17 17-0179 EA Green, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HG).....	446.92	61.53
28 47 17 17-0180 EA Red, Halogen, 24 Volt DC, Industrial Rotating Warning Light (Whelen IR3024HR).....	446.92	61.53
28 47 17 17-0181 EA Amber, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HA).....	498.12	61.53
28 47 17 17-0182 EA Blue, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HB).....	498.12	61.53
28 47 17 17-0183 EA Clear, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HC).....	330.23	61.53
28 47 17 17-0184 EA Green, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HG).....	330.23	61.53
28 47 17 17-0185 EA Red, Halogen, 120 Volt AC, Industrial Rotating Warning Light (Whelen IR3120HR).....	330.23	61.53
<b>28 47 17 17-0186</b> <b>Antenna</b> <small>(28 47 17 17)</small>		
28 47 17 17-0187 EA 50' Antenna Cable (Honeywell Ademco 7626-50HC).....	318.30	
28 47 17 17-0188 EA External/Remote Weatherproof Antenna (Honeywell Ademco GSM-ANT3DB).....	305.03	
28 47 17 17-0189 EA 80GHz Millimeter Wave Radio (BridgeWave Flex4G-1000).....	15,057.34	
<b>28 49</b> <b>Electronic Personal Protection Systems</b> <small>(28 49)</small>		
<b>28 49 11</b> <b>Electronic Personal Safety Detection Systems</b> <small>(28 49)</small>		
<b>28 49 11 00-0001</b> <b>Personnel Alarm Locating System</b> <small>(28 49 11)</small>		
Note: Includes a central computer, 17" VGA color monitor, keyboard and mouse, personal alarm locating software, a printer, interface cards and panels, eighty (80) personal alarm transmitters with lithium batteries, eighty (80) lapel readers, two hundred fifty (250) IR locators, twenty one (21) repeaters and receivers, back boxes, cables.		
28 49 11 00-0002 EA Personnel Alarm Locating System.....	24,147.77	1,234.16
Note: Includes Pentium III central computer, 17" VGA color monitor, keyboard and mouse, personal alarm locating software, a printer, interface cards and panels.		
28 49 11 00-0003 EA Personnel Alarm Transmitters With Lithium Batteries.....	187.89	
28 49 11 00-0004 EA Lapel Reader.....	72.26	
28 49 11 00-0005 EA IR Locator.....	280.27	46.21
28 49 11 00-0006 EA Repeater And Receivers.....	698.27	154.02
<b>28 49 17</b> <b>Electronic Personal Safety Emergency Aid Devices</b> <small>(28 49)</small>		
<b>28 49 17 00-0001</b> <b>Electronic Personal Safety Emergency Aid Devices (Edwards Signaling)</b> <small>(28 49 17)</small>		
<b>28 49 17 00-0002</b> <b>Call For Assistance Kits, Emergency Aid Devices (Edwards Signaling)</b> <small>(28 49 17 00-0001)</small>		
28 49 17 00-0003 EA Pull Cord Call For Assistance Kit With Strobe/Buzzer, Emergency Aid Devices (Edwards Signaling 7008B-N5).....	376.06	92.41
Note: Includes 1 high intensity strobe/buzzer (7007B-N5) and 1 emergency pull cord station (6537).		
28 49 17 00-0004 EA Push Button Call For Assistance Kit With Strobe/Horn, Emergency Aid Devices (Edwards Signaling 7005-G5).....	445.57	107.82
Note: Includes 1 high intensity strobe/horn (6536-G5), 1 emergency pull cord station (6537), and 1 transformer 592.		
28 49 17 00-0005 EA Pull Cord Call For Assistance Kit With Strobe/Horn, Emergency Aid Devices (Edwards Signaling 6538-G5).....	448.60	107.82
Note: Includes 1 high intensity strobe/horn (6536-G5), 1 wall mounted push button (620/147-10), and 1 transformer 592.		
<b>28 49 17 00-0006</b> <b>Audible/Visual Signaling Devices, Emergency Aid Devices (Edwards Signaling)</b> <small>(28 49 17 00-0001)</small>		
28 49 17 00-0007 EA High Intensity Strobe/Buzzer, Emergency Aid Devices (Edwards Signaling 7007B-N5).....	273.15	57.76
28 49 17 00-0008 EA High Intensity Strobe/Horn, Emergency Aid Devices (Edwards Signaling 6536-G5).....	262.48	46.21
28 49 17 00-0009 EA Transformer For High Intensity Strobe/Horns, Emergency Aid Devices (Edwards Signaling 592).....	130.56	46.21
28 49 17 00-0010 EA 1 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-1N5).....	215.64	46.21

**28 Electronic Safety and Security****28 40 Life Safety****28 49 Electronic Personal Protection Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
28 49 17 00-0011 EA 2 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-2N5).....	246.06	46.21
28 49 17 00-0012 EA 4 Lamp, Dome Station, Emergency Aid Devices (Edwards Signaling 7641-4G5).....	277.63	46.21
28 49 17 00-0013 EA 2 Lamp, Dome Station/Buzzer, Emergency Aid Devices (Edwards Signaling 7633-2).....	379.11	46.21
28 49 17 00-0014 EA 4 Lamp, Dome Station/Buzzer, Emergency Aid Devices (Edwards Signaling 7633-4).....	422.77	46.21
<b>28 49 17 00-0015 Call Activation Devices, Emergency Aid Devices (Edwards Signaling)</b> <sup>(28 49 17 00-0001)</sup>		
28 49 17 00-0016 EA Double Pole Single Throw Switch, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 6537).....	168.73	46.21
28 49 17 00-0017 EA Pushbutton Wall Station/Indicator Lamp With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7603E).....	241.25	46.21
28 49 17 00-0018 EA Pushbutton Wall Station/Indicator Lamp With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7613E).....	311.25	46.21
28 49 17 00-0019 EA 3 Maintained Contacts, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7302).....	321.57	15.41
28 49 17 00-0020 EA Bedside Wall Station Receptacle, Emergency Aid Devices (Edwards Signaling 7930).....	247.72	46.21
28 49 17 00-0021 EA Bedside Wall Station Receptacle With Lamp, Emergency Aid Devices (Edwards Signaling 7930L).....	289.59	46.21
28 49 17 00-0022 EA Locking Button, Pull Cord Station With Stainless Steel Face Plate, Emergency Aid Devices (Edwards Signaling 7932L).....	480.39	46.21
28 49 17 00-0023 EA Pendant Push Button, Emergency Aid Devices (Edwards Signaling 7620).....	236.21	46.21
28 49 17 00-0024 EA Single 6' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7675).....	272.65	15.41
28 49 17 00-0025 EA Double 6' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7676).....	418.78	15.41
28 49 17 00-0026 EA Single 15' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7685).....	427.76	15.41
28 49 17 00-0027 EA Double 15' Calling Cord Set For Bedside Wall Station Receptacles, Emergency Aid Devices (Edwards Signaling 7686).....	561.95	15.41

**END OF SECTION 28**



<b>Earthwork</b>	<b>31</b>	<b>13</b>
Maintenance of Earthwork	31 01	
Maintenance of Earth Moving	31 01 20	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 31 Earthwork

### 31 01 Maintenance of Earthwork <sup>(31)</sup>

#### 31 01 20 Maintenance of Earth Moving <sup>(31 01)</sup>

31 01 20 00-0001	Rip Settling Basins <sup>(31 01 20)</sup>	
	Note: Rip through light soil and sand in settling basin. 8' on center (machine width).	
31 01 20 00-0002	ACR Rip Light Soil And Sand, By Dozer .....	698.58
31 01 20 00-0003	ACR Rip Light Soil And Sand, By Grader With Rear Ripper .....	1,065.92
31 01 20 00-0004	ACR Rip Light Soil And Sand, By Rubber Tire Front End Loader .....	916.09

### 31 05 Common Work Results for Earthwork <sup>(31)</sup>

#### 31 05 13 Soils for Earthwork <sup>(31 05)</sup>

Note: Includes delivery up to 15 miles from the closest approved source and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

31 05 13 00-0001	Fill Material (Loose, Purchased Material) <sup>(31 05 13)</sup>	
	Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.	
31 05 13 00-0002	CY Bank Run/Fill Sand .....	37.25
	For Up To 8, Add	7.45
	For >8 To 16, Add	3.73
	For >48 To 64, Deduct	-2.76
	For >64 To 96, Deduct	-4.63
	For >96, Deduct	-6.49
31 05 13 00-0003	CY Screened/Washed Filter/Septic Sand .....	43.89
	For Up To 8, Add	8.78
	For >8 To 16, Add	4.39
	For >48 To 64, Deduct	-3.09
	For >64 To 96, Deduct	-5.29
	For >96, Deduct	-7.48
31 05 13 00-0004	CY 3/8" Minus, ASTM C33, Screened/Washed Bedding Sand .....	59.82
	For Up To 8, Add	11.96
	For >8 To 16, Add	5.98
	For >48 To 64, Deduct	-3.89
	For >64 To 96, Deduct	-6.88
	For >96, Deduct	-9.87
31 05 13 00-0005	CY 3/16" Minus, Screened/Washed Concrete Sand .....	53.84
	For Up To 8, Add	10.77
	For >8 To 16, Add	5.38
	For >48 To 64, Deduct	-3.59
	For >64 To 96, Deduct	-6.28
	For >96, Deduct	-8.98
31 05 13 00-0006	CY 3/32" Minus, Screened/Washed Masonry/Mortar Sand .....	95.00
	For Up To 8, Add	19.00
	For >8 To 16, Add	9.50
	For >48 To 64, Deduct	-5.65
	For >64 To 96, Deduct	-10.40
	For >96, Deduct	-15.15
31 05 13 00-0007	CY Common Fill, Native Soil/Dirt .....	49.82
	For Up To 8, Add	9.96
	For >8 To 16, Add	4.98
	For >48 To 64, Deduct	-3.39
	For >64 To 96, Deduct	-5.88
	For >96, Deduct	-8.37
31 05 13 00-0008	CY Lime Rock Screening .....	42.38
	For Up To 8, Add	8.48
	For >8 To 16, Add	4.24
	For >48 To 64, Deduct	-3.02
	For >64 To 96, Deduct	-5.14
	For >96, Deduct	-7.26
31 05 13 00-0009	CY Crushed Lime Rock Maximum 3-1/2" .....	42.38
	For Up To 8, Add	8.48
	For >8 To 16, Add	4.24
	For >48 To 64, Deduct	-3.02
	For >64 To 96, Deduct	-5.14
	For >96, Deduct	-7.26
31 05 13 00-0010	CY Sand/Clay .....	39.98
	For Up To 8, Add	8.00
	For >8 To 16, Add	4.00
	For >48 To 64, Deduct	-2.90
	For >64 To 96, Deduct	-4.90
	For >96, Deduct	-6.90
31 05 13 00-0011	CY Recycled Concrete Aggregate .....	38.14
	For Up To 8, Add	7.63
	For >8 To 16, Add	3.81
	For >48 To 64, Deduct	-2.81
	For >64 To 96, Deduct	-4.71
	For >96, Deduct	-6.62

**31 Earthwork**  
**31 05 Common Work Results for Earthwork**  
**31 05 13 Soils for Earthwork**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 13 00-0012	CY		Pitrun Clay .....	72.55	
			For Up To 8, Add	14.51	
			For >8 To 16, Add	7.26	
			For >48 To 64, Deduct	-4.53	
			For >64 To 96, Deduct	-8.16	
			For >96, Deduct	-11.78	
31 05 13 00-0013	CY		Light Clay / Loam .....	58.83	
			For Up To 8, Add	11.77	
			For >8 To 16, Add	5.88	
			For >48 To 64, Deduct	-3.84	
			For >64 To 96, Deduct	-6.78	
			For >96, Deduct	-9.72	
31 05 13 00-0014	CY		Heavy Clay .....	72.55	
			For Up To 8, Add	14.51	
			For >8 To 16, Add	7.26	
			For >48 To 64, Deduct	-4.53	
			For >64 To 96, Deduct	-8.16	
			For >96, Deduct	-11.78	

**31 05 16 Aggregates for Earthwork** (31 05 16)

See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

**31 05 16 00-0001 Aggregate (Loose, Purchased Material)** (31 05 16)

Note: Includes delivery up to 15 miles from the closest approved source, loading and dumping. Excludes spreading or backfilling. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

31 05 16 00-0002	CY		#2 Stone Aggregate Fill (1-1/2" To 2-1/2" Clean) .....	56.24	
			For Up To 8, Add	11.25	
			For >8 To 16, Add	5.62	
			For >48 To 64, Deduct	-3.71	
			For >64 To 96, Deduct	-6.52	
			For >96, Deduct	-9.34	
31 05 16 00-0003	CY		#3 Stone Aggregate Fill (1" To 2" Clean) .....	58.48	
			For Up To 8, Add	11.70	
			For >8 To 16, Add	5.85	
			For >48 To 64, Deduct	-3.82	
			For >64 To 96, Deduct	-6.75	
			For >96, Deduct	-9.67	
31 05 16 00-0004	CY		#4 Stone Aggregate Fill (3/4" To 1-1/2" Clean) .....	56.24	
			For Up To 8, Add	11.25	
			For >8 To 16, Add	5.62	
			For >48 To 64, Deduct	-3.71	
			For >64 To 96, Deduct	-6.52	
			For >96, Deduct	-9.34	
31 05 16 00-0005	CY		#5 Stone Aggregate Fill (1/2" To 1" Clean) .....	60.10	
			For Up To 8, Add	12.02	
			For >8 To 16, Add	6.01	
			For >48 To 64, Deduct	-3.91	
			For >64 To 96, Deduct	-6.91	
			For >96, Deduct	-9.92	
31 05 16 00-0006	CY		#6 Stone Aggregate Fill (3/8" To 3/4" Clean) .....	62.39	
			For Up To 8, Add	12.48	
			For >8 To 16, Add	6.24	
			For >48 To 64, Deduct	-4.02	
			For >64 To 96, Deduct	-7.14	
			For >96, Deduct	-10.26	
31 05 16 00-0007	CY		#56 Stone Aggregate Fill (3/8" To 1") .....	60.46	
			For Up To 8, Add	12.09	
			For >8 To 16, Add	6.05	
			For >48 To 64, Deduct	-3.92	
			For >64 To 96, Deduct	-6.95	
			For >96, Deduct	-9.97	
31 05 16 00-0008	CY		#57 Stone Aggregate Fill (3/8" To 1") .....	64.43	
			For Up To 8, Add	12.89	
			For >8 To 16, Add	6.44	
			For >48 To 64, Deduct	-4.12	
			For >64 To 96, Deduct	-7.34	
			For >96, Deduct	-10.56	
31 05 16 00-0009	CY		#67 Or #68 Stone Aggregate Fill (3/16" To 3/4") .....	58.36	
			For Up To 8, Add	11.67	
			For >8 To 16, Add	5.84	
			For >48 To 64, Deduct	-3.82	
			For >64 To 96, Deduct	-6.74	
			For >96, Deduct	-9.65	
31 05 16 00-0010	CY		#7 Stone Aggregate Fill (3/8" To 1/2") .....	59.46	
			For Up To 8, Add	11.89	
			For >8 To 16, Add	5.95	
			For >48 To 64, Deduct	-3.87	
			For >64 To 96, Deduct	-6.85	
			For >96, Deduct	-9.82	
31 05 16 00-0011	CY		#78 Stone Aggregate Fill (3/32" To 1/2") .....	59.94	
			For Up To 8, Add	11.99	
			For >8 To 16, Add	5.99	
			For >48 To 64, Deduct	-3.90	
			For >64 To 96, Deduct	-6.89	
			For >96, Deduct	-9.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 05 16 00-0012 CY #8 Stone Aggregate Fill (3/32" To 3/8") .....	62.39	
For Up To 8, Add	12.48	
For >8 To 16, Add	6.24	
For >48 To 64, Deduct	-4.02	
For >64 To 96, Deduct	-7.14	
For >96, Deduct	-10.26	
31 05 16 00-0013 CY #89 Stone Aggregate Fill (1/16" To 3/8") .....	63.07	
For Up To 8, Add	12.61	
For >8 To 16, Add	6.31	
For >48 To 64, Deduct	-4.05	
For >64 To 96, Deduct	-7.21	
For >96, Deduct	-10.36	
31 05 16 00-0014 CY #9 Stone Aggregate Fill (3/32" To 3/16") .....	62.39	
For Up To 8, Add	12.48	
For >8 To 16, Add	6.24	
For >48 To 64, Deduct	-4.02	
For >64 To 96, Deduct	-7.14	
For >96, Deduct	-10.26	
31 05 16 00-0015 CY #10 Stone Aggregate Fill (1/16" To 3/16") .....	63.79	
For Up To 8, Add	12.76	
For >8 To 16, Add	6.38	
For >48 To 64, Deduct	-4.09	
For >64 To 96, Deduct	-7.28	
For >96, Deduct	-10.47	
31 05 16 00-0016 CY #610 Modified Stone Aggregate Fill (1/16" To 3/4") .....	63.07	
For Up To 8, Add	12.61	
For >8 To 16, Add	6.31	
For >48 To 64, Deduct	-4.05	
For >64 To 96, Deduct	-7.21	
For >96, Deduct	-10.36	
31 05 16 00-0017 CY Screenings Stone Aggregate Fill (3/16" Max) .....	53.10	
For Up To 8, Add	10.62	
For >8 To 16, Add	5.31	
For >48 To 64, Deduct	-3.56	
For >64 To 96, Deduct	-6.21	
For >96, Deduct	-8.87	
31 05 16 00-0018 CY Over 6" To 12" Stone Aggregate Fill, Random Size .....	57.61	
For Up To 8, Add	11.52	
For >8 To 16, Add	5.76	
For >48 To 64, Deduct	-3.78	
For >64 To 96, Deduct	-6.66	
For >96, Deduct	-9.54	
31 05 16 00-0019 CY Over 6" To 12" Graded Stone Aggregate Fill .....	57.61	
For Up To 8, Add	11.52	
For >8 To 16, Add	5.76	
For >48 To 64, Deduct	-3.78	
For >64 To 96, Deduct	-6.66	
For >96, Deduct	-9.54	
31 05 16 00-0020 CY 3" To 7" Surge Stone Aggregate Fill, Random Size .....	62.11	
For Up To 8, Add	12.42	
For >8 To 16, Add	6.21	
For >48 To 64, Deduct	-4.01	
For >64 To 96, Deduct	-7.11	
For >96, Deduct	-10.22	
31 05 16 00-0021 CY 3" To 7" Surge Stone Graded Aggregate Fill .....	65.32	
For Up To 8, Add	13.06	
For >8 To 16, Add	6.53	
For >48 To 64, Deduct	-4.17	
For >64 To 96, Deduct	-7.43	
For >96, Deduct	-10.70	
31 05 16 00-0022 CY Crusher Run Aggregate Fill (2-1/2" Minus) .....	37.41	
For Up To 8, Add	7.48	
For >8 To 16, Add	3.74	
For >48 To 64, Deduct	-2.77	
For >64 To 96, Deduct	-4.64	
For >96, Deduct	-6.51	
31 05 16 00-0023 CY Crusher Run Aggregate Fill (1-1/2" Minus) .....	40.94	
For Up To 8, Add	8.19	
For >8 To 16, Add	4.09	
For >48 To 64, Deduct	-2.95	
For >64 To 96, Deduct	-4.99	
For >96, Deduct	-7.04	
31 05 16 00-0024 CY Crusher Run Aggregate Fill (3/4" Minus) .....	38.65	
For Up To 8, Add	7.73	
For >8 To 16, Add	3.87	
For >48 To 64, Deduct	-2.83	
For >64 To 96, Deduct	-4.77	
For >96, Deduct	-6.70	
31 05 16 00-0025 CY Miscellaneous Crushed Base, Processed Concrete, Paving .....	65.46	
For Up To 8, Add	13.09	
For >8 To 16, Add	6.55	
For >48 To 64, Deduct	-4.17	
For >64 To 96, Deduct	-7.45	
For >96, Deduct	-10.72	

<b>31</b>	<b>31 Earthwork</b>
	<b>31 05 Common Work Results for Earthwork</b>
	<b>31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**31 05 36 Equipment Delivery, Pickup, Mobilization and Demobilization** <sup>(31)</sup>

<sup>(05)</sup>  
See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.

**31 10 Site Clearing** <sup>(31)</sup>

**31 11 Clearing and Grubbing** <sup>(31 10)</sup>

31 11 00 00-0001	Clear And Grub Roots And Stumps <sup>(31 11)</sup>	
	Note: Tree diameter (diameter at breast height) is the diameter of the tree trunk measured at 4.5' above ground level. Based on tree density (light, medium or heavy) to be removed. Excludes loading. See CSI section 31 13 13 00-0001 for small areas or individual trees removal.	
31 11 00 00-0002	ACR Clear And Grub Light Trees Up To 6" Diameter, Cut And Chip .....	7,353.97
	Note: Includes grub and removal of stump	
31 11 00 00-0003	ACR Clear And Grub Light Stumps Only Up To 6" Diameter .....	2,328.69
31 11 00 00-0004	ACR Clear And Grub Medium Trees Up To 10" Diameter, Cut And Chip .....	9,805.29
	Note: Includes grub and removal of stump	
31 11 00 00-0005	ACR Clear And Grub Medium Stumps Only Up To 10" Diameter .....	3,881.15
31 11 00 00-0006	ACR Clear And Grub Heavy Trees Up To 16" Diameter, Cut And Chip .....	13,482.28
	Note: Includes grub and removal of stump	
31 11 00 00-0007	ACR Clear And Grub Heavy Stumps Only Up To 16" Diameter .....	5,821.71
31 11 00 00-0008	ACR Clear And Grub Heavy Trees Up To 24" Diameter, Cut And Chip .....	19,610.59
	Note: Includes grub and removal of stump	
31 11 00 00-0009	ACR Clear And Grub Heavy Stumps Only Up To 24" Diameter .....	8,150.40
31 11 00 00-0010	ACR Clearing By Machine - Light Brush Without Grub .....	326.83
31 11 00 00-0011	ACR Clearing By Machine - Medium Brush Without Grub .....	688.46
31 11 00 00-0012	ACR Clearing By Machine - Heavy Brush Without Grub .....	977.63
31 11 00 00-0013	ACR Chipping - Light Brush .....	2,615.21
31 11 00 00-0014	ACR Chipping - Medium Brush .....	3,362.59
31 11 00 00-0015	ACR Chipping - Heavy Brush .....	4,708.05

**31 11 00 00-0016 Loading Of Cleared And Grubbed Material** <sup>(31 11)</sup>

See CSI section 01 74 19 00-0039 for hauling.

31 11 00 00-0017	CY Machine Loading Of Cleared And Grubbed Material .....	11.53
31 11 00 00-0018	CY Chute Loading Of Cleared And Grubbed Material .....	13.84
31 11 00 00-0019	CY Hand Loading Of Cleared And Grubbed Material .....	38.35
31 11 00 00-0020	CY Wheel And Ramp Loading Of Cleared And Grubbed Material .....	30.13

**31 13 Selective Tree and Shrub Removal and Trimming** <sup>(31 10)</sup>

**31 13 13 Selective Tree and Shrub Removal** <sup>(31 13)</sup>

31 13 13 00-0001	Individual Tree Removal <sup>(31 13 13)</sup>	
	Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding.	
31 13 13 00-0002	EA Up To 6" D.B.H. (Diameter At Breast Height) Tree Removal .....	612.83
	Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0003	EA >6" To 12" D.B.H. (Diameter At Breast Height) Tree Removal .....	919.25
	Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0004	EA >12" To 24" D.B.H. (Diameter At Breast Height) Tree Removal .....	1,225.66
	Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0005	EA >24" To 36" D.B.H. (Diameter At Breast Height) Tree Removal .....	1,838.49
	Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0006	EA >36" To 48" D.B.H. (Diameter At Breast Height) Tree Removal .....	2,451.32
	Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0007	EA >48" To 60" D.B.H. (Diameter At Breast Height) Tree Removal .....	3,064.15
	Note: Includes cutting up tree, chipping and loading.	
31 13 13 00-0008	EA >60" To 72" D.B.H. (Diameter At Breast Height) Tree Removal .....	3,676.99
	Note: Includes cutting up tree, chipping and loading.	
	<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	<i>-766.04</i>
31 13 13 00-0009	EA >72" To 84" D.B.H. (Diameter At Breast Height) Tree Removal .....	4,902.65
	Note: Includes cutting up tree, chipping and loading.	
	<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	<i>-1,225.66</i>

**31 13 13 00-0010 Stump Removal** <sup>(31 13 13)</sup>

Note: Measured by diameter of stump.

31 13 13 00-0011	Stump Removal By Machine <sup>(31 13 13 00-0010)</sup>	
31 13 13 00-0012	EA Up To 6" Diameter Stump Removal .....	116.43
	Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0013	EA >6" To 12" Diameter Stump Removal .....	223.17
	Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0014	EA >12" To 24" Diameter Stump Removal .....	291.08
	Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0015	EA >24" To 36" Diameter Stump Removal .....	436.64
	Note: Includes excavation necessary to remove stump and loading.	
31 13 13 00-0016	EA >36" To 48" Diameter Stump Removal .....	514.29
	Note: Includes excavation necessary to remove stump and loading.	



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Site Clearing</b>	<b>31 10</b>	
<b>Selective Tree and Shrub Removal and Trimming</b>	<b>31 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 13 13 00-0017 EA >48" To 60" Diameter Stump Removal..... Note: Includes excavation necessary to remove stump and loading.	605.45	
31 13 13 00-0018 EA >60" To 72" Diameter Stump Removal..... Note: Includes excavation necessary to remove stump and loading.	718.01	
31 13 13 00-0019 EA >72" To 84" Diameter Stump Removal..... Note: Includes excavation necessary to remove stump and loading.	844.15	
<b>31 13 13 00-0020 Stump Removal By Hand</b> <small>(31 13 13 00-0010)</small>		
31 13 13 00-0021 EA Up To 6" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	651.44	
31 13 13 00-0022 EA >6" To 12" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	814.30	
31 13 13 00-0023 EA >12" To 24" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,194.31	
31 13 13 00-0024 EA >24" To 36" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	1,628.61	
31 13 13 00-0025 EA >36" To 48" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,171.47	
31 13 13 00-0026 EA >48" To 60" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	2,714.34	
31 13 13 00-0027 EA >60" To 72" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,257.21	
31 13 13 00-0028 EA >72" To 84" Diameter Stump Removal By Hand ..... Note: Where stump removal is inaccessible by machine. Includes excavation necessary to remove stump and loading.	3,800.07	
<b>31 13 13 00-0029 Stump Grinding</b> <small>(31 13 13)</small> Note: Measured by diameter of stump.		
<b>31 13 13 00-0030 Stump Grinding, 18" Deep Below Surface Of Soil</b> <small>(31 13 13 00-0029)</small> Note: Level soil to match existing surface area.		
31 13 13 00-0031 EA Stump Grinding Up To 6" Tree ..... <i>For 24" Depth, Add</i>	114.20 22.84	
31 13 13 00-0032 EA Stump Grinding >6" To 12" Tree..... <i>For 24" Depth, Add</i>	142.75 28.55	
31 13 13 00-0033 EA Stump Grinding >12" To 15" Tree..... <i>For 24" Depth, Add</i>	171.29 34.26	
31 13 13 00-0034 EA Stump Grinding >15" To 18" Tree..... <i>For 24" Depth, Add</i>	190.33 38.07	
31 13 13 00-0035 EA Stump Grinding >18" To 21" Tree..... <i>For 24" Depth, Add</i>	204.60 40.92	
31 13 13 00-0036 EA Stump Grinding >21" To 24" Tree..... <i>For 24" Depth, Add</i>	218.87 43.77	
31 13 13 00-0037 EA Stump Grinding >24" To 27" Tree..... <i>For 24" Depth, Add</i>	237.90 47.58	
31 13 13 00-0038 EA Stump Grinding >27" To 30" Tree..... <i>For 24" Depth, Add</i>	258.41 51.68	
31 13 13 00-0039 EA Stump Grinding >30" To 33" Tree..... <i>For 24" Depth, Add</i>	287.12 57.42	
31 13 13 00-0040 EA Stump Grinding >33" To 36" Tree..... <i>For 24" Depth, Add</i>	315.83 63.17	
31 13 13 00-0041 EA Stump Grinding >36" To 42" Tree..... <i>For 24" Depth, Add</i>	344.54 68.91	
31 13 13 00-0042 EA Stump Grinding >42" To 48" Tree..... <i>For 24" Depth, Add</i>	382.82 76.56	
31 13 13 00-0043 EA Stump Grinding >48" To 60" Tree..... <i>For 24" Depth, Add</i>	478.53 95.71	
31 13 13 00-0044 EA Stump Grinding >60" To 72" Tree..... <i>For 24" Depth, Add</i>	598.17 119.63	
31 13 13 00-0045 EA Stump Grinding >72" To 84" Tree..... <i>For 24" Depth, Add</i>	765.65 153.13	
<b>31 13 13 00-0046 Shrub Removal</b> <small>(31 13 13)</small>		
31 13 13 00-0047 EA Removal Of 18" To 24" Shrub, Broadleaf Evergreen.....	45.91	
31 13 13 00-0048 EA Removal Of 2' To 3' Shrub, Broadleaf Evergreen.....	71.99	
31 13 13 00-0049 EA Removal Of 3' To 4' Shrub, Broadleaf Evergreen.....	83.47	
31 13 13 00-0050 EA Removal Of 4' To 5' Shrub, Broadleaf Evergreen.....	125.20	
31 13 13 00-0051 EA Removal Of 12" To 15" Shrub, Deciduous.....	22.96	
31 13 13 00-0052 EA Removal Of 18" To 24" Shrub, Deciduous.....	35.47	
31 13 13 00-0053 EA Removal Of 2' To 3' Shrub, Deciduous.....	45.91	
31 13 13 00-0054 EA Removal Of 3' To 4' Shrub, Deciduous.....	50.08	
31 13 13 00-0055 EA Removal Of 18" To 24" Shrub, Evergreen.....	45.91	
31 13 13 00-0056 EA Removal Of 24" To 30" Shrub, Evergreen.....	50.08	
31 13 13 00-0057 EA Removal Of 30" To 36" Shrub, Evergreen.....	71.99	

<b>31</b>	<b>31 Earthwork</b>
	<b>31 10 Site Clearing</b>
	<b>31 13 Selective Tree and Shrub Removal and Trimming</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 13 13 00-0058 EA Removal Of 36" To 42" Shrub, Evergreen .....125.20

**31 13 13 00-0059 Fallen Tree Removal** <sup>(31 13 13)</sup>  
 Note: Includes sawing and chipping branches. Tree diameter, D.B.H. (Diameter At Breast Height) is the diameter of the tree trunk measured at 4.5' above ground elevation. Excludes stump removal or grinding. Excludes removing tree from ground.

31 13 13 00-0060 EA Up To 6" D.B.H. (Diameter At Breast Height) Fallen Tree Removal .....	490.27
Note: Includes cutting up tree, chipping and loading.	
<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	
<i>For &gt;25, Deduct</i> <span style="float: right;">-122.57</span>	
<i>For &gt;25, Deduct</i> <span style="float: right;">-61.28</span>	
31 13 13 00-0061 EA >6" To 12" D.B.H. (Diameter At Breast Height) Fallen Tree Removal .....	735.39
Note: Includes cutting up tree, chipping and loading.	
<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	
<i>For &gt;25, Deduct</i> <span style="float: right;">-183.85</span>	
<i>For &gt;25, Deduct</i> <span style="float: right;">-91.92</span>	
31 13 13 00-0062 EA >12" To 24" D.B.H. (Diameter At Breast Height) Fallen Tree Removal .....	980.53
Note: Includes cutting up tree, chipping and loading.	
<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	
<i>For &gt;10, Deduct</i> <span style="float: right;">-245.13</span>	
<i>For &gt;10, Deduct</i> <span style="float: right;">-98.05</span>	
31 13 13 00-0063 EA >24" To 36" D.B.H. (Diameter At Breast Height) Fallen Tree Removal .....	1,470.80
Note: Includes cutting up tree, chipping and loading.	
<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	
<i>For &gt;10, Deduct</i> <span style="float: right;">-367.70</span>	
<i>For &gt;10, Deduct</i> <span style="float: right;">-147.08</span>	
31 13 13 00-0064 EA >36" To 48" D.B.H. (Diameter At Breast Height) Fallen Tree Removal .....	1,961.05
Note: Includes cutting up tree, chipping and loading.	
<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	
<i>For &gt;10, Deduct</i> <span style="float: right;">-490.26</span>	
<i>For &gt;10, Deduct</i> <span style="float: right;">-196.11</span>	
31 13 13 00-0065 EA >48" To 60" D.B.H. (Diameter At Breast Height) Fallen Tree Removal .....	2,451.32
Note: Includes cutting up tree, chipping and loading.	
<i>For Tree Removal Without Chipping Or Cutting Up Tree Into Smaller Pieces, Deduct</i>	
<i>For &gt;10, Deduct</i> <span style="float: right;">-612.83</span>	
<i>For &gt;10, Deduct</i> <span style="float: right;">-245.13</span>	

**31 13 16 Selective Tree and Shrub Trimming** <sup>(31 13)</sup>  
 See CSI section 32 01 90 23-0000 for tree pruning.

**31 13 16 00-0001 Tree Trimming For Pole Line Construction And Maintenance** <sup>(31 13 16)</sup>  
 Note: Area to be vertical cleared (including overhanging limbs) is minimum 20' wide (10' each side of structure) and 16' above ground. All materials to 6" D.B.H. (Diameter At Breast Height) to be chipped in place. Larger material may be chipped or disposed. Trees greater than 18" diameter use individual tree removal tasks. Quantity based on running foot of power line to be cleared.

31 13 16 00-0002 LF Tree Trimming, Light Cutting To 6" Diameter For Pole Line Construction .....	1.98
31 13 16 00-0003 LF Tree Trimming, Medium Cutting >6" To 12" Diameter For Pole Line Construction .....	2.97
31 13 16 00-0004 LF Tree Trimming, Heavy Cutting >12" To 18" Diameter For Pole Line Construction.....	3.49

**31 13 16 00-0005 Tree Branch Trimming And Removal For Maintenance Along Building Or Structure** <sup>(31 13 16)</sup>

Note: Includes pick-up and placement of cut branches into chipper for removal. Excludes transportation from site or disposal fee. See CSI section 01 22 23 00-0105 for bucket truck where required for additional height.

31 13 16 00-0006 EA Trim Tree Branch Minimum Charge.....	706.35
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
31 13 16 00-0007 EA Up To 1" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure .....	17.66
31 13 16 00-0008 EA >1" To 2" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure .....	19.86
31 13 16 00-0009 EA >2" To 3" Diameter Branch, Up To 5' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure .....	24.28
31 13 16 00-0010 EA Up To 1" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure .....	22.07
31 13 16 00-0011 EA >1" To 2" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure .....	24.83
31 13 16 00-0012 EA >2" To 3" Diameter Branch, >5' To 10' Length And Up To 10' From Ground, Trim Tree Branch From Building Or Structure .....	30.35

**31 20 Earth Moving** <sup>(31)</sup>

Note: Per OSHA -Soil Classification - 1926 Subpart P App A. Light material: Class A site material, normally referred to as "easy digging". Consisting of loose, soft, free running materials. Close lying, which will fill blade, digger or bucket to capacity, and frequently provide a heaped load. Materials such as dry sand, small gravel, unpacked earth, loam, etc., would fall into this category. Medium material: Class B site material, normally referred to as "medium and tough, wet and sticky clay would be examples of this medium digging", consisting of harder materials that are not difficult to dig without assistance such as ripping, blasting, etc. Material break up with some bulkiness causing voids in digger or bucket. Materials such as packed earth, common earth with some clay, soil with less than 25% rock content would be examples of this category. Heavy/wet material: Class C site material, normally referred to as "hard digging", consisting of materials which may require some assistance in breaking up. Bulky and somewhat hard to penetrate materials would be found in this category and voids in dipper or bucket would be common. Materials such as very hard packed soil, with up to 50% to 70% rock content and hard category. Soil conditions will be determined by soil analysis to provide appropriate percentage (%) for the various types of soil conditions. Apply the percentages to the various soil types to generate an appropriate representation of the soil condition.

**31 23 Excavation and Fill** <sup>(31 23)</sup>

**31 23 16 Excavation** <sup>(31 23)</sup>





<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Excavation and Fill</b>	<b>31 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>31 23 16 13</b>	<b>Trenching</b> <small>(31 23 16)</small>	
	Note: Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine.	
<b>31 23 16 13-0001</b>	<b>Excavation For Trenching By Machine</b> <small>(31 23 16 13)</small>	
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0002	CY 12" Wide or Less, Excavation for Trenching by Machine in Soil .....	11.20
	For Excavation In Light Material (Class A), Deduct	-1.40
	For Excavation In Heavy/Wet Material (Class C), Add	4.48
	For Up To 20, Add	11.20
	For >20 To 50, Add	8.40
	For >50 To 250, Add	4.48
	For >250 To 500, Add	1.68
	For >1,000, Deduct	-1.68
31 23 16 13-0003	CY Over 12" Wide, Excavation for Trenching by Machine in Soil .....	7.41
	For Excavation In Light Material (Class A), Deduct	-0.93
	For Excavation In Heavy/Wet Material (Class C), Add	2.96
	For Up To 20, Add	7.41
	For >20 To 50, Add	5.56
	For >50 To 250, Add	2.96
	For >250 To 500, Add	1.11
	For >1,000, Deduct	-1.11
31 23 16 13-0004	CY 12" Wide or Less, Excavation for Trenching by Machine in Loose Rock .....	18.53
	Note: Includes compacted aggregate	
	For Up To 20, Add	18.53
	For >20 To 50, Add	13.90
	For >50 To 250, Add	7.41
	For >250 To 500, Add	2.78
	For >1,000, Deduct	-2.78
31 23 16 13-0005	CY Over 12" Wide, Excavation for Trenching by Machine in Loose Rock .....	13.16
	Note: Includes compacted aggregate	
	For Up To 20, Add	13.16
	For >20 To 50, Add	9.87
	For >50 To 250, Add	5.26
	For >250 To 500, Add	1.97
	For >1,000, Deduct	-1.97
<b>31 23 16 13-0006</b>	<b>Excavation For Trenching By Hand</b> <small>(31 23 16 13)</small>	
31 23 16 13-0007	CY Excavation For Trenching By Hand In Soil .....	126.55
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
31 23 16 13-0008	CY Excavation For Trenching By Hand In Loose Rock Or Compacted Aggregate .....	217.07
	Note: Includes stockpiling excess materials and trimming sides and bottom of trench.	
<b>31 23 16 13-0009</b>	<b>Backfilling Or Placing Subbase For Trenches</b> <small>(31 23 16 13)</small>	
	Note: With imported or stockpiled materials.	
31 23 16 13-0010	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Machine .....	4.07
	For Up To 20, Add	4.07
	For >20 To 50, Add	3.05
	For >50 To 250, Add	1.63
	For >250 To 500, Add	0.61
	For >1,000, Deduct	-0.61
31 23 16 13-0011	CY Backfilling or Placing Subbase for Trenches with Imported or Stockpiled Materials by Hand .....	35.15
<b>31 23 16 13-0012</b>	<b>Compaction Of Fill Or Subbase For Trenches</b> <small>(31 23 16 13)</small>	
	Note: Includes restoration of final grade.	
31 23 16 13-0013	CY Compaction of Fill or Subbase for Trenches by Vibratory Plate, Air Tamper, Etcetera .....	7.37
	For Up To 20, Add	7.37
	For >20 To 50, Add	5.53
	For >50 To 250, Add	2.95
	For >250 To 500, Add	1.11
	For >1,000, Deduct	-1.11
31 23 16 13-0014	CY Compaction of Fill or Subbase for Trenches by Hand .....	39.66
<b>31 23 16 13-0015</b>	<b>Loading Excess Material For Removal From Excavation For Trenches</b> <small>(31 23 16 13)</small>	
	<sup>13)</sup> Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0039 for hauling.	
31 23 16 13-0016	CY Load Excess Material by Machine for Removal from Excavation for Trenching .....	7.07
	For Up To 20, Add	7.07
	For >20 To 50, Add	5.30
	For >50 To 250, Add	2.83
	For >250 To 500, Add	1.06
	For >1,000, Deduct	-1.06
31 23 16 13-0017	CY Load Excess Material by Hand for Removal from Excavation for Trenching .....	92.79
<b>31 23 16 13-0018</b>	<b>Spread Excess Or Imported Material For Trenches</b> <small>(31 23 16 13)</small>	
	Note: Includes hand work by laborer for clean-up.	

**31 Earthwork****31 20 Earth Moving****31 23 Excavation and Fill**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0019	CY		Spread Excess Or Imported Material On Site With Machine .....	3.35	
			<i>For Up To 20, Add</i> .....	3.35	
			<i>For &gt;20 To 50, Add</i> .....	2.51	
			<i>For &gt;50 To 250, Add</i> .....	1.34	
			<i>For &gt;250 To 500, Add</i> .....	0.50	
			<i>For &gt;1,000, Deduct</i> .....	-0.50	
<b>31 23 16 13-0020</b>			<b>Direct Burial (Plowed-in) Cable Or Piping By Machine</b> <small>(31 23 16 13)</small>		
			Note: Includes trench, backfill, compaction and restoration of final grade.		
31 23 16 13-0021	LF		Direct Burial of Cable or Piping up to 12" Deep .....	2.62	
31 23 16 13-0022	LF		Direct Burial of Cable or Piping >12" to 24" Deep .....	2.87	
31 23 16 13-0023	LF		Direct Burial of Cable or Piping >24" to 36" Deep .....	4.09	
31 23 16 13-0024	LF		Direct Burial of Cable or Piping >36" to 48" Deep .....	4.61	
<b>31 23 16 13-0025</b>			<b>Utility Chain Trencher</b> <small>(31 23 16 13)</small>		
<b>31 23 16 13-0026</b>			<b>Utility Trench, Chain Trencher</b> <small>(31 23 16 13-0025)</small>		
			Note: Earth left adjacent to trench.		
31 23 16 13-0027	LF		4" Wide, 12" Deep Trench, Medium Soil, Chain Trencher .....	1.35	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.09	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.20	
			<i>For &gt;500, Deduct</i> .....	-0.41	
31 23 16 13-0028	LF		4" Wide, 18" Deep Trench, Medium Soil, Chain Trencher .....	1.48	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.10	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.22	
			<i>For &gt;500, Deduct</i> .....	-0.44	
31 23 16 13-0029	LF		4" Wide, 24" Deep Trench, Medium Soil, Chain Trencher .....	1.54	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.11	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.23	
			<i>For &gt;500, Deduct</i> .....	-0.46	
31 23 16 13-0030	LF		6" Wide, 12" Deep Trench, Medium Soil, Chain Trencher .....	1.63	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.11	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.24	
			<i>For &gt;500, Deduct</i> .....	-0.49	
31 23 16 13-0031	LF		6" Wide, 18" Deep Trench, Medium Soil, Chain Trencher .....	1.78	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.12	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.27	
			<i>For &gt;500, Deduct</i> .....	-0.53	
31 23 16 13-0032	LF		6" Wide, 24" Deep Trench, Medium Soil, Chain Trencher .....	2.03	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.14	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.30	
			<i>For &gt;500, Deduct</i> .....	-0.61	
31 23 16 13-0033	LF		6" Wide, 36" Deep Trench, Medium Soil, Chain Trencher .....	2.44	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.17	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.37	
			<i>For &gt;500, Deduct</i> .....	-0.73	
31 23 16 13-0034	LF		8" Wide, 12" Deep Trench, Medium Soil, Chain Trencher .....	2.30	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.16	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.35	
			<i>For &gt;500, Deduct</i> .....	-0.69	
31 23 16 13-0035	LF		8" Wide, 18" Deep Trench, Medium Soil, Chain Trencher .....	2.71	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.19	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.41	
			<i>For &gt;500, Deduct</i> .....	-0.81	
31 23 16 13-0036	LF		8" Wide, 24" Deep Trench, Medium Soil, Chain Trencher .....	3.08	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.22	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.46	
			<i>For &gt;500, Deduct</i> .....	-0.92	
31 23 16 13-0037	LF		8" Wide, 36" Deep Trench, Medium Soil, Chain Trencher .....	3.66	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.26	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.55	
			<i>For &gt;500, Deduct</i> .....	-1.10	
<b>31 23 16 13-0038</b>			<b>Backfill Trenches With Compaction</b> <small>(31 23 16 13-0025)</small>		
31 23 16 13-0039	LF		Backfill 4" Wide, 12" Deep Trench, With Compaction .....	0.21	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.01	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.03	
			<i>For &gt;500, Deduct</i> .....	-0.06	
31 23 16 13-0040	LF		Backfill 4" Wide, 18" Deep Trench, With Compaction .....	0.33	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.02	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.05	
			<i>For &gt;500, Deduct</i> .....	-0.10	
31 23 16 13-0041	LF		Backfill 4" Wide, 24" Deep Trench, With Compaction .....	0.44	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.03	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.07	
			<i>For &gt;500, Deduct</i> .....	-0.13	
31 23 16 13-0042	LF		Backfill 6" Wide, 12" Deep Trench, With Compaction .....	0.33	
			<i>For &gt;100 To 250, Deduct</i> .....	-0.02	
			<i>For &gt;250 To 500, Deduct</i> .....	-0.05	
			<i>For &gt;500, Deduct</i> .....	-0.10	



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Excavation and Fill</b>	<b>31 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 13-0043 LF Backfill 6" Wide, 18" Deep Trench, With Compaction.....	0.44	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.07	
For >500, Deduct	-0.13	
31 23 16 13-0044 LF Backfill 6" Wide, 24" Deep Trench, With Compaction.....	0.66	
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.10	
For >500, Deduct	-0.20	
31 23 16 13-0045 LF Backfill 6" Wide, 36" Deep Trench, With Compaction.....	0.94	
For >100 To 250, Deduct	-0.07	
For >250 To 500, Deduct	-0.14	
For >500, Deduct	-0.28	
31 23 16 13-0046 LF Backfill 8" Wide, 12" Deep Trench, With Compaction.....	0.44	
For >100 To 250, Deduct	-0.03	
For >250 To 500, Deduct	-0.07	
For >500, Deduct	-0.13	
31 23 16 13-0047 LF Backfill 8" Wide, 18" Deep Trench, With Compaction.....	0.66	
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.10	
For >500, Deduct	-0.20	
31 23 16 13-0048 LF Backfill 8" Wide, 24" Deep Trench, With Compaction.....	0.88	
For >100 To 250, Deduct	-0.06	
For >250 To 500, Deduct	-0.13	
For >500, Deduct	-0.26	
31 23 16 13-0049 LF Backfill 8" Wide, 36" Deep Trench, With Compaction.....	1.32	
For >100 To 250, Deduct	-0.09	
For >250 To 500, Deduct	-0.20	
For >500, Deduct	-0.40	

**31 23 16 16 Structural Excavation for Minor Structures (31 23 16)**

31 23 16 16-0001 Post Holes (31 23 16 16)  
Note: Excludes spreading of excess material on site or loading and removal of excavated material from site.

31 23 16 16-0002 Drilling Post Hole In Soil (31 23 16 16-0001)  
Note: Auger by machine unless otherwise notified by owner.

31 23 16 16-0003 VLF Up To 2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil .....	9.77
31 23 16 16-0004 VLF 2-1/2" Diameter Hole, Auger By Machine Post Hole In Soil .....	10.99
31 23 16 16-0005 VLF 3" Diameter Hole, Auger By Machine Post Hole In Soil .....	13.02
31 23 16 16-0006 VLF 4" Diameter Hole, Auger By Machine Post Hole In Soil .....	14.65
31 23 16 16-0007 VLF 6" Diameter Hole, Auger By Machine Post Hole In Soil .....	15.99
31 23 16 16-0008 VLF 8" Diameter Hole, Auger By Machine Post Hole In Soil .....	17.58
31 23 16 16-0009 VLF 10" Diameter Hole, Auger By Machine Post Hole In Soil .....	19.53
31 23 16 16-0010 VLF 12" Diameter Hole, Auger By Machine Post Hole In Soil .....	21.98
31 23 16 16-0011 VLF 18" Diameter Hole, Auger By Machine Post Hole In Soil .....	25.12
31 23 16 16-0012 VLF 24" Diameter Hole, Auger By Machine Post Hole In Soil .....	29.30
31 23 16 16-0013 VLF 30" Diameter Hole, Auger By Machine Post Hole In Soil .....	35.17
31 23 16 16-0014 VLF 36" Diameter Hole, Auger By Machine Post Hole In Soil .....	43.96

31 23 16 16-0015 Drilling Post Hole In Rock (31 23 16 16-0001)

31 23 16 16-0016 CF Jackhammer Post Hole, Rock.....	71.07
31 23 16 16-0017 CF Rock Drill Post Hole, Rock.....	21.28

31 23 16 16-0018 Post Hole Fill (31 23 16 16-0001)

31 23 16 16-0019 Concrete Fill (31 23 16 16-0018)

31 23 16 16-0020 VLF Concrete Fill, Up To 2-1/2" Diameter Hole.....	6.60
31 23 16 16-0021 VLF Concrete Fill, 2-1/2" Diameter Hole .....	8.46
31 23 16 16-0022 VLF Concrete Fill, 3" Diameter Hole .....	9.44
31 23 16 16-0023 VLF Concrete Fill, 4" Diameter Hole .....	11.13
31 23 16 16-0024 VLF Concrete Fill, 6" Diameter Hole .....	15.87
31 23 16 16-0025 VLF Concrete Fill, 8" Diameter Hole .....	21.20
31 23 16 16-0026 VLF Concrete Fill, 10" Diameter Hole .....	26.02
31 23 16 16-0027 VLF Concrete Fill, 12" Diameter Hole .....	30.51
31 23 16 16-0028 VLF Concrete Fill, 18" Diameter Hole .....	42.41
31 23 16 16-0029 VLF Concrete Fill, 24" Diameter Hole .....	53.47
31 23 16 16-0030 VLF Concrete Fill, 30" Diameter Hole .....	64.32
31 23 16 16-0031 VLF Concrete Fill, 36" Diameter Hole .....	75.72

31 23 16 16-0032 Grout Fill (31 23 16 16-0018)

31 23 16 16-0033 VLF Grout Fill, Up To 2-1/2" Diameter Hole .....	7.57
31 23 16 16-0034 VLF Grout Fill, 2-1/2" Diameter Hole.....	9.71
31 23 16 16-0035 VLF Grout Fill, 3" Diameter Hole .....	10.71
31 23 16 16-0036 VLF Grout Fill, 4" Diameter Hole .....	12.34
31 23 16 16-0037 VLF Grout Fill, 6" Diameter Hole .....	17.44
31 23 16 16-0038 VLF Grout Fill, 8" Diameter Hole .....	23.27
31 23 16 16-0039 VLF Grout Fill, 10" Diameter Hole .....	28.47
31 23 16 16-0040 VLF Grout Fill, 12" Diameter Hole .....	33.24
31 23 16 16-0041 VLF Grout Fill, 18" Diameter Hole .....	45.38

<b>31</b>	<b>Earthwork</b>
<b>31 20</b>	<b>Earth Moving</b>
<b>31 23</b>	<b>Excavation and Fill</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 16-0042 VLF Grout Fill, 24" Diameter Hole .....	56.40	
31 23 16 16-0043 VLF Grout Fill, 30" Diameter Hole .....	67.15	
31 23 16 16-0044 VLF Grout Fill, 36" Diameter Hole .....	78.32	
<b>31 23 16 16-0045 Earth Fill, Compacted</b> <small>(31 23 16 16-0018)</small>		
31 23 16 16-0046 VLF Earth Fill, Up To 2-1/2" Diameter Hole.....	4.69	
31 23 16 16-0047 VLF Earth Fill, 2-1/2" Diameter Hole .....	6.11	
31 23 16 16-0048 VLF Earth Fill, 3" Diameter Hole.....	6.39	
31 23 16 16-0049 VLF Earth Fill, 4" Diameter Hole.....	6.57	
31 23 16 16-0050 VLF Earth Fill, 6" Diameter Hole.....	8.79	
31 23 16 16-0051 VLF Earth Fill, 8" Diameter Hole.....	11.71	
31 23 16 16-0052 VLF Earth Fill, 10" Diameter Hole.....	14.06	
31 23 16 16-0053 VLF Earth Fill, 12" Diameter Hole.....	15.94	
31 23 16 16-0054 VLF Earth Fill, 18" Diameter Hole.....	19.42	
31 23 16 16-0055 VLF Earth Fill, 24" Diameter Hole.....	21.80	
31 23 16 16-0056 VLF Earth Fill, 30" Diameter Hole.....	23.91	
31 23 16 16-0057 VLF Earth Fill, 36" Diameter Hole.....	25.78	
<b>31 23 16 26 Rock Removal</b> <small>(31 23 16)</small>		
<b>31 23 16 26-0001 Rock Breaking By Machine</b> <small>(31 23 16 26)</small>		
Note: Excludes excavation of broken-up rock.		
31 23 16 26-0002 CY Rock Breaking By Machine, Soft Sedimentary Rocks (Shale, Sandstone, Limestone) .....	30.00	
31 23 16 26-0003 CY Rock Breaking By Machine, Medium Metamorphic Rock (Slate).....	32.00	
31 23 16 26-0004 CY Rock Breaking By Machine, Hard Igneous Rock (Granite, Basalt) .....	38.00	
<b>31 23 16 33 Bulk Excavation</b> <small>(31 23 16)</small>		
Note: For excavations where the total quantity for a project is greater than 500 cubic yards. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 36-0000 for For less than 500 CY excavation.		
<b>31 23 16 33-0001 Excavation</b> <small>(31 23 16 33)</small>		
Note: For bulk excavation. Includes stockpiling excavated materials within 100' of point of excavation.		
31 23 16 33-0002 CY Bulk Excavation by Dozer in Soil .....	10.46	
For Excavation In Light Material (Class A), Deduct	-1.31	
For Excavation In Heavy/Wet Material (Class C), Add	4.18	
For >1,000, Deduct	-1.57	
31 23 16 33-0003 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Soil .....	5.98	
For Excavation In Light Material (Class A), Deduct	-0.75	
For Excavation In Heavy/Wet Material (Class C), Add	2.39	
For >1,000, Deduct	-0.90	
31 23 16 33-0004 CY Bulk Excavation by Dozer in Loose Rock .....	12.88	
Note: Includes compacted aggregate		
For >1,000, Deduct	-1.93	
31 23 16 33-0005 CY Bulk Excavation by Hydraulic Excavator, Front End Loader, Backhoe in Loose Rock .....	7.36	
Note: Includes compacted aggregate		
For >1,000, Deduct	-1.10	
<b>31 23 16 33-0006 Spreading, Shaping And Rough Grading</b> <small>(31 23 16 33)</small>		
Note: Imported or stockpiled material for bulk excavation.		
31 23 16 33-0007 CY Spreading, Shaping, and Rough Grading Imported or Stockpiled Material for Bulk Excavation by Machine .....	6.45	
For >1,000, Deduct	-0.97	
<b>31 23 16 33-0008 Cutting, Shaping and Rough Grading Of Existing Elevations</b> <small>(31 23 16 33)</small>		
Note: For bulk excavation.		
31 23 16 33-0009 CY Cutting, Shaping and Rough Grading Existing Elevations For Bulk Excavation by Machine .....	7.18	
For >1,000, Deduct	-1.08	
<b>31 23 16 33-0010 Relocating On Site Excavated Material From Excavation</b> <small>(31 23 16 33)</small>		
Note: For bulk excavation.		
31 23 16 33-0011 CY Relocating On Site Excavated Material From Bulk Excavation >100' to 300' .....	5.74	
For >1,000, Deduct	-0.86	
31 23 16 33-0012 CY Relocating On Site Excavated Material From Bulk Excavation >300' to 500' .....	8.61	
For >1,000, Deduct	-1.29	
31 23 16 33-0013 CY Relocating On Site Excavated Material From Bulk Excavation >500' To 1,000' .....	12.92	
For >1,000, Deduct	-1.94	
31 23 16 33-0014 CY Relocating On Site Excavated Material From Bulk Excavation >1,000' .....	17.22	
For >1,000, Deduct	-2.58	
<b>31 23 16 33-0015 Finish Grading</b> <small>(31 23 16 33)</small>		
Note: For bulk excavation.		
31 23 16 33-0016 SY Finish Grading for Bulk Excavation by Machine.....	0.71	
<b>31 23 16 33-0017 Compaction Of Fill Or Subbase, Per Lift</b> <small>(31 23 16 33)</small>		
Note: For bulk excavation. See CSI section 31 23 23 23-0001 for compaction water.		



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Excavation and Fill</b>	<b>31 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 33-0018 SY Compaction of Fill or Subbase for Bulk Excavation by Machine ..... Note: Per Lift	0.72	
<b>31 23 16 33-0019 Loading Excess Material For Removal From Excavation</b> <small>(31 23 16 33)</small> Note: For bulk excavation. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0039 for hauling.		
31 23 16 33-0020 CY Loading Excess Material For Removal From Bulk Excavation ..... For >1,000, Deduct	6.11 -0.92	
<b>31 23 16 36 Excavation for Building Foundations and Other Structures</b> <small>(31 23 16)</small> Note: Use of a Bobcat is limited to access restricted areas and by owner's approval. See CSI section 31 05 16 00-0000 for imported material, 31 23 16 33-0000 for bulk excavation operations over 500 CY.		
<b>31 23 16 36-0001 Excavation</b> <small>(31 23 16 36)</small> Note: For building foundations and other structures by machine. Includes stockpiling of excess materials on ground in reach of excavated area.		
<b>31 23 16 36-0002 Excavation For Building Foundations And Other Structures By Skid-Steer Loader</b> <small>(31 23 16 36-0001)</small>		
31 23 16 36-0003 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Soil ..... For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	9.40 -1.18 3.76 9.40 7.05 3.76 1.41	
31 23 16 36-0004 CY Excavation For Building Foundations And Other Structures By Skid-Steer Loader In Loose Rock ..... Note: Includes compacted aggregate For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	11.68 11.68 8.76 4.67 1.75	
<b>31 23 16 36-0005 Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader</b> <small>(31 23 16 36-0001)</small>		
31 23 16 36-0006 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Soil ..... For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	7.18 -0.90 2.87 7.18 5.39 2.87 1.08	
31 23 16 36-0007 CY Excavation For Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader in Loose Rock ..... Note: Includes compacted aggregate For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	8.54 8.54 6.41 3.42 1.28	
<b>31 23 16 36-0008 Excavation For Building Foundations And Other Structures By Hand</b> <small>(31 23 16 36-0001)</small> Note: For areas not accessible by machine and only with owner's approval.		
31 23 16 36-0009 CY Excavation For Building Foundations And Other Structures By Hand in Soil ..... For Excavation In Light Material (Class A), Deduct For Excavation In Heavy/Wet Material (Class C), Add	126.55 -15.82 50.62	
31 23 16 36-0010 CY Excavation For Building Foundations And Other Structures By Hand in Loose Rock ..... Note: Includes compacted aggregate	217.07	
<b>31 23 16 36-0011 Relocating On Site Excavated Stockpiled Material From Excavation</b> <small>(31 23 16 36)</small> Note: For building foundations and other structures.		
31 23 16 36-0012 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >100' to 300' ..... For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	5.74 5.74 4.31 2.30 0.86	
31 23 16 36-0013 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >300' to 500' ..... For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	8.61 8.61 6.46 3.44 1.29	
31 23 16 36-0014 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >500' to 1,000' ..... For Up To 20, Add For >20 To 50, Add For >50 To 250, Add For >250 To 500, Add	12.92 12.92 9.69 5.17 1.94	

<b>31</b>	<b>Earthwork</b>
<b>31 20</b>	<b>Earth Moving</b>
<b>31 23</b>	<b>Excavation and Fill</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 36-0015 CY Relocating On Site Excavated Stockpiled Material With Dozer From Excavation For Building Foundations and Other Structures >1,000'	17.22	
For Up To 20, Add	17.22	
For >20 To 50, Add	12.92	
For >50 To 250, Add	6.89	
For >250 To 500, Add	2.58	
<b>31 23 16 36-0016 Backfilling</b> <small>(31 23 16 36)</small>		
Note: For building foundations and other structures with imported or stockpiled materials. Includes rough grading each backfill lift.		
31 23 16 36-0017 CY Backfilling Around Building Foundations And Other Structures By Skid-Steer Loader	4.64	
For Up To 20, Add	4.64	
For >20 To 50, Add	3.48	
For >50 To 250, Add	1.86	
For >250 To 500, Add	0.70	
31 23 16 36-0018 CY Backfilling Around Building Foundations And Other Structures By Hydraulic Excavator, Backhoe, Loader	5.56	
For Up To 20, Add	5.56	
For >20 To 50, Add	4.17	
For >50 To 250, Add	2.22	
For >250 To 500, Add	0.83	
31 23 16 36-0019 CY Backfilling Around Building Foundations And Other Structures By Hand	60.26	
<b>31 23 16 36-0020 Compaction Of Fill Or Subbase</b> <small>(31 23 16 36)</small>		
Note: For building foundations and other structures. See CSI section 31 23 23 23-0001 for compaction water.		
31 23 16 36-0021 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Vibratory Plate, Air Tamper, Etcetera	11.66	
For Up To 20, Add	11.66	
For >20 To 50, Add	8.75	
For >50 To 250, Add	4.66	
For >250 To 500, Add	1.75	
31 23 16 36-0022 CY Compaction Of Fill Or Subbase For Building Foundations and Other Structures by Hand	39.65	
<b>31 23 16 36-0023 Grading</b> <small>(31 23 16 36)</small>		
Note: For building foundations and other structures.		
31 23 16 36-0024 SY Rough Grading For Building Foundations And Other Structures by Machine	1.23	
31 23 16 36-0025 SY Finish Grading For Building Foundations And Other Structures by Machine	2.00	
31 23 16 36-0026 SY Finish Grading For Building Foundations And Other Structures by Hand	11.71	
<b>31 23 16 36-0027 Loading Excess Material For Removal From Excavation</b> <small>(31 23 16 36)</small>		
Note: For building foundations and other structures. Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0039 for hauling.		
31 23 16 36-0028 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Machine	6.36	
For Up To 20, Add	6.36	
For >20 To 50, Add	4.77	
For >50 To 250, Add	2.54	
For >250 To 500, Add	0.95	
31 23 16 36-0029 CY Load Excess Material For Removal From Excavation For Building Foundations and Other Structures by Hand	92.79	
<b>31 23 16 36-0030 Spread Material</b> <small>(31 23 16 36)</small>		
Note: For building foundations and other structures.		
31 23 16 36-0031 CY Spread Excess Or Imported Material On Site By Machine	3.35	
For Up To 20, Add	3.35	
For >20 To 50, Add	2.51	
For >50 To 250, Add	1.34	
For >250 To 500, Add	0.50	
31 23 16 36-0032 CY Spread Excess Or Imported Material On Site By Hand	51.20	
<b>31 23 16 46 Excavation Operations to Expose Underground Pipes and Structures</b> <small>(31 23 16)</small>		
Note: Includes work above, beside and under pipe. Pipes up to 82" in diameter. Use this section for trenching operations even if the total project volume exceeds 500 CY. Use tasks for work by hand only for areas not accessible by machine. See CSI section 31 23 16 13-0015 for loading excess material, 31 23 16 13-0018 for spreading excess material.		
31 23 16 46-0001 Excavation To Expose Underground Pipe Or Structures <small>(31 23 16 46)</small>		
Note: Includes stockpiling excess materials and trimming sides and bottom of trench. Excludes rock breaking.		
31 23 16 46-0002 Excavation By Machine To Expose Underground Pipe Or Structure <small>(31 23 16 46-0001)</small>		
31 23 16 46-0003 CY Excavation By Hydraulic Excavator, Backhoe, Loader in Soil/Common Excavation To Expose Underground Pipes And Structures	14.37	
For Excavation In Light Material (Class A), Deduct	-1.80	
For Excavation In Heavy/Wet Material (Class C), Add	5.75	
For Up To 20, Add	14.37	
For >20 To 50, Add	10.78	
For >50 To 250, Add	5.75	
For >250 To 500, Add	2.16	



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Excavation and Fill</b>	<b>31 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 16 46-0004 CY Excavation By Hydraulic Excavator, Backhoe, Loader in Loose Rock To Expose Underground Pipes And Structures.....	17.06	
<i>For Up To 20, Add</i>	17.06	
<i>For &gt;20 To 50, Add</i>	12.80	
<i>For &gt;50 To 250, Add</i>	6.82	
<i>For &gt;250 To 500, Add</i>	2.56	
<b>31 23 16 46-0005 Excavation By Hand To Expose Underground Pipe Or Structure</b> <small>(31 23 16 46-0001)</small>		
31 23 16 46-0006 CY Excavation By Hand In Soil To Expose Underground Pipes And Structures.....	158.18	
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
31 23 16 46-0007 CY Excavation By Hand In Loose Rock To Expose Underground Pipes And Structures.....	236.21	
Note: Includes stockpiling excess materials and trimming sides and bottom of trench.		
<b>31 23 16 46-0008 Backfilling Or Placing Subbase At Exposed Underground Pipe Or Structures</b> <small>(31 23 16 46)</small>		
Note: With imported or stockpiled materials		
31 23 16 46-0009 CY Backfilling By Hydraulic Excavator, Backhoe, Loader At Exposed Underground Pipes And Structures.....	10.77	
<i>For &gt;20 To 50, Add</i>	8.08	
<i>For &gt;50 To 250, Add</i>	4.31	
<i>For &gt;250 To 500, Add</i>	1.62	
31 23 16 46-0010 CY Backfilling by Hand At Exposed Underground Pipes And Structures.....	71.71	
<b>31 23 16 46-0011 Compaction Of Fill Or Subbase At Exposed Underground Pipe Or Structures</b> <small>(31 23 16 46)</small>		
Note: With imported or stockpiled materials		
31 23 16 46-0012 CY Compaction of Fill or Subbase by Mechanical Means At Exposed Underground Pipe Or Structures.....	14.70	
<i>For Up To 20, Add</i>	14.70	
<i>For &gt;20 To 50, Add</i>	11.03	
<i>For &gt;50 To 250, Add</i>	5.88	
<i>For &gt;250 To 500, Add</i>	2.21	
31 23 16 46-0013 CY Compaction of Fill or Subbase by Hand At Exposed Underground Pipe Or Structures.....	47.59	
<b>31 23 16 46-0014 Loading Excess Material For Removal From Excavation At Exposed Underground Pipe Or Structures</b> <small>(31 23 16 46)</small>		
Note: Includes hand work by laborer for clean-up. Not to be used when excavated material can be loaded directly into truck instead of stock-piling. See CSI section 01 74 19 00-0039 for hauling.		
31 23 16 46-0015 CY Load Excess Material by Machine for Removal from Excavation At Exposed Underground Pipe Or Structures.....	7.07	
<i>For Up To 20, Add</i>	7.07	
<i>For &gt;20 To 50, Add</i>	5.30	
<i>For &gt;50 To 250, Add</i>	2.83	
<i>For &gt;250 To 500, Add</i>	1.06	
<i>For &gt;1,000, Deduct</i>	-1.06	
31 23 16 46-0016 CY Load Excess Material by Hand for Removal from Excavation At Exposed Underground Pipe Or Structures.....	92.79	
<b>31 23 16 46-0017 Spread Excess Or Imported Material At Exposed Underground Pipe Or Structures</b> <small>(31 23 16 46)</small>		
Note: Includes hand work by laborer for clean-up.		
31 23 16 46-0018 CY Spread Excess Or Imported Material On Site By Machine At Exposed Underground Pipe Or Structures.....	3.35	
<i>For Up To 20, Add</i>	3.35	
<i>For &gt;20 To 50, Add</i>	2.51	
<i>For &gt;50 To 250, Add</i>	1.34	
<i>For &gt;250 To 500, Add</i>	0.50	
<i>For &gt;1,000, Deduct</i>	-0.50	
31 23 16 46-0019 CY Spread Excess Or Imported Material On Site By Hand At Exposed Underground Pipe Or Structures.....	51.20	
<b>31 23 19 Dewatering</b> <small>(31 23)</small>		
<b>31 23 19 00-0001 Well Point Dewatering System</b> <small>(31 23 19)</small>		
<b>31 23 19 00-0002 Delivery, Installation And Removal Cost</b> <small>(31 23 19 00-0001)</small>		
Note: Priced by linear foot of header used.		
31 23 19 00-0003 LF Up To 100' In Length Well Point System Delivery, Installation And Removal.....	130.42	
31 23 19 00-0004 LF >100' To 250' In Length Well Point System Delivery, Installation And Removal.....	71.73	
31 23 19 00-0005 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	65.21	
31 23 19 00-0006 LF >250' To 500' In Length Well Point System Delivery, Installation And Removal.....	58.69	
31 23 19 00-0007 LF >500' To 1,000' In Length Well Point System Delivery, Installation And Removal.....	52.17	
31 23 19 00-0008 LF >1,000' In Length Well Point System Delivery, Installation And Removal.....	45.65	
<b>31 23 19 00-0009 Well Point Dewatering System Rental</b> <small>(31 23 19 00-0001)</small>		
Note: Includes all necessary equipment for a well point system (well point with risers, pump, valves, header pipe, discharge pipe, etc.). Use normal adjustment factor only for rental tasks and modifiers. Unit of measure and modifier quantities are based on linear feet of header per day (ex. 200 ft of header for four days - quantity should be 200x4 or 800 ft). Rental days include weekends, when appropriate, regardless if the system is operational during that time. Use weekly modifier for system use of five days to less than a month. Use monthly modifier for system use of one month or greater. See CSI section 31 23 19 00-0002 for installation, 31 23 19 00-0015 for operational costs.		

<b>31</b>	<b>Earthwork</b>
<b>31 20</b>	<b>Earth Moving</b>
<b>31 23</b>	<b>Excavation and Fill</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 23 19 00-0010 LFD Up To 100' In Length Well Point System Rental (LF x Days = Quantity) .....	4.68	
For >5 Days And <1 Month, Deduct	-1.03	
For >1 Month, Deduct	-1.31	
31 23 19 00-0011 LFD >100' To 250' In Length Well Point System Rental (LF x Days = Quantity) .....	2.73	
For >5 Days And <1 Month, Deduct	-0.60	
For >1 Month, Deduct	-0.76	
31 23 19 00-0012 LFD >250' To 500' In Length Well Point System Rental (LF x Days = Quantity) .....	1.95	
For >5 Days And <1 Month, Deduct	-0.43	
For >1 Month, Deduct	-0.55	
31 23 19 00-0013 LFD >500' To 1,000' In Length Well Point System Rental (LF x Days = Quantity) .....	1.43	
For >5 Days And <1 Month, Deduct	-0.31	
For >1 Month, Deduct	-0.40	
31 23 19 00-0014 LFD >1,000' In Length Well Point System Rental (LF x Days = Quantity) .....	1.30	
For >5 Days And <1 Month, Deduct	-0.29	
For >1 Month, Deduct	-0.36	
<b>31 23 19 00-0015 Well Point Dewatering System Operation Costs</b> (31 23 19 00-0001)		
Note: The quantity for operation shall be the total number of hours the well point system is operational.		
31 23 19 00-0016 HR Operation Costs .....	154.66	
<b>31 23 23 Fill</b> (31 23)		
<b>31 23 23 23 Compaction</b> (31 23 23)		
<b>31 23 23 23-0001 Compaction Water, Water Truck And Operator</b> (31 23 23 23)		
31 23 23 23-0002 MGL Compaction Water, Water Truck And Operator .....	283.17	
Note: Use this task in situations where earth fill, base material, etc. requires additional moisture to comply with the compaction specification. Includes delivery up to 15 miles. (Per each 1,000 gallons of water)		
<b>31 24 Embankments</b> (31 20)		
<b>31 24 13 Roadway Embankments</b> (31 24)		
<b>31 24 13 00-0001 Roadway, Parking Areas, Landscaping And Embankment Excavation And Shaping Operations</b> (31 24 13)		
Note: Use this section for excavation and shaping operations even if the total quantity for the project exceeds 500 CY. See CSI section 31 05 16 00-0000 for imported material, 32 12 16 00-0000 for asphalt paving, 32 13 13 00-0000 for concrete paving.		
<b>31 24 13 00-0002 Cutting, Shaping And Rough Grading</b> (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping, and embankments. Includes loading or stockpiling excess materials within 300' of initial cut.		
<b>31 24 13 00-0003 Cutting, Shaping, And Rough Grading</b> (31 24 13 00-0002)		
31 24 13 00-0004 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Soil .....	7.18	
For Up To 20, Add	7.18	
For >20 To 50, Add	5.39	
For >50 To 250, Add	2.87	
For >250 To 500, Add	1.08	
For >1,000, Deduct	-1.08	
31 24 13 00-0005 CY Cut, Shape, and Rough Grading for Roadways, Parking Areas, Landscaping and Embankments by Machine in Loose Rock .....	8.90	
Note: Includes compacted aggregate		
For Up To 20, Add	8.90	
For >20 To 50, Add	6.68	
For >50 To 250, Add	3.56	
For >250 To 500, Add	1.34	
For >1,000, Deduct	-1.34	
<b>31 24 13 00-0006 Cutting, Shaping, And Rough Grading By Hand</b> (31 24 13 00-0002)		
31 24 13 00-0007 SY Shape Embankment/Slope By Hand Up To 1 On 4 Slope .....	6.49	
31 24 13 00-0008 SY Shape Embankment/Slope By Hand Greater Than 1 On 4 Slope .....	8.44	
<b>31 24 13 00-0009 Scarify Soil</b> (31 24 13 00-0001)		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0010 CSF Scarify Soil For Roadways, Parking Areas, Landscaping And Embankments By Machine .....	6.64	
For Up To 20, Add	3.32	
For >20 To 50, Add	1.66	
For >250 To 500, Deduct	-0.66	
For >500, Deduct	-1.33	
<b>31 24 13 00-0011 Relocating On Site Excavated Material</b> (31 24 13 00-0001)		





<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Embankments</b>	<b>31 24</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 24 13 00-0012 CY >500' To 1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine.....	12.92	
For Up To 20, Add	12.92	
For >20 To 50, Add	9.69	
For >50 To 250, Add	5.17	
For >250 To 500, Add	1.94	
For >1,000, Deduct	-1.94	
31 24 13 00-0013 CY >1,000', Relocating On Site Excavated Material For Roadways, Parking Areas, Landscaping And Embankments By Machine.....	17.22	
For Up To 20, Add	17.22	
For >20 To 50, Add	12.92	
For >50 To 250, Add	6.89	
For >250 To 500, Add	2.58	
For >1,000, Deduct	-2.58	
<b>31 24 13 00-0014 Spread And Shape Imported Or Stockpiled Material</b> <small>(31 24 13 00-0001)</small>		
Note: For roadways, parking areas, landscaping and embankments. See CSI section 31 23 16 36-0032 for spreading material by hand.		
31 24 13 00-0015 CY Spread And Shape Imported Or Stockpiled Material For Roadways, Parking Areas, Landscaping and Embankments By Machine.....	7.89	
For Up To 20, Add	7.89	
For >20 To 50, Add	5.92	
For >50 To 250, Add	3.16	
For >250 To 500, Add	1.18	
For >1,000, Deduct	-1.18	
<b>31 24 13 00-0016 Grading</b> <small>(31 24 13 00-0001)</small>		
Note: For roadways, parking areas, landscaping and embankments by machine.		
31 24 13 00-0017 SY Rough Grade Roadway, Parking Areas, Landscaping And Embankments By Machine.....	0.80	
31 24 13 00-0018 SY Finish Grade Roadway, Parking Areas, Landscaping And Embankments By Machine.....	1.06	
31 24 13 00-0019 LF Finish Grade For Curb.....	1.19	
31 24 13 00-0020 LF Finish Grade For Curb And Gutter.....	1.47	
<b>31 24 13 00-0021 Compaction Of Fill Or Subbase</b> <small>(31 24 13 00-0001)</small>		
Note: For roadways, parking areas, landscaping and embankments by machine, per lift.		
31 24 13 00-0022 SY Compaction Of Fill Or Subbase For Roadways, Parking Areas, Landscaping And Embankments By Machine Per Lift.....	0.72	
For Up To 250, Add	0.72	
For >250 To 500, Add	0.54	
For >500 To 1,000, Add	0.29	
For >5,000, Deduct	-0.11	
<b>31 24 13 00-0023 Loading Excess Material For Removal From Excavation</b> <small>(31 24 13 00-0001)</small>		
Note: For roadways, parking areas, landscaping and embankments by machine. Includes hand work by laborer for clean-up.		
31 24 13 00-0024 CY Load Excess Material For Removal For Roadways, Parking Areas, Landscaping and Embankments by Machine.....	6.11	
For Up To 20, Add	6.11	
For >20 To 50, Add	4.58	
For >50 To 250, Add	2.44	
For >250 To 500, Add	0.92	
For >1,000, Deduct	-0.92	
<b>31 25 Erosion and Sedimentation Controls</b> <small>(31 20)</small>		
<b>31 25 14 Stabilization Measures for Erosion and Sedimentation Control</b> <small>(31 25)</small>		
<b>31 25 14 13 Hydraulically-Applied Erosion Control</b> <small>(31 25 14)</small>		
<b>31 25 14 13-0001 Bonded Fiber Matrix</b> <small>(31 25 14 13)</small>		
31 25 14 13-0002 MSF Up To 25,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	61.42	
31 25 14 13-0003 MSF >25,000 To 50,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	56.47	
31 25 14 13-0004 MSF >50,000 To 100,000 SF Bonded Fiber Matrix, Hydraulically Applied.....	52.27	
31 25 14 13-0005 MSF >100,000 Bonded Fiber Matrix, Hydraulically Applied.....	49.88	
<b>31 25 14 16 Rolled Erosion Control Mats and Blankets</b> <small>(31 25 14)</small>		
Note: Includes all staples and stakes for erosion control blankets and turf reinforcement mats.		
<b>31 25 14 16-0001 Erosion Control Blankets And Turf Reinforcement Mats</b> <small>(31 25 14 16)</small>		
<b>31 25 14 16-0002 Erosion Control Blankets, Short Term, Light Duty</b> <small>(31 25 14 16-0001)</small>		
31 25 14 16-0003 SY S75 Single Net Erosion Control Blanket.....	3.04	
Note: Straw matrix with degradable thread to a single standard photodegradable polypropylene netting as manufactured by North American Green.		
31 25 14 16-0004 SY S75BN Single Net Erosion Control Blanket.....	3.94	
Note: Straw Matrix with Biodegradable Thread to a Single Natural Fiber Netting as manufactured by North American Green.		
31 25 14 16-0005 SY Curlex 1, Single Net Erosion Control Blanket.....	2.88	
Note: As manufactured by American Excelsior		

**31 Earthwork****31 20 Earth Moving****31 25 Erosion and Sedimentation Controls**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 25 14 16-0006 SY Curlex 1, Single Net Erosion Control Blanket ..... Note: As manufactured by American Green.	3.04	
31 25 14 16-0007 SY Futerra Erosion Control Blanket, Wood Fibers With Biodegradable Netting.....	2.69	
<b>31 25 14 16-0008 Erosion Control Blankets, Intermediate Duration (31 25 14 16-0001)</b>		
31 25 14 16-0009 SY S150 Double Net Erosion Control Blanket..... Note: Straw matrix with degradable thread to a double standard photodegradable polypropylene netting as manufactured by North American Green.	3.93	
31 25 14 16-0010 SY S150 BN Double Net Erosion Control Blanket..... Note: Straw matrix with biodegradable thread to a double natural fiber netting as manufactured by North American Green.	5.34	
31 25 14 16-0011 SY Curlex II, Double Net Erosion Control Blanket, Natural ..... Note: As manufactured by American Excelsior.	3.26	
31 25 14 16-0012 SY Curlex II, Double Net Erosion Control Blanket, Green ..... Note: As manufactured by American Excelsior.	3.42	
31 25 14 16-0013 SY Enforcer Double Net Erosion Control Blanket..... Note: As manufactured by American Excelsior.	3.65	
<b>31 25 14 16-0014 Turf Reinforcement Mats (TRM) (31 25 14 16-0001)</b> Note: Permanent, UV stabilized.		
31 25 14 16-0015 SY P300 Permanent Polypropylene Turf Reinforcement Mat..... Note: 100% synthetic, UV stabilized, 2 layer netting.	14.26	
31 25 14 16-0016 SY C350 Permanent Turf Reinforcement Mat ..... Note: 100% synthetic, UV stabilized netting incorporating natural coconut fibers as manufactured by North American Green.	13.09	
31 25 14 16-0017 SY Recyclex TRM, Permanent Turf Reinforcement Mat ..... Note: As manufactured by American Excelsior, 100% recycled	16.30	
<b>31 25 14 16-0018 Jute Mesh Erosion Control Blankets (31 25 14 16-0001)</b>		
31 25 14 16-0019 SY Jute Mesh, Open Uniform Weave.....	5.52	
<b>31 25 14 16-0020 Revegetation Mat (31 25 14 16-0001)</b>		
31 25 14 16-0021 SY 3-Dimensional Webbed Revegetation Mat, Polyolefin Fiber ..... Note: Polyolefin fibers oriented and mechanically bonded between two nets. Landlok TRM 450 or equal.	11.26	
31 25 14 16-0022 SY Webbed Revegetation Mat, Polypropylene Fiber..... Note: Polypropylene fibers positioned between two high strength biaxially oriented nets and mechanically held together by parallel stitching with polypropylene thread. Landlok TRM 1060 or equal.	16.15	
<b>31 25 14 23 Stabilization Measures for Erosion Control (31 25 14)</b> See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.		
<b>31 25 14 23-0001 Sand Bags (31 25 14 23)</b> Note: Bags filled on site with delivered material. Includes material and placement of bags.		
31 25 14 23-0002 BAG 50 LB Capacity Sand Bag With Sand ..... For >2,500 To 5,000, Deduct For >5,000, Deduct	6.44 -0.53 -1.18	2.67
31 25 14 23-0003 BAG 75 LB Capacity Sand Bag With Sand ..... For >2,500 To 5,000, Deduct For >5,000, Deduct	8.32 -0.66 -1.49	3.31
31 25 14 23-0004 BAG 100 LB Capacity Sand Bag With Sand ..... For >2,500 To 5,000, Deduct For >5,000, Deduct	10.53 -0.79 -1.85	3.96
31 25 14 23-0005 BAG 125 LB Capacity Sand Bag With Sand ..... For >2,500 To 5,000, Deduct For >5,000, Deduct	12.95 -0.99 -2.29	4.95
31 25 14 23-0006 BAG 150 LB Capacity Sand Bag With Sand ..... For >2,500 To 5,000, Deduct For >5,000, Deduct	15.78 -1.19 -2.77	5.94
31 25 14 23-0007 BAG 175 LB Capacity Sand Bag With Sand ..... For >2,500 To 5,000, Deduct For >5,000, Deduct	18.42 -1.35 -3.19	6.75
31 25 14 23-0008 BAG 2,000 LB Capacity Sand Bag With Sand ..... For >2,500 To 5,000, Deduct For >5,000, Deduct	154.17 -9.13 -24.55	48.14
31 25 14 23-0009 BAG 3,000 LB Capacity Sand Bag With Sand ..... For >2,500 To 5,000, Deduct For >5,000, Deduct	199.79 -10.05 -30.03	52.95
<b>31 25 14 23-0010 Gravel Bags (31 25 14 23)</b> Note: Bags filled on site with delivered material. Includes material and placement of bags.		
31 25 14 23-0011 BAG 30 LB Capacity Gravel Bag With Gravel ..... For >2,500 To 5,000, Deduct For >5,000, Deduct	7.07 -0.35 -1.06	1.78
31 25 14 23-0012 BAG 50 LB Capacity Gravel Bag With Gravel..... For >2,500 To 5,000, Deduct For >5,000, Deduct	12.54 -0.53 -1.79	2.67



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Erosion and Sedimentation Controls</b>	<b>31 25</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>31 25 14 23-0013</b>	<b>Floating Turbidity Curtain</b> <small>(31 25 14 23)</small>	
	Note: Type 2 DOT fabric - 18 oz. nominal laminated vinyl/polyester. EPS flotation, 6 in. x 6 in., 13.5 lb./ft. buoyancy in fresh water and 14.4 lb./ft buoyancy in saltwater.	
31 25 14 23-0014	LF 3' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	27.09
	For Type 1, Deduct	-4.23
	For 13 Oz PVC Fabric, Type 2, Deduct	-2.58
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	3.13
31 25 14 23-0015	LF 4' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	29.37
	For Type 1, Deduct	-4.66
	For 13 Oz PVC Fabric, Type 2, Deduct	-2.84
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	3.44
31 25 14 23-0016	LF 5' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	32.52
	For Type 1, Deduct	-5.28
	For 13 Oz PVC Fabric, Type 2, Deduct	-3.21
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	3.90
31 25 14 23-0017	LF 6' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	35.21
	For Type 1, Deduct	-5.79
	For 13 Oz PVC Fabric, Type 2, Deduct	-3.52
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.28
31 25 14 23-0018	LF 7' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	36.95
	For Type 1, Deduct	-6.07
	For 13 Oz PVC Fabric, Type 2, Deduct	-3.69
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.49
31 25 14 23-0019	LF 8' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	38.69
	For Type 1, Deduct	-6.35
	For 13 Oz PVC Fabric, Type 2, Deduct	-3.87
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.70
31 25 14 23-0020	LF 9' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	40.72
	For Type 1, Deduct	-6.69
	For 13 Oz PVC Fabric, Type 2, Deduct	-4.07
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	4.95
31 25 14 23-0021	LF 10' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	43.51
	For Type 1, Deduct	-7.20
	For 13 Oz PVC Fabric, Type 2, Deduct	-4.38
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.32
31 25 14 23-0022	LF 12' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	45.72
	For Type 1, Deduct	-7.57
	For 13 Oz PVC Fabric, Type 2, Deduct	-4.61
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.59
31 25 14 23-0023	LF 13' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	48.70
	For Type 1, Deduct	-8.10
	For 13 Oz PVC Fabric, Type 2, Deduct	-4.93
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	5.99
31 25 14 23-0024	LF 14' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	51.45
	For Type 1, Deduct	-8.58
	For 13 Oz PVC Fabric, Type 2, Deduct	-5.22
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.34
31 25 14 23-0025	LF 15' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	54.13
	For Type 1, Deduct	-9.03
	For 13 Oz PVC Fabric, Type 2, Deduct	-5.50
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	6.68
31 25 14 23-0026	LF 16' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	58.92
	For Type 1, Deduct	-9.97
	For 13 Oz PVC Fabric, Type 2, Deduct	-6.07
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.37
31 25 14 23-0027	LF 17' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	61.78
	For Type 1, Deduct	-10.45
	For 13 Oz PVC Fabric, Type 2, Deduct	-6.36
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	7.72
31 25 14 23-0028	LF 18' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	64.57
	For Type 1, Deduct	-10.90
	For 13 Oz PVC Fabric, Type 2, Deduct	-6.63
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	8.05
31 25 14 23-0029	LF 19' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	67.52
	For Type 1, Deduct	-11.38
	For 13 Oz PVC Fabric, Type 2, Deduct	-6.93
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	8.41
31 25 14 23-0030	LF 20' High, 18 Oz PVC Coated Polyester, Type 2 DOT Turbidity Curtain.....	70.38
	For Type 1, Deduct	-11.83
	For 13 Oz PVC Fabric, Type 2, Deduct	-7.20
	For 22 Oz PVC Fabric, Type 2 Heavy Duty, Add	8.74

<b>31 25 14 23-0031</b>	<b>Turbidity Curtain Anchors</b> <small>(31 25 14 23)</small>	
31 25 14 23-0032	EA 14 LB, Turbidity Curtain Anchor System.....	732.97
	Note: Includes anchor, anchor chain, and marker buoy and rope.	
31 25 14 23-0033	EA 25 LB, Turbidity Curtain Anchor System.....	1,005.32
	Note: Includes anchor, anchor chain, and marker buoy and rope.	
31 25 14 23-0034	EA 40 LB, Turbidity Curtain Anchor System.....	1,278.86
	Note: Includes anchor, anchor chain, and marker buoy and rope.	
31 25 14 23-0035	EA 65 LB, Turbidity Curtain Anchor System.....	1,672.87
	Note: Includes anchor, anchor chain, and marker buoy and rope.	

31 25 14 23-0036 Filter Bags (31 25 14 23)

<b>31</b>	<b>31</b>	<b>Earthwork</b>
	<b>31 20</b>	<b>Earth Moving</b>
	<b>31 25</b>	<b>Erosion and Sedimentation Controls</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>31 25 14 23-0037</b>	<b>Non-Woven Filter Bags</b> <small>(31 25 14 23-0036)</small>	
31 25 14 23-0038	EA 6' x 15' Non-Woven Filter Bag .....	247.02
31 25 14 23-0039	EA 13' x 15' Non-Woven Filter Bag .....	357.60
31 25 14 23-0040	EA 15' x 15' Non-Woven Filter Bag .....	410.95

<b>31 25 14 23-0041</b>	<b>Monofilament Filter Bags</b> <small>(31 25 14 23-0036)</small>	
31 25 14 23-0042	EA 5' x 15' Monofilament Filter Bag .....	256.88
31 25 14 23-0043	EA 10' x 15' Monofilament Filter Bag .....	355.85

<b>31 25 14 23-0044</b>	<b>Cable Articulating Concrete Block</b> <small>(31 25 14 23)</small>	
	<small>Note: 4000 PSI Compressive strength, 12 LB/CF maximum absorption. Interlocking block with longitudinal revetment cable. Includes anchoring block to 12" x 12" x 6" concrete pier every 5' with anchor and filling cells with stockpiled material. Excludes site preparation and imported materials.</small>	
31 25 14 23-0045	SF 4.75" Open Cell Articulated Concrete Block With Earth Backfill .....	45.62
	<i>For Up To 500, Add</i>	10.21
	<i>For &gt;500 To 1,000, Add</i>	5.65
31 25 14 23-0046	SF 6" Open Cell Articulated Concrete Block With Earth Backfill .....	52.36
	<i>For Up To 500, Add</i>	11.65
	<i>For &gt;500 To 1,000, Add</i>	6.42
31 25 14 23-0047	SF 7.5" Open Cell Articulated Concrete Block With Earth Backfill .....	60.07
	<i>For Up To 500, Add</i>	13.32
	<i>For &gt;500 To 1,000, Add</i>	7.31
31 25 14 23-0048	SF 9" Open Cell Articulated Concrete Block With Earth Backfill .....	67.80
	<i>For Up To 500, Add</i>	15.01
	<i>For &gt;500 To 1,000, Add</i>	8.23
31 25 14 23-0049	SF 4.75" Closed Cell Articulated Concrete Block .....	49.22
	<i>For Up To 500, Add</i>	10.93
	<i>For &gt;500 To 1,000, Add</i>	6.01
31 25 14 23-0050	SF 6" Closed Cell Articulated Concrete Block .....	56.67
	<i>For Up To 500, Add</i>	12.52
	<i>For &gt;500 To 1,000, Add</i>	6.85
31 25 14 23-0051	SF 7.5" Closed Cell Articulated Concrete Block .....	65.18
	<i>For Up To 500, Add</i>	14.34
	<i>For &gt;500 To 1,000, Add</i>	7.82
31 25 14 23-0052	SF 9" Closed Cell Articulated Concrete Block .....	73.65
	<i>For Up To 500, Add</i>	16.18
	<i>For &gt;500 To 1,000, Add</i>	8.81

**31 25 14 26 Stabilization Measures for Sedimentation Control** (31 25 14)

<b>31 25 14 26-0001</b>	<b>Silt Fences And Dike Barriers</b> <small>(31 25 14 26)</small>	
	<small>Note: Includes stakes and embedding.</small>	
<b>31 25 14 26-0002</b>	<b>Silt Fences 2' High</b> <small>(31 25 14 26-0001)</small>	
	<small>See CSI section 31 25 14 26-0014 for removal of silt fence.</small>	
31 25 14 26-0003	LF 2' High Silt Fence with Stakes at 4' On Center .....	4.19
31 25 14 26-0004	LF 2' High Silt Fence with Stakes at 6' On Center .....	3.37
31 25 14 26-0005	LF 2' High Silt Fence with Stakes at 8' On Center .....	2.51
31 25 14 26-0006	LF 2' High Silt Fence with Stakes at 10' On Center .....	2.27

<b>31 25 14 26-0007</b>	<b>Silt Fences 3' High</b> <small>(31 25 14 26-0001)</small>	
	<small>See CSI section 31 25 14 26-0014 for removal of silt fence.</small>	
31 25 14 26-0008	LF 3' High Silt Fence with Stakes at 4' On Center .....	4.42
31 25 14 26-0009	LF 3' High Silt Fence with Stakes at 6' On Center .....	3.81
31 25 14 26-0010	LF 3' High Silt Fence with Stakes at 8' On Center .....	2.68
31 25 14 26-0011	LF 3' High Silt Fence with Stakes at 10' On Center .....	2.43

<b>31 25 14 26-0012</b>	<b>Silt Dike Barrier</b> <small>(31 25 14 26-0001)</small>	
31 25 14 26-0013	LF Silt Dike Barrier With Stakes .....	6.00

<b>31 25 14 26-0014</b>	<b>Silt Fences Removal</b> <small>(31 25 14 26-0001)</small>	
31 25 14 26-0015	LF Removal Of Silt Fence And Stakes .....	0.84

<b>31 25 14 26-0016</b>	<b>Hay And Straw Bales</b> <small>(31 25 14 26)</small>	
	<small>Note: Includes trench for placement, and stakes.</small>	
31 25 14 26-0017	LF Place Sterilized Straw Bales .....	5.46
	<small>Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0019 for removal of straw bale.</small>	
31 25 14 26-0018	LF Place Hay Bales .....	4.97
	<small>Note: Includes securing in ground with stakes. See CSI section 31 25 14 26-0019 for removal of hay bale.</small>	
31 25 14 26-0019	LF Removal Of Hay Or Straw Bales .....	1.51
	<small>Note: Includes removal of stakes.</small>	

<b>31 25 14 26-0020</b>	<b>Sediment Logs (Degradable)</b> <small>(31 25 14 26)</small>	
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<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earth Moving</b>	<b>31 20</b>	
<b>Erosion and Sedimentation Controls</b>	<b>31 25</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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31 25 14 26-0021	<b>Sediment Logs (Degradable)</b> <small>(31 25 14 26-0020)</small>		
	Note: Includes stakes and removal after use. Curlex sediment logs as manufactured by American Excelsior.		
31 25 14 26-0022	LF	9" Sediment Fiber Roll Log .....	6.98
31 25 14 26-0023	LF	12" Sediment Fiber Roll Log .....	8.16
31 25 14 26-0024	LF	20" Sediment Fiber Roll Log .....	13.02

31 25 14 26-0025	<b>Wattles (Degradable) With UV Stabilized Synthetic Netting</b> <small>(31 25 14 26-0020)</small>		
	Note: Includes trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0026	EA	Wattles (Sterile Straw Filled Rolls), 8" x 25' .....	128.02
31 25 14 26-0027	EA	Wattles (Sterile Straw Filled Rolls), 9" x 25' .....	136.22
31 25 14 26-0028	EA	Wattles (Sterile Straw Filled Rolls), 12" x 20' .....	151.69
31 25 14 26-0029	EA	Wattles (Sterile Straw Filled Rolls), 20" x 10' .....	177.32

31 25 14 26-0030	<b>Fiber Roll (CALTRANS Type 1)</b> <small>(31 25 14 26)</small>		
	Note: Includes furrow trench for placement, 24" wood staking at 4' on-center		
31 25 14 26-0031	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	6.70
		<i>For &gt;1,000 To 10,000, Deduct</i>	-0.75
		<i>For &gt;10,000, Deduct</i>	-1.27
31 25 14 26-0032	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	7.07
		<i>For &gt;1,000 To 10,000, Deduct</i>	-0.77
		<i>For &gt;10,000, Deduct</i>	-1.30
31 25 14 26-0033	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 1.....	9.59
		<i>For &gt;1,000 To 10,000, Deduct</i>	-0.93
		<i>For &gt;10,000, Deduct</i>	-1.59

31 25 14 26-0034	<b>Fiber Roll (CALTRANS Type 2)</b> <small>(31 25 14 26)</small>		
	Note: Includes 24" wood stakes at 2' on-center off-set on sides with ropes.		
31 25 14 26-0035	LF	8" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.42
		<i>For &gt;1,000 To 10,000, Deduct</i>	-0.56
		<i>For &gt;10,000, Deduct</i>	-0.95
31 25 14 26-0036	LF	9" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	5.96
		<i>For &gt;1,000 To 10,000, Deduct</i>	-0.60
		<i>For &gt;10,000, Deduct</i>	-1.02
31 25 14 26-0037	LF	12" Diameter Fiber Roll, (Sterile Straw Filled Rolls, With Natural Fiber Wrapping), CALTRANS Type 2.....	7.89
		<i>For &gt;1,000 To 10,000, Deduct</i>	-0.68
		<i>For &gt;10,000, Deduct</i>	-1.16

31 25 14 26-0038	<b>Inlet Protection Sediment Bags</b> <small>(31 25 14 26)</small>		
	Note: Includes removal, cleaning, and replacement per each location.		
31 25 14 26-0039	EA	2' x 2' x 3' Inlet Protection Sediment Bag .....	83.45
31 25 14 26-0040	EA	2' x 3' x 3' Inlet Protection Sediment Bag .....	97.94
31 25 14 26-0041	EA	2' x 4' x 3' Inlet Protection Sediment Bag .....	106.96

**31 30 Earthwork Methods** (31)

**31 31 Soil Treatment** (31 30)

**31 31 16 Termite Control** (31 31)

**31 31 16 13 Chemical Termite Control** (31 31 16)

**31 31 16 13-0001 Commercial Use** (31 31 16 13)

31 31 16 13-0002	SF	Termite Pretreatment, Commercial Soil Poisoning Under Slab .....	1.07
31 31 16 13-0003	SF	Termite Pretreatment, Commercial Slab And Walls.....	1.49

**31 31 16 13-0004 Residential Use** (31 31 16 13)

31 31 16 13-0005	SF	Termite Pretreatment, Residential General Spraying Walls And Slab .....	1.49
31 31 16 13-0006	SF	Termite Treatment, Existing Residential Structure.....	1.62

**31 31 19 Vegetation Control** (31 31)

**31 31 19 13 Chemical Vegetation Control** (31 31 19)

**31 31 19 13-0001 Soil Sterilants** (31 31 19 13)

31 31 19 13-0002	MSF	Soil Sterilant.....	32.30
		Note: Use only in areas where complete control of all vegetation is desired, such as industrial sites, right-of-way, lumberyards, petroleum tank farms, around farm buildings, along fence lines, etc. When applied to the soil, this product usually inhibits plant growth for a year or more.	
		<i>For &gt;45 To 90, Deduct</i>	-0.46
		<i>For &gt;90 To 225, Deduct</i>	-2.54
		<i>For &gt;225, Deduct</i>	-3.46

**31 32 Soil Stabilization** (31 30)

<b>31</b>	<b>Earthwork</b>
<b>31 30</b>	<b>Earthwork Methods</b>
<b>31 32</b>	<b>Soil Stabilization</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

### 31 32 13 Soil Mixing Stabilization <sup>(31 32)</sup>

#### 31 32 13 16 Cement Soil Stabilization <sup>(31 32 13)</sup>

##### 31 32 13 16-0001 Cementitious Soil Binder <sup>(31 32 13 16)</sup>

31 32 13 16-0002	CY	Cementitious Soil Binder, 4% Cement Mix By Volume	43.79
31 32 13 16-0003	CY	Cementitious Soil Binder, 5% Cement Mix By Volume	48.26
31 32 13 16-0004	CY	Cementitious Soil Binder, 6% Cement Mix By Volume	51.72
31 32 13 16-0005	CY	Cementitious Soil Binder, 7% Cement Mix By Volume	56.02
31 32 13 16-0006	CY	Cementitious Soil Binder, 9% Cement Mix By Volume	64.77
31 32 13 16-0007	CY	Cementitious Soil Binder, 12% Cement Mix By Volume	77.63

#### 31 32 13 19 Lime Soil Stabilization <sup>(31 32 13)</sup>

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. The price excludes the cost for spreading or backfilling. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

##### 31 32 13 19-0001 Lime Slurry <sup>(31 32 13 19)</sup>

31 32 13 19-0002	LCY	Soil Stabilization With Lime Slurry 10% Lime Slurry By Volume	39.23
31 32 13 19-0003	TON	Cement Stabilized Base Material	244.45
31 32 13 19-0004	CWT	Lime For Soil Stabilization	41.58
		Note: Excludes the cost for spreading or backfilling	
31 32 13 19-0005	LCY	Roller, Grader - Lime Stabilization	19.37
31 32 13 19-0006	LCY	Roller, Grader - Cement Stabilization	4.34

##### 31 32 13 19-0007 Lime Stabilized Subgrade <sup>(31 32 13 19)</sup>

Note: Based on soil weight of 110 LB/CF using lime weight of 5.5 LB/CF (5%).

31 32 13 19-0008	SY	6" Thick Lime Stabilized Subgrade, 25 LB	19.93
		For 4% Lime Instead Of 5%, Deduct	-0.74
		For 6% Lime Instead Of 5%, Add	0.74
31 32 13 19-0009	SY	7" Thick Lime Stabilized Subgrade, 29 LB	23.07
		For 4% Lime Instead Of 5%, Deduct	-0.85
		For 6% Lime Instead Of 5%, Add	0.85
31 32 13 19-0010	SY	8" Thick Lime Stabilized Subgrade, 33 LB	26.31
		For 4% Lime Instead Of 5%, Deduct	-0.97
		For 6% Lime Instead Of 5%, Add	0.97

#### 31 32 13 29 Liquid Soil Stabilization <sup>(31 32 13)</sup>

31 32 13 29-0001	GAL	Polyacrylamide And Calcium Solution	3.50
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### 31 32 19 Geosynthetic Soil Stabilization and Layer Separation <sup>(31 32)</sup>

#### 31 32 19 13 Geogrid Soil Stabilization <sup>(31 32 19)</sup>

##### 31 32 19 13-0001 Geogrid Fabrics <sup>(31 32 19 13)</sup>

Note: For reinforcement of over steepened earth slopes, segmental retaining walls and other mechanically stabilized earth applications.

31 32 19 13-0002	SY	5.3 Ounce/SY, 1,700 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-150)	5.40
		For Up To 50, Add	1.19
		For >50 To 150, Add	0.88
		For >150 To 250, Add	0.58
		For >250 To 500, Add	0.29
31 32 19 13-0003	SY	6.9 Ounce/SY, 3,100 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-300)	6.16
		For Up To 50, Add	1.34
		For >50 To 150, Add	1.00
		For >150 To 250, Add	0.65
		For >250 To 500, Add	0.33
31 32 19 13-0004	SY	8.7 Ounce/SY, 4,280 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-500)	6.73
		For Up To 50, Add	1.46
		For >50 To 150, Add	1.09
		For >150 To 250, Add	0.71
		For >250 To 500, Add	0.36
31 32 19 13-0005	SY	12.6 Ounce/SY, 7,315 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-800)	9.71
		For Up To 50, Add	2.06
		For >50 To 150, Add	1.54
		For >150 To 250, Add	1.01
		For >250 To 500, Add	0.51
31 32 19 13-0006	SY	14.1 Ounce/SY, 9,790 LB/FT Wide Width Tensile Ultimate Bi-Directional Woven Polyester Geogrid Fabric (Carthage Mills GX-1000)	11.11
		For Up To 50, Add	2.35
		For >50 To 150, Add	1.75
		For >150 To 250, Add	1.15
		For >250 To 500, Add	0.58



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earthwork Methods</b>	<b>31 30</b>	
<b>Soil Stabilization</b>	<b>31 32</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 13-0007 SY 4.3 Ounce/SY, 1,658 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 20) .....	5.49	
<i>For Up To 50, Add</i>	1.20	
<i>For &gt;50 To 150, Add</i>	0.89	
<i>For &gt;150 To 250, Add</i>	0.58	
<i>For &gt;250 To 500, Add</i>	0.29	
31 32 19 13-0008 SY 5.9 Ounce/SY, 2,192 LB/FT Wide Width Tensile Ultimate Bi-Axial Extruded Polypropylene Geogrid Fabric (Carthage Mills Enkagrid Max 30) .....	8.10	
<i>For Up To 50, Add</i>	1.73	
<i>For &gt;50 To 150, Add</i>	1.29	
<i>For &gt;150 To 250, Add</i>	0.85	
<i>For &gt;250 To 500, Add</i>	0.42	
<b>31 32 19 16 Geotextile Soil Stabilization (31 32 19)</b>		
<b>31 32 19 16-0001 Nonwoven Polypropylene Geotextiles (31 32 19 16)</b>		
Note: For drainage, filtration and separation.		
31 32 19 16-0002 SY 3.0 Ounce/SY, 40 Mil, 80 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-30HS).....	1.67	
<i>For Up To 50, Add</i>	0.37	
<i>For &gt;50 To 150, Add</i>	0.28	
<i>For &gt;150 To 250, Add</i>	0.18	
<i>For &gt;250 To 500, Add</i>	0.09	
31 32 19 16-0003 SY 3.5 Ounce/SY, 50 Mil, 95 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-35HS).....	1.79	
<i>For Up To 50, Add</i>	0.40	
<i>For &gt;50 To 150, Add</i>	0.29	
<i>For &gt;150 To 250, Add</i>	0.19	
<i>For &gt;250 To 500, Add</i>	0.10	
31 32 19 16-0004 SY 4.0 Ounce/SY, 60 Mil, 115 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-40HS).....	1.94	
<i>For Up To 50, Add</i>	0.43	
<i>For &gt;50 To 150, Add</i>	0.32	
<i>For &gt;150 To 250, Add</i>	0.21	
<i>For &gt;250 To 500, Add</i>	0.10	
31 32 19 16-0005 SY 4.5 Ounce/SY, 55 Mil, 120 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-45HS).....	2.09	
<i>For Up To 50, Add</i>	0.46	
<i>For &gt;50 To 150, Add</i>	0.34	
<i>For &gt;150 To 250, Add</i>	0.22	
<i>For &gt;250 To 500, Add</i>	0.11	
31 32 19 16-0006 SY 6.0 Ounce/SY, 70 Mil, 160 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-60HS).....	2.49	
<i>For Up To 50, Add</i>	0.54	
<i>For &gt;50 To 150, Add</i>	0.40	
<i>For &gt;150 To 250, Add</i>	0.26	
<i>For &gt;250 To 500, Add</i>	0.13	
31 32 19 16-0007 SY 7.0 Ounce/SY, 85 Mil, 180 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-70HS).....	2.92	
<i>For Up To 50, Add</i>	0.64	
<i>For &gt;50 To 150, Add</i>	0.47	
<i>For &gt;150 To 250, Add</i>	0.31	
<i>For &gt;250 To 500, Add</i>	0.15	
31 32 19 16-0008 SY 8.0 Ounce/SY, 85 Mil, 205 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-80HS).....	3.22	
<i>For Up To 50, Add</i>	0.70	
<i>For &gt;50 To 150, Add</i>	0.52	
<i>For &gt;150 To 250, Add</i>	0.34	
<i>For &gt;250 To 500, Add</i>	0.17	
31 32 19 16-0009 SY 10 Ounce/SY, 115 Mil, 250 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric (Carthage Mills FX-100HS) .....	3.98	
<i>For Up To 50, Add</i>	0.85	
<i>For &gt;50 To 150, Add</i>	0.63	
<i>For &gt;150 To 250, Add</i>	0.42	
<i>For &gt;250 To 500, Add</i>	0.21	
31 32 19 16-0010 SY 16 Ounce/SY, 175 Mil, 425 LB Grab Tensile Nonwoven Polypropylene Geotextile Fabric.....	6.78	
<i>For Up To 50, Add</i>	1.41	
<i>For &gt;50 To 150, Add</i>	1.05	
<i>For &gt;150 To 250, Add</i>	0.70	
<i>For &gt;250 To 500, Add</i>	0.35	
<b>31 32 19 16-0011 Woven Geotextiles Fabric (31 32 19 16)</b>		
31 32 19 16-0012 SY 200 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-55) .....	2.43	
<i>For Up To 50, Add</i>	0.53	
<i>For &gt;50 To 150, Add</i>	0.39	
<i>For &gt;150 To 250, Add</i>	0.26	
<i>For &gt;250 To 500, Add</i>	0.13	
31 32 19 16-0013 SY 315 LB Grab Tensile Woven Slit Film Geotextile Fabric (Carthage Mills FX-66) .....	3.42	
<i>For Up To 50, Add</i>	0.72	
<i>For &gt;50 To 150, Add</i>	0.54	
<i>For &gt;150 To 250, Add</i>	0.36	
<i>For &gt;250 To 500, Add</i>	0.18	
31 32 19 16-0014 SY 4 To 6% Open Area, 370 x 250 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 6%).....	6.06	
<i>For Up To 50, Add</i>	1.26	
<i>For &gt;50 To 150, Add</i>	0.94	
<i>For &gt;150 To 250, Add</i>	0.62	
<i>For &gt;250 To 500, Add</i>	0.31	

<b>31</b>	<b>Earthwork</b>
<b>31 30</b>	<b>Earthwork Methods</b>
<b>31 32</b>	<b>Soil Stabilization</b>



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 32 19 16-0015	SY	11 To 15% Open Area, 370 x 220 LB Grab Tensile Woven Monofilament Geotextile Fabric (Carthage Mills Carthage 15%) .....	5.91	
		<i>For Up To 50, Add</i> .....	1.23	
		<i>For &gt;50 To 150, Add</i> .....	0.92	
		<i>For &gt;150 To 250, Add</i> .....	0.61	
		<i>For &gt;250 To 500, Add</i> .....	0.30	
31 32 19 16-0016	SY	6.9 Oz/SY, 250 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-250TF) .....	5.16	
		<i>For Up To 50, Add</i> .....	1.08	
		<i>For &gt;50 To 150, Add</i> .....	0.81	
		<i>For &gt;150 To 250, Add</i> .....	0.53	
		<i>For &gt;250 To 500, Add</i> .....	0.27	
31 32 19 16-0017	SY	9.1 Oz/SY, 333 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-330TF) .....	5.52	
		<i>For Up To 50, Add</i> .....	1.16	
		<i>For &gt;50 To 150, Add</i> .....	0.86	
		<i>For &gt;150 To 250, Add</i> .....	0.57	
		<i>For &gt;250 To 500, Add</i> .....	0.28	
31 32 19 16-0018	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Twill Weave Geotextile Fabric (Carthage Mills FX-400TF) .....	7.06	
		<i>For Up To 50, Add</i> .....	1.46	
		<i>For &gt;50 To 150, Add</i> .....	1.09	
		<i>For &gt;150 To 250, Add</i> .....	0.72	
		<i>For &gt;250 To 500, Add</i> .....	0.36	
31 32 19 16-0019	SY	12.1 Oz/SY, 400 LB/IN Wide Width Tensile Ultimate Woven Monofilament And Fibrillated Geotextile Fabric (Carthage Mills FX-400MF) .....	10.08	
		<i>For Up To 50, Add</i> .....	2.07	
		<i>For &gt;50 To 150, Add</i> .....	1.55	
		<i>For &gt;150 To 250, Add</i> .....	1.03	
		<i>For &gt;250 To 500, Add</i> .....	0.51	
31 32 19 16-0020		<b>Geomembranes</b> <small>(31 32 19 16)</small>		
31 32 19 16-0021		<b>Polyvinyl Chloride (PVC) Geomembrane</b> <small>(31 32 19 16-0020)</small>		
31 32 19 16-0022	SF	20 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics) .....	1.42	
31 32 19 16-0023	SF	30 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics) .....	1.64	
31 32 19 16-0024	SF	40 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics) .....	1.98	
31 32 19 16-0025	SF	50 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics) .....	2.39	
31 32 19 16-0026	SF	60 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics) .....	2.74	
31 32 19 16-0027	SF	70 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics) .....	2.99	
31 32 19 16-0028	SF	80 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics) .....	3.25	
31 32 19 16-0029	SF	90 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics) .....	3.60	
31 32 19 16-0030	SF	100 Mil Polyvinyl Chloride (PVC) Geomembrane (US Fabrics) .....	3.92	
31 32 19 16-0031		<b>High Density Polyethylene (HDPE) Geomembrane</b> <small>(31 32 19 16-0020)</small>		
31 32 19 16-0032	SF	20 Mil High Density Polyethylene Membrane (US Fabrics) .....	1.56	
31 32 19 16-0033	SF	30 Mil High Density Polyethylene Membrane (US Fabrics) .....	0.94	
31 32 19 16-0034	SF	40 Mil High Density Polyethylene Membrane (US Fabrics) .....	1.04	
31 32 19 16-0035	SF	50 Mil High Density Polyethylene Membrane (US Fabrics) .....	1.46	
31 32 19 16-0036	SF	60 Mil High Density Polyethylene Membrane (US Fabrics) .....	1.22	
31 32 19 16-0037	SF	80 Mil High Density Polyethylene Membrane (US Fabrics) .....	1.41	
31 32 19 16-0038	SF	100 Mil High Density Polyethylene Membrane (US Fabrics) .....	1.61	
31 32 19 16-0039	SF	120 Mil High Density Polyethylene Membrane (US Fabrics) .....	2.59	
31 32 19 16-0040	SF	140 Mil High Density Polyethylene Membrane (US Fabrics) .....	2.68	
31 32 19 26		<b>Geoweb Cellular Confinement System</b> <small>(31 32 19)</small>		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0001		<b>Geoweb Cellular Confinement System</b> <small>(31 32 19 26)</small>		
		Note: Includes staples, stakes and filling cells with stockpiled material. Excludes site preparation and imported materials.		
31 32 19 26-0002	SF	4" Geoweb Cellular Confinement System (Presto Geosystems) .....	7.48	
		<i>For &gt;20,000, Deduct</i> .....	-0.19	
		<i>For &gt;2:1 Slope, Add</i> .....	1.20	
31 32 19 26-0003	SF	6" Geoweb Cellular Confinement System (Presto Geosystems) .....	9.20	
		<i>For &gt;20,000, Deduct</i> .....	-0.28	
		<i>For &gt;2:1 Slope, Add</i> .....	1.20	
31 32 19 26-0004	SF	8" Geoweb Cellular Confinement System (Presto Geosystems) .....	11.25	
		<i>For &gt;20,000, Deduct</i> .....	-0.38	
		<i>For &gt;2:1 Slope, Add</i> .....	1.20	
31 35		<b>Slope Protection</b> <small>(31 30)</small>		
31 35 19		<b>Geosynthetic Slope Protection</b> <small>(31 35)</small>		
31 35 19 19		<b>Slope Protection with Mulch Control Netting</b> <small>(31 35 19)</small>		
31 35 19 19-0001		<b>Erosion Control Fabric</b> <small>(31 35 19 19)</small>		
31 35 19 19-0002	SY	26.6 OZ/SY Erosion Control Fabric (Belton Industries Geocoir 900) .....	5.23	





<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Earthwork Methods</b>	<b>31 30</b>	
<b>Gabions</b>	<b>31 36</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**31 36 Gabions** (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, unloading and placing. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

**31 36 13 Gabion Boxes** (31 36)

**31 36 13 00-0001 Stone Filled Gabion Slope Protection** (31 36 13)

Note: Machine placed by SY of total top face area for depth indicated.

31 36 13 00-0002	SY	6" Deep Stone Filled Gabion Slope Protection .....	71.89
31 36 13 00-0003	SY	9" Deep Stone Filled Gabion Slope Protection .....	85.06
31 36 13 00-0004	SY	12" Deep Stone Filled Gabion Slope Protection .....	103.12
31 36 13 00-0005	SY	15" Deep Stone Filled Gabion Slope Protection .....	121.61
31 36 13 00-0006	SY	18" Deep Stone Filled Gabion Slope Protection .....	142.73
31 36 13 00-0007	SY	24" Deep Stone Filled Gabion Slope Protection .....	195.52
31 36 13 00-0008	SY	36" Deep Stone Filled Gabion Slope Protection .....	247.30

**31 37 Riprap** (31 30)

Note: Includes the cost for loading, hauling up to 15 miles from the closest approved source, and dumping. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

**31 37 13 Machined Riprap** (31 37)

**31 37 13 00-0001 Random - Filter Stone** (31 37 13)

31 37 13 00-0002	CY	10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	87.30
		<i>For Chinking Material, Add</i> .....	14.50
31 37 13 00-0003	CY	>50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	102.00
		<i>For Chinking Material, Add</i> .....	14.50
31 37 13 00-0004	CY	>100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	108.93
		<i>For Chinking Material, Add</i> .....	14.50
31 37 13 00-0005	CY	>200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	116.82
		<i>For Chinking Material, Add</i> .....	14.50
31 37 13 00-0006	CY	>300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	123.17
		<i>For Chinking Material, Add</i> .....	14.50
31 37 13 00-0007	CY	>600 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	133.58
31 37 13 00-0008	CY	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap .....	148.65
31 37 13 00-0009	TON	10 To 50 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	57.50
31 37 13 00-0010	TON	>50 To 100 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	66.83
31 37 13 00-0011	TON	>100 To 200 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	71.23
31 37 13 00-0012	TON	>200 To 300 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	76.24
31 37 13 00-0013	TON	>300 To 600 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	80.28
31 37 13 00-0014	TON	>600 LB Average Pieces Random, Dumped From Truck, Rip Rap .....	86.96
31 37 13 00-0015	TON	3/8 To 1/4 CY Pieces Random, Dumped From Truck, Machine Spread And Placed Slope Protection (Keyed) Rip Rap .....	99.39

**31 40 Shoring and Underpinning** (31)

**31 41 Shoring** (31 40)

**31 41 13 Timber Shoring** (31 41)

**31 41 13 00-0001 Wood Sheet Piling** (31 41 13)

**31 41 13 00-0002 Pull And Salvage** (31 41 13 00-0001)

Note: Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

31 41 13 00-0003	SF	8' Deep Excavation, Wood Shoring, Pull And Salvage .....	14.04
		<i>For Wood Sheeting Left In Place</i> .....	-0.85
31 41 13 00-0004	SF	10' Deep Excavation, Wood Shoring, Pull And Salvage .....	15.17
		<i>For Wood Sheeting Left In Place</i> .....	-1.06
31 41 13 00-0005	SF	12' Deep Excavation, Wood Shoring, Pull And Salvage .....	16.40
		<i>For Wood Sheeting Left In Place</i> .....	-1.28
31 41 13 00-0006	SF	14' Deep Excavation, Wood Shoring, Pull And Salvage .....	17.75
		<i>For Wood Sheeting Left In Place</i> .....	-1.54
31 41 13 00-0007	SF	16' Deep Excavation, Wood Shoring, Pull And Salvage .....	19.21
		<i>For Wood Sheeting Left In Place</i> .....	-1.80
31 41 13 00-0008	SF	18' Deep Excavation, Wood Shoring, Pull And Salvage .....	20.78
		<i>For Wood Sheeting Left In Place</i> .....	-2.12
31 41 13 00-0009	SF	20' Deep Excavation, Wood Shoring, Pull And Salvage .....	22.52
		<i>For Wood Sheeting Left In Place</i> .....	-2.46

**31 41 16 Sheet Piling** (31 41)

**31 41 16 13 Steel Sheet Piling** (31 41 16)

**31 41 16 13-0001 Standard Carbon Grade Steel Sheeting - Pull And Salvage** (31 41 16 13)

Note: Up to 3 months. 38.5 KSI steel per SF minimum. PSF indicated is for the weight of the material per square foot. Includes soldier beams and lagging (wales, braces and spacers). Excludes tie-backs (rock bolting) where required.

<b>31</b>	<b>31 Earthwork</b>
	<b>31 40 Shoring and Underpinning</b>
	<b>31 41 Shoring</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 41 16 13-0002 TON Driven Steel Sheet Piling, 15' Excavation, 22 PSF Steel Sheeting, Pull And Salvage.....	2,157.99	
For Standard Sheeting Left In Place, Add	1,135.30	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,091.89	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	97.69	
For High Strength Sheeting 55,000 PSI Grade, Add	108.54	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	336.49	
For Each Additional Month >3 Months, Add	54.27	
31 41 16 13-0003 TON Driven Steel Sheet Piling, 20' Excavation, 27 PSF Steel Sheeting, Pull And Salvage.....	2,245.02	
For Standard Sheeting Left In Place, Add	1,091.79	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	1,048.37	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	97.69	
For High Strength Sheeting 55,000 PSI Grade, Add	108.54	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	336.49	
For Each Additional Month >3 Months, Add	54.27	
31 41 16 13-0004 TON Driven Steel Sheet Piling, 25' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	2,649.60	
For Standard Sheeting Left In Place, Add	889.50	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	846.08	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	97.69	
For High Strength Sheeting 55,000 PSI Grade, Add	108.54	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	336.49	
For Each Additional Month >3 Months, Add	54.27	
31 41 16 13-0005 TON Driven Steel Sheet Piling, 30' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,038.91	
For Standard Sheeting Left In Place, Add	694.84	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	651.43	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	97.69	
For High Strength Sheeting 55,000 PSI Grade, Add	108.54	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	336.49	
For Each Additional Month >3 Months, Add	54.27	
31 41 16 13-0006 TON Driven Steel Sheet Piling, 35' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,267.92	
For Standard Sheeting Left In Place, Add	580.34	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	536.92	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	97.69	
For High Strength Sheeting 55,000 PSI Grade, Add	108.54	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	336.49	
For Each Additional Month >3 Months, Add	54.27	
31 41 16 13-0007 TON Driven Steel Sheet Piling, 40' Excavation, 38 PSF Steel Sheeting, Pull And Salvage.....	3,501.51	
For Standard Sheeting Left In Place, Add	463.54	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF Left In Place, Add	420.13	
For High Strength Sheeting 45,000 To 50,000 PSI Grade, Add	97.69	
For High Strength Sheeting 55,000 PSI Grade, Add	108.54	
For Lightweight Steel Sheeting 8.6 And 9.2 PSF, Add	336.49	
For Each Additional Month >3 Months, Add	54.27	

**31 43 Concrete Raising** (31 40)

**31 43 13 Pressure Grouting** (31 43)

**31 43 13 16 Polyurethane Pressure Grouting** (31 43 13)

**31 43 13 16-0001 PolyLift™ Concrete Injection For Lifting And Leveling** (31 43 13 16)

31 43 13 16-0002 EA Mobilization PolyLift™ Concrete Lifting And Leveling Minimum Charge.....	3,727.01
31 43 13 16-0003 LB Up To 1,000 Lbs PolyLift™ Concrete Injection For Lifting And Leveling.....	29.06
Note: Per pound of material.	
31 43 13 16-0004 LB >1,000 Lbs PolyLift™ Concrete Injection For Lifting And Leveling.....	24.36
Note: Per pound of material.	

**31 45 Vibroflotation and Densification** (31 40)

**31 45 13 Vibroflotation** (31 45)

31 45 13 00-0001 LCY Soil Stabilization, Vibroflotation.....	16.45
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**31 48 Underpinning** (31 40)

**31 48 33 Micropile Underpinning** (31 48)

**31 48 33 00-0001 Augered Micro-Pile And Grout System** (31 48 33)

31 48 33 00-0002 EA Micro-Pile Mobilization Per Job.....	2,578.19
31 48 33 00-0003 EA Relocate And Set-up Micro-Pile Equipment At New Pile Cap Location.....	644.55
31 48 33 00-0004 VLF Auger 8" Diameter Hole, Insert GEWI Micro-Pile And Grout Void.....	389.74
Note: Includes GEWI piles, threadbar extensions, couplers, spacers, top nut and steel bearing plate.	
31 48 33 00-0005 VLF Auger 8" Diameter Hole, Insert GEWI Micro-Pile And Grout Void - Indoor.....	470.31
Note: Includes GEWI piles, threadbar extensions, couplers, spacers, top nut and steel bearing plate.	
31 48 33 00-0006 EA Pile Load Test.....	3,222.73

**31 50 Excavation Support and Protection** (31)

**31 52 Cofferdams** (31 50)

**31 52 21 Portable Cofferdams** (31 52)



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Excavation Support and Protection</b>	<b>31 50</b>	
<b>Cofferdams</b>	<b>31 52</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>31 52 21 00-0001</b> <b>Portable Cofferdams</b> <small>(31 52 21)</small> Note: Excludes dewatering and pumps.		
<b>31 52 21 00-0002</b> <b>Portable Cofferdam Rental</b> <small>(31 52 21 00-0001)</small> Note: Excludes delivery and installation.		
31 52 21 00-0003    LF    3' High x 7' Width, Portable Cofferdam, Rental Per Month ..... Note: Minimum 40'	49.83	
31 52 21 00-0004    LF    4' High x 9' Width, Portable Cofferdam, Rental Per Month ..... Note: Minimum 40'	63.79	
31 52 21 00-0005    LF    5' High x 11' Width, Portable Cofferdam, Rental Per Month ..... Note: Minimum 40'	89.70	
31 52 21 00-0006    LF    6' High x 13' Width, Portable Cofferdam, Rental Per Month ..... Note: Minimum 40'	115.61	
31 52 21 00-0007    LF    8' High x 17' Width, Portable Cofferdam, Rental Per Month ..... Note: Minimum 40'	149.50	
31 52 21 00-0008    LF    10' High x 21' Width, Portable Cofferdam, Rental Per Month ..... Note: Minimum 40'	299.00	
31 52 21 00-0009    LF    12' High x 25' Width, Portable Cofferdam, Rental Per Month ..... Note: Minimum 40'	418.59	
31 52 21 00-0010    LF    16' High x 33' Width, Portable Cofferdam, Rental Per Month ..... Note: Minimum 40'	592.01	
<b>31 52 21 00-0011</b> <b>Portable Cofferdam Delivery And Set-up</b> <small>(31 52 21 00-0001)</small> Note: Excludes crane usage where required. See CSI section 01 22 23 00-0883 for crane lifting equipment.		
31 52 21 00-0012    LF    Up To 5' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water .....	10.55	
31 52 21 00-0013    LF    6' To 8' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water .....	16.87	
31 52 21 00-0014    LF    10' To 12' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water .....	25.31	
31 52 21 00-0015    LF    16' High, Portable Cofferdam, Delivery And Set-up In Dynamic (Rivers Or Streams) Water .....	33.75	
31 52 21 00-0016    LF    Up To 5' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water .....	6.32	
31 52 21 00-0017    LF    6' To 8' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water .....	10.55	
31 52 21 00-0018    LF    10' To 12' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water .....	16.87	
31 52 21 00-0019    LF    16' High, Portable Cofferdam, Delivery And Set-up In Static (Lakes Or Ponds) Water .....	23.21	
<b>31 52 21 00-0020</b> <b>Portable Cofferdam Repositioning</b> <small>(31 52 21 00-0001)</small>		
31 52 21 00-0021    LF    Up To 5' High, Portable Cofferdam, Repositioning .....	5.27	
31 52 21 00-0022    LF    6' To 8' High, Portable Cofferdam, Repositioning .....	8.44	
31 52 21 00-0023    LF    10' To 12' High, Portable Cofferdam, Repositioning .....	12.66	
31 52 21 00-0024    LF    16' High, Portable Cofferdam, Repositioning .....	16.87	

**31 60 Special Foundations and Load-bearing Elements** (31)

**31 62 Driven Piles** (31 60)

**31 62 13 Concrete Piles** (31 62)

**31 62 13 23 Prestressed Concrete Piles** (31 62 13)

**31 62 13 23-0001 Square Prestressed Driven Concrete Piles** (31 62 13 23)

31 62 13 23-0002    VLF    10" Square Prestressed Driven Concrete Pile .....	33.73	
For Piles Driven In Water, Add	16.46	
31 62 13 23-0003    VLF    12" Square Prestressed Driven Concrete Pile .....	42.29	
For Piles Driven In Water, Add	18.54	
31 62 13 23-0004    VLF    14" Square Prestressed Driven Concrete Pile .....	51.23	
For Piles Driven In Water, Add	20.39	
31 62 13 23-0005    VLF    16" Square Prestressed Driven Concrete Pile .....	62.72	
For Piles Driven In Water, Add	22.63	
31 62 13 23-0006    VLF    18" Square Prestressed Driven Concrete Pile .....	76.11	
For Piles Driven In Water, Add	25.22	
31 62 13 23-0007    VLF    20" Square Prestressed Driven Concrete Pile .....	88.01	
For Piles Driven In Water, Add	27.87	
31 62 13 23-0008    VLF    24" Square Prestressed Driven Concrete Pile .....	112.21	
For Piles Driven In Water, Add	32.03	

**31 62 13 23-0009 Octagonal Prestressed Driven Concrete Piles** (31 62 13 23)

31 62 13 23-0010    VLF    12" Octagonal Prestressed Driven Concrete Pile .....	37.87	
For Piles Driven In Water, Add	17.26	
31 62 13 23-0011    VLF    14" Octagonal Prestressed Driven Concrete Pile .....	46.43	
For Piles Driven In Water, Add	18.95	
31 62 13 23-0012    VLF    16" Octagonal Prestressed Driven Concrete Pile .....	55.13	
For Piles Driven In Water, Add	20.78	
31 62 13 23-0013    VLF    18" Octagonal Prestressed Driven Concrete Pile .....	65.88	
For Piles Driven In Water, Add	22.94	
31 62 13 23-0014    VLF    20" Octagonal Prestressed Driven Concrete Pile .....	70.13	
For Piles Driven In Water, Add	24.63	
31 62 13 23-0015    VLF    24" Octagonal Prestressed Driven Concrete Pile .....	84.62	
For Piles Driven In Water, Add	26.53	

**31 Earthwork****31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>31 62 13 23-0016</b> Straight Cylinder Prestressed Driven Concrete Piles <small>(31 62 13 23)</small>		
31 62 13 23-0017 VLF 12" Diameter, 2-3/8" Wall, Straight Cylinder Prestressed Driven Concrete Pile ..... <i>For Piles Driven In Water, Add</i>	54.26 18.14	
31 62 13 23-0018 VLF 14" Diameter, 2-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile ..... <i>For Piles Driven In Water, Add</i>	64.26 19.90	
31 62 13 23-0019 VLF 16" Diameter, 3" Wall, Straight Cylinder Prestressed Driven Concrete Pile ..... <i>For Piles Driven In Water, Add</i>	76.09 21.92	
31 62 13 23-0020 VLF 18" Diameter, 3-1/2" Wall, Straight Cylinder Prestressed Driven Concrete Pile ..... <i>For Piles Driven In Water, Add</i>	86.07 23.87	
31 62 13 23-0021 VLF 20" Diameter, 4" Wall, Straight Cylinder Prestressed Driven Concrete Pile ..... <i>For Piles Driven In Water, Add</i>	108.09 27.16	
31 62 13 23-0022 VLF 24" Diameter, 5" Wall, Straight Cylinder Prestressed Driven Concrete Pile ..... <i>For Piles Driven In Water, Add</i>	133.51 30.96	
<b>31 62 16 Steel Piles <small>(31 62)</small></b>		
<b>31 62 16 16 Steel H Piles <small>(31 62 16)</small></b>		
<b>31 62 16 16-0001</b> Rolled, Driven Steel H Piles <small>(31 62 16 16)</small>		
31 62 16 16-0002 VLF 8" x 8" x 36 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	34.68 17.78	
31 62 16 16-0003 VLF 10" x 10" x 42 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	38.60 18.88	
31 62 16 16-0004 VLF 10" x 10" x 57 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	46.43 19.66	
31 62 16 16-0005 VLF 12" x 12" x 53 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	44.84 19.96	
31 62 16 16-0006 VLF 12" x 12" x 63 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	50.06 20.48	
31 62 16 16-0007 VLF 12" x 12" x 74 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	57.22 22.47	
31 62 16 16-0008 VLF 12" x 12" x 84 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	62.43 22.99	
31 62 16 16-0009 VLF 14" x 14" x 73 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	57.17 22.89	
31 62 16 16-0010 VLF 14" x 14" x 89 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	66.03 23.78	
31 62 16 16-0011 VLF 14" x 14" x 102 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	73.89 25.99	
31 62 16 16-0012 VLF 14" x 14" x 117 LB/FT, Rolled, Driven Steel H Pile ..... <i>For Piles Driven In Water, Add</i>	82.23 26.83	
<b>31 62 16 16-0013</b> Splices, Caps, And Points For H-Piles <small>(31 62 16 16)</small>		
<b>31 62 16 16-0014</b> Rolled Steel H Pile Splices <small>(31 62 16 16-0013)</small>		
31 62 16 16-0015 EA 8" Rolled Steel H Pile Splice .....	320.45	
31 62 16 16-0016 EA 10" Rolled Steel H Pile Splice .....	357.51	
31 62 16 16-0017 EA 12" Rolled Steel H Pile Splice .....	491.52	
31 62 16 16-0018 EA 14" Rolled Steel H Pile Splice .....	510.05	
<b>31 62 16 16-0019</b> Rolled Steel H Driving Caps <small>(31 62 16 16-0013)</small>		
31 62 16 16-0020 EA 8" Rolled Steel H Driving Cap .....	3,087.72	
31 62 16 16-0021 EA 10" Rolled Steel H Driving Cap .....	3,087.72	
31 62 16 16-0022 EA 12" Rolled Steel H Driving Cap .....	3,148.33	
31 62 16 16-0023 EA 14" Rolled Steel H Driving Cap .....	4,723.24	
<b>31 62 16 16-0024</b> Rolled Steel H Standard Pile Points <small>(31 62 16 16-0013)</small>		
31 62 16 16-0025 EA 8" Rolled Steel H Standard Pile Point .....	338.98	
31 62 16 16-0026 EA 10" Rolled Steel H Standard Pile Point .....	357.51	
31 62 16 16-0027 EA 12" Rolled Steel H Standard Pile Point .....	491.52	
31 62 16 16-0028 EA 14" Rolled Steel H Standard Pile Point .....	547.10	
31 62 16 16-0029 EA 10" Rolled Steel H Standard Pile Point .....	491.52	
31 62 16 16-0030 EA 14" Rolled Steel H Standard Pile Point .....	582.99	
<b>31 62 16 19 Unfilled Tubular Steel Piles <small>(31 62 16)</small></b>		
<b>31 62 16 19-0001</b> Unfilled Tubular Driven Steel Piles <small>(31 62 16 19)</small>		
31 62 16 19-0002 VLF 8" Diameter x 29 LB/FT, Unfilled Tubular Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	58.54 24.17	
31 62 16 19-0003 VLF 8" Diameter x 36 LB/FT, Unfilled Tubular Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	68.09 25.12	
31 62 16 19-0004 VLF 8" Diameter x 43 LB/FT, Unfilled Tubular Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	78.40 26.16	
31 62 16 19-0005 VLF 10" Diameter x 34 LB/FT, Unfilled Tubular Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	68.09 25.12	
31 62 16 19-0006 VLF 10" Diameter x 41 LB/FT, Unfilled Tubular Driven Steel Pile ..... <i>For Piles Driven In Water, Add</i>	77.16 26.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 16 19-0007 VLF 10" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	97.21 28.04	
31 62 16 19-0008 VLF 12" Diameter x 42 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	80.41 27.33	
31 62 16 19-0009 VLF 12" Diameter x 50 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	91.03 28.39	
31 62 16 19-0010 VLF 12" Diameter x 54 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	96.93 28.98	
31 62 16 19-0011 VLF 12" Diameter x 65 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	113.44 30.63	
31 62 16 19-0012 VLF 14" Diameter x 46 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	86.89 29.98	
31 62 16 19-0013 VLF 14" Diameter x 55 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	98.90 31.18	
31 62 16 19-0014 VLF 14" Diameter x 64 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	110.91 32.39	
31 62 16 19-0015 VLF 14" Diameter x 72 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	122.93 33.59	
31 62 16 19-0016 VLF 16" Diameter x 52 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	96.66 33.45	
31 62 16 19-0017 VLF 16" Diameter x 63 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	110.70 34.86	
31 62 16 19-0018 VLF 16" Diameter x 83 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	138.09 37.60	
31 62 16 19-0019 VLF 18" Diameter x 59 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	119.90 37.79	
31 62 16 19-0020 VLF 18" Diameter x 71 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	138.15 39.62	
31 62 16 19-0021 VLF 18" Diameter x 93 LB/FT, Unfilled Tubular Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	172.82 43.09	
<b>31 62 16 19-0022 Splices And Points For Pipe Piles</b> <small>(31 62 16 19)</small>		
<b>31 62 16 19-0023 Steel Pipe Pile Splices</b> <small>(31 62 16 19-0022)</small>		
31 62 16 19-0024 EA 8" Diameter, Steel Pipe Pile Splice.....	488.59	
31 62 16 19-0025 EA 10" Diameter, Steel Pipe Pile Splice.....	553.47	
31 62 16 19-0026 EA 12" Diameter, Steel Pipe Pile Splice.....	692.43	
31 62 16 19-0027 EA 14" Diameter, Steel Pipe Pile Splice.....	756.42	
31 62 16 19-0028 EA 16" Diameter, Steel Pipe Pile Splice.....	954.26	
31 62 16 19-0029 EA 18" Diameter, Steel Pipe Pile Splice.....	1,191.70	
<b>31 62 16 19-0030 Steel Pipe Standard Pile Points</b> <small>(31 62 16 19-0022)</small>		
31 62 16 19-0031 EA 8" Diameter, Steel Pipe Standard Pile Point.....	430.51	
31 62 16 19-0032 EA 10" Diameter, Steel Pipe Standard Pile Point.....	482.47	
31 62 16 19-0033 EA 12" Diameter, Steel Pipe Standard Pile Point.....	558.12	
31 62 16 19-0034 EA 14" Diameter, Steel Pipe Standard Pile Point.....	701.01	
31 62 16 19-0035 EA 16" Diameter, Steel Pipe Standard Pile Point.....	830.92	
31 62 16 19-0036 EA 18" Diameter, Steel Pipe Standard Pile Point.....	948.01	
<b>31 62 16 19-0037 Steel Pipe Heavy Duty Pile Points</b> <small>(31 62 16 19-0022)</small>		
31 62 16 19-0038 EA 10" Diameter, Steel Pipe Heavy Duty Pile Point.....	600.35	
31 62 16 19-0039 EA 12" Diameter, Steel Pipe Heavy Duty Pile Point.....	665.31	
31 62 16 19-0040 EA 14" Diameter, Steel Pipe Heavy Duty Pile Point.....	763.21	
31 62 16 19-0041 EA 16" Diameter, Steel Pipe Heavy Duty Pile Point.....	1,023.02	
31 62 16 19-0042 EA 18" Diameter, Steel Pipe Heavy Duty Pile Point.....	1,212.35	
<b>31 62 19 Timber Piles</b> <small>(31 62)</small>		
<b>31 62 19 00-0001 Friction Or End Bearing, Driven Treated Wood Piles</b> <small>(31 62 19)</small>		
Note: 12 LB Penta-treated/CF.		
31 62 19 00-0002 LF Up To 30', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile..... <i>For Piles Driven In Water, Add</i> <i>For Untreated Pile, Deduct</i> <i>For Each Pile Tip Point, Add</i> <i>For Each Pile Butt, Driving Cap, Add</i> <i>For Each Splice For Pile &gt;50', Add</i>	35.63 16.28 -7.96 12.50 20.10 139.40	
31 62 19 00-0003 LF >30' To 39', 12" Butt x 8" Tip, Friction Or End Bearing, Driven Treated Wood Pile..... <i>For Piles Driven In Water, Add</i> <i>For Untreated Pile, Deduct</i> <i>For Each Pile Tip Point, Add</i> <i>For Each Pile Butt, Driving Cap, Add</i> <i>For Each Splice For Pile &gt;50', Add</i>	37.64 18.07 -8.04 12.50 20.10 139.40	
31 62 19 00-0004 LF 39' To 49', 12" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile..... <i>For Piles Driven In Water, Add</i> <i>For Untreated Pile, Deduct</i> <i>For Each Pile Tip Point, Add</i> <i>For Each Pile Butt, Driving Cap, Add</i> <i>For Each Splice For Pile &gt;50', Add</i>	39.69 19.23 -8.41 12.50 20.10 139.40	

**31 Earthwork****31 60 Special Foundations and Load-bearing Elements****31 62 Driven Piles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 62 19 00-0005	LF	>49' To 59', 13" Butt x 7" Tip, Friction Or End Bearing, Driven Treated Wood Pile		42.82	
		<i>For Piles Driven In Water, Add</i>		21.45	
		<i>For Untreated Pile, Deduct</i>		-8.78	
		<i>For Each Pile Tip Point, Add</i>		12.50	
		<i>For Each Pile Butt, Driving Cap, Add</i>		20.10	
		<i>For Each Splice For Pile &gt;50', Add</i>		139.40	
31 62 19 00-0006	LF	>59' To 69', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile		52.97	
		<i>For Piles Driven In Water, Add</i>		24.37	
		<i>For Untreated Pile, Deduct</i>		-11.76	
		<i>For Each Pile Tip Point, Add</i>		12.50	
		<i>For Each Pile Butt, Driving Cap, Add</i>		20.10	
		<i>For Each Splice For Pile &gt;50', Add</i>		139.40	
31 62 19 00-0007	LF	>69' To 79', 13" Butt x 6" Tip, Friction Or End Bearing, Driven Treated Wood Pile		66.08	
		<i>For Piles Driven In Water, Add</i>		29.50	
		<i>For Untreated Pile, Deduct</i>		-15.04	
		<i>For Each Pile Tip Point, Add</i>		12.50	
		<i>For Each Pile Butt, Driving Cap, Add</i>		20.10	
		<i>For Each Splice For Pile &gt;50', Add</i>		139.40	

**31 62 23 Composite Piles (31 62)****31 62 23 13 Concrete-Filled Steel Piles (31 62 23)****31 62 23 13-0001 Concrete-Filled Driven Steel Pipe Piles (31 62 23 13)**

Note: Includes 4,000 PSI concrete grout. Excludes reinforcing.

31 62 23 13-0002	VLF	8" Diameter x 29 LB/FT, Concrete-Filled Driven Steel Pipe Pile	63.23	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	8.05	
		<i>For Piles Driven In Water, Add</i>	26.23	
31 62 23 13-0003	VLF	8" Diameter x 36 LB/FT, Concrete-Filled Driven Steel Pipe Pile	72.78	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	9.01	
		<i>For Piles Driven In Water, Add</i>	27.19	
31 62 23 13-0004	VLF	8" Diameter x 43 LB/FT, Concrete-Filled Driven Steel Pipe Pile	83.09	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	10.04	
		<i>For Piles Driven In Water, Add</i>	28.22	
31 62 23 13-0005	VLF	10" Diameter x 34 LB/FT, Concrete-Filled Driven Steel Pipe Pile	75.00	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	11.38	
		<i>For Piles Driven In Water, Add</i>	27.85	
31 62 23 13-0006	VLF	10" Diameter x 41 LB/FT, Concrete-Filled Driven Steel Pipe Pile	84.07	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	12.29	
		<i>For Piles Driven In Water, Add</i>	28.76	
31 62 23 13-0007	VLF	10" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile	104.12	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	14.29	
		<i>For Piles Driven In Water, Add</i>	30.76	
31 62 23 13-0008	VLF	12" Diameter x 42 LB/FT, Concrete-Filled Driven Steel Pipe Pile	90.15	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	15.41	
		<i>For Piles Driven In Water, Add</i>	31.08	
31 62 23 13-0009	VLF	12" Diameter x 50 LB/FT, Concrete-Filled Driven Steel Pipe Pile	100.77	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	16.48	
		<i>For Piles Driven In Water, Add</i>	32.15	
31 62 23 13-0010	VLF	12" Diameter x 54 LB/FT, Concrete-Filled Driven Steel Pipe Pile	106.66	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	17.06	
		<i>For Piles Driven In Water, Add</i>	32.73	
31 62 23 13-0011	VLF	12" Diameter x 65 LB/FT, Concrete-Filled Driven Steel Pipe Pile	123.18	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	18.72	
		<i>For Piles Driven In Water, Add</i>	34.39	
31 62 23 13-0012	VLF	14" Diameter x 46 LB/FT, Concrete-Filled Driven Steel Pipe Pile	99.82	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	19.15	
		<i>For Piles Driven In Water, Add</i>	35.79	
31 62 23 13-0013	VLF	14" Diameter x 55 LB/FT, Concrete-Filled Driven Steel Pipe Pile	111.83	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	20.35	
		<i>For Piles Driven In Water, Add</i>	36.99	
31 62 23 13-0014	VLF	14" Diameter x 64 LB/FT, Concrete-Filled Driven Steel Pipe Pile	123.85	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	21.55	
		<i>For Piles Driven In Water, Add</i>	38.19	
31 62 23 13-0015	VLF	14" Diameter x 72 LB/FT, Concrete-Filled Driven Steel Pipe Pile	135.86	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	22.75	
		<i>For Piles Driven In Water, Add</i>	39.39	
31 62 23 13-0016	VLF	16" Diameter x 52 LB/FT, Concrete-Filled Driven Steel Pipe Pile	111.08	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	23.79	
		<i>For Piles Driven In Water, Add</i>	38.45	
31 62 23 13-0017	VLF	16" Diameter x 63 LB/FT, Concrete-Filled Driven Steel Pipe Pile	125.12	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	25.19	
		<i>For Piles Driven In Water, Add</i>	39.85	
31 62 23 13-0018	VLF	16" Diameter x 83 LB/FT, Concrete-Filled Driven Steel Pipe Pile	152.51	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	27.93	
		<i>For Piles Driven In Water, Add</i>	42.59	
31 62 23 13-0019	VLF	18" Diameter x 59 LB/FT, Concrete-Filled Driven Steel Pipe Pile	137.42	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	30.39	
		<i>For Piles Driven In Water, Add</i>	43.28	
31 62 23 13-0020	VLF	18" Diameter x 71 LB/FT, Concrete-Filled Driven Steel Pipe Pile	155.67	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	32.22	
		<i>For Piles Driven In Water, Add</i>	45.11	
31 62 23 13-0021	VLF	18" Diameter x 93 LB/FT, Concrete-Filled Driven Steel Pipe Pile	190.34	
		<i>For 5,000 PSI Concrete Grout Fill, Add</i>	35.68	
		<i>For Piles Driven In Water, Add</i>	48.57	



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Special Foundations and Load-bearing Elements</b>	<b>31 60</b>	
<b>Driven Piles</b>	<b>31 62</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>31 62 23 13-0022</b>	<b>7 Gauge, Constant Diameter Concrete-Filled Driven Steel Piles</b> <small>(31 62 23 13)</small> Note: End bearing, with fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.	
31 62 23 13-0023	VLF 12" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	82.71 23.54
31 62 23 13-0024	VLF 14" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	100.74 26.43
31 62 23 13-0025	VLF 16" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	114.19 29.03
31 62 23 13-0026	VLF 18" Diameter, 7 Gauge, Constant Diameter Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	124.22 31.49

<b>31 62 23 13-0027</b>	<b>Tapered Friction Concrete-Filled Driven Steel Piles</b> <small>(31 62 23 13)</small> Note: With fluted steel casing, up to 50'. Includes 4,000 PSI concrete. Excludes reinforcing.	
31 62 23 13-0028	VLF 12" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	81.09 23.37
31 62 23 13-0029	VLF 14" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	83.11 24.66
31 62 23 13-0030	VLF 16" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	101.83 27.80
31 62 23 13-0031	VLF 18" Diameter, 7 Gauge, Tapered Friction Concrete-Filled Driven Steel Pile..... <i>For Piles Driven In Water, Add</i>	117.69 30.84

<b>31 62 23 13-0032</b>	<b>Thin Wall Shell Straight Sided Driven Steel Piles</b> <small>(31 62 23 13)</small>	
31 62 23 13-0033	VLF 8" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	48.10 17.69 0.08
31 62 23 13-0034	VLF 10" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	53.08 19.62 0.09
31 62 23 13-0035	VLF 12" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	58.01 21.54 0.10
31 62 23 13-0036	VLF 14" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	63.00 23.47 0.11
31 62 23 13-0037	VLF 16" Diameter, 16 Gauge, Thin Wall Shell Straight Sided Driven Steel Pile..... <i>For Piles Driven In Water, Add</i> <i>For Thick Wall Shell, Add</i>	67.98 25.40 0.12

**31 63 Bored Piles** (31 60)

**31 63 36 Drilled Steel Piles** (31 63)

<b>31 63 36 00-0001</b>	<b>Drill Hole</b> <small>(31 63 36)</small> Note: Excludes removal of excess material.	
<b>31 63 36 00-0002</b>	<b>Drilling Mobilization</b> <small>(31 63 36 00-0001)</small>	
31 63 36 00-0003	EA >12" To 24" Diameter Hole, Drilling Mobilization .....	966.82
31 63 36 00-0004	EA >24" Diameter Hole, Drilling Mobilization.....	1,289.09

<b>31 63 36 00-0005</b>	<b>Drill Hole In Soil</b> <small>(31 63 36 00-0001)</small>	
31 63 36 00-0006	LF 18" Diameter, Up To 24' Depth, Drilled/Augered Hole .....	53.35
31 63 36 00-0007	LF 20" Diameter, Up To 24' Depth, Drilled/Augered Hole .....	62.04
31 63 36 00-0008	LF 22" Diameter, Up To 24' Depth, Drilled/Augered Hole .....	72.89
31 63 36 00-0009	LF 24" Diameter, Up To 24' Depth, Drilled/Augered Hole .....	85.92
31 63 36 00-0010	LF 26" Diameter, Up To 24' Depth, Drilled/Augered Hole .....	92.86
31 63 36 00-0011	LF 28" Diameter, Up To 24' Depth, Drilled/Augered Hole .....	102.18
31 63 36 00-0012	LF 30" Diameter, Up To 24' Depth, Drilled/Augered Hole .....	111.91

**31 63 36 00-0013 Steel H Piles** (31 63 36)

**31 63 36 00-0014 Placed In Drilled Hole, Rolled Steel H-Section Piles** (31 63 36 00-0013)

<b>31 63 36 00-0015</b>	<b>VLF 8" x 8" x 36 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile</b> ..... <i>For &gt;2,400 To 3,600, Deduct</i> <i>For &gt;3,600 To 4,800, Deduct</i> <i>For &gt;4,800 To 6,000, Deduct</i> <i>For &gt;6,000, Deduct</i>	32.01 -1.13 -2.26 -3.86 -5.46
<b>31 63 36 00-0016</b>	<b>VLF 10" x 10" x 42 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile</b> ..... <i>For &gt;2,400 To 3,600, Deduct</i> <i>For &gt;3,600 To 4,800, Deduct</i> <i>For &gt;4,800 To 6,000, Deduct</i> <i>For &gt;6,000, Deduct</i>	35.81 -1.24 -2.49 -4.28 -6.07

**31 Earthwork****31 60 Special Foundations and Load-bearing Elements****31 63 Bored Piles**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0017	VLF		10" x 10" x 57 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	43.64	
			<i>For &gt;2,400 To 3,600, Deduct</i>	-1.44	
			<i>For &gt;3,600 To 4,800, Deduct</i>	-2.88	
			<i>For &gt;4,800 To 6,000, Deduct</i>	-5.06	
			<i>For &gt;6,000, Deduct</i>	-7.24	
31 63 36 00-0018	VLF		12" x 12" x 53 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	41.96	
			<i>For &gt;2,400 To 3,600, Deduct</i>	-1.41	
			<i>For &gt;3,600 To 4,800, Deduct</i>	-2.81	
			<i>For &gt;4,800 To 6,000, Deduct</i>	-4.91	
			<i>For &gt;6,000, Deduct</i>	-7.01	
31 63 36 00-0019	VLF		12" x 12" x 63 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	47.18	
			<i>For &gt;2,400 To 3,600, Deduct</i>	-1.54	
			<i>For &gt;3,600 To 4,800, Deduct</i>	-3.07	
			<i>For &gt;4,800 To 6,000, Deduct</i>	-5.43	
			<i>For &gt;6,000, Deduct</i>	-7.79	
31 63 36 00-0020	VLF		12" x 12" x 74 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	54.11	
			<i>For &gt;2,400 To 3,600, Deduct</i>	-1.74	
			<i>For &gt;3,600 To 4,800, Deduct</i>	-3.48	
			<i>For &gt;4,800 To 6,000, Deduct</i>	-6.19	
			<i>For &gt;6,000, Deduct</i>	-8.89	
31 63 36 00-0021	VLF		12" x 12" x 84 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	59.32	
			<i>For &gt;2,400 To 3,600, Deduct</i>	-1.87	
			<i>For &gt;3,600 To 4,800, Deduct</i>	-3.74	
			<i>For &gt;4,800 To 6,000, Deduct</i>	-6.71	
			<i>For &gt;6,000, Deduct</i>	-9.67	
31 63 36 00-0022	VLF		14" x 14" x 73 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	53.97	
			<i>For &gt;2,400 To 3,600, Deduct</i>	-1.75	
			<i>For &gt;3,600 To 4,800, Deduct</i>	-3.49	
			<i>For &gt;4,800 To 6,000, Deduct</i>	-6.19	
			<i>For &gt;6,000, Deduct</i>	-8.89	
31 63 36 00-0023	VLF		14" x 14" x 89 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	62.83	
			<i>For &gt;2,400 To 3,600, Deduct</i>	-1.97	
			<i>For &gt;3,600 To 4,800, Deduct</i>	-3.94	
			<i>For &gt;4,800 To 6,000, Deduct</i>	-7.08	
			<i>For &gt;6,000, Deduct</i>	-10.22	
31 63 36 00-0024	VLF		14" x 14" x 102 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	70.43	
			<i>For &gt;2,400 To 3,600, Deduct</i>	-2.19	
			<i>For &gt;3,600 To 4,800, Deduct</i>	-4.38	
			<i>For &gt;4,800 To 6,000, Deduct</i>	-7.90	
			<i>For &gt;6,000, Deduct</i>	-11.43	
31 63 36 00-0025	VLF		14" x 14" x 117 LB/FT, Placed In Drilled Hole, Rolled Steel H Pile .....	78.77	
			<i>For &gt;2,400 To 3,600, Deduct</i>	-2.40	
			<i>For &gt;3,600 To 4,800, Deduct</i>	-4.80	
			<i>For &gt;4,800 To 6,000, Deduct</i>	-8.74	
			<i>For &gt;6,000, Deduct</i>	-12.68	
31 63 36 00-0026			<b>Welded Steel Stud Pins</b> <small>(31 63 36 00-0013)</small>		
			Note: Includes welding to steel piles.		
31 63 36 00-0027	EA		5/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins .....	14.34	
			<i>For &gt;50 To 150, Deduct</i>	-0.63	
			<i>For &gt;150 To 250, Deduct</i>	-1.30	
			<i>For &gt;250 To 500, Deduct</i>	-1.97	
			<i>For &gt;500, Deduct</i>	-2.65	
31 63 36 00-0028	EA		5/8" Diameter x 5" Long, Welded Steel Stud Pins .....	16.16	
			<i>For &gt;50 To 150, Deduct</i>	-0.63	
			<i>For &gt;150 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.78	
31 63 36 00-0029	EA		5/8" Diameter x 7" Long, Welded Steel Stud Pins .....	17.91	
			<i>For &gt;50 To 150, Deduct</i>	-0.63	
			<i>For &gt;150 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-2.15	
			<i>For &gt;500, Deduct</i>	-2.91	
31 63 36 00-0030	EA		3/4" Diameter x 2-1/2" Long, Welded Steel Stud Pins .....	16.04	
			<i>For &gt;50 To 150, Deduct</i>	-0.66	
			<i>For &gt;150 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-2.12	
			<i>For &gt;500, Deduct</i>	-2.85	
31 63 36 00-0031	EA		3/4" Diameter x 5" Long, Welded Steel Stud Pins .....	18.80	
			<i>For &gt;50 To 150, Deduct</i>	-0.66	
			<i>For &gt;150 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-2.26	
			<i>For &gt;500, Deduct</i>	-3.06	
31 63 36 00-0032	EA		3/4" Diameter x 7" Long, Welded Steel Stud Pins .....	20.73	
			<i>For &gt;50 To 150, Deduct</i>	-0.66	
			<i>For &gt;150 To 250, Deduct</i>	-1.51	
			<i>For &gt;250 To 500, Deduct</i>	-2.35	
			<i>For &gt;500, Deduct</i>	-3.20	
31 63 36 00-0033	EA		7/8" Diameter x 2-1/2" Long, Welded Steel Stud Pins .....	18.23	
			<i>For &gt;50 To 150, Deduct</i>	-0.69	
			<i>For &gt;150 To 250, Deduct</i>	-1.49	
			<i>For &gt;250 To 500, Deduct</i>	-2.29	
			<i>For &gt;500, Deduct</i>	-3.08	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 63 36 00-0034 EA 7/8" Diameter x 5" Long, Welded Steel Stud Pins .....	22.71	
<i>For &gt;50 To 150, Deduct</i>	-0.69	
<i>For &gt;150 To 250, Deduct</i>	-1.60	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.42	
31 63 36 00-0035 EA 7/8" Diameter x 7" Long, Welded Steel Stud Pins .....	24.91	
<i>For &gt;50 To 150, Deduct</i>	-0.69	
<i>For &gt;150 To 250, Deduct</i>	-1.65	
<i>For &gt;250 To 500, Deduct</i>	-2.62	
<i>For &gt;500, Deduct</i>	-3.59	
<b>31 63 36 00-0036 Concrete Fill</b> <small>(31 63 36)</small>		
See CSI section 03 37 16 00-0001 for pumping equipment.		
31 63 36 00-0037 VLF 18" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	55.26	
31 63 36 00-0038 VLF 20" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	61.39	
31 63 36 00-0039 VLF 22" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	67.53	
31 63 36 00-0040 VLF 24" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	73.68	
31 63 36 00-0041 VLF 26" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	79.81	
31 63 36 00-0042 VLF 28" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	85.95	
31 63 36 00-0043 VLF 30" Diameter Hole Pumped Concrete Fill For Drilled Pile.....	98.90	
<b>31 64 Caissons</b> <small>(31 64)</small>		
<b>31 64 13 Box Caissons</b> <small>(31 64)</small>		
31 64 13 00-0001 Caisson In Stable Ground No Casing Or Ground Water <small>(31 64 13)</small>		
Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0002 Caisson In Stable Ground <small>(31 64 13 00-0001)</small>		
Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0003 VLF 18" Diameter Caisson, No Casing Stable Ground, No Ground Water .....	61.54	
Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	6.18	
<i>For &gt;100' To 150' Deep, Add</i>	15.39	
<i>For &gt;150' To 200' Deep, Add</i>	20.80	
<i>For Right Angle Drilling, Add</i>	15.69	
31 64 13 00-0004 VLF 24" Diameter Caisson, No Casing Stable Ground, No Ground Water .....	79.21	
Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	8.71	
<i>For &gt;100' To 150' Deep, Add</i>	19.80	
<i>For &gt;150' To 200' Deep, Add</i>	27.72	
<i>For Right Angle Drilling, Add</i>	17.84	
31 64 13 00-0005 VLF 30" Diameter Caisson, No Casing Stable Ground, No Ground Water .....	112.95	
Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	12.93	
<i>For &gt;100' To 150' Deep, Add</i>	28.24	
<i>For &gt;150' To 200' Deep, Add</i>	40.16	
<i>For Right Angle Drilling, Add</i>	23.84	
31 64 13 00-0006 VLF 36" Diameter Caisson, No Casing Stable Ground, No Ground Water .....	150.55	
Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	17.76	
<i>For &gt;100' To 150' Deep, Add</i>	37.64	
<i>For &gt;150' To 200' Deep, Add</i>	54.20	
<i>For Right Angle Drilling, Add</i>	30.12	
31 64 13 00-0007 VLF 42" Diameter Caisson, No Casing Stable Ground, No Ground Water .....	193.83	
Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	23.62	
<i>For &gt;100' To 150' Deep, Add</i>	48.46	
<i>For &gt;150' To 200' Deep, Add</i>	70.72	
<i>For Right Angle Drilling, Add</i>	36.42	
31 64 13 00-0008 VLF 48" Diameter Caisson No Casing Stable Ground, No Ground Water .....	235.38	
Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	29.20	
<i>For &gt;100' To 150' Deep, Add</i>	58.85	
<i>For &gt;150' To 200' Deep, Add</i>	86.52	
<i>For Right Angle Drilling, Add</i>	42.62	
31 64 13 00-0009 VLF 54" Diameter Caisson No Casing Stable Ground, No Ground Water .....	285.31	
Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	36.35	
<i>For &gt;100' To 150' Deep, Add</i>	71.33	
<i>For &gt;150' To 200' Deep, Add</i>	106.07	
<i>For Right Angle Drilling, Add</i>	48.67	
31 64 13 00-0010 VLF 60" Diameter Caisson No Casing Stable Ground, No Ground Water .....	336.99	
Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	43.76	
<i>For &gt;100' To 150' Deep, Add</i>	84.25	
<i>For &gt;150' To 200' Deep, Add</i>	126.32	
<i>For Right Angle Drilling, Add</i>	54.90	
31 64 13 00-0011 VLF 66" Diameter Caisson No Casing Stable Ground, No Ground Water .....	395.23	
Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.		
<i>For &gt;50' To 100' Deep, Add</i>	52.08	
<i>For &gt;100' To 150' Deep, Add</i>	98.81	
<i>For &gt;150' To 200' Deep, Add</i>	149.08	
<i>For Right Angle Drilling, Add</i>	62.05	

**31 Earthwork****31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64	13 00-0012	VLF	72" Diameter Caisson No Casing Stable Ground, No Ground Water .....461.51 Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.		
			<i>For &gt;50' To 100' Deep, Add</i>	61.59	
			<i>For &gt;100' To 150' Deep, Add</i>	115.38	
			<i>For &gt;150' To 200' Deep, Add</i>	175.06	
			<i>For Right Angle Drilling, Add</i>	70.00	
31 64	13 00-0013	VLF	78" Diameter Caisson No Casing Stable Ground, No Ground Water .....528.49 Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.		
			<i>For &gt;50' To 100' Deep, Add</i>	71.37	
			<i>For &gt;100' To 150' Deep, Add</i>	132.12	
			<i>For &gt;150' To 200' Deep, Add</i>	201.51	
			<i>For Right Angle Drilling, Add</i>	77.55	
31 64	13 00-0014	VLF	84" Diameter Caisson No Casing Stable Ground, No Ground Water .....600.10 Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.		
			<i>For &gt;50' To 100' Deep, Add</i>	81.87	
			<i>For &gt;100' To 150' Deep, Add</i>	150.03	
			<i>For &gt;150' To 200' Deep, Add</i>	229.86	
			<i>For Right Angle Drilling, Add</i>	85.46	
31 64	13 00-0015		<b>For Bell Excavation And Concrete, Add</b> <small>(31 64 13 00-0001)</small>		
31 64	13 00-0016	EA	Bell Excavation And Concrete, 4' Bell Diameter Stable Ground, 24" Shaft, 0.44 CY .....466.69		
			<i>For &gt;50' To 100' Deep, Add</i>	39.47	
			<i>For &gt;100' To 150' Deep, Add</i>	116.67	
			<i>For &gt;150' To 200' Deep, Add</i>	148.51	
31 64	13 00-0017	EA	Bell Excavation And Concrete, 6' Bell Diameter Stable Ground, 30" Shaft, 1.57 CY .....1,641.49		
			<i>For &gt;50' To 100' Deep, Add</i>	139.09	
			<i>For &gt;100' To 150' Deep, Add</i>	410.37	
			<i>For &gt;150' To 200' Deep, Add</i>	522.68	
31 64	13 00-0018	EA	Bell Excavation And Concrete, 7' Bell Diameter Stable Ground, 36" Shaft, 2.33 CY .....2,495.99		
			<i>For &gt;50' To 100' Deep, Add</i>	215.41	
			<i>For &gt;100' To 150' Deep, Add</i>	624.00	
			<i>For &gt;150' To 200' Deep, Add</i>	799.67	
31 64	13 00-0019	EA	Bell Excavation And Concrete, 8' Bell Diameter Stable Ground, 42" Shaft, 3.30 CY .....3,466.96		
			<i>For &gt;50' To 100' Deep, Add</i>	299.89	
			<i>For &gt;100' To 150' Deep, Add</i>	866.74	
			<i>For &gt;150' To 200' Deep, Add</i>	1,111.59	
31 64	13 00-0020	EA	Bell Excavation And Concrete, 9' Bell Diameter Stable Ground, 48" Shaft, 4.48 CY .....4,676.39		
			<i>For &gt;50' To 100' Deep, Add</i>	396.14	
			<i>For &gt;100' To 150' Deep, Add</i>	1,169.10	
			<i>For &gt;150' To 200' Deep, Add</i>	1,488.90	
31 64	13 00-0021	EA	Bell Excavation And Concrete, 10' Bell Diameter Stable Ground, 60" Shaft, 5.24 CY .....5,497.92		
			<i>For &gt;50' To 100' Deep, Add</i>	465.49	
			<i>For &gt;100' To 150' Deep, Add</i>	1,374.48	
			<i>For &gt;150' To 200' Deep, Add</i>	1,750.17	
31 64	13 00-0022	EA	Bell Excavation And Concrete, 12' Bell Diameter Stable Ground, 72" Shaft, 8.74 CY .....9,318.12		
			<i>For &gt;50' To 100' Deep, Add</i>	787.08	
			<i>For &gt;100' To 150' Deep, Add</i>	2,329.53	
			<i>For &gt;150' To 200' Deep, Add</i>	2,963.95	
31 64	13 00-0023	EA	Bell Excavation And Concrete, 14' Bell Diameter Stable Ground, 84" Shaft, 13.6 CY .....13,518.58		
			<i>For &gt;50' To 100' Deep, Add</i>	1,155.44	
			<i>For &gt;100' To 150' Deep, Add</i>	3,379.65	
			<i>For &gt;150' To 200' Deep, Add</i>	4,317.00	
31 64	13 00-0024		<b>Caisson In Wet Ground, Casing Pulled</b> <small>(31 64 13)</small>		
			Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64	13 00-0025		<b>Caisson In Wet Ground</b> <small>(31 64 13 00-0024)</small>		
			Note: Includes 3000 PSI concrete and reinforcing.		
31 64	13 00-0026	VLF	18" Diameter Caisson Wet Ground, Casing Pulled .....67.70 Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.		
			<i>For &gt;50' To 100' Deep, Add</i>	6.60	
			<i>For &gt;100' To 150' Deep, Add</i>	16.93	
			<i>For &gt;150' To 200' Deep, Add</i>	22.63	
			<i>For Right Angle Drilling, Add</i>	17.89	
31 64	13 00-0027	VLF	24" Diameter Caisson Wet Ground, Casing Pulled .....113.66 Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.		
			<i>For &gt;50' To 100' Deep, Add</i>	11.12	
			<i>For &gt;100' To 150' Deep, Add</i>	28.42	
			<i>For &gt;150' To 200' Deep, Add</i>	38.05	
			<i>For Right Angle Drilling, Add</i>	29.89	
31 64	13 00-0028	VLF	30" Diameter Caisson Wet Ground, Casing Pulled .....151.72 Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.		
			<i>For &gt;50' To 100' Deep, Add</i>	15.64	
			<i>For &gt;100' To 150' Deep, Add</i>	37.93	
			<i>For &gt;150' To 200' Deep, Add</i>	51.80	
			<i>For Right Angle Drilling, Add</i>	37.40	
31 64	13 00-0029	VLF	36" Diameter Caisson Wet Ground, Casing Pulled .....208.88 Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.		
			<i>For &gt;50' To 100' Deep, Add</i>	21.85	
			<i>For &gt;100' To 150' Deep, Add</i>	52.22	
			<i>For &gt;150' To 200' Deep, Add</i>	71.70	
			<i>For Right Angle Drilling, Add</i>	50.53	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64	13 00-0030	VL	F	42" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i> <i>For Right Angle Drilling, Add</i>	265.80 28.66 66.45 92.31 61.61	
31 64	13 00-0031	VL	F	48" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i> <i>For Right Angle Drilling, Add</i>	320.73 35.18 80.18 112.12 72.49	
31 64	13 00-0032	VL	F	54" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i> <i>For Right Angle Drilling, Add</i>	413.18 45.30 103.30 144.43 93.42	
31 64	13 00-0033	VL	F	60" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i> <i>For Right Angle Drilling, Add</i>	506.26 55.61 126.57 177.10 114.15	
31 64	13 00-0034	VL	F	66" Diameter Caisson Wet Ground, Casing Pulled..... Note: 0.87 CY Concrete per VLF, 113 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i> <i>For Right Angle Drilling, Add</i>	580.39 65.04 145.10 204.63 126.85	
31 64	13 00-0035	VL	F	72" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i> <i>For Right Angle Drilling, Add</i>	662.52 75.66 165.63 235.37 140.36	
31 64	13 00-0036	VL	F	78" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i> <i>For Right Angle Drilling, Add</i>	755.74 87.28 188.94 269.69 157.09	
31 64	13 00-0037	VL	F	84" Diameter Caisson Wet Ground, Casing Pulled..... Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF. <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i> <i>For Right Angle Drilling, Add</i>	854.03 99.65 213.51 306.04 174.33	
31 64	13 00-0038			<b>For Bell Excavation And Concrete, Add</b> <small>(31 64 13 00-0024)</small>		
31 64	13 00-0039	EA	F	Bell Excavation And Concrete, 4' Bell Diameter Wet Ground 24" Shaft, 0.44 CY..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	534.16 44.19 133.54 168.75	
31 64	13 00-0040	EA	F	Bell Excavation And Concrete, 6' Bell Diameter Wet Ground, 30" Shaft, 1.57 CY..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	1,862.48 154.56 465.62 588.98	
31 64	13 00-0041	EA	F	Bell Excavation And Concrete, 7' Bell Diameter Wet Ground, 36" Shaft, 2.33 CY..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	2,503.26 190.73 625.82 770.35	
31 64	13 00-0042	EA	F	Bell Excavation And Concrete, 8' Bell Diameter Wet Ground, 42" Shaft, 3.3 CY..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	4,104.69 344.53 1,026.17 1,302.91	
31 64	13 00-0043	EA	F	Bell Excavation And Concrete, 9' Bell Diameter Wet Ground, 48" Shaft, 4.48 CY..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	5,306.20 440.22 1,326.55 1,677.85	
31 64	13 00-0044	EA	F	Bell Excavation And Concrete, 10' Bell Diameter Wet Ground, 60" Shaft, 5.24 CY..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	6,238.88 517.35 1,559.72 1,972.45	
31 64	13 00-0045	EA	F	Bell Excavation And Concrete, 12' Bell Diameter Wet Ground, 72" Shaft, 8.74 CY..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	10,577.75 875.25 2,644.44 3,341.83	
31 64	13 00-0046	EA	F	Bell Excavation And Concrete, 14' Bell Diameter Wet Ground, 84" Shaft, 13.6 CY..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	15,318.06 1,281.40 3,829.52 4,856.84	

**31 Earthwork****31 60 Special Foundations and Load-bearing Elements****31 64 Caissons**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0047		<b>Caisson In Soft Rock And Medium Hard Shale</b> <sup>(31 64 13)</sup> Note: Up to 50' deep. See CSI section 31 64 13 00-0070 for equipment set-up.		
31 64 13 00-0048		<b>Caisson In Soft Rock</b> <sup>(31 64 13 00-0047)</sup> Note: Includes 3000 PSI concrete and reinforcing.		
31 64 13 00-0049	VLF	18" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.066 CY Concrete per VLF, 9 lbs rebar per VLF.	251.14	
		<i>For &gt;50' To 100' Deep, Add</i>	19.44	
		<i>For &gt;100' To 150' Deep, Add</i>	62.79	
		<i>For &gt;150' To 200' Deep, Add</i>	77.67	
		<i>For Right Angle Drilling, Add</i>	82.09	
31 64 13 00-0050	VLF	24" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.116 CY Concrete per VLF, 14 lbs rebar per VLF.	419.43	
		<i>For &gt;50' To 100' Deep, Add</i>	32.52	
		<i>For &gt;100' To 150' Deep, Add</i>	104.86	
		<i>For &gt;150' To 200' Deep, Add</i>	129.78	
		<i>For Right Angle Drilling, Add</i>	136.91	
31 64 13 00-0051	VLF	30" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.182 CY Concrete per VLF, 23 lbs rebar per VLF.	632.54	
		<i>For &gt;50' To 100' Deep, Add</i>	49.30	
		<i>For &gt;100' To 150' Deep, Add</i>	158.14	
		<i>For &gt;150' To 200' Deep, Add</i>	196.04	
		<i>For Right Angle Drilling, Add</i>	205.69	
31 64 13 00-0052	VLF	36" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.262 CY Concrete per VLF, 33 lbs rebar per VLF.	810.00	
		<i>For &gt;50' To 100' Deep, Add</i>	63.92	
		<i>For &gt;100' To 150' Deep, Add</i>	202.50	
		<i>For &gt;150' To 200' Deep, Add</i>	252.03	
		<i>For Right Angle Drilling, Add</i>	260.92	
31 64 13 00-0053	VLF	42" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.356 CY Concrete per VLF, 48 lbs rebar per VLF.	1,042.74	
		<i>For &gt;50' To 100' Deep, Add</i>	83.05	
		<i>For &gt;100' To 150' Deep, Add</i>	260.69	
		<i>For &gt;150' To 200' Deep, Add</i>	325.39	
		<i>For Right Angle Drilling, Add</i>	333.54	
31 64 13 00-0054	VLF	48" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.465 CY Concrete per VLF, 57 lbs rebar per VLF.	1,259.52	
		<i>For &gt;50' To 100' Deep, Add</i>	100.89	
		<i>For &gt;100' To 150' Deep, Add</i>	314.88	
		<i>For &gt;150' To 200' Deep, Add</i>	393.76	
		<i>For Right Angle Drilling, Add</i>	401.07	
31 64 13 00-0055	VLF	54" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.589 CY Concrete per VLF, 76 lbs rebar per VLF.	1,541.44	
		<i>For &gt;50' To 100' Deep, Add</i>	124.28	
		<i>For &gt;100' To 150' Deep, Add</i>	385.36	
		<i>For &gt;150' To 200' Deep, Add</i>	482.91	
		<i>For Right Angle Drilling, Add</i>	488.31	
31 64 13 00-0056	VLF	60" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.727 CY Concrete per VLF, 93 lbs rebar per VLF.	1,824.23	
		<i>For &gt;50' To 100' Deep, Add</i>	147.87	
		<i>For &gt;100' To 150' Deep, Add</i>	456.06	
		<i>For &gt;150' To 200' Deep, Add</i>	572.49	
		<i>For Right Angle Drilling, Add</i>	575.44	
31 64 13 00-0057	VLF	66" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 0.88 CY Concrete per VLF, 113 lbs rebar per VLF.	2,008.66	
		<i>For &gt;50' To 100' Deep, Add</i>	165.02	
		<i>For &gt;100' To 150' Deep, Add</i>	502.17	
		<i>For &gt;150' To 200' Deep, Add</i>	633.11	
		<i>For Right Angle Drilling, Add</i>	626.74	
31 64 13 00-0058	VLF	72" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.047 CY Concrete per VLF, 134 lbs rebar per VLF.	2,200.22	
		<i>For &gt;50' To 100' Deep, Add</i>	183.30	
		<i>For &gt;100' To 150' Deep, Add</i>	550.06	
		<i>For &gt;150' To 200' Deep, Add</i>	696.68	
		<i>For Right Angle Drilling, Add</i>	678.55	
31 64 13 00-0059	VLF	78" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.229 CY Concrete per VLF, 157 lbs rebar per VLF.	2,263.79	
		<i>For &gt;50' To 100' Deep, Add</i>	192.84	
		<i>For &gt;100' To 150' Deep, Add</i>	565.95	
		<i>For &gt;150' To 200' Deep, Add</i>	722.10	
		<i>For Right Angle Drilling, Add</i>	684.91	
31 64 13 00-0060	VLF	84" Diameter Caisson, Soft Rock Medium Shale, No Casing/Ground Water..... Note: 1.425 CY Concrete per VLF, 183 lbs rebar per VLF.	2,700.64	
		<i>For &gt;50' To 100' Deep, Add</i>	228.91	
		<i>For &gt;100' To 150' Deep, Add</i>	675.16	
		<i>For &gt;150' To 200' Deep, Add</i>	860.02	
		<i>For Right Angle Drilling, Add</i>	820.64	
31 64 13 00-0061		<b>For Bell Excavation And Concrete, Add</b> <sup>(31 64 13 00-0047)</sup>		
31 64 13 00-0062	EA	Bell Excavation And Concrete, 4' Bell Diameter Soft Rock/Shale 24" Shaft 0.44 CY .....	900.88	
		<i>For &gt;50' To 100' Deep, Add</i>	69.86	
		<i>For &gt;100' To 150' Deep, Add</i>	225.22	
		<i>For &gt;150' To 200' Deep, Add</i>	278.77	



<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Special Foundations and Load-bearing Elements</b>	<b>31 60</b>	
<b>Caissons</b>	<b>31 64</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 64 13 00-0063 EA Bell Excavation And Concrete, 6' Bell Diameter Soft Rock/Shale 30" Shaft 1.57 CY ..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	3,170.97 246.16 792.74 981.53	
31 64 13 00-0064 EA Bell Excavation And Concrete, 7' Bell Diameter Soft Rock/Shale 36" Shaft 2.33 CY ..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	4,765.90 374.31 1,191.48 1,480.64	
31 64 13 00-0065 EA Bell Excavation And Concrete, 8' Bell Diameter Soft Rock/Shale 42" Shaft 3.3 CY ..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	6,783.18 532.02 1,695.80 2,106.45	
31 64 13 00-0066 EA Bell Excavation And Concrete, 9' Bell Diameter Soft Rock/Shale 48" Shaft 4.48 CY ..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	8,944.11 694.88 2,236.03 2,769.22	
31 64 13 00-0067 EA Bell Excavation And Concrete, 10" Bell Diameter Soft Rock/Shale 60" Shaft 5.24 CY ..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	10,888.64 842.84 2,722.16 3,367.38	
31 64 13 00-0068 EA Bell Excavation And Concrete, 12' Bell Diameter Soft Rock/Shale 72" Shaft 8.74 CY ..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	16,506.20 1,290.24 4,126.55 5,120.37	
31 64 13 00-0069 EA Bell Excavation And Concrete, 14' Bell Diameter Soft Rock/Shale 84" Shaft 13.6 CY ..... <i>For &gt;50' To 100' Deep, Add</i> <i>For &gt;100' To 150' Deep, Add</i> <i>For &gt;150' To 200' Deep, Add</i>	24,845.91 1,948.35 6,211.48 7,715.20	

**31 64 13 00-0070 Caisson Setup And Removal** (31 64 13)

Note: Includes mobilization of equipment, erection, dismantling of equipment, move off of site.

31 64 13 00-0071 EA Erect, Set Up, Dismantle And Removal Of Caisson 18" To 36" Diameter, Complete .....	4,104.33	
31 64 13 00-0072 EA Erect, Set Up, Dismantle And Removal Of Caisson 48" To 84" Diameter, Complete .....	5,857.10	
31 64 13 00-0073 EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 18" To 36" Diameter .....	1,907.92	
31 64 13 00-0074 EA Dismantle, Relocate, Erect And Set Up On Site At Different Location (During Same Phase Of Work), Caisson 48" To 84" Diameter .....	2,543.90	
31 64 13 00-0075 EA Relocate Caisson Equipment To Different Hole On-Site Without Dismantling .....	159.00	

**31 68 Foundation Anchors** (31 60)

**31 68 13 Rock Foundation Anchors** (31 68)

**31 68 13 00-0001 Materials And Placement** (31 68 13)

**31 68 13 00-0002 Hollow Core Prestressable Anchor, ASTM A615** (31 68 13 00-0001)

Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.

**31 68 13 00-0003 3/4" Diameter** (31 68 13 00-0002)

31 68 13 00-0004 EA 3/4" Rock Bolt, 5' Hollow Core Prestressable Anchor .....	205.09	
31 68 13 00-0005 EA 3/4" Rock Bolt, 10' Hollow Core Prestressable Anchor .....	293.95	
31 68 13 00-0006 EA 3/4" Rock Bolt, 15' Hollow Core Prestressable Anchor .....	356.45	
31 68 13 00-0007 EA 3/4" Rock Bolt, 20' Hollow Core Prestressable Anchor .....	471.68	

**31 68 13 00-0008 1" Diameter** (31 68 13 00-0002)

31 68 13 00-0009 EA 1" Rock Bolt, 5' Hollow Core Prestressable Anchor .....	257.33	
31 68 13 00-0010 EA 1" Rock Bolt, 10' Hollow Core Prestressable Anchor .....	394.39	
31 68 13 00-0011 EA 1" Rock Bolt, 15' Hollow Core Prestressable Anchor .....	505.11	
31 68 13 00-0012 EA 1" Rock Bolt, 20' Hollow Core Prestressable Anchor .....	668.58	

**31 68 13 00-0013 1-3/8" Diameter** (31 68 13 00-0002)

31 68 13 00-0014 EA 1-3/8" Rock Bolt, 5' Hollow Core Prestressable Anchor .....	418.41	
31 68 13 00-0015 EA 1-3/8" Rock Bolt, 10' Hollow Core Prestressable Anchor .....	647.83	
31 68 13 00-0016 EA 1-3/8" Rock Bolt, 15' Hollow Core Prestressable Anchor .....	850.94	
31 68 13 00-0017 EA 1-3/8" Rock Bolt, 20' Hollow Core Prestressable Anchor .....	1,106.75	

**31 68 13 00-0018 2" Diameter** (31 68 13 00-0002)

31 68 13 00-0019 EA 2" Rock Bolt, 5' Hollow Core Prestressable Anchor .....	908.28	
31 68 13 00-0020 EA 2" Rock Bolt, 10' Hollow Core Prestressable Anchor .....	1,348.68	
31 68 13 00-0021 EA 2" Rock Bolt, 15' Hollow Core Prestressable Anchor .....	1,762.67	
31 68 13 00-0022 EA 2" Rock Bolt, 20' Hollow Core Prestressable Anchor .....	2,229.45	

**31 68 13 00-0023 Super High-Tensile Anchors, ASTM A-108** (31 68 13 00-0001)

Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.

**31 Earthwork****31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

31 68 13 00-0024		<b>3/4" Diameter</b> <small>(31 68 13 00-0023)</small>		
31 68 13 00-0025	EA	3/4" Rock Bolt, 5' Super High-Tensile Anchor.....	152.23	
31 68 13 00-0026	EA	3/4" Rock Bolt, 10' Super High-Tensile Anchor.....	203.08	
31 68 13 00-0027	EA	3/4" Rock Bolt, 15' Super High-Tensile Anchor.....	227.48	
31 68 13 00-0028	EA	3/4" Rock Bolt, 20' Super High-Tensile Anchor.....	302.86	
31 68 13 00-0029		<b>1" Diameter</b> <small>(31 68 13 00-0023)</small>		
31 68 13 00-0030	EA	1" Rock Bolt, 5' Super High-Tensile Anchor.....	179.35	
31 68 13 00-0031	EA	1" Rock Bolt, 10' Super High-Tensile Anchor.....	248.76	
31 68 13 00-0032	EA	1" Rock Bolt, 15' Super High-Tensile Anchor.....	289.64	
31 68 13 00-0033	EA	1" Rock Bolt, 20' Super High-Tensile Anchor.....	383.25	
31 68 13 00-0034		<b>1-1/4" Diameter</b> <small>(31 68 13 00-0023)</small>		
31 68 13 00-0035	EA	1-1/4" Rock Bolt, 5' Super High-Tensile Anchor.....	258.98	
31 68 13 00-0036	EA	1-1/4" Rock Bolt, 10' Super High-Tensile Anchor.....	362.91	
31 68 13 00-0037	EA	1-1/4" Rock Bolt, 15' Super High-Tensile Anchor.....	439.98	
31 68 13 00-0038	EA	1-1/4" Rock Bolt, 20' Super High-Tensile Anchor.....	566.57	
31 68 13 00-0039		<b>2" Diameter</b> <small>(31 68 13 00-0023)</small>		
31 68 13 00-0040	EA	2" Rock Bolt, 5' Super High-Tensile Anchor.....	664.33	
31 68 13 00-0041	EA	2" Rock Bolt, 10' Super High-Tensile Anchor.....	943.50	
31 68 13 00-0042	EA	2" Rock Bolt, 15' Super High-Tensile Anchor.....	1,149.07	
31 68 13 00-0043	EA	2" Rock Bolt, 20' Super High-Tensile Anchor.....	1,419.82	
31 68 13 00-0044		<b>Solid Rebar Anchors, ASTM A615</b> <small>(31 68 13 00-0001)</small>		
		Note: Pricing includes only material and labor to install anchors. See CSI section 31 68 13 00-0091 for head assembly, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0198 for grouting, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0045		<b>3/4" Diameter</b> <small>(31 68 13 00-0044)</small>		
31 68 13 00-0046	EA	3/4" Rock Bolt, 5' Solid Rebar Anchor.....	143.53	
31 68 13 00-0047	EA	3/4" Rock Bolt, 10' Solid Rebar Anchor.....	184.67	
31 68 13 00-0048	EA	3/4" Rock Bolt, 15' Solid Rebar Anchor.....	199.43	
31 68 13 00-0049	EA	3/4" Rock Bolt, 20' Solid Rebar Anchor.....	266.95	
31 68 13 00-0050		<b>1" Diameter</b> <small>(31 68 13 00-0044)</small>		
31 68 13 00-0051	EA	1" Rock Bolt, 5' Solid Rebar Anchor.....	160.28	
31 68 13 00-0052	EA	1" Rock Bolt, 10' Solid Rebar Anchor.....	212.38	
31 68 13 00-0053	EA	1" Rock Bolt, 15' Solid Rebar Anchor.....	238.15	
31 68 13 00-0054	EA	1" Rock Bolt, 20' Solid Rebar Anchor.....	316.59	
31 68 13 00-0055		<b>1-1/4" Diameter</b> <small>(31 68 13 00-0044)</small>		
31 68 13 00-0056	EA	1-1/4" Rock Bolt, 5' Solid Rebar Anchor.....	227.31	
31 68 13 00-0057	EA	1-1/4" Rock Bolt, 10' Solid Rebar Anchor.....	293.88	
31 68 13 00-0058	EA	1-1/4" Rock Bolt, 15' Solid Rebar Anchor.....	334.20	
31 68 13 00-0059	EA	1-1/4" Rock Bolt, 20' Solid Rebar Anchor.....	427.21	
31 68 13 00-0060		<b>Resin Anchoring With Grade 60 Rebar</b> <small>(31 68 13 00-0001)</small>		
		Note: Pricing includes only material and labor to install anchors.. See CSI section 31 68 13 00-0081 for rebar collars, 31 68 13 00-0083 for resin cartridges, 31 68 13 00-0118 for steel plates and washers, 31 68 13 00-0154 for drilling operation, 31 68 13 00-0176 for tools, 31 68 13 00-0207 for rock bolt testing.		
31 68 13 00-0061		<b>Rebar #6</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0062	EA	#6 Rebar Rock Anchor, 5' Resin Anchor With Grade 60 Rebar.....	84.71	
31 68 13 00-0063	EA	#6 Rebar Rock Anchor, 10' Resin Anchor With Grade 60 Rebar.....	116.67	
31 68 13 00-0064	EA	#6 Rebar Rock Anchor, 15' Resin Anchor With Grade 60 Rebar.....	122.29	
31 68 13 00-0065	EA	#6 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	169.40	
31 68 13 00-0066		<b>Rebar #8</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0067	EA	#8 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	89.08	
31 68 13 00-0068	EA	#8 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	125.41	
31 68 13 00-0069	EA	#8 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	135.40	
31 68 13 00-0070	EA	#8 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	198.11	
31 68 13 00-0071		<b>Rebar #10</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0072	EA	#10 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	95.32	
31 68 13 00-0073	EA	#10 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	137.89	
31 68 13 00-0074	EA	#10 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	154.12	
31 68 13 00-0075	EA	#10 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	223.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>31 68 13 00-0076</b> <b>Rebar #14</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0077     EA     #14 Rebar Rock Bolt, 5' Resin Anchor With Grade 60 Rebar.....	110.29	
31 68 13 00-0078     EA     #14 Rebar Rock Bolt, 10' Resin Anchor With Grade 60 Rebar.....	167.85	
31 68 13 00-0079     EA     #14 Rebar Rock Bolt, 15' Resin Anchor With Grade 60 Rebar.....	199.05	
31 68 13 00-0080     EA     #14 Rebar Rock Bolt, 20' Resin Anchor With Grade 60 Rebar.....	282.99	
<b>31 68 13 00-0081</b> <b>Plastic Rebar Collars, Sizes #6-#14</b> <small>(31 68 13 00-0060)</small>		
31 68 13 00-0082     EA     Plastic Rebar Collars For Rebar #4 To #14.....	2.36	
<b>31 68 13 00-0083</b> <b>12" Long Resin Cartridges</b> <small>(31 68 13 00-0001)</small>		
31 68 13 00-0084     EA     7/8" Resin Cartridge 12" Long.....	1.91	
31 68 13 00-0085     EA     1" Resin Cartridge 12" Long.....	2.62	
31 68 13 00-0086     EA     1-1/16" Resin Cartridge 12" Long.....	2.81	
31 68 13 00-0087     EA     1-1/4" Resin Cartridge 12" Long.....	3.03	
31 68 13 00-0088     EA     1-3/8" Resin Cartridge 12" Long.....	3.48	
31 68 13 00-0089     EA     1-9/16" Resin Cartridge 12" Long.....	4.36	
31 68 13 00-0090     EA     1-3/4" Resin Cartridge 12" Long.....	5.99	
<b>31 68 13 00-0091</b> <b>Head Assembly</b> <small>(31 68 13 00-0001)</small>		
<b>31 68 13 00-0092</b> <b>3/4" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0093     EA     3/4" Rod Head Assembly 1-5/8" Short Cone and Shell.....	27.30	
31 68 13 00-0094     EA     3/4" Rod Head Assembly 1-3/4" Short Cone and Shell.....	23.00	
31 68 13 00-0095     EA     3/4" Rod Head Assembly 1-7/8" Short Cone and Shell.....	24.12	
31 68 13 00-0096     EA     3/4" Rod Head Assembly 1-3/4" Long Cone and Shell.....	43.31	
31 68 13 00-0097     EA     3/4" Rod Head Assembly 1-7/8" Long Cone and Shell.....	43.31	
31 68 13 00-0098     EA     3/4" Rod Head Assembly 1-3/4" Long Cone and Shell.....	41.03	
<b>31 68 13 00-0099</b> <b>1" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0100     EA     1" Rod Head Assembly 1-5/8" Short Cone and Shell.....	29.43	
31 68 13 00-0101     EA     1" Rod Head Assembly 1-3/4" Short Cone and Shell.....	25.18	
31 68 13 00-0102     EA     1" Rod Head Assembly 1-7/8" Short Cone and Shell.....	26.31	
31 68 13 00-0103     EA     1" Rod Head Assembly 1-3/4" Long Cone and Shell.....	45.56	
31 68 13 00-0104     EA     1" Rod Head Assembly 1-7/8" Long Cone and Shell.....	45.56	
31 68 13 00-0105     EA     1" Rod Head Assembly 1-3/4" Long Cone and Shell.....	43.44	
<b>31 68 13 00-0106</b> <b>1-1/4" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0107     EA     1-1/4" Rod Head Assembly 2" Short Cone and Shell.....	65.65	
31 68 13 00-0108     EA     1-1/4" Rod Head Assembly 2-1/4" Short Cone and Shell.....	76.70	
31 68 13 00-0109     EA     1-1/4" Rod Head Assembly 2-1/2" Short Cone and Shell.....	77.79	
31 68 13 00-0110     EA     1-1/4" Rod Head Assembly 2-1/4" Long Cone and Shell.....	68.99	
31 68 13 00-0111     EA     1-1/4" Rod Head Assembly 2-1/2" Long Cone and Shell.....	80.44	
<b>31 68 13 00-0112</b> <b>1-7/8" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0113     EA     1-7/8" Rod Head Assembly 3-1/2" Long Cone/Shell/FI.....	258.40	
31 68 13 00-0114     EA     1-7/8" Rod Head Assembly 3" Long Cone and Shell.....	178.15	
<b>31 68 13 00-0115</b> <b>2" Rod Diameter</b> <small>(31 68 13 00-0091)</small>		
31 68 13 00-0116     EA     2" Rod Head Assembly 3-1/2" Long Cone/Shell/FI.....	258.40	
31 68 13 00-0117     EA     2" Rod Head Assembly 3" Long Cone and Shell.....	178.15	
<b>31 68 13 00-0118</b> <b>Steel Plates With Standard Hole And Washers</b> <small>(31 68 13 00-0001)</small>		
<b>31 68 13 00-0119</b> <b>Steel Plates</b> <small>(31 68 13 00-0118)</small>		
31 68 13 00-0120     EA     1/4" x 4" x 4" Steel Plate For Rock Bolt With Washer.....	3.75	
31 68 13 00-0121     EA     1/4" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	6.93	
31 68 13 00-0122     EA     3/8" x 6" x 6" Steel Plate For Rock Bolt With Washer.....	9.65	
31 68 13 00-0123     EA     3/8" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	16.91	
31 68 13 00-0124     EA     1/2" x 5" x 5" Steel Plate For Rock Bolt With Washer.....	6.57	
31 68 13 00-0125     EA     1/2" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	17.25	
31 68 13 00-0126     EA     3/4" x 7" x 7" Steel Plate For Rock Bolt With Washer.....	28.63	
31 68 13 00-0127     EA     3/4" x 8" x 8" Steel Plate For Rock Bolt With Washer.....	40.56	
31 68 13 00-0128     EA     1" x 4" x 7" Steel Plate For Rock Bolt With Washer.....	24.35	
31 68 13 00-0129     EA     1" x 9" x 9" Steel Plate For Rock Bolt With Washer.....	68.88	
31 68 13 00-0130     EA     1" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	101.50	
31 68 13 00-0131     EA     1-1/4" x 5" x 8" Steel Plate For Rock Bolt With Washer.....	44.56	
31 68 13 00-0132     EA     1-1/4" x 11" x 11" Steel Plate For Rock Bolt With Washer.....	120.51	
31 68 13 00-0133     EA     1-1/2" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	60.27	
31 68 13 00-0134     EA     1-1/2" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	144.95	
31 68 13 00-0135     EA     1-3/4" x 5" x 10" Steel Plate For Rock Bolt With Washer.....	66.52	
31 68 13 00-0136     EA     1-3/4" x 12" x 12" Steel Plate For Rock Bolt With Washer.....	160.76	

**31 Earthwork****31 60 Special Foundations and Load-bearing Elements****31 68 Foundation Anchors**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>31 68 13 00-0137</b>	<b>Hardened Washers</b> <small>(31 68 13 00-0118)</small>		
31 68 13 00-0138	EA Hardened Washer For 3/4" Diameter Rock Bolt .....	0.90	
31 68 13 00-0139	EA Hardened Washer For 1" Diameter Rock Bolt .....	1.25	
31 68 13 00-0140	EA Hardened Washer For 1-1/4" Diameter Rock Bolt .....	3.50	
31 68 13 00-0141	EA Hardened Washer For 2" Diameter Rock Bolt .....	8.71	
<b>31 68 13 00-0142</b>	<b>Beveled Washers</b> <small>(31 68 13 00-0118)</small>		
31 68 13 00-0143	EA Beveled Washer For 3/4" Diameter Rock Bolt .....	2.28	
31 68 13 00-0144	EA Beveled Washer For 7/8" To 1-1/8" Diameter Rock Bolt .....	2.25	
31 68 13 00-0145	EA Beveled Wash For 1-1/4" To 1-3/8" Diameter Rock Bolt .....	3.40	
31 68 13 00-0146	EA Beveled Washer For 1-1/2" Diameter Rock Bolt .....	14.54	
31 68 13 00-0147	EA Beveled Washer For 2" Diameter Rock Bolt .....	10.05	
<b>31 68 13 00-0148</b>	<b>Hex Nuts</b> <small>(31 68 13 00-0118)</small>		
31 68 13 00-0149	EA Hex Nut For 3/4" Diameter Rock Bolt .....	1.78	
31 68 13 00-0150	EA Hex Nut For 1" Diameter Rock Bolt .....	2.90	
31 68 13 00-0151	EA Hex Nut For 1-1/4" Diameter Rock Bolt .....	11.89	
31 68 13 00-0152	EA Hex Nut For 1-1/2" Diameter Rock Bolt .....	7.49	
31 68 13 00-0153	EA Hex Nut For 2" Diameter Rock Bolt .....	47.77	
<b>31 68 13 00-0154</b>	<b>Drilling Operation For Rockbolts</b> <small>(31 68 13)</small>		
<b>31 68 13 00-0155</b>	<b>Drill Holes For Rock Bolts</b> <small>(31 68 13 00-0154)</small>		
<b>31 68 13 00-0156</b>	<b>3/4" Diameter Bolt, 1-3/4" Hole</b> <small>(31 68 13 00-0155)</small>		
31 68 13 00-0157	EA Drill 1-3/4" Diameter Hole x 5' Long For 3/4" Diameter Rock Bolts .....	188.38	
31 68 13 00-0158	EA Drill 1-3/4" Diameter Hole x 10' Long For 3/4" Diameter Rock Bolts .....	355.82	
31 68 13 00-0159	EA Drill 1-3/4" Diameter Hole x 15' Long For 3/4" Diameter Rock Bolts .....	533.74	
31 68 13 00-0160	EA Drill 1-3/4" Diameter Hole x 20' Long For 3/4" Diameter Rock Bolts .....	640.48	
<b>31 68 13 00-0161</b>	<b>1" Diameter Bolt, 2" Hole</b> <small>(31 68 13 00-0155)</small>		
31 68 13 00-0162	EA Drill 2" Diameter Hole x 5' Long For 1" Diameter Rock Bolt .....	246.34	
31 68 13 00-0163	EA Drill 2" Diameter Hole x 10' Long For 1" Diameter Rock Bolt .....	457.49	
31 68 13 00-0164	EA Drill 2" Diameter Hole x 15' Long For 1" Diameter Rock Bolt .....	640.48	
31 68 13 00-0165	EA Drill 2" Diameter Hole x 20' Long For 1" Diameter Rock Bolt .....	800.60	
<b>31 68 13 00-0166</b>	<b>1-1/4" Diameter Bolt, 2-1/4" Hole</b> <small>(31 68 13 00-0155)</small>		
31 68 13 00-0167	EA Drill 2-1/4" Diameter Hole x 5' Long For 1-1/4" Diameter Rock Bolt .....	266.87	
31 68 13 00-0168	EA Drill 2-1/4" Diameter Hole x 10' Long For 1-1/4" Diameter Rock Bolt .....	533.74	
31 68 13 00-0169	EA Drill 2-1/4" Diameter Hole x 15' long For 1-1/4" Diameter Rock Bolt .....	800.60	
31 68 13 00-0170	EA Drill 2-1/4" Diameter Hole x 20' Long For 1-1/4" Diameter Rock Bolt .....	1,067.47	
<b>31 68 13 00-0171</b>	<b>2" Diameter Bolt, 3-1/2" Hole</b> <small>(31 68 13 00-0155)</small>		
31 68 13 00-0172	EA Drill 3-1/2" Diameter Hole x 5 Long For 2" Diameter Rock Bolt .....	320.24	
31 68 13 00-0173	EA Drill 3-1/2" Diameter Hole x 10' Long For 2" Diameter Rock Bolt .....	640.48	
31 68 13 00-0174	EA Drill 3-1/2" Diameter Hole x 15' Long For 2" Diameter Rock Bolts .....	1,067.47	
31 68 13 00-0175	EA Drill 3-1/2" Diameter Hole x 20' Long For 2" Diameter Rock Bolt .....	1,601.21	
<b>31 68 13 00-0176</b>	<b>Tools</b> <small>(31 68 13)</small>		
<b>31 68 13 00-0177</b>	<b>Hydraulic Jacks, Monthly Rental</b> <small>(31 68 13 00-0176)</small>		
31 68 13 00-0178	EA 1/2" To 1", 30 Ton Hydraulic Jack For Rock Bolt, 2" Stroke .....	726.91	
31 68 13 00-0179	EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 3" Stroke .....	1,071.24	
31 68 13 00-0180	EA 1-1/8" To 1-3/8", 60 Ton Hydraulic Jack For Rock Bolt, 10" Stroke .....	1,797.12	
31 68 13 00-0181	EA 1-7/8" To 2", 100 Ton Hydraulic Jack For Rock Bolt, 10" Stroke .....	2,690.51	
31 68 13 00-0182	EA 1-7/8" To 2", 150 Ton Hydraulic Jack For Rock Bolt, 12" Stroke .....	4,021.82	
<b>31 68 13 00-0183</b>	<b>Torque Wrenches And Ratchet Adapter, Monthly Rental</b> <small>(31 68 13 00-0176)</small>		
<b>31 68 13 00-0184</b>	<b>0-500 Foot Pounds (0-678J)</b> <small>(31 68 13 00-0183)</small>		
31 68 13 00-0185	EA 1/2" To 1" Bolt Diameter Torque Wrench 0 To 500 Foot Pounds, Monthly Rental .....	254.37	
31 68 13 00-0186	EA Torque Wrench Ratchet Adapter Monthly Rental, 0 To 500 Foot Pounds .....	159.45	
31 68 13 00-0187	EA Torque Wrench With Adapter 0 To 500 Foot Pounds, Monthly Rental .....	414.13	
<b>31 68 13 00-0188</b>	<b>0-600 Foot Pounds (0-814J)</b> <small>(31 68 13 00-0183)</small>		
31 68 13 00-0189	EA 0 To 600 Foot Pounds Torque Wrench Self-Ratcheting, Monthly Rental .....	288.80	
<b>31 68 13 00-0190</b>	<b>Up To 1,000 Foot Pounds (0-1356J)</b> <small>(31 68 13 00-0183)</small>		





<b>Earthwork</b>	<b>31</b>	<b>13</b>
<b>Special Foundations and Load-bearing Elements</b>	<b>31 60</b>	
<b>Foundation Anchors</b>	<b>31 68</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
31 68 13 00-0191 EA 1-1/8" To 2" Bolt Diameter Torque Wrench 0 To 1,000 Foot Pounds, Monthly Rental .....	554.65	
31 68 13 00-0192 EA Torque Wrench Ratchet Adapter 0 To 1,000 Foot Pounds, Monthly Rental .....	136.80	
31 68 13 00-0193 EA Torque Wrench With Ratchet 0 To 1,000 Foot Pounds, Monthly Rental .....	691.45	
<b>31 68 13 00-0194 Torque Multiplier, 4:1 Multiplier <small>(31 68 13 00-0176)</small></b>		
31 68 13 00-0195 EA Torque Multiplier, 4 To 1 Ratio.....	710.37	
<b>31 68 13 00-0196 Pneumatic Drive Torque Wrench <small>(31 68 13 00-0176)</small></b>		
31 68 13 00-0197 EA Pneumatic Drive Torque Wrench 250 To 900 Foot Pounds (339J - 1220J) .....	1,520.01	
<b>31 68 13 00-0198 Grouting <small>(31 68 13)</small></b>		
<b>31 68 13 00-0199 Grouting With Pumps <small>(31 68 13 00-0198)</small></b>		
Note: Grout material and labor only.		
31 68 13 00-0200 GAL Rock Bolt Grouting, Hand Pump 1 To 2 GPM Delivery .....	22.84	
31 68 13 00-0201 GAL Rock Bolt Grouting, Air Pump 3 To 4 GPM Continuous Delivery .....	35.73	
31 68 13 00-0202 GAL Rock Bolt Grout, Air/Piston Pump 2 To 4 GPM Delivery .....	32.96	
<b>31 68 13 00-0203 Grout Pumps, Monthly Rental <small>(31 68 13 00-0198)</small></b>		
31 68 13 00-0204 EA Hand Grout Pump, Monthly Rental .....	153.15	
31 68 13 00-0205 EA Air Powered Programmable Feed Grout Pump Monthly Rental .....	1,288.32	
31 68 13 00-0206 EA Air Powered, Piston Drive Grout Pump Monthly Rental.....	2,249.29	
<b>31 68 13 00-0207 Rock Bolt Testing <small>(31 68 13)</small></b>		
31 68 13 00-0208 EA Rock Bolt Test, Low To Medium Capacity LF >100 Bolts Need Testing.....	600.09	

**END OF SECTION 31**

<b>31</b>	<b>31</b>	<b>Earthwork</b>
	<b>31 60</b>	<b>Special Foundations and Load-bearing Elements</b>
	31 68	Foundation Anchors



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 32 Exterior Improvements

### 32 01 Operation and Maintenance of Exterior Improvements <sup>(32)</sup>

#### 32 01 11 Paving Cleaning <sup>(32 01)</sup>

##### 32 01 11 53 Paint Removal from Paving <sup>(32 01 11)</sup>

##### 32 01 11 53-0001 Remove Pavement Markings <sup>(32 01 11 53)</sup>

Note: Includes stripe removal by grinding, vacuuming of removed striped area and containment of debris.

32 01 11 53-0002	LF Removal Of 4" Wide Painted Or Epoxy Pavement Striping .....		2.10
	For Up To 250, Add		1.05
	For >250 To 1,000, Add		0.53
	For >5,000 To 10,000, Deduct		-0.32
	For >10,000 To 25,000, Deduct		-0.53
	For >25,000 To 50,000, Deduct		-0.74
	For >50,000, Deduct		-0.84
32 01 11 53-0003	LF Removal Of 6" Wide Painted Or Epoxy Pavement Striping .....		2.52
	For Up To 250, Add		1.26
	For >250 To 1,000, Add		0.63
	For >5,000 To 10,000, Deduct		-0.38
	For >10,000 To 25,000, Deduct		-0.63
	For >25,000 To 50,000, Deduct		-0.88
	For >50,000, Deduct		-1.01
32 01 11 53-0004	LF Removal Of 8" Wide Painted Or Epoxy Pavement Striping .....		3.02
	For Up To 250, Add		1.51
	For >250 To 1,000, Add		0.76
	For >5,000 To 10,000, Deduct		-0.45
	For >10,000 To 25,000, Deduct		-0.76
	For >25,000 To 50,000, Deduct		-1.06
	For >50,000, Deduct		-1.21
32 01 11 53-0005	LF Removal Of 12" Wide Painted Or Epoxy Pavement Striping .....		3.62
	For Up To 250, Add		1.81
	For >250 To 1,000, Add		0.91
	For >5,000 To 10,000, Deduct		-0.54
	For >10,000 To 25,000, Deduct		-0.91
	For >25,000 To 50,000, Deduct		-1.27
	For >50,000, Deduct		-1.45
32 01 11 53-0006	SF Removal Of Painted Or Epoxy Pavement Marking, Letters Or Symbols .....		3.62
	For Up To 250, Add		1.81
	For >250 To 1,000, Add		0.91
	For >5,000 To 10,000, Deduct		-0.54
	For >10,000 To 25,000, Deduct		-0.91
	For >25,000 To 50,000, Deduct		-1.27
	For >50,000, Deduct		-1.45
32 01 11 53-0007	LF Removal Of 4" Wide Thermoplastic Pavement Striping .....		2.70
	For Up To 250, Add		1.35
	For >250 To 1,000, Add		0.68
	For >5,000 To 10,000, Deduct		-0.41
	For >10,000 To 25,000, Deduct		-0.68
	For >25,000 To 50,000, Deduct		-0.95
	For >50,000, Deduct		-1.08
32 01 11 53-0008	LF Removal Of 6" Wide Thermoplastic Pavement Striping .....		3.19
	For Up To 250, Add		1.60
	For >250 To 1,000, Add		0.80
	For >5,000 To 10,000, Deduct		-0.48
	For >10,000 To 25,000, Deduct		-0.80
	For >25,000 To 50,000, Deduct		-1.12
	For >50,000, Deduct		-1.28
32 01 11 53-0009	LF Removal Of 8" Wide Thermoplastic Pavement Striping .....		3.86
	For Up To 250, Add		1.93
	For >250 To 1,000, Add		0.97
	For >5,000 To 10,000, Deduct		-0.58
	For >10,000 To 25,000, Deduct		-0.97
	For >25,000 To 50,000, Deduct		-1.35
	For >50,000, Deduct		-1.54
32 01 11 53-0010	LF Removal Of 12" Wide Thermoplastic Pavement Striping .....		4.62
	For Up To 250, Add		2.31
	For >250 To 1,000, Add		1.16
	For >5,000 To 10,000, Deduct		-0.69
	For >10,000 To 25,000, Deduct		-1.16
	For >25,000 To 50,000, Deduct		-1.62
	For >50,000, Deduct		-1.85
32 01 11 53-0011	SF Removal Of Thermoplastic Pavement Marking, Letters Or Symbols .....		4.62
	For Up To 250, Add		2.31
	For >250 To 1,000, Add		1.16
	For >5,000 To 10,000, Deduct		-0.69
	For >10,000 To 25,000, Deduct		-1.16
	For >25,000 To 50,000, Deduct		-1.62
	For >50,000, Deduct		-1.85

#### 32 01 13 Flexible Paving Surface Treatment <sup>(32 01)</sup>

**32 Exterior Improvements****32 01 Operation and Maintenance of Exterior Improvements****32 01 13 Flexible Paving Surface Treatment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**32 01 13 61 Slurry Seal (Latex Modified)** (32 01 13)**32 01 13 61-0001 Asphalt Seal Coating, For Roads And Parking Lot** (32 01 13 61)

Note: Includes sweeping and cleaning of area.

32 01 13 61-0002	EA	Asphalt Seal Coating Minimum Charge .....	964.81
		Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
32 01 13 61-0003	SY	Up To 500 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	5.22
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.34
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.40
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.50
		For Each 0.5% Of Latex Addition, Add	0.43
32 01 13 61-0004	SY	>500 To 1,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.89
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.32
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.38
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.48
		For Each 0.5% Of Latex Addition, Add	0.43
32 01 13 61-0005	SY	>1,000 To 5,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.64
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.47
		For Each 0.5% Of Latex Addition, Add	0.43
32 01 13 61-0006	SY	>5,000 To 20,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.41
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46
		For Each 0.5% Of Latex Addition, Add	0.43
32 01 13 61-0007	SY	>20,000 To 50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.20
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45
		For Each 0.5% Of Latex Addition, Add	0.43
32 01 13 61-0008	SY	>50,000 SY, Type II Slurry Seal Asphalt Coating, Per Coat.....	4.00
		Note: 1/4" thick, 14 to 18 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44
		For Each 0.5% Of Latex Addition, Add	0.43
32 01 13 61-0009	SY	Up To 500 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	6.56
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.35
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.41
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.51
		For Each 0.5% Of Latex Addition, Add	0.69
32 01 13 61-0010	SY	>500 To 1,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	6.21
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.33
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.39
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.49
		For Each 0.5% Of Latex Addition, Add	0.69
32 01 13 61-0011	SY	>1,000 To 5,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.94
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.31
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.37
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.47
		For Each 0.5% Of Latex Addition, Add	0.69
32 01 13 61-0012	SY	>5,000 To 20,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.70
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.30
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.36
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.46
		For Each 0.5% Of Latex Addition, Add	0.69
32 01 13 61-0013	SY	>20,000 To 50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.47
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.29
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.35
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.45
		For Each 0.5% Of Latex Addition, Add	0.69
32 01 13 61-0014	SY	>50,000 SY, Type III Slurry Seal Asphalt Coating, Per Coat.....	5.26
		Note: 3/8" thick, 25 to 30 Lbs/SY.	
		For Tire Rubber Modified Slurry Seal (TRMSS), Add	0.28
		For Rubberized Emulsion Aggregate Slurry (REAS), Add	0.34
		For Rubberized Polymer Modified Emulsion (RPME), Add	0.44
		For Each 0.5% Of Latex Addition, Add	0.69

**32 01 13 62 Asphalt Surface Treatment** (32 01 13)**32 01 13 62-0001 Polymer-Modified, Microsurfacing Emulsion (MSE Microsurfacing)** (32 01 13 62)

Note: Use a blend of emulsified quick-set polymer-modified emulsion asphalt and latex-based polymer. Includes sweeping and cleaning of area.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 13 62-0002 SY Up To 200 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	11.71	
32 01 13 62-0003 SY Up To 500 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	11.18	
32 01 13 62-0004 SY >500 To 1,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	10.70	
32 01 13 62-0005 SY >1,000 To 5,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	10.30	
32 01 13 62-0006 SY >5,000 To 10,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.94	
32 01 13 62-0007 SY >10,000 To 20,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.63	
32 01 13 62-0008 SY >20,000 To 50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.41	
32 01 13 62-0009 SY >50,000 SY, 3/8" Polymer-Modified Microsurfacing Emulsion (MSE).....	9.28	

**32 01 16 Flexible Paving Rehabilitation** (32 01)

**32 01 16 71 Cold Milling Asphalt Pavement** (32 01 16)

**32 01 16 71-0001 Removal Of Asphalt Surface Course** (32 01 16 71)

Note: Includes direct loading into truck.

**32 01 16 71-0002 Production Cold Milling Of Roads And Parking Areas** (32 01 16 71-0001)

Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0039 for hauling.

32 01 16 71-0003 SY Up To 3" Depth, Production Cold Milling Of Asphalt.....	4.70
For Up To 2,500, Add	3.53
For >2,500 To 5,000, Add	1.18
For >10,000 To 25,000, Deduct	-0.47
For >25,000, Deduct	-0.71
32 01 16 71-0004 SY >3" To 6" Depth, Production Cold Milling Of Asphalt.....	6.27
For Up To 2,500, Add	4.70
For >2,500 To 5,000, Add	1.57
For >10,000 To 25,000, Deduct	-0.63
For >25,000, Deduct	-0.94
32 01 16 71-0005 SY >6" To 12" Depth, Production Cold Milling Of Asphalt.....	8.35
For Up To 2,500, Add	6.26
For >2,500 To 5,000, Add	2.09
For >10,000 To 25,000, Deduct	-0.84
For >25,000, Deduct	-1.25

**32 01 16 71-0006 Limited Production Cold Milling** (32 01 16 71-0001)

Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0039 for hauling.

32 01 16 71-0007 SY Up To 3" Depth, Limited Cold Milling Of Asphalt.....	29.75
For >100 To 1,000, Deduct	-14.88
For >1,000, Deduct	-22.31
32 01 16 71-0008 SY >3" To 6" Depth, Limited Cold Milling Of Asphalt.....	39.40
For >100 To 1,000, Deduct	-19.70
For >1,000, Deduct	-29.55
32 01 16 71-0009 SY >6" To 12" Depth, Limited Cold Milling Of Asphalt.....	52.46
For >100 To 1,000, Deduct	-26.23
For >1,000, Deduct	-39.35

**32 01 16 71-0010 Grind, Leave In-Place Asphalt Grindings** (32 01 16 71)

Note: For use as subbase material, includes spreading and rolling.

32 01 16 71-0011 SY Grind, Leave In-Place As Subbase Course, 6-9" Depth.....	7.71
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**32 01 16 71-0012 Wedge Grinding Cold Milling** (32 01 16 71)

Note: Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes water truck. Excludes mobilization, sweeping and cleaning, hauling and disposal. See CSI section 01 74 16 00-0001 for sweeping and cleaning.

32 01 16 71-0013 LF 5' Wedge Grinding/Cold Milling Of Asphalt Up To 3" Depth.....	8.26
32 01 16 71-0014 LF 10' Wedge Grinding/Cold Milling Of Asphalt Up To 3" Depth.....	16.52

**32 01 16 71-0015 Cutback Ramp** (32 01 16 71)

32 01 16 71-0016 LF 1" Differential, 5' Length, Cutback Ramp.....	12.75
32 01 16 71-0017 LF 1-1/2" Differential, 5' Length, Cutback Ramp.....	15.65
32 01 16 71-0018 LF 2" Differential, 5' Length, Cutback Ramp.....	18.29

**32 01 16 74 In Place Hot Reused Asphalt Paving** (32 01 16)

**32 01 16 74-0001 Rejuvenate, Respread Asphalt Pavement** (32 01 16 74)

Note: Includes direct loading into truck.

32 01 16 74-0002 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep.....	11.34
32 01 16 74-0003 SY Removal, Rejuvenation, And Respreading Of Asphalt Grindings To 1/2" Deep, Previously Sealed Cold Tar.....	13.72
32 01 16 74-0004 TON Removal, Rejuvenation, And Respreading Of Asphalt Grindings.....	203.38

**32 01 16 74-0005 Reclamation, Pulverize And Blending With Existing** (32 01 16 74)

Note: Includes direct loading into truck.

**32 Exterior Improvements****32 01 Operation and Maintenance of Exterior Improvements****32 01 16 Flexible Paving Rehabilitation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 16 74-0006	SY		Up To 2" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	16.02	
32 01 16 74-0007	SY		Up To 2" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	8.01	
32 01 16 74-0008	SY		Up To 2" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.01	
32 01 16 74-0009	SY		Up To 2" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	3.79	
32 01 16 74-0010	SY		>2" To 3" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.38	
32 01 16 74-0011	SY		>2" To 3" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	17.48	
32 01 16 74-0012	SY		>2" To 3" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	8.74	
32 01 16 74-0013	SY		>2" To 3" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.12	
32 01 16 74-0014	SY		>3" To 4" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	19.23	
32 01 16 74-0015	SY		>3" To 4" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	9.61	
32 01 16 74-0016	SY		>3" To 4" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.81	
32 01 16 74-0017	SY		>3" To 4" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.43	
32 01 16 74-0018	SY		>4" To 8" Thick Pavement, Up To 1,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	20.97	
32 01 16 74-0019	SY		>4" To 8" Thick Pavement, >1,000 To 5,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	10.49	
32 01 16 74-0020	SY		>4" To 8" Thick Pavement, >5,000 To 15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	5.25	
32 01 16 74-0021	SY		>4" To 8" Thick Pavement, >15,000 SY, Reclamation, Pulverizing And Blending With Existing Base; Aggregate Base.....	4.89	
32 01 16 74-0022	EA		Mobilization And Demobilization For Reclamation, Pulverizing And Blending Crew.....	1,802.90	

**32 01 17 Flexible Paving Repair** (32 01)

See CSI section 32 12 16 00-0000 for large area resurfacing.

**32 01 17 61 Sealing Cracks in Asphalt Paving** (32 01 17)

Note: Includes removing loose materials and cleaning.

**32 01 17 61-0001 Hot-Applied, Pourable, Self-Adhesive Asphalt Binder Compounded With Standard Weight Aggregate Longitudinal Crack And Sealing Repair** (32 01 17 61)

Note: Includes removing loose materials and cleaning.

32 01 17 61-0002	LF		Up To 200 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.87	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.54	
			For 1" x 1/2" Fill, Add	1.02	
			For Backer Rod, Add	1.09	
32 01 17 61-0003	LF		>200 To 500 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.53	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.45	
			For 1" x 1/2" Fill, Add	0.86	
			For Backer Rod, Add	0.98	
32 01 17 61-0004	LF		>500 To 2,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.22	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.37	
			For 1" x 1/2" Fill, Add	0.70	
			For Backer Rod, Add	0.87	
32 01 17 61-0005	LF		>2,000 To 5,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	1.05	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.32	
			For 1" x 1/2" Fill, Add	0.61	
			For Backer Rod, Add	0.81	
32 01 17 61-0006	LF		>5,000 To 10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.94	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.28	
			For 1" x 1/2" Fill, Add	0.54	
			For Backer Rod, Add	0.76	
32 01 17 61-0007	LF		>10,000 LF Fill Cracks Up To 1/2" x 1/2" With Hot Asphalt Crack Filler.....	0.86	
			Note: Includes air cleaning of cracks. Excludes backer rod where required and routing of crack.		
			For 3/4" x 1/2" Fill, Add	0.26	
			For 1" x 1/2" Fill, Add	0.49	
			For Backer Rod, Add	0.72	
32 01 17 61-0008	LF		Up To 200 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	3.09	
			For 3/8" x 1/4" Fill, Add	0.74	
			For 1/2" x 1/4" Fill, Add	1.37	
			For 1/2" x 1/2" Fill, Add	3.32	
32 01 17 61-0009	LF		>200 To 500 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	2.50	
			For 3/8" x 1/4" Fill, Add	0.61	
			For 1/2" x 1/4" Fill, Add	1.14	
			For 1/2" x 1/2" Fill, Add	2.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 17 61-0010 LF >500 To 2,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler .....	1.94	
For 3/8" x 1/4" Fill, Add	0.49	
For 1/2" x 1/4" Fill, Add	0.91	
For 1/2" x 1/2" Fill, Add	2.23	
32 01 17 61-0011 LF >2,000 To 5,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler .....	1.70	
For 3/8" x 1/4" Fill, Add	0.43	
For 1/2" x 1/4" Fill, Add	0.80	
For 1/2" x 1/2" Fill, Add	1.98	
32 01 17 61-0012 LF >5,000 To 10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.53	
For 3/8" x 1/4" Fill, Add	0.38	
For 1/2" x 1/4" Fill, Add	0.71	
For 1/2" x 1/2" Fill, Add	1.76	
32 01 17 61-0013 LF >10,000 LF Fill Cracks Up To 1/4" x 1/4" With Cold Pour Rubberized Asphalt Crack Filler.....	1.42	
For 3/8" x 1/4" Fill, Add	0.35	
For 1/2" x 1/4" Fill, Add	0.66	
For 1/2" x 1/2" Fill, Add	1.61	
32 01 17 61-0014 LF For Routing And Cleaning Of Crack, Add Per 1/2" Depth.....	0.54	

**32 01 17 63 Flexible Pavement Repair (32 01 17)**

**32 01 17 63-0001 Temporary Pot Hole Repair (32 01 17 63)**

Note: Includes removal of loose material and moisture, bonding agent, compaction, safety cones and hauling up to 15 miles. Excludes signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

32 01 17 63-0002 EA Temporary Pot Hole Repairs With Cold Mix Modified, Up To 3 Tons .....	1,743.48
32 01 17 63-0003 TON Temporary Pot Hole Repairs With Cold Mix Modified.....	528.90
Note: Use for each ton over 3 tons.	
32 01 17 63-0004 EA Temporary Pot Hole Repairs With Cold Mix, Up To 3 Tons.....	1,660.21
32 01 17 63-0005 TON Temporary Pot Hole Repairs With Cold Mix .....	501.14
Note: Use for each ton over 3 tons.	
32 01 17 63-0006 EA Temporary Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,618.57
32 01 17 63-0007 TON Temporary Pot Hole Repairs With Hot Mix Modified.....	487.26
Note: Use for each ton over 3 tons.	
32 01 17 63-0008 EA Temporary Pot Hole Repairs With Hot Mix, Up To 3 Tons .....	1,576.93
32 01 17 63-0009 TON Temporary Pot Hole Repairs With Hot Mix .....	473.38
Note: Use for each ton over 3 tons.	

**32 01 17 63-0010 Permanent Pot Hole Repair (32 01 17 63)**

Note: Includes removal of loose material and moisture, saw cutting, chipping, squaring off, bonding agent, compaction and hauling up to 15 miles Tasks do not include signage, barricades, flagmen, field survey or marking. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

32 01 17 63-0011 EA Permanent Pot Hole Repairs With Cold Mix, Up To 3 Tons .....	1,859.77
32 01 17 63-0012 TON Permanent Pot Hole Repairs With Cold Mix .....	604.85
Note: Use for each ton over 3 tons.	
32 01 17 63-0013 EA Permanent Pot Hole Repairs With Hot Mix Modified, Up To 3 Tons.....	1,818.13
32 01 17 63-0014 TON Permanent Pot Hole Repairs With Hot Mix Modified .....	590.97
Note: Use for each ton over 3 tons.	
32 01 17 63-0015 EA Permanent Pot Hole Repairs With Hot Mix, Up To 3 Tons .....	1,776.49
32 01 17 63-0016 TON Permanent Pot Hole Repairs With Hot Mix .....	577.09
Note: Use for each ton over 3 tons.	

**32 01 17 63-0017 Asphalt Placement For Small Repairs (32 01 17 63)**

Note: This section is used for placing up to 100 tons of asphalt after a small area of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc. Includes mobilization of paving equipment such as a roller, placing the asphalt, compaction and hauling up to 15 miles. Excludes saw cutting, demolition of existing pavement, and new subbase material. Use approximately 0.055 tons per square yard per inch of depth. See CSI section 02 41 19 13-0001 for saw cutting, 32 12 16 13-0000 for areas requiring more than 100 tons.

32 01 17 63-0018 EA Asphalt Placement For Small Repair Areas, Cold Mix Modified, Up To 3 Tons.....	2,443.42
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0019 TON Asphalt Placement For Small Repair Areas, Cold Mix Modified .....	346.80
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0020 EA Asphalt Placement For Small Repair Areas, Cold Mix, Up To 3 Tons .....	2,360.15
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0021 TON Asphalt Placement For Small Repair Areas, Cold Mix.....	319.04
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0022 EA Asphalt Placement For Small Repair Areas, Hot Mix Modified, Up To 3 Tons .....	2,318.51
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0023 TON Asphalt Placement For Small Repair Areas, Hot Mix Modified .....	305.16
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0024 EA Asphalt Placement For Small Repair Areas, Hot Mix, Up To 3 Tons .....	2,276.87
Note: For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	
32 01 17 63-0025 TON Asphalt Placement For Small Repair Areas, Hot Mix.....	291.28
Note: For each ton over 3 to 100 tons. For small areas of existing asphalt is removed to allow work such as trenching across or in a road, excavating a drainage structure, uncovering a utility line, etc.	

**32 Exterior Improvements****32 01 Operation and Maintenance of Exterior Improvements****32 01 17 Flexible Paving Repair**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 01 17 63-0026	Grind Asphalt <sup>(32 01 17 63)</sup>		
32 01 17 63-0027	SY Grinding Asphalt To Level Bump Or Raised Area.....		21.12

**32 01 26 Rigid Paving Rehabilitation<sup>(32 01)</sup>****32 01 26 71 Grooving of Concrete Paving<sup>(32 01 26)</sup>**

32 01 26 71-0001	Roadway Grooving <sup>(32 01 26 71)</sup>		
32 01 26 71-0002	EA First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....		4,110.62
32 01 26 71-0003	SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Longitudinal.....		3.81
32 01 26 71-0004	EA First 500 SY Of Pavement Grooving, Concrete, Traverse.....		4,579.37
32 01 26 71-0005	SY Each SY Over First 500 SY Of Pavement Grooving, Concrete, Traverse.....		4.95

**32 01 26 71-0006 Rumble Strips<sup>(32 01 26 71)</sup>**

32 01 26 71-0007	EA First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....		4,395.34
32 01 26 71-0008	LF Each LF Over First 5280 LF Of MIARDS, Rumble Strips, Asphalt.....		0.80
32 01 26 71-0009	EA First 2000 LF Of MIARDS, Rumble Strips, Concrete.....		4,898.20
32 01 26 71-0010	LF Each LF Over First 2000 LF Of MIARDS, Rumble Strips, Concrete.....		0.89

**32 01 26 73 Milling Of Concrete Paving<sup>(32 01 26)</sup>****32 01 26 73-0001 Removal Of Concrete<sup>(32 01 26 73)</sup>**  
Note: Includes direct loading into truck.**32 01 26 73-0002 Production Milling Of Roads And Parking Areas<sup>(32 01 26 73-0001)</sup>**

Note: For removal of entire lanes of roads or parking areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0039 for hauling.

32 01 26 73-0003	SY Production Milling Of Concrete Per Inch.....		7.12
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**32 01 26 73-0004 Limited Production Milling<sup>(32 01 26 73-0001)</sup>**

Note: For cross sections of roadways, trenching, partial shoulders, and other small or narrow areas. Includes work around man holes, scuppers, drainage structures, catch basins, etc. Includes sweeping and loading into truck. See CSI section 01 74 19 00-0039 for hauling.

32 01 26 73-0005	SY Limited Production Milling Of Concrete Per Inch.....		44.72
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**32 01 29 Rigid Paving Repair<sup>(32 01)</sup>****32 01 29 61 Partial Depth Patching of Rigid Paving<sup>(32 01 29)</sup>****32 01 29 61-0001 Hot Applied Flexible Concrete Repair<sup>(32 01 29 61)</sup>**

Note: Excludes saw cutting (where required), flagmen.

32 01 29 61-0002	EA Hot Applied Flexible Concrete Repair Minimum Charge.....		1,202.79
	Note: For projects where the total Hot Applied Flexible Concrete Repair In Asphaltcharge is less than the minimum charge, use task "Minimum Charge For Hot Applied Flexible Concrete Repair" exclusively. Task "Minimum Charge For Hot Applied Flexible Concrete Repair" should not be used in conjunction with any other tasks in this section.		
32 01 29 61-0003	SF Up To 2" Depth, Hot Applied Flexible Concrete Repair.....		68.46
	For >25 SF Quantity, Deduct		-6.85
32 01 29 61-0004	SF >2" To 4" Depth, Hot Applied Flexible Concrete Repair.....		128.90
	For >25 SF Quantity, Deduct		-12.89
32 01 29 61-0005	SF >4" To 6" Depth, Hot Applied Flexible Concrete Repair.....		188.80
	For >25 SF Quantity, Deduct		-18.88
32 01 29 61-0006	SF >6" To 8" Depth, Hot Applied Flexible Concrete Repair.....		248.70
	For >25 SF Quantity, Deduct		-24.87
32 01 29 61-0007	SF >8" To 10" Depth, Hot Applied Flexible Concrete Repair.....		308.60
	For >25 SF Quantity, Deduct		-30.86
32 01 29 61-0008	CF >10" Depth, Hot Applied Flexible Concrete Repair.....		367.97

**32 01 29 61-0009 Cold Applied Flexible Concrete Repair<sup>(32 01 29 61)</sup>**

32 01 29 61-0010	SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....		6.59
32 01 29 61-0011	SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....		9.54
32 01 29 61-0012	SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....		12.61
32 01 29 61-0013	SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....		15.77
32 01 29 61-0014	SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with water).....		22.54
32 01 29 61-0015	SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....		6.67
32 01 29 61-0016	SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....		9.63
32 01 29 61-0017	SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....		12.69
32 01 29 61-0018	SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....		15.86
32 01 29 61-0019	SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with SikaLatex R).....		22.63
32 01 29 61-0020	SF 1/8" To 1/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....		6.63
32 01 29 61-0021	SF 1/4" To 1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....		9.59
32 01 29 61-0022	SF 1/2" To 3/4" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....		12.65
32 01 29 61-0023	SF 3/4" To 1" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....		15.82
32 01 29 61-0024	SF 1" To 1-1/2" Thick, Portland Cement Concrete Patching (SikaRepair-223 mixed with diluted SikaLatex R).....		22.59





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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### 32 01 90 Operation and Maintenance of Planting (32 01)

Note: These tasks are to be used as requested by the owner to maintain existing conditions.

#### 32 01 90 13 Fertilizing (32 01 90)

32 01 90 13-0001	MSF Fertilizer - 2 LB Of Nitrogen/MSF (Granular) .....	14.61
32 01 90 13-0002	MSF Fertilizer - 2 LB Of Nitrogen/MSF (Liquid).....	10.59
32 01 90 13-0003	MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Granular) .....	11.59
32 01 90 13-0004	MSF Fertilizer - 0.5 LB Of Nitrogen/MSF (Liquid).....	9.49

#### 32 01 90 19 Mowing (32 01 90)

32 01 90 19-0001	ACR Vegetation Cutting By Bush Hog .....	204.10
Note: Includes normal debris removal, cutting, and trimming.		
For <1 Acre, Add		51.03
32 01 90 19-0002	MSF Mowing Vegetation With Riding Mower, >20,000 To 45,000 SF .....	7.11
32 01 90 19-0003	MSF Mowing Vegetation With Riding Mower, >45,000 SF .....	5.51
32 01 90 19-0004	MSF Clear Vegetation With Weed Trimmer, Up To 1,000 SF .....	24.20
For Work On Slopes >2:1, Add		6.05
For Clearing Light Brush, Add		3.63
32 01 90 19-0005	MSF Clear Vegetation With Weed Trimmer, >1,000 SF .....	20.33
For Work On Slopes >2:1, Add		5.08
For Clearing Light Brush, Add		3.05
32 01 90 19-0006	MSF Blow Or Vacuum Dispersed Non-Native Seed After Bulk Of Biomass Removed .....	20.97

#### 32 01 90 23 Pruning (32 01 90)

##### 32 01 90 23-0001

##### Tree Pruning (32 01 90 23)

Note: Types of pruning for mature trees (these standards are established by the ISA - International Society of Arboriculture). Includes loading onto truck or dumpster.

##### 32 01 90 23-0002

##### Tree Pruning; Crown Cleaning (32 01 90 23-0001)

Note: Crown cleaning or cleaning out is the removal of dead, dying, diseased, crowded, weakly attached, and low-vigor branches and waterspouts from a tree crown.

32 01 90 23-0003	EA 1-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	30.25
32 01 90 23-0004	EA 2" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	34.57
32 01 90 23-0005	EA 2-1/2" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	38.90
32 01 90 23-0006	EA 3" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	43.22
32 01 90 23-0007	EA 4" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	65.68
32 01 90 23-0008	EA 4" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	111.26
32 01 90 23-0009	EA 6" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	114.94
32 01 90 23-0010	EA 6" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	211.90
32 01 90 23-0011	EA 9" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	184.07
32 01 90 23-0012	EA 9" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	338.96
32 01 90 23-0013	EA 12" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	212.70
32 01 90 23-0014	EA 12" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	391.99
32 01 90 23-0015	EA 18" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	247.25
32 01 90 23-0016	EA 18" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	455.56
32 01 90 23-0017	EA 24" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	300.97
32 01 90 23-0018	EA 24" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	551.01
32 01 90 23-0019	EA 30" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	373.86
32 01 90 23-0020	EA 30" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	694.43
32 01 90 23-0021	EA 36" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	512.07
32 01 90 23-0022	EA 36" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	941.19
32 01 90 23-0023	EA 48" Caliper, Tree Pruning (Crown Cleaning), By Hand .....	812.38
32 01 90 23-0024	EA 48" Caliper, Tree Pruning (Crown Cleaning), Aerial Lift Equipment .....	1,513.58

##### 32 01 90 23-0025

##### Tree Pruning; Crown Thinning (32 01 90 23-0001)

Note: Crown thinning includes crown cleaning and the selective removal of branches to increase light penetration and air movement into the crown. Increased light and air stimulates and maintains interior foliage, which in turn improves branch taper and strength. Thinning reduces the wind-sail effect of the crown and the weight of the heavy limbs. Thinning the crown can emphasize the structural beauty of the trunk and branches as well as improve the growth of plants beneath the tree by increasing light penetration. When thinning the crown of mature trees, seldom should more than one-third of the live foliage be removed. At least one-half of the foliage should be on branches that arise in the lower two-thirds of the trees. Likewise, when thinning laterals from a limb, an effort should be made to retain inner lateral branches and leave the same distribution of foliage along the branch. Trees and branches so pruned will have stress more evenly distributed throughout the tree or along a branch.

32 01 90 23-0026	EA 1-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand .....	37.08
32 01 90 23-0027	EA 2" Caliper, Tree Pruning (Crown Thinning), By Hand .....	42.36
32 01 90 23-0028	EA 2-1/2" Caliper, Tree Pruning (Crown Thinning), By Hand .....	47.63
32 01 90 23-0029	EA 3" Caliper, Tree Pruning (Crown Thinning), By Hand .....	52.99
32 01 90 23-0030	EA 4" Caliper, Tree Pruning (Crown Thinning), By Hand .....	80.48
32 01 90 23-0031	EA 4" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	136.25
32 01 90 23-0032	EA 6" Caliper, Tree Pruning (Crown Thinning), By Hand .....	140.81
32 01 90 23-0033	EA 6" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	259.58
32 01 90 23-0034	EA 9" Caliper, Tree Pruning (Crown Thinning), By Hand .....	225.52
32 01 90 23-0035	EA 9" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	415.22
32 01 90 23-0036	EA 12" Caliper, Tree Pruning (Crown Thinning), By Hand .....	260.52
32 01 90 23-0037	EA 12" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment .....	480.17
32 01 90 23-0038	EA 18" Caliper, Tree Pruning (Crown Thinning), By Hand .....	302.88

**32 Exterior Improvements****32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 01 90 23-0039	EA	18" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	558.04	
32 01 90 23-0040	EA	24" Caliper, Tree Pruning (Crown Thinning), By Hand	368.66	
32 01 90 23-0041	EA	24" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	675.01	
32 01 90 23-0042	EA	30" Caliper, Tree Pruning (Crown Thinning), By Hand	457.95	
32 01 90 23-0043	EA	30" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	850.67	
32 01 90 23-0044	EA	36" Caliper, Tree Pruning (Crown Thinning), By Hand	627.28	
32 01 90 23-0045	EA	36" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,152.96	
32 01 90 23-0046	EA	48" Caliper, Tree Pruning (Crown Thinning), By Hand	995.16	
32 01 90 23-0047	EA	48" Caliper, Tree Pruning (Crown Thinning), Aerial Lift Equipment	1,854.13	

**32 01 90 23-0048 Tree Pruning; Crown Raising** (32 01 90 23-0001)

Note: Crown raising removes the lower branches of a tree in order to provide clearance for buildings, vehicles, pedestrians, and vistas. It is important that a tree have at least one-half of its foliage on branches that originate in the lower two-thirds of its trunk to ensure a well-formed, tapered structure and to uniformly distribute stress within a tree. When pruning for view, it is preferable to develop "windows" through the foliage of the tree, rather than to severely raise or reduce the crown.

32 01 90 23-0049	EA	1-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	40.89	
32 01 90 23-0050	EA	2" Caliper, Tree Pruning (Crown Raising), By Hand	46.67	
32 01 90 23-0051	EA	2-1/2" Caliper, Tree Pruning (Crown Raising), By Hand	52.56	
32 01 90 23-0052	EA	3" Caliper, Tree Pruning (Crown Raising), By Hand	58.35	
32 01 90 23-0053	EA	4" Caliper, Tree Pruning (Crown Raising), By Hand	88.68	
32 01 90 23-0054	EA	4" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	150.24	
32 01 90 23-0055	EA	6" Caliper, Tree Pruning (Crown Raising), By Hand	155.15	
32 01 90 23-0056	EA	6" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	286.06	
32 01 90 23-0057	EA	9" Caliper, Tree Pruning (Crown Raising), By Hand	248.51	
32 01 90 23-0058	EA	9" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	457.60	
32 01 90 23-0059	EA	12" Caliper, Tree Pruning (Crown Raising), By Hand	287.14	
32 01 90 23-0060	EA	12" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	529.22	
32 01 90 23-0061	EA	18" Caliper, Tree Pruning (Crown Raising), By Hand	333.82	
32 01 90 23-0062	EA	18" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	615.04	
32 01 90 23-0063	EA	24" Caliper, Tree Pruning (Crown Raising), By Hand	406.35	
32 01 90 23-0064	EA	24" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	743.88	
32 01 90 23-0065	EA	30" Caliper, Tree Pruning (Crown Raising), By Hand	504.70	
32 01 90 23-0066	EA	30" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	937.45	
32 01 90 23-0067	EA	36" Caliper, Tree Pruning (Crown Raising), By Hand	691.33	
32 01 90 23-0068	EA	36" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	1,270.55	
32 01 90 23-0069	EA	48" Caliper, Tree Pruning (Crown Raising), By Hand	1,096.72	
32 01 90 23-0070	EA	48" Caliper, Tree Pruning (Crown Raising), Aerial Lift Equipment	2,043.36	

**32 01 90 23-0071 Tree Pruning; Crown Reduction** (32 01 90 23-0001)

Note: Crown reduction is used to reduce the height and/or spread of a tree. Thinning cuts are most effective in maintaining the structural integrity and natural form of a tree and in delaying the time when it will need to be pruned again. The lateral to which a branch or trunk is cut should be at least one-half the diameter of the cut being made.

32 01 90 23-0072	EA	1-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	43.91	
32 01 90 23-0073	EA	2" Caliper, Tree Pruning (Crown Reduction), By Hand	50.13	
32 01 90 23-0074	EA	2-1/2" Caliper, Tree Pruning (Crown Reduction), By Hand	56.44	
32 01 90 23-0075	EA	3" Caliper, Tree Pruning (Crown Reduction), By Hand	62.67	
32 01 90 23-0076	EA	4" Caliper, Tree Pruning (Crown Reduction), By Hand	95.25	
32 01 90 23-0077	EA	4" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	161.36	
32 01 90 23-0078	EA	6" Caliper, Tree Pruning (Crown Reduction), By Hand	166.65	
32 01 90 23-0079	EA	6" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	307.26	
32 01 90 23-0080	EA	9" Caliper, Tree Pruning (Crown Reduction), By Hand	266.92	
32 01 90 23-0081	EA	9" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	491.51	
32 01 90 23-0082	EA	12" Caliper, Tree Pruning (Crown Reduction), By Hand	308.41	
32 01 90 23-0083	EA	12" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	568.42	
32 01 90 23-0084	EA	18" Caliper, Tree Pruning (Crown Reduction), By Hand	358.54	
32 01 90 23-0085	EA	18" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	660.60	
32 01 90 23-0086	EA	24" Caliper, Tree Pruning (Crown Reduction), By Hand	436.42	
32 01 90 23-0087	EA	24" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	798.97	
32 01 90 23-0088	EA	30" Caliper, Tree Pruning (Crown Reduction), By Hand	542.13	
32 01 90 23-0089	EA	30" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,006.95	
32 01 90 23-0090	EA	36" Caliper, Tree Pruning (Crown Reduction), By Hand	742.50	
32 01 90 23-0091	EA	36" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	1,364.75	
32 01 90 23-0092	EA	48" Caliper, Tree Pruning (Crown Reduction), By Hand	1,177.97	
32 01 90 23-0093	EA	48" Caliper, Tree Pruning (Crown Reduction), Aerial Lift Equipment	2,194.66	

**32 01 90 23-0094 Tree Pruning; Crown Restoration** (32 01 90 23-0001)

Note: Crown restoration can improve the structure and appearance of trees that have been topped or severely pruned using heading cuts. One to three sprouts on main branch stubs should be selected to reform a more natural appearing crown. Selected vigorous sprouts may need to be thinned to a lateral, or even headed, to control length growth in order to ensure adequate attachment for the size of the sprout. Restoration may require several prunings over a number of years.

32 01 90 23-0095	EA	1-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	50.40	
32 01 90 23-0096	EA	2" Caliper, Tree Pruning (Crown Restoration), By Hand	57.66	
32 01 90 23-0097	EA	2-1/2" Caliper, Tree Pruning (Crown Restoration), By Hand	64.82	
32 01 90 23-0098	EA	3" Caliper, Tree Pruning (Crown Restoration), By Hand	72.00	
32 01 90 23-0099	EA	4" Caliper, Tree Pruning (Crown Restoration), By Hand	109.43	
32 01 90 23-0100	EA	4" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment	185.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 23-0101 EA 6" Caliper, Tree Pruning (Crown Restoration), By Hand.....	191.54	
32 01 90 23-0102 EA 6" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	353.13	
32 01 90 23-0103 EA 9" Caliper, Tree Pruning (Crown Restoration), By Hand.....	306.77	
32 01 90 23-0104 EA 9" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	564.93	
32 01 90 23-0105 EA 12" Caliper, Tree Pruning (Crown Restoration), By Hand.....	354.48	
32 01 90 23-0106 EA 12" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	653.29	
32 01 90 23-0107 EA 18" Caliper, Tree Pruning (Crown Restoration), By Hand.....	412.04	
32 01 90 23-0108 EA 18" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	759.24	
32 01 90 23-0109 EA 24" Caliper, Tree Pruning (Crown Restoration), By Hand.....	501.60	
32 01 90 23-0110 EA 24" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	918.38	
32 01 90 23-0111 EA 30" Caliper, Tree Pruning (Crown Restoration), By Hand.....	623.12	
32 01 90 23-0112 EA 30" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	1,157.40	
32 01 90 23-0113 EA 36" Caliper, Tree Pruning (Crown Restoration), By Hand.....	853.49	
32 01 90 23-0114 EA 36" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	1,568.70	
32 01 90 23-0115 EA 48" Caliper, Tree Pruning (Crown Restoration), By Hand.....	1,353.95	
32 01 90 23-0116 EA 48" Caliper, Tree Pruning (Crown Restoration), Aerial Lift Equipment .....	2,522.68	
<b>32 01 90 23-0117 Palm Tree Pruning</b> <small>(32 01 90 23)</small>		
32 01 90 23-0118 EA Trim Mexican Palm Tree.....	91.64	
32 01 90 23-0119 EA Trim Date Palm Tree .....	206.79	
32 01 90 23-0120 LF Skin Palm Tree .....	23.50	
32 01 90 23-0121 EA Trim And Skin Palm Tree, Up To 30' Height.....	90.06	
32 01 90 23-0122 EA Trim And Skin Palm Tree, >30' To 60' Height.....	111.25	
32 01 90 23-0123 EA Trim And Skin Palm Tree, >60' To 80' Height.....	124.49	
<b>32 01 90 23-0124 Shrub Pruning</b> <small>(32 01 90 23)</small>		
32 01 90 23-0125 MSF Shrub Pruning, Prune, Shrub Bed .....	98.49	
32 01 90 23-0126 EA Shrub Pruning, Prune, Shrub Under 3' Height.....	3.46	
32 01 90 23-0127 EA Shrub Pruning, Prune, Shrub 4' Height.....	7.78	
32 01 90 23-0128 EA Shrub Pruning, Prune, Shrub Over 6' .....	13.83	
32 01 90 23-0129 EA Shrub Pruning, Prune Trees From Ground.....	34.57	
32 01 90 23-0130 EA Shrub Pruning, Prune Trees From Ground, High Work.....	86.44	
<b>32 01 90 23-0131 Root Pruning</b> <small>(32 01 90 23)</small>		
Note: Cut roots cleanly after excavation with clean, sharp tools, to promote callus formation and wound closure. Wounds to be dressed with a tree rooting hormone compound. Mix soil improvements (e.g., peat moss) with fill soil to promote new root growth. Backfill the excavation and water the soil around the roots to avoid leaving air pockets.		
32 01 90 23-0132 EA Root Pruning, One Side Of Up To 1-1/2" Caliper Tree .....	17.29	
32 01 90 23-0133 EA Root Pruning, One Side Of 2" Caliper Tree.....	21.60	
32 01 90 23-0134 EA Root Pruning, One Side Of 2-1/2" Caliper Tree .....	25.93	
32 01 90 23-0135 EA Root Pruning, One Side Of 3" Caliper Tree .....	34.57	
32 01 90 23-0136 EA Root Pruning, One Side Of 4" Caliper Tree .....	51.86	
32 01 90 23-0137 EA Root Pruning, One Side Of >4" To 6" Caliper Tree.....	64.82	
32 01 90 23-0138 EA Root Pruning, One Side Of >6" To 9" Caliper Tree.....	90.76	
32 01 90 23-0139 EA Root Pruning, One Side Of >9" To 12" Caliper Tree.....	103.73	
32 01 90 23-0140 EA Root Pruning, One Side Of >12" To 18" Caliper Tree.....	121.01	
32 01 90 23-0141 EA Root Pruning, One Side Of >18" To 24" Caliper Tree .....	151.26	
32 01 90 23-0142 EA Root Pruning, One Side Of >24" To 30" Caliper Tree.....	185.84	
32 01 90 23-0143 EA Root Pruning, One Side Of >30" To 36" Caliper Tree.....	216.09	
32 01 90 23-0144 EA Root Pruning, One Side Of >36" To 42" Caliper Tree.....	237.70	
32 01 90 23-0145 EA Root Pruning, One Side Of >42" To 48" Caliper Tree.....	259.31	
<b>32 01 90 26 Watering</b> <small>(32 01 90)</small>		
Note: Includes delivered water. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant.		
<b>32 01 90 26-0001 Watering Lawns, Plants And Trees</b> <small>(32 01 90 26)</small>		
Note: Includes delivered water and watering truck. Not to be used as basis if watering with irrigation system or on-site owner provided water from hose or hydrant. These tasks are to be used as requested by the owner for extended watering period for lawns, plants and trees.		
32 01 90 26-0002 MSF Watering Sod/Grass, Per Inch Of Water .....	48.38	
32 01 90 26-0003 CSF Watering Groundcover.....	7.46	
32 01 90 26-0004 CSF Watering Annuals And Perennials .....	13.21	
32 01 90 26-0005 EA Watering Trees, 1-1/2" To 5" Diameter By Hand .....	25.51	
32 01 90 26-0006 EA Watering Trees, 6" To 12" Diameter By Hand .....	33.52	
32 01 90 26-0007 EA Watering Trees, 13" To 18" Diameter By Hand .....	41.55	
32 01 90 26-0008 EA Watering Trees, >18" Diameter By Hand.....	51.14	
32 01 90 26-0009 EA Watering Shrub Or Bush By Hand.....	12.82	
<b>32 01 90 36 Weed and Brush Control</b> <small>(32 01 90)</small>		
32 01 90 36-0001 Herbicide, Push Or Hand Spreader Applied <small>(32 01 90 36)</small>		

**32 Exterior Improvements****32 01 Operation and Maintenance of Exterior Improvements****32 01 90 Operation and Maintenance of Planting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 01 90 36-0002 MSF Non-Selective Post Emergent Weed Herbicide (70.4 oz/acre or 1.62 oz/MSF).....	8.03	
For >45 To 90, Deduct	-0.44	
For >90 To 225, Deduct	-1.25	
For >225 To 870, Deduct	-2.05	
For >870, Deduct	-2.49	
32 01 90 36-0003 MSF Non-Selective Post Emergent Woody Brush And Tree Herbicide (128 oz/acre or 2.94 oz/MSF).....	8.68	
For >45 To 90, Deduct	-0.51	
For >90 To 225, Deduct	-1.38	
For >225 To 870, Deduct	-2.24	
For >870, Deduct	-2.75	
32 01 90 36-0004 MSF Selective Weed Herbicide (56 oz/Acre or 1.28 oz/MSF).....	8.64	
Note: Includes pre and post emergent.		
For >45 To 90, Deduct	-0.50	
For >90 To 225, Deduct	-1.37	
For >225 To 870, Deduct	-2.23	
For >870, Deduct	-2.73	
32 01 90 36-0005 MSF Selective Woody Brush And Tree Herbicide (72 oz/acre or 1.65 oz/MSF).....	9.05	
Note: Includes pre and post emergents.		
For >45 To 90, Deduct	-0.54	
For >90 To 225, Deduct	-1.45	
For >225 To 870, Deduct	-2.35	
For >870, Deduct	-2.90	
<b>32 01 90 39 Pesticides (32 01 90)</b>		
32 01 90 39-0001 MSF Pesticide - Surface Eating.....	11.04	
32 01 90 39-0002 MSF Pesticide - Subsurface Eating.....	11.08	
32 01 90 39-0003 MSF Pesticide - Fungicide Application.....	12.01	
<b>32 01 90 43 Weed and Cultivate Beds (32 01 90)</b>		
32 01 90 43-0001 MSF Weed Mulched Bed.....	42.18	
32 01 90 43-0002 MSF Weed Unmulched Bed.....	120.51	
32 01 90 43-0003 MSF Cultivate Bed.....	64.89	
<b>32 01 90 46 Hedge Trimming (32 01 90)</b>		
32 01 90 46-0001 LF Trim 0-5' High Hedge, 0-3' Wide.....	5.58	
32 01 90 46-0002 LF Trim 0-5' High Hedge, 4-6' Wide.....	8.37	
32 01 90 46-0003 LF Trim 5-10' High Hedge, 0-3' Wide.....	12.68	
32 01 90 46-0004 LF Trim 5-10' High Hedge, 4-6' Wide.....	12.91	
<b>32 01 90 53 Plant Growth Regulator Application (32 01 90)</b>		
32 01 90 53-0001 EA Plant Growth Regulator Application.....	6.30	
<b>32 10 Bases, Ballasts, and Paving (32)</b>		
<b>32 11 Base Courses (32 10)</b>		
<b>32 11 16 Subbase Courses (32 11)</b>		
<b>32 11 16 16 Aggregate Subbase Courses (32 11 16)</b>		
32 11 16 16-0001 Base And Subbase Courses For Roadways And Parking Areas (32 11 16 16)		
Note: Includes 3/4" To 1-1/2" aggregate material, hauling up to 15 miles, dumping, spreading, grading, compacting and watering. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.		
32 11 16 16-0002 Base And Subbase Courses By The CY (32 11 16 16-0001)		
32 11 16 16-0003 CY Class II Graded Crushed Aggregate Roadway Base Course.....	108.88	
32 11 16 16-0004 CY Class III Graded Crushed Aggregate Roadway Base Course.....	104.37	
<b>32 11 23 Aggregate Base Courses (32 11)</b>		
<b>32 11 23 16 Aggregate Base Courses (32 11 23)</b>		
32 11 23 16-0001 Base Courses For Sidewalk (Asphalt Or Concrete) (32 11 23 16)		
Note: Includes material, hauling up to 15 miles, placement, spreading, grading, and compaction. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.		
32 11 23 16-0002 SF 2" Crushed Aggregate Base Course For Sidewalks.....	0.74	
For Up To 1,000, Add	0.20	
For >1,000 To 2,500, Add	0.07	
32 11 23 16-0003 SF 3" Crushed Aggregate Base Course For Sidewalks.....	1.04	
For Up To 1,000, Add	0.29	
For >1,000 To 2,500, Add	0.10	
32 11 23 16-0004 SF 4" Crushed Aggregate Base Course For Sidewalks.....	1.35	
For Up To 1,000, Add	0.37	
For >1,000 To 2,500, Add	0.14	
32 11 23 16-0005 SF 5" Crushed Aggregate Base Course For Sidewalks.....	1.76	
For Up To 1,000, Add	0.49	
For >1,000 To 2,500, Add	0.18	



		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, and Paving</b>	<b>32 10</b>
		<b>Base Courses</b>	<b>32 11</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 11 23 16-0006 SF 6" Crushed Aggregate Base Course For Sidewalks .....	2.17	
For Up To 1,000, Add	0.60	
For >1,000 To 2,500, Add	0.22	
32 11 23 16-0007 SF 7" Crushed Aggregate Base Course For Sidewalks .....	2.49	
For Up To 1,000, Add	0.69	
For >1,000 To 2,500, Add	0.25	
32 11 23 16-0008 SF 8" Crushed Aggregate Base Course For Sidewalks .....	2.82	
For Up To 1,000, Add	0.78	
For >1,000 To 2,500, Add	0.28	
<b>32 11 26 Asphaltic Base Courses (32 11)</b>		
<b>32 11 26 19 Bituminous-Stabilized Base Courses (32 11 26)</b>		
32 11 26 19-0001 Bituminous-Stabilized Base Courses (32 11 26 19) .....		
32 11 26 19-0002 CY Bituminous Stabilized Base Course .....	117.02	
Note: 3/4" ASTM C33.		
<b>32 12 Flexible Paving (32 10)</b>		
<b>32 12 13 Preparatory Coats (32 12)</b>		
<b>32 12 13 13 Tack Coats (32 12 13)</b>		
32 12 13 13-0001 SY Tack Coat, 0.04 Gallon/SY .....	0.64	
For Up To 150, Add	0.12	
For >150 To 300, Add	0.06	
For >300 To 500, Add	0.03	
For >3,500 To 5,000, Deduct	-0.02	
For >5,000, Deduct	-0.04	
32 12 13 13-0002 SY Tack Coat, 0.05 Gallon/SY .....	0.71	
For Up To 150, Add	0.14	
For >150 To 300, Add	0.07	
For >300 To 500, Add	0.04	
For >3,500 To 5,000, Deduct	-0.02	
For >5,000, Deduct	-0.04	
32 12 13 13-0003 SY Tack Coat, 0.07 Gallon/SY .....	0.84	
For Up To 150, Add	0.17	
For >150 To 300, Add	0.08	
For >300 To 500, Add	0.04	
For >3,500 To 5,000, Deduct	-0.02	
For >5,000, Deduct	-0.05	
32 12 13 13-0004 SY Tack Coat, 0.08 Gallon/SY .....	0.91	
For Up To 150, Add	0.19	
For >150 To 300, Add	0.09	
For >300 To 500, Add	0.05	
For >3,500 To 5,000, Deduct	-0.02	
For >5,000, Deduct	-0.06	
32 12 13 13-0005 SY Tack Coat, 0.10 Gallon/SY .....	1.05	
For Up To 150, Add	0.23	
For >150 To 300, Add	0.11	
For >300 To 500, Add	0.05	
For >3,500 To 5,000, Deduct	-0.03	
For >5,000, Deduct	-0.07	
32 12 13 13-0006 SY Tack Coat, 0.11 Gallon/SY .....	1.11	
For Up To 150, Add	0.24	
For >150 To 300, Add	0.11	
For >300 To 500, Add	0.06	
For >3,500 To 5,000, Deduct	-0.03	
For >5,000, Deduct	-0.07	
<b>32 12 13 19 Prime Coats (32 12 13)</b>		
32 12 13 19-0001 SY Surface Prime Coat, 0.26 Gallon/SY .....	1.87	
For Up To 150, Add	0.42	
For >150 To 300, Add	0.19	
For >300 To 500, Add	0.09	
For >3,500 To 5,000, Deduct	-0.05	
For >5,000, Deduct	-0.13	
32 12 13 19-0002 SY Surface Prime Coat, 0.28 Gallon/SY .....	1.98	
For Up To 150, Add	0.45	
For >150 To 300, Add	0.20	
For >300 To 500, Add	0.10	
For >3,500 To 5,000, Deduct	-0.05	
For >5,000, Deduct	-0.14	
32 12 13 19-0003 SY Surface Prime Coat, 0.30 Gallon/SY .....	2.08	
For Up To 150, Add	0.48	
For >150 To 300, Add	0.21	
For >300 To 500, Add	0.10	
For >3,500 To 5,000, Deduct	-0.05	
For >5,000, Deduct	-0.14	
<b>32 12 16 Asphalt Paving (32 12)</b>		

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST
**32 12 16 13 Plant-Mix Asphalt Paving** (32 12 16)

Note: Includes delivery up to 15 miles, placement, rolling, finishing and sweeping. Excludes base, tack or prime coat, seal coats and roadway fabrics (where required). See CSI section 01 74 19 00-0039 for hauling greater than 15 miles, 32 11 00 00-0000 for base courses, 32 12 13 13-0000 for tack coats, 32 12 13 19-0000 for prime coats, 32 12 16 39-0000 for roadway fabrics, 32 12 36 00-0000 for seal coats.

**32 12 16 13-0001 Intermediate Binder Courses, Hot Mix Asphalt (HMA)** (32 12 16 13)

Note: Meets Caltrans requirements.

32 12 16 13-0002	TON Bituminous Hot Mix Intermediate Binder Course 3,954 LB/CY .....	159.91
	Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section.	
	<i>For PG64-10 Asphalt, Add</i>	19.13
	<i>For Up To 25, Add</i>	21.82
	<i>For &gt;25 To 50, Add</i>	12.04
	<i>For &gt;500 To 1,000, Deduct</i>	-6.83
	<i>For &gt;1,000 To 2,500, Deduct</i>	-12.38
	<i>For &gt;2,500 To 5,000, Deduct</i>	-19.21
	<i>For &gt;5,000, Deduct</i>	-27.54
	<i>For Warm Mix Additive, Add</i>	8.29
32 12 16 13-0003	SY 1" Thick Bituminous Hot Mix Intermediate Binder Course .....	9.05
	Note: Includes placement, rolling, finishing and sweeping.	
	<i>For PG64-10 Asphalt, Add</i>	1.05
	<i>For Up To 1,000, Add</i>	1.27
	<i>For &gt;1,000 To 2,000, Add</i>	0.71
	<i>For &gt;10,000 To 20,000, Deduct</i>	-0.39
	<i>For &gt;20,000 To 50,000, Deduct</i>	-0.71
	<i>For &gt;50,000 To 100,000, Deduct</i>	-1.10
	<i>For &gt;100,000, Deduct</i>	-1.58
32 12 16 13-0004	SY 1-1/2" Thick Bituminous Hot Mix Intermediate Binder Course .....	13.44
	Note: Includes placement, rolling, finishing and sweeping.	
	<i>For PG64-10 Asphalt, Add</i>	1.58
	<i>For Up To 700, Add</i>	1.87
	<i>For &gt;700 To 1,400, Add</i>	1.04
	<i>For &gt;7,000 To 14,000, Deduct</i>	-0.58
	<i>For &gt;14,000 To 32,000, Deduct</i>	-1.06
	<i>For &gt;32,000 To 64,000, Deduct</i>	-1.65
	<i>For &gt;64,000, Deduct</i>	-2.36
32 12 16 13-0005	SY 2" Thick Bituminous Hot Mix Intermediate Binder Course .....	17.39
	Note: Includes placement, rolling, finishing and sweeping.	
	<i>For PG64-10 Asphalt, Add</i>	2.10
	<i>For Up To 500, Add</i>	2.35
	<i>For &gt;500 To 1,000, Add</i>	1.29
	<i>For &gt;5,000 To 10,000, Deduct</i>	-0.77
	<i>For &gt;10,000 To 24,000, Deduct</i>	-1.40
	<i>For &gt;24,000 To 48,000, Deduct</i>	-2.16
	<i>For &gt;48,000, Deduct</i>	-3.11
32 12 16 13-0006	SY 2-1/2" Thick Bituminous Hot Mix Intermediate Binder Course .....	21.95
	Note: Includes placement, rolling, finishing and sweeping.	
	<i>For PG64-10 Asphalt, Add</i>	2.63
	<i>For Up To 400, Add</i>	3.00
	<i>For &gt;400 To 800, Add</i>	1.65
	<i>For &gt;4,000 To 8,000, Deduct</i>	-0.96
	<i>For &gt;8,000 To 20,000, Deduct</i>	-1.75
	<i>For &gt;20,000 To 40,000, Deduct</i>	-2.72
	<i>For &gt;40,000, Deduct</i>	-3.90
32 12 16 13-0007	SY 3" Thick Bituminous Hot Mix Intermediate Binder Course .....	26.34
	Note: Includes placement, rolling, finishing and sweeping.	
	<i>For PG64-10 Asphalt, Add</i>	3.15
	<i>For Up To 340, Add</i>	3.60
	<i>For &gt;340 To 680, Add</i>	3.03
	<i>For &gt;3,400 To 6,800, Deduct</i>	-1.16
	<i>For &gt;6,800 To 17,000, Deduct</i>	-2.10
	<i>For &gt;17,000 To 34,000, Deduct</i>	-3.26
	<i>For &gt;34,000, Deduct</i>	-4.68
32 12 16 13-0008	SY 3-1/2" Thick Bituminous Hot Mix Intermediate Binder Course .....	30.74
	Note: Includes placement, rolling, finishing and sweeping.	
	<i>For PG64-10 Asphalt, Add</i>	3.68
	<i>For Up To 280, Add</i>	4.20
	<i>For &gt;280 To 560, Add</i>	2.32
	<i>For &gt;2,800 To 5,600, Deduct</i>	-1.35
	<i>For &gt;5,600 To 14,000, Deduct</i>	-2.46
	<i>For &gt;14,000 To 28,000, Deduct</i>	-3.81
	<i>For &gt;28,000, Deduct</i>	-5.46
32 12 16 13-0009	SY 4" Thick Bituminous Hot Mix Intermediate Binder Course .....	35.13
	Note: Includes placement, rolling, finishing and sweeping.	
	<i>For PG64-10 Asphalt, Add</i>	4.20
	<i>For Up To 250, Add</i>	4.79
	<i>For &gt;250 To 500, Add</i>	2.65
	<i>For &gt;2,500 To 5,000, Deduct</i>	-1.54
	<i>For &gt;5,000 To 12,000, Deduct</i>	-2.81
	<i>For &gt;12,000 To 24,000, Deduct</i>	-4.35
	<i>For &gt;24,000, Deduct</i>	-6.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0010 SY 5" Thick Bituminous Hot Mix Intermediate Binder Course ..... 43.90 Note: Includes placement, rolling, finishing and sweeping. <i>For PG64-10 Asphalt, Add</i> 5.25 <i>For Up To 200, Add</i> 5.99 <i>For &gt;200 To 400, Add</i> 3.31 <i>For &gt;2,000 To 4,000, Deduct</i> -1.93 <i>For &gt;4,000 To 10,000, Deduct</i> -3.51 <i>For &gt;10,000 To 20,000, Deduct</i> -5.43 <i>For &gt;20,000, Deduct</i> -7.80		
32 12 16 13-0011 SY 6" Thick Bituminous Hot Mix Intermediate Binder Course ..... 52.68 Note: Includes placement, rolling, finishing and sweeping. <i>For PG64-10 Asphalt, Add</i> 6.30 <i>For Up To 160, Add</i> 7.19 <i>For &gt;160 To 320, Add</i> 3.97 <i>For &gt;1,600 To 3,200, Deduct</i> -2.31 <i>For &gt;3,200 To 8,000, Deduct</i> -4.21 <i>For &gt;8,000 To 16,000, Deduct</i> -6.52 <i>For &gt;16,000, Deduct</i> -9.36		
<b>32 12 16 13-0012 Surface Wearing Courses, Hot Mix Asphalt (HMA) <small>(32 12 16 13)</small></b>		
Note: Meets Caltrans requirements.		
32 12 16 13-0013 TON Bituminous Hot Mix Surface Course 3954 LB/CY ..... 162.18 Note: Includes Type A and Type B with 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. Used for applications not described elsewhere in this section. <i>For PG64-10 Asphalt, Add</i> 3.04 <i>For Up To 25, Add</i> 23.51 <i>For &gt;25 To 50, Add</i> 13.17 <i>For &gt;500 To 1,000, Deduct</i> -6.65 <i>For &gt;1,000 To 2,500, Deduct</i> -12.08 <i>For &gt;2,500 To 5,000, Deduct</i> -18.73 <i>For &gt;5,000, Deduct</i> -26.88 <i>For Warm Mix Additive, Add</i> 7.91		
32 12 16 13-0014 TON Tire Rubber Modified Paving Asphalt (TRMAC) Surface Course (MAC-15TR) ..... 179.88 Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. <i>For Up To 25, Add</i> 26.49 <i>For &gt;25 To 50, Add</i> 14.90 <i>For &gt;500 To 1,000, Deduct</i> -7.29 <i>For Warm Mix Additive, Add</i> 8.62		
32 12 16 13-0015 TON Asphalt Rubberized Hot Mix (ARHM) Surface Course ..... 192.05 Note: Includes 1/2" to 3/4" course or medium aggregate, placement, rolling, finishing and sweeping. <i>For Up To 25, Add</i> 27.71 <i>For &gt;25 To 50, Add</i> 15.51 <i>For &gt;500 To 1,000, Deduct</i> -7.90 <i>For &gt;1,000 To 2,500, Deduct</i> -14.35 <i>For &gt;2,500 To 5,000, Deduct</i> -22.25 <i>For &gt;5,000, Deduct</i> -31.93 <i>For Warm Mix Additive, Add</i> 9.41		
32 12 16 13-0016 SY 1" Thick Bituminous Hot Mix Surface Wearing Course ..... 8.82 Note: Includes placement, rolling, finishing and sweeping. <i>For PG64-10 Asphalt, Add</i> 0.16 <i>For Up To 1,000, Add</i> 1.32 <i>For &gt;1,000 To 2,000, Add</i> 0.75 <i>For &gt;10,000 To 20,000, Deduct</i> -0.37 <i>For &gt;20,000 To 50,000, Deduct</i> -0.67 <i>For &gt;50,000 To 100,000, Deduct</i> -1.04 <i>For &gt;100,000, Deduct</i> -1.50		
32 12 16 13-0017 SY 1-1/2" Thick Bituminous Hot Mix Surface Wearing Course ..... 13.07 Note: Includes placement, rolling, finishing and sweeping. <i>For PG64-10 Asphalt, Add</i> 0.24 <i>For Up To 700, Add</i> 1.94 <i>For &gt;700 To 1,400, Add</i> 1.09 <i>For &gt;7,000 To 14,000, Deduct</i> -0.55 <i>For &gt;14,000 To 32,000, Deduct</i> -1.00 <i>For &gt;32,000 To 64,000, Deduct</i> -1.55 <i>For &gt;64,000, Deduct</i> -2.23		
32 12 16 13-0018 SY 2" Thick Bituminous Hot Mix Surface Wearing Course ..... 16.80 Note: Includes placement, rolling, finishing and sweeping. <i>For PG64-10 Asphalt, Add</i> 0.32 <i>For Up To 500, Add</i> 2.41 <i>For &gt;500 To 1,000, Add</i> 1.35 <i>For &gt;5,000 To 10,000, Deduct</i> -0.72 <i>For &gt;10,000 To 24,000, Deduct</i> -1.31 <i>For &gt;24,000 To 48,000, Deduct</i> -2.03 <i>For &gt;48,000, Deduct</i> -2.92		
32 12 16 13-0019 SY 2-1/2" Thick Bituminous Hot Mix Surface Wearing Course ..... 21.26 Note: Includes placement, rolling, finishing and sweeping. <i>For PG64-10 Asphalt, Add</i> 0.40 <i>For Up To 400, Add</i> 3.08 <i>For &gt;400 To 800, Add</i> 1.73 <i>For &gt;4,000 To 8,000, Deduct</i> -0.90 <i>For &gt;8,000 To 20,000, Deduct</i> -1.65 <i>For &gt;20,000 To 40,000, Deduct</i> -2.55 <i>For &gt;40,000, Deduct</i> -3.67		

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 13-0020	SY		3" Thick Bituminous Hot Mix Surface Wearing Course.....	25.51	
			Note: Includes placement, rolling, finishing and sweeping.		
			For PG64-10 Asphalt, Add	0.48	
			For Up To 340, Add	3.70	
			For >340 To 680, Add	3.03	
			For >3,400 To 6,800, Deduct	-1.08	
			For >6,800 To 17,000, Deduct	-1.98	
			For >17,000 To 34,000, Deduct	-3.06	
			For >34,000, Deduct	-4.40	
32 12 16 13-0021	CSF		Type F Asphalt Surface Cap 1/8" To 1/4" Thick For Use Only On Top Concrete Filled Trench.....	94.90	
<b>32 12 16 13-0022</b>			<b>Hand Placed, Hot Mix Asphalt (HMA)</b> (32 12 16 13)		
32 12 16 13-0023	TON		Hand Placed Hot Mixed Asphalt 3,954 LB/CY.....	390.93	
			Note: For small areas not reachable by machine. Includes placement, rolling, finishing and sweeping.		
<b>32 12 16 13-0024</b>			<b>AC Dikes</b> (32 12 16 13)		
			See CSI section 32 11 23 16-0001 for base course.		
32 12 16 13-0025	LF		Type A, Asphalt Concrete Dike.....	13.86	5.41
			For Up To 100, Add	6.17	
			For >100 To 500, Add	1.77	
			For >1,000 To 5,000, Deduct	-1.08	
			For >5,000, Deduct	-1.77	
32 12 16 13-0026	LF		Type C, Asphalt Concrete Dike.....	11.67	5.41
			For Up To 100, Add	5.62	
			For >100 To 500, Add	1.66	
			For >1,000 To 5,000, Deduct	-1.08	
			For >5,000, Deduct	-1.66	
32 12 16 13-0027	LF		Type D, Asphalt Concrete Dike.....	17.45	5.41
			For Up To 100, Add	7.07	
			For >100 To 500, Add	1.95	
			For >1,000 To 5,000, Deduct	-1.08	
			For >5,000, Deduct	-1.95	
32 12 16 13-0028	LF		Type E, Asphalt Concrete Dike.....	13.78	5.41
			For Up To 100, Add	6.15	
			For >100 To 500, Add	1.77	
			For >1,000 To 5,000, Deduct	-1.08	
			For >5,000, Deduct	-1.77	
32 12 16 13-0029	LF		Type F, Asphalt Concrete Dike.....	12.31	5.41
			For Up To 100, Add	5.78	
			For >100 To 500, Add	1.70	
			For >1,000 To 5,000, Deduct	-1.08	
			For >5,000, Deduct	-1.70	
<b>32 12 16 13-0030</b>			<b>Ditch Lining</b> (32 12 16 13)		
32 12 16 13-0031	SY		4" Concrete Ditch Pavement.....	70.19	
32 12 16 13-0032	SY		4" Asphalt Ditch Pavement.....	53.83	
32 12 16 13-0033	SY		4" Soil-Cement Ditch Pavement.....	8.92	
32 12 16 13-0034	SY		4" Rip-Rap Ditch Pavement.....	11.29	
<b>32 12 16 19</b>			<b>Cold-Mix Asphalt Paving</b> (32 12 16)		
			Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
<b>32 12 16 19-0001</b>			<b>Cold Mix Asphalt (CMA) Pavement</b> (32 12 16 19)		
			Note: 0.5 Gal asphalt/SY per inch depth; well graded granular aggregate.		
32 12 16 19-0002	SY		Cold Laid Asphalt Pavement, Traveling Plant Mixed In Windrows, Compacted 4" Course.....	14.27	
32 12 16 19-0003	SY		Cold Laid Asphalt Pavement, Rotary Plant Mixed In Place, Compacted 4" Course.....	13.88	
32 12 16 19-0004	SY		Cold Laid Asphalt Pavement, Central Stationary Plant, Mixed, Compacted 4" Course.....	22.49	
<b>32 12 16 39</b>			<b>Paving Fabrics</b> (32 12 16)		
			See CSI section 31 32 19 16-0000 for geotextile fabric.		
<b>32 12 16 39-0001</b>			<b>Geotextile Paving Fabrics</b> (32 12 16 39)		
32 12 16 39-0002	SY		3.6 Ounce/SY, 90 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-38A/O).....	1.94	
			For Up To 50, Add	0.43	
			For >50 To 150, Add	0.32	
			For >150 To 250, Add	0.21	
			For >250 To 500, Add	0.10	
32 12 16 39-0003	SY		4.1 Ounce/SY, 101 LB Grab Tensile Nonwoven Polypropylene Geotextile Paving Fabric (Carthage Mills FX-42 A/O).....	2.09	
			For Up To 50, Add	0.46	
			For >50 To 150, Add	0.34	
			For >150 To 250, Add	0.22	
			For >250 To 500, Add	0.11	
<b>32 12 16 43</b>			<b>Waterproofing Membranes</b> (32 12 16)		
<b>32 12 16 43-0001</b>			<b>Waterproofing Membranes</b> (32 12 16 43)		
32 12 16 43-0002	SY		Up To 500 SY, Preformed Rubberized Asphalt Membrane.....	38.29	
32 12 16 43-0003	SY		>500 To 1,000 SY, Preformed Rubberized Asphalt Membrane.....	28.69	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 16 43-0004 SY >1,000 SY, Preformed Rubberized Asphalt Membrane.....	17.81	
<b>32 12 33 Flexible Paving Surface Treatments (32 12)</b>		
<b>32 12 33 00-0001 Bituminous Surface Treatment For Roadways (32 12 33)</b>		
Note: 0.25 Gal bitumen per SY and 30 lb of gravel/SY.		
32 12 33 00-0002 SY Single Course Bituminous Treatment, Prepare And Clean Surface Roadway.....	3.42	
32 12 33 00-0003 SY Double Course Bituminous Treatment, Prepare And Clean Surface Roadway.....	6.16	
<b>32 12 33 00-0004 Bituminous Surface Treatment For Trails (32 12 33)</b>		
Note: 0.25 Gal bitumen per SY and 20 lb of gravel/SY.		
32 12 33 00-0005 SY Bituminous Surface Treatment, For Trails .....	2.33	
<b>32 12 36 Seal Coats (32 12)</b>		
See CSI section 32 01 13 62-0000 for slurry seal.		
<b>32 12 36 13 Asphaltic Seal and Fog Coats (32 12 36)</b>		
<b>32 12 36 13-0001 Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13)</b>		
Note: Includes initial sweeping prior to placement, cleaning of area, rolling and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping.		
<b>32 12 36 13-0002 Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)</b>		
Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0003 SY Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.72	
For Each Additional 0.5% Latex Additive, Add	0.54	
32 12 36 13-0004 SY >200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.23	
For Each Additional 0.5% Latex Additive, Add	0.54	
32 12 36 13-0005 SY >500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.01	
For Each Additional 0.5% Latex Additive, Add	0.54	
32 12 36 13-0006 SY >1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.77	
For Each Additional 0.5% Latex Additive, Add	0.54	
32 12 36 13-0007 SY >5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.63	
For Each Additional 0.5% Latex Additive, Add	0.54	
32 12 36 13-0008 SY >10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.52	
For Each Additional 0.5% Latex Additive, Add	0.54	
32 12 36 13-0009 SY >20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.39	
For Each Additional 0.5% Latex Additive, Add	0.54	
32 12 36 13-0010 SY >50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.32	
For Each Additional 0.5% Latex Additive, Add	0.54	
<b>32 12 36 13-0011 Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)</b>		
Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0012 SY Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.68	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0013 SY >200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.13	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0014 SY >500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.86	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0015 SY >1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.72	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0016 SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.39	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0017 SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.20	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0018 SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.04	
For Each Additional 0.5% Latex Additive, Add	0.67	
32 12 36 13-0019 SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	4.96	
For Each Additional 0.5% Latex Additive, Add	0.67	
<b>32 12 36 13-0020 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal) (32 12 36 13-0001)</b>		
Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0021 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	7.44	
For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0022 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.82	
For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0023 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.50	
For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0024 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	6.14	
For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0025 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.94	
For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0026 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.66	
For Each Additional 0.5% Latex Additive, Add	0.80	
32 12 36 13-0027 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal).....	5.48	
For Each Additional 0.5% Latex Additive, Add	0.80	

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0028	SY		>50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	5.38 0.80	
<b>32 12 36 13-0029</b>			<b>Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)</b> <small>(32 12 36 13-0001)</small> Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.		
32 12 36 13-0030	SY		Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	7.53 0.92	
32 12 36 13-0031	SY		>200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	6.91 0.92	
32 12 36 13-0032	SY		>500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	6.59 0.92	
32 12 36 13-0033	SY		>1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	6.23 0.92	
32 12 36 13-0034	SY		>5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	6.03 0.92	
32 12 36 13-0035	SY		>10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	5.85 0.92	
32 12 36 13-0036	SY		>20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	5.58 0.92	
32 12 36 13-0037	SY		>50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	5.49 0.92	
<b>32 12 36 13-0038</b>			<b>Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)</b> <small>(32 12 36 13-0001)</small> Note: First coat 23 to 30 Pounds Per SY of 1/2" No. 4 with 0.20 to 0.35 gallons asphalt emulsion per SY, Second coat 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.20 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0039	SY		Up To 200 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	11.49 1.34	
32 12 36 13-0040	SY		>200 To 500 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	10.66 1.34	
32 12 36 13-0041	SY		>500 To 1,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	10.19 1.34	
32 12 36 13-0042	SY		>1,000 To 5,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	9.66 1.34	
32 12 36 13-0043	SY		>5,000 To 10,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	9.36 1.34	
32 12 36 13-0044	SY		>10,000 To 20,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	9.02 1.34	
32 12 36 13-0045	SY		>20,000 To 50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	8.74 1.34	
32 12 36 13-0046	SY		>50,000 SY, Double Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Chip Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	8.61 1.34	
<b>32 12 36 13-0047</b>			<b>Asphalt Emulsion Seal Coat (Scrub Seal)</b> <small>(32 12 36 13)</small> Note: Includes initial sweeping prior to placement, cleaning of area, towed broom sled of scrub brush and final sweeping. Excludes crack repair, fog sealer, and any additional consecutive days sweeping following final sweeping. See CSI section 32 12 36 13-0084 for fog seal.		
<b>32 12 36 13-0048</b>			<b>Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)</b> <small>(32 12 36 13-0047)</small> Note: 12 to 20 Pounds Per SY of 1/4" No. 10 with 0.15 to 0.30 gallons asphalt emulsion per SY.		
32 12 36 13-0049	SY		Up To 200 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	5.28 0.54	
32 12 36 13-0050	SY		>200 To 500 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	4.99 0.54	
32 12 36 13-0051	SY		>500 To 1,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	4.79 0.54	
32 12 36 13-0052	SY		>1,000 To 5,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	4.56 0.54	
32 12 36 13-0053	SY		>5,000 To 10,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	4.45 0.54	
32 12 36 13-0054	SY		>10,000 To 20,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	4.35 0.54	
32 12 36 13-0055	SY		>20,000 To 50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	4.24 0.54	
32 12 36 13-0056	SY		>50,000 SY, Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	4.19 0.54	
<b>32 12 36 13-0057</b>			<b>Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)</b> <small>(32 12 36 13-0047)</small> Note: 16 to 25 Pounds Per SY of 5/16" No. 8 with 0.25 to 0.35 gallons asphalt emulsion per SY.		
32 12 36 13-0058	SY		Up To 200 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	6.27 0.67	
32 12 36 13-0059	SY		>200 To 500 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	5.92 0.67	
32 12 36 13-0060	SY		>500 To 1,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	5.69 0.67	
32 12 36 13-0061	SY		>1,000 To 5,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)..... <i>For Each Additional 0.5% Latex Additive, Add</i>	5.55 0.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 13-0062 SY >5,000 To 10,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.23	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0063 SY >10,000 To 20,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.03	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0064 SY >20,000 To 50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.89	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
32 12 36 13-0065 SY >50,000 SY, Medium Fine Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	4.84	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.67	
<b>32 12 36 13-0066 Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)</b> <small>(32 12 36 13-0047)</small>		
<small>Note: 20 to 30 Pounds Per SY of 3/8" No. 6 with 0.25 to 0.40 gallons asphalt emulsion per SY.</small>		
32 12 36 13-0067 SY Up To 200 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	7.08	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.80	
32 12 36 13-0068 SY >200 To 500 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.64	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.80	
32 12 36 13-0069 SY >500 To 1,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.33	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.80	
32 12 36 13-0070 SY >1,000 To 5,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.97	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.80	
32 12 36 13-0071 SY >5,000 To 10,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.78	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.80	
32 12 36 13-0072 SY >10,000 To 20,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.51	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.80	
32 12 36 13-0073 SY >20,000 To 50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.33	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.80	
32 12 36 13-0074 SY >50,000 SY, Medium Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.26	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.80	
<b>32 12 36 13-0075 Course Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal)</b> <small>(32 12 36 13-0047)</small>		
<small>Note: 23 to 35 Pounds Per SY of 1/2" No. 4 with 0.30 to 0.40 gallons asphalt emulsion per SY.</small>		
32 12 36 13-0076 SY Up To 200 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	7.17	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.92	
32 12 36 13-0077 SY >200 To 500 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.74	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.92	
32 12 36 13-0078 SY >500 To 1,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.42	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.92	
32 12 36 13-0079 SY >1,000 To 5,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	6.05	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.92	
32 12 36 13-0080 SY >5,000 To 10,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.86	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.92	
32 12 36 13-0081 SY >10,000 To 20,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.69	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.92	
32 12 36 13-0082 SY >20,000 To 50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.44	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.92	
32 12 36 13-0083 SY >50,000 SY, Coarse Screenings - PMCRS-2h, Asphalt Emulsion Seal Coat (Scrub Seal).....	5.37	
<i>For Each Additional 0.5% Latex Additive, Add</i>	0.92	
<b>32 12 36 13-0084 Fog Seal, CQS-1h</b> <small>(32 12 36 13)</small>		
<small>Note: A fog seal is a light application of diluted, slow-setting asphalt emulsion without aggregate cover. Includes sweeping and cleaning of area.</small>		
32 12 36 13-0085 SY Up To 200 SY, CQS-1h, Fog Seal.....	1.90	
32 12 36 13-0086 SY >200 To 500 SY, CQS-1h, Fog Seal.....	1.37	
32 12 36 13-0087 SY >500 To 1,000 SY, CQS-1h, Fog Seal.....	1.16	
32 12 36 13-0088 SY >1,000 To 5,000 SY, CQS-1h, Fog Seal.....	1.00	
32 12 36 13-0089 SY >5,000 To 10,000 SY, CQS-1h, Fog Seal.....	0.91	
32 12 36 13-0090 SY >10,000 To 20,000 SY, CQS-1h, Fog Seal.....	0.84	
32 12 36 13-0091 SY >20,000 To 50,000 SY, CQS-1h, Fog Seal.....	0.78	
32 12 36 13-0092 SY >50,000 SY, CQS-1h, Fog Seal.....	0.75	
<b>32 12 36 13-0093 Sand Sealer</b> <small>(32 12 36 13)</small>		
<small>Note: A sand seal is an application of asphalt binder followed by placement of a layer of sand or fine aggregate, and then rolled to embed the sand or fine aggregate into the binder. Includes sweeping and cleaning of area.</small>		
32 12 36 13-0094 SY Up To 200 SY, Sand Seal.....	3.01	
32 12 36 13-0095 SY >200 To 500 SY, Sand Seal.....	2.02	
32 12 36 13-0096 SY >500 To 1,000 SY, Sand Seal.....	2.01	
32 12 36 13-0097 SY >1,000 To 5,000 SY, Sand Seal.....	1.78	
32 12 36 13-0098 SY >5,000 To 10,000 SY, Sand Seal.....	1.65	
32 12 36 13-0099 SY >10,000 To 20,000 SY, Sand Seal.....	1.55	
32 12 36 13-0100 SY >20,000 To 50,000 SY, Sand Seal.....	1.48	
32 12 36 13-0101 SY >50,000 SY, Sand Seal.....	1.45	
<b>32 12 36 16 Coal Tar Seal Coats</b> <small>(32 12 36)</small>		
<b>32 12 36 16-0001 Thermoplastic Coal-Tar Asphalt Seal</b> <small>(32 12 36 16)</small>		
<small>Note: Includes sweeping and cleaning of area.</small>		
32 12 36 16-0002 SY Up To 500 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	15.38	

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 12 Flexible Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 12 36 16-0003 SY >500 To 1,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	14.46	
32 12 36 16-0004 SY >1,000 To 5,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	12.74	
32 12 36 16-0005 SY >5,000 To 20,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	11.44	
32 12 36 16-0006 SY >20,000 To 50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	9.73	
32 12 36 16-0007 SY >50,000 SY, Type I Thermoplastic Coal-Tar Asphalt Seal.....	8.01	
32 12 36 16-0008 SY Up To 500 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	18.68	
32 12 36 16-0009 SY >500 To 1,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	17.65	
32 12 36 16-0010 SY >1,000 To 5,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	15.59	
32 12 36 16-0011 SY >5,000 To 20,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	14.06	
32 12 36 16-0012 SY >20,000 To 50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	12.01	
32 12 36 16-0013 SY >50,000 SY, Type II Thermoplastic Coal-Tar Asphalt Seal.....	9.95	
<b>32 12 43 Porous Flexible Paving (32 12)</b>		
32 12 43 00-0001 Flexible Recycled Plastic Porous Grid (32 12 43)		
Note: Includes sand fill in rings. Excludes base, earth work and grass or sod.		
32 12 43 00-0002 SY 1" Thick, Recycled Plastic Flexible Pavement With Sand Fill.....	40.77	
Note: Includes sand fill in rings. Excludes base, earth work and grass or sod. Invisible Structures, Inc.; Grasspave2.		
For Up To 100, Add	13.54	
For >100 To 500, Add	3.38	
For >1,000 To 5,000, Deduct	-1.34	
For >5,000, Deduct	-2.83	
<b>32 12 73 Asphalt Paving Joint Sealants (32 12)</b>		
32 12 73 00-0001 Expansion Joint In Sidewalk (32 12 73)		
32 12 73 00-0002 LF For Hot Asphalt Poured Over Expansion Joint In Sidewalk.....	3.69	
<b>32 13 Rigid Paving (32 10)</b>		
<b>32 13 13 Concrete Paving (32 13)</b>		
Note: The following section includes spreading and placing delivered Portland cement concrete mix.		
<b>32 13 13 33 Plain Concrete Paving (32 13 13)</b>		
<b>32 13 13 33-0001 Concrete Paving Assemblies (32 13 13 33)</b>		
Note: Includes forms, wire mesh (where necessary), two mat layers #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float and finish. Excludes excavation, base and earthwork. Includes concrete paving machine. To be used for roadways, driveways, parking areas, or other areas of vehicular traffic. See CSI section 03 05 13 00-0001 for color additive.		
32 13 13 33-0002 4,500 PSI Concrete Paving Assembly (32 13 13 33-0001)		
32 13 13 33-0003 SY 4" 4,500 PSI Concrete Paving Assembly.....	71.66	
For 2,500 PSI Concrete, Deduct	-4.91	
For 3,000 PSI Concrete, Deduct	-3.20	
For 3,500 PSI Concrete, Deduct	-2.56	
For 4,000 PSI Concrete, Deduct	-1.11	
For 5,000 PSI Concrete, Add	0.68	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	5.55	
For <12' Wide Pass, Add	11.51	
For 24' Or Greater Wide Pass, Deduct	-14.33	
For Air Entrainment, Add	2.14	
For Slipforming, Deduct	-7.17	
For Up To 100, Add	25.90	
For >100 To 250, Add	15.09	
For >250 To 500, Add	7.54	
For >1,000 To 2,000, Deduct	-2.14	
For >2,000 To 5,000, Deduct	-3.93	
For >5,000 To 10,000, Deduct	-5.72	
For >10,000 To 20,000, Deduct	-7.51	
For >20,000, Deduct	-9.30	
32 13 13 33-0004 SY 5" 4,500 PSI Concrete Paving Assembly.....	85.77	
For 2,500 PSI Concrete, Deduct	-6.17	
For 3,000 PSI Concrete, Deduct	-4.02	
For 3,500 PSI Concrete, Deduct	-3.22	
For 4,000 PSI Concrete, Deduct	-1.39	
For 5,000 PSI Concrete, Add	0.86	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	6.97	
For <12' Wide Pass, Add	13.40	
For 24' Or Greater Wide Pass, Deduct	-17.15	
For Air Entrainment, Add	2.68	
For Slipforming, Deduct	-8.58	
For Up To 100, Add	30.01	
For >100 To 250, Add	17.69	
For >250 To 500, Add	8.84	
For >1,000 To 2,000, Deduct	-2.68	
For >2,000 To 5,000, Deduct	-4.83	
For >5,000 To 10,000, Deduct	-6.97	
For >10,000 To 20,000, Deduct	-9.11	
For >20,000, Deduct	-11.26	



		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, and Paving</b>	<b>32 10</b>
		<b>Rigid Paving</b>	<b>32 13</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13 33-0005	SY		6" 4,500 PSI Concrete Paving Assembly.....	91.39	
			<i>For 2,500 PSI Concrete, Deduct</i>	-6.51	
			<i>For 3,000 PSI Concrete, Deduct</i>	-4.24	
			<i>For 3,500 PSI Concrete, Deduct</i>	-3.39	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.47	
			<i>For 5,000 PSI Concrete, Add</i>	0.91	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	7.35	
			<i>For &lt;12' Wide Pass, Add</i>	14.36	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-18.28	
			<i>For Air Entrainment, Add</i>	2.83	
			<i>For Slipforming, Deduct</i>	-9.14	
			<i>For Up To 100, Add</i>	32.21	
			<i>For &gt;100 To 250, Add</i>	18.93	
			<i>For &gt;250 To 500, Add</i>	9.47	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-2.83	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-5.11	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-7.40	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-9.68	
			<i>For &gt;20,000, Deduct</i>	-11.97	
32 13 13 33-0006	SY		7" 4,500 PSI Concrete Paving Assembly.....	109.91	
			<i>For 2,500 PSI Concrete, Deduct</i>	-8.20	
			<i>For 3,000 PSI Concrete, Deduct</i>	-5.35	
			<i>For 3,500 PSI Concrete, Deduct</i>	-4.28	
			<i>For 4,000 PSI Concrete, Deduct</i>	-1.85	
			<i>For 5,000 PSI Concrete, Add</i>	1.14	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	9.27	
			<i>For &lt;12' Wide Pass, Add</i>	16.78	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-21.98	
			<i>For Air Entrainment, Add</i>	3.57	
			<i>For Slipforming, Deduct</i>	-10.99	
			<i>For Up To 100, Add</i>	37.41	
			<i>For &gt;100 To 250, Add</i>	22.27	
			<i>For &gt;250 To 500, Add</i>	11.14	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-3.57	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-6.31	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-9.06	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-11.81	
			<i>For &gt;20,000, Deduct</i>	-14.56	
32 13 13 33-0007	SY		8" 4,500 PSI Concrete Paving Assembly.....	124.58	
			<i>For 2,500 PSI Concrete, Deduct</i>	-9.00	
			<i>For 3,000 PSI Concrete, Deduct</i>	-5.87	
			<i>For 3,500 PSI Concrete, Deduct</i>	-4.70	
			<i>For 4,000 PSI Concrete, Deduct</i>	-2.04	
			<i>For 5,000 PSI Concrete, Add</i>	1.25	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	10.18	
			<i>For &lt;12' Wide Pass, Add</i>	19.40	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-24.92	
			<i>For Air Entrainment, Add</i>	3.92	
			<i>For Slipforming, Deduct</i>	-12.46	
			<i>For Up To 100, Add</i>	43.43	
			<i>For &gt;100 To 250, Add</i>	25.63	
			<i>For &gt;250 To 500, Add</i>	12.81	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-3.92	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-7.03	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-10.14	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-13.26	
			<i>For &gt;20,000, Deduct</i>	-16.37	
32 13 13 33-0008	SY		9" 4,500 PSI Concrete Paving Assembly.....	141.59	
			<i>For 2,500 PSI Concrete, Deduct</i>	-10.41	
			<i>For 3,000 PSI Concrete, Deduct</i>	-6.79	
			<i>For 3,500 PSI Concrete, Deduct</i>	-5.43	
			<i>For 4,000 PSI Concrete, Deduct</i>	-2.35	
			<i>For 5,000 PSI Concrete, Add</i>	1.45	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	11.76	
			<i>For &lt;12' Wide Pass, Add</i>	21.83	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-28.32	
			<i>For Air Entrainment, Add</i>	4.52	
			<i>For Slipforming, Deduct</i>	-14.16	
			<i>For Up To 100, Add</i>	48.76	
			<i>For &gt;100 To 250, Add</i>	28.91	
			<i>For &gt;250 To 500, Add</i>	14.45	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-4.52	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-8.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-11.60	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-15.14	
			<i>For &gt;20,000, Deduct</i>	-18.68	

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 13 13	33-0009	SY	10" 4,500 PSI Concrete Paving Assembly .....	157.39	
			<i>For 2,500 PSI Concrete, Deduct</i>	-11.45	
			<i>For 3,000 PSI Concrete, Deduct</i>	-7.46	
			<i>For 3,500 PSI Concrete, Deduct</i>	-5.97	
			<i>For 4,000 PSI Concrete, Deduct</i>	-2.59	
			<i>For 5,000 PSI Concrete, Add</i>	1.59	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	12.94	
			<i>For &lt;12' Wide Pass, Add</i>	24.42	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-31.48	
			<i>For Air Entrainment, Add</i>	4.98	
			<i>For Slipforming, Deduct</i>	-15.74	
			<i>For Up To 100, Add</i>	54.62	
			<i>For &gt;100 To 250, Add</i>	32.29	
			<i>For &gt;250 To 500, Add</i>	16.14	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-4.98	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-8.91	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-12.85	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-16.78	
			<i>For &gt;20,000, Deduct</i>	-20.72	
32 13 13	33-0010	SY	12" 4,500 PSI Concrete Paving Assembly .....	187.30	
			<i>For 2,500 PSI Concrete, Deduct</i>	-13.55	
			<i>For 3,000 PSI Concrete, Deduct</i>	-8.84	
			<i>For 3,500 PSI Concrete, Deduct</i>	-7.07	
			<i>For 4,000 PSI Concrete, Deduct</i>	-3.06	
			<i>For 5,000 PSI Concrete, Add</i>	1.89	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	15.32	
			<i>For &lt;12' Wide Pass, Add</i>	29.15	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-37.46	
			<i>For Air Entrainment, Add</i>	5.89	
			<i>For Slipforming, Deduct</i>	-18.73	
			<i>For Up To 100, Add</i>	65.24	
			<i>For &gt;100 To 250, Add</i>	38.51	
			<i>For &gt;250 To 500, Add</i>	19.26	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-5.89	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-10.58	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-15.26	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-19.94	
			<i>For &gt;20,000, Deduct</i>	-24.62	
32 13 13	33-0011	SY	15" 4,500 PSI Concrete Paving Assembly .....	236.88	
			<i>For 2,500 PSI Concrete, Deduct</i>	-16.64	
			<i>For 3,000 PSI Concrete, Deduct</i>	-10.85	
			<i>For 3,500 PSI Concrete, Deduct</i>	-8.68	
			<i>For 4,000 PSI Concrete, Deduct</i>	-3.76	
			<i>For 5,000 PSI Concrete, Add</i>	2.32	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	18.81	
			<i>For &lt;12' Wide Pass, Add</i>	37.51	
			<i>For 24' Or Greater Wide Pass, Deduct</i>	-47.38	
			<i>For Air Entrainment, Add</i>	7.24	
			<i>For Slipforming, Deduct</i>	-23.69	
			<i>For Up To 100, Add</i>	84.24	
			<i>For &gt;100 To 250, Add</i>	49.35	
			<i>For &gt;250 To 500, Add</i>	24.68	
			<i>For &gt;1,000 To 2,000, Deduct</i>	-7.24	
			<i>For &gt;2,000 To 5,000, Deduct</i>	-13.16	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-19.08	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-25.00	
			<i>For &gt;20,000, Deduct</i>	-30.92	

**32 13 16 Decorative Concrete Paving (32 13)****32 13 16 13 Patterned Concrete Paving (32 13 16)**

32 13 16 13-0001	SF	For Patterned (Tactile) Finish In Concrete Sidewalk.....	5.05
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**32 13 43 Pervious Concrete Paving (32 13)****32 13 43 00-0001 Pervious Concrete Assemblies (32 13 43)**

Note: Pervious concrete is a special concrete mix with high porosity that allows water to pass through it. For paving and sidewalks.

32 13 43 00-0002	SF	6" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	17.44
		Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	
		<i>For &gt;5,000 To 30,000, Deduct</i>	-1.85
		<i>For &gt;30,000 To 100,000, Deduct</i>	-3.36
		<i>For &gt;100,000, Deduct</i>	-4.18
32 13 43 00-0003	SF	9" Thick, 15-25% Porosity, Minimum 115 PCF, Pervious Concrete Paving.....	22.22
		Note: Includes filter fabric, concrete, curing, finish, and control joints. Excludes excavation, base, forms and expansion joints along existing.	
		<i>For &gt;5,000 To 30,000, Deduct</i>	-2.29
		<i>For &gt;30,000 To 100,000, Deduct</i>	-4.08
		<i>For &gt;100,000, Deduct</i>	-5.07

**32 13 73 Concrete Paving Joint Sealants (32 13)****32 13 73 13 Fuel-Resistant Concrete Paving Joint Sealants (32 13 73)**



		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, and Paving</b>	<b>32 10</b>
		<b>Rigid Paving</b>	<b>32 13</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>32 13 73 13-0001</b>	<b>Concrete Pavement Joint And Crack Repair</b> <small>(32 13 73 13)</small>		
	Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
<b>32 13 73 13-0002</b>	<b>Silicone Concrete Pavement Joint And Crack Repair</b> <small>(32 13 73 13-0001)</small>		
32 13 73 13-0003	CLF 1/4" x 1/4" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	586.78 20.94 30.54 17.45	
32 13 73 13-0004	CLF 1/4" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	663.71 31.41 45.81 26.18	
32 13 73 13-0005	CLF 1/4" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	740.63 41.88 61.08 34.90	
32 13 73 13-0006	CLF 3/8" x 3/8" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	762.45 47.12 68.71 39.26	
32 13 73 13-0007	CLF 3/8" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	844.54 62.82 91.62 52.35	
32 13 73 13-0008	CLF 3/8" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	926.63 78.53 114.52 65.44	
32 13 73 13-0009	CLF 3/8" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,025.37 94.23 137.42 78.53	
32 13 73 13-0010	CLF 1/2" x 1/2" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	948.44 83.76 122.15 69.80	
32 13 73 13-0011	CLF 1/2" x 5/8" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,102.29 104.70 152.69 87.25	
32 13 73 13-0012	CLF 1/2" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,222.85 125.64 183.23 104.70	
32 13 73 13-0013	CLF 1/2" x 7/8" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,343.41 146.58 213.77 122.15	
32 13 73 13-0014	CLF 1/2" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,447.31 167.52 244.31 139.60	
32 13 73 13-0015	CLF 3/4" x 3/4" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,551.21 188.46 274.84 157.05	
32 13 73 13-0016	CLF 3/4" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,889.90 261.76 381.73 218.13	
32 13 73 13-0017	CLF 1" x 1" Joint, Silicone Concrete Pavement Joint And Crack Repair ..... <i>For Custom Match Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	2,228.58 335.05 488.61 279.21	

**32 13 73 16 Field-Molded Concrete Paving Joint Sealants** (32 13 73)

<b>32 13 73 16-0001</b>	<b>Preformed Elastomeric Concrete Pavement Joint And Crack Repair</b> <small>(32 13 73 16)</small>		
	Note: Includes cutting joint, removal of existing material, sweeping and cleaning area.		
32 13 73 16-0002	LF Joint Sealing, Concrete Pavement Preformed Elastomeric .....	13.73	

**32 13 73 19 Compression Concrete Paving Joint Sealants** (32 13 73)

<b>32 13 73 19-0001</b>	<b>Silicone Joint Sealant For Concrete Pavement</b> <small>(32 13 73 19)</small>		
	Note: Installation includes high pressure water wash, sand blast, sweeping, cleaning area, backer rod and Dow Corning 888 silicone sealant. Demolition includes removal of existing material where saw cutting is not required. Excludes saw cutting.		
32 13 73 19-0002	LF 1/4" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	10.60	2.48
32 13 73 19-0003	LF 3/8" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	11.12	2.53
32 13 73 19-0004	LF 1/2" x 1/4" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	11.72	2.58
32 13 73 19-0005	LF 3/4" x 3/8" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	13.73	2.63
32 13 73 19-0006	LF 1" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	16.09	2.69
32 13 73 19-0007	LF 1-1/2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	19.62	2.74

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 13 Rigid Paving**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 13 73 19-0008 LF 2" x 1/2" Expansion And Contraction Silicone Joint Sealant For Concrete Pavement .....	25.65	2.80
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**32 14 Unit Paving** (32 10)**32 14 09 Paver Restraints** (32 14)**32 14 09 00-0001 Paver Restraints** (32 14 09)

Note: Paver restraints are used along the edge of a group of pavers as a locking border. Flexible or rigid sections. Includes stakes and connecting devices. Excludes pavers, bedding, excavation, base course and compaction.

32 14 09 00-0002 LF Up To 2" Height, Vinyl Paver Restraint .....	4.98	1.07
For >1,000 To 2,000, Deduct	-0.72	
For >2,000 To 4,000, Deduct	-1.05	
For >4,000, Deduct	-1.34	
32 14 09 00-0003 LF Up To 2" Height, Galvanized Steel Paver Restraint .....	5.42	1.07
For >500 To 1,000, Deduct	-0.19	
For >1,000 To 2,000, Deduct	-0.37	
For >2,000, Deduct	-0.56	
32 14 09 00-0004 LF Up To 1" Height, Aluminum Paver Restraint .....	5.20	1.07
For >250 To 500, Deduct	-0.35	
For >500 To 1,000, Deduct	-0.53	
For >1,000 To 1,500, Deduct	-0.88	
32 14 09 00-0005 LF >1" To 2" Height, Aluminum Paver Restraint .....	6.18	1.07
For >250 To 500, Deduct	-0.45	
For >500 To 1,000, Deduct	-0.67	
For >1,000 To 1,500, Deduct	-1.12	
32 14 09 00-0006 LF >2" To 3" Height, Aluminum Paver Restraint .....	8.06	1.07
For >250 To 500, Deduct	-0.64	
For >500 To 1,000, Deduct	-0.95	
For >1,000 To 1,500, Deduct	-1.59	
32 14 09 00-0007 LF >3" To 4" Height, Aluminum Paver Restraint .....	9.50	1.07
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.17	
For >1,000 To 1,500, Deduct	-1.95	

**32 14 11 Bedding for Unit Paving** (32 14)**32 14 11 00-0001 Bedding For Brick, Precast Concrete Paver And Stone Sidewalk** (32 14 11)

Note: Includes delivery up to 15 miles from the closest approved source, the cost for loading, and dumping. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

32 14 11 00-0002 SF 1" To 2" Sand Bedding, Screeded .....	1.09	
For Up To 100, Add	0.49	
For >100 To 500, Add	0.14	
For >1,000 To 5,000, Deduct	-0.09	
For >5,000, Deduct	-0.13	
32 14 11 00-0003 SF 1" To 2" Stone Dust Bedding, Screeded .....	1.29	
For Up To 100, Add	0.54	
For >100 To 500, Add	0.15	
For >1,000 To 5,000, Deduct	-0.09	
For >5,000, Deduct	-0.14	
32 14 11 00-0004 SF 3" Stone Dust Bedding, Screeded .....	1.66	
For Up To 100, Add	0.67	
For >100 To 500, Add	0.18	
For >1,000 To 5,000, Deduct	-0.10	
For >5,000, Deduct	-0.17	
32 14 11 00-0005 SF 4" Stone Dust Bedding, Screeded .....	2.11	
For Up To 100, Add	0.84	
For >100 To 500, Add	0.23	
For >1,000 To 5,000, Deduct	-0.12	
For >5,000, Deduct	-0.21	
32 14 11 00-0006 SF 1" Mortar Bedding .....	3.68	
For Up To 100, Add	1.62	
For >100 To 500, Add	0.46	
For >1,000 To 5,000, Deduct	-0.28	
For >5,000, Deduct	-0.44	
32 14 11 00-0007 SF 2" Mortar Bedding .....	5.51	
For Up To 100, Add	2.31	
For >100 To 500, Add	0.65	
For >1,000 To 5,000, Deduct	-0.37	
For >5,000, Deduct	-0.61	
32 14 11 00-0008 SF Thin-Set Latex Portland Cement Mortar .....	1.72	
For Up To 100, Add	0.80	
For >100 To 500, Add	0.24	
For >1,000 To 5,000, Deduct	-0.15	
For >5,000, Deduct	-0.23	

**32 14 13 Precast Concrete Unit Paving** (32 14)**32 14 13 16 Precast Concrete Unit Paving Slabs** (32 14 13)





		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, and Paving</b>	<b>32 10</b>
		<b>Unit Paving</b>	<b>32 14</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>32 14 13 16-0001</b>			<b>Precast Concrete Paver Sidewalk</b> <small>(32 14 13 16)</small> Note: Square, rectangular, or interlocking pervious pavers. Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 14 13 16-0002	SF		2-3/8" Thick, Up To 32 SI Precast Concrete Paver..... Note: Includes 2-1/2" x 5", 4" x 4", 4" x 6", 5" x 5", 4" x 8" and other similar size pavers.	14.22	3.47
			<i>For 2-3/4" Concrete Paver, Add</i>	1.44	
			<i>For 3-1/8" Concrete Paver, Add</i>	2.34	
			<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.06	
			<i>For Up To 100, Add</i>	5.30	
			<i>For &gt;100 To 500, Add</i>	1.41	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.70	
			<i>For &gt;5,000, Deduct</i>	-1.26	
32 14 13 16-0003	SF		2-3/8" Thick, >32 to 64 SI Precast Concrete Paver ..... Note: Includes 5" x 7", 6" x 6", 8" x 8" and other similar size pavers.	13.59	3.17
			<i>For 2-3/4" Concrete Paver, Add</i>	1.40	
			<i>For 3-1/8" Concrete Paver, Add</i>	2.29	
			<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.00	
			<i>For Up To 100, Add</i>	4.98	
			<i>For &gt;100 To 500, Add</i>	1.31	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.63	
			<i>For &gt;5,000, Deduct</i>	-1.17	
32 14 13 16-0004	SF		2-3/8" Thick, >64 to 144 SI Precast Concrete Paver ..... Note: Includes 6" x 12", 12" x 12" and other similar size pavers.	13.00	2.52
			<i>For 2-3/4" Concrete Paver, Add</i>	1.38	
			<i>For 3-1/8" Concrete Paver, Add</i>	2.24	
			<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.94	
			<i>For Up To 100, Add</i>	4.69	
			<i>For &gt;100 To 500, Add</i>	1.23	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.58	
			<i>For &gt;5,000, Deduct</i>	-1.08	
32 14 13 16-0005	SF		2-3/8" Thick, >144 SI Precast Concrete Paver ..... Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.	12.48	2.61
			<i>For 2-3/4" Concrete Paver, Add</i>	1.35	
			<i>For 3-1/8" Concrete Paver, Add</i>	2.20	
			<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.89	
			<i>For Up To 100, Add</i>	4.43	
			<i>For &gt;100 To 500, Add</i>	1.15	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.52	
			<i>For &gt;5,000, Deduct</i>	-1.00	
32 14 13 16-0006	SF		2-3/8" Thick, Precast Concrete Paver, Combinations And Patterns ..... Note: Patterns made by combining pavers from two or more size groups.	13.29	3.01
			<i>For 2-3/4" Concrete Paver, Add</i>	1.39	
			<i>For 3-1/8" Concrete Paver, Add</i>	2.27	
			<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.97	
			<i>For Up To 100, Add</i>	4.83	
			<i>For &gt;100 To 500, Add</i>	1.27	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.60	
			<i>For &gt;5,000, Deduct</i>	-1.12	

**32 14 13 19 Porous Precast Concrete Unit Paving** (32 14 13)

<b>32 14 13 19-0001</b>			<b>Turf Block</b> <small>(32 14 13 19)</small> Note: Grass grid, open-cell unit paver, geoblock.		
32 14 13 19-0002	SF		3-1/8" Thick, Precast Concrete Turf Block.....	12.66	3.01
			<i>For Up To 100, Add</i>	4.68	
			<i>For &gt;100 To 500, Add</i>	1.24	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.60	
			<i>For &gt;5,000, Deduct</i>	-1.10	

**32 14 16 Brick Unit Paving** (32 14)

<b>32 14 16 00-0001</b>			<b>Brick Paver Sidewalk</b> <small>(32 14 16)</small> Note: Includes sand joints. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 14 16 00-0002	SF		4" x 8" x 2-1/4" Brick Paver, Laid Flat.....	15.68	3.47
			<i>For 1-3/8" Thick Paver, Deduct</i>	-3.40	
			<i>For 2-3/4" Thick Paver (Vehicular), Add</i>	7.78	
			<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.13	
			<i>For Up To 100, Add</i>	5.66	
			<i>For &gt;100 To 500, Add</i>	1.48	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.70	
			<i>For &gt;5,000, Deduct</i>	-1.31	
32 14 16 00-0003	SF		4" x 8" x 2-1/4" Brick, Laid On Edge.....	23.40	3.97
			<i>For 1-3/8" Thick Paver, Deduct</i>	-5.81	
			<i>For 2-3/4" Thick Paver (Vehicular), Add</i>	13.61	
			<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.57	
			<i>For Up To 100, Add</i>	7.83	
			<i>For &gt;100 To 500, Add</i>	1.96	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.79	
			<i>For &gt;5,000, Deduct</i>	-1.65	

**32 14 33 Plastic Paving** (32 14)

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 14 Unit Paving**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 14 33 13</b>		<b>Permeable Plastic Paving</b> <small>(32 14 33)</small>		
<b>32 14 33 13-0001</b>		<b>Turf Block Plastic Paving</b> <small>(32 14 33 13)</small>		
32 14 33 13-0002	SF	4" Thick Recycled Polyvinyl Chloride (PVC) Plastic Turf Block.....	19.18	3.01
		<i>For Up To 100, Add</i>	6.31	
		<i>For &gt;100 To 500, Add</i>	1.56	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.60	
		<i>For &gt;5,000, Deduct</i>	-1.30	
<b>32 14 40</b>		<b>Stone Paving</b> <small>(32 14)</small>		
<b>32 14 40 00-0001</b>		<b>Slate Paver Sidewalk</b> <small>(32 14 40)</small>		
		Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0002	SF	1" Thick, Up to 54 SI Slate Paver.....	16.21	2.88
		Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.10	
		<i>For 1/4" Thick Paver, Deduct</i>	-8.13	
		<i>For 1/2" Thick Paver, Deduct</i>	-5.67	
		<i>For Up To 100, Add</i>	5.49	
		<i>For &gt;100 To 500, Add</i>	1.39	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.58	
		<i>For &gt;5,000, Deduct</i>	-1.18	
32 14 40 00-0003	SF	1" Thick, >54 to 108 SI Slate Paver.....	15.69	2.61
		Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.05	
		<i>For 1/4" Thick Paver, Deduct</i>	-8.00	
		<i>For 1/2" Thick Paver, Deduct</i>	-5.60	
		<i>For Up To 100, Add</i>	5.23	
		<i>For &gt;100 To 500, Add</i>	1.31	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.52	
		<i>For &gt;5,000, Deduct</i>	-1.10	
32 14 40 00-0004	SF	1" Thick, >108 to 216 SI Slate Paver.....	14.79	2.16
		Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers.		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.96	
		<i>For 1/4" Thick Paver, Deduct</i>	-7.78	
		<i>For 1/2" Thick Paver, Deduct</i>	-5.46	
		<i>For Up To 100, Add</i>	4.78	
		<i>For &gt;100 To 500, Add</i>	1.17	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.43	
		<i>For &gt;5,000, Deduct</i>	-0.96	
32 14 40 00-0005	SF	1" Thick, >216 SI Slate Paver.....	14.39	1.96
		Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24", 24" x 36", 36" x 36" and other similar size pavers.		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	0.92	
		<i>For 1/4" Thick Paver, Deduct</i>	-7.68	
		<i>For 1/2" Thick Paver, Deduct</i>	-5.40	
		<i>For Up To 100, Add</i>	4.58	
		<i>For &gt;100 To 500, Add</i>	1.11	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.39	
		<i>For &gt;5,000, Deduct</i>	-0.90	
32 14 40 00-0006	SF	1" Thick, Slate Paver, Combinations And Patterns.....	15.20	2.37
		Note: Patterns made by combining pavers from two or more size groups.		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.00	
		<i>For 1/4" Thick Paver, Deduct</i>	-7.88	
		<i>For 1/2" Thick Paver, Deduct</i>	-5.52	
		<i>For Up To 100, Add</i>	4.99	
		<i>For &gt;100 To 500, Add</i>	1.23	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.47	
		<i>For &gt;5,000, Deduct</i>	-1.02	
<b>32 14 40 00-0007</b>		<b>Granite Paver Sidewalk</b> <small>(32 14 40)</small>		
		Note: Includes sand joints and all finishes. Excludes bedding, excavation, base course and compaction. See CSI section 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course, 32 14 11 00-0001 for bedding.		
32 14 40 00-0008	SF	1" Thick, Up to 54 SI Granite Paver.....	22.99	2.88
		Note: Includes 3" x 9", 6" x 6", 6" x 9" and other similar size pavers.		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.44	
		<i>For 2" Granite Paver, Add</i>	1.15	
		<i>For 3" Granite Paver, Add</i>	2.30	
		<i>For 4" Granite Paver, Add</i>	2.59	
		<i>For Up To 100, Add</i>	7.19	
		<i>For &gt;100 To 500, Add</i>	1.72	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.58	
		<i>For &gt;5,000, Deduct</i>	-1.38	
32 14 40 00-0009	SF	1" Thick, >54 to 108 SI Granite Paver.....	22.47	2.61
		Note: Includes 6" x 12", 9" x 9", 6" x 18", 9" x 12" and other similar size pavers.		
		<i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i>	1.39	
		<i>For 2" Granite Paver, Add</i>	1.12	
		<i>For 3" Granite Paver, Add</i>	2.25	
		<i>For 4" Granite Paver, Add</i>	2.51	
		<i>For Up To 100, Add</i>	6.93	
		<i>For &gt;100 To 500, Add</i>	1.65	
		<i>For &gt;1,000 To 5,000, Deduct</i>	-0.52	
		<i>For &gt;5,000, Deduct</i>	-1.30	



		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, and Paving</b>	<b>32 10</b>
		<b>Unit Paving</b>	<b>32 14</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 14 40 00-0010	SF		1" Thick, >108 to 216 SI Granite Paver ..... Note: Includes 12" x 12", 6" x 24", 9" x 18", 9" x 24", 12" x 18" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For &gt;100 To 500, Add</i> <i>For &gt;1,000 To 5,000, Deduct</i> <i>For &gt;5,000, Deduct</i>	21.57 1.30 1.08 2.16 2.37 6.48 1.51 -0.43 -1.17	2.16
32 14 40 00-0011	SF		1" Thick, >216 SI Granite Paver ..... Note: Includes 16" x 16", 12" x 24", 18" x 18", 24" x 24" and other similar size pavers. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For &gt;100 To 500, Add</i> <i>For &gt;1,000 To 5,000, Deduct</i> <i>For &gt;5,000, Deduct</i>	21.17 1.26 1.06 2.12 2.31 6.28 1.45 -0.39 -1.11	1.96
32 14 40 00-0012	SF		1" Thick, Granite Paver, Combinations And Patterns ..... Note: Patterns made by combining pavers from two or more size groups. <i>For Cement/Sand Mix Or Polymeric Sand Joints, Add</i> <i>For 2" Granite Paver, Add</i> <i>For 3" Granite Paver, Add</i> <i>For 4" Granite Paver, Add</i> <i>For Up To 100, Add</i> <i>For &gt;100 To 500, Add</i> <i>For &gt;1,000 To 5,000, Deduct</i> <i>For &gt;5,000, Deduct</i>	21.98 1.34 1.10 2.20 2.44 6.68 1.57 -0.47 -1.23	2.37

**32 15 Aggregate Surfacing** (32 10)

**32 15 40 Crushed Stone Surfacing** (32 15)

Note: Includes delivery up to 15 miles from supplier, placement, rolling and compaction water. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

32 15 40 00-0001			<b>Gravel Surfacing And Spreading</b> <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0002	CY		Gravel Surfacing And Spreading .....	104.73	
32 15 40 00-0003			<b>Limestone Screenings</b> <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water. For trail maintenance.		
32 15 40 00-0004	CY		Limestone Screenings For Trail .....	116.67	
32 15 40 00-0005			<b>Decomposed Granite</b> <small>(32 15 40)</small> Note: Includes delivered material, placement, rolling and compaction water.		
32 15 40 00-0006	SY		3" To 4" Thick Decomposed Granite Screenings With Stabilizer Pathway ..... Note: Placed in 2 lifts. <i>For Additional 2" Lift</i> <i>For &gt;45 To 180, Deduct</i> <i>For &gt;180 To 450, Deduct</i> <i>For &gt;450, Deduct</i>	19.39 9.70 -1.29 -1.62 -1.94	

**32 16 Curbs, Gutters, Sidewalks, and Driveways** (32 10)

**32 16 13 Curbs and Gutters** (32 16)

Note: Includes transitions. Demolition Includes two saw cuts (each end) of curbs and gutters for lengths up to 100'. See CSI section 02 41 19 13-0001 for additional saw cuts within the 100'.

**32 16 13 13 Cast-In-Place Concrete Curbs and Gutters** (32 16 13)

Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.

32 16 13 13-0001			<b>Cast In Place Concrete Curb And Gutter Assemblies</b> <small>(32 16 13 13)</small> Note: Includes concrete, forms, rebar, chairs (where necessary), transitions, expansion joints, finish and curing.		
32 16 13 13-0002	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Straight .....	30.98	13.36
			<i>For Up To 20, Add</i> <i>For &gt;20 To 50, Add</i> <i>For &gt;50 To 100, Add</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For Mountable Or Rolled Curb And Gutter, Add</i>	20.93 11.63 4.65 -3.89 -6.61 1.92	
32 16 13 13-0003	LF		6" x 12" Cast In Place Concrete Gutter With 6" Curb And Face - Radius .....	33.77	17.83
			<i>For Up To 20, Add</i> <i>For &gt;20 To 50, Add</i> <i>For &gt;50 To 100, Add</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For Mountable Or Rolled Curb And Gutter, Add</i>	22.83 12.69 5.07 -4.25 -7.22 2.12	

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0004 LF 6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	39.46	14.82
For Up To 20, Add	26.63	
For >20 To 50, Add	14.79	
For >50 To 100, Add	5.92	
For >500 To 1,000, Deduct	-4.93	
For >1,000, Deduct	-8.37	
For Mountable Or Rolled Curb And Gutter, Add	2.41	
32 16 13 13-0005 LF 6" x 18" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	43.56	16.49
For Up To 20, Add	29.42	
For >20 To 50, Add	16.35	
For >50 To 100, Add	6.53	
For >500 To 1,000, Deduct	-5.46	
For >1,000, Deduct	-9.29	
For Mountable Or Rolled Curb And Gutter, Add	2.70	
32 16 13 13-0006 LF 6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Straight (Type A3-6).....	47.94	17.83
For Up To 20, Add	32.33	
For >20 To 50, Add	17.95	
For >50 To 100, Add	7.19	
For >500 To 1,000, Deduct	-5.96	
For >1,000, Deduct	-10.14	
For Mountable Or Rolled Curb And Gutter, Add	2.89	
32 16 13 13-0007 LF 6" x 24" Cast In Place Concrete Gutter With 6" Curb And Face - Radius (Type A3-6).....	53.34	20.06
For Up To 20, Add	36.01	
For >20 To 50, Add	20.01	
For >50 To 100, Add	8.00	
For >500 To 1,000, Deduct	-6.68	
For >1,000, Deduct	-11.35	
For Mountable Or Rolled Curb And Gutter, Add	3.28	
32 16 13 13-0008 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	57.00	21.17
For Up To 20, Add	38.43	
For >20 To 50, Add	21.33	
For >50 To 100, Add	8.55	
For >500 To 1,000, Deduct	-7.08	
For >1,000, Deduct	-12.05	
For Mountable Or Rolled Curb And Gutter, Add	3.43	
32 16 13 13-0009 LF 6" x 30" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	62.59	23.40
For Up To 20, Add	42.23	
For >20 To 50, Add	23.46	
For >50 To 100, Add	9.39	
For >500 To 1,000, Deduct	-7.81	
For >1,000, Deduct	-13.28	
For Mountable Or Rolled Curb And Gutter, Add	3.81	
32 16 13 13-0010 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	66.04	24.51
For Up To 20, Add	44.53	
For >20 To 50, Add	24.71	
For >50 To 100, Add	9.91	
For >500 To 1,000, Deduct	-8.20	
For >1,000, Deduct	-13.96	
For Mountable Or Rolled Curb And Gutter, Add	3.96	
32 16 13 13-0011 LF 6" x 36" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	71.83	26.74
For Up To 20, Add	48.45	
For >20 To 50, Add	26.90	
For >50 To 100, Add	10.77	
For >500 To 1,000, Deduct	-8.94	
For >1,000, Deduct	-15.21	
For Mountable Or Rolled Curb And Gutter, Add	4.34	
32 16 13 13-0012 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Straight.....	75.10	27.85
For Up To 20, Add	50.63	
For >20 To 50, Add	28.10	
For >50 To 100, Add	11.27	
For >500 To 1,000, Deduct	-9.33	
For >1,000, Deduct	-15.87	
For Mountable Or Rolled Curb And Gutter, Add	4.50	
32 16 13 13-0013 LF 6" x 42" Cast In Place Concrete Gutter With 6" Curb And Face - Radius.....	83.29	31.19
For Up To 20, Add	56.21	
For >20 To 50, Add	31.23	
For >50 To 100, Add	12.49	
For >500 To 1,000, Deduct	-10.40	
For >1,000, Deduct	-17.69	
For Mountable Or Rolled Curb And Gutter, Add	5.09	
<b>32 16 13 13-0014 Cast In Place Concrete Curbs Assemblies</b> <small>(32 16 13 13)</small>		
Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.		
32 16 13 13-0015 LF 6" x 12" Cast In Place Concrete Curb (Type A1-6).....	22.83	11.32
For Mountable Curb, Add	1.55	
For Up To 20, Add	13.62	
For >20 To 50, Add	7.72	
For >50 To 100, Add	2.95	
For >500 To 1,000, Deduct	-2.95	
For >1,000, Deduct	-5.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0016 LF 6" x 12" Cast In Place Concrete Curb - Radius (Type A1-6).....	26.13	13.02
For Mountable Curb, Add	1.81	
For Up To 20, Add	15.70	
For >20 To 50, Add	8.90	
For >50 To 100, Add	3.40	
For >500 To 1,000, Deduct	-3.40	
For >1,000, Deduct	-5.75	
32 16 13 13-0017 LF 6" x 14" Cast In Place Concrete Curb (Type A1-8).....	25.13	11.32
For Mountable Curb, Add	1.69	
For Up To 20, Add	14.93	
For >20 To 50, Add	8.45	
For >50 To 100, Add	3.24	
For >500 To 1,000, Deduct	-3.24	
For >1,000, Deduct	-5.48	
32 16 13 13-0018 LF 6" x 14" Cast In Place Concrete Curb - Radius (Type A1-8).....	28.79	13.02
For Mountable Curb, Add	1.97	
For Up To 20, Add	17.22	
For >20 To 50, Add	9.76	
For >50 To 100, Add	3.73	
For >500 To 1,000, Deduct	-3.73	
For >1,000, Deduct	-6.32	
32 16 13 13-0019 LF 6" x 16" Cast In Place Concrete Curb.....	27.74	11.32
For Mountable Curb, Add	1.81	
For Up To 20, Add	16.30	
For >20 To 50, Add	9.22	
For >50 To 100, Add	3.54	
For >500 To 1,000, Deduct	-3.54	
For >1,000, Deduct	-6.00	
32 16 13 13-0020 LF 6" x 16" Cast In Place Concrete Curb - Radius.....	31.67	16.98
For Mountable Curb, Add	2.12	
For Up To 20, Add	18.78	
For >20 To 50, Add	10.64	
For >50 To 100, Add	4.07	
For >500 To 1,000, Deduct	-4.07	
For >1,000, Deduct	-6.90	
32 16 13 13-0021 LF 6" x 18" Cast In Place Concrete Curb.....	29.83	11.32
For Mountable Curb, Add	1.91	
For Up To 20, Add	17.41	
For >20 To 50, Add	9.85	
For >50 To 100, Add	3.78	
For >500 To 1,000, Deduct	-3.78	
For >1,000, Deduct	-6.42	
32 16 13 13-0022 LF 6" x 18" Cast In Place Concrete Curb - Radius.....	33.69	13.02
For Mountable Curb, Add	2.18	
For Up To 20, Add	19.76	
For >20 To 50, Add	11.18	
For >50 To 100, Add	4.29	
For >500 To 1,000, Deduct	-4.29	
For >1,000, Deduct	-7.28	
32 16 13 13-0023 LF 6" x 24" Cast In Place Concrete Curb.....	34.52	12.46
For Mountable Curb, Add	2.00	
For Up To 20, Add	19.48	
For >20 To 50, Add	11.00	
For >50 To 100, Add	4.24	
For >500 To 1,000, Deduct	-4.24	
For >1,000, Deduct	-7.23	
32 16 13 13-0024 LF 6" x 24" Cast In Place Concrete Curb - Radius.....	38.59	14.14
For Mountable Curb, Add	2.26	
For Up To 20, Add	21.87	
For >20 To 50, Add	12.35	
For >50 To 100, Add	4.76	
For >500 To 1,000, Deduct	-4.76	
For >1,000, Deduct	-8.10	
32 16 13 13-0025 LF 12" x 24" Cast In Place Concrete Curb.....	46.25	14.14
For Mountable Curb, Add	1.84	
For Up To 20, Add	23.40	
For >20 To 50, Add	13.12	
For >50 To 100, Add	5.14	
For >500 To 1,000, Deduct	-5.14	
For >1,000, Deduct	-8.87	
32 16 13 13-0026 LF 12" x 24" Cast In Place Concrete Curb - Radius.....	51.44	15.84
For Mountable Curb, Add	2.08	
For Up To 20, Add	26.14	
For >20 To 50, Add	14.65	
For >50 To 100, Add	5.74	
For >500 To 1,000, Deduct	-5.74	
For >1,000, Deduct	-9.90	
32 16 13 13-0027 EA Additional Finish For Handicap Drop Section In Curb.....	84.89	

32 16 13 13-0028 Concrete Band, Cast In Place (32 16 13 13)

Note: Includes delivered concrete, forms, rebar, chairs (where necessary), expansion joints, finish and curing.

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 16 Curbs, Gutters, Sidewalks, and Driveways**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 13-0029 LF 6" x 6" Concrete Band.....	20.68	11.32
Note: Excludes base course.		
For Up To 20, Add	13.19	
For >20 To 50, Add	7.50	
For >50 To 100, Add	2.85	
For >500 To 1,000, Deduct	-2.85	
For >1,000, Deduct	-4.78	
<b>32 16 13 14 Machine Formed, Slip Form Curbs (32 16 13)</b>		
Note: Includes delivered concrete, steel, expansion joints and finish.		
32 16 13 14-0001 LF 6" x 12" Straight Concrete Curb, Machine Formed.....	16.84	
32 16 13 14-0002 LF 6" x 12" Curved Concrete Curb, Machine Formed.....	21.92	
32 16 13 14-0003 LF 6" x 18" Straight Concrete Curb, Machine Formed.....	22.42	
32 16 13 14-0004 LF 6" x 18" Curved Concrete Curb, Machine Formed.....	28.02	
<b>32 16 13 16 Steel Faced Curbs (32 16 13)</b>		
Note: Fabrication includes handicap and other curb access cuts.		
<b>32 16 13 16-0001 Sidewalk/Curb Facing (32 16 13 16)</b>		
Note: Fabrication includes handicap and other curb access cuts.		
32 16 13 16-0002 LF 3" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	16.66	5.29
For Curved Section, Add	3.64	
32 16 13 16-0003 LF 4" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	18.33	6.01
For Curved Section, Add	4.09	
32 16 13 16-0004 LF 6" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	24.72	6.73
For Curved Section, Add	5.01	
32 16 13 16-0005 LF 8" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	30.33	7.57
For Curved Section, Add	5.85	
32 16 13 16-0006 LF 10" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	37.11	8.30
For Curved Section, Add	6.81	
32 16 13 16-0007 LF 12" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	48.53	10.57
For Curved Section, Add	8.80	
32 16 13 16-0008 LF 13" Steel Sidewalk/Curb Facing, With Steel Anchor, 12" On Center.....	55.95	13.70
For Curved Section, Add	10.71	
32 16 13 16-0009 EA Sidewalk/Curb Steel Facing, Pedestrian Ramps, Two Drops Per Section.....	174.99	
<b>32 16 13 19 Cast-In-Place Concrete Drainage Ditches (32 16 13)</b>		
Note: Includes concrete, forms, rebar (where required), rebar chairs (where necessary), expansion joints, finish and curing.		
<b>32 16 13 19-0001 Valley Gutter, Cast In Place (32 16 13 19)</b>		
Note: Includes concrete, forms, rebar, expansion joints, finish and curing.		
32 16 13 19-0002 LF 2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	26.54	
For Up To 20, Add	11.10	
For >20 To 50, Add	6.13	
For >50 To 100, Add	2.49	
For >500 To 1,000, Deduct	-2.49	
For >1,000, Deduct	-4.39	
32 16 13 19-0003 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	32.63	
For Up To 20, Add	13.50	
For >20 To 50, Add	7.45	
For >50 To 100, Add	3.03	
For >500 To 1,000, Deduct	-3.03	
For >1,000, Deduct	-5.35	
32 16 13 19-0004 LF 3' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	38.69	
For Up To 20, Add	15.87	
For >20 To 50, Add	8.75	
For >50 To 100, Add	3.56	
For >500 To 1,000, Deduct	-3.56	
For >1,000, Deduct	-6.31	
32 16 13 19-0005 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	44.70	
For Up To 20, Add	18.21	
For >20 To 50, Add	10.03	
For >50 To 100, Add	4.09	
For >500 To 1,000, Deduct	-4.09	
For >1,000, Deduct	-7.25	
32 16 13 19-0006 LF 4' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	50.75	
For Up To 20, Add	20.57	
For >20 To 50, Add	11.33	
For >50 To 100, Add	4.62	
For >500 To 1,000, Deduct	-4.62	
For >1,000, Deduct	-8.20	
32 16 13 19-0007 LF 5' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	60.81	
For Up To 20, Add	23.88	
For >20 To 50, Add	13.11	
For >50 To 100, Add	5.38	
For >500 To 1,000, Deduct	-5.38	
For >1,000, Deduct	-9.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0008 LF 6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	70.60	
<i>For Up To 20, Add</i>	26.99	
<i>For &gt;20 To 50, Add</i>	14.78	
<i>For &gt;50 To 100, Add</i>	6.10	
<i>For &gt;500 To 1,000, Deduct</i>	-6.10	
<i>For &gt;1,000, Deduct</i>	-10.92	
32 16 13 19-0009 SF >6' Wide Cast In Place Concrete Valley Gutter, 6" Thick.....	11.76	
<i>For Up To 100, Add</i>	4.49	
<i>For &gt;100 To 250, Add</i>	2.46	
<i>For &gt;250 To 500, Add</i>	1.02	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.02	
<i>For &gt;5,000, Deduct</i>	-1.82	
32 16 13 19-0010 LF 2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	29.41	
<i>For Up To 20, Add</i>	11.98	
<i>For &gt;20 To 50, Add</i>	6.60	
<i>For &gt;50 To 100, Add</i>	2.69	
<i>For &gt;500 To 1,000, Deduct</i>	-2.69	
<i>For &gt;1,000, Deduct</i>	-4.77	
32 16 13 19-0011 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	36.40	
<i>For Up To 20, Add</i>	14.73	
<i>For &gt;20 To 50, Add</i>	8.11	
<i>For &gt;50 To 100, Add</i>	3.31	
<i>For &gt;500 To 1,000, Deduct</i>	-3.31	
<i>For &gt;1,000, Deduct</i>	-5.87	
32 16 13 19-0012 LF 3' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	42.95	
<i>For Up To 20, Add</i>	17.16	
<i>For &gt;20 To 50, Add</i>	9.44	
<i>For &gt;50 To 100, Add</i>	3.86	
<i>For &gt;500 To 1,000, Deduct</i>	-3.86	
<i>For &gt;1,000, Deduct</i>	-6.87	
32 16 13 19-0013 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	49.68	
<i>For Up To 20, Add</i>	19.72	
<i>For &gt;20 To 50, Add</i>	10.84	
<i>For &gt;50 To 100, Add</i>	4.44	
<i>For &gt;500 To 1,000, Deduct</i>	-4.44	
<i>For &gt;1,000, Deduct</i>	-7.90	
32 16 13 19-0014 LF 4' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	56.40	
<i>For Up To 20, Add</i>	22.28	
<i>For &gt;20 To 50, Add</i>	12.24	
<i>For &gt;50 To 100, Add</i>	5.02	
<i>For &gt;500 To 1,000, Deduct</i>	-5.02	
<i>For &gt;1,000, Deduct</i>	-8.94	
32 16 13 19-0015 LF 5' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	67.74	
<i>For Up To 20, Add</i>	25.91	
<i>For &gt;20 To 50, Add</i>	14.19	
<i>For &gt;50 To 100, Add</i>	5.86	
<i>For &gt;500 To 1,000, Deduct</i>	-5.86	
<i>For &gt;1,000, Deduct</i>	-10.48	
32 16 13 19-0016 LF 6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	78.78	
<i>For Up To 20, Add</i>	29.34	
<i>For &gt;20 To 50, Add</i>	16.03	
<i>For &gt;50 To 100, Add</i>	6.66	
<i>For &gt;500 To 1,000, Deduct</i>	-6.66	
<i>For &gt;1,000, Deduct</i>	-11.95	
32 16 13 19-0017 SF >6' Wide Cast In Place Concrete Valley Gutter, 7" Thick.....	13.13	
<i>For Up To 100, Add</i>	4.89	
<i>For &gt;100 To 250, Add</i>	2.67	
<i>For &gt;250 To 500, Add</i>	1.11	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.11	
<i>For &gt;5,000, Deduct</i>	-1.99	
32 16 13 19-0018 LF 2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	29.36	
<i>For Up To 20, Add</i>	12.29	
<i>For &gt;20 To 50, Add</i>	6.79	
<i>For &gt;50 To 100, Add</i>	2.75	
<i>For &gt;500 To 1,000, Deduct</i>	-2.75	
<i>For &gt;1,000, Deduct</i>	-4.86	
32 16 13 19-0019 LF 2-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	36.13	
<i>For Up To 20, Add</i>	14.97	
<i>For &gt;20 To 50, Add</i>	8.26	
<i>For &gt;50 To 100, Add</i>	3.35	
<i>For &gt;500 To 1,000, Deduct</i>	-3.35	
<i>For &gt;1,000, Deduct</i>	-5.94	
32 16 13 19-0020 LF 3' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	42.81	
<i>For Up To 20, Add</i>	17.58	
<i>For &gt;20 To 50, Add</i>	9.69	
<i>For &gt;50 To 100, Add</i>	3.94	
<i>For &gt;500 To 1,000, Deduct</i>	-3.94	
<i>For &gt;1,000, Deduct</i>	-6.99	
32 16 13 19-0021 LF 3-1/2' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	49.50	
<i>For Up To 20, Add</i>	20.20	
<i>For &gt;20 To 50, Add</i>	11.13	
<i>For &gt;50 To 100, Add</i>	4.53	
<i>For &gt;500 To 1,000, Deduct</i>	-4.53	
<i>For &gt;1,000, Deduct</i>	-8.04	

**32 Exterior Improvements**

**32 10 Bases, Ballasts, and Paving**

**32 16 Curbs, Gutters, Sidewalks, and Driveways**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 13 19-0022	LF		4' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	56.20	
			<i>For Up To 20, Add</i>	22.82	
			<i>For &gt;20 To 50, Add</i>	12.57	
			<i>For &gt;50 To 100, Add</i>	5.13	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.13	
			<i>For &gt;1,000, Deduct</i>	-9.09	
32 16 13 19-0023	LF		5' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	67.35	
32 16 13 19-0024	LF		6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	78.16	
32 16 13 19-0025	SF		>6' Wide Cast In Place Concrete Valley Gutter, 8" Thick.....	13.03	
			<i>For Up To 100, Add</i>	4.99	
			<i>For &gt;100 To 250, Add</i>	2.73	
			<i>For &gt;250 To 500, Add</i>	1.13	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-1.13	
			<i>For &gt;5,000, Deduct</i>	-2.02	
<b>32 16 13 23 Precast Concrete Curbs and Gutters (32 16 13)</b>					
32 16 13 23-0001	LF		6" x 18" Precast Concrete Curb.....	51.63	9.91
32 16 13 23-0002	LF		6" x 18" Precast Concrete Curb, Radius.....	62.32	11.40
32 16 13 23-0003	LF		6" x 20" Precast Concrete Curb.....	55.26	9.91
32 16 13 23-0004	LF		6" x 20" Precast Concrete Curb, Radius.....	67.13	11.40
32 16 13 23-0005	LF		7" x 18" Precast Concrete Curb.....	56.92	9.91
32 16 13 23-0006	LF		7" x 18" Precast Concrete Curb, Radius.....	69.05	11.40
32 16 13 23-0007	LF		7" x 20" Precast Concrete Curb.....	61.05	9.91
32 16 13 23-0008	LF		7" x 20" Precast Concrete Curb, Radius.....	74.27	11.40
<b>32 16 13 33 Asphalt Curbs (32 16 13)</b>					
32 16 13 33-0001			<b>Asphalt Curbs (32 16 13 33)</b>		
32 16 13 33-0002	LF		6" Wide x 6" High Asphalt Curb 64 LF/TON, Bituminous, Plain.....	13.37	5.41
32 16 13 33-0003	LF		8" Wide x 6" High Asphalt Curb 50 LF/TON, Bituminous, Plain.....	15.05	6.01
32 16 13 33-0004	LF		8" Wide x 8" High Asphalt Curb 44 LF/TON, Bituminous, Plain.....	16.61	6.61
<b>32 16 13 43 Stone Curbs (32 16 13)</b>					
32 16 13 43-0001			<b>Remove And Reset Stone And Precast Curbing (32 16 13 43)</b>		
			Note: Includes storage and cleaning.		
32 16 13 43-0002	LF		Removal And Resetting Of Stone Or Precast Curbing.....	38.23	
			Note: Includes storage and cleaning.		
<b>32 16 23 Sidewalks (32 16)</b>					
32 16 23 00-0001			<b>Cast In Place Concrete Sidewalk Assemblies (32 16 23)</b>		
			Note: Includes finish grading, delivered concrete (up to 3500 PSI) by chute, formwork, 1/4" radius joints and edges, polyethylene sheeting, control joints, expansion joints, screed, broom finish, and curing. Excludes excavation, base, base compaction and welded wire reinforcement. For bar or fiber reinforcing, add bar or fiber reinforcing tasks. See CSI section 02 41 13 13-0000 for sidewalk removal, 03 05 13 00-0001 for color additive, 03 21 00 00-0000 for reinforcing steel, 03 31 13 00-0079 for buggies, 03 31 13 00-0086 for small quantity purchases, 03 37 16 00-0001 for pumping with boom truck, 31 23 16 36-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0002	SF		4" Cast In Place Concrete Sidewalk.....	9.88	
			<i>For Up To 100, Add</i>	4.07	
			<i>For &gt;100 To 500, Add</i>	1.13	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.64	
			<i>For &gt;5,000, Deduct</i>	-1.45	
			<i>For Welded Wire Reinforcement, Add</i>	0.98	
32 16 23 00-0003	SF		5" Cast In Place Concrete Sidewalk.....	10.91	
			<i>For Up To 100, Add</i>	4.38	
			<i>For &gt;100 To 500, Add</i>	1.21	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.66	
			<i>For &gt;5,000, Deduct</i>	-1.54	
			<i>For Welded Wire Reinforcement, Add</i>	0.98	
32 16 23 00-0004	SF		6" Cast In Place Concrete Sidewalk.....	11.95	
			<i>For Up To 100, Add</i>	4.70	
			<i>For &gt;100 To 500, Add</i>	1.28	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.69	
			<i>For &gt;5,000, Deduct</i>	-1.63	
			<i>For Welded Wire Reinforcement, Add</i>	0.98	
32 16 23 00-0005	SF		7" Cast In Place Concrete Sidewalk.....	13.91	
			<i>For Up To 100, Add</i>	5.42	
			<i>For &gt;100 To 500, Add</i>	1.47	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.78	
			<i>For &gt;5,000, Deduct</i>	-1.86	
			<i>For Welded Wire Reinforcement, Add</i>	0.98	
32 16 23 00-0006	SF		8" Cast In Place Concrete Sidewalk.....	14.85	
			<i>For Up To 100, Add</i>	5.69	
			<i>For &gt;100 To 500, Add</i>	1.53	
			<i>For &gt;1,000 To 5,000, Deduct</i>	-0.79	
			<i>For &gt;5,000, Deduct</i>	-1.93	
			<i>For Welded Wire Reinforcement, Add</i>	0.98	
32 16 23 00-0007	SF		For Exposed Aggregate Finish In Sidewalk.....	2.53	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 16 23 00-0008 EA Finish Concrete Handicap Drop Section In Sidewalk.....	151.59	
Note: Excludes patterned (tactile) finish.		
32 16 23 00-0009 LF For Hand Trowel Finish At Sidewalk Edges (Picture Frame).....	2.53	
<b>32 16 23 00-0010 Bituminous Sidewalk Assemblies</b> <small>(32 16 23)</small>		
Note: Includes finish grading, delivered asphalt, formwork, control joints, expansion joints, and compaction. Excludes excavation, base, and base compaction. See CSI section 31 00 00 00-0000 for excavation, 31 23 16 00-0000 for excavation, 32 11 23 16-0001 for base course.		
32 16 23 00-0011 SY 1" Bituminous Sidewalk .....	9.79	
For Up To 100, Add	3.60	
For >100 To 500, Add	0.95	
For >1,000 To 5,000, Deduct	-0.46	
For >5,000, Deduct	-0.95	
32 16 23 00-0012 SY 1-1/2" Bituminous Sidewalk .....	12.33	
For Up To 100, Add	4.47	
For >100 To 500, Add	1.17	
For >1,000 To 5,000, Deduct	-0.55	
For >5,000, Deduct	-1.17	
32 16 23 00-0013 SY 2" Bituminous Sidewalk .....	17.21	
For Up To 100, Add	6.02	
For >100 To 500, Add	1.55	
For >1,000 To 5,000, Deduct	-0.69	
For >5,000, Deduct	-1.55	
32 16 23 00-0014 SY 2-1/2" Bituminous Sidewalk .....	21.52	
For Up To 100, Add	7.51	
For >100 To 500, Add	1.93	
For >1,000 To 5,000, Deduct	-0.85	
For >5,000, Deduct	-1.93	
32 16 23 00-0015 SY 3" Bituminous Sidewalk .....	24.85	
For Up To 100, Add	8.52	
For >100 To 500, Add	2.16	
For >1,000 To 5,000, Deduct	-0.92	
For >5,000, Deduct	-2.16	
32 16 23 00-0016 SY 3-1/2" Bituminous Sidewalk .....	28.76	
For Up To 100, Add	9.72	
For >100 To 500, Add	2.45	
For >1,000 To 5,000, Deduct	-1.01	
For >5,000, Deduct	-2.45	
<b>32 16 43 Asphalt Dike</b> <small>(32 16 43)</small>		
<b>32 16 43 00-0001 Asphalt Dike</b> <small>(32 16 43)</small>		
32 16 43 00-0002 LF Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	7.24	
32 16 43 00-0003 LF Type B, Asphalt Dike, 13" Base, 5" Top, 8" Height.....	9.97	
32 16 43 00-0004 LF Type C-6, Asphalt Dike, 18" Base, 6" Top, 6" Height.....	9.97	
32 16 43 00-0005 LF Type C-8, Asphalt Dike, 22" Base, 6" Top, 8" Height.....	14.30	
32 16 43 00-0006 LF Type C-9, Asphalt Dike, 24" Base, 6" Top, 9" Height.....	16.95	
32 16 43 00-0007 LF Type D, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.75	
32 16 43 00-0008 LF Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back .....	10.36	
32 16 43 00-0009 LF Type F, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back.....	15.99	
32 16 43 00-0010 LF CALTRANS Type A, Asphalt Dike, 11" Base, 5" Top, 6" Height.....	7.24	
32 16 43 00-0011 LF CALTRANS Type C, Asphalt Dike, 8" Base, 4" Top, 2" Height.....	3.75	
32 16 43 00-0012 LF CALTRANS Type D, Mountable Asphalt Dike, 26" Base, 20" Top, 2" Height Front, 8" Height Back .....	15.99	
32 16 43 00-0013 LF CALTRANS Type E, Mountable Asphalt Dike, 16" Base, 12" Top, 2" Height Front, 6" Height Back .....	10.36	
32 16 43 00-0014 LF CALTRANS Type F, Asphalt Dike, 8" Base, 4" Top, 4" Height.....	5.51	
<b>32 17 Paving Specialties</b> <small>(32 10)</small>		
<b>32 17 13 Parking Bumpers</b> <small>(32 17)</small>		
Note: Includes dowels set.		
<b>32 17 13 16 Plastic Parking Bumpers</b> <small>(32 17 13)</small>		
32 17 13 16-0001 EA 4" x 6" x 4' Recycled Plastic Wheel Stop .....	182.36	7.02
32 17 13 16-0002 EA 4" x 6" x 6' Recycled Plastic Wheel Stop .....	206.69	7.02
<b>32 17 13 19 Precast Concrete Parking Bumpers</b> <small>(32 17 13)</small>		
32 17 13 19-0001 EA 6" x 8" x 4' Precast Concrete Wheel Stop With Dowels .....	68.13	21.12
32 17 13 19-0002 EA 6" x 6" x 6' Precast Concrete Wheel Stop With Dowels .....	78.08	21.12
32 17 13 19-0003 EA 6" x 8" x 6' Precast Concrete Wheel Stop With Dowels.....	81.08	21.12
32 17 13 19-0004 EA 6" x 10" x 6' Precast Concrete Wheel Stop With Dowels .....	84.95	21.12
32 17 13 19-0005 EA 4-7/8" x 7-5/8" x 6' Precast Concrete Wheel Stop With Dowels.....	79.20	21.12
32 17 13 19-0006 EA 8" x 13" x 6' Precast Concrete Wheel Stop With Dowels .....	100.53	21.12
32 17 13 19-0007 EA Removal And Relocation Of Precast Concrete Wheel Stop .....	33.80	
32 17 13 19-0008 EA Removal And Relocation Of Plastic Or Wood Wheel Stop .....	21.98	
<b>32 17 13 23 Rubber Parking Bumpers</b> <small>(32 17 13)</small>		
32 17 13 23-0001 EA 3' Recycled Rubber Wheel Stop .....	30.63	7.02
32 17 13 23-0002 EA 4' Recycled Rubber Wheel Stop .....	35.78	7.02

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 13 23-0003 EA 5' Recycled Rubber Wheel Stop .....	37.84	7.02
32 17 13 23-0004 EA 6' Recycled Rubber Wheel Stop .....	40.93	7.02
<b>32 17 13 26 Wood Parking Bumpers (32 17 13)</b>		
32 17 13 26-0001 LF 4" x 4" Timber Barrier With Saddles For Cars, Pressure Treated .....	10.35	1.69
32 17 13 26-0002 LF 6" x 6" Timber Barriers With Saddle For Trucks, Pressure Treated .....	13.85	1.69
<b>32 17 16 Manufactured Traffic-Calming Devices (32 17)</b>		
<b>32 17 16 00-0001 Speed Bumps (32 17 16)</b>		
Note: Excludes pavement markings or reflectors.		
32 17 16 00-0002 LF 2-1/4" High x 10-1/2" Wide, Asphalt Speed Bump .....	39.21	1.91
32 17 16 00-0003 LF 3-1/2" High x 12" Wide, Asphalt Speed Bump .....	61.89	
Note: Excludes striping.		
32 17 16 00-0004 LF 2-1/4" High x 12" Wide, Recycled Rubber Speed Bump .....	30.66	1.27
32 17 16 00-0005 LF 2-5/8" High x 12" Wide, Recycled Plastic Speed Bump .....	185.79	1.27
<b>32 17 16 00-0006 Modular Rubber Speed Tables (32 17 16)</b>		
Note: 3" high flat topped speed humps, 18" x 42" modular rubber construction. Trafficlogix.		
32 17 16 00-0007 SF Up To 24' Road Width x 7' Run Modular Rubber Speed Table .....	67.61	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0008 SF Up To 24' Road Width x 14' Run Modular Rubber Speed Table .....	59.06	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0009 SF Up To 24' Road Width x 21' Run Modular Rubber Speed Table .....	55.44	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0010 SF >24' To 30' Road Width x 7' Run Modular Rubber Speed Table .....	64.69	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0011 SF >24' To 30' Road Width x 14' Run Modular Rubber Speed Table .....	56.91	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0012 SF >24' To 30' Road Width x 21' Run Modular Rubber Speed Table .....	53.70	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0013 SF >30' To 40' Road Width x 7' Run Modular Rubber Speed Table .....	61.79	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0014 SF >30' To 40' Road Width x 14' Run Modular Rubber Speed Table .....	55.20	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
32 17 16 00-0015 SF >30' To 40' Road Width x 21' Run Modular Rubber Speed Table .....	52.26	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
<b>32 17 16 00-0016 Asphalt Speed Table (32 17 16)</b>		
Note: Excludes pavement markings or reflectors.		
32 17 16 00-0017 LF Up To 36" Run, Asphalt Speed Table With 3" Center Crown .....	36.36	
Note: Tapered on edges to roadway.		
32 17 16 00-0018 LF >36" To 48" Run, Asphalt Speed Table With 3" Center Crown .....	42.94	
Note: Tapered on edges to roadway.		
32 17 16 00-0019 LF Up To 36" Run, Asphalt Speed Table With 4" Center Crown .....	45.70	
Note: Tapered on edges to roadway.		
32 17 16 00-0020 LF >36" To 48" Run, Asphalt Speed Table With 4" Center Crown .....	54.03	
Note: Tapered on edges to roadway.		
32 17 16 00-0021 LF Up To 36" Run, Asphalt Speed Table With 6" Center Crown .....	55.70	
Note: Tapered on edges to roadway.		
32 17 16 00-0022 LF >36" To 48" Run, Asphalt Speed Table With 6" Center Crown .....	62.29	
Note: Tapered on edges to roadway.		
<b>32 17 16 00-0023 Concrete Speed Table (32 17 16)</b>		
32 17 16 00-0024 SF Concrete Speed Table .....	15.89	
Note: Includes drilling in pavement, lag bolts and 3" x 18" x 42" compression molded recycled synthetic and natural rubber composite modular panels.		
<b>32 17 23 Pavement Markings (32 17)</b>		
See CSI section 01 55 26 00-0000 for temporary markings and removable line mask tape.		
<b>32 17 23 13 Painted Pavement Markings (32 17 23)</b>		
<b>32 17 23 13-0001 Painted Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23)</b>		
Note: Includes primers, adhesive and glass beads where required. For broken line quantities use total lane length. Per Coat.		
<b>32 17 23 13-0002 Alkyd/Solvent Based/Latex Reflective Pavement Marking (32 17 23 13-0001)</b>		
Note: 15 mil thickness.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0003 LF Single 4" Wide Solid Line, Painted Reflective Pavement Striping.....	0.34	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For &gt;25,000 LF, Deduct</i>	-0.05	
<i>For Broken Line, Deduct</i>	-0.07	
32 17 23 13-0004 LF Single 6" Wide Solid Line, Painted Reflective Pavement Striping.....	0.43	
<i>For Up To 5,000 LF, Add</i>	0.09	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
<i>For Broken Line, Deduct</i>	-0.10	
32 17 23 13-0005 LF Single 8" Wide Solid Line, Painted Reflective Pavement Striping.....	0.55	
<i>For Up To 5,000 LF, Add</i>	0.11	
<i>For &gt;25,000 LF, Deduct</i>	-0.08	
<i>For Broken Line, Deduct</i>	-0.12	
32 17 23 13-0006 LF Single 12" Wide Solid Line, Painted Reflective Pavement Striping.....	0.73	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For &gt;25,000 LF, Deduct</i>	-0.11	
<i>For Broken Line, Deduct</i>	-0.18	
32 17 23 13-0007 LF Double 4" Wide Solid Lines, Painted Reflective Pavement Striping .....	0.49	
<i>For Up To 5,000 LF, Add</i>	0.10	
<i>For &gt;25,000 LF, Deduct</i>	-0.07	
<i>For Broken Line On One Side, Deduct</i>	-0.06	
<i>For Double Broken Line, Deduct</i>	-0.12	
32 17 23 13-0008 LF Double 6" Wide Solid Lines, Painted Reflective Pavement Striping .....	0.73	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For &gt;25,000 LF, Deduct</i>	-0.11	
<i>For Broken Line On One Side, Deduct</i>	-0.09	
<i>For Double Broken Line, Deduct</i>	-0.18	
32 17 23 13-0009 SF Solid Area, Painted Reflective Pavement Striping .....	6.19	
Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0010 EA 6" High, Letter/Number, Painted Reflective Pavement Striping .....	4.48	
<i>For &lt;10, Add</i>	0.61	
<i>For &gt;50 To 100, Deduct</i>	-0.30	
<i>For &gt;100 To 200, Deduct</i>	-0.41	
<i>For &gt;200, Deduct</i>	-0.81	
32 17 23 13-0011 EA 12" High, Letter/Number, Painted Reflective Pavement Striping .....	7.67	
<i>For &lt;10, Add</i>	0.92	
<i>For &gt;50 To 100, Deduct</i>	-0.46	
<i>For &gt;100 To 200, Deduct</i>	-0.62	
<i>For &gt;200, Deduct</i>	-1.23	
32 17 23 13-0012 EA 24" High, Letter/Number, Painted Reflective Pavement Striping .....	12.88	
<i>For &lt;10, Add</i>	1.53	
<i>For &gt;50 To 100, Deduct</i>	-0.77	
<i>For &gt;100 To 200, Deduct</i>	-1.02	
<i>For &gt;200, Deduct</i>	-2.04	
32 17 23 13-0013 EA 36" High, Letter/Number, Painted Reflective Pavement Striping .....	25.09	
<i>For &lt;10, Add</i>	3.06	
<i>For &gt;50 To 100, Deduct</i>	-1.53	
<i>For &gt;100 To 200, Deduct</i>	-2.04	
<i>For &gt;200, Deduct</i>	-4.08	
32 17 23 13-0014 EA 48" High, Letter/Number, Painted Reflective Pavement Striping .....	28.99	
<i>For &lt;10, Add</i>	3.44	
<i>For &gt;50 To 100, Deduct</i>	-1.72	
<i>For &gt;100 To 200, Deduct</i>	-2.29	
<i>For &gt;200, Deduct</i>	-4.58	
32 17 23 13-0015 EA 72" High, Letter/Number, Painted Reflective Pavement Striping .....	51.85	
<i>For &lt;10, Add</i>	6.11	
<i>For &gt;50 To 100, Deduct</i>	-3.06	
<i>For &gt;100 To 200, Deduct</i>	-4.08	
<i>For &gt;200, Deduct</i>	-8.15	
32 17 23 13-0016 EA 96" High, Letter/Number, Painted Reflective Pavement Striping .....	69.34	
<i>For &lt;10, Add</i>	8.21	
<i>For &gt;50 To 100, Deduct</i>	-4.10	
<i>For &gt;100 To 200, Deduct</i>	-5.47	
<i>For &gt;200, Deduct</i>	-10.95	
32 17 23 13-0017 EA 120" High, Letter/Number, Painted Reflective Pavement Striping .....	100.42	
<i>For &lt;10, Add</i>	10.17	
<i>For &gt;50 To 100, Deduct</i>	-5.09	
<i>For &gt;100 To 200, Deduct</i>	-6.78	
<i>For &gt;200, Deduct</i>	-13.56	
32 17 23 13-0018 SF Letter/Number, Painted Reflective Pavement Marking .....	7.20	
32 17 23 13-0019 SF Symbols, Painted Reflective Pavement Marking .....	8.58	
Note: Handicap, railroad, diamond, arrows, etc.		
<b>32 17 23 13-0020 Painted Reflective Pavement Marking (CALTRANS) (32 17 23 13-0001)</b>		
Note: Per LF of detail.		
32 17 23 13-0021 LF CALTRANS Detail 1 Centerline, Painted Reflective Pavement Striping .....	0.28	
<i>For Up To 5,000 LF, Add</i>	0.06	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0022 LF CALTRANS Detail 2 Centerline, Painted Reflective Pavement Striping .....	0.41	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
32 17 23 13-0023 LF CALTRANS Detail 4 Centerline .....	0.74	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For &gt;25,000 LF, Deduct</i>	-0.11	

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0024 LF CALTRANS Detail 5 Centerline, Painted Reflective Pavement Striping .....	0.27	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0025 LF CALTRANS Detail 6 Centerline, Painted Reflective Pavement Striping .....	0.42	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0026 LF CALTRANS Detail 7 Centerline .....	0.53	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
32 17 23 13-0027 LF CALTRANS Detail 8 Lanelines, Painted Reflective Pavement Striping .....	0.28	
For Up To 5,000 LF, Add	0.06	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0028 LF CALTRANS Detail 9 Lanelines, Painted Reflective Pavement Striping .....	0.41	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0029 LF CALTRANS Detail 10 Lanelines .....	0.74	
For Up To 5,000 LF, Add	0.15	
For >25,000 LF, Deduct	-0.11	
32 17 23 13-0030 LF CALTRANS Detail 11 Lanelines, Painted Reflective Pavement Striping .....	0.27	
For Up To 5,000 LF, Add	0.05	
For >25,000 LF, Deduct	-0.04	
32 17 23 13-0031 LF CALTRANS Detail 12 Lanelines, Painted Reflective Pavement Striping .....	0.41	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0032 LF CALTRANS Detail 13 Lanelines .....	0.53	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
32 17 23 13-0033 LF CALTRANS Detail 14 Lanelines .....	0.53	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.08	
32 17 23 13-0034 LF CALTRANS Detail 14A Lanelines, Painted Reflective Pavement Striping .....	0.41	
For Up To 5,000 LF, Add	0.08	
For >25,000 LF, Deduct	-0.06	
32 17 23 13-0035 LF CALTRANS Detail 15 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping .....	0.37	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.06	
For Broken Line On One Side, Deduct	-0.05	
For Double Broken Line, Deduct	-0.09	
32 17 23 13-0036 LF CALTRANS Detail 16 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping .....	0.90	
For Up To 5,000 LF, Add	0.18	
For >25,000 LF, Deduct	-0.14	
32 17 23 13-0037 LF CALTRANS Detail 17 No Passing Zones-One Direction Lanelines .....	2.14	
For Up To 5,000 LF, Add	0.43	
For >25,000 LF, Deduct	-0.32	
32 17 23 13-0038 LF CALTRANS Detail 18 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping .....	0.37	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.06	
For Broken Line On One Side, Deduct	-0.05	
For Double Broken Line, Deduct	-0.09	
32 17 23 13-0039 LF CALTRANS Detail 19 No Passing Zones-One Direction Lanelines, Painted Reflective Pavement Striping .....	0.76	
For Up To 5,000 LF, Add	0.15	
For >25,000 LF, Deduct	-0.11	
32 17 23 13-0040 LF CALTRANS Detail 20 No Passing Zones-One Direction Lanelines .....	1.81	
For Up To 5,000 LF, Add	0.36	
For >25,000 LF, Deduct	-0.27	
32 17 23 13-0041 LF CALTRANS Detail 21 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping .....	0.44	
For Up To 5,000 LF, Add	0.09	
For >25,000 LF, Deduct	-0.07	
For Broken Line On One Side, Deduct	-0.07	
For Double Broken Line, Deduct	-0.14	
32 17 23 13-0042 LF CALTRANS Detail 22 No Passing Zones-Two Direction Lanelines, Painted Reflective Pavement Striping .....	0.97	
For Up To 5,000 LF, Add	0.19	
For >25,000 LF, Deduct	-0.15	
32 17 23 13-0043 LF CALTRANS Detail 23 No Passing Zones-Two Direction Lanelines .....	2.55	
For Up To 5,000 LF, Add	0.51	
For >25,000 LF, Deduct	-0.38	
32 17 23 13-0044 LF CALTRANS Detail 24 Left Edgelines, Painted Reflective Pavement Striping .....	0.35	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	
32 17 23 13-0045 LF CALTRANS Detail 25 Left Edgelines, Painted Reflective Pavement Striping .....	0.48	
For Up To 5,000 LF, Add	0.10	
For >25,000 LF, Deduct	-0.07	
32 17 23 13-0046 LF CALTRANS Detail 25A Left Edgelines, Painted Reflective Pavement Striping .....	0.60	
For Up To 5,000 LF, Add	0.12	
For >25,000 LF, Deduct	-0.09	
32 17 23 13-0047 LF CALTRANS Detail 26 Left Edgelines .....	0.13	
For Up To 5,000 LF, Add	0.03	
For >25,000 LF, Deduct	-0.02	
32 17 23 13-0048 LF CALTRANS Detail 27 Left Edgelines, Painted Reflective Pavement Striping .....	0.57	
For Up To 5,000 LF, Add	0.11	
For >25,000 LF, Deduct	-0.09	
32 17 23 13-0049 LF CALTRANS Detail 27B Right Edgelines, Painted Reflective Pavement Striping .....	0.35	
For Up To 5,000 LF, Add	0.07	
For >25,000 LF, Deduct	-0.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0050 LF CALTRANS Detail 27C Right Edgeline Extension Through Intersections, Painted Reflective Pavement Striping .....	0.27	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0051 LF CALTRANS Detail 28 Median Islands, Painted Reflective Pavement Striping .....	0.87	
<i>For Up To 5,000 LF, Add</i>	0.17	
<i>For &gt;25,000 LF, Deduct</i>	-0.13	
<i>For Broken Line On One Side, Deduct</i>	-0.14	
<i>For Double Broken Line, Deduct</i>	-0.29	
32 17 23 13-0052 LF CALTRANS Detail 29 Median Islands, Painted Reflective Pavement Striping .....	1.41	
<i>For Up To 5,000 LF, Add</i>	0.28	
<i>For &gt;25,000 LF, Deduct</i>	-0.21	
32 17 23 13-0053 LF CALTRANS Detail 30 Median Islands .....	5.11	
<i>For Up To 5,000 LF, Add</i>	1.02	
<i>For &gt;25,000 LF, Deduct</i>	-0.77	
32 17 23 13-0054 LF CALTRANS Detail 31 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping .....	0.73	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For &gt;25,000 LF, Deduct</i>	-0.11	
<i>For Broken Line On One Side, Deduct</i>	-0.09	
<i>For Double Broken Line, Deduct</i>	-0.18	
32 17 23 13-0055 LF CALTRANS Detail 32 Two-Way Left Turn Lanes, Painted Reflective Pavement Striping .....	1.39	
<i>For Up To 5,000 LF, Add</i>	0.28	
<i>For &gt;25,000 LF, Deduct</i>	-0.21	
32 17 23 13-0056 LF CALTRANS Detail 33 Two-Way Left Turn Lanes .....	3.50	
<i>For Up To 5,000 LF, Add</i>	0.70	
<i>For &gt;25,000 LF, Deduct</i>	-0.53	
32 17 23 13-0057 LF CALTRANS Detail 34 Intersection Treatments, Painted Reflective Pavement Striping .....	0.76	
<i>For Up To 5,000 LF, Add</i>	0.15	
<i>For &gt;25,000 LF, Deduct</i>	-0.11	
32 17 23 13-0058 LF CALTRANS Detail 34A Intersection Treatments, Painted Reflective Pavement Striping.....	0.37	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
32 17 23 13-0059 LF CALTRANS Detail 35 Intersection Treatments, Painted Reflective Pavement Striping .....	0.90	
<i>For Up To 5,000 LF, Add</i>	0.18	
<i>For &gt;25,000 LF, Deduct</i>	-0.14	
32 17 23 13-0060 LF CALTRANS Detail 35A Intersection Treatments, Painted Reflective Pavement Striping.....	0.37	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
32 17 23 13-0061 LF CALTRANS Detail 36 Exit Ramp Neutral Area (Gore) Treatment, Painted Reflective Pavement Striping .....	1.61	
<i>For Up To 5,000 LF, Add</i>	0.32	
<i>For &gt;25,000 LF, Deduct</i>	-0.24	
32 17 23 13-0062 LF CALTRANS Detail 36A Entrance Ramp Neutral Area (Merge) Treatment, Painted Reflective Pavement Striping .....	1.06	
<i>For Up To 5,000 LF, Add</i>	0.21	
<i>For &gt;25,000 LF, Deduct</i>	-0.16	
32 17 23 13-0063 LF CALTRANS Detail 36B Entrance Ramp Neutral Area (Acceleration Lane) Treatment, Painted Reflective Pavement Striping .....	1.14	
<i>For Up To 5,000 LF, Add</i>	0.23	
<i>For &gt;25,000 LF, Deduct</i>	-0.17	
32 17 23 13-0064 LF CALTRANS Detail 37 Lane Drop At Exit Ramps, Painted Reflective Pavement Striping .....	0.98	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For &gt;25,000 LF, Deduct</i>	-0.15	
32 17 23 13-0065 LF CALTRANS Detail 37A Lane Drop At Exit Ramps.....	1.72	
<i>For Up To 5,000 LF, Add</i>	0.34	
<i>For &gt;25,000 LF, Deduct</i>	-0.26	
32 17 23 13-0066 LF CALTRANS Detail 37B Lane Drop At Intersections, Painted Reflective Pavement Striping.....	0.98	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For &gt;25,000 LF, Deduct</i>	-0.15	
32 17 23 13-0067 LF CALTRANS Detail 37C Lane Drop At Intersections.....	1.72	
<i>For Up To 5,000 LF, Add</i>	0.34	
<i>For &gt;25,000 LF, Deduct</i>	-0.26	
32 17 23 13-0068 LF CALTRANS Detail 38 Channelizing Line, Painted Reflective Pavement Striping .....	0.96	
<i>For Up To 5,000 LF, Add</i>	0.19	
<i>For &gt;25,000 LF, Deduct</i>	-0.14	
32 17 23 13-0069 LF CALTRANS Detail 38A Channelizing Line, Painted Reflective Pavement Striping.....	0.69	
<i>For Up To 5,000 LF, Add</i>	0.14	
<i>For &gt;25,000 LF, Deduct</i>	-0.10	
32 17 23 13-0070 LF CALTRANS Detail 38B Channelizing Line, Painted Reflective Pavement Striping.....	1.22	
<i>For Up To 5,000 LF, Add</i>	0.24	
<i>For &gt;25,000 LF, Deduct</i>	-0.18	
32 17 23 13-0071 LF CALTRANS Detail 38C Channelizing Line .....	2.55	
<i>For Up To 5,000 LF, Add</i>	0.51	
<i>For &gt;25,000 LF, Deduct</i>	-0.38	
32 17 23 13-0072 LF CALTRANS Detail 39 Bike Lane Line, Painted Reflective Pavement Striping .....	0.42	
<i>For Up To 5,000 LF, Add</i>	0.08	
<i>For &gt;25,000 LF, Deduct</i>	-0.06	
32 17 23 13-0073 LF CALTRANS Detail 39A Intersection Line Bike Lane, Painted Reflective Pavement Striping .....	0.34	
<i>For Up To 5,000 LF, Add</i>	0.07	
<i>For &gt;25,000 LF, Deduct</i>	-0.05	
32 17 23 13-0074 LF CALTRANS Detail 40 Lane Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.26	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	
32 17 23 13-0075 LF CALTRANS Detail 40A Lane Line Extensions Through Intersections .....	1.22	
<i>For Up To 5,000 LF, Add</i>	0.24	
<i>For &gt;25,000 LF, Deduct</i>	-0.18	
32 17 23 13-0076 LF CALTRANS Detail 41 Center Line Extensions Through Intersections, Painted Reflective Pavement Striping.....	0.26	
<i>For Up To 5,000 LF, Add</i>	0.05	
<i>For &gt;25,000 LF, Deduct</i>	-0.04	

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0077 LF CALTRANS Detail 41A Center Line Extensions Through Intersections.....	1.22	
For Up To 5,000 LF, Add	0.24	
For >25,000 LF, Deduct	-0.18	
32 17 23 13-0078 EA CALTRANS 10' Arrow, Type I, Painted Reflective Pavement Marking .....	114.49	
For <10, Add	14.87	
For >50 To 100, Deduct	-7.44	
For >100 To 200, Deduct	-9.92	
For >200, Deduct	-19.83	
32 17 23 13-0079 EA CALTRANS 18' Arrow, Type I, Painted Reflective Pavement Marking .....	200.88	
For <10, Add	26.03	
For >50 To 100, Deduct	-13.01	
For >100 To 200, Deduct	-17.35	
For >200, Deduct	-34.70	
32 17 23 13-0080 EA CALTRANS 24' Arrow, Type I, Painted Reflective Pavement Marking .....	252.08	
For <10, Add	32.72	
For >50 To 100, Deduct	-16.36	
For >100 To 200, Deduct	-21.81	
For >200, Deduct	-43.63	
32 17 23 13-0081 EA CALTRANS 24' Arrow With Single (L or R) Turn Arrow, Type II, Painted Reflective Pavement Marking .....	366.56	
For <10, Add	47.59	
For >50 To 100, Deduct	-23.80	
For >100 To 200, Deduct	-31.73	
For >200, Deduct	-63.46	
32 17 23 13-0082 EA CALTRANS 24' Arrow With Both (L and R) Turn Arrows, Type II, Painted Reflective Pavement Marking .....	481.04	
For <10, Add	62.47	
For >50 To 100, Deduct	-31.23	
For >100 To 200, Deduct	-41.64	
For >200, Deduct	-83.29	
32 17 23 13-0083 EA CALTRANS 24' Arrow Single (L or R) Turn Arrow, Type III, Painted Reflective Pavement Marking.....	338.49	
For <10, Add	43.88	
For >50 To 100, Deduct	-21.94	
For >100 To 200, Deduct	-29.25	
For >200, Deduct	-58.50	
32 17 23 13-0084 EA CALTRANS 24' Arrow Both (L and R) Turn Arrows, Type III, Painted Reflective Pavement Marking.....	590.57	
For <10, Add	76.60	
For >50 To 100, Deduct	-38.30	
For >100 To 200, Deduct	-51.06	
For >200, Deduct	-102.13	
32 17 23 13-0085 EA CALTRANS 8' Turn Arrow (L or R), Type IV, Painted Reflective Pavement Marking .....	120.53	
For <10, Add	15.62	
For >50 To 100, Deduct	-7.81	
For >100 To 200, Deduct	-10.41	
For >200, Deduct	-20.82	
32 17 23 13-0086 EA CALTRANS 24' Arrow, Type V, Painted Reflective Pavement Marking.....	264.18	
For <10, Add	34.21	
For >50 To 100, Deduct	-17.10	
For >100 To 200, Deduct	-22.81	
For >200, Deduct	-45.61	
32 17 23 13-0087 EA CALTRANS 18' Arrow, Type VI, Painted Reflective Pavement Marking.....	338.49	
For <10, Add	43.88	
For >50 To 100, Deduct	-21.94	
For >100 To 200, Deduct	-29.25	
For >200, Deduct	-58.50	
32 17 23 13-0088 EA CALTRANS 13' Arrow With Single (L or R) Turn Arrow, Type VII, Painted Reflective Pavement Marking .....	218.16	
For <10, Add	28.26	
For >50 To 100, Deduct	-14.13	
For >100 To 200, Deduct	-18.84	
For >200, Deduct	-37.68	
32 17 23 13-0089 EA CALTRANS 15' Arrow With Both (L and R) Turn Arrows, Type VIII, Painted Reflective Pavement Marking .....	287.30	
For <10, Add	37.18	
For >50 To 100, Deduct	-18.59	
For >100 To 200, Deduct	-24.79	
For >200, Deduct	-49.58	
32 17 23 13-0090 EA CALTRANS 5' Arrow, Bike Lane, Painted Reflective Pavement Marking .....	57.24	
For <10, Add	7.44	
For >50 To 100, Deduct	-3.72	
For >100 To 200, Deduct	-4.96	
For >200, Deduct	-9.92	
32 17 23 13-0091 EA CALTRANS Railroad Crossing Symbol, Painted Reflective Pavement Marking.....	547.62	
Note: Excludes variable width transverse lines.		
For <10, Add	70.65	
For >50 To 100, Deduct	-35.32	
For >100 To 200, Deduct	-47.10	
For >200, Deduct	-94.19	
32 17 23 13-0092 SF CALTRANS Solid Area, Painted Reflective Pavement Marking.....	7.15	
32 17 23 13-0093 EA CALTRANS Bike Lane Symbol Without Person, Painted Reflective Pavement Marking.....	53.87	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.36	
For >50 To 100, Deduct	-2.68	
For >100 To 200, Deduct	-3.57	
For >200, Deduct	-7.14	
32 17 23 13-0094 EA CALTRANS Bike Lane Symbol With Person, Painted Reflective Pavement Marking.....	57.07	
Note: Approximate overall dimensions: 4' width x 8' height.		
For <10, Add	5.65	
For >50 To 100, Deduct	-2.83	
For >100 To 200, Deduct	-3.77	
For >200, Deduct	-7.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0095 EA CALTRANS Diamond Symbol, Painted Reflective Pavement Marking.....	91.36	
<i>For &lt;10, Add</i>	11.90	
<i>For &gt;50 To 100, Deduct</i>	-5.95	
<i>For &gt;100 To 200, Deduct</i>	-7.93	
<i>For &gt;200, Deduct</i>	-15.86	
32 17 23 13-0096 EA CALTRANS International Symbol Of Accessibility (ISA) Marking, Painted Reflective Pavement Marking .....	185.80	
<i>For &lt;10, Add</i>	24.09	
<i>For &gt;50 To 100, Deduct</i>	-12.05	
<i>For &gt;100 To 200, Deduct</i>	-16.06	
<i>For &gt;200, Deduct</i>	-32.12	
32 17 23 13-0097 EA CALTRANS Bike Loop Detector Symbol, Painted Reflective Pavement Marking.....	39.78	
Note: Approximate overall dimensions: 4' width x 8' height.		
<i>For &lt;10, Add</i>	5.65	
<i>For &gt;50 To 100, Deduct</i>	-2.83	
<i>For &gt;100 To 200, Deduct</i>	-3.77	
<i>For &gt;200, Deduct</i>	-7.54	
32 17 23 13-0098 SF CALTRANS Letter/Number, Painted Reflective Pavement Marking .....	7.25	
32 17 23 13-0099 SF CALTRANS Symbols, Painted Reflective Pavement Marking .....	8.04	
Note: Handicap, railroad, diamond, arrows, etc.		
 <b>32 17 23 13-0100 Epoxy Reflective Pavement Marking (32 17 23 13-0001)</b>		
Note: 15 mil thickness.		
32 17 23 13-0101 LF Single 4" Wide Solid Line, Epoxy Reflective Pavement Striping .....	0.60	
<i>For 20 Mil Thickness, Add</i>	0.13	
<i>For Up To 5,000 LF, Add</i>	0.12	
<i>For &gt;25,000 LF, Deduct</i>	-0.09	
<i>For Broken Line, Deduct</i>	-0.26	
32 17 23 13-0102 LF Single 6" Wide Solid Line, Epoxy Reflective Pavement Striping .....	0.82	
<i>For 20 Mil Thickness, Add</i>	0.19	
<i>For Up To 5,000 LF, Add</i>	0.16	
<i>For &gt;25,000 LF, Deduct</i>	-0.12	
<i>For Broken Line, Deduct</i>	-0.39	
32 17 23 13-0103 LF Single 8" Wide Solid Line, Epoxy Reflective Pavement Striping .....	1.01	
<i>For 20 Mil Thickness, Add</i>	0.23	
<i>For Up To 5,000 LF, Add</i>	0.20	
<i>For &gt;25,000 LF, Deduct</i>	-0.15	
<i>For Broken Line, Deduct</i>	-0.47	
32 17 23 13-0104 LF Single 12" Wide Solid Line, Epoxy Reflective Pavement Striping .....	1.51	
<i>For 20 Mil Thickness, Add</i>	0.36	
<i>For Up To 5,000 LF, Add</i>	0.30	
<i>For &gt;25,000 LF, Deduct</i>	-0.23	
<i>For Broken Line, Deduct</i>	-0.77	
32 17 23 13-0105 LF Double 4" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	0.93	
<i>For 20 Mil Thickness, Add</i>	0.24	
<i>For Up To 5,000 LF, Add</i>	0.19	
<i>For &gt;25,000 LF, Deduct</i>	-0.14	
<i>For Broken Line On One Side, Deduct</i>	-0.26	
<i>For Double Broken Line, Deduct</i>	-0.51	
32 17 23 13-0106 LF Double 6" Wide Solid Lines, Epoxy Reflective Pavement Striping.....	1.32	
<i>For 20 Mil Thickness, Add</i>	0.35	
<i>For Up To 5,000 LF, Add</i>	0.26	
<i>For &gt;25,000 LF, Deduct</i>	-0.20	
<i>For Broken Line On One Side, Deduct</i>	-0.38	
<i>For Double Broken Line, Deduct</i>	-0.77	
32 17 23 13-0107 SF Solid Area, Epoxy Reflective Pavement Marking.....	7.78	
Note: Use this task for: lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
<i>For 20 Mil Thickness, Add</i>	0.91	
32 17 23 13-0108 EA 6" High, Letter/Number, Epoxy Reflective Pavement Marking.....	4.79	
<i>For 20 Mil Thickness, Add</i>	0.45	
<i>For &lt;10, Add</i>	0.61	
<i>For &gt;50 To 100, Deduct</i>	-0.30	
<i>For &gt;100 To 200, Deduct</i>	-0.41	
<i>For &gt;200, Deduct</i>	-0.81	
32 17 23 13-0109 EA 12" High, Letter/Number, Epoxy Reflective Pavement Marking.....	8.80	
<i>For 20 Mil Thickness, Add</i>	1.19	
<i>For &lt;10, Add</i>	0.92	
<i>For &gt;50 To 100, Deduct</i>	-0.46	
<i>For &gt;100 To 200, Deduct</i>	-0.62	
<i>For &gt;200, Deduct</i>	-1.23	
32 17 23 13-0110 EA 24" High, Letter/Number, Epoxy Reflective Pavement Marking.....	14.85	
<i>For 20 Mil Thickness, Add</i>	2.05	
<i>For &lt;10, Add</i>	1.53	
<i>For &gt;50 To 100, Deduct</i>	-0.77	
<i>For &gt;100 To 200, Deduct</i>	-1.02	
<i>For &gt;200, Deduct</i>	-2.04	
32 17 23 13-0111 EA 36" High, Letter/Number, Epoxy Reflective Pavement Marking.....	28.56	
<i>For 20 Mil Thickness, Add</i>	3.73	
<i>For &lt;10, Add</i>	3.06	
<i>For &gt;50 To 100, Deduct</i>	-1.53	
<i>For &gt;100 To 200, Deduct</i>	-2.04	
<i>For &gt;200, Deduct</i>	-4.08	

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0112 EA 48" High, Letter/Number, Epoxy Reflective Pavement Marking.....	33.50	
For 20 Mil Thickness, Add	4.68	
For <10, Add	3.44	
For >50 To 100, Deduct	-1.72	
For >100 To 200, Deduct	-2.29	
For >200, Deduct	-4.58	
32 17 23 13-0113 EA 72" High, Letter/Number, Epoxy Reflective Pavement Marking.....	60.09	
For 20 Mil Thickness, Add	8.48	
For <10, Add	6.11	
For >50 To 100, Deduct	-3.06	
For >100 To 200, Deduct	-4.08	
For >200, Deduct	-8.15	
32 17 23 13-0114 EA 96" High, Letter/Number, Epoxy Reflective Pavement Marking.....	80.18	
For 20 Mil Thickness, Add	11.22	
For <10, Add	8.21	
For >50 To 100, Deduct	-4.10	
For >100 To 200, Deduct	-5.47	
For >200, Deduct	-10.95	
32 17 23 13-0115 EA 120" High, Letter/Number, Epoxy Reflective Pavement Marking.....	124.62	
For 20 Mil Thickness, Add	22.32	
For <10, Add	10.17	
For >50 To 100, Deduct	-5.09	
For >100 To 200, Deduct	-6.78	
For >200, Deduct	-13.56	
32 17 23 13-0116 SF Letter/Number, Epoxy Reflective Pavement Marking.....	7.98	
For 20 Mil Thickness, Add	0.92	
32 17 23 13-0117 SF Symbols, Epoxy Reflective Pavement Marking.....	10.06	
Note: Handicap, railroad, diamond, arrows, etc.		
For 20 Mil Thickness, Add	1.02	
<b>32 17 23 13-0118 Painted Pavement Striping, Letters And Symbols For Parking Areas (32 17 23 13)</b>		
Note: Includes primers. Per Coat.		
<b>32 17 23 13-0119 Painted Pavement Marking For Parking Areas (32 17 23 13-0118)</b>		
Note: 15 mil thickness.		
32 17 23 13-0120 LF Single 4" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.26	
32 17 23 13-0121 LF Single 6" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.37	
32 17 23 13-0122 LF Single 8" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.46	
32 17 23 13-0123 LF Single 12" Wide Solid Line, Painted Pavement Striping For Parking Areas.....	1.64	
32 17 23 13-0124 SF Solid Area, Painted Pavement Marking For Parking Areas.....	6.15	
Note: Use task for lines >12" wide, stop bars, transverse lines, diagonal lines, crossing lanes, etc.		
32 17 23 13-0125 EA 6" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	4.37	
For Up To 10, Add	0.60	
For >50 To 100, Deduct	-0.30	
For >100 To 200, Deduct	-0.40	
For >200, Deduct	-0.79	
32 17 23 13-0126 EA 12" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	7.41	
For Up To 10, Add	0.89	
For >50 To 100, Deduct	-0.45	
For >100 To 200, Deduct	-0.60	
For >200, Deduct	-1.19	
32 17 23 13-0127 EA 24" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	12.47	
For Up To 10, Add	1.49	
For >50 To 100, Deduct	-0.74	
For >100 To 200, Deduct	-0.99	
For >200, Deduct	-1.98	
32 17 23 13-0128 EA 36" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	23.34	
For Up To 10, Add	2.83	
For >50 To 100, Deduct	-1.41	
For >100 To 200, Deduct	-1.88	
For >200, Deduct	-3.77	
32 17 23 13-0129 EA 42" High, Letter/Number, Painted Pavement Marking For Parking Areas.....	30.96	
For Up To 10, Add	3.87	
For >50 To 100, Deduct	-1.93	
For >100 To 200, Deduct	-2.58	
For >200, Deduct	-5.16	
32 17 23 13-0130 EA 48" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas.....	37.58	
For Up To 10, Add	4.76	
For >50 To 100, Deduct	-2.38	
For >100 To 200, Deduct	-3.17	
For >200, Deduct	-6.35	
32 17 23 13-0131 EA 72" High, Letter/Number/Arrow, Painted Pavement Marking For Parking Areas.....	50.35	
For Up To 10, Add	5.95	
For >50 To 100, Deduct	-2.97	
For >100 To 200, Deduct	-3.97	
For >200, Deduct	-7.93	
32 17 23 13-0132 EA Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	90.19	
Note: Approximate overall dimensions: 3-1/2' width x 10' height.		
32 17 23 13-0133 EA Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	103.36	
Note: Approximate overall dimensions: 6' width x 8' height.		
32 17 23 13-0134 EA Dual Turn Lane Arrow, Painted Pavement Marking For Parking Areas.....	147.66	
Note: Approximate overall dimensions: 11' width x 8' height.		
32 17 23 13-0135 EA Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas.....	150.70	
Note: Approximate overall dimensions: 7' width x 13' height.		





		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, and Paving</b>	<b>32 10</b>
		<b>Paving Specialties</b>	<b>32 17</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 13-0136 EA Dual Turn And Through Lane Arrow, Painted Pavement Marking For Parking Areas ..... 197.26 Note: Approximate overall dimensions: 9' width x 15' height.		
32 17 23 13-0137 EA Handicap Symbol For Standard Parking Stalls, Painted Pavement Marking For Parking Areas ..... 36.67 Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping. For Blue Background With White Symbol, Add 27.50 For Blue Background With White Symbol And Border, Add 34.38		
32 17 23 13-0138 EA Handicap Symbol For Van Parking Stalls, Painted Pavement Marking For Parking Areas ..... 53.98 Note: Approximate overall dimensions: 4-1/3' width x 5' height. White or blue symbol. Excludes striping. For Blue Background With White Symbol, Add 56.55 For Blue Background With White Symbol And Border, Add 70.69		
<b>32 17 23 13-0139 Painted Curbs (32 17 23 13)</b> Note: All colors.		
32 17 23 13-0140 LF Reflective Painted Curb ..... 3.45		
32 17 23 13-0141 LF Reflective Painted Curb And Gutter ..... 6.59		
32 17 23 13-0142 LF Painted Curb ..... 2.80		
32 17 23 13-0143 LF Painted Curb And Gutter ..... 6.02		
<b>32 17 23 13-0144 Markings For Outdoor Play Areas, Courts (32 17 23 13)</b>		
32 17 23 13-0145 LF 2" Wide Marking For Outdoor Play Areas ..... 0.97		
32 17 23 13-0146 LF 3" Wide Marking For Outdoor Play Areas ..... 1.08		
32 17 23 13-0147 LF 4" Wide Marking For Outdoor Play Areas ..... 1.22		
32 17 23 13-0148 LF 6" Wide Marking For Outdoor Play Areas ..... 1.43		
32 17 23 13-0149 EA Layout And Paint Playground Game Lines And Background On Asphalt Or Concrete (Hop Scotch, 4 Square, Numbers Games, Etcetera) ..... 332.86		
<b>32 17 23 13-0150 Painted Pavement Cycle Lane For Roads (32 17 23 13)</b>		
32 17 23 13-0151 SF StreetBond or Ride-A-Way Pavement Coating For Cycle Lanes ..... 4.98 Note: 4-layer system with green bike lane colorant		
<b>32 17 23 23 Raised Pavement Markings (32 17 23)</b>		
<b>32 17 23 23-0001 Raised Pavement Markers (RPMs) (32 17 23 23)</b>		
32 17 23 23-0002 EA One-Way Reflective, Raised Pavement Marker (RPM) ..... 5.95 2.56 Note: Type G, H or R For >100, Deduct -0.60		
32 17 23 23-0003 EA Two-Way Reflective, Raised Pavement Marker (RPM) ..... 6.29 2.56 Note: Type B, C, D, AC, RA or RR For >100, Deduct -0.63		
32 17 23 23-0004 EA 4" Diameter, Round Reflective, Raised Pavement Marker (RPM) ..... 7.26 2.56 For >100, Deduct -0.73		
32 17 23 23-0005 EA 4" Diameter, Non-Reflective, Raised Pavement Marker (RPM) ..... 5.50 2.56 Note: Type A or AY For >100, Deduct -0.55		
<b>32 17 23 23-0006 Snowplowable Pavement Markers (32 17 23 23)</b>		
32 17 23 23-0007 EA One-Way Reflective, Snowplowable Pavement Marker With Center Rail ..... 73.43 31.22 Note: Type G, H or R		
32 17 23 23-0008 EA Two-Way Reflective, Snowplowable Pavement Marker With Center Rail ..... 73.73 31.22 Note: Type B, C, D, AC, RA or RR		
32 17 23 23-0009 EA Removal And Replacement Of Reflector For One-Way Reflective, Recessed (Plowable) Pavement Marker ..... 19.98		
32 17 23 23-0010 EA Removal And Replacement Of Reflectors For Two-Way Reflective, Recessed (Plowable) Pavement Marker ..... 25.49		
<b>32 17 23 33 Plastic Pavement Markings (32 17 23)</b>		
<b>32 17 23 33-0001 Thermoplastic Pavement Striping, Letters, Symbols And Markers For Roads (32 17 23 33)</b> Note: Includes primers, adhesive and glass beads where required. For broken line modifier quantity use total lane length.		
<b>32 17 23 33-0002 Thermoplastic Reflective Pavement Marking (32 17 23 33-0001)</b> Note: 90 mil thickness.		
32 17 23 33-0003 LF Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping ..... 1.49 For Up To 5,000 LF, Add 0.30 For >25,000 LF, Deduct -0.22 For 60 mils Thick, Deduct -0.20 For 125 mils Thick, Add 0.26 For Broken Line, Deduct -0.87		
32 17 23 33-0004 LF Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping ..... 2.13 Note: Includes yellow or white. For Up To 5,000 LF, Add 0.43 For >25,000 LF, Deduct -0.32 For 60 mils Thick, Deduct -0.30 For 125 mils Thick, Add 0.39 For Broken Line, Deduct -1.30		

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23	33-0005	LF	Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping .....2.82 Note: Includes yellow or white.		
			<i>For Up To 5,000 LF, Add</i>	0.56	
			<i>For &gt;25,000 LF, Deduct</i>	-0.42	
			<i>For 60 mils Thick, Deduct</i>	-0.40	
			<i>For 125 mils Thick, Add</i>	0.52	
			<i>For Broken Line, Deduct</i>	-1.73	
32 17 23	33-0006	LF	Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping .....4.14 Note: Includes yellow or white.		
			<i>For Up To 5,000 LF, Add</i>	0.83	
			<i>For &gt;25,000 LF, Deduct</i>	-0.62	
			<i>For 60 mils Thick, Deduct</i>	-0.61	
			<i>For 125 mils Thick, Add</i>	0.78	
			<i>For Broken Line, Deduct</i>	-2.60	
32 17 23	33-0007	LF	Double 4" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping .....2.80 Note: Includes yellow or white.		
			<i>For Up To 5,000 LF, Add</i>	0.56	
			<i>For &gt;25,000 LF, Deduct</i>	-0.42	
			<i>For 60 mils Thick, Deduct</i>	-0.40	
			<i>For 125 mils Thick, Add</i>	0.52	
			<i>For Broken Line On One Side, Deduct</i>	-0.87	
			<i>For Double Broken Line, Deduct</i>	-1.73	
32 17 23	33-0008	LF	Double 6" Wide Solid Lines, 90 Mil Thick, Thermoplastic Reflective Pavement Striping .....4.14 Note: Includes yellow or white.		
			<i>For Up To 5,000 LF, Add</i>	0.83	
			<i>For &gt;25,000 LF, Deduct</i>	-0.62	
			<i>For 60 mils Thick, Deduct</i>	-0.61	
			<i>For 125 mils Thick, Add</i>	0.78	
			<i>For Broken Line On One Side, Deduct</i>	-1.30	
			<i>For Double Broken Line, Deduct</i>	-2.60	
32 17 23	33-0009	SF	Solid Area, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....9.40 Note: Includes yellow or white.		
			<i>For 60 mils Thick, Deduct</i>	-0.60	
			<i>For 125 mils Thick, Add</i>	0.78	
32 17 23	33-0010	EA	6" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....6.17		
			<i>For Up To 10, Add</i>	0.67	
			<i>For &gt;50 To 100, Deduct</i>	-0.34	
			<i>For &gt;100 To 200, Deduct</i>	-0.45	
			<i>For &gt;200, Deduct</i>	-0.89	
			<i>For 60 mils Thick, Deduct</i>	-0.30	
			<i>For 125 mils Thick, Add</i>	0.38	
32 17 23	33-0011	EA	12" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....12.89		
			<i>For Up To 10, Add</i>	1.01	
			<i>For &gt;50 To 100, Deduct</i>	-0.51	
			<i>For &gt;100 To 200, Deduct</i>	-0.67	
			<i>For &gt;200, Deduct</i>	-1.35	
			<i>For 60 mils Thick, Deduct</i>	-1.08	
			<i>For 125 mils Thick, Add</i>	1.38	
32 17 23	33-0012	EA	24" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....21.96		
			<i>For Up To 10, Add</i>	1.68	
			<i>For &gt;50 To 100, Deduct</i>	-0.84	
			<i>For &gt;100 To 200, Deduct</i>	-1.12	
			<i>For &gt;200, Deduct</i>	-2.24	
			<i>For 60 mils Thick, Deduct</i>	-1.88	
			<i>For 125 mils Thick, Add</i>	2.42	
32 17 23	33-0013	EA	36" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....41.43		
			<i>For Up To 10, Add</i>	3.38	
			<i>For &gt;50 To 100, Deduct</i>	-1.69	
			<i>For &gt;100 To 200, Deduct</i>	-2.25	
			<i>For &gt;200, Deduct</i>	-4.50	
			<i>For 60 mils Thick, Deduct</i>	-3.31	
			<i>For 125 mils Thick, Add</i>	4.26	
32 17 23	33-0014	EA	48" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....49.78		
			<i>For Up To 10, Add</i>	3.78	
			<i>For &gt;50 To 100, Deduct</i>	-1.89	
			<i>For &gt;100 To 200, Deduct</i>	-2.52	
			<i>For &gt;200, Deduct</i>	-5.04	
			<i>For 60 mils Thick, Deduct</i>	-4.31	
			<i>For 125 mils Thick, Add</i>	5.54	
32 17 23	33-0015	EA	72" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....89.76		
			<i>For Up To 10, Add</i>	6.72	
			<i>For &gt;50 To 100, Deduct</i>	-3.36	
			<i>For &gt;100 To 200, Deduct</i>	-4.48	
			<i>For &gt;200, Deduct</i>	-8.96	
			<i>For 60 mils Thick, Deduct</i>	-7.86	
			<i>For 125 mils Thick, Add</i>	10.11	
32 17 23	33-0016	EA	96" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....119.32		
			<i>For Up To 10, Add</i>	9.03	
			<i>For &gt;50 To 100, Deduct</i>	-4.51	
			<i>For &gt;100 To 200, Deduct</i>	-6.02	
			<i>For &gt;200, Deduct</i>	-12.04	
			<i>For 60 mils Thick, Deduct</i>	-10.35	
			<i>For 125 mils Thick, Add</i>	13.30	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0017	EA			120" High, Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	206.53	
				<i>For Up To 10, Add</i>	11.18	
				<i>For &gt;50 To 100, Deduct</i>	-5.59	
				<i>For &gt;100 To 200, Deduct</i>	-7.46	
				<i>For &gt;200, Deduct</i>	-14.91	
				<i>For 60 mils Thick, Deduct</i>	-23.09	
				<i>For 125 mils Thick, Add</i>	29.69	
32 17 23 33-0018	SF			Letter/Number, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	11.00	
				<i>For 60 mils Thick, Deduct</i>	-0.75	
				<i>For 125 mils Thick, Add</i>	0.96	
32 17 23 33-0019	SY			Cross Hatch, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	32.55	
				Note: Per SY of area.		
				<i>For 60 mils Thick, Deduct</i>	-1.36	
				<i>For 125 mils Thick, Add</i>	1.75	
32 17 23 33-0020	EA			Handicap Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	287.20	
				<i>For 60 mils Thick, Deduct</i>	-17.14	
				<i>For 125 mils Thick, Add</i>	22.03	
32 17 23 33-0021	EA			Railroad Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	853.27	
				<i>For 60 mils Thick, Deduct</i>	-52.15	
				<i>For 125 mils Thick, Add</i>	67.05	
32 17 23 33-0022	EA			Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	174.51	
				Note: Approximate overall dimensions: 4' width x 8' height.		
				<i>For 60 mils Thick, Deduct</i>	-23.60	
				<i>For 125 mils Thick, Add</i>	30.34	
32 17 23 33-0023	EA			Diamond Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	137.36	
				<i>For 60 mils Thick, Deduct</i>	-8.20	
				<i>For 125 mils Thick, Add</i>	10.54	
32 17 23 33-0024	SF			Symbols, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	12.49	
				Note: Handicap, railroad, diamond, arrows, etc.		
				<i>For 60 mils Thick, Deduct</i>	-0.75	
				<i>For 125 mils Thick, Add</i>	0.96	
32 17 23 33-0025	EA			10' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	174.82	
				<i>For 60 mils Thick, Deduct</i>	-10.43	
				<i>For 125 mils Thick, Add</i>	13.41	
32 17 23 33-0026	EA			18' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	312.18	
				<i>For 60 mils Thick, Deduct</i>	-18.63	
				<i>For 125 mils Thick, Add</i>	23.95	
32 17 23 33-0027	EA			24' Arrow, Type I, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	387.09	
				<i>For 60 mils Thick, Deduct</i>	-23.09	
				<i>For 125 mils Thick, Add</i>	29.69	
32 17 23 33-0028	EA			24' Arrow With Single (L or R) Turn Arrow, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	561.91	
				<i>For 60 mils Thick, Deduct</i>	-33.52	
				<i>For 125 mils Thick, Add</i>	43.10	
32 17 23 33-0029	EA			24' Arrow With Both (L and R) Turn Arrows, Type II, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	736.74	
				<i>For 60 mils Thick, Deduct</i>	-43.96	
				<i>For 125 mils Thick, Add</i>	56.52	
32 17 23 33-0030	EA			24' Arrow Single (L or R) Turn Arrow, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	524.45	
				<i>For 60 mils Thick, Deduct</i>	-31.29	
				<i>For 125 mils Thick, Add</i>	40.23	
32 17 23 33-0031	EA			24' Arrow Both (L and R) Turn Arrows, Type III, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	911.55	
				<i>For 60 mils Thick, Deduct</i>	-54.39	
				<i>For 125 mils Thick, Add</i>	69.93	
32 17 23 33-0032	EA			8' Turn Arrow (L or R), Type IV, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	187.31	
				<i>For 60 mils Thick, Deduct</i>	-11.18	
				<i>For 125 mils Thick, Add</i>	14.37	
32 17 23 33-0033	EA			24' Arrow, Type V, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	412.07	
				<i>For 60 mils Thick, Deduct</i>	-24.59	
				<i>For 125 mils Thick, Add</i>	31.61	
32 17 23 33-0034	EA			18' Arrow, Type VI, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	524.45	
				<i>For 60 mils Thick, Deduct</i>	-31.29	
				<i>For 125 mils Thick, Add</i>	40.23	
32 17 23 33-0035	EA			13' Arrow With Single (L or R) Turn Arrow, Type VII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	337.14	
				<i>For 60 mils Thick, Deduct</i>	-20.11	
				<i>For 125 mils Thick, Add</i>	25.86	
32 17 23 33-0036	EA			15' Arrow With Both (L and R) Turn Arrows, Type VIII, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	449.53	
				<i>For 60 mils Thick, Deduct</i>	-26.82	
				<i>For 125 mils Thick, Add</i>	34.48	
32 17 23 33-0037	EA			5' Arrow, Bike Lane, 90 Mil Thick, Thermoplastic Reflective Pavement Marking .....	87.41	
				<i>For 60 mils Thick, Deduct</i>	-5.22	
				<i>For 125 mils Thick, Add</i>	6.71	
<b>32 17 23 33-0038</b>				<b>Thermoplastic Reflective Pavement Striping By Hand For Repairs</b> <small>(32 17 23 33-0001)</small> .....	3.26	
32 17 23 33-0039	LF			Single 4" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs .....	3.26	
				<i>For 60 mils Thick, Deduct</i>	-0.20	
				<i>For 125 mils Thick, Add</i>	0.26	
32 17 23 33-0040	LF			Single 6" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs .....	4.12	
				<i>For 60 mils Thick, Deduct</i>	-0.30	
				<i>For 125 mils Thick, Add</i>	0.39	
32 17 23 33-0041	LF			Single 8" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs .....	5.09	
				<i>For 60 mils Thick, Deduct</i>	-0.40	
				<i>For 125 mils Thick, Add</i>	0.52	
32 17 23 33-0042	LF			Single 12" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs .....	7.33	
				<i>For 60 mils Thick, Deduct</i>	-0.61	
				<i>For 125 mils Thick, Add</i>	0.78	

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 17 Paving Specialties**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0043	LF	Single 24" Wide Solid Line, 90 Mil Thick, Thermoplastic Reflective Pavement Striping By Hand For Repairs ..... <i>For 60 mils Thick, Deduct</i> <i>For 125 mils Thick, Add</i>	13.21 -1.21 1.56	
<b>32 17 23 33-0044</b>		<b>Preformed, Patterned Reflective Pavement Marking Tape</b> <small>(32 17 23 33-0001)</small> Note: Applied with pressure sensitive adhesive. Includes adhesive. 60 mil thickness. (3M Stamark 380 Series).		
32 17 23 33-0045	LF	Single 4" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping ..... Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For &gt;25,000 LF, Deduct</i>	3.18 0.64 -0.48	
32 17 23 33-0046	LF	Single 6" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping ..... Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For &gt;25,000 LF, Deduct</i>	4.70 0.94 -0.71	
32 17 23 33-0047	LF	Single 8" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping ..... Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For &gt;25,000 LF, Deduct</i>	6.24 1.25 -0.94	
32 17 23 33-0048	LF	Single 12" Wide Solid Line, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Striping ..... Note: Includes yellow or white. <i>For Up To 5,000 LF, Add</i> <i>For &gt;25,000 LF, Deduct</i>	9.27 1.85 -1.39	
32 17 23 33-0049	SF	Solid Area, 60 Mil Thick, Preformed Patterned Thermoplastic Reflective Pavement Marking Tape ..... Note: Includes yellow or white.	25.68	
32 17 23 33-0050	EA	6" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape ..... <i>For &lt;10, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i>	38.15 1.22 -0.61 -0.81 -1.63	
32 17 23 33-0051	EA	12" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape ..... <i>For &lt;10, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i>	67.44 1.55 -0.77 -1.03 -2.06	
32 17 23 33-0052	EA	24" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape ..... <i>For &lt;10, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i>	115.80 3.06 -1.53 -2.04 -4.08	
32 17 23 33-0053	EA	36" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape ..... <i>For &lt;10, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i>	166.93 6.13 -3.06 -4.09 -8.17	
32 17 23 33-0054	EA	48" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape ..... <i>For &lt;10, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i>	195.71 6.87 -3.44 -4.58 -9.16	
32 17 23 33-0055	EA	72" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape ..... <i>For &lt;10, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i>	250.00 12.23 -6.11 -8.15 -16.30	
32 17 23 33-0056	EA	96" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape ..... <i>For &lt;10, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i>	318.63 16.42 -8.21 -10.95 -21.89	
32 17 23 33-0057	EA	120" High, Preformed Letter/Number, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape ..... <i>For &lt;10, Add</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i>	399.41 20.35 -10.17 -13.56 -27.13	
32 17 23 33-0058	SF	Preformed Arrow, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape .....	26.47	
32 17 23 33-0059	SF	Preformed Symbol, 60 Mil Thick, Patterned Thermoplastic Reflective Pavement Marking Tape ..... Note: Handicap, railroad, diamond symbol, etc.	27.96	
<b>32 17 23 33-0060</b>		<b>Preformed, Thermoplastic Reflective Pavement Marking</b> <small>(32 17 23 33-0001)</small> Note: Heat applied. (Flint PreMark or HotTape Series).		
32 17 23 33-0061	EA	Preformed Bike Lane Symbol, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... Note: Approximate overall dimensions: 4' width x 8' height.	409.26	
32 17 23 33-0062	EA	Preformed Railroad Crossing Symbol, 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... Note: Approximate overall dimensions: 8' width x 20' height. Excludes transverse lines.	1,085.92	
32 17 23 33-0063	EA	Preformed Preferential Lane Symbol (Diamond), 125 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... Note: Approximate overall dimensions: 3-1/4' width x 13' height.	214.51	
32 17 23 33-0064	EA	6' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... Note: Approximate overall dimensions: 2' width x 6' height.	180.27	
32 17 23 33-0065	EA	9-1/2' Height, Preformed Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... Note: Approximate overall dimensions: 3-1/4' width x 9-1/2' height.	353.99	
32 17 23 33-0066	EA	4' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... Note: Approximate overall dimensions: 3' width x 4' height.	209.66	



		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, and Paving</b>	<b>32 10</b>
		<b>Paving Specialties</b>	<b>32 17</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 17 23 33-0067 EA 8' Height, Preformed Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... 394.64 Note: Approximate overall dimensions: 6' width x 8' height.	394.64	
32 17 23 33-0068 EA Preformed Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... 677.50 Note: Approximate overall dimensions: 7-1/4' width x 12-3/4' height.	677.50	
32 17 23 33-0069 EA Preformed Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... 1,022.46 Note: Approximate overall dimensions: 11-1/4' width x 13-1/4' height.	1,022.46	
32 17 23 33-0070 EA Preformed Elongated Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... 363.71 Note: Approximate overall dimensions: 1-2/3' width x 12' height.	363.71	
32 17 23 33-0071 EA Preformed Elongated Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... 404.36 Note: Approximate overall dimensions: 3' width x 12' height.	404.36	
32 17 23 33-0072 EA Preformed Elongated Dual Turn Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... 749.22 Note: Approximate overall dimensions: 5-1/2' width x 12' height.	749.22	
32 17 23 33-0073 EA Preformed Elongated Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... 688.41 Note: Approximate overall dimensions: 3-1/2' width x 20' height.	688.41	
32 17 23 33-0074 EA Preformed Elongated Dual Turn And Through Lane Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape..... 691.38 Note: Approximate overall dimensions: 5-1/2' width x 20' height.	691.38	
32 17 23 33-0075 EA Preformed Lane-Reduction Arrow, 90 Mil Thick, Thermoplastic Reflective Pavement Marking Tape ..... 953.53 Note: Approximate overall dimensions: 5-1/2' width x 18' height.	953.53	
32 17 23 33-0076 EA 4' x 7' Preformed Bike Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking ..... 570.00 Note: Lightgreen or black background color with white symbol.	570.00	
32 17 23 33-0077 EA 4' x 10' Preformed Shared Bike Lane Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking ..... 812.15 Note: Lightgreen or black background color with white symbol.	812.15	
32 17 23 33-0078 EA 4' x 20' Preformed Bike Symbol Panel, 90 Mil Thick, Thermoplastic Reflective Pavement Marking ..... 1,624.32 Note: Lightgreen background color with white symbol.	1,624.32	
<b>32 17 23 33-0079 Thermoplastic Pavement Striping, Letters And Symbols For Parking Areas</b> <small>(32 17 23 33)</small>		
<b>32 17 23 33-0080 Thermoplastic Pavement Marking Symbols For Parking Areas</b> <small>(32 17 23 33-0079)</small> Note: Heat applied. (Flint PreMark Series).		
32 17 23 33-0081 EA 28" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas ..... 138.67 Note: White or blue symbol. Excludes striping.	138.67	
32 17 23 33-0082 EA 39" Handicap Symbol For Standard Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas ..... 525.09 Note: Approximate overall dimensions: 2-2/3' width x 3' height. White or blue symbol. Excludes striping.	525.09	
32 17 23 33-0083 EA 40" x 40" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas ..... 296.56 Note: White symbol on blue background. Excludes striping.	296.56	
32 17 23 33-0084 EA 45" x 45" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas ..... 356.50 Note: White symbol on blue background. Excludes striping.	356.50	
32 17 23 33-0085 EA 48" x 48" Handicap Symbol For Van Parking Stalls, 90 Mil Thick, Thermoplastic Pavement Marking Tape For Parking Areas ..... 373.68 Note: White symbol on blue background. Excludes striping.	373.68	
<b>32 17 26 Tactile Warning Surfaces</b> <small>(32 17)</small>		
<b>32 17 26 00-0001 Vitrified Polymer Composite (VPC); (Armor Tile)</b> <small>(32 17 26)</small> Note: Truncated dome, raised strips or directional bars. All colors.		
32 17 26 00-0002 SF Surface Applied VPC Truncated Dome Detectable Warning Surface ..... 71.07 Note: Includes adhesive, fasteners and sealant at perimeter. Also raised strips or directional bars. All colors.	71.07	10.17
32 17 26 00-0003 SF Embedded, VPC Truncated Dome Detectable Warning Surface ..... 57.85 Note: Also raised strips or directional bars. All colors.	57.85	10.17
<b>32 17 26 00-0004 Fiber-Reinforced, Polymermodified Cement And Coated With Acrylic Resin Emulsion (SatetyStep TD)</b> <small>(32 17 26)</small> Note: Pre-molded tactile dome sheet. All colors.		
32 17 26 00-0005 SF Up To 15 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) ..... 80.71 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 topcoat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	80.71	10.17
32 17 26 00-0006 SF >15 To 36 SF, Surface Applied Pre-Molded Tactile Warning Mat (SSTD-MAT) ..... 71.56 Note: Includes surface preparation, SSTD-589 adhesive, SSTD-100 top coat sealer and SSTD-1250 finish . All colors. 2' or 3' width.	71.56	10.17
<b>32 18 Athletic and Recreational Surfacing</b> <small>(32 10)</small>		
<b>32 18 16 Synthetic Resilient Surfacing</b> <small>(32 18)</small>		
<b>32 18 16 13 Playground Protective Surfacing</b> <small>(32 18 16)</small>		
<b>32 18 16 13-0001 Tile Playground Surface Material</b> <small>(32 18 16 13)</small> Note: Black. With or without channel bottom. Includes transition section and curbs. Excludes sub base.		
32 18 16 13-0002 SF 1-3/4" Thick, Resilient Rubber Tile Playground Surfacing ..... 22.02 For Manufacturer's Standard Colors, Add 1.36 For Interlocking Tiles, Add 3.02 For Mechanically Fastened, Add 1.79 For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add 1.50	22.02	2.32

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0003 SF 2" Thick, Resilient Rubber Tile Playground Surfacing.....	22.46	2.45
For Manufacturer's Standard Colors, Add	1.36	
For Interlocking Tiles, Add	3.02	
For Mechanically Fastened, Add	1.87	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0004 SF 2-1/4" Thick, Resilient Rubber Tile Playground Surfacing .....	23.33	2.74
For Manufacturer's Standard Colors, Add	1.36	
For Interlocking Tiles, Add	3.02	
For Mechanically Fastened, Add	2.05	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0005 SF 2-1/2" Thick, Resilient Rubber Tile Playground Surfacing .....	24.19	3.03
For Manufacturer's Standard Colors, Add	1.36	
For Interlocking Tiles, Add	3.02	
For Mechanically Fastened, Add	2.22	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0006 SF 2-3/4" Thick, Resilient Rubber Tile Playground Surfacing .....	27.01	3.32
For Manufacturer's Standard Colors, Add	1.02	
For Interlocking Tiles, Add	3.41	
For Mechanically Fastened, Add	2.39	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0007 SF 3" Thick, Resilient Rubber Tile Playground Surfacing.....	27.96	3.64
For Manufacturer's Standard Colors, Add	1.02	
For Interlocking Tiles, Add	3.41	
For Mechanically Fastened, Add	2.58	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0008 SF 3-1/4" Thick, Resilient Rubber Tile Playground Surfacing .....	28.96	3.97
For Manufacturer's Standard Colors, Add	1.02	
For Interlocking Tiles, Add	3.41	
For Mechanically Fastened, Add	2.78	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0009 SF 3-1/2" Thick, Resilient Rubber Tile Playground Surfacing .....	31.85	4.24
For Manufacturer's Standard Colors, Add	0.57	
For Interlocking Tiles, Add	3.80	
For Mechanically Fastened, Add	2.97	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0010 SF 3-3/4" Thick, Resilient Rubber Tile Playground Surfacing .....	32.71	4.59
For Manufacturer's Standard Colors, Add	0.57	
For Interlocking Tiles, Add	3.80	
For Mechanically Fastened, Add	3.14	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0011 SF 4" Thick, Resilient Rubber Tile Playground Surfacing.....	33.67	4.85
For Manufacturer's Standard Colors, Add	0.57	
For Interlocking Tiles, Add	3.80	
For Mechanically Fastened, Add	3.33	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
32 18 16 13-0012 SF 4-1/2" Thick, Resilient Rubber Tile Playground Surfacing .....	38.75	5.46
For Manufacturer's Standard Colors, Add	0.56	
For Interlocking Tiles, Add	4.46	
For Mechanically Fastened, Add	3.69	
For Ethylene Propylene Diene Monomer (EPDM) Top Wearing Surface, Add	1.50	
<b>32 18 16 13-0013 Loose Laid Playground Surface Material</b> <small>(32 18 16 13)</small>		
Note: Excludes sub base.		
32 18 16 13-0014 SF 3" Loose Laid Wood Fiber Safety Playground Surfacing .....	1.92	0.35
32 18 16 13-0015 SF 6" Loose Laid Wood Fiber Safety Playground Surfacing .....	2.63	0.43
32 18 16 13-0016 SF 9" Loose Laid Wood Fiber Safety Playground Surfacing .....	3.41	0.52
32 18 16 13-0017 SF 12" Loose Laid Wood Fiber Safety Playground Surfacing .....	4.80	0.78
32 18 16 13-0018 SF 3" Loose Laid Synthetic Fiber Safety Playground Surfacing .....	3.22	0.35
32 18 16 13-0019 SF 6" Loose Laid Synthetic Fiber Safety Playground Surfacing .....	3.99	0.43
32 18 16 13-0020 SF 9" Loose Laid Synthetic Fiber Safety Playground Surfacing .....	6.38	0.52
32 18 16 13-0021 SF 12" Loose Laid Synthetic Fiber Safety Playground Surfacing .....	7.80	0.78
32 18 16 13-0022 SF 8" FIBAR System Playground Surfacing.....	13.16	1.30
Note: Includes drainage system on 6" centers, felt, edge railing and 8" wood fiber.		
32 18 16 13-0023 SF 12" FIBAR System Playground Surfacing .....	16.61	1.74
Note: Includes drainage system on 6" centers, felt, edge railing and 12" wood fiber.		
<b>32 18 16 13-0024 Poured In Place Playground Surfacing</b> <small>(32 18 16 13)</small>		
Note: Includes SBR base mat, 100% color ethylene propylene diene monomer (EPDM) top surface and 5 year warranty. Includes primer for base mat and top surface. Includes all colors. Excludes base preparation.		
32 18 16 13-0025 SF 1-3/4" Thick, Up To 4' Critical Fall Height, Poured In Place Rubber Playground Surfacing .....	17.70	2.66
For Up To 2,000, Add	3.59	
For >2,000 To 3,000, Add	2.53	
For >3,000 To 4,000, Add	1.72	
For >4,000 To 5,000, Add	1.10	
For >5,000 To 7,000, Add	0.46	
For Aliphatic (Non-Yellowing) Binder, Add	4.25	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.59	



<b>Exterior Improvements</b>	<b>32</b>
<b>Bases, Ballasts, and Paving</b>	<b>32 10</b>
<b>Athletic and Recreational Surfacing</b>	<b>32 18</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 16 13-0026 SF 2" Thick, 5' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	18.25	2.95
For Up To 2,000, Add	3.70	
For >2,000 To 3,000, Add	2.61	
For >3,000 To 4,000, Add	1.77	
For >4,000 To 5,000, Add	1.13	
For >5,000 To 7,000, Add	0.47	
For Aliphatic (Non-Yellowing) Binder, Add	4.25	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.59	
32 18 16 13-0027 SF 2-1/2" Thick, 6' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	19.70	3.37
For Up To 2,000, Add	3.99	
For >2,000 To 3,000, Add	2.81	
For >3,000 To 4,000, Add	1.91	
For >4,000 To 5,000, Add	1.22	
For >5,000 To 7,000, Add	0.51	
For Aliphatic (Non-Yellowing) Binder, Add	4.25	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.59	
32 18 16 13-0028 SF 3" Thick, 7' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	21.28	3.59
For Up To 2,000, Add	4.31	
For >2,000 To 3,000, Add	3.04	
For >3,000 To 4,000, Add	2.07	
For >4,000 To 5,000, Add	1.32	
For >5,000 To 7,000, Add	0.55	
For Aliphatic (Non-Yellowing) Binder, Add	4.25	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.59	
32 18 16 13-0029 SF 3-1/2" Thick, 8' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	22.85	3.78
For Up To 2,000, Add	4.63	
For >2,000 To 3,000, Add	3.26	
For >3,000 To 4,000, Add	2.22	
For >4,000 To 5,000, Add	1.42	
For >5,000 To 7,000, Add	0.59	
For Aliphatic (Non-Yellowing) Binder, Add	4.25	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.59	
32 18 16 13-0030 SF 4" Thick, 9' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	24.19	4.00
For Up To 2,000, Add	4.90	
For >2,000 To 3,000, Add	3.45	
For >3,000 To 4,000, Add	2.35	
For >4,000 To 5,000, Add	1.50	
For >5,000 To 7,000, Add	0.62	
For Aliphatic (Non-Yellowing) Binder, Add	4.25	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.59	
32 18 16 13-0031 SF 4-1/2" Thick, 10' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	25.77	4.21
For Up To 2,000, Add	5.22	
For >2,000 To 3,000, Add	3.68	
For >3,000 To 4,000, Add	2.50	
For >4,000 To 5,000, Add	1.60	
For >5,000 To 7,000, Add	0.67	
For Aliphatic (Non-Yellowing) Binder, Add	4.25	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.59	
32 18 16 13-0032 SF 5-1/2" Thick, 12' Critical Fall Height, Poured In Place Rubber Playground Surfacing.....	28.90	4.72
For Up To 2,000, Add	5.86	
For >2,000 To 3,000, Add	4.13	
For >3,000 To 4,000, Add	2.81	
For >4,000 To 5,000, Add	1.79	
For >5,000 To 7,000, Add	0.75	
For Aliphatic (Non-Yellowing) Binder, Add	4.25	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.59	
32 18 16 13-0033 SF 1/2" Top Only, Poured In Place Playground Surfacing .....	11.56	
Note: Not used with new surfacing system tasks.		
For Up To 2,000, Add	3.53	
For >2,000 To 3,000, Add	2.29	
For >3,000 To 4,000, Add	1.39	
For >4,000 To 5,000, Add	0.84	
For >5,000 To 7,000, Add	0.38	
For Aliphatic (Non-Yellowing) Binder, Add	4.25	
For Each 10% Of Area In Black Instead Of Color, Deduct	-0.59	
32 18 16 13-0034 EA Simple Graphics Including Hopscotch, Four Square Or Geometric Shapes (5 Per 1,000 SF) For Poured In Place Playground Surfacing.....	2,623.64	
<b>32 18 16 13-0035 Synthetic Playground Turf (Sporturf) <small>(32 18 16 13)</small></b>		
Note: Excludes base preparation, aggregate, or drainage.		
32 18 16 13-0036 SF 60 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Sporturf PL929).....	10.31	
32 18 16 13-0037 SF 71 OZ/SY Face Weight, Tufted Polyethylene Monofilament Classic Spine/ Texturized Polypropylene Synthetic Turf (Mirage PL906) .....	9.05	
32 18 16 13-0038 SF 2" Foam Padding (Sporturf).....	5.82	
32 18 16 13-0039 CF Sand/Ruber Infill (Sporturf).....	52.34	

**32 18 23 Athletic Surfacing (32 18)**

**32 18 23 29 Synthetic Field Sport Surfacing (32 18 23)**

32 18 23 29-0001 Synthetic Field Sport Surfacing (32 18 23 29)

32 18 23 29-0002 Synthetic Turf (AstroTurf) (32 18 23 29-0001)

Note: Includes labor, equipment and material required to install the task.

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0003		Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT) <small>(32 18 23 29-0002)</small>		
32 18 23 29-0004		38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 38) <small>(32 18 23 29-0003)</small>		
32 18 23 29-0005	SF	38 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 38) .....	8.09	
		<i>For Ambient Rubber And Sand Infill, Add</i> .....	0.10	
		<i>For Cryo Rubber Infill, Add</i> .....	0.26	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i> .....	0.31	
		<i>For Cryo Rubber And Sand Infill, Add</i> .....	0.36	
32 18 23 29-0006	EA	Football Markings For AstroTurf® GameDay Grass™ MT 38 Fields .....	27,261.72	
32 18 23 29-0007	EA	Baseball Markings For AstroTurf® GameDay Grass™ MT 38 Fields .....	22,220.87	
32 18 23 29-0008	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 38 Fields..... Note: Per sport.	6,686.84	
32 18 23 29-0009	EA	Endzone Lettering For AstroTurf® GameDay Grass™ MT 38 Fields .....	2,468.99	
		Note: Per letter. Excludes outline.		
32 18 23 29-0010	EA	Colored Endzone For AstroTurf® GameDay Grass™ MT 38 Fields..... Note: Per endzone.	2,366.11	
32 18 23 29-0011	EA	Simple Logo For AstroTurf® GameDay Grass™ MT 38 Fields .....	20,574.88	
		Note: Block letter.		
32 18 23 29-0012	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 38 Fields .....	29,833.58	
		Note: Graphic.		
32 18 23 29-0013		41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 41) <small>(32 18 23 29-0003)</small>		
32 18 23 29-0014	SF	41 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 41) .....	9.33	
		<i>For Ambient Rubber And Sand Infill, Add</i> .....	0.10	
		<i>For Cryo Rubber Infill, Add</i> .....	0.26	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i> .....	0.31	
		<i>For Cryo Rubber And Sand Infill, Add</i> .....	0.36	
32 18 23 29-0015	EA	Football Markings For AstroTurf® GameDay Grass™ MT 41 Fields .....	27,776.25	
32 18 23 29-0016	EA	Baseball Markings For AstroTurf® GameDay Grass™ MT 41 Fields .....	23,044.00	
32 18 23 29-0017	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 41 Fields..... Note: Per sport.	7,201.25	
32 18 23 29-0018	EA	Endzone Lettering For AstroTurf® GameDay Grass™ MT 41 Fields .....	2,674.75	
		Note: Per letter. Excludes outline.		
32 18 23 29-0019	EA	Colored Endzone For AstroTurf® GameDay Grass™ MT 41 Fields..... Note: Per endzone.	2,469.00	
32 18 23 29-0020	EA	Simple Logo For AstroTurf® GameDay Grass™ MT 41 Fields .....	21,603.75	
		Note: Block letter.		
32 18 23 29-0021	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 41 Fields .....	31,325.44	
		Note: Graphic.		
32 18 23 29-0022		45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ MT 45) <small>(32 18 23 29-0003)</small>		
32 18 23 29-0023	SF	45 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Ambient Rubber Infill (AstroTurf® GameDay Grass™ MT 45) .....	9.51	
		<i>For Ambient Rubber And Sand Infill, Add</i> .....	0.10	
		<i>For Cryo Rubber Infill, Add</i> .....	0.26	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i> .....	0.31	
		<i>For Cryo Rubber And Sand Infill, Add</i> .....	0.36	
32 18 23 29-0024	EA	Football Markings For AstroTurf® GameDay Grass™ MT 45 Fields .....	28,290.63	
32 18 23 29-0025	EA	Baseball Markings For AstroTurf® GameDay Grass™ MT 45 Fields .....	24,895.75	
32 18 23 29-0026	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ MT 45 Fields..... Note: Per sport.	7,715.63	
32 18 23 29-0027	EA	Endzone Lettering For AstroTurf® GameDay Grass™ MT 45 Fields .....	2,880.50	
		Note: Per letter. Excludes outline.		
32 18 23 29-0028	EA	Colored Endzone For AstroTurf® GameDay Grass™ MT 45 Fields..... Note: Per endzone.	2,571.88	
32 18 23 29-0029	EA	Simple Logo For AstroTurf® GameDay Grass™ MT 45 Fields .....	22,632.50	
		Note: Block letter.		
32 18 23 29-0030	EA	Deluxe Logo For AstroTurf® GameDay Grass™ MT 45 Fields .....	32,817.13	
		Note: Graphic.		
32 18 23 29-0031		Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D) <small>(32 18 23 29-0002)</small>		
32 18 23 29-0032		52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 52) <small>(32 18 23 29-0031)</small>		
32 18 23 29-0033	SF	52 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 52) .....	10.67	
		<i>For Ambient Rubber And Sand Infill, Add</i> .....	0.10	
		<i>For Cryo Rubber Infill, Add</i> .....	0.20	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i> .....	0.25	
		<i>For Cryo Rubber And Sand Infill, Add</i> .....	0.30	
32 18 23 29-0034	EA	Football Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields .....	29,319.20	
32 18 23 29-0035	EA	Baseball Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields .....	31,273.82	





		<b>Exterior Improvements</b>	<b>32</b>
		<b>Bases, Ballasts, and Paving</b>	<b>32 10</b>
		<b>Athletic and Recreational Surfacing</b>	<b>32 18</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0036 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	8,744.32	
Note: Per sport.		
32 18 23 29-0037 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 52 Fields .....	3,291.98	
Note: Per letter. Excludes outline.		
32 18 23 29-0038 EA Colored Endzone For AstroTurf® GameDay Grass™ 3DX 52 Fields.....	2,777.61	
Note: Per endzone.		
32 18 23 29-0039 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields .....	24,689.86	
Note: Block letter.		
32 18 23 29-0040 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 52 Fields .....	35,800.29	
Note: Graphic.		
<b>32 18 23 29-0041 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3DX 60) <small>(32 18 23 29-0031)</small></b>		
32 18 23 29-0042 SF 60 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3DX 60).....	11.05	
<i>For Ambient Rubber And Sand Infill, Add</i>	<i>0.10</i>	
<i>For Cryo Rubber Infill, Add</i>	<i>0.20</i>	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	<i>0.25</i>	
<i>For Cryo Rubber And Sand Infill, Add</i>	<i>0.30</i>	
32 18 23 29-0043 EA Football Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields .....	29,833.58	
32 18 23 29-0044 EA Baseball Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields .....	34,771.55	
32 18 23 29-0045 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	9,258.70	
Note: Per sport.		
32 18 23 29-0046 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3DX 60 Fields .....	3,497.73	
Note: Per letter. Excludes outline.		
32 18 23 29-0047 EA Colored Endzone For AstroTurf® GameDay Grass™ 3DX 60 Fields.....	2,880.48	
Note: Per endzone.		
32 18 23 29-0048 EA Simple Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields .....	25,718.60	
Note: Block letter.		
32 18 23 29-0049 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3DX 60 Fields .....	37,291.97	
Note: Graphic.		
<b>32 18 23 29-0050 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 52) <small>(32 18 23 29-0031)</small></b>		
32 18 23 29-0051 SF 52 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 52).....	11.07	
<i>For Ambient Rubber And Sand Infill, Add</i>	<i>0.10</i>	
<i>For Cryo Rubber Infill, Add</i>	<i>0.20</i>	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	<i>0.25</i>	
<i>For Cryo Rubber And Sand Infill, Add</i>	<i>0.30</i>	
32 18 23 29-0052 EA Football Markings For AstroTurf® GameDay Grass™ 3D 52 Fields .....	30,347.95	
32 18 23 29-0053 EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 52 Fields .....	34,977.30	
32 18 23 29-0054 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 52 Fields.....	9,773.07	
Note: Per sport.		
32 18 23 29-0055 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3D 52 Fields.....	3,703.48	
Note: Per letter. Excludes outline.		
32 18 23 29-0056 EA Colored Endzone For AstroTurf® GameDay Grass™ 3D 52 Fields .....	2,983.36	
Note: Per endzone.		
32 18 23 29-0057 EA Simple Logo For AstroTurf® GameDay Grass™ 3D 52 Fields.....	26,747.34	
Note: Block letter.		
32 18 23 29-0058 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 52 Fields.....	38,783.65	
Note: Graphic.		
<b>32 18 23 29-0059 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ 3D 60) <small>(32 18 23 29-0031)</small></b>		
32 18 23 29-0060 SF 60 Oz/SY Face Weight, Tufted Monofilament Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ 3D 60).....	11.28	
<i>For Ambient Rubber And Sand Infill, Add</i>	<i>0.10</i>	
<i>For Cryo Rubber Infill, Add</i>	<i>0.20</i>	
<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	<i>0.25</i>	
<i>For Cryo Rubber And Sand Infill, Add</i>	<i>0.30</i>	
32 18 23 29-0061 EA Football Markings For AstroTurf® GameDay Grass™ 3D 60 Fields .....	30,862.32	
32 18 23 29-0062 EA Baseball Markings For AstroTurf® GameDay Grass™ 3D 60 Fields .....	37,240.53	
32 18 23 29-0063 EA Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ 3D 60 Fields.....	10,287.44	
Note: Per sport.		
32 18 23 29-0064 EA Endzone Lettering For AstroTurf® GameDay Grass™ 3D 60 Fields.....	4,114.98	
Note: Per letter. Excludes outline.		
32 18 23 29-0065 EA Colored Endzone For AstroTurf® GameDay Grass™ 3D 60 Fields.....	3,086.23	
Note: Per endzone.		
32 18 23 29-0066 EA Simple Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	27,776.09	
Note: Block letter.		
32 18 23 29-0067 EA Deluxe Logo For AstroTurf® GameDay Grass™ 3D 60 Fields.....	40,275.33	
Note: Graphic.		
<b>32 18 23 29-0068 Tufted Monofilament Polyethylene Synthetic Turf (AstroTurf® GameDay Grass™ XPe) <small>(32 18 23 29-0002)</small></b>		

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0069		<b>38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 38)</b> <small>(32 18 23 29-0069)</small>		
32 18 23 29-0070	SF	38 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 38).....	8.95	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.26	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0071	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 38 Fields .....	26,233.13	
32 18 23 29-0072	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 38 Fields .....	19,340.50	
32 18 23 29-0073	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 38 Fields .....	5,658.13	
		Note: Per sport.		
32 18 23 29-0074	EA	Endzone Lettering For AstroTurf® GameDay Grass™ XPe 38 Fields.....	2,057.50	
		Note: Per letter. Excludes outline.		
32 18 23 29-0075	EA	Colored Endzone For AstroTurf® GameDay Grass™ XPe 38 Fields.....	2,160.38	
		Note: Per endzone.		
32 18 23 29-0076	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	18,517.50	
		Note: Block letter.		
32 18 23 29-0077	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 38 Fields.....	26,850.38	
		Note: Graphic.		
32 18 23 29-0078		<b>42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone (AstroTurf® GameDay Grass™ XPe 42)</b> <small>(32 18 23 29-0069)</small>		
32 18 23 29-0079	SF	42 Oz/SY Face Weight, Tufted Slit-Film Polyethylene Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® GameDay Grass™ XPe 42).....	7.84	
		<i>For Ambient Rubber And Sand Infill, Add</i>	0.10	
		<i>For Cryo Rubber Infill, Add</i>	0.26	
		<i>For Ethylene Propylene Diene Monomer (EPDM) Rubber Infill, Add</i>	0.31	
		<i>For Cryo Rubber And Sand Infill, Add</i>	0.36	
32 18 23 29-0080	EA	Football Markings For AstroTurf® GameDay Grass™ XPe 42 Fields .....	26,747.34	
32 18 23 29-0081	EA	Baseball Markings For AstroTurf® GameDay Grass™ XPe 42 Fields .....	20,574.88	
32 18 23 29-0082	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® GameDay Grass™ XPe 42 Fields .....	6,172.46	
		Note: Per sport.		
32 18 23 29-0083	EA	Endzone Lettering For AstroTurf® GameDay Grass™ XPe 42 Fields.....	2,263.24	
		Note: Per letter. Excludes outline.		
32 18 23 29-0084	EA	Colored Endzone For AstroTurf® GameDay Grass™ XPe 42 Fields.....	2,263.24	
		Note: Per endzone.		
32 18 23 29-0085	EA	Simple Logo For AstroTurf® GameDay Grass™ XPe 42 Fields.....	19,546.14	
		Note: Block letter.		
32 18 23 29-0086	EA	Deluxe Logo For AstroTurf® GameDay Grass™ XPe 42 Fields.....	28,341.90	
		Note: Graphic.		
32 18 23 29-0087		<b>Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®)</b> <small>(32 18 23 29-0002)</small>		
32 18 23 29-0088	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Attached Pad (AstroTurf® PureGrass®).....	17.88	
32 18 23 29-0089	SF	Tufted Monofilament Nylon Synthetic Turf With Nylon Root Zone And Ambient Rubber Infill (AstroTurf® PureGrass®).....	15.99	
32 18 23 29-0090	EA	Football Markings For AstroTurf® PureGrass® Fields .....	50,761.81	
32 18 23 29-0091	EA	Baseball Markings For AstroTurf® PureGrass® Fields .....	60,306.76	
32 18 23 29-0092	EA	Soccer, Lacrosse, Softball Or Field Hockey Markings For AstroTurf® PureGrass® Fields .....	14,751.29	
		Note: Per sport.		
32 18 23 29-0093	EA	Endzone Lettering For AstroTurf® PureGrass® Fields.....	5,640.20	
		Note: Per letter. Excludes outline.		
32 18 23 29-0094	EA	Colored Endzone For AstroTurf® PureGrass® Fields.....	4,186.54	
		Note: Per endzone.		
32 18 23 29-0095	EA	Simple Logo For AstroTurf® PureGrass® Fields.....	37,678.87	
		Note: Block letter.		
32 18 23 29-0096	EA	Deluxe Logo For AstroTurf® PureGrass® Fields.....	55,317.35	
		Note: Graphic.		
32 18 23 29-0097		<b>Synthetic Turf (G9 Turf)</b> <small>(32 18 23 29-0001)</small>		
		Note: Includes labor, equipment and material required to install the task.		
32 18 23 29-0098	SF	2-1/2" Height, 53 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Playmaker Turf) .....	9.76	
		Note: For football and multi-sport fields. Excludes preparation of sub-base, grooming, sports lines and logos.		
		<i>For &gt;35,000, Deduct</i>	-0.87	
32 18 23 29-0099	SF	2" Height, 48 Ounce, Tufted 3/8" Gauge Monofilament Synthetic Turf With Thatch Layer And Ethylene Propylene Diene Monomer (EPDM) Infill (G9 Turf Striker Turf).....	9.67	
		Note: For all sports other than football. Excludes preparation of sub-base, grooming, sports lines and logos.		
		<i>For &gt;35,000, Deduct</i>	-0.86	
32 18 23 29-0100	SF	1-3/4" Height, 72 Ounce, Tufted 3/8" Gauge, Two-Color Monofilament Synthetic Turf With Thatch Layer And Acrylic Coated Sand Infill (G9 Turf Perennial Turf).....	10.11	
		Note: For landscaped areas or playgrounds. Excludes preparation of sub-base, grooming, sports lines and logos.		
32 18 23 29-0101	EA	Football Inlays For G9 Synthetic Turf.....	70,193.30	
		Note: Includes field grid, numbers, arrows, coach's box and kick off lines.		
32 18 23 29-0102	EA	Soccer Inlays For G9 Synthetic Turf .....	30,417.10	
32 18 23 29-0103	EA	Boys Lacrosse Inlays For G9 Synthetic Turf.....	30,417.10	
32 18 23 29-0104	EA	Girls Lacrosse Inlays For G9 Synthetic Turf .....	30,417.10	
32 18 23 29-0105	EA	Field Hockey Inlays For G9 Synthetic Turf.....	30,417.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 29-0106 EA Endzone Lettering For G9 Synthetic Turf ..... Note: Priced per letter. Includes single color outlining.	3,509.67	
32 18 23 29-0107 SF Ethylene Propylene Diene Monomer (EPDM) Black Infill For G9 Synthetic Turf .....	3.29	
32 18 23 29-0108 SF Ethylene Propylene Diene Monomer (EPDM) Color Infill For G9 Synthetic Turf .....	8.58	
32 18 23 29-0109 SF Styrene-Butadiene Rubber (SBR) Infill For G9 Synthetic Turf .....	2.45	
32 18 23 29-0110 SF Sand Infill For G9 Synthetic Turf.....	1.24	
32 18 23 29-0111 SF Acrylic Coated Sand Infill For G9 Synthetic Turf.....	2.03	
32 18 23 29-0112 EA Gmax Compaction And Hardness Test For G9 Synthetic Turf ..... Note: Includes a comprehensive report.	2,339.78	
32 18 23 29-0113 EA Safety Bridge Over Track For G9 Synthetic Turf .....	23,397.77	
32 18 23 29-0114 SF Clean And Groom Synthetic Turf..... Note: Includes using equipment to pick up metal particles in the field, air vacuum the top 2-5 mm of infill, clean and screen to remove broken strands, dirt, bandage, etc.	0.77	
<i>For &gt;10,000 To 30,000, Deduct</i>	-0.31	
<i>For &gt;30,000 To 60,000, Deduct</i>	-0.54	
<i>For &gt;60,000, Deduct</i>	-0.59	
32 18 23 29-0115 SF Rejuvenate Synthetic Turf And Reinstall Existing Infill..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes reinstalling the old infill that was removed.	5.25	
32 18 23 29-0116 SF Rejuvenate Synthetic Turf For Installation Of New Infill..... Note: Includes using equipment to extract 10 to 20 mm of infill by delivering high pressure air into the carpet, decompacting the surface and driving out the infill leaving the fiber standing straight up. Includes disposing of the old infill. Excludes new infill.	5.83	
32 18 23 29-0117 SF Drainage Layer For G9 Synthetic Turf ..... Note: Used for drainage over asphalt or on roof tops.	4.78	
32 18 23 29-0118 SF 15 mm, Shock Pad For G9 Synthetic Turf..... Note: Used for additional Gmax for a stone base field.	2.94	
32 18 23 29-0119 EA Single Visit Repair Call To Repair Up To 300 LF Of Inlay Lines Or Seams On G9 Synthetic Turf ..... Note: Includes field inspection and report.	4,663.00	
32 18 23 29-0120 LF Repair Inlay Lines Or Seams On G9 Synthetic Turf..... Note: Linear foot price for repairs over the initial repair call maximum of 300 LF.	12.82	
32 18 23 29-0121 LF Nailer Used To Attach G9 Synthetic Turf.....	5.13	
32 18 23 29-0122 SF Removal And Recycling Of Existing Field..... Note: Includes removal, shipping and recycling of infill, fibers and backing.	3.61	
 <b>32 18 23 33 Running Track Surfacing (32 18 23)</b>		
<b>32 18 23 33-0001 Running Track Surfacing (32 18 23 33)</b>		
32 18 23 33-0002 SY 2-1/2" Asphaltic Concrete Running Track Surfacing.....	33.92	
 <b>32 18 23 33-0003 Running Track Seal And Colored Surfaces (32 18 23 33)</b>		
32 18 23 33-0004 SY 1 Seal Coat, Striping Of Track..... Note: Includes certification.	19.09	
 <b>32 18 23 39 Synthetic Running Track Surfacing (32 18 23)</b>		
<b>32 18 23 39-0001 Synthetic Running Track Surfacing (XPLODE™) And Striping (32 18 23 39)</b>		
Note: Includes labor, equipment and material required to install the task. Excludes asphalt base.		
32 18 23 39-0002 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Or Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Synthetic Running Track Surfacing (XPLODE™ M100).....	73.35	6.79
<i>For Up To 4,000, Add</i>	25.67	
<i>For &gt;5,500, Deduct</i>	-8.07	
32 18 23 39-0003 SY Paved-In-Place Styrene-Butadiene Rubber (SBR) Granule Base Mat With Polyurethane Binder Finished With A Textured And Pigmented Polyurethane And Ethylene Propylene Diene Monomer (EPDM) Rubber Structural Spray Coat, Synthetic Running Track Surfacing (XPLODE™ MS200).....	98.45	6.79
<i>For Up To 4,000, Add</i>	34.46	
<i>For &gt;5,500, Deduct</i>	-10.83	
<i>For Custom Color Upgrade, Add</i>	9.35	
<i>For Aliphatic Top Coating, Add</i>	17.72	
32 18 23 39-0004 SY Paved-In-Place Ethylene Propylene Diene Monomer (EPDM) Rubber Granule Base Mat With Polyurethane Binder, Two-Component Polyurethane Sealer Layer And Two-Component Polyurethane Wearing Layer With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber, Synthetic Running Track Surfacing (XPLODE™ MSX500).....	165.45	6.79
<i>For Up To 4,000, Add</i>	57.91	
<i>For &gt;5,500, Deduct</i>	-9.93	
<i>For Custom Color Upgrade, Add</i>	12.74	
<i>For Aliphatic Top Coating, Add</i>	23.66	
32 18 23 39-0005 SY Full Pour Two-Component Polyurethane Track System With Embedded Ethylene Propylene Diene Monomer (EPDM) Rubber Surface, Synthetic Running Track Surfacing (XPLODE™ MSX5000).....	213.71	6.79
<i>For Up To 4,000, Add</i>	74.80	
<i>For &gt;5,500, Deduct</i>	-12.82	
<i>For Custom Color Upgrade, Add</i>	16.67	
<i>For Aliphatic Top Coating, Add</i>	24.36	
32 18 23 39-0006 SY Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Lightning).....	66.82	
<i>For Up To 4,000, Add</i>	23.39	
<i>For &gt;5,500, Deduct</i>	-7.35	
32 18 23 39-0007 SY Latex Binder, Synthetic Running Track Surfacing (XPLODE™ Plexitrac® Accelerator).....	75.21	
<i>For Up To 4,000, Add</i>	26.32	
<i>For &gt;5,500, Deduct</i>	-10.91	

**32 Exterior Improvements****32 10 Bases, Ballasts, and Paving****32 18 Athletic and Recreational Surfacing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 39-0008 SY Spray Retop XPLODE™ M100/MS200 Running Tracks.....	66.06	
For Up To 4,000, Add	23.12	
For >5,500, Deduct	-6.46	
32 18 23 39-0009 SY Sandwich Retop XPLODE™ MSX500 Running Tracks.....	127.88	
For Up To 4,000, Add	44.76	
For >5,500, Deduct	-13.48	
32 18 23 39-0010 SY Retop XPLODE™ Plexitrac® Lightning Running Tracks.....	37.19	
Note: Two layers.		
For Up To 4,000, Add	13.02	
For >5,500, Deduct	-6.15	
32 18 23 39-0011 SY Retop XPLODE™ Plexitrac® Accelerator Running Tracks.....	45.29	
Note: Two layers.		
For Up To 4,000, Add	15.85	
For >5,500, Deduct	-6.15	
32 18 23 39-0012 EA Restripe XPLODE™ Running Track.....	15,375.25	
Note: Includes two coats of acrylic resurfacer and two coats of color.		
For College Track Restriping, Add	2,795.50	
<b>32 18 23 53 Tennis Court Surfacing (32 18 23)</b>		
<b>32 18 23 53-0001 Tennis Court Surfacing (32 18 23 53)</b>		
See CSI section 32 18 23 61-0000 for 100% acrylic tennis court surfacing.		
32 18 23 53-0002 SY Tennis Court Bituminous Pavement, 2-1/2" Thick.....	36.63	
<b>32 18 23 53-0003 Tennis Court Markings (32 18 23 53)</b>		
32 18 23 53-0004 EA Paint Markings On Asphalt Tennis Court 2 Coats.....	535.73	
<b>32 18 23 56 Natural Tennis Court Surfacing (32 18 23)</b>		
32 18 23 56-0001 SY Clay Tennis Court.....	50.65	
32 18 23 56-0002 SY Tennis Court, Pulverized Natural Greenstone, Fast Dry.....	56.37	
Note: Includes 4" base.		
32 18 23 56-0003 SY Tennis Court, Rubber-Cork Base Resilient Pavement.....	21.02	
32 18 23 56-0004 SY Resurface Clay Tennis Court.....	14.60	
32 18 23 56-0005 SY Resurface Tennis Court, Pulverized Natural Greenstone.....	12.36	
32 18 23 56-0006 SY Resurface Tennis Court, Resilient Pavement.....	8.71	
<b>32 18 23 61 Multi-Use, Tennis Court, Basketball Court Athletic Surfacing (32 18 23)</b>		
<b>32 18 23 61-0001 100% Acrylic Athletic Surfacing System (Plexipave®) (32 18 23 61)</b>		
Note: Excludes asphalt or concrete sub base and repairs of sub base.		
<b>32 18 23 61-0002 Surface Preparation For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)</b>		
32 18 23 61-0003 SY 100% Acrylic Resurfacer, Athletic Surfacing System (California Products Plexipave® Acrylic Resurfacer), Per Coat.....	1.70	
Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
32 18 23 61-0004 SY Acid Etching Concrete Pre-Treatment For Plexipave® Athletic Surfacing System (California Products Plexipave® Concrete Preparer®), Per Coat.....	0.96	
Note: For previously uncoated portland cement concrete. Applied with broom.		
32 18 23 61-0005 SY Two-Part, Water Based Epoxy Primer For Plexipave® Athletic Surfacing System (California Products Plexipave® Ti-Coat®), Per Coat.....	2.50	
Note: For new or uncoated portland cement concrete. Applied with a short nap phenolic roller.		
32 18 23 61-0006 SY Up To 1/2" Thick, Acrylic Latex Patching Compound, Athletic Surfacing System (California Products Plexipave® Court Patch Binder), Per Coat.....	106.32	
Note: For patching depressions and uneven texture in new or existing asphalt or concrete surfaces. Includes ultra fine silica sand and portland cement. Applied with trowel or metal screed.		
<b>32 18 23 61-0007 Surface Coatings For Athletic Surfacing System (Plexipave®) (32 18 23 61-0001)</b>		
Note: Standard color includes dark green, Florida green, light green, maroon, Sahara sand, brown, California red, and cape gray.		
32 18 23 61-0008 SY 100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), First Coat.....	3.99	
Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
For Pacific Blue, Add	0.25	
For US Open Blue, Add	0.87	
32 18 23 61-0009 SY 100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Second Coat.....	3.15	
Note: Includes ultra fine silica sand. Applied with rubber squeegee.		
For Pacific Blue, Add	0.18	
For US Open Blue, Add	0.62	
32 18 23 61-0010 SY 100% Acrylic Emulsion Color Coating, Athletic Surfacing System (California Products Fortified Plexipave®), Third Coat.....	2.69	
Note: Price per coat for third or additional coats. Includes ultra fine silica sand. Applied with rubber squeegee.		
For Pacific Blue, Add	0.14	
For US Open Blue, Add	0.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 18 23 61-0011 SY Non-Textured, 100% Acrylic Emulsion Color Coating Finish, Athletic Surfacing System (California Products Plexipave® Plexichrome®), Per Coat.....	2.87	
Note: Non-textured finish coat over Plexipave® for faster playing surfaces. Applied with rubber squeegee followed by wide hair-type push broom.		
For Pacific Blue, Add	0.08	
For US Open Or Australian Open Blue, Add	0.56	
For Pro Purple, Add	1.46	
<b>32 18 23 61-0012 Line Striping For Athletic Surfacing System (Plexipave®)</b> (32 18 23 61-0001)		
32 18 23 61-0013 SY Tennis Or Basketball Court Line Striping For Athletic Surfacing System, Per SY Of Court (California Products Plexipave® Hi-Hide Plexicolor®).....	1.52	
Note: Textured or non-textured highly reflective line marking paint.		
<b>32 18 23 61-0014 Cushion Coatings For Athletic Surfacing System (Plexipave® Plexicushion®)</b> (32 18 23 61-0001)		
32 18 23 61-0015 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), First Coat.....	6.87	
Note: Applied with rubber squeegee.		
32 18 23 61-0016 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Second Coat.....	9.58	
Note: Applied with rubber squeegee.		
32 18 23 61-0017 SY Resilient Latex Undercoating Base Coat, Athletic Surfacing System (California Products Plexipave® Plexicushion® Base Coat), Third Coat.....	8.16	
Note: Price per coat for third or additional coats. Applied with rubber squeegee.		
32 18 23 61-0018 SY Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), First Coat.....	5.98	
Note: Applied with rubber squeegee.		
32 18 23 61-0019 SY Resilient Latex Undercoating, Athletic Surfacing System (California Products Plexipave® Plexicushion®), Second Coat.....	4.42	
Note: Price per coat for second or additional coats. Applied with rubber squeegee.		
<b>32 18 23 61-0020 Resurface Athletic Court</b> (32 18 23 61)		
Note: Excludes asphalt or concrete sub base and repairs of sub base.		
32 18 23 61-0021 SY Court Resurfacing System, 2 Coats Resurfacer, 2 Coats Color, And Sand (SealMaster).....	2.61	

**32 30 Site Improvements** (32)

**32 31 Fences and Gates** (32 30)

**32 31 11 Gate Operators** (32 31)

32 31 11 00-0001 Gate Operators (32 31 11)

Note: Excludes gates, electrical connections, access controls and concrete foundation.

32 31 11 00-0002 Gate Operators (DKS™ DoorKing®) (32 31 11 00-0001)

32 31 11 00-0003 Swing Gate Actuator (DKS™ DoorKing®) (32 31 11 00-0002)

32 31 11 00-0004 Single Gate, Swing Gate Actuator (32 31 11 00-0003)

32 31 11 00-0005 EA Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)..... 1,967.35 210.93

32 31 11 00-0006 EA Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)..... 2,637.06 210.93

Note: Includes one primary operator with a 10' wide gate capacity.

Note: Includes one primary operator with a 14' wide gate capacity.

32 31 11 00-0007 Dual Gate, Swing Gate Actuator (32 31 11 00-0003)

32 31 11 00-0008 EA Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6003)..... 3,934.69 421.87

32 31 11 00-0009 EA Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Actuator (DKS™ DoorKing® 6002)..... 5,274.11 421.87

Note: Includes one primary and one secondary operator each with a 10' wide gate capacity.

Note: Includes one primary and one secondary operator each with a 14' wide gate capacity.

32 31 11 00-0010 Swing Gate Operators (DKS™ DoorKing®) (32 31 11 00-0002)

32 31 11 00-0011 Single Gate, Swing Gate Operators (32 31 11 00-0010)

32 31 11 00-0012 EA 400 LB Capacity, Up To 10' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6050)..... 4,062.33 210.93

Note: Includes one primary operator with a 10' wide and 400 LB gate capacity.

32 31 11 00-0013 EA 500 LB Capacity, Up To 14' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6100)..... 4,422.95 210.93

Note: Includes one primary operator with a 14' wide and 500 LB gate capacity.

32 31 11 00-0014 EA 700 LB Capacity, Up To 18' Wide Gate, 1/2 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... 6,019.94 210.93

Note: Includes one primary operator with an 18' wide and 700 LB gate capacity.

For 208/230/460 Volt AC, Add 322.50

32 31 11 00-0015 EA 800 LB Capacity, Up To 22' Wide Gate, 1 HP Motor, 115 Volt AC, Single Gate, Swing Gate Operator (DKS™ DoorKing® 6500)..... 6,827.03 210.93

Note: Includes one primary operator with a 22' wide and 800 LB gate capacity.

For 208/230/460 Volt AC, Add 322.50

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 11 00-0016			<b>Dual Gate, Swing Gate Operators</b> (32 31 11 00-0010)		
32 31 11 00-0017	EA		400 LB Capacity, Up To 10' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6050).....	7,180.20	421.87
			Note: Includes one primary and one secondary operator each with a 10' wide and 400 LB gate capacity.		
32 31 11 00-0018	EA		500 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6100).....	7,901.42	421.87
			Note: Includes one primary and one secondary operator each with a 14' wide and 500 LB gate capacity.		
32 31 11 00-0019	EA		700 LB Capacity, Up To 14' Wide Gates, 1/2 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	11,078.24	421.87
			Note: Includes one primary and one secondary operator each with an 18' wide and 700 LB gate capacity.		
			<i>For 208/230/460 Volt AC, Add</i>	322.50	
32 31 11 00-0020	EA		800 LB Capacity, Up To 22' Wide Gates, 1 HP Motor, 115 Volt AC, Dual Gate, Swing Gate Operator (DKS™ DoorKing® 6500).....	12,846.96	421.87
			Note: Includes one primary and one secondary operator each with a 22' wide and 800 LB gate capacity.		
			<i>For 208/230/460 Volt AC, Add</i>	322.50	
32 31 11 00-0021			<b>Sliding Gate Operators (DKS™ DoorKing®)</b> (32 31 11 00-0002)		
			Note: Includes 20' of chain. See CSI section 32 31 11 00-0030 for additional chain over 20'.		
32 31 11 00-0022	EA		300 LB Capacity, Up To 16' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9050).....	2,131.48	210.93
			Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0023	EA		1,000 LB Capacity, Up To 30' Wide Gate, 1/2 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9100).....	2,992.94	253.11
			Note: Includes operator, chain brackets, hardware and 20' of #41 chain.		
32 31 11 00-0024	EA		1,500 LB Capacity, Up To 45' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9150).....	3,718.23	253.11
			Note: Includes operator, chain brackets, hardware and 20' of #40 chain.		
32 31 11 00-0025	EA		3,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 115 Volt AC, Sliding Gate Operator (DKS™ DoorKing® 9210).....	4,864.63	295.30
			Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0026	EA		2,000 LB Capacity, Up To 100' Wide Gate, 1 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9220).....	5,983.64	295.30
			Note: Includes operator, chain brackets, hardware and 20' of #50 chain.		
32 31 11 00-0027	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, Variable Speed, Sliding Gate Operator (DKS™ DoorKing® 9230).....	8,181.71	337.49
			Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0028	EA		5,000 LB Capacity, Up To 100' Wide Gate, 3 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9530).....	13,730.16	337.49
			Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0029	EA		10,000 LB Capacity, Up To 160' Wide Gate, 5 HP Motor, 208/230 Volt AC, High Speed, Sliding Gate Operator (DKS™ DoorKing® 9550).....	23,326.16	379.68
			Note: Includes operator, chain brackets, hardware and 20' of #60 chain.		
32 31 11 00-0030			<b>Accessories For Gate Actuators And Operators (DKS™ DoorKing®)</b> (32 31 11 00-0002)		
32 31 11 00-0031	EA		Single Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9410).....	637.88	
32 31 11 00-0032	EA		Two Channel Detector Loop For Gate Actuators And Operators (DKS™ DoorKing® 9409).....	1,239.71	
32 31 11 00-0033	EA		Heater Kit For Gate Actuators And Operators (DKS™ DoorKing® 1601).....	855.63	
32 31 11 00-0034	EA		Photoelectric Eye For Gate Actuators And Operators (DKS™ DoorKing® 8080-031).....	922.82	
32 31 11 00-0035	EA		Reversing Edge Sensor For Gate Actuators And Operators (DKS™ DoorKing® 8080-020).....	819.79	
32 31 11 00-0036	EA		Post Mount Base Plate For Gate Actuators And Operators (DKS™ DoorKing® 9310).....	570.79	
32 31 11 00-0037	LF		#40 Chain For Sliding Gate Operators.....	6.78	
32 31 11 00-0038	LF		#41 Chain For Sliding Gate Operators.....	7.09	
32 31 11 00-0039	LF		#50 Chain For Sliding Gate Operators.....	9.10	
32 31 11 00-0040	LF		#60 Chain For Sliding Gate Operators.....	14.08	
32 31 11 00-0041	EA		Exterior Keypad Gate Operator (Linear AK-11).....	805.71	192.52
32 31 11 00-0042			<b>Sliding Gate Operator (LiftMaster)</b> (32 31 11 00-0001)		
32 31 11 00-0043	EA		Up To 1,500 LB Capacity, 120/230 Volt, Single Phase, Sliding Gate Operator With 24 Volt DC Motor (Liftmaster® CSL24U).....	2,827.45	259.31
			Note: Includes 30' Chain, Retro-Reflective Photoelectric Sensor and Reflector Hoods (LMRRUL) and 5' Resistive Safety Edge (S505AL).		
			<i>For Monitored Wireless Edge Receiver And Transmitter Option (Liftmaster LMWEKITU), Add</i>	191.03	
			<i>For Plug-In Loop Detector Option (Liftmaster LOOPDETLM), Add</i>	136.74	
			<i>For LED Strobe Light With Siren (Liftmaster SL-1301-SAQ), Add</i>	67.34	
			<i>For 10 Watt Solar Panel (Liftmaster SP10W12V), Add</i>	270.67	
			<i>For Each Additional 10' Chain, Add</i>	40.54	
32 31 13			<b>Chain Link Fences and Gates</b> (32 31)		
32 31 13 13			<b>Chain Link Fences and Gates</b> (32 31 13)		
32 31 13 13-0001			<b>Post Holes</b> (32 31 13 13)		
			Note: Excludes spreading of excess material on site or loading and removal of excavated material from site. See CSI section 02 41 19 13-0025 for core drilling in concrete, 02 41 19 13-0163 for core drilling in asphalt.		
32 31 13 13-0002			<b>Auger By Machine Fence Post Hole In Soil</b> (32 31 13 13-0001)		
32 31 13 13-0003	VLF		Up To 2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	9.77	
32 31 13 13-0004	VLF		2-1/2" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	10.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0005 VLF 3" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	13.02	
32 31 13 13-0006 VLF 4" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	14.65	
32 31 13 13-0007 VLF 6" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	15.99	
32 31 13 13-0008 VLF 8" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	17.58	
32 31 13 13-0009 VLF 10" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	19.53	
32 31 13 13-0010 VLF 12" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	21.98	
32 31 13 13-0011 VLF 18" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	25.12	
32 31 13 13-0012 VLF 24" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	29.30	
32 31 13 13-0013 VLF 30" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	35.17	
32 31 13 13-0014 VLF 36" Diameter Hole, Auger By Machine Fence Post Hole In Soil.....	43.96	
<b>32 31 13 13-0015 Post Hole In Rock</b> (32 31 13 13-0001)		
32 31 13 13-0016 CF Jackhammer Post Hole In Rock.....	71.07	
32 31 13 13-0017 CF Rock Drill Post Hole In Rock.....	21.28	
<b>32 31 13 13-0018 Fill For Post Holes</b> (32 31 13 13-0001)		
See CSI section 03 21 00 00-0000 for reinforcing bars.		
<b>32 31 13 13-0019 Concrete Fill For Post Holes</b> (32 31 13 13-0018)		
32 31 13 13-0020 VLF Up To 2-1/2" Diameter, Concrete Fill For Post Hole.....	6.60	
32 31 13 13-0021 VLF 2-1/2" Diameter, Concrete Fill For Post Hole.....	8.46	
32 31 13 13-0022 VLF 3" Diameter, Concrete Fill For Post Hole.....	9.44	
32 31 13 13-0023 VLF 4" Diameter, Concrete Fill For Post Hole.....	11.13	
32 31 13 13-0024 VLF 6" Diameter, Concrete Fill For Post Hole.....	15.87	
32 31 13 13-0025 VLF 8" Diameter, Concrete Fill For Post Hole.....	21.20	
32 31 13 13-0026 VLF 10" Diameter, Concrete Fill For Post Hole.....	26.02	
32 31 13 13-0027 VLF 12" Diameter, Concrete Fill For Post Hole.....	30.51	
32 31 13 13-0028 VLF 18" Diameter, Concrete Fill For Post Hole.....	42.41	
32 31 13 13-0029 VLF 24" Diameter, Concrete Fill For Post Hole.....	53.47	
32 31 13 13-0030 VLF 30" Diameter, Concrete Fill For Post Hole.....	64.32	
32 31 13 13-0031 VLF 36" Diameter, Concrete Fill For Post Hole.....	75.72	
<b>32 31 13 13-0032 Grout Fill For Post Holes</b> (32 31 13 13-0018)		
32 31 13 13-0033 VLF Up To 2-1/2" Diameter, Grout Fill For Post Hole.....	7.57	
32 31 13 13-0034 VLF 2-1/2" Diameter, Grout Fill For Post Hole.....	9.71	
32 31 13 13-0035 VLF 3" Diameter, Grout Fill For Post Hole.....	10.71	
32 31 13 13-0036 VLF 4" Diameter, Grout Fill For Post Hole.....	12.34	
32 31 13 13-0037 VLF 6" Diameter, Grout Fill For Post Hole.....	17.44	
32 31 13 13-0038 VLF 8" Diameter, Grout Fill For Post Hole.....	23.27	
32 31 13 13-0039 VLF 10" Diameter, Grout Fill For Post Hole.....	28.47	
32 31 13 13-0040 VLF 12" Diameter, Grout Fill For Post Hole.....	33.24	
32 31 13 13-0041 VLF 18" Diameter, Grout Fill For Post Hole.....	45.38	
32 31 13 13-0042 VLF 24" Diameter, Grout Fill For Post Hole.....	56.40	
32 31 13 13-0043 VLF 30" Diameter, Grout Fill For Post Hole.....	67.15	
32 31 13 13-0044 VLF 36" Diameter, Grout Fill For Post Hole.....	78.32	
<b>32 31 13 13-0045 Compacted Earth Fill For Post Holes</b> (32 31 13 13-0018)		
32 31 13 13-0046 VLF Up To 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	4.69	
32 31 13 13-0047 VLF 2-1/2" Diameter, Compacted Earth Fill For Post Hole.....	6.11	
32 31 13 13-0048 VLF 3" Diameter, Compacted Earth Fill For Post Hole.....	6.39	
32 31 13 13-0049 VLF 4" Diameter, Compacted Earth Fill For Post Hole.....	6.57	
32 31 13 13-0050 VLF 6" Diameter, Compacted Earth Fill For Post Hole.....	8.79	
32 31 13 13-0051 VLF 8" Diameter, Compacted Earth Fill For Post Hole.....	11.71	
32 31 13 13-0052 VLF 10" Diameter, Compacted Earth Fill For Post Hole.....	14.06	
32 31 13 13-0053 VLF 12" Diameter, Compacted Earth Fill For Post Hole.....	15.94	
32 31 13 13-0054 VLF 18" Diameter, Compacted Earth Fill For Post Hole.....	19.42	
32 31 13 13-0055 VLF 24" Diameter, Compacted Earth Fill For Post Hole.....	21.80	
32 31 13 13-0056 VLF 30" Diameter, Compacted Earth Fill For Post Hole.....	23.91	
32 31 13 13-0057 VLF 36" Diameter, Compacted Earth Fill For Post Hole.....	25.78	
<b>32 31 13 13-0058 Fence Posts</b> (32 31 13 13)		
Note: Demolition excludes concrete footing removal on posts and excavation. See CSI section 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0001 for drilling for augering holes and backfill.		
<b>32 31 13 13-0059 Fence Posts</b> (32 31 13 13-0058)		
<b>32 31 13 13-0060 1-7/8" H-Beam Post Without Top Rail Fitting, Galvanized Steel</b> (32 31 13 13-0059)		
Note: Includes cap and accessories.		
32 31 13 13-0061 LF 1-7/8" Galvanized H-beam Post, Up To 6' In Length.....	21.12	3.40
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0062 LF 1-7/8" Galvanized H-beam Post, 7' To 10' In Length.....	20.15	2.90
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0063 LF 1-7/8" Galvanized H-beam Post, 11' To 15' In Length.....	18.97	2.39
For Each Top Rail Fitting, Add	0.85	
32 31 13 13-0064 LF 1-7/8" Galvanized H-beam Post, 16' To 20' In Length.....	18.03	1.89
For Each Top Rail Fitting, Add	0.85	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0065	LF	1-7/8" Galvanized H-beam Post, 21' To 24' In Length .....	17.39	1.63
		<i>For Each Top Rail Fitting, Add</i>	0.85	
32 31 13 13-0066	LF	1-7/8" Galvanized H-beam Post, >24' In Length .....	16.41	1.13
		<i>For Each Top Rail Fitting, Add</i>	0.85	
<b>32 31 13 13-0067</b>		<b>Post Without Top Rail Fitting, Galvanized Steel (1.66" Nominal)</b> <small>(32 31 13 13-0059)</small>		
		Note: 1-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0068	LF	Up To 6' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	14.48	3.14
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.05	
		<i>For Vinyl Coated, Add</i>	4.91	
		<i>For Powder Coated, Add</i>	6.54	
		<i>For Aluminum Coated, Add</i>	10.23	
		<i>For Schedule 20, Deduct</i>	-1.64	
		<i>For Schedule 80, Add</i>	4.56	
32 31 13 13-0069	LF	7' To 10' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	13.42	2.64
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.03	
		<i>For Vinyl Coated, Add</i>	4.86	
		<i>For Powder Coated, Add</i>	6.48	
		<i>For Aluminum Coated, Add</i>	10.13	
		<i>For Schedule 20, Deduct</i>	-1.62	
		<i>For Schedule 80, Add</i>	4.42	
32 31 13 13-0070	LF	11' To 15' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	12.31	2.14
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.02	
		<i>For Vinyl Coated, Add</i>	4.84	
		<i>For Powder Coated, Add</i>	6.45	
		<i>For Aluminum Coated, Add</i>	10.08	
		<i>For Schedule 20, Deduct</i>	-1.61	
		<i>For Schedule 80, Add</i>	4.29	
32 31 13 13-0071	LF	16' To 20' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	11.44	1.63
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.01	
		<i>For Vinyl Coated, Add</i>	4.82	
		<i>For Powder Coated, Add</i>	6.43	
		<i>For Aluminum Coated, Add</i>	10.05	
		<i>For Schedule 20, Deduct</i>	-1.61	
		<i>For Schedule 80, Add</i>	4.20	
32 31 13 13-0072	LF	21' To 24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	10.87	1.39
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.01	
		<i>For Vinyl Coated, Add</i>	4.82	
		<i>For Powder Coated, Add</i>	6.42	
		<i>For Aluminum Coated, Add</i>	10.04	
		<i>For Schedule 20, Deduct</i>	-1.61	
		<i>For Schedule 80, Add</i>	4.14	
32 31 13 13-0073	LF	>24' In Length, 1-5/8" Outside Diameter Galvanized Steel Post .....	10.26	1.13
		<i>For Each Top Rail Fitting, Add</i>	0.85	
		<i>For Each Single Barbed Wire Arm, Add</i>	1.90	
		<i>For Each Double Barbed Wire Arm, Add</i>	3.40	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.01	
		<i>For Vinyl Coated, Add</i>	4.82	
		<i>For Powder Coated, Add</i>	6.42	
		<i>For Aluminum Coated, Add</i>	10.04	
		<i>For Schedule 20, Deduct</i>	-1.61	
		<i>For Schedule 80, Add</i>	4.08	
<b>32 31 13 13-0074</b>		<b>Post Without Top Rail Fitting, Galvanized Steel (1.90" Nominal)</b> <small>(32 31 13 13-0059)</small>		
		Note: 2" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0075	LF	2" Outside Diameter Galvanized Steel Post, Up To 6' In Length .....	16.52	3.28
		<i>For Each Top Rail Fitting, Add</i>	1.35	
		<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
		<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
		<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.50	
		<i>For Vinyl Coated, Add</i>	6.01	
		<i>For Powder Coated, Add</i>	8.01	
		<i>For Aluminum Coated, Add</i>	12.51	
		<i>For Schedule 20, Deduct</i>	-2.00	
		<i>For Schedule 80, Add</i>	5.46	





			<b>Exterior Improvements</b>	<b>32</b>
			Site Improvements	32 30
			Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0076 LF 2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	15.54	2.77
<i>For Each Top Rail Fitting, Add</i>	1.35	
<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.48	
<i>For Vinyl Coated, Add</i>	5.94	
<i>For Powder Coated, Add</i>	7.92	
<i>For Aluminum Coated, Add</i>	12.38	
<i>For Schedule 20, Deduct</i>	-1.98	
<i>For Schedule 80, Add</i>	5.32	
32 31 13 13-0077 LF 2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length .....	14.35	2.27
<i>For Each Top Rail Fitting, Add</i>	1.35	
<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.46	
<i>For Vinyl Coated, Add</i>	5.91	
<i>For Powder Coated, Add</i>	7.88	
<i>For Aluminum Coated, Add</i>	12.31	
<i>For Schedule 20, Deduct</i>	-1.97	
<i>For Schedule 80, Add</i>	5.18	
32 31 13 13-0078 LF 2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length .....	13.42	1.77
<i>For Each Top Rail Fitting, Add</i>	1.35	
<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.46	
<i>For Vinyl Coated, Add</i>	5.89	
<i>For Powder Coated, Add</i>	7.86	
<i>For Aluminum Coated, Add</i>	12.28	
<i>For Schedule 20, Deduct</i>	-1.96	
<i>For Schedule 80, Add</i>	5.07	
32 31 13 13-0079 LF 2" Outside Diameter Galvanized Steel Post, 21' To 24' In Length .....	12.81	1.51
<i>For Each Top Rail Fitting, Add</i>	1.35	
<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.45	
<i>For Vinyl Coated, Add</i>	5.89	
<i>For Powder Coated, Add</i>	7.85	
<i>For Aluminum Coated, Add</i>	12.26	
<i>For Schedule 20, Deduct</i>	-1.96	
<i>For Schedule 80, Add</i>	5.01	
32 31 13 13-0080 LF 2" Outside Diameter Galvanized Steel Post, >24' In Length .....	12.25	1.26
<i>For Each Top Rail Fitting, Add</i>	1.35	
<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	2.45	
<i>For Vinyl Coated, Add</i>	5.89	
<i>For Powder Coated, Add</i>	7.85	
<i>For Aluminum Coated, Add</i>	12.26	
<i>For Schedule 20, Deduct</i>	-1.96	
<i>For Schedule 80, Add</i>	4.95	
<b>32 31 13 13-0081 Post Without Top Rail Fitting, Galvanized Steel (2.375" Nominal)</b> <small>(32 31 13 13-0059)</small>		
<small>Note: 2-1/2" outside diameter, Schedule 40. Includes cap and accessories.</small>		
32 31 13 13-0082 LF 2-1/2" Outside Diameter Galvanized Steel Post, Up To 6' In Length .....	20.11	3.52
<i>For Each Top Rail Fitting, Add</i>	1.35	
<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.31	
<i>For Vinyl Coated, Add</i>	7.94	
<i>For Powder Coated, Add</i>	10.59	
<i>For Aluminum Coated, Add</i>	16.55	
<i>For Schedule 20, Deduct</i>	-2.65	
<i>For Schedule 80, Add</i>	7.04	
32 31 13 13-0083 LF 2-1/2" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	19.03	3.02
<i>For Each Top Rail Fitting, Add</i>	1.35	
<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.28	
<i>For Vinyl Coated, Add</i>	7.88	
<i>For Powder Coated, Add</i>	10.50	
<i>For Aluminum Coated, Add</i>	16.41	
<i>For Schedule 20, Deduct</i>	-2.63	
<i>For Schedule 80, Add</i>	6.89	
32 31 13 13-0084 LF 2-1/2" Outside Diameter Galvanized Steel Post, 11' To 15' In Length .....	17.79	2.39
<i>For Each Top Rail Fitting, Add</i>	1.35	
<i>For Each Single Barbed Wire Arm, Add</i>	2.65	
<i>For Each Double Barbed Wire Arm, Add</i>	4.88	
<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	3.27	
<i>For Vinyl Coated, Add</i>	7.84	
<i>For Powder Coated, Add</i>	10.46	
<i>For Aluminum Coated, Add</i>	16.34	
<i>For Schedule 20, Deduct</i>	-2.61	
<i>For Schedule 80, Add</i>	6.75	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0085 LF 2-1/2" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	16.82	1.89
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.26	
For Vinyl Coated, Add	7.82	
For Powder Coated, Add	10.43	
For Aluminum Coated, Add	16.30	
For Schedule 20, Deduct	-2.61	
For Schedule 80, Add	6.64	
32 31 13 13-0086 LF 2-1/2" Outside Diameter Galvanized Steel Post, 21 To 24' In Length.....	16.16	1.63
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.26	
For Vinyl Coated, Add	7.81	
For Powder Coated, Add	10.42	
For Aluminum Coated, Add	16.28	
For Schedule 20, Deduct	-2.60	
For Schedule 80, Add	6.56	
32 31 13 13-0087 LF 2-1/2" Outside Diameter Galvanized Steel Post, >24' In Length.....	15.57	1.26
For Each Top Rail Fitting, Add	1.35	
For Each Single Barbed Wire Arm, Add	2.65	
For Each Double Barbed Wire Arm, Add	4.88	
For SS40 (Hot-Dip Galvanized And Chromated), Add	3.26	
For Vinyl Coated, Add	7.81	
For Powder Coated, Add	10.42	
For Aluminum Coated, Add	16.28	
For Schedule 20, Deduct	-2.60	
For Schedule 80, Add	6.50	
<b>32 31 13 13-0088 Post Without Top Rail Fitting, Galvanized Steel (2.875" Nominal)</b> <small>(32 31 13 13-0059)</small>		
Note: 3" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0089 LF 3" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	27.53	3.78
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.99	
For Vinyl Coated, Add	11.98	
For Powder Coated, Add	15.98	
For Aluminum Coated, Add	24.96	
For Schedule 20, Deduct	-3.99	
For Schedule 80, Add	10.34	
32 31 13 13-0090 LF 3" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	26.24	3.28
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.93	
For Vinyl Coated, Add	11.84	
For Powder Coated, Add	15.78	
For Aluminum Coated, Add	24.66	
For Schedule 20, Deduct	-3.95	
For Schedule 80, Add	10.12	
32 31 13 13-0091 LF 3" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	24.85	2.64
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.90	
For Vinyl Coated, Add	11.76	
For Powder Coated, Add	15.68	
For Aluminum Coated, Add	24.50	
For Schedule 20, Deduct	-3.92	
For Schedule 80, Add	9.93	
32 31 13 13-0092 LF 3" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	23.73	2.14
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.89	
For Vinyl Coated, Add	11.72	
For Powder Coated, Add	15.63	
For Aluminum Coated, Add	24.43	
For Schedule 20, Deduct	-3.91	
For Schedule 80, Add	9.80	
32 31 13 13-0093 LF 3" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	23.01	1.77
For Each Top Rail Fitting, Add	1.85	
For Each Single Barbed Wire Arm, Add	3.85	
For Each Double Barbed Wire Arm, Add	7.05	
For SS40 (Hot-Dip Galvanized And Chromated), Add	4.88	
For Vinyl Coated, Add	11.71	
For Powder Coated, Add	15.61	
For Aluminum Coated, Add	24.39	
For Schedule 20, Deduct	-3.90	
For Schedule 80, Add	9.71	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0094	LF		3" Outside Diameter Galvanized Steel Post, >24' In Length.....	22.34	1.39
			<i>For Each Top Rail Fitting, Add</i>	1.85	
			<i>For Each Single Barbed Wire Arm, Add</i>	3.85	
			<i>For Each Double Barbed Wire Arm, Add</i>	7.05	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	4.88	
			<i>For Vinyl Coated, Add</i>	11.70	
			<i>For Powder Coated, Add</i>	15.60	
			<i>For Aluminum Coated, Add</i>	24.38	
			<i>For Schedule 20, Deduct</i>	-3.90	
			<i>For Schedule 80, Add</i>	9.64	
<b>32 31 13 13-0095</b>			<b>Post Without Top Rail Fitting, Galvanized Steel, (4.00" Nominal)</b> <small>(32 31 13 13-0095)</small>		
			Note: 4" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13 13-0096	LF		4" Outside Diameter Galvanized Steel Post, Up To 6' In Length.....	40.52	4.03
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	8.14	
			<i>For Vinyl Coated, Add</i>	19.54	
			<i>For Powder Coated, Add</i>	26.06	
			<i>For Aluminum Coated, Add</i>	40.71	
			<i>For Schedule 20, Deduct</i>	-6.51	
			<i>For Schedule 80, Add</i>	16.43	
32 31 13 13-0097	LF		4" Outside Diameter Galvanized Steel Post, 7' To 10' In Length.....	38.75	3.28
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	8.03	
			<i>For Vinyl Coated, Add</i>	19.27	
			<i>For Powder Coated, Add</i>	25.70	
			<i>For Aluminum Coated, Add</i>	40.15	
			<i>For Schedule 20, Deduct</i>	-6.42	
			<i>For Schedule 80, Add</i>	16.08	
32 31 13 13-0098	LF		4" Outside Diameter Galvanized Steel Post, 11' To 15' In Length.....	37.42	2.77
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	7.98	
			<i>For Vinyl Coated, Add</i>	19.14	
			<i>For Powder Coated, Add</i>	25.52	
			<i>For Aluminum Coated, Add</i>	39.88	
			<i>For Schedule 20, Deduct</i>	-6.38	
			<i>For Schedule 80, Add</i>	15.86	
32 31 13 13-0099	LF		4" Outside Diameter Galvanized Steel Post, 16' To 20' In Length.....	36.22	2.27
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	7.95	
			<i>For Vinyl Coated, Add</i>	19.07	
			<i>For Powder Coated, Add</i>	25.43	
			<i>For Aluminum Coated, Add</i>	39.74	
			<i>For Schedule 20, Deduct</i>	-6.36	
			<i>For Schedule 80, Add</i>	15.70	
32 31 13 13-0100	LF		4" Outside Diameter Galvanized Steel Post, 21' To 24' In Length.....	36.15	2.27
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	7.93	
			<i>For Vinyl Coated, Add</i>	19.04	
			<i>For Powder Coated, Add</i>	25.38	
			<i>For Aluminum Coated, Add</i>	39.66	
			<i>For Schedule 20, Deduct</i>	-6.35	
			<i>For Schedule 80, Add</i>	15.67	
32 31 13 13-0101	LF		4" Outside Diameter Galvanized Steel Post, >24' In Length.....	34.86	1.63
			<i>For Each Top Rail Fitting, Add</i>	2.60	
			<i>For Each Single Barbed Wire Arm, Add</i>	5.10	
			<i>For Each Double Barbed Wire Arm, Add</i>	11.25	
			<i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i>	7.93	
			<i>For Vinyl Coated, Add</i>	19.03	
			<i>For Powder Coated, Add</i>	25.38	
			<i>For Aluminum Coated, Add</i>	39.65	
			<i>For Schedule 20, Deduct</i>	-6.34	
			<i>For Schedule 80, Add</i>	15.54	
<b>32 31 13 13-0102</b>			<b>Post Without Top Rail Fitting, Galvanized Steel (6.625" Nominal)</b> <small>(32 31 13 13-0099)</small>		
			Note: 6-5/8" outside diameter, Schedule 40. Includes cap and accessories.		

**32 Exterior Improvements**

**32 30 Site Improvements**

**32 31 Fences and Gates**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0103	LF	6-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length .....	79.76	4.41
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	17.73	
			For Vinyl Coated, Add	42.55	
			For Powder Coated, Add	56.74	
			For Aluminum Coated, Add	88.65	
			For Schedule 20, Deduct	-14.18	
			For Schedule 80, Add	34.93	
32 31 13	13-0104	LF	6-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	76.63	3.66
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	17.31	
			For Vinyl Coated, Add	41.54	
			For Powder Coated, Add	55.38	
			For Aluminum Coated, Add	86.54	
			For Schedule 20, Deduct	-13.85	
			For Schedule 80, Add	33.97	
32 31 13	13-0105	LF	6-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length .....	74.53	3.02
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	17.10	
			For Vinyl Coated, Add	41.03	
			For Powder Coated, Add	54.71	
			For Aluminum Coated, Add	85.49	
			For Schedule 20, Deduct	-13.68	
			For Schedule 80, Add	33.44	
32 31 13	13-0106	LF	6-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length .....	72.87	2.39
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	16.99	
			For Vinyl Coated, Add	40.78	
			For Powder Coated, Add	54.37	
			For Aluminum Coated, Add	84.95	
			For Schedule 20, Deduct	-13.59	
			For Schedule 80, Add	33.11	
32 31 13	13-0107	LF	6-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length .....	71.94	2.14
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	16.94	
			For Vinyl Coated, Add	40.65	
			For Powder Coated, Add	54.20	
			For Aluminum Coated, Add	84.69	
			For Schedule 20, Deduct	-13.55	
			For Schedule 80, Add	32.94	
32 31 13	13-0108	LF	6-5/8" Outside Diameter Galvanized Steel Post, >24' In Length .....	71.21	1.77
			For Each Top Rail Fitting, Add	4.55	
			For Each Single Barbed Wire Arm, Add	7.15	
			For Each Double Barbed Wire Arm, Add	14.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	16.93	
			For Vinyl Coated, Add	40.63	
			For Powder Coated, Add	54.17	
			For Aluminum Coated, Add	84.64	
			For Schedule 20, Deduct	-13.54	
			For Schedule 80, Add	32.85	
32 31 13	13-0109		<b>Post Without Top Rail Fitting, Galvanized Steel (8.625" Nominal)</b> <small>(32 31 13 13-0059)</small>		
			Note: 8-5/8" outside diameter, Schedule 40. Includes cap and accessories.		
32 31 13	13-0110	LF	8-5/8" Outside Diameter Galvanized Steel Post, Up To 6' In Length .....	154.87	4.91
			For Each Top Rail Fitting, Add	7.50	
			For Each Single Barbed Wire Arm, Add	9.15	
			For Each Double Barbed Wire Arm, Add	18.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	36.27	
			For Vinyl Coated, Add	87.04	
			For Powder Coated, Add	116.05	
			For Aluminum Coated, Add	181.33	
			For Schedule 20, Deduct	-29.01	
			For Schedule 80, Add	70.61	
32 31 13	13-0111	LF	8-5/8" Outside Diameter Galvanized Steel Post, 7' To 10' In Length .....	149.91	4.16
			For Each Top Rail Fitting, Add	7.50	
			For Each Single Barbed Wire Arm, Add	9.15	
			For Each Double Barbed Wire Arm, Add	18.95	
			For SS40 (Hot-Dip Galvanized And Chromated), Add	35.43	
			For Vinyl Coated, Add	85.02	
			For Powder Coated, Add	113.36	
			For Aluminum Coated, Add	177.13	
			For Schedule 20, Deduct	-28.34	
			For Schedule 80, Add	68.84	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0112	LF	8-5/8" Outside Diameter Galvanized Steel Post, 11' To 15' In Length..... <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>	146.83 7.50 9.15 18.95 35.01 84.01 112.02 175.03 -28.00 67.89	3.40
32 31 13	13-0113	LF	8-5/8" Outside Diameter Galvanized Steel Post, 16' To 20' In Length..... <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>	144.58 7.50 9.15 18.95 34.80 83.51 111.34 173.98 -27.84 67.35	2.64
32 31 13	13-0114	LF	8-5/8" Outside Diameter Galvanized Steel Post, 21' To 24' In Length..... <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>	143.42 7.50 9.15 18.95 34.69 83.26 111.01 173.45 -27.75 67.07	2.27
32 31 13	13-0115	LF	8-5/8" Outside Diameter Galvanized Steel Post, >24' In Length..... <i>For Each Top Rail Fitting, Add</i> <i>For Each Single Barbed Wire Arm, Add</i> <i>For Each Double Barbed Wire Arm, Add</i> <i>For SS40 (Hot-Dip Galvanized And Chromated), Add</i> <i>For Vinyl Coated, Add</i> <i>For Powder Coated, Add</i> <i>For Aluminum Coated, Add</i> <i>For Schedule 20, Deduct</i> <i>For Schedule 80, Add</i>	142.57 7.50 9.15 18.95 34.67 83.21 110.94 173.35 -27.74 66.96	1.89
32 31 13	13-0116		<b>Driven Post Supports</b> (32 31 13 13) Note: OZ-Post.		
32 31 13	13-0117		<b>Driven Post Support For Round Chain Link Fence Posts</b> (32 31 13 13-0116)		
32 31 13	13-0118	EA	26" Driven Post Support For 1-5/8" Round Chain Link Fence Post..... Note: OZ-Post GB-700.	78.59	
32 31 13	13-0119	EA	26" Driven Post Support For 1-7/8" To 2" Round Chain Link Fence Post..... Note: OZ-Post HB-700.	78.59	
32 31 13	13-0120	EA	26" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post IS-600.	80.62	
32 31 13	13-0121	EA	32" Driven Post Support For 2-3/8" To 2-1/2" Round Chain Link Fence Post..... Note: OZ-Post ISW-850.	96.90	
32 31 13	13-0122		<b>Driven Post Support For Square Ornamental Fence Posts</b> (32 31 13 13-0116)		
32 31 13	13-0123	EA	34" Driven Post Support For 1-3/4" Square Ornamental Fence Post..... Note: OZ-Post C175-850.	90.81	
32 31 13	13-0124	EA	24" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-600.	87.76	
32 31 13	13-0125	EA	34" Driven Post Support For 2" Square Ornamental Fence Post..... Note: OZ-Post I2-850.	91.42	
32 31 13	13-0126	EA	34" Driven Post Support For 2-1/2" Square Ornamental Fence Post..... Note: OZ-Post I25-850.	96.90	
32 31 13	13-0127	EA	34" Driven Post Support For 3" Square Ornamental Fence Post..... Note: OZ-Post I3-850.	96.90	
32 31 13	13-0128		<b>Driven Post Support For Wooden Fence Posts</b> (32 31 13 13-0116)		
32 31 13	13-0129	EA	24" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-600.	89.42	
32 31 13	13-0130	EA	34" Driven Post Support For 3-1/2" Square Wooden Fence Post..... Note: OZ-Post T4-850.	93.85	
32 31 13	13-0131	EA	34" Driven Post Support For 3-3/4" Square Wooden Fence Post..... Note: OZ-Post C4-850.	100.97	
32 31 13	13-0132	EA	34" Driven Post Support For 4" Square Wooden Fence Post..... Note: OZ-Post P4-850.	100.97	
32 31 13	13-0133	EA	36" Driven Post Support For 4" x 6" Wooden Fence Post..... Note: OZ-Post T46-850.	114.18	
32 31 13	13-0134	EA	36" Driven Post Support For 6" Square Wooden Fence Post..... Note: OZ-Post T6-850.	123.52	
32 31 13	13-0135		<b>Driven Post Support For Vinyl Fence Posts</b> (32 31 13 13-0116)		

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0136 EA 24" Driven Post Support For 3-1/2" Square Vinyl Fence Post ..... Note: OZ-Post T4-600.	89.42	
32 31 13 13-0137 EA 34" Driven Post Support For 3-1/2" Square Vinyl Fence Post ..... Note: OZ-Post T4-850.	93.85	
32 31 13 13-0138 EA 34" Driven Post Support For 4" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	100.97	
32 31 13 13-0139 EA 34" Driven Post Support For 5" Square Vinyl Fence Post..... Note: OZ-Post P4-850.	102.59	
<b>32 31 13 13-0140 Chain Link Fence Assemblies (32 31 13 13)</b>		
<b>32 31 13 13-0141 Chain Link Fence Assembly With 2-1/2" Line Post And 3" Corner Posts (32 31 13-0140)</b> Note: Includes 2" 9 gauge coiled spring mesh (knuckled selvedge), tension bars, post tension bands, wire ties, truss rod (at corners or posts), 1-5/8" top rail, 1-5/8" bottom rail, 2-1/2" line post and 3" corner posts. Posts exclude drilling or augering in soil or rock, concrete or soil fill. Heights indicated are from ground to top of installed pole. Minimum 2' bury with up to one third of exposed post height to be buried in ground. Excludes grounding. Demolition excludes concrete footing removal on posts and excavation. See CSI section 26 05 26 00-0000 for grounding, 31 23 16 36-0009 for hand excavation for footing removal (where required), 32 31 13 13-0665 for barb wire attachments.		
<b>32 31 13 13-0142 Galvanized (32 31 13 13-0141)</b>		
32 31 13 13-0143 LF 3' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post ..... <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For &gt;100 To 250, Add</i> <i>For &gt;2,500 To 5,000, Deduct</i> <i>For &gt;5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	41.19	4.28
32 31 13 13-0144 LF 3'-6" Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post ..... <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For &gt;100 To 250, Add</i> <i>For &gt;2,500 To 5,000, Deduct</i> <i>For &gt;5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	42.79	4.28
32 31 13 13-0145 LF 4' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post ..... <i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i> <i>For 13 Gauge Fabric, Deduct</i> <i>For 11 Gauge Fabric, Deduct</i> <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For 2-3/8" Mesh Fabric, Deduct</i> <i>For Posts 8' On Centers, Add</i> <i>For Posts 5' On Centers, Add</i> <i>For Up To 100, Add</i> <i>For &gt;100 To 250, Add</i> <i>For &gt;2,500 To 5,000, Deduct</i> <i>For &gt;5,000, Deduct</i> <i>For 3/8" Non-Climbable Mesh, Add</i>	44.22	4.28



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
32 31 13 13-0146 LF 5' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	47.55	4.28
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.27	
<i>For 13 Gauge Fabric, Deduct</i>	-10.32	
<i>For 11 Gauge Fabric, Deduct</i>	-6.03	
<i>For 6 Gauge Fabric, Add</i>	9.47	
<i>For 1" Mesh Fabric, Add</i>	12.92	
<i>For 1-3/4" Mesh Fabric, Add</i>	5.17	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.58	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.44	
<i>For Posts 8' On Centers, Add</i>	2.59	
<i>For Posts 5' On Centers, Add</i>	9.72	
<i>For Up To 100, Add</i>	8.92	
<i>For &gt;100 To 250, Add</i>	3.27	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.64	
<i>For &gt;5,000, Deduct</i>	-3.27	
<i>For 3/8" Non-Climbable Mesh, Add</i>	49.82	
32 31 13 13-0147 LF 6' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	51.49	4.28
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.53	
<i>For 13 Gauge Fabric, Deduct</i>	-11.29	
<i>For 11 Gauge Fabric, Deduct</i>	-6.59	
<i>For 6 Gauge Fabric, Add</i>	10.36	
<i>For 1" Mesh Fabric, Add</i>	14.13	
<i>For 1-3/4" Mesh Fabric, Add</i>	5.65	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.83	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.77	
<i>For Posts 8' On Centers, Add</i>	2.80	
<i>For Posts 5' On Centers, Add</i>	10.50	
<i>For Up To 100, Add</i>	9.62	
<i>For &gt;100 To 250, Add</i>	3.53	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.76	
<i>For &gt;5,000, Deduct</i>	-3.53	
<i>For 3/8" Non-Climbable Mesh, Add</i>	58.64	
32 31 13 13-0148 LF 7' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	53.43	6.42
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.66	
<i>For 13 Gauge Fabric, Deduct</i>	-11.71	
<i>For 11 Gauge Fabric, Deduct</i>	-6.84	
<i>For 6 Gauge Fabric, Add</i>	10.75	
<i>For 1" Mesh Fabric, Add</i>	14.66	
<i>For 1-3/4" Mesh Fabric, Add</i>	5.86	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.93	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.91	
<i>For Posts 8' On Centers, Add</i>	2.91	
<i>For Posts 5' On Centers, Add</i>	10.90	
<i>For Up To 100, Add</i>	9.99	
<i>For &gt;100 To 250, Add</i>	3.66	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.83	
<i>For &gt;5,000, Deduct</i>	-3.66	
<i>For 3/8" Non-Climbable Mesh, Add</i>	67.61	
32 31 13 13-0149 LF 8' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	60.61	7.49
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.08	
<i>For 13 Gauge Fabric, Deduct</i>	-13.76	
<i>For 11 Gauge Fabric, Deduct</i>	-8.04	
<i>For 6 Gauge Fabric, Add</i>	12.63	
<i>For 1" Mesh Fabric, Add</i>	17.23	
<i>For 1-3/4" Mesh Fabric, Add</i>	6.89	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.45	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.59	
<i>For Posts 8' On Centers, Add</i>	3.28	
<i>For Posts 5' On Centers, Add</i>	12.28	
<i>For Up To 100, Add</i>	11.19	
<i>For &gt;100 To 250, Add</i>	4.08	
<i>For &gt;2,500 To 5,000, Deduct</i>	-2.04	
<i>For &gt;5,000, Deduct</i>	-4.08	
<i>For 3/8" Non-Climbable Mesh, Add</i>	76.68	
32 31 13 13-0150 LF 9' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post	64.64	9.63
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.33	
<i>For 13 Gauge Fabric, Deduct</i>	-14.81	
<i>For 11 Gauge Fabric, Deduct</i>	-8.65	
<i>For 6 Gauge Fabric, Add</i>	13.60	
<i>For 1" Mesh Fabric, Add</i>	18.54	
<i>For 1-3/4" Mesh Fabric, Add</i>	7.42	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.71	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.95	
<i>For Posts 8' On Centers, Add</i>	3.50	
<i>For Posts 5' On Centers, Add</i>	13.07	
<i>For Up To 100, Add</i>	11.90	
<i>For &gt;100 To 250, Add</i>	4.33	
<i>For &gt;2,500 To 5,000, Deduct</i>	-2.17	
<i>For &gt;5,000, Deduct</i>	-4.33	
<i>For 3/8" Non-Climbable Mesh, Add</i>	84.57	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0151 LF 10' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	68.67	10.70
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.58	
<i>For 13 Gauge Fabric, Deduct</i>	-15.86	
<i>For 11 Gauge Fabric, Deduct</i>	-9.27	
<i>For 6 Gauge Fabric, Add</i>	14.56	
<i>For 1" Mesh Fabric, Add</i>	19.86	
<i>For 1-3/4" Mesh Fabric, Add</i>	7.94	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.97	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.30	
<i>For Posts 8' On Centers, Add</i>	3.71	
<i>For Posts 5' On Centers, Add</i>	13.86	
<i>For Up To 100, Add</i>	12.60	
<i>For &gt;100 To 250, Add</i>	4.58	
<i>For &gt;2,500 To 5,000, Deduct</i>	-2.29	
<i>For &gt;5,000, Deduct</i>	-4.58	
<i>For 3/8" Non-Climbable Mesh, Add</i>	92.72	
32 31 13 13-0152 LF 12' Galvanized Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	76.24	12.84
<i>For Each Additional Foot &gt;12, Add</i>	4.25	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	5.06	
<i>For 13 Gauge Fabric, Deduct</i>	-17.82	
<i>For 11 Gauge Fabric, Deduct</i>	-10.41	
<i>For 6 Gauge Fabric, Add</i>	16.36	
<i>For 1" Mesh Fabric, Add</i>	22.31	
<i>For 1-3/4" Mesh Fabric, Add</i>	8.92	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.46	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.95	
<i>For Posts 8' On Centers, Add</i>	4.11	
<i>For Posts 5' On Centers, Add</i>	15.34	
<i>For Up To 100, Add</i>	13.93	
<i>For &gt;100 To 250, Add</i>	5.06	
<i>For &gt;2,500 To 5,000, Deduct</i>	-2.53	
<i>For &gt;5,000, Deduct</i>	-5.06	
<i>For 3/8" Non-Climbable Mesh, Add</i>	100.56	
<b>32 31 13 13-0153 Vinyl Coated</b> <small>(32 31 13 13-0141)</small>		
32 31 13 13-0154 LF 4' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	45.79	4.28
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.27	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.15	
<i>For 13 Gauge Fabric, Deduct</i>	-9.90	
<i>For 11 Gauge Fabric, Deduct</i>	-5.78	
<i>For 6 Gauge Fabric, Add</i>	9.09	
<i>For 1" Mesh Fabric, Add</i>	12.39	
<i>For 1-3/4" Mesh Fabric, Add</i>	4.96	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.48	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.30	
<i>For Posts 8' On Centers, Add</i>	2.50	
<i>For Posts 5' On Centers, Add</i>	9.37	
<i>For Up To 100, Add</i>	8.60	
<i>For &gt;100 To 250, Add</i>	3.15	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.58	
<i>For &gt;5,000, Deduct</i>	-3.15	
<i>For 3/8" Non-Climbable Mesh, Add</i>	46.00	
32 31 13 13-0155 LF 5' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	49.52	4.28
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	4.75	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.37	
<i>For 13 Gauge Fabric, Deduct</i>	-11.00	
<i>For 11 Gauge Fabric, Deduct</i>	-6.43	
<i>For 6 Gauge Fabric, Add</i>	10.10	
<i>For 1" Mesh Fabric, Add</i>	13.77	
<i>For 1-3/4" Mesh Fabric, Add</i>	5.51	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.75	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.67	
<i>For Posts 8' On Centers, Add</i>	2.69	
<i>For Posts 5' On Centers, Add</i>	10.07	
<i>For Up To 100, Add</i>	9.21	
<i>For &gt;100 To 250, Add</i>	3.37	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.68	
<i>For &gt;5,000, Deduct</i>	-3.37	
<i>For 3/8" Non-Climbable Mesh, Add</i>	56.01	





<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0156 LF 6' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post .....	55.50	4.28
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	5.47	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.73	
<i>For 13 Gauge Fabric, Deduct</i>	-12.68	
<i>For 11 Gauge Fabric, Deduct</i>	-7.41	
<i>For 6 Gauge Fabric, Add</i>	11.64	
<i>For 1" Mesh Fabric, Add</i>	15.87	
<i>For 1-3/4" Mesh Fabric, Add</i>	6.35	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.17	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.23	
<i>For Posts 8' On Centers, Add</i>	3.00	
<i>For Posts 5' On Centers, Add</i>	11.23	
<i>For Up To 100, Add</i>	10.23	
<i>For &gt;100 To 250, Add</i>	3.73	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.86	
<i>For &gt;5,000, Deduct</i>	-3.73	
<i>For 3/8" Non-Climbable Mesh, Add</i>	66.06	
32 31 13 13-0157 LF 7' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post .....	58.09	6.42
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	5.75	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	3.89	
<i>For 13 Gauge Fabric, Deduct</i>	-13.33	
<i>For 11 Gauge Fabric, Deduct</i>	-7.79	
<i>For 6 Gauge Fabric, Add</i>	12.24	
<i>For 1" Mesh Fabric, Add</i>	16.69	
<i>For 1-3/4" Mesh Fabric, Add</i>	6.67	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.34	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-4.45	
<i>For Posts 8' On Centers, Add</i>	3.14	
<i>For Posts 5' On Centers, Add</i>	11.74	
<i>For Up To 100, Add</i>	10.69	
<i>For &gt;100 To 250, Add</i>	3.89	
<i>For &gt;2,500 To 5,000, Deduct</i>	-1.95	
<i>For &gt;5,000, Deduct</i>	-3.89	
<i>For 3/8" Non-Climbable Mesh, Add</i>	76.28	
32 31 13 13-0158 LF 8' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post .....	66.03	7.49
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	6.75	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.35	
<i>For 13 Gauge Fabric, Deduct</i>	-15.64	
<i>For 11 Gauge Fabric, Deduct</i>	-9.14	
<i>For 6 Gauge Fabric, Add</i>	14.36	
<i>For 1" Mesh Fabric, Add</i>	19.58	
<i>For 1-3/4" Mesh Fabric, Add</i>	7.83	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-3.92	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.22	
<i>For Posts 8' On Centers, Add</i>	3.55	
<i>For Posts 5' On Centers, Add</i>	13.25	
<i>For Up To 100, Add</i>	12.01	
<i>For &gt;100 To 250, Add</i>	4.35	
<i>For &gt;2,500 To 5,000, Deduct</i>	-2.18	
<i>For &gt;5,000, Deduct</i>	-4.35	
<i>For 3/8" Non-Climbable Mesh, Add</i>	86.58	
32 31 13 13-0159 LF 9' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post .....	70.46	9.63
<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	7.27	
<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.62	
<i>For 13 Gauge Fabric, Deduct</i>	-16.84	
<i>For 11 Gauge Fabric, Deduct</i>	-9.84	
<i>For 6 Gauge Fabric, Add</i>	15.46	
<i>For 1" Mesh Fabric, Add</i>	21.08	
<i>For 1-3/4" Mesh Fabric, Add</i>	8.43	
<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.22	
<i>For 2-3/8" Mesh Fabric, Deduct</i>	-5.62	
<i>For Posts 8' On Centers, Add</i>	3.79	
<i>For Posts 5' On Centers, Add</i>	14.11	
<i>For Up To 100, Add</i>	12.77	
<i>For &gt;100 To 250, Add</i>	4.62	
<i>For &gt;2,500 To 5,000, Deduct</i>	-2.31	
<i>For &gt;5,000, Deduct</i>	-4.62	
<i>For 3/8" Non-Climbable Mesh, Add</i>	95.59	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0160	LF	10' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	74.89	10.70
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	7.78	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	4.90	
			<i>For 13 Gauge Fabric, Deduct</i>	-18.02	
			<i>For 11 Gauge Fabric, Deduct</i>	-10.53	
			<i>For 6 Gauge Fabric, Add</i>	16.55	
			<i>For 1" Mesh Fabric, Add</i>	22.56	
			<i>For 1-3/4" Mesh Fabric, Add</i>	9.03	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.51	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-6.02	
			<i>For Posts 8' On Centers, Add</i>	4.02	
			<i>For Posts 5' On Centers, Add</i>	14.98	
			<i>For Up To 100, Add</i>	13.54	
			<i>For &gt;100 To 250, Add</i>	4.90	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-2.45	
			<i>For &gt;5,000, Deduct</i>	-4.90	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	104.86	
32 31 13	13-0161	LF	12' Vinyl Cover Chain Link Fence, 9 Gauge Coiled Spring Mesh, Top And Bottom Rails, 2-1/2" Line Post At 10' On Center, 3" Corner Post.....	81.71	12.84
			<i>For Each Additional Foot &gt;12, Add</i>	4.50	
			<i>For Powder Coated Framework (Posts, Rails, Hardware), Add</i>	8.51	
			<i>For Surface Mount On Concrete (Excludes Drilling And Anchors), Add</i>	5.33	
			<i>For 13 Gauge Fabric, Deduct</i>	-19.72	
			<i>For 11 Gauge Fabric, Deduct</i>	-11.52	
			<i>For 6 Gauge Fabric, Add</i>	18.11	
			<i>For 1" Mesh Fabric, Add</i>	24.69	
			<i>For 1-3/4" Mesh Fabric, Add</i>	9.88	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-4.94	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-6.58	
			<i>For Posts 8' On Centers, Add</i>	4.38	
			<i>For Posts 5' On Centers, Add</i>	16.33	
			<i>For Up To 100, Add</i>	14.75	
			<i>For &gt;100 To 250, Add</i>	5.33	
			<i>For &gt;2,500 To 5,000, Deduct</i>	-2.67	
			<i>For &gt;5,000, Deduct</i>	-5.33	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	113.72	
32 31 13	13-0162		<b>Rails</b> <small>(32 31 13 13)</small>		
			Note: Includes rail end fittings.		
32 31 13	13-0163		<b>SS-20 Chain Link Fence Rails</b> <small>(32 31 13 13-0162)</small>		
			Note: Includes tie wires.		
32 31 13	13-0164	LF	1-3/8" Galvanized Steel Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	7.47	1.39
			<i>For SS15, Deduct</i>	-0.46	
			<i>For SS40, Add</i>	1.14	
32 31 13	13-0165	LF	1-3/8" Vinyl Coated Rail, 0.08" Wall Thickness, Tie Wires And Fittings.....	9.00	1.39
			<i>For SS40, Add</i>	0.61	
			<i>For Powder Coated, Add</i>	1.22	
			<i>For Aluminum Coated, Add</i>	2.44	
32 31 13	13-0166	LF	1-5/8" Galvanized Steel Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	9.23	1.58
			<i>For SS15, Deduct</i>	-0.61	
			<i>For SS40, Add</i>	1.52	
32 31 13	13-0167	LF	1-5/8" Vinyl Coated Rail, 0.085" Wall Thickness, Tie Wires And Fittings.....	11.28	1.58
			<i>For SS40, Add</i>	0.81	
			<i>For Powder Coated, Add</i>	1.63	
			<i>For Aluminum Coated, Add</i>	3.26	
32 31 13	13-0168	LF	2" Galvanized Steel Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	10.82	1.77
			<i>For SS40, Add</i>	1.83	
32 31 13	13-0169	LF	2" Vinyl Coated Rail, 0.09" Wall Thickness, Tie Wires And Fittings.....	13.29	1.77
			<i>For SS40, Add</i>	0.98	
			<i>For Powder Coated, Add</i>	1.95	
			<i>For Aluminum Coated, Add</i>	3.91	
32 31 13	13-0170		<b>Fabric</b> <small>(32 31 13 13)</small>		
32 31 13	13-0171		<b>Fabric, Galvanized Chain Link</b> <small>(32 31 13 13-0170)</small>		
32 31 13	13-0172	LF	3' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	12.04	2.52
			<i>For 1-1/4" Mesh Fabric, Add</i>	1.08	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	0.96	
			<i>For 13 Gauge Fabric, Deduct</i>	-1.73	
			<i>For 11 Gauge Fabric, Deduct</i>	-0.96	
			<i>For 6 Gauge Fabric, Add</i>	3.08	
			<i>For 1" Mesh Fabric, Add</i>	2.89	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1.93	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.16	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.58	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-0.77	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	32.93	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0173 LF 3'-6" Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh .....	13.30	2.83
For 1-1/4" Mesh Fabric, Add	1.26	
For 2 Oz Galvanized Or Zinc Coating, Add	1.12	
For 13 Gauge Fabric, Deduct	-2.02	
For 11 Gauge Fabric, Deduct	-1.12	
For 6 Gauge Fabric, Add	3.59	
For 1" Mesh Fabric, Add	3.37	
For 1-1/4" Mesh Fabric, Add	2.25	
For 1-3/4" Mesh Fabric, Add	1.35	
For 2-1/8" Mesh Fabric, Deduct	-0.67	
For 2-3/8" Mesh Fabric, Deduct	-0.90	
For 3/8" Non-Climbable Mesh, Add	37.67	
32 31 13 13-0174 LF 4' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	14.38	3.14
For 1-1/4" Mesh Fabric, Add	1.38	
For 2 Oz Galvanized Or Zinc Coating, Add	1.24	
For 13 Gauge Fabric, Deduct	-2.22	
For 11 Gauge Fabric, Deduct	-1.24	
For 6 Gauge Fabric, Add	3.95	
For 1" Mesh Fabric, Add	3.71	
For 1-1/4" Mesh Fabric, Add	2.47	
For 1-3/4" Mesh Fabric, Add	1.48	
For 2-1/8" Mesh Fabric, Deduct	-0.74	
For 2-3/8" Mesh Fabric, Deduct	-0.99	
For 3/8" Non-Climbable Mesh, Add	42.46	
32 31 13 13-0175 LF 5' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	16.24	3.78
For 1-1/4" Mesh Fabric, Add	1.72	
For 2 Oz Galvanized Or Zinc Coating, Add	1.54	
For 13 Gauge Fabric, Deduct	-2.77	
For 11 Gauge Fabric, Deduct	-1.54	
For 6 Gauge Fabric, Add	4.93	
For 1" Mesh Fabric, Add	4.62	
For 1-1/4" Mesh Fabric, Add	3.08	
For 1-3/4" Mesh Fabric, Add	1.85	
For 2-1/8" Mesh Fabric, Deduct	-0.92	
For 2-3/8" Mesh Fabric, Deduct	-1.23	
For 3/8" Non-Climbable Mesh, Add	51.33	
32 31 13 13-0176 LF 6' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	18.19	4.41
For 1-1/4" Mesh Fabric, Add	2.07	
For 2 Oz Galvanized Or Zinc Coating, Add	1.85	
For 13 Gauge Fabric, Deduct	-3.33	
For 11 Gauge Fabric, Deduct	-1.85	
For 6 Gauge Fabric, Add	5.92	
For 1" Mesh Fabric, Add	5.55	
For 1-1/4" Mesh Fabric, Add	3.70	
For 1-3/4" Mesh Fabric, Add	2.22	
For 2-1/8" Mesh Fabric, Deduct	-1.11	
For 2-3/8" Mesh Fabric, Deduct	-1.48	
For 3/8" Non-Climbable Mesh, Add	60.27	
32 31 13 13-0177 LF 7' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	20.23	5.03
For 1-1/4" Mesh Fabric, Add	2.41	
For 2 Oz Galvanized Or Zinc Coating, Add	2.15	
For 13 Gauge Fabric, Deduct	-3.87	
For 11 Gauge Fabric, Deduct	-2.15	
For 6 Gauge Fabric, Add	6.89	
For 1" Mesh Fabric, Add	6.46	
For 1-1/4" Mesh Fabric, Add	4.31	
For 1-3/4" Mesh Fabric, Add	2.58	
For 2-1/8" Mesh Fabric, Deduct	-1.29	
For 2-3/8" Mesh Fabric, Deduct	-1.72	
For 3/8" Non-Climbable Mesh, Add	69.35	
32 31 13 13-0178 LF 8' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	22.44	6.30
For 1-1/4" Mesh Fabric, Add	2.76	
For 2 Oz Galvanized Or Zinc Coating, Add	2.46	
For 13 Gauge Fabric, Deduct	-4.43	
For 11 Gauge Fabric, Deduct	-2.46	
For 6 Gauge Fabric, Add	7.88	
For 1" Mesh Fabric, Add	7.39	
For 1-1/4" Mesh Fabric, Add	4.93	
For 1-3/4" Mesh Fabric, Add	2.96	
For 2-1/8" Mesh Fabric, Deduct	-1.48	
For 2-3/8" Mesh Fabric, Deduct	-1.97	
For 3/8" Non-Climbable Mesh, Add	78.58	
32 31 13 13-0179 LF 10' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	26.70	6.92
For 1-1/4" Mesh Fabric, Add	3.58	
For 2 Oz Galvanized Or Zinc Coating, Add	3.20	
For 13 Gauge Fabric, Deduct	-5.76	
For 11 Gauge Fabric, Deduct	-3.20	
For 6 Gauge Fabric, Add	10.24	
For 1" Mesh Fabric, Add	9.60	
For 1-1/4" Mesh Fabric, Add	6.40	
For 1-3/4" Mesh Fabric, Add	3.84	
For 2-1/8" Mesh Fabric, Deduct	-1.92	
For 2-3/8" Mesh Fabric, Deduct	-2.56	
For 3/8" Non-Climbable Mesh, Add	94.81	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0180	LF	12' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	30.45	7.56
			<i>For 1-1/4" Mesh Fabric, Add</i>	4.30	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	3.84	
			<i>For 13 Gauge Fabric, Deduct</i>	-6.90	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.84	
			<i>For 6 Gauge Fabric, Add</i>	12.27	
			<i>For 1" Mesh Fabric, Add</i>	11.51	
			<i>For 1-1/4" Mesh Fabric, Add</i>	7.67	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.60	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.30	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.07	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	102.82	
32 31 13	13-0181	LF	14' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	34.11	8.81
			<i>For 1-1/4" Mesh Fabric, Add</i>	4.61	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	4.12	
			<i>For 13 Gauge Fabric, Deduct</i>	-7.42	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.12	
			<i>For 6 Gauge Fabric, Add</i>	13.18	
			<i>For 1" Mesh Fabric, Add</i>	12.36	
			<i>For 1-1/4" Mesh Fabric, Add</i>	8.24	
			<i>For 1-3/4" Mesh Fabric, Add</i>	4.94	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.47	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.30	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	112.17	
32 31 13	13-0182	LF	16' Full Height Fabric Galvanized Chain Link #9 Gauge, 1.2 Oz Coating, 2" Mesh.....	37.76	10.08
			<i>For 1-1/4" Mesh Fabric, Add</i>	4.93	
			<i>For 2 Oz Galvanized Or Zinc Coating, Add</i>	4.40	
			<i>For 13 Gauge Fabric, Deduct</i>	-7.92	
			<i>For 11 Gauge Fabric, Deduct</i>	-4.40	
			<i>For 6 Gauge Fabric, Add</i>	14.09	
			<i>For 1" Mesh Fabric, Add</i>	13.21	
			<i>For 1-1/4" Mesh Fabric, Add</i>	8.81	
			<i>For 1-3/4" Mesh Fabric, Add</i>	5.28	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-2.64	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-3.52	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	121.51	
32 31 13	13-0183		<b>Fabric, Vinyl Coated Chain Link</b> <small>(32 31 13 13-0170)</small>		
32 31 13	13-0184	LF	4' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	15.94	2.52
			<i>For 1-1/4" Mesh Fabric, Add</i>	1.82	
			<i>For 13 Gauge Fabric, Deduct</i>	-2.93	
			<i>For 11 Gauge Fabric, Deduct</i>	-1.63	
			<i>For 6 Gauge Fabric, Add</i>	5.20	
			<i>For 1" Mesh Fabric, Add</i>	4.88	
			<i>For 1-1/4" Mesh Fabric, Add</i>	3.25	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1.95	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-0.98	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.30	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	47.41	
			<i>For Aluminum Coated, Add</i>	2.60	
32 31 13	13-0185	LF	5' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	18.21	3.78
			<i>For 1-1/4" Mesh Fabric, Add</i>	2.28	
			<i>For 13 Gauge Fabric, Deduct</i>	-3.66	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.03	
			<i>For 6 Gauge Fabric, Add</i>	6.50	
			<i>For 1" Mesh Fabric, Add</i>	6.10	
			<i>For 1-1/4" Mesh Fabric, Add</i>	4.07	
			<i>For 1-3/4" Mesh Fabric, Add</i>	2.44	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.22	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-1.63	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	57.52	
			<i>For Aluminum Coated, Add</i>	3.25	
32 31 13	13-0186	LF	6' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	22.19	4.41
			<i>For 1-1/4" Mesh Fabric, Add</i>	3.19	
			<i>For 13 Gauge Fabric, Deduct</i>	-5.13	
			<i>For 11 Gauge Fabric, Deduct</i>	-2.85	
			<i>For 6 Gauge Fabric, Add</i>	9.12	
			<i>For 1" Mesh Fabric, Add</i>	8.55	
			<i>For 1-1/4" Mesh Fabric, Add</i>	5.70	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.42	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.71	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.28	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	67.69	
			<i>For Aluminum Coated, Add</i>	4.56	
32 31 13	13-0187	LF	7' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	24.89	5.03
			<i>For 1-1/4" Mesh Fabric, Add</i>	3.72	
			<i>For 13 Gauge Fabric, Deduct</i>	-5.97	
			<i>For 11 Gauge Fabric, Deduct</i>	-3.32	
			<i>For 6 Gauge Fabric, Add</i>	10.62	
			<i>For 1" Mesh Fabric, Add</i>	9.95	
			<i>For 1-1/4" Mesh Fabric, Add</i>	6.64	
			<i>For 1-3/4" Mesh Fabric, Add</i>	3.98	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-1.99	
			<i>For 2-3/8" Mesh Fabric, Deduct</i>	-2.65	
			<i>For 3/8" Non-Climbable Mesh, Add</i>	78.02	
			<i>For Aluminum Coated, Add</i>	5.31	



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0188 LF 8' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	27.87	6.30
For 1-1/4" Mesh Fabric, Add	4.28	
For 13 Gauge Fabric, Deduct	-6.88	
For 11 Gauge Fabric, Deduct	-3.82	
For 6 Gauge Fabric, Add	12.22	
For 1" Mesh Fabric, Add	11.46	
For 1-1/4" Mesh Fabric, Add	7.64	
For 1-3/4" Mesh Fabric, Add	4.58	
For 2-1/8" Mesh Fabric, Deduct	-2.29	
For 2-3/8" Mesh Fabric, Deduct	-3.06	
For 3/8" Non-Climbable Mesh, Add	88.48	
For Aluminum Coated, Add	6.11	
32 31 13 13-0189 LF 10' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	32.92	6.92
For 1-1/4" Mesh Fabric, Add	5.33	
For 13 Gauge Fabric, Deduct	-8.56	
For 11 Gauge Fabric, Deduct	-4.76	
For 6 Gauge Fabric, Add	15.22	
For 1" Mesh Fabric, Add	14.27	
For 1-1/4" Mesh Fabric, Add	9.51	
For 1-3/4" Mesh Fabric, Add	5.71	
For 2-1/8" Mesh Fabric, Deduct	-2.85	
For 2-3/8" Mesh Fabric, Deduct	-3.80	
For 3/8" Non-Climbable Mesh, Add	106.95	
For Aluminum Coated, Add	7.61	
32 31 13 13-0190 LF 12' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	35.91	7.56
For 1-1/4" Mesh Fabric, Add	5.82	
For 13 Gauge Fabric, Deduct	-9.36	
For 11 Gauge Fabric, Deduct	-5.20	
For 6 Gauge Fabric, Add	16.64	
For 1" Mesh Fabric, Add	15.60	
For 1-1/4" Mesh Fabric, Add	10.40	
For 1-3/4" Mesh Fabric, Add	6.24	
For 2-1/8" Mesh Fabric, Deduct	-3.12	
For 2-3/8" Mesh Fabric, Deduct	-4.16	
For 3/8" Non-Climbable Mesh, Add	115.98	
For Aluminum Coated, Add	8.32	
32 31 13 13-0191 LF 14' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	40.53	8.81
For 1-1/4" Mesh Fabric, Add	6.41	
For 13 Gauge Fabric, Deduct	-10.31	
For 11 Gauge Fabric, Deduct	-5.73	
For 6 Gauge Fabric, Add	18.32	
For 1" Mesh Fabric, Add	17.18	
For 1-1/4" Mesh Fabric, Add	11.45	
For 1-3/4" Mesh Fabric, Add	6.87	
For 2-1/8" Mesh Fabric, Deduct	-3.44	
For 2-3/8" Mesh Fabric, Deduct	-4.58	
For 3/8" Non-Climbable Mesh, Add	126.35	
For Aluminum Coated, Add	9.16	
32 31 13 13-0192 LF 16' Full Height Vinyl Coated Fabric Chain Link #9 Gauge Fused, 2" Mesh .....	45.24	10.08
For 1-1/4" Mesh Fabric, Add	7.03	
For 13 Gauge Fabric, Deduct	-11.29	
For 11 Gauge Fabric, Deduct	-6.27	
For 6 Gauge Fabric, Add	20.07	
For 1" Mesh Fabric, Add	18.82	
For 1-1/4" Mesh Fabric, Add	12.55	
For 1-3/4" Mesh Fabric, Add	7.53	
For 2-1/8" Mesh Fabric, Deduct	-3.76	
For 2-3/8" Mesh Fabric, Deduct	-5.02	
For 3/8" Non-Climbable Mesh, Add	136.71	
For Aluminum Coated, Add	10.04	
<b>32 31 13 13-0193 Fabric, Aluminized Steel Chain Link</b> <small>(32 31 13 13-0170)</small>		
32 31 13 13-0194 LF 3' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	11.57	2.52
For 6 Gauge Fabric, Add	2.70	
For 1" Mesh Fabric, Add	3.55	
32 31 13 13-0195 LF 3'-6" Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	12.73	2.83
For 6 Gauge Fabric, Add	3.14	
For 1" Mesh Fabric, Add	4.12	
32 31 13 13-0196 LF 4' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	13.93	3.14
For 6 Gauge Fabric, Add	3.59	
For 1" Mesh Fabric, Add	4.71	
32 31 13 13-0197 LF 5' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	15.69	3.78
For 6 Gauge Fabric, Add	4.49	
For 1" Mesh Fabric, Add	5.89	
32 31 13 13-0198 LF 6' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	17.50	4.41
For 6 Gauge Fabric, Add	5.37	
For 1" Mesh Fabric, Add	7.05	
32 31 13 13-0199 LF 7' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	19.47	5.03
For 6 Gauge Fabric, Add	6.28	
For 1" Mesh Fabric, Add	8.24	
32 31 13 13-0200 LF 8' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh .....	21.55	6.30
For 6 Gauge Fabric, Add	7.17	
For 1" Mesh Fabric, Add	9.41	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0201 LF 10' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	25.10 8.96 11.76	6.92
32 31 13 13-0202 LF 12' Full Height Fabric Chain Link #9 Gauge, Aluminized Steel, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	28.55 10.75 14.11	7.56
<b>32 31 13 13-0203 Fabric, All Aluminum Chain Link</b> <small>(32 31 13 13-0170)</small>		
32 31 13 13-0204 LF 3' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	17.02 7.06 9.27	2.52
32 31 13 13-0205 LF 3'-6" Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	19.11 8.24 10.82	2.83
32 31 13 13-0206 LF 4' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	21.21 9.42 12.36	3.14
32 31 13 13-0207 LF 5' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	24.79 11.77 15.45	3.78
32 31 13 13-0208 LF 6' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	28.45 14.13 18.54	4.41
32 31 13 13-0209 LF 7' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	32.22 16.48 21.63	5.03
32 31 13 13-0210 LF 8' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	36.13 18.83 24.72	6.30
32 31 13 13-0211 LF 10' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	43.33 23.54 30.90	6.92
32 31 13 13-0212 LF 12' Full Height Fabric Chain Link #9 Gauge, All Aluminum, 2" Mesh..... <i>For 6 Gauge Fabric, Add</i> <i>For 1" Mesh Fabric, Add</i>	50.42 28.25 37.08	7.56
<b>32 31 13 13-0213 Fence Inserts</b> <small>(32 31 13 13-0170)</small> Note: For use with new or existing chain link fence, per lf of fence.		
<b>32 31 13 13-0214 Vinyl Plastic Fence Inserts</b> <small>(32 31 13 13-0213)</small> Note: Assorted colors.		
32 31 13 13-0215 LF 3' High Fence, Vinyl Plastic Fence Insert.....	9.27	
32 31 13 13-0216 LF 3-1/2' High Fence, Vinyl Plastic Fence Insert.....	10.57	
32 31 13 13-0217 LF 4' High Fence, Vinyl Plastic Fence Insert.....	11.66	
32 31 13 13-0218 LF 5' High Fence, Vinyl Plastic Fence Insert.....	14.62	
32 31 13 13-0219 LF 6' High Fence, Vinyl Plastic Fence Insert.....	17.49	
32 31 13 13-0220 LF 7' High Fence, Vinyl Plastic Fence Insert.....	20.45	
32 31 13 13-0221 LF 8' High Fence, Vinyl Plastic Fence Insert.....	23.31	
32 31 13 13-0222 LF 10' High Fence, Vinyl Plastic Fence Insert.....	28.51	
<b>32 31 13 13-0223 Aluminum Fence Inserts</b> <small>(32 31 13 13-0213)</small> Note: Assorted colors.		
32 31 13 13-0224 LF 3' High Fence, Aluminum Fence Insert.....	32.03	
32 31 13 13-0225 LF 3-1/2' High Fence, Aluminum Fence Insert.....	35.12	
32 31 13 13-0226 LF 4' High Fence, Aluminum Fence Insert.....	39.84	
32 31 13 13-0227 LF 5' High Fence, Aluminum Fence Insert.....	49.84	
32 31 13 13-0228 LF 6' High Fence, Aluminum Fence Insert.....	59.81	
32 31 13 13-0229 LF 7' High Fence, Aluminum Fence Insert.....	64.92	
32 31 13 13-0230 LF 8' High Fence, Aluminum Fence Insert.....	79.73	
32 31 13 13-0231 LF 10' High Fence, Aluminum Fence Insert.....	99.35	
<b>32 31 13 13-0232 Redwood Fence Inserts</b> <small>(32 31 13 13-0213)</small>		
32 31 13 13-0233 LF 4' High Fence, Redwood Fence Insert.....	13.60	
32 31 13 13-0234 LF 5' High Fence, Redwood Fence Insert.....	17.21	
32 31 13 13-0235 LF 6' High Fence, Redwood Fence Insert.....	20.66	
32 31 13 13-0236 LF 7' High Fence, Redwood Fence Insert.....	24.04	
32 31 13 13-0237 LF 8' High Fence, Redwood Fence Insert.....	27.52	
<b>32 31 13 13-0238 Diagonal Flexible Polyethylene Inserts</b> <small>(32 31 13 13-0213)</small>		
32 31 13 13-0239 SF Diagonal Polyethylene Fence Weave.....	3.69	
<b>32 31 13 13-0240 Hedge Link Fence Inserts</b> <small>(32 31 13 13-0213)</small>		
32 31 13 13-0241 LF 3' High Fence, Hedge Link Fence Insert.....	20.05	
32 31 13 13-0242 LF 3-1/2' High Fence, Hedge Link Fence Insert.....	22.84	
32 31 13 13-0243 LF 4' High Fence, Hedge Link Fence Insert.....	26.70	
32 31 13 13-0244 LF 5' High Fence, Hedge Link Fence Insert.....	32.90	
32 31 13 13-0245 LF 6' High Fence, Hedge Link Fence Insert.....	37.57	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0246	LF	7' High Fence, Hedge Link Fence Insert.....	47.61	
32 31 13	13-0247	LF	8' High Fence, Hedge Link Fence Insert.....	54.05	
32 31 13	13-0248	LF	10' High Fence, Hedge Link Fence Insert.....	64.67	
32 31 13	13-0249	LF	12' High Fence, Hedge Link Fence Insert.....	74.19	
<b>32 31 13</b>	<b>13-0250</b>		<b>Fence Windscreen Fabric</b> (32 31 13 13-0170) Note: Includes plastic wire clips.		
32 31 13	13-0251	SF	Vinyl Coated Polyester Windscreen For Fence, 7 Oz Per SY .....	1.24	0.53
			For Sewn Boxed Vent (Each), Add	27.98	
			For Welded Boxed Vent (Each), Add	13.99	
			For 4' x 4' One Color Logo (Each), Add	582.88	
<b>32 31 13</b>	<b>13-0252</b>		<b>Non-Climbable Fabric, Galvanized Chain Link</b> (32 31 13 13-0170)		
32 31 13	13-0253	LF	3' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	32.93	2.52
			For 11 Gauge, Deduct	-4.95	
			For 10 Gauge, Deduct	-1.98	
			For 7 Gauge, Add	2.97	
			For 6 Gauge, Add	6.93	
			For 1/2" Mesh Fabric, Deduct	-1.24	
			For 5/8" Mesh Fabric, Deduct	-2.72	
			For 3/4" Mesh Fabric, Deduct	-3.96	
32 31 13	13-0254	LF	3'-6" Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh.....	37.67	2.83
			For 11 Gauge, Deduct	-5.77	
			For 10 Gauge, Deduct	-2.31	
			For 7 Gauge, Add	3.46	
			For 6 Gauge, Add	8.08	
			For 1/2" Mesh Fabric, Deduct	-1.44	
			For 5/8" Mesh Fabric, Deduct	-3.17	
			For 3/4" Mesh Fabric, Deduct	-4.62	
32 31 13	13-0255	LF	4' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	42.46	3.14
			For 11 Gauge, Deduct	-6.60	
			For 10 Gauge, Deduct	-2.64	
			For 7 Gauge, Add	3.96	
			For 6 Gauge, Add	9.25	
			For 1/2" Mesh Fabric, Deduct	-1.65	
			For 5/8" Mesh Fabric, Deduct	-3.63	
			For 3/4" Mesh Fabric, Deduct	-5.28	
32 31 13	13-0256	LF	5' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	51.33	3.78
			For 11 Gauge, Deduct	-8.25	
			For 10 Gauge, Deduct	-3.30	
			For 7 Gauge, Add	4.95	
			For 6 Gauge, Add	11.55	
			For 1/2" Mesh Fabric, Deduct	-2.06	
			For 5/8" Mesh Fabric, Deduct	-4.54	
			For 3/4" Mesh Fabric, Deduct	-6.60	
32 31 13	13-0257	LF	6' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	60.27	4.41
			For 11 Gauge, Deduct	-9.90	
			For 10 Gauge, Deduct	-3.96	
			For 7 Gauge, Add	5.94	
			For 6 Gauge, Add	13.85	
			For 1/2" Mesh Fabric, Deduct	-2.47	
			For 5/8" Mesh Fabric, Deduct	-5.44	
			For 3/4" Mesh Fabric, Deduct	-7.92	
32 31 13	13-0258	LF	7' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	69.35	5.03
			For 11 Gauge, Deduct	-11.55	
			For 10 Gauge, Deduct	-4.62	
			For 7 Gauge, Add	6.93	
			For 6 Gauge, Add	16.16	
			For 1/2" Mesh Fabric, Deduct	-2.89	
			For 5/8" Mesh Fabric, Deduct	-6.35	
			For 3/4" Mesh Fabric, Deduct	-9.24	
32 31 13	13-0259	LF	8' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	78.58	6.30
			For 11 Gauge, Deduct	-13.20	
			For 10 Gauge, Deduct	-5.28	
			For 7 Gauge, Add	7.92	
			For 6 Gauge, Add	18.48	
			For 1/2" Mesh Fabric, Deduct	-3.30	
			For 5/8" Mesh Fabric, Deduct	-7.26	
			For 3/4" Mesh Fabric, Deduct	-10.56	
32 31 13	13-0260	LF	9' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	86.67	6.61
			For 11 Gauge, Deduct	-14.69	
			For 10 Gauge, Deduct	-5.88	
			For 7 Gauge, Add	8.81	
			For 6 Gauge, Add	20.57	
			For 1/2" Mesh Fabric, Deduct	-3.67	
			For 5/8" Mesh Fabric, Deduct	-8.08	
			For 3/4" Mesh Fabric, Deduct	-11.75	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0261	LF	10' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	94.81	6.92
		<i>For 11 Gauge, Deduct</i>	-16.18	
		<i>For 10 Gauge, Deduct</i>	-6.47	
		<i>For 7 Gauge, Add</i>	9.71	
		<i>For 6 Gauge, Add</i>	22.65	
		<i>For 1/2" Mesh Fabric, Deduct</i>	-4.05	
		<i>For 5/8" Mesh Fabric, Deduct</i>	-8.90	
		<i>For 3/4" Mesh Fabric, Deduct</i>	-12.95	
32 31 13 13-0262	LF	12' Non-Climbable Fabric Galvanized Chain Link #9 Gauge, 3/8" Mesh .....	102.82	7.56
		<i>For 11 Gauge, Deduct</i>	-17.54	
		<i>For 10 Gauge, Deduct</i>	-7.02	
		<i>For 7 Gauge, Add</i>	10.53	
		<i>For 6 Gauge, Add</i>	24.56	
		<i>For 1/2" Mesh Fabric, Deduct</i>	-4.39	
		<i>For 5/8" Mesh Fabric, Deduct</i>	-9.65	
		<i>For 3/4" Mesh Fabric, Deduct</i>	-14.03	
32 31 13 13-0263		<b>Gates</b> <small>(32 31 13 13)</small> Note: Posts exclude drilling or augering in soil or rock. For barbed wire attached directly to posts and gates, select gates and posts sizes for full finished height of gate above grade (top rail to be at lower height, includes barb wire at top area where mesh would be). See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 13 13-0264		<b>Galvanized Steel Without Barbed Wire</b> <small>(32 31 13 13-0263)</small> Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter for > 6' To 12' wide, 6-5/8" diameter for >12' To 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.		
32 31 13 13-0265		<b>4' Fence Height</b> <small>(32 31 13 13-0264)</small>		
32 31 13 13-0266	EA	3' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	359.95	23.42
		<i>For Gate With Single Barb Wire Arm, Add</i>	31.54	
		<i>For Gate With Double Barb Wire Arm, Add</i>	45.88	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-53.77	
		<i>For Aluminized Steel Gate And Post, Add</i>	137.64	
		<i>For Powder Coated Gate And Post, Add</i>	74.56	
		<i>For 1" Mesh Fabric, Add</i>	124.74	
		<i>For 1-1/4" Mesh Fabric, Add</i>	80.29	
		<i>For 1-3/4" Mesh Fabric, Add</i>	49.90	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-24.95	
32 31 13 13-0267	EA	4' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	455.53	24.39
		<i>For Gate With Single Barb Wire Arm, Add</i>	42.06	
		<i>For Gate With Double Barb Wire Arm, Add</i>	61.17	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-71.69	
		<i>For Aluminized Steel Gate And Post, Add</i>	183.52	
		<i>For Powder Coated Gate And Post, Add</i>	99.41	
		<i>For 1" Mesh Fabric, Add</i>	166.32	
		<i>For 1-1/4" Mesh Fabric, Add</i>	107.06	
		<i>For 1-3/4" Mesh Fabric, Add</i>	66.53	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-33.26	
32 31 13 13-0268	EA	5' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	539.68	25.96
		<i>For Gate With Single Barb Wire Arm, Add</i>	50.78	
		<i>For Gate With Double Barb Wire Arm, Add</i>	73.86	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-86.55	
		<i>For Aluminized Steel Gate And Post, Add</i>	221.57	
		<i>For Powder Coated Gate And Post, Add</i>	120.02	
		<i>For 1" Mesh Fabric, Add</i>	200.80	
		<i>For 1-1/4" Mesh Fabric, Add</i>	129.25	
		<i>For 1-3/4" Mesh Fabric, Add</i>	80.32	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-40.16	
32 31 13 13-0269	EA	6' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	634.57	31.23
		<i>For Gate With Single Barb Wire Arm, Add</i>	59.50	
		<i>For Gate With Double Barb Wire Arm, Add</i>	86.54	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-101.41	
		<i>For Aluminized Steel Gate And Post, Add</i>	259.62	
		<i>For Powder Coated Gate And Post, Add</i>	140.63	
		<i>For 1" Mesh Fabric, Add</i>	235.28	
		<i>For 1-1/4" Mesh Fabric, Add</i>	151.44	
		<i>For 1-3/4" Mesh Fabric, Add</i>	94.11	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-47.06	
32 31 13 13-0270	EA	7' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	729.45	36.40
		<i>For Gate With Single Barb Wire Arm, Add</i>	68.22	
		<i>For Gate With Double Barb Wire Arm, Add</i>	99.22	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-116.28	
		<i>For Aluminized Steel Gate And Post, Add</i>	297.67	
		<i>For Powder Coated Gate And Post, Add</i>	161.24	
		<i>For 1" Mesh Fabric, Add</i>	269.76	
		<i>For 1-1/4" Mesh Fabric, Add</i>	173.64	
		<i>For 1-3/4" Mesh Fabric, Add</i>	107.90	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-53.95	





		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0271 EA 8' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	827.58	41.57
For Gate With Single Barb Wire Arm, Add	77.29	
For Gate With Double Barb Wire Arm, Add	112.43	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-131.75	
For Aluminized Steel Gate And Post, Add	337.28	
For Powder Coated Gate And Post, Add	182.69	
For 1" Mesh Fabric, Add	305.66	
For 1-1/4" Mesh Fabric, Add	196.75	
For 1-3/4" Mesh Fabric, Add	122.26	
For 2-1/8" Mesh Fabric, Deduct	-61.13	
32 31 13 13-0272 EA 9' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	922.45	46.84
For Gate With Single Barb Wire Arm, Add	86.01	
For Gate With Double Barb Wire Arm, Add	125.11	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-146.61	
For Aluminized Steel Gate And Post, Add	375.33	
For Powder Coated Gate And Post, Add	203.30	
For 1" Mesh Fabric, Add	340.14	
For 1-1/4" Mesh Fabric, Add	218.94	
For 1-3/4" Mesh Fabric, Add	136.06	
For 2-1/8" Mesh Fabric, Deduct	-68.03	
32 31 13 13-0273 EA 10' Wide x 4' High Single Gate Galvanized Steel Without Barbed Wire .....	1,018.74	52.01
For Gate With Single Barb Wire Arm, Add	94.89	
For Gate With Double Barb Wire Arm, Add	138.02	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.74	
For Aluminized Steel Gate And Post, Add	414.05	
For Powder Coated Gate And Post, Add	224.28	
For 1" Mesh Fabric, Add	375.23	
For 1-1/4" Mesh Fabric, Add	241.53	
For 1-3/4" Mesh Fabric, Add	150.09	
For 2-1/8" Mesh Fabric, Deduct	-75.05	
32 31 13 13-0274 EA 10' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,303.16	52.01
For Gate With Single Barb Wire Arm, Add	126.17	
For Gate With Double Barb Wire Arm, Add	183.52	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-215.07	
For Aluminized Steel Gate And Post, Add	550.57	
For Powder Coated Gate And Post, Add	298.23	
For 1" Mesh Fabric, Add	498.95	
For 1-1/4" Mesh Fabric, Add	321.17	
For 1-3/4" Mesh Fabric, Add	199.58	
For 2-1/8" Mesh Fabric, Deduct	-99.79	
32 31 13 13-0275 EA 12' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,543.72	55.72
For Gate With Single Barb Wire Arm, Add	151.41	
For Gate With Double Barb Wire Arm, Add	220.23	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-258.08	
For Aluminized Steel Gate And Post, Add	660.69	
For Powder Coated Gate And Post, Add	357.87	
For 1" Mesh Fabric, Add	598.75	
For 1-1/4" Mesh Fabric, Add	385.40	
For 1-3/4" Mesh Fabric, Add	239.50	
For 2-1/8" Mesh Fabric, Deduct	-119.75	
32 31 13 13-0276 EA 14' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	1,785.99	60.02
For Gate With Single Barb Wire Arm, Add	176.64	
For Gate With Double Barb Wire Arm, Add	256.93	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-301.09	
For Aluminized Steel Gate And Post, Add	770.80	
For Powder Coated Gate And Post, Add	417.52	
For 1" Mesh Fabric, Add	698.54	
For 1-1/4" Mesh Fabric, Add	449.63	
For 1-3/4" Mesh Fabric, Add	279.41	
For 2-1/8" Mesh Fabric, Deduct	-139.71	
32 31 13 13-0277 EA 16' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	2,030.42	65.00
For Gate With Single Barb Wire Arm, Add	201.88	
For Gate With Double Barb Wire Arm, Add	293.64	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-344.11	
For Aluminized Steel Gate And Post, Add	880.92	
For Powder Coated Gate And Post, Add	477.16	
For 1" Mesh Fabric, Add	798.33	
For 1-1/4" Mesh Fabric, Add	513.87	
For 1-3/4" Mesh Fabric, Add	319.33	
For 2-1/8" Mesh Fabric, Deduct	-159.67	
32 31 13 13-0278 EA 18' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	2,313.23	82.73
For Gate With Single Barb Wire Arm, Add	227.11	
For Gate With Double Barb Wire Arm, Add	330.34	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-387.12	
For Aluminized Steel Gate And Post, Add	991.03	
For Powder Coated Gate And Post, Add	536.81	
For 1" Mesh Fabric, Add	898.12	
For 1-1/4" Mesh Fabric, Add	578.10	
For 1-3/4" Mesh Fabric, Add	359.25	
For 2-1/8" Mesh Fabric, Deduct	-179.62	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0279 EA 20' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	2,560.40	88.67
For Gate With Single Barb Wire Arm, Add	252.35	
For Gate With Double Barb Wire Arm, Add	367.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-430.13	
For Aluminized Steel Gate And Post, Add	1,101.14	
For Powder Coated Gate And Post, Add	596.45	
For 1" Mesh Fabric, Add	997.91	
For 1-1/4" Mesh Fabric, Add	642.33	
For 1-3/4" Mesh Fabric, Add	399.16	
For 2-1/8" Mesh Fabric, Deduct	-199.58	
32 31 13 13-0280 EA 22' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	2,804.69	95.55
For Gate With Single Barb Wire Arm, Add	276.96	
For Gate With Double Barb Wire Arm, Add	402.86	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-472.10	
For Aluminized Steel Gate And Post, Add	1,208.57	
For Powder Coated Gate And Post, Add	654.64	
For 1" Mesh Fabric, Add	1,095.27	
For 1-1/4" Mesh Fabric, Add	705.00	
For 1-3/4" Mesh Fabric, Add	438.11	
For 2-1/8" Mesh Fabric, Deduct	-219.05	
32 31 13 13-0281 EA 24' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	3,052.40	103.47
For Gate With Single Barb Wire Arm, Add	301.58	
For Gate With Double Barb Wire Arm, Add	438.67	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-514.06	
For Aluminized Steel Gate And Post, Add	1,316.00	
For Powder Coated Gate And Post, Add	712.83	
For 1" Mesh Fabric, Add	1,192.63	
For 1-1/4" Mesh Fabric, Add	767.67	
For 1-3/4" Mesh Fabric, Add	477.05	
For 2-1/8" Mesh Fabric, Deduct	-238.53	
32 31 13 13-0282 EA 26' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	3,304.46	112.91
For Gate With Single Barb Wire Arm, Add	326.20	
For Gate With Double Barb Wire Arm, Add	474.48	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-556.03	
For Aluminized Steel Gate And Post, Add	1,423.43	
For Powder Coated Gate And Post, Add	771.02	
For 1" Mesh Fabric, Add	1,289.98	
For 1-1/4" Mesh Fabric, Add	830.33	
For 1-3/4" Mesh Fabric, Add	515.99	
For 2-1/8" Mesh Fabric, Deduct	-258.00	
32 31 13 13-0283 EA 28' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	3,478.24	124.21
For Gate With Single Barb Wire Arm, Add	341.59	
For Gate With Double Barb Wire Arm, Add	496.86	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-582.26	
For Aluminized Steel Gate And Post, Add	1,490.57	
For Powder Coated Gate And Post, Add	807.39	
For 1" Mesh Fabric, Add	1,350.83	
For 1-1/4" Mesh Fabric, Add	869.50	
For 1-3/4" Mesh Fabric, Add	540.33	
For 2-1/8" Mesh Fabric, Deduct	-270.17	
32 31 13 13-0284 EA 30' Wide x 4' High Double Gate Galvanized Steel Without Barbed Wire .....	3,855.37	137.96
For Gate With Single Barb Wire Arm, Add	378.52	
For Gate With Double Barb Wire Arm, Add	550.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-645.20	
For Aluminized Steel Gate And Post, Add	1,651.71	
For Powder Coated Gate And Post, Add	894.68	
For 1" Mesh Fabric, Add	1,496.87	
For 1-1/4" Mesh Fabric, Add	963.50	
For 1-3/4" Mesh Fabric, Add	598.75	
For 2-1/8" Mesh Fabric, Deduct	-299.37	
<b>32 31 13 13-0285 5' Fence Height (32 31 13 13-0264)</b>		
32 31 13 13-0286 EA 3' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire .....	432.44	25.96
For Gate With Single Barb Wire Arm, Add	38.98	
For Gate With Double Barb Wire Arm, Add	56.70	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.44	
For Aluminized Steel Gate And Post, Add	170.10	
For Powder Coated Gate And Post, Add	92.14	
For 1" Mesh Fabric, Add	154.15	
For 1-1/4" Mesh Fabric, Add	99.22	
For 1-3/4" Mesh Fabric, Add	61.66	
For 2-1/8" Mesh Fabric, Deduct	-30.83	
32 31 13 13-0287 EA 4' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire .....	549.00	25.96
For Gate With Single Barb Wire Arm, Add	51.80	
For Gate With Double Barb Wire Arm, Add	75.35	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.30	
For Aluminized Steel Gate And Post, Add	226.05	
For Powder Coated Gate And Post, Add	122.44	
For 1" Mesh Fabric, Add	204.85	
For 1-1/4" Mesh Fabric, Add	131.86	
For 1-3/4" Mesh Fabric, Add	81.94	
For 2-1/8" Mesh Fabric, Deduct	-40.97	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0288 EA 5' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire .....	642.48	27.61
For Gate With Single Barb Wire Arm, Add	61.55	
For Gate With Double Barb Wire Arm, Add	89.52	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-104.91	
For Aluminized Steel Gate And Post, Add	268.57	
For Powder Coated Gate And Post, Add	145.48	
For 1" Mesh Fabric, Add	243.39	
For 1-1/4" Mesh Fabric, Add	156.67	
For 1-3/4" Mesh Fabric, Add	97.36	
For 2-1/8" Mesh Fabric, Deduct	-48.68	
32 31 13 13-0289 EA 6' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire .....	752.33	33.18
For Gate With Single Barb Wire Arm, Add	71.81	
For Gate With Double Barb Wire Arm, Add	104.44	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-122.40	
For Aluminized Steel Gate And Post, Add	313.33	
For Powder Coated Gate And Post, Add	169.72	
For 1" Mesh Fabric, Add	283.96	
For 1-1/4" Mesh Fabric, Add	182.78	
For 1-3/4" Mesh Fabric, Add	113.58	
For 2-1/8" Mesh Fabric, Deduct	-56.79	
32 31 13 13-0290 EA 7' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire .....	852.84	38.65
For Gate With Single Barb Wire Arm, Add	81.04	
For Gate With Double Barb Wire Arm, Add	117.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-138.13	
For Aluminized Steel Gate And Post, Add	353.62	
For Powder Coated Gate And Post, Add	191.54	
For 1" Mesh Fabric, Add	320.47	
For 1-1/4" Mesh Fabric, Add	206.28	
For 1-3/4" Mesh Fabric, Add	128.19	
For 2-1/8" Mesh Fabric, Deduct	-64.09	
32 31 13 13-0291 EA 8' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire .....	963.66	44.50
For Gate With Single Barb Wire Arm, Add	91.30	
For Gate With Double Barb Wire Arm, Add	132.79	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-155.62	
For Aluminized Steel Gate And Post, Add	398.38	
For Powder Coated Gate And Post, Add	215.79	
For 1" Mesh Fabric, Add	361.03	
For 1-1/4" Mesh Fabric, Add	232.39	
For 1-3/4" Mesh Fabric, Add	144.41	
For 2-1/8" Mesh Fabric, Deduct	-72.21	
32 31 13 13-0292 EA 9' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire .....	1,068.83	50.06
For Gate With Single Barb Wire Arm, Add	101.04	
For Gate With Double Barb Wire Arm, Add	146.97	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-172.23	
For Aluminized Steel Gate And Post, Add	440.90	
For Powder Coated Gate And Post, Add	238.82	
For 1" Mesh Fabric, Add	399.57	
For 1-1/4" Mesh Fabric, Add	257.19	
For 1-3/4" Mesh Fabric, Add	159.83	
For 2-1/8" Mesh Fabric, Deduct	-79.91	
32 31 13 13-0293 EA 10' Wide x 5' High Single Gate Galvanized Steel Without Barbed Wire .....	1,174.01	55.52
For Gate With Single Barb Wire Arm, Add	110.79	
For Gate With Double Barb Wire Arm, Add	161.14	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-188.84	
For Aluminized Steel Gate And Post, Add	483.43	
For Powder Coated Gate And Post, Add	261.86	
For 1" Mesh Fabric, Add	438.11	
For 1-1/4" Mesh Fabric, Add	282.00	
For 1-3/4" Mesh Fabric, Add	175.24	
For 2-1/8" Mesh Fabric, Deduct	-87.62	
32 31 13 13-0294 EA 10' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	1,588.48	55.72
For Gate With Single Barb Wire Arm, Add	156.33	
For Gate With Double Barb Wire Arm, Add	227.39	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-266.47	
For Aluminized Steel Gate And Post, Add	682.17	
For Powder Coated Gate And Post, Add	369.51	
For 1" Mesh Fabric, Add	618.22	
For 1-1/4" Mesh Fabric, Add	397.93	
For 1-3/4" Mesh Fabric, Add	247.29	
For 2-1/8" Mesh Fabric, Deduct	-123.64	
32 31 13 13-0295 EA 12' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	1,886.71	60.02
For Gate With Single Barb Wire Arm, Add	187.72	
For Gate With Double Barb Wire Arm, Add	273.05	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-319.98	
For Aluminized Steel Gate And Post, Add	819.14	
For Powder Coated Gate And Post, Add	443.70	
For 1" Mesh Fabric, Add	742.35	
For 1-1/4" Mesh Fabric, Add	477.83	
For 1-3/4" Mesh Fabric, Add	296.94	
For 2-1/8" Mesh Fabric, Deduct	-148.47	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0296 EA 14' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	2,187.09	65.00
For Gate With Single Barb Wire Arm, Add	219.11	
For Gate With Double Barb Wire Arm, Add	318.71	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-373.48	
For Aluminized Steel Gate And Post, Add	956.12	
For Powder Coated Gate And Post, Add	517.90	
For 1" Mesh Fabric, Add	866.48	
For 1-1/4" Mesh Fabric, Add	557.73	
For 1-3/4" Mesh Fabric, Add	346.59	
For 2-1/8" Mesh Fabric, Deduct	-173.30	
32 31 13 13-0297 EA 16' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	2,525.85	82.73
For Gate With Single Barb Wire Arm, Add	250.50	
For Gate With Double Barb Wire Arm, Add	364.36	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-426.99	
For Aluminized Steel Gate And Post, Add	1,093.08	
For Powder Coated Gate And Post, Add	592.09	
For 1" Mesh Fabric, Add	990.61	
For 1-1/4" Mesh Fabric, Add	637.63	
For 1-3/4" Mesh Fabric, Add	396.24	
For 2-1/8" Mesh Fabric, Deduct	-198.12	
32 31 13 13-0298 EA 18' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	2,823.37	88.67
For Gate With Single Barb Wire Arm, Add	281.27	
For Gate With Double Barb Wire Arm, Add	409.12	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-479.44	
For Aluminized Steel Gate And Post, Add	1,227.37	
For Powder Coated Gate And Post, Add	664.83	
For 1" Mesh Fabric, Add	1,112.30	
For 1-1/4" Mesh Fabric, Add	715.97	
For 1-3/4" Mesh Fabric, Add	444.92	
For 2-1/8" Mesh Fabric, Deduct	-222.46	
32 31 13 13-0299 EA 20' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	3,134.81	95.55
For Gate With Single Barb Wire Arm, Add	313.28	
For Gate With Double Barb Wire Arm, Add	455.68	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-534.00	
For Aluminized Steel Gate And Post, Add	1,367.03	
For Powder Coated Gate And Post, Add	740.47	
For 1" Mesh Fabric, Add	1,238.87	
For 1-1/4" Mesh Fabric, Add	797.43	
For 1-3/4" Mesh Fabric, Add	495.55	
For 2-1/8" Mesh Fabric, Deduct	-247.77	
32 31 13 13-0300 EA 22' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	3,444.06	103.47
For Gate With Single Barb Wire Arm, Add	344.67	
For Gate With Double Barb Wire Arm, Add	501.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-587.50	
For Aluminized Steel Gate And Post, Add	1,504.00	
For Powder Coated Gate And Post, Add	814.67	
For 1" Mesh Fabric, Add	1,363.00	
For 1-1/4" Mesh Fabric, Add	877.33	
For 1-3/4" Mesh Fabric, Add	545.20	
For 2-1/8" Mesh Fabric, Deduct	-272.60	
32 31 13 13-0301 EA 24' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	3,752.08	112.91
For Gate With Single Barb Wire Arm, Add	375.44	
For Gate With Double Barb Wire Arm, Add	546.10	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-639.96	
For Aluminized Steel Gate And Post, Add	1,638.29	
For Powder Coated Gate And Post, Add	887.41	
For 1" Mesh Fabric, Add	1,484.70	
For 1-1/4" Mesh Fabric, Add	955.67	
For 1-3/4" Mesh Fabric, Add	593.88	
For 2-1/8" Mesh Fabric, Deduct	-296.94	
32 31 13 13-0302 EA 26' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	4,076.93	124.21
For Gate With Single Barb Wire Arm, Add	407.45	
For Gate With Double Barb Wire Arm, Add	592.65	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-694.51	
For Aluminized Steel Gate And Post, Add	1,777.94	
For Powder Coated Gate And Post, Add	963.05	
For 1" Mesh Fabric, Add	1,611.26	
For 1-1/4" Mesh Fabric, Add	1,037.13	
For 1-3/4" Mesh Fabric, Add	644.50	
For 2-1/8" Mesh Fabric, Deduct	-322.25	
32 31 13 13-0303 EA 28' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	4,400.18	137.96
For Gate With Single Barb Wire Arm, Add	438.45	
For Gate With Double Barb Wire Arm, Add	637.74	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-747.35	
For Aluminized Steel Gate And Post, Add	1,913.22	
For Powder Coated Gate And Post, Add	1,036.33	
For 1" Mesh Fabric, Add	1,733.86	
For 1-1/4" Mesh Fabric, Add	1,116.05	
For 1-3/4" Mesh Fabric, Add	693.54	
For 2-1/8" Mesh Fabric, Deduct	-346.77	



	<b>Exterior Improvements</b>	<b>32</b>
	Site Improvements	32 30
	Fences and Gates	32 31

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0304 EA 30' Wide x 5' High Double Gate Galvanized Steel Without Barbed Wire .....	4,729.67	155.21
For Gate With Single Barb Wire Arm, Add	468.99	
For Gate With Double Barb Wire Arm, Add	682.17	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-799.42	
For Aluminized Steel Gate And Post, Add	2,046.51	
For Powder Coated Gate And Post, Add	1,108.53	
For 1" Mesh Fabric, Add	1,854.65	
For 1-1/4" Mesh Fabric, Add	1,193.80	
For 1-3/4" Mesh Fabric, Add	741.86	
For 2-1/8" Mesh Fabric, Deduct	-370.93	
<b>32 31 13 13-0305 6' Fence Height (32 31 13 13-0264)</b>		
32 31 13 13-0306 EA 3' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	463.66	27.81
For Gate With Single Barb Wire Arm, Add	41.80	
For Gate With Double Barb Wire Arm, Add	60.80	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.25	
For Aluminized Steel Gate And Post, Add	182.40	
For Powder Coated Gate And Post, Add	98.80	
For 1" Mesh Fabric, Add	165.30	
For 1-1/4" Mesh Fabric, Add	106.40	
For 1-3/4" Mesh Fabric, Add	66.12	
For 2-1/8" Mesh Fabric, Deduct	-33.06	
32 31 13 13-0307 EA 4' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	589.55	27.81
For Gate With Single Barb Wire Arm, Add	55.65	
For Gate With Double Barb Wire Arm, Add	80.94	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-94.86	
For Aluminized Steel Gate And Post, Add	242.83	
For Powder Coated Gate And Post, Add	131.53	
For 1" Mesh Fabric, Add	220.07	
For 1-1/4" Mesh Fabric, Add	141.65	
For 1-3/4" Mesh Fabric, Add	88.03	
For 2-1/8" Mesh Fabric, Deduct	-44.01	
32 31 13 13-0308 EA 5' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	691.00	29.57
For Gate With Single Barb Wire Arm, Add	66.24	
For Gate With Double Barb Wire Arm, Add	96.35	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-112.91	
For Aluminized Steel Gate And Post, Add	289.05	
For Powder Coated Gate And Post, Add	156.57	
For 1" Mesh Fabric, Add	261.95	
For 1-1/4" Mesh Fabric, Add	168.61	
For 1-3/4" Mesh Fabric, Add	104.78	
For 2-1/8" Mesh Fabric, Deduct	-52.39	
32 31 13 13-0309 EA 6' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	802.08	35.72
For Gate With Single Barb Wire Arm, Add	76.42	
For Gate With Double Barb Wire Arm, Add	111.16	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-130.26	
For Aluminized Steel Gate And Post, Add	333.48	
For Powder Coated Gate And Post, Add	180.63	
For 1" Mesh Fabric, Add	302.21	
For 1-1/4" Mesh Fabric, Add	194.53	
For 1-3/4" Mesh Fabric, Add	120.88	
For 2-1/8" Mesh Fabric, Deduct	-60.44	
32 31 13 13-0310 EA 7' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	918.54	41.96
For Gate With Single Barb Wire Arm, Add	87.19	
For Gate With Double Barb Wire Arm, Add	126.83	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-148.62	
For Aluminized Steel Gate And Post, Add	380.48	
For Powder Coated Gate And Post, Add	206.09	
For 1" Mesh Fabric, Add	344.81	
For 1-1/4" Mesh Fabric, Add	221.94	
For 1-3/4" Mesh Fabric, Add	137.92	
For 2-1/8" Mesh Fabric, Deduct	-68.96	
32 31 13 13-0311 EA 8' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	1,029.35	47.82
For Gate With Single Barb Wire Arm, Add	97.45	
For Gate With Double Barb Wire Arm, Add	141.75	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-166.11	
For Aluminized Steel Gate And Post, Add	425.24	
For Powder Coated Gate And Post, Add	230.34	
For 1" Mesh Fabric, Add	385.37	
For 1-1/4" Mesh Fabric, Add	248.05	
For 1-3/4" Mesh Fabric, Add	154.15	
For 2-1/8" Mesh Fabric, Deduct	-77.07	
32 31 13 13-0312 EA 9' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	1,141.17	53.96
For Gate With Single Barb Wire Arm, Add	107.71	
For Gate With Double Barb Wire Arm, Add	156.67	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-183.59	
For Aluminized Steel Gate And Post, Add	470.00	
For Powder Coated Gate And Post, Add	254.58	
For 1" Mesh Fabric, Add	425.94	
For 1-1/4" Mesh Fabric, Add	274.17	
For 1-3/4" Mesh Fabric, Add	170.38	
For 2-1/8" Mesh Fabric, Deduct	-85.19	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0313 EA 10' Wide x 6' High Single Gate Galvanized Steel Without Barbed Wire .....	1,210.99	60.11
For Gate With Single Barb Wire Arm, Add	113.35	
For Gate With Double Barb Wire Arm, Add	164.87	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-193.21	
For Aluminized Steel Gate And Post, Add	494.62	
For Powder Coated Gate And Post, Add	267.92	
For 1" Mesh Fabric, Add	448.25	
For 1-1/4" Mesh Fabric, Add	288.53	
For 1-3/4" Mesh Fabric, Add	179.30	
For 2-1/8" Mesh Fabric, Deduct	-89.65	
32 31 13 13-0314 EA 10' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	1,696.47	60.02
For Gate With Single Barb Wire Arm, Add	166.79	
For Gate With Double Barb Wire Arm, Add	242.61	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-284.31	
For Aluminized Steel Gate And Post, Add	727.83	
For Powder Coated Gate And Post, Add	394.24	
For 1" Mesh Fabric, Add	659.59	
For 1-1/4" Mesh Fabric, Add	424.57	
For 1-3/4" Mesh Fabric, Add	263.84	
For 2-1/8" Mesh Fabric, Deduct	-131.92	
32 31 13 13-0315 EA 12' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	2,013.63	65.00
For Gate With Single Barb Wire Arm, Add	200.03	
For Gate With Double Barb Wire Arm, Add	290.95	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-340.96	
For Aluminized Steel Gate And Post, Add	872.86	
For Powder Coated Gate And Post, Add	472.80	
For 1" Mesh Fabric, Add	791.03	
For 1-1/4" Mesh Fabric, Add	509.17	
For 1-3/4" Mesh Fabric, Add	316.41	
For 2-1/8" Mesh Fabric, Deduct	-158.21	
32 31 13 13-0316 EA 14' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	2,392.54	88.67
For Gate With Single Barb Wire Arm, Add	233.88	
For Gate With Double Barb Wire Arm, Add	340.19	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-398.66	
For Aluminized Steel Gate And Post, Add	1,020.57	
For Powder Coated Gate And Post, Add	552.81	
For 1" Mesh Fabric, Add	924.89	
For 1-1/4" Mesh Fabric, Add	595.33	
For 1-3/4" Mesh Fabric, Add	369.96	
For 2-1/8" Mesh Fabric, Deduct	-184.98	
32 31 13 13-0317 EA 16' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	2,715.16	95.55
For Gate With Single Barb Wire Arm, Add	267.12	
For Gate With Double Barb Wire Arm, Add	388.53	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-455.31	
For Aluminized Steel Gate And Post, Add	1,165.60	
For Powder Coated Gate And Post, Add	631.37	
For 1" Mesh Fabric, Add	1,056.32	
For 1-1/4" Mesh Fabric, Add	679.93	
For 1-3/4" Mesh Fabric, Add	422.53	
For 2-1/8" Mesh Fabric, Deduct	-211.26	
32 31 13 13-0318 EA 18' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	3,046.80	103.47
For Gate With Single Barb Wire Arm, Add	300.97	
For Gate With Double Barb Wire Arm, Add	437.77	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-513.01	
For Aluminized Steel Gate And Post, Add	1,313.31	
For Powder Coated Gate And Post, Add	711.38	
For 1" Mesh Fabric, Add	1,190.19	
For 1-1/4" Mesh Fabric, Add	766.10	
For 1-3/4" Mesh Fabric, Add	476.08	
For 2-1/8" Mesh Fabric, Deduct	-238.04	
32 31 13 13-0319 EA 20' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	3,382.79	112.91
For Gate With Single Barb Wire Arm, Add	334.82	
For Gate With Double Barb Wire Arm, Add	487.01	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-570.71	
For Aluminized Steel Gate And Post, Add	1,461.03	
For Powder Coated Gate And Post, Add	791.39	
For 1" Mesh Fabric, Add	1,324.06	
For 1-1/4" Mesh Fabric, Add	852.27	
For 1-3/4" Mesh Fabric, Add	529.62	
For 2-1/8" Mesh Fabric, Deduct	-264.81	
32 31 13 13-0320 EA 22' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire .....	3,718.83	124.21
For Gate With Single Barb Wire Arm, Add	368.05	
For Gate With Double Barb Wire Arm, Add	535.35	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-627.37	
For Aluminized Steel Gate And Post, Add	1,606.06	
For Powder Coated Gate And Post, Add	869.95	
For 1" Mesh Fabric, Add	1,455.49	
For 1-1/4" Mesh Fabric, Add	936.87	
For 1-3/4" Mesh Fabric, Add	582.20	
For 2-1/8" Mesh Fabric, Deduct	-291.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0321	EA	24' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,065.19	137.96
			<i>For Gate With Single Barb Wire Arm, Add</i>	401.60	
			<i>For Gate With Double Barb Wire Arm, Add</i>	584.14	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-684.54	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,752.43	
			<i>For Powder Coated Gate And Post, Add</i>	949.23	
			<i>For 1" Mesh Fabric, Add</i>	1,588.14	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,022.25	
			<i>For 1-3/4" Mesh Fabric, Add</i>	635.25	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-317.63	
32 31 13	13-0322	EA	26' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,418.58	155.21
			<i>For Gate With Single Barb Wire Arm, Add</i>	434.77	
			<i>For Gate With Double Barb Wire Arm, Add</i>	632.40	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-741.09	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,897.19	
			<i>For Powder Coated Gate And Post, Add</i>	1,027.64	
			<i>For 1" Mesh Fabric, Add</i>	1,719.33	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,106.69	
			<i>For 1-3/4" Mesh Fabric, Add</i>	687.73	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-343.87	
32 31 13	13-0323	EA	28' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	4,790.66	177.35
			<i>For Gate With Single Barb Wire Arm, Add</i>	468.38	
			<i>For Gate With Double Barb Wire Arm, Add</i>	681.28	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-798.37	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,043.83	
			<i>For Powder Coated Gate And Post, Add</i>	1,107.07	
			<i>For 1" Mesh Fabric, Add</i>	1,852.22	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,192.23	
			<i>For 1-3/4" Mesh Fabric, Add</i>	740.89	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-370.44	
32 31 13	13-0324	EA	30' Wide x 6' High Double Gate Galvanized Steel Without Barbed Wire	5,185.51	206.94
			<i>For Gate With Single Barb Wire Arm, Add</i>	502.04	
			<i>For Gate With Double Barb Wire Arm, Add</i>	730.25	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-855.76	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,190.74	
			<i>For Powder Coated Gate And Post, Add</i>	1,186.65	
			<i>For 1" Mesh Fabric, Add</i>	1,985.36	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,277.93	
			<i>For 1-3/4" Mesh Fabric, Add</i>	794.14	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-397.07	
32 31 13	13-0325		<b>7' Fence Height</b> <sup>(32 31 13 13-0264)</sup>		
32 31 13	13-0326	EA	3' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	486.41	29.96
			<i>For Gate With Single Barb Wire Arm, Add</i>	43.60	
			<i>For Gate With Double Barb Wire Arm, Add</i>	63.41	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-74.31	
			<i>For Aluminized Steel Gate And Post, Add</i>	190.24	
			<i>For Powder Coated Gate And Post, Add</i>	103.05	
			<i>For 1" Mesh Fabric, Add</i>	172.40	
			<i>For 1-1/4" Mesh Fabric, Add</i>	110.97	
			<i>For 1-3/4" Mesh Fabric, Add</i>	68.96	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-34.48	
32 31 13	13-0327	EA	4' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	616.97	29.96
			<i>For Gate With Single Barb Wire Arm, Add</i>	57.96	
			<i>For Gate With Double Barb Wire Arm, Add</i>	84.30	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-98.79	
			<i>For Aluminized Steel Gate And Post, Add</i>	252.91	
			<i>For Powder Coated Gate And Post, Add</i>	136.99	
			<i>For 1" Mesh Fabric, Add</i>	229.20	
			<i>For 1-1/4" Mesh Fabric, Add</i>	147.53	
			<i>For 1-3/4" Mesh Fabric, Add</i>	91.68	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-45.84	
32 31 13	13-0328	EA	5' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	727.30	31.53
			<i>For Gate With Single Barb Wire Arm, Add</i>	69.59	
			<i>For Gate With Double Barb Wire Arm, Add</i>	101.22	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-118.62	
			<i>For Aluminized Steel Gate And Post, Add</i>	303.67	
			<i>For Powder Coated Gate And Post, Add</i>	164.49	
			<i>For 1" Mesh Fabric, Add</i>	275.20	
			<i>For 1-1/4" Mesh Fabric, Add</i>	177.14	
			<i>For 1-3/4" Mesh Fabric, Add</i>	110.08	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-55.04	
32 31 13	13-0329	EA	6' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire	891.40	38.35
			<i>For Gate With Single Barb Wire Arm, Add</i>	85.39	
			<i>For Gate With Double Barb Wire Arm, Add</i>	124.20	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-145.55	
			<i>For Aluminized Steel Gate And Post, Add</i>	372.60	
			<i>For Powder Coated Gate And Post, Add</i>	201.83	
			<i>For 1" Mesh Fabric, Add</i>	337.67	
			<i>For 1-1/4" Mesh Fabric, Add</i>	217.35	
			<i>For 1-3/4" Mesh Fabric, Add</i>	135.07	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-67.53	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0330	EA	7' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire .....	1,054.56	44.89
			<i>For Gate With Single Barb Wire Arm, Add</i>	101.19	
			<i>For Gate With Double Barb Wire Arm, Add</i>	147.18	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-172.48	
			<i>For Aluminized Steel Gate And Post, Add</i>	441.55	
			<i>For Powder Coated Gate And Post, Add</i>	239.17	
			<i>For 1" Mesh Fabric, Add</i>	400.16	
			<i>For 1-1/4" Mesh Fabric, Add</i>	257.57	
			<i>For 1-3/4" Mesh Fabric, Add</i>	160.06	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-80.03	
32 31 13	13-0331	EA	8' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire .....	1,218.68	51.62
			<i>For Gate With Single Barb Wire Arm, Add</i>	116.99	
			<i>For Gate With Double Barb Wire Arm, Add</i>	170.16	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-199.41	
			<i>For Aluminized Steel Gate And Post, Add</i>	510.49	
			<i>For Powder Coated Gate And Post, Add</i>	276.52	
			<i>For 1" Mesh Fabric, Add</i>	462.63	
			<i>For 1-1/4" Mesh Fabric, Add</i>	297.79	
			<i>For 1-3/4" Mesh Fabric, Add</i>	185.05	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-92.53	
32 31 13	13-0332	EA	9' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire .....	1,381.85	58.16
			<i>For Gate With Single Barb Wire Arm, Add</i>	132.79	
			<i>For Gate With Double Barb Wire Arm, Add</i>	193.15	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-226.34	
			<i>For Aluminized Steel Gate And Post, Add</i>	579.44	
			<i>For Powder Coated Gate And Post, Add</i>	313.86	
			<i>For 1" Mesh Fabric, Add</i>	525.12	
			<i>For 1-1/4" Mesh Fabric, Add</i>	338.01	
			<i>For 1-3/4" Mesh Fabric, Add</i>	210.05	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-105.02	
32 31 13	13-0333	EA	10' Wide x 7' High Single Gate Galvanized Steel Without Barbed Wire .....	1,520.09	65.00
			<i>For Gate With Single Barb Wire Arm, Add</i>	145.74	
			<i>For Gate With Double Barb Wire Arm, Add</i>	211.99	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-248.42	
			<i>For Aluminized Steel Gate And Post, Add</i>	635.96	
			<i>For Powder Coated Gate And Post, Add</i>	344.48	
			<i>For 1" Mesh Fabric, Add</i>	576.34	
			<i>For 1-1/4" Mesh Fabric, Add</i>	370.97	
			<i>For 1-3/4" Mesh Fabric, Add</i>	230.53	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-115.27	
32 31 13	13-0334	EA	10' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	1,934.29	65.00
			<i>For Gate With Single Barb Wire Arm, Add</i>	191.30	
			<i>For Gate With Double Barb Wire Arm, Add</i>	278.26	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-326.08	
			<i>For Aluminized Steel Gate And Post, Add</i>	834.77	
			<i>For Powder Coated Gate And Post, Add</i>	452.17	
			<i>For 1" Mesh Fabric, Add</i>	756.51	
			<i>For 1-1/4" Mesh Fabric, Add</i>	486.95	
			<i>For 1-3/4" Mesh Fabric, Add</i>	302.61	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-151.30	
32 31 13	13-0335	EA	12' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	2,200.10	88.67
			<i>For Gate With Single Barb Wire Arm, Add</i>	212.71	
			<i>For Gate With Double Barb Wire Arm, Add</i>	309.40	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-362.58	
			<i>For Aluminized Steel Gate And Post, Add</i>	928.20	
			<i>For Powder Coated Gate And Post, Add</i>	502.78	
			<i>For 1" Mesh Fabric, Add</i>	841.18	
			<i>For 1-1/4" Mesh Fabric, Add</i>	541.45	
			<i>For 1-3/4" Mesh Fabric, Add</i>	336.47	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-168.24	
32 31 13	13-0336	EA	14' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	2,542.87	95.55
			<i>For Gate With Single Barb Wire Arm, Add</i>	248.16	
			<i>For Gate With Double Barb Wire Arm, Add</i>	360.97	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-423.01	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,082.90	
			<i>For Powder Coated Gate And Post, Add</i>	586.57	
			<i>For 1" Mesh Fabric, Add</i>	981.38	
			<i>For 1-1/4" Mesh Fabric, Add</i>	631.69	
			<i>For 1-3/4" Mesh Fabric, Add</i>	392.55	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-196.28	
32 31 13	13-0337	EA	16' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	2,862.16	103.47
			<i>For Gate With Single Barb Wire Arm, Add</i>	280.66	
			<i>For Gate With Double Barb Wire Arm, Add</i>	408.23	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-478.39	
			<i>For Aluminized Steel Gate And Post, Add</i>	1,224.69	
			<i>For Powder Coated Gate And Post, Add</i>	663.37	
			<i>For 1" Mesh Fabric, Add</i>	1,109.87	
			<i>For 1-1/4" Mesh Fabric, Add</i>	714.40	
			<i>For 1-3/4" Mesh Fabric, Add</i>	443.95	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-221.97	





		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0338 EA 18' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	3,214.93	112.91
For Gate With Single Barb Wire Arm, Add	316.35	
For Gate With Double Barb Wire Arm, Add	460.15	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-539.24	
For Aluminized Steel Gate And Post, Add	1,380.46	
For Powder Coated Gate And Post, Add	747.75	
For 1" Mesh Fabric, Add	1,251.04	
For 1-1/4" Mesh Fabric, Add	805.27	
For 1-3/4" Mesh Fabric, Add	500.42	
For 2-1/8" Mesh Fabric, Deduct	-250.21	
32 31 13 13-0339 EA 20' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	3,567.76	124.21
For Gate With Single Barb Wire Arm, Add	351.44	
For Gate With Double Barb Wire Arm, Add	511.18	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-599.04	
For Aluminized Steel Gate And Post, Add	1,533.54	
For Powder Coated Gate And Post, Add	830.67	
For 1" Mesh Fabric, Add	1,389.77	
For 1-1/4" Mesh Fabric, Add	894.57	
For 1-3/4" Mesh Fabric, Add	555.91	
For 2-1/8" Mesh Fabric, Deduct	-277.95	
32 31 13 13-0340 EA 22' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	3,928.11	137.96
For Gate With Single Barb Wire Arm, Add	386.52	
For Gate With Double Barb Wire Arm, Add	562.21	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-658.84	
For Aluminized Steel Gate And Post, Add	1,686.63	
For Powder Coated Gate And Post, Add	913.59	
For 1" Mesh Fabric, Add	1,528.51	
For 1-1/4" Mesh Fabric, Add	983.87	
For 1-3/4" Mesh Fabric, Add	611.40	
For 2-1/8" Mesh Fabric, Deduct	-305.70	
32 31 13 13-0341 EA 24' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	4,298.84	155.21
For Gate With Single Barb Wire Arm, Add	421.60	
For Gate With Double Barb Wire Arm, Add	613.24	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-718.64	
For Aluminized Steel Gate And Post, Add	1,839.72	
For Powder Coated Gate And Post, Add	996.51	
For 1" Mesh Fabric, Add	1,667.24	
For 1-1/4" Mesh Fabric, Add	1,073.17	
For 1-3/4" Mesh Fabric, Add	666.90	
For 2-1/8" Mesh Fabric, Deduct	-333.45	
32 31 13 13-0342 EA 26' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	4,684.35	177.35
For Gate With Single Barb Wire Arm, Add	456.68	
For Gate With Double Barb Wire Arm, Add	664.27	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-778.44	
For Aluminized Steel Gate And Post, Add	1,992.80	
For Powder Coated Gate And Post, Add	1,079.43	
For 1" Mesh Fabric, Add	1,805.98	
For 1-1/4" Mesh Fabric, Add	1,162.47	
For 1-3/4" Mesh Fabric, Add	722.39	
For 2-1/8" Mesh Fabric, Deduct	-361.20	
32 31 13 13-0343 EA 28' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	5,092.07	206.94
For Gate With Single Barb Wire Arm, Add	491.77	
For Gate With Double Barb Wire Arm, Add	715.30	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-838.24	
For Aluminized Steel Gate And Post, Add	2,145.89	
For Powder Coated Gate And Post, Add	1,162.36	
For 1" Mesh Fabric, Add	1,944.71	
For 1-1/4" Mesh Fabric, Add	1,251.77	
For 1-3/4" Mesh Fabric, Add	777.88	
For 2-1/8" Mesh Fabric, Deduct	-388.94	
32 31 13 13-0344 EA 30' Wide x 7' High Double Gate Galvanized Steel Without Barbed Wire .....	5,535.29	248.32
For Gate With Single Barb Wire Arm, Add	526.85	
For Gate With Double Barb Wire Arm, Add	766.32	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-898.04	
For Aluminized Steel Gate And Post, Add	2,298.97	
For Powder Coated Gate And Post, Add	1,245.28	
For 1" Mesh Fabric, Add	2,083.45	
For 1-1/4" Mesh Fabric, Add	1,341.07	
For 1-3/4" Mesh Fabric, Add	833.38	
For 2-1/8" Mesh Fabric, Deduct	-416.69	
<b>32 31 13 13-0345 8' Fence Height</b> <small>(32 31 13 13-0264)</small>		
32 31 13 13-0346 EA 3' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	570.92	32.50
For Gate With Single Barb Wire Arm, Add	52.07	
For Gate With Double Barb Wire Arm, Add	75.73	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.75	
For Aluminized Steel Gate And Post, Add	227.20	
For Powder Coated Gate And Post, Add	123.07	
For 1" Mesh Fabric, Add	205.90	
For 1-1/4" Mesh Fabric, Add	132.53	
For 1-3/4" Mesh Fabric, Add	82.36	
For 2-1/8" Mesh Fabric, Deduct	-41.18	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0347 EA 4' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	728.71	32.50
For Gate With Single Barb Wire Arm, Add	69.42	
For Gate With Double Barb Wire Arm, Add	100.98	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-118.34	
For Aluminized Steel Gate And Post, Add	302.94	
For Powder Coated Gate And Post, Add	164.09	
For 1" Mesh Fabric, Add	274.54	
For 1-1/4" Mesh Fabric, Add	176.71	
For 1-3/4" Mesh Fabric, Add	109.81	
For 2-1/8" Mesh Fabric, Deduct	-54.91	
32 31 13 13-0348 EA 5' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	851.07	36.21
For Gate With Single Barb Wire Arm, Add	81.65	
For Gate With Double Barb Wire Arm, Add	118.76	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.17	
For Aluminized Steel Gate And Post, Add	356.28	
For Powder Coated Gate And Post, Add	192.99	
For 1" Mesh Fabric, Add	322.88	
For 1-1/4" Mesh Fabric, Add	207.83	
For 1-3/4" Mesh Fabric, Add	129.15	
For 2-1/8" Mesh Fabric, Deduct	-64.58	
32 31 13 13-0349 EA 6' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	976.37	40.99
For Gate With Single Barb Wire Arm, Add	93.88	
For Gate With Double Barb Wire Arm, Add	136.55	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-160.01	
For Aluminized Steel Gate And Post, Add	409.64	
For Powder Coated Gate And Post, Add	221.89	
For 1" Mesh Fabric, Add	371.23	
For 1-1/4" Mesh Fabric, Add	238.95	
For 1-3/4" Mesh Fabric, Add	148.49	
For 2-1/8" Mesh Fabric, Deduct	-74.25	
32 31 13 13-0350 EA 7' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	1,112.90	49.37
For Gate With Single Barb Wire Arm, Add	106.10	
For Gate With Double Barb Wire Arm, Add	154.33	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-180.86	
For Aluminized Steel Gate And Post, Add	462.99	
For Powder Coated Gate And Post, Add	250.79	
For 1" Mesh Fabric, Add	419.59	
For 1-1/4" Mesh Fabric, Add	270.08	
For 1-3/4" Mesh Fabric, Add	167.84	
For 2-1/8" Mesh Fabric, Deduct	-83.92	
32 31 13 13-0351 EA 8' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	1,248.46	57.48
For Gate With Single Barb Wire Arm, Add	118.33	
For Gate With Double Barb Wire Arm, Add	172.12	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-201.70	
For Aluminized Steel Gate And Post, Add	516.35	
For Powder Coated Gate And Post, Add	279.69	
For 1" Mesh Fabric, Add	467.94	
For 1-1/4" Mesh Fabric, Add	301.20	
For 1-3/4" Mesh Fabric, Add	187.18	
For 2-1/8" Mesh Fabric, Deduct	-93.59	
32 31 13 13-0352 EA 9' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	1,385.00	65.97
For Gate With Single Barb Wire Arm, Add	130.56	
For Gate With Double Barb Wire Arm, Add	189.90	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-222.54	
For Aluminized Steel Gate And Post, Add	569.71	
For Powder Coated Gate And Post, Add	308.59	
For 1" Mesh Fabric, Add	516.30	
For 1-1/4" Mesh Fabric, Add	332.33	
For 1-3/4" Mesh Fabric, Add	206.52	
For 2-1/8" Mesh Fabric, Deduct	-103.26	
32 31 13 13-0353 EA 10' Wide x 8' High Single Gate Galvanized Steel Without Barbed Wire .....	1,521.51	74.46
For Gate With Single Barb Wire Arm, Add	142.79	
For Gate With Double Barb Wire Arm, Add	207.69	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-243.38	
For Aluminized Steel Gate And Post, Add	623.06	
For Powder Coated Gate And Post, Add	337.49	
For 1" Mesh Fabric, Add	564.65	
For 1-1/4" Mesh Fabric, Add	363.45	
For 1-3/4" Mesh Fabric, Add	225.86	
For 2-1/8" Mesh Fabric, Deduct	-112.93	
32 31 13 13-0354 EA 10' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	2,213.45	88.67
For Gate With Single Barb Wire Arm, Add	214.18	
For Gate With Double Barb Wire Arm, Add	311.54	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-365.08	
For Aluminized Steel Gate And Post, Add	934.61	
For Powder Coated Gate And Post, Add	506.25	
For 1" Mesh Fabric, Add	846.99	
For 1-1/4" Mesh Fabric, Add	545.19	
For 1-3/4" Mesh Fabric, Add	338.80	
For 2-1/8" Mesh Fabric, Deduct	-169.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0355	EA 12' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	2,608.85 255.42 371.52 -435.38 1,114.57 603.73 1,010.08 650.17 404.03 -202.02	95.55
32 31	13	13-0356	EA 14' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,013.23 297.28 432.40 -506.72 1,297.20 702.65 1,175.59 756.70 470.24 -235.12	103.47
32 31	13	13-0357	EA 16' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,433.15 340.36 495.07 -580.16 1,485.20 804.48 1,345.96 866.37 538.39 -269.19	112.91
32 31	13	13-0358	EA 18 Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	3,858.71 383.44 557.73 -653.59 1,673.20 906.32 1,516.34 976.03 606.53 -303.27	124.21
32 31	13	13-0359	EA 20' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,286.21 425.91 619.51 -725.98 1,858.52 1,006.70 1,684.28 1,084.13 673.71 -336.86	137.96
32 31	13	13-0360	EA 22' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	4,718.48 467.76 680.38 -797.32 2,041.14 1,105.62 1,849.79 1,190.67 739.91 -369.96	155.21
32 31	13	13-0361	EA 24' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	5,176.73 510.85 743.05 -870.76 2,229.14 1,207.45 2,020.16 1,300.33 808.06 -404.03	177.35
32 31	13	13-0362	EA 26' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i>	5,657.19 553.93 805.72 -944.20 2,417.15 1,309.29 2,190.54 1,410.00 876.22 -438.11	206.94

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0363 EA 28' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	6,167.55	248.32
For Gate With Single Barb Wire Arm, Add	596.40	
For Gate With Double Barb Wire Arm, Add	867.49	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,016.59	
For Aluminized Steel Gate And Post, Add	2,602.46	
For Powder Coated Gate And Post, Add	1,409.67	
For 1" Mesh Fabric, Add	2,358.48	
For 1-1/4" Mesh Fabric, Add	1,518.10	
For 1-3/4" Mesh Fabric, Add	943.39	
For 2-1/8" Mesh Fabric, Deduct	-471.70	
32 31 13 13-0364 EA 30' Wide x 8' High Double Gate Galvanized Steel Without Barbed Wire .....	6,740.05	310.42
For Gate With Single Barb Wire Arm, Add	638.86	
For Gate With Double Barb Wire Arm, Add	929.26	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-1,088.97	
For Aluminized Steel Gate And Post, Add	2,787.77	
For Powder Coated Gate And Post, Add	1,510.04	
For 1" Mesh Fabric, Add	2,526.42	
For 1-1/4" Mesh Fabric, Add	1,626.20	
For 1-3/4" Mesh Fabric, Add	1,010.57	
For 2-1/8" Mesh Fabric, Deduct	-505.28	
<b>32 31 13 13-0365 10' Fence Height (32 31 13 13-0264)</b>		
32 31 13 13-0366 EA 3' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	720.51	36.11
For Gate With Single Barb Wire Arm, Add	67.33	
For Gate With Double Barb Wire Arm, Add	97.93	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-114.77	
For Aluminized Steel Gate And Post, Add	293.80	
For Powder Coated Gate And Post, Add	159.14	
For 1" Mesh Fabric, Add	266.25	
For 1-1/4" Mesh Fabric, Add	171.38	
For 1-3/4" Mesh Fabric, Add	106.50	
For 2-1/8" Mesh Fabric, Deduct	-53.25	
32 31 13 13-0367 EA 4' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	924.54	36.11
For Gate With Single Barb Wire Arm, Add	89.77	
For Gate With Double Barb Wire Arm, Add	130.58	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-153.02	
For Aluminized Steel Gate And Post, Add	391.73	
For Powder Coated Gate And Post, Add	212.19	
For 1" Mesh Fabric, Add	355.01	
For 1-1/4" Mesh Fabric, Add	228.51	
For 1-3/4" Mesh Fabric, Add	142.00	
For 2-1/8" Mesh Fabric, Deduct	-71.00	
32 31 13 13-0368 EA 5' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	1,073.06	37.67
For Gate With Single Barb Wire Arm, Add	105.58	
For Gate With Double Barb Wire Arm, Add	153.58	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-179.97	
For Aluminized Steel Gate And Post, Add	460.73	
For Powder Coated Gate And Post, Add	249.56	
For 1" Mesh Fabric, Add	417.54	
For 1-1/4" Mesh Fabric, Add	268.76	
For 1-3/4" Mesh Fabric, Add	167.02	
For 2-1/8" Mesh Fabric, Deduct	-83.51	
32 31 13 13-0369 EA 6' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	1,244.13	46.84
For Gate With Single Barb Wire Arm, Add	121.40	
For Gate With Double Barb Wire Arm, Add	176.58	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-206.93	
For Aluminized Steel Gate And Post, Add	529.73	
For Powder Coated Gate And Post, Add	286.94	
For 1" Mesh Fabric, Add	480.07	
For 1-1/4" Mesh Fabric, Add	309.01	
For 1-3/4" Mesh Fabric, Add	192.03	
For 2-1/8" Mesh Fabric, Deduct	-96.01	
32 31 13 13-0370 EA 7' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	1,414.61	55.52
For Gate With Single Barb Wire Arm, Add	137.21	
For Gate With Double Barb Wire Arm, Add	199.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-233.87	
For Aluminized Steel Gate And Post, Add	598.71	
For Powder Coated Gate And Post, Add	324.30	
For 1" Mesh Fabric, Add	542.58	
For 1-1/4" Mesh Fabric, Add	349.25	
For 1-3/4" Mesh Fabric, Add	217.03	
For 2-1/8" Mesh Fabric, Deduct	-108.52	
32 31 13 13-0371 EA 8' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	1,585.27	64.70
For Gate With Single Barb Wire Arm, Add	153.02	
For Gate With Double Barb Wire Arm, Add	222.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-260.83	
For Aluminized Steel Gate And Post, Add	667.71	
For Powder Coated Gate And Post, Add	361.68	
For 1" Mesh Fabric, Add	605.12	
For 1-1/4" Mesh Fabric, Add	389.50	
For 1-3/4" Mesh Fabric, Add	242.05	
For 2-1/8" Mesh Fabric, Deduct	-121.02	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0372 EA 9' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	1,755.35	73.49
For Gate With Single Barb Wire Arm, Add	168.83	
For Gate With Double Barb Wire Arm, Add	245.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-287.78	
For Aluminized Steel Gate And Post, Add	736.71	
For Powder Coated Gate And Post, Add	399.05	
For 1" Mesh Fabric, Add	667.65	
For 1-1/4" Mesh Fabric, Add	429.75	
For 1-3/4" Mesh Fabric, Add	267.06	
For 2-1/8" Mesh Fabric, Deduct	-133.53	
32 31 13 13-0373 EA 10' Wide x 10' High Single Gate Galvanized Steel Without Barbed Wire .....	1,926.45	82.56
For Gate With Single Barb Wire Arm, Add	184.64	
For Gate With Double Barb Wire Arm, Add	268.57	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-314.73	
For Aluminized Steel Gate And Post, Add	805.71	
For Powder Coated Gate And Post, Add	436.43	
For 1" Mesh Fabric, Add	730.18	
For 1-1/4" Mesh Fabric, Add	470.00	
For 1-3/4" Mesh Fabric, Add	292.07	
For 2-1/8" Mesh Fabric, Deduct	-146.04	
32 31 13 13-0374 EA 10' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	2,813.78	98.58
For Gate With Single Barb Wire Arm, Add	276.96	
For Gate With Double Barb Wire Arm, Add	402.85	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-472.10	
For Aluminized Steel Gate And Post, Add	1,208.56	
For Powder Coated Gate And Post, Add	654.64	
For 1" Mesh Fabric, Add	1,095.26	
For 1-1/4" Mesh Fabric, Add	705.00	
For 1-3/4" Mesh Fabric, Add	438.10	
For 2-1/8" Mesh Fabric, Deduct	-219.05	
32 31 13 13-0375 EA 12' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	3,060.30	106.04
For Gate With Single Barb Wire Arm, Add	301.59	
For Gate With Double Barb Wire Arm, Add	438.67	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-514.07	
For Aluminized Steel Gate And Post, Add	1,316.02	
For Powder Coated Gate And Post, Add	712.84	
For 1" Mesh Fabric, Add	1,192.64	
For 1-1/4" Mesh Fabric, Add	767.68	
For 1-3/4" Mesh Fabric, Add	477.06	
For 2-1/8" Mesh Fabric, Deduct	-238.53	
32 31 13 13-0376 EA 14' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	3,489.78	115.01
For Gate With Single Barb Wire Arm, Add	345.90	
For Gate With Double Barb Wire Arm, Add	503.12	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-589.60	
For Aluminized Steel Gate And Post, Add	1,509.37	
For Powder Coated Gate And Post, Add	817.58	
For 1" Mesh Fabric, Add	1,367.87	
For 1-1/4" Mesh Fabric, Add	880.47	
For 1-3/4" Mesh Fabric, Add	547.15	
For 2-1/8" Mesh Fabric, Deduct	-273.57	
32 31 13 13-0377 EA 16' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	3,968.63	125.38
For Gate With Single Barb Wire Arm, Add	395.14	
For Gate With Double Barb Wire Arm, Add	574.74	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-673.53	
For Aluminized Steel Gate And Post, Add	1,724.23	
For Powder Coated Gate And Post, Add	933.96	
For 1" Mesh Fabric, Add	1,562.58	
For 1-1/4" Mesh Fabric, Add	1,005.80	
For 1-3/4" Mesh Fabric, Add	625.03	
For 2-1/8" Mesh Fabric, Deduct	-312.52	
32 31 13 13-0378 EA 18' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	4,454.06	137.96
For Gate With Single Barb Wire Arm, Add	444.37	
For Gate With Double Barb Wire Arm, Add	646.36	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-757.46	
For Aluminized Steel Gate And Post, Add	1,939.08	
For Powder Coated Gate And Post, Add	1,050.34	
For 1" Mesh Fabric, Add	1,757.30	
For 1-1/4" Mesh Fabric, Add	1,131.13	
For 1-3/4" Mesh Fabric, Add	702.92	
For 2-1/8" Mesh Fabric, Deduct	-351.46	
32 31 13 13-0379 EA 20' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	4,950.29	153.23
For Gate With Single Barb Wire Arm, Add	493.92	
For Gate With Double Barb Wire Arm, Add	718.43	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-841.91	
For Aluminized Steel Gate And Post, Add	2,155.29	
For Powder Coated Gate And Post, Add	1,167.45	
For 1" Mesh Fabric, Add	1,953.23	
For 1-1/4" Mesh Fabric, Add	1,257.25	
For 1-3/4" Mesh Fabric, Add	781.29	
For 2-1/8" Mesh Fabric, Deduct	-390.65	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0380	EA	22' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	5,458.49	172.45
			<i>For Gate With Single Barb Wire Arm, Add</i>	543.47	
			<i>For Gate With Double Barb Wire Arm, Add</i>	790.50	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-926.36	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,371.49	
			<i>For Powder Coated Gate And Post, Add</i>	1,284.56	
			<i>For 1" Mesh Fabric, Add</i>	2,149.16	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,383.37	
			<i>For 1-3/4" Mesh Fabric, Add</i>	859.66	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-429.83	
32 31 13	13-0381	EA	24' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	5,979.71	196.93
			<i>For Gate With Single Barb Wire Arm, Add</i>	592.70	
			<i>For Gate With Double Barb Wire Arm, Add</i>	862.12	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,010.29	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,586.35	
			<i>For Powder Coated Gate And Post, Add</i>	1,400.94	
			<i>For 1" Mesh Fabric, Add</i>	2,343.88	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,508.70	
			<i>For 1-3/4" Mesh Fabric, Add</i>	937.55	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-468.78	
32 31 13	13-0382	EA	26' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	6,526.35	229.90
			<i>For Gate With Single Barb Wire Arm, Add</i>	641.94	
			<i>For Gate With Double Barb Wire Arm, Add</i>	933.73	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,094.22	
			<i>For Aluminized Steel Gate And Post, Add</i>	2,801.20	
			<i>For Powder Coated Gate And Post, Add</i>	1,517.32	
			<i>For 1" Mesh Fabric, Add</i>	2,538.59	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,634.04	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,015.44	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-507.72	
32 31 13	13-0383	EA	28' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	7,111.33	275.69
			<i>For Gate With Single Barb Wire Arm, Add</i>	691.18	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,005.35	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,178.15	
			<i>For Aluminized Steel Gate And Post, Add</i>	3,016.06	
			<i>For Powder Coated Gate And Post, Add</i>	1,633.70	
			<i>For 1" Mesh Fabric, Add</i>	2,733.30	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,759.37	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,093.32	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-546.66	
32 31 13	13-0384	EA	30' Wide x 10' High Double Gate Galvanized Steel Without Barbed Wire .....	7,772.44	344.91
			<i>For Gate With Single Barb Wire Arm, Add</i>	741.03	
			<i>For Gate With Double Barb Wire Arm, Add</i>	1,077.87	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,263.13	
			<i>For Aluminized Steel Gate And Post, Add</i>	3,233.60	
			<i>For Powder Coated Gate And Post, Add</i>	1,751.53	
			<i>For 1" Mesh Fabric, Add</i>	2,930.45	
			<i>For 1-1/4" Mesh Fabric, Add</i>	1,886.27	
			<i>For 1-3/4" Mesh Fabric, Add</i>	1,172.18	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-586.09	
<b>32 31 13</b>	<b>13-0385</b>		<b>12' Fence Height</b> <small>(32 31 13 13-0264)</small>		
32 31 13	13-0386	EA	3' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire .....	903.95	40.11
			<i>For Gate With Single Barb Wire Arm, Add</i>	86.18	
			<i>For Gate With Double Barb Wire Arm, Add</i>	125.36	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-146.90	
			<i>For Aluminized Steel Gate And Post, Add</i>	376.07	
			<i>For Powder Coated Gate And Post, Add</i>	203.70	
			<i>For 1" Mesh Fabric, Add</i>	340.81	
			<i>For 1-1/4" Mesh Fabric, Add</i>	219.37	
			<i>For 1-3/4" Mesh Fabric, Add</i>	136.32	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-68.16	
32 31 13	13-0387	EA	4' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire .....	1,165.09	40.11
			<i>For Gate With Single Barb Wire Arm, Add</i>	114.91	
			<i>For Gate With Double Barb Wire Arm, Add</i>	167.14	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-195.86	
			<i>For Aluminized Steel Gate And Post, Add</i>	501.41	
			<i>For Powder Coated Gate And Post, Add</i>	271.60	
			<i>For 1" Mesh Fabric, Add</i>	454.41	
			<i>For 1-1/4" Mesh Fabric, Add</i>	292.49	
			<i>For 1-3/4" Mesh Fabric, Add</i>	181.76	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-90.88	
32 31 13	13-0388	EA	5' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire .....	1,353.53	41.57
			<i>For Gate With Single Barb Wire Arm, Add</i>	135.15	
			<i>For Gate With Double Barb Wire Arm, Add</i>	196.58	
			<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-230.37	
			<i>For Aluminized Steel Gate And Post, Add</i>	589.74	
			<i>For Powder Coated Gate And Post, Add</i>	319.44	
			<i>For 1" Mesh Fabric, Add</i>	534.45	
			<i>For 1-1/4" Mesh Fabric, Add</i>	344.01	
			<i>For 1-3/4" Mesh Fabric, Add</i>	213.78	
			<i>For 2-1/8" Mesh Fabric, Deduct</i>	-106.89	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0389 EA 6' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire .....	1,567.77	51.62
For Gate With Single Barb Wire Arm, Add	155.39	
For Gate With Double Barb Wire Arm, Add	226.02	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-264.86	
For Aluminized Steel Gate And Post, Add	678.05	
For Powder Coated Gate And Post, Add	367.28	
For 1" Mesh Fabric, Add	614.49	
For 1-1/4" Mesh Fabric, Add	395.53	
For 1-3/4" Mesh Fabric, Add	245.79	
For 2-1/8" Mesh Fabric, Deduct	-122.90	
32 31 13 13-0390 EA 7' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire .....	656.68	61.78
For Gate With Single Barb Wire Arm, Add	51.84	
For Gate With Double Barb Wire Arm, Add	75.40	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-88.36	
For Aluminized Steel Gate And Post, Add	226.20	
For Powder Coated Gate And Post, Add	122.53	
For 1" Mesh Fabric, Add	205.00	
For 1-1/4" Mesh Fabric, Add	131.95	
For 1-3/4" Mesh Fabric, Add	82.00	
For 2-1/8" Mesh Fabric, Deduct	-41.00	
32 31 13 13-0391 EA 8' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire .....	740.27	71.53
For Gate With Single Barb Wire Arm, Add	57.81	
For Gate With Double Barb Wire Arm, Add	84.09	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-98.54	
For Aluminized Steel Gate And Post, Add	252.27	
For Powder Coated Gate And Post, Add	136.65	
For 1" Mesh Fabric, Add	228.62	
For 1-1/4" Mesh Fabric, Add	147.16	
For 1-3/4" Mesh Fabric, Add	91.45	
For 2-1/8" Mesh Fabric, Deduct	-45.72	
32 31 13 13-0392 EA 9' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire .....	824.83	81.58
For Gate With Single Barb Wire Arm, Add	63.79	
For Gate With Double Barb Wire Arm, Add	92.78	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-108.73	
For Aluminized Steel Gate And Post, Add	278.34	
For Powder Coated Gate And Post, Add	150.77	
For 1" Mesh Fabric, Add	252.25	
For 1-1/4" Mesh Fabric, Add	162.37	
For 1-3/4" Mesh Fabric, Add	100.90	
For 2-1/8" Mesh Fabric, Deduct	-50.45	
32 31 13 13-0393 EA 10' Wide x 12' High Single Gate Galvanized Steel Without Barbed Wire .....	909.39	91.64
For Gate With Single Barb Wire Arm, Add	69.76	
For Gate With Double Barb Wire Arm, Add	101.47	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-118.91	
For Aluminized Steel Gate And Post, Add	304.41	
For Powder Coated Gate And Post, Add	164.89	
For 1" Mesh Fabric, Add	275.87	
For 1-1/4" Mesh Fabric, Add	177.57	
For 1-3/4" Mesh Fabric, Add	110.35	
For 2-1/8" Mesh Fabric, Deduct	-55.17	
32 31 13 13-0394 EA 10' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	1,212.40	109.54
For Gate With Single Barb Wire Arm, Add	97.19	
For Gate With Double Barb Wire Arm, Add	141.37	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.67	
For Aluminized Steel Gate And Post, Add	424.12	
For Powder Coated Gate And Post, Add	229.73	
For 1" Mesh Fabric, Add	384.36	
For 1-1/4" Mesh Fabric, Add	247.40	
For 1-3/4" Mesh Fabric, Add	153.74	
For 2-1/8" Mesh Fabric, Deduct	-76.87	
32 31 13 13-0395 EA 12' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	1,325.02	117.92
For Gate With Single Barb Wire Arm, Add	106.82	
For Gate With Double Barb Wire Arm, Add	155.38	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-182.09	
For Aluminized Steel Gate And Post, Add	466.14	
For Powder Coated Gate And Post, Add	252.49	
For 1" Mesh Fabric, Add	422.44	
For 1-1/4" Mesh Fabric, Add	271.91	
For 1-3/4" Mesh Fabric, Add	168.97	
For 2-1/8" Mesh Fabric, Deduct	-84.49	
32 31 13 13-0396 EA 14' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	1,496.77	127.71
For Gate With Single Barb Wire Arm, Add	122.45	
For Gate With Double Barb Wire Arm, Add	178.10	
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-208.72	
For Aluminized Steel Gate And Post, Add	534.31	
For Powder Coated Gate And Post, Add	289.42	
For 1" Mesh Fabric, Add	484.22	
For 1-1/4" Mesh Fabric, Add	311.68	
For 1-3/4" Mesh Fabric, Add	193.69	
For 2-1/8" Mesh Fabric, Deduct	-96.84	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0397	EA	16' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	1,690.10	139.25
		<i>For Gate With Single Barb Wire Arm, Add</i>	139.89	
		<i>For Gate With Double Barb Wire Arm, Add</i>	203.47	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-238.44	
		<i>For Aluminized Steel Gate And Post, Add</i>	610.42	
		<i>For Powder Coated Gate And Post, Add</i>	330.64	
		<i>For 1" Mesh Fabric, Add</i>	553.19	
		<i>For 1-1/4" Mesh Fabric, Add</i>	356.08	
		<i>For 1-3/4" Mesh Fabric, Add</i>	221.28	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-110.64	
32 31 13 13-0398	EA	18' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	5,305.59	153.35
		<i>For Gate With Single Barb Wire Arm, Add</i>	533.00	
		<i>For Gate With Double Barb Wire Arm, Add</i>	775.28	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-908.53	
		<i>For Aluminized Steel Gate And Post, Add</i>	2,325.83	
		<i>For Powder Coated Gate And Post, Add</i>	1,259.82	
		<i>For 1" Mesh Fabric, Add</i>	2,107.78	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,356.73	
		<i>For 1-3/4" Mesh Fabric, Add</i>	843.11	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-421.56	
32 31 13 13-0399	EA	20' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	5,899.29	170.24
		<i>For Gate With Single Barb Wire Arm, Add</i>	592.70	
		<i>For Gate With Double Barb Wire Arm, Add</i>	862.12	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,010.29	
		<i>For Aluminized Steel Gate And Post, Add</i>	2,586.35	
		<i>For Powder Coated Gate And Post, Add</i>	1,400.94	
		<i>For 1" Mesh Fabric, Add</i>	2,343.88	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,508.70	
		<i>For 1-3/4" Mesh Fabric, Add</i>	937.55	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-468.78	
32 31 13 13-0400	EA	22' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	6,500.79	191.57
		<i>For Gate With Single Barb Wire Arm, Add</i>	651.79	
		<i>For Gate With Double Barb Wire Arm, Add</i>	948.06	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,111.01	
		<i>For Aluminized Steel Gate And Post, Add</i>	2,844.17	
		<i>For Powder Coated Gate And Post, Add</i>	1,540.59	
		<i>For 1" Mesh Fabric, Add</i>	2,577.53	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,659.10	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,031.01	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-515.51	
32 31 13 13-0401	EA	24' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	7,125.31	218.83
		<i>For Gate With Single Barb Wire Arm, Add</i>	711.49	
		<i>For Gate With Double Barb Wire Arm, Add</i>	1,034.90	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,212.77	
		<i>For Aluminized Steel Gate And Post, Add</i>	3,104.69	
		<i>For Powder Coated Gate And Post, Add</i>	1,681.71	
		<i>For 1" Mesh Fabric, Add</i>	2,813.62	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,811.07	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,125.45	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-562.72	
32 31 13 13-0402	EA	26' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	7,766.88	255.54
		<i>For Gate With Single Barb Wire Arm, Add</i>	769.96	
		<i>For Gate With Double Barb Wire Arm, Add</i>	1,119.94	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,312.43	
		<i>For Aluminized Steel Gate And Post, Add</i>	3,359.83	
		<i>For Powder Coated Gate And Post, Add</i>	1,819.91	
		<i>For 1" Mesh Fabric, Add</i>	3,044.85	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,959.90	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,217.94	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-608.97	
32 31 13 13-0403	EA	28' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	8,456.66	306.35
		<i>For Gate With Single Barb Wire Arm, Add</i>	829.05	
		<i>For Gate With Double Barb Wire Arm, Add</i>	1,205.89	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,413.15	
		<i>For Aluminized Steel Gate And Post, Add</i>	3,617.66	
		<i>For Powder Coated Gate And Post, Add</i>	1,959.57	
		<i>For 1" Mesh Fabric, Add</i>	3,278.50	
		<i>For 1-1/4" Mesh Fabric, Add</i>	2,110.30	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,311.40	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-655.70	
32 31 13 13-0404	EA	30' Wide x 12' High Double Gate Galvanized Steel Without Barbed Wire .....	9,230.39	383.25
		<i>For Gate With Single Barb Wire Arm, Add</i>	888.75	
		<i>For Gate With Double Barb Wire Arm, Add</i>	1,292.72	
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-1,514.91	
		<i>For Aluminized Steel Gate And Post, Add</i>	3,878.17	
		<i>For Powder Coated Gate And Post, Add</i>	2,100.68	
		<i>For 1" Mesh Fabric, Add</i>	3,514.60	
		<i>For 1-1/4" Mesh Fabric, Add</i>	2,262.27	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,405.84	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-702.92	

**32 31 13 13-0405 Vinyl Coated Without Barb Wire Arm** (32 31 13 13-0263)

Note: Industrial swing gate. Includes posts (3" diameter posts for up to 6' wide gate, 4" diameter to 13' wide, 6-5/8" diameter for 18' wide, 8-5/8" diameter for over 18' wide), 2" diameter schedule pipe frame, offset hinges, cap and hardware (drop rod, center locking device, gate keeper, catch bolt and tension bands). Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating.





		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 31 13	13-0406	<b>4' Fence Height</b> <small>(32 31 13 13-0405)</small>		
32 31 13	13-0407	EA 3' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	183.40	24.39
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-20.66	
		<i>For 1" Mesh Fabric, Add</i>	47.94	
		<i>For 1-1/4" Mesh Fabric, Add</i>	30.86	
		<i>For 1-3/4" Mesh Fabric, Add</i>	19.18	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-9.59	
		<i>For Gate With Single Barb Wire Arm, Add</i>	12.12	
		<i>For Gate With Double Barb Wire Arm, Add</i>	17.63	
32 31 13	13-0408	EA 4' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	220.13	24.39
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-27.55	
		<i>For 1" Mesh Fabric, Add</i>	63.92	
		<i>For 1-1/4" Mesh Fabric, Add</i>	41.14	
		<i>For 1-3/4" Mesh Fabric, Add</i>	25.57	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-12.78	
		<i>For Gate With Single Barb Wire Arm, Add</i>	16.16	
		<i>For Gate With Double Barb Wire Arm, Add</i>	23.51	
32 31 13	13-0409	EA 5' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	255.63	25.96
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-33.29	
		<i>For 1" Mesh Fabric, Add</i>	77.24	
		<i>For 1-1/4" Mesh Fabric, Add</i>	49.72	
		<i>For 1-3/4" Mesh Fabric, Add</i>	30.90	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-15.45	
		<i>For Gate With Single Barb Wire Arm, Add</i>	19.53	
		<i>For Gate With Double Barb Wire Arm, Add</i>	28.41	
32 31 13	13-0410	EA 6' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	301.86	31.23
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-39.03	
		<i>For 1" Mesh Fabric, Add</i>	90.55	
		<i>For 1-1/4" Mesh Fabric, Add</i>	58.29	
		<i>For 1-3/4" Mesh Fabric, Add</i>	36.22	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-18.11	
		<i>For Gate With Single Barb Wire Arm, Add</i>	22.90	
		<i>For Gate With Double Barb Wire Arm, Add</i>	33.31	
32 31 13	13-0411	EA 7' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	348.07	36.40
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-44.77	
		<i>For 1" Mesh Fabric, Add</i>	103.86	
		<i>For 1-1/4" Mesh Fabric, Add</i>	66.86	
		<i>For 1-3/4" Mesh Fabric, Add</i>	41.55	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-20.77	
		<i>For Gate With Single Barb Wire Arm, Add</i>	26.26	
		<i>For Gate With Double Barb Wire Arm, Add</i>	38.20	
32 31 13	13-0412	EA 8' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	394.31	41.57
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-50.51	
		<i>For 1" Mesh Fabric, Add</i>	117.19	
		<i>For 1-1/4" Mesh Fabric, Add</i>	75.43	
		<i>For 1-3/4" Mesh Fabric, Add</i>	46.88	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-23.44	
		<i>For Gate With Single Barb Wire Arm, Add</i>	29.63	
		<i>For Gate With Double Barb Wire Arm, Add</i>	43.10	
32 31 13	13-0413	EA 9' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	440.54	46.84
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-56.25	
		<i>For 1" Mesh Fabric, Add</i>	130.50	
		<i>For 1-1/4" Mesh Fabric, Add</i>	84.00	
		<i>For 1-3/4" Mesh Fabric, Add</i>	52.20	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-26.10	
		<i>For Gate With Single Barb Wire Arm, Add</i>	33.00	
		<i>For Gate With Double Barb Wire Arm, Add</i>	48.00	
32 31 13	13-0414	EA 10' Wide x 4' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	486.75	52.01
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-61.99	
		<i>For 1" Mesh Fabric, Add</i>	143.82	
		<i>For 1-1/4" Mesh Fabric, Add</i>	92.57	
		<i>For 1-3/4" Mesh Fabric, Add</i>	57.53	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-28.76	
		<i>For Gate With Single Barb Wire Arm, Add</i>	36.37	
		<i>For Gate With Double Barb Wire Arm, Add</i>	52.90	
32 31 13	13-0415	EA 10' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	596.96	52.01
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-82.65	
		<i>For 1" Mesh Fabric, Add</i>	191.76	
		<i>For 1-1/4" Mesh Fabric, Add</i>	123.43	
		<i>For 1-3/4" Mesh Fabric, Add</i>	76.70	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-38.35	
		<i>For Gate With Single Barb Wire Arm, Add</i>	48.49	
		<i>For Gate With Double Barb Wire Arm, Add</i>	70.53	
32 31 13	13-0416	EA 12' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	696.28	55.72
		<i>For 1-5/8" Schedule 40 Pipe Frame, Deduct</i>	-99.19	
		<i>For 1" Mesh Fabric, Add</i>	230.11	
		<i>For 1-1/4" Mesh Fabric, Add</i>	148.12	
		<i>For 1-3/4" Mesh Fabric, Add</i>	92.04	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-46.02	
		<i>For Gate With Single Barb Wire Arm, Add</i>	58.19	
		<i>For Gate With Double Barb Wire Arm, Add</i>	84.64	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0417 EA 14' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	797.31	60.02
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-115.72	
For 1" Mesh Fabric, Add	268.46	
For 1-1/4" Mesh Fabric, Add	172.80	
For 1-3/4" Mesh Fabric, Add	107.38	
For 2-1/8" Mesh Fabric, Deduct	-53.69	
For Gate With Single Barb Wire Arm, Add	67.89	
For Gate With Double Barb Wire Arm, Add	98.74	
32 31 13 13-0418 EA 16' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	900.50	65.00
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-132.25	
For 1" Mesh Fabric, Add	306.81	
For 1-1/4" Mesh Fabric, Add	197.49	
For 1-3/4" Mesh Fabric, Add	122.73	
For 2-1/8" Mesh Fabric, Deduct	-61.36	
For Gate With Single Barb Wire Arm, Add	77.59	
For Gate With Double Barb Wire Arm, Add	112.85	
32 31 13 13-0419 EA 18' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,042.07	82.73
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-148.78	
For 1" Mesh Fabric, Add	345.16	
For 1-1/4" Mesh Fabric, Add	222.17	
For 1-3/4" Mesh Fabric, Add	138.07	
For 2-1/8" Mesh Fabric, Deduct	-69.03	
For Gate With Single Barb Wire Arm, Add	87.28	
For Gate With Double Barb Wire Arm, Add	126.96	
32 31 13 13-0420 EA 20' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,147.99	88.67
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-165.31	
For 1" Mesh Fabric, Add	383.51	
For 1-1/4" Mesh Fabric, Add	246.86	
For 1-3/4" Mesh Fabric, Add	153.41	
For 2-1/8" Mesh Fabric, Deduct	-76.70	
For Gate With Single Barb Wire Arm, Add	96.98	
For Gate With Double Barb Wire Arm, Add	141.06	
32 31 13 13-0421 EA 22' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,256.64	95.55
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-181.84	
For 1" Mesh Fabric, Add	421.87	
For 1-1/4" Mesh Fabric, Add	271.55	
For 1-3/4" Mesh Fabric, Add	168.75	
For 2-1/8" Mesh Fabric, Deduct	-84.37	
For Gate With Single Barb Wire Arm, Add	106.68	
For Gate With Double Barb Wire Arm, Add	155.17	
32 31 13 13-0422 EA 24' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,368.70	103.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-198.37	
For 1" Mesh Fabric, Add	460.22	
For 1-1/4" Mesh Fabric, Add	296.23	
For 1-3/4" Mesh Fabric, Add	184.09	
For 2-1/8" Mesh Fabric, Deduct	-92.04	
For Gate With Single Barb Wire Arm, Add	116.38	
For Gate With Double Barb Wire Arm, Add	169.28	
32 31 13 13-0423 EA 26' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,485.12	112.91
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-214.90	
For 1" Mesh Fabric, Add	498.57	
For 1-1/4" Mesh Fabric, Add	320.92	
For 1-3/4" Mesh Fabric, Add	199.43	
For 2-1/8" Mesh Fabric, Deduct	-99.71	
For Gate With Single Barb Wire Arm, Add	126.08	
For Gate With Double Barb Wire Arm, Add	183.38	
32 31 13 13-0424 EA 28' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,607.18	124.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-231.43	
For 1" Mesh Fabric, Add	536.92	
For 1-1/4" Mesh Fabric, Add	345.60	
For 1-3/4" Mesh Fabric, Add	214.77	
For 2-1/8" Mesh Fabric, Deduct	-107.38	
For Gate With Single Barb Wire Arm, Add	135.77	
For Gate With Double Barb Wire Arm, Add	197.49	
32 31 13 13-0425 EA 30' Wide x 4' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,736.77	137.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-247.96	
For 1" Mesh Fabric, Add	575.27	
For 1-1/4" Mesh Fabric, Add	370.29	
For 1-3/4" Mesh Fabric, Add	230.11	
For 2-1/8" Mesh Fabric, Deduct	-115.05	
For Gate With Single Barb Wire Arm, Add	145.47	
For Gate With Double Barb Wire Arm, Add	211.60	
<b>32 31 13 13-0426 5' Fence Height (32 31 13 13-0405)</b>		
32 31 13 13-0427 EA 3' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	214.63	25.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-25.61	
For 1" Mesh Fabric, Add	59.40	
For 1-1/4" Mesh Fabric, Add	38.24	
For 1-3/4" Mesh Fabric, Add	23.76	
For 2-1/8" Mesh Fabric, Deduct	-11.88	
For Gate With Single Barb Wire Arm, Add	15.02	
For Gate With Double Barb Wire Arm, Add	21.85	



	<b>Exterior Improvements</b>	<b>32</b>
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0428 EA 4' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	260.15	25.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.14	
For 1" Mesh Fabric, Add	79.20	
For 1-1/4" Mesh Fabric, Add	50.98	
For 1-3/4" Mesh Fabric, Add	31.68	
For 2-1/8" Mesh Fabric, Deduct	-15.84	
For Gate With Single Barb Wire Arm, Add	20.03	
For Gate With Double Barb Wire Arm, Add	29.13	
32 31 13 13-0429 EA 5' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	299.18	27.61
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.54	
For 1" Mesh Fabric, Add	94.06	
For 1-1/4" Mesh Fabric, Add	60.54	
For 1-3/4" Mesh Fabric, Add	37.62	
For 2-1/8" Mesh Fabric, Deduct	-18.81	
For Gate With Single Barb Wire Arm, Add	23.79	
For Gate With Double Barb Wire Arm, Add	34.60	
32 31 13 13-0430 EA 6' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	349.90	33.18
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.94	
For 1" Mesh Fabric, Add	108.91	
For 1-1/4" Mesh Fabric, Add	70.10	
For 1-3/4" Mesh Fabric, Add	43.56	
For 2-1/8" Mesh Fabric, Deduct	-21.78	
For Gate With Single Barb Wire Arm, Add	27.54	
For Gate With Double Barb Wire Arm, Add	40.06	
32 31 13 13-0431 EA 7' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	400.64	38.65
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.35	
For 1" Mesh Fabric, Add	123.76	
For 1-1/4" Mesh Fabric, Add	79.66	
For 1-3/4" Mesh Fabric, Add	49.50	
For 2-1/8" Mesh Fabric, Deduct	-24.75	
For Gate With Single Barb Wire Arm, Add	31.30	
For Gate With Double Barb Wire Arm, Add	45.52	
32 31 13 13-0432 EA 8' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	452.33	44.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.75	
For 1" Mesh Fabric, Add	138.61	
For 1-1/4" Mesh Fabric, Add	89.22	
For 1-3/4" Mesh Fabric, Add	55.44	
For 2-1/8" Mesh Fabric, Deduct	-27.72	
For Gate With Single Barb Wire Arm, Add	35.05	
For Gate With Double Barb Wire Arm, Add	50.98	
32 31 13 13-0433 EA 9' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	503.07	50.06
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-66.15	
For 1" Mesh Fabric, Add	153.46	
For 1-1/4" Mesh Fabric, Add	98.78	
For 1-3/4" Mesh Fabric, Add	61.39	
For 2-1/8" Mesh Fabric, Deduct	-30.69	
For Gate With Single Barb Wire Arm, Add	38.81	
For Gate With Double Barb Wire Arm, Add	56.45	
32 31 13 13-0434 EA 10' Wide x 5' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	553.79	55.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-72.55	
For 1" Mesh Fabric, Add	168.31	
For 1-1/4" Mesh Fabric, Add	108.34	
For 1-3/4" Mesh Fabric, Add	67.32	
For 2-1/8" Mesh Fabric, Deduct	-33.66	
For Gate With Single Barb Wire Arm, Add	42.56	
For Gate With Double Barb Wire Arm, Add	61.91	
32 31 13 13-0435 EA 10' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	713.53	55.72
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-102.42	
For 1" Mesh Fabric, Add	237.61	
For 1-1/4" Mesh Fabric, Add	152.95	
For 1-3/4" Mesh Fabric, Add	95.05	
For 2-1/8" Mesh Fabric, Deduct	-47.52	
For Gate With Single Barb Wire Arm, Add	60.09	
For Gate With Double Barb Wire Arm, Add	87.40	
32 31 13 13-0436 EA 12' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	835.65	60.02
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-122.90	
For 1" Mesh Fabric, Add	285.14	
For 1-1/4" Mesh Fabric, Add	183.54	
For 1-3/4" Mesh Fabric, Add	114.06	
For 2-1/8" Mesh Fabric, Deduct	-57.03	
For Gate With Single Barb Wire Arm, Add	72.10	
For Gate With Double Barb Wire Arm, Add	104.88	
32 31 13 13-0437 EA 14' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	959.91	65.00
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-143.39	
For 1" Mesh Fabric, Add	332.66	
For 1-1/4" Mesh Fabric, Add	214.12	
For 1-3/4" Mesh Fabric, Add	133.06	
For 2-1/8" Mesh Fabric, Deduct	-66.53	
For Gate With Single Barb Wire Arm, Add	84.12	
For Gate With Double Barb Wire Arm, Add	122.36	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0438 EA 16' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,122.57	82.73
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-163.87	
For 1" Mesh Fabric, Add	380.18	
For 1-1/4" Mesh Fabric, Add	244.71	
For 1-3/4" Mesh Fabric, Add	152.07	
For 2-1/8" Mesh Fabric, Deduct	-76.04	
For Gate With Single Barb Wire Arm, Add	96.14	
For Gate With Double Barb Wire Arm, Add	139.84	
32 31 13 13-0439 EA 18 Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,249.58	88.67
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-184.36	
For 1" Mesh Fabric, Add	427.71	
For 1-1/4" Mesh Fabric, Add	275.30	
For 1-3/4" Mesh Fabric, Add	171.08	
For 2-1/8" Mesh Fabric, Deduct	-85.54	
For Gate With Single Barb Wire Arm, Add	108.16	
For Gate With Double Barb Wire Arm, Add	157.32	
32 31 13 13-0440 EA 20' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,379.31	95.55
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-204.84	
For 1" Mesh Fabric, Add	475.23	
For 1-1/4" Mesh Fabric, Add	305.89	
For 1-3/4" Mesh Fabric, Add	190.09	
For 2-1/8" Mesh Fabric, Deduct	-95.05	
For Gate With Single Barb Wire Arm, Add	120.17	
For Gate With Double Barb Wire Arm, Add	174.80	
32 31 13 13-0441 EA 22' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,512.45	103.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-225.32	
For 1" Mesh Fabric, Add	522.75	
For 1-1/4" Mesh Fabric, Add	336.48	
For 1-3/4" Mesh Fabric, Add	209.10	
For 2-1/8" Mesh Fabric, Deduct	-104.55	
For Gate With Single Barb Wire Arm, Add	132.19	
For Gate With Double Barb Wire Arm, Add	192.28	
32 31 13 13-0442 EA 24' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,649.95	112.91
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-245.81	
For 1" Mesh Fabric, Add	570.27	
For 1-1/4" Mesh Fabric, Add	367.07	
For 1-3/4" Mesh Fabric, Add	228.11	
For 2-1/8" Mesh Fabric, Deduct	-114.05	
For Gate With Single Barb Wire Arm, Add	144.21	
For Gate With Double Barb Wire Arm, Add	209.76	
32 31 13 13-0443 EA 26' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,793.10	124.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-266.29	
For 1" Mesh Fabric, Add	617.80	
For 1-1/4" Mesh Fabric, Add	397.66	
For 1-3/4" Mesh Fabric, Add	247.12	
For 2-1/8" Mesh Fabric, Deduct	-123.56	
For Gate With Single Barb Wire Arm, Add	156.22	
For Gate With Double Barb Wire Arm, Add	227.24	
32 31 13 13-0444 EA 28' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,943.77	137.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-286.78	
For 1" Mesh Fabric, Add	665.32	
For 1-1/4" Mesh Fabric, Add	428.25	
For 1-3/4" Mesh Fabric, Add	266.13	
For 2-1/8" Mesh Fabric, Deduct	-133.06	
For Gate With Single Barb Wire Arm, Add	168.24	
For Gate With Double Barb Wire Arm, Add	244.72	
32 31 13 13-0445 EA 30' Wide x 5' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,104.82	155.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-307.26	
For 1" Mesh Fabric, Add	712.84	
For 1-1/4" Mesh Fabric, Add	458.84	
For 1-3/4" Mesh Fabric, Add	285.14	
For 2-1/8" Mesh Fabric, Deduct	-142.57	
For Gate With Single Barb Wire Arm, Add	180.26	
For Gate With Double Barb Wire Arm, Add	262.20	
<b>32 31 13 13-0446 6' Fence Height (32 31 13 13-0405)</b>		
32 31 13 13-0447 EA 3' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	229.59	27.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-27.36	
For 1" Mesh Fabric, Add	63.48	
For 1-1/4" Mesh Fabric, Add	40.86	
For 1-3/4" Mesh Fabric, Add	25.39	
For 2-1/8" Mesh Fabric, Deduct	-12.70	
For Gate With Single Barb Wire Arm, Add	16.05	
For Gate With Double Barb Wire Arm, Add	23.35	
32 31 13 13-0448 EA 4' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	278.24	27.81
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-36.49	
For 1" Mesh Fabric, Add	84.65	
For 1-1/4" Mesh Fabric, Add	54.49	
For 1-3/4" Mesh Fabric, Add	33.86	
For 2-1/8" Mesh Fabric, Deduct	-16.93	
For Gate With Single Barb Wire Arm, Add	21.40	
For Gate With Double Barb Wire Arm, Add	31.13	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0449 EA 5' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	319.88	29.57
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-43.33	
For 1" Mesh Fabric, Add	100.52	
For 1-1/4" Mesh Fabric, Add	64.70	
For 1-3/4" Mesh Fabric, Add	40.21	
For 2-1/8" Mesh Fabric, Deduct	-20.10	
For Gate With Single Barb Wire Arm, Add	25.42	
For Gate With Double Barb Wire Arm, Add	36.97	
32 31 13 13-0450 EA 6' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	374.91	35.72
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-50.17	
For 1" Mesh Fabric, Add	116.39	
For 1-1/4" Mesh Fabric, Add	74.92	
For 1-3/4" Mesh Fabric, Add	46.56	
For 2-1/8" Mesh Fabric, Deduct	-23.28	
For Gate With Single Barb Wire Arm, Add	29.43	
For Gate With Double Barb Wire Arm, Add	42.81	
32 31 13 13-0451 EA 7' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	429.94	41.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-57.01	
For 1" Mesh Fabric, Add	132.26	
For 1-1/4" Mesh Fabric, Add	85.13	
For 1-3/4" Mesh Fabric, Add	52.90	
For 2-1/8" Mesh Fabric, Deduct	-26.45	
For Gate With Single Barb Wire Arm, Add	33.45	
For Gate With Double Barb Wire Arm, Add	48.65	
32 31 13 13-0452 EA 8' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	483.98	47.82
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-63.85	
For 1" Mesh Fabric, Add	148.13	
For 1-1/4" Mesh Fabric, Add	95.35	
For 1-3/4" Mesh Fabric, Add	59.25	
For 2-1/8" Mesh Fabric, Deduct	-29.63	
For Gate With Single Barb Wire Arm, Add	37.46	
For Gate With Double Barb Wire Arm, Add	54.49	
32 31 13 13-0453 EA 9' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	539.02	53.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-70.69	
For 1" Mesh Fabric, Add	164.00	
For 1-1/4" Mesh Fabric, Add	105.57	
For 1-3/4" Mesh Fabric, Add	65.60	
For 2-1/8" Mesh Fabric, Deduct	-32.80	
For Gate With Single Barb Wire Arm, Add	41.47	
For Gate With Double Barb Wire Arm, Add	60.32	
32 31 13 13-0454 EA 10' Wide x 6' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	594.05	60.11
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.53	
For 1" Mesh Fabric, Add	179.88	
For 1-1/4" Mesh Fabric, Add	115.78	
For 1-3/4" Mesh Fabric, Add	71.95	
For 2-1/8" Mesh Fabric, Deduct	-35.98	
For Gate With Single Barb Wire Arm, Add	45.49	
For Gate With Double Barb Wire Arm, Add	66.16	
32 31 13 13-0455 EA 10' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	763.93	60.02
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-109.46	
For 1" Mesh Fabric, Add	253.94	
For 1-1/4" Mesh Fabric, Add	163.46	
For 1-3/4" Mesh Fabric, Add	101.58	
For 2-1/8" Mesh Fabric, Deduct	-50.79	
For Gate With Single Barb Wire Arm, Add	64.21	
For Gate With Double Barb Wire Arm, Add	93.40	
32 31 13 13-0456 EA 12' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	895.71	65.00
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-131.35	
For 1" Mesh Fabric, Add	304.73	
For 1-1/4" Mesh Fabric, Add	196.15	
For 1-3/4" Mesh Fabric, Add	121.89	
For 2-1/8" Mesh Fabric, Deduct	-60.95	
For Gate With Single Barb Wire Arm, Add	77.06	
For Gate With Double Barb Wire Arm, Add	112.08	
32 31 13 13-0457 EA 14' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,083.63	88.67
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-153.24	
For 1" Mesh Fabric, Add	355.52	
For 1-1/4" Mesh Fabric, Add	228.84	
For 1-3/4" Mesh Fabric, Add	142.21	
For 2-1/8" Mesh Fabric, Deduct	-71.10	
For Gate With Single Barb Wire Arm, Add	89.90	
For Gate With Double Barb Wire Arm, Add	130.76	
32 31 13 13-0458 EA 16' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,220.87	95.55
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-175.13	
For 1" Mesh Fabric, Add	406.31	
For 1-1/4" Mesh Fabric, Add	261.53	
For 1-3/4" Mesh Fabric, Add	162.52	
For 2-1/8" Mesh Fabric, Deduct	-81.26	
For Gate With Single Barb Wire Arm, Add	102.74	
For Gate With Double Barb Wire Arm, Add	149.45	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0459 EA 18' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,361.52	103.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-197.02	
For 1" Mesh Fabric, Add	457.09	
For 1-1/4" Mesh Fabric, Add	294.22	
For 1-3/4" Mesh Fabric, Add	182.84	
For 2-1/8" Mesh Fabric, Deduct	-91.42	
For Gate With Single Barb Wire Arm, Add	115.59	
For Gate With Double Barb Wire Arm, Add	168.13	
32 31 13 13-0460 EA 20' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,528.10	112.91
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-222.96	
For 1" Mesh Fabric, Add	517.27	
For 1-1/4" Mesh Fabric, Add	332.95	
For 1-3/4" Mesh Fabric, Add	206.91	
For 2-1/8" Mesh Fabric, Deduct	-103.45	
For Gate With Single Barb Wire Arm, Add	130.80	
For Gate With Double Barb Wire Arm, Add	190.26	
32 31 13 13-0461 EA 22' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,661.10	124.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-241.54	
For 1" Mesh Fabric, Add	560.38	
For 1-1/4" Mesh Fabric, Add	360.70	
For 1-3/4" Mesh Fabric, Add	224.15	
For 2-1/8" Mesh Fabric, Deduct	-112.08	
For Gate With Single Barb Wire Arm, Add	141.70	
For Gate With Double Barb Wire Arm, Add	206.12	
32 31 13 13-0462 EA 24' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,815.36	137.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-262.70	
For 1" Mesh Fabric, Add	609.46	
For 1-1/4" Mesh Fabric, Add	392.30	
For 1-3/4" Mesh Fabric, Add	243.78	
For 2-1/8" Mesh Fabric, Deduct	-121.89	
For Gate With Single Barb Wire Arm, Add	154.12	
For Gate With Double Barb Wire Arm, Add	224.17	
32 31 13 13-0463 EA 26' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,983.91	155.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-284.59	
For 1" Mesh Fabric, Add	660.25	
For 1-1/4" Mesh Fabric, Add	424.99	
For 1-3/4" Mesh Fabric, Add	264.10	
For 2-1/8" Mesh Fabric, Deduct	-132.05	
For Gate With Single Barb Wire Arm, Add	166.96	
For Gate With Double Barb Wire Arm, Add	242.85	
32 31 13 13-0464 EA 28' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,167.25	177.35
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-306.48	
For 1" Mesh Fabric, Add	711.04	
For 1-1/4" Mesh Fabric, Add	457.68	
For 1-3/4" Mesh Fabric, Add	284.42	
For 2-1/8" Mesh Fabric, Deduct	-142.21	
For Gate With Single Barb Wire Arm, Add	179.80	
For Gate With Double Barb Wire Arm, Add	261.53	
32 31 13 13-0465 EA 30' Wide x 6' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,372.79	206.94
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-328.37	
For 1" Mesh Fabric, Add	761.82	
For 1-1/4" Mesh Fabric, Add	490.37	
For 1-3/4" Mesh Fabric, Add	304.73	
For 2-1/8" Mesh Fabric, Deduct	-152.36	
For Gate With Single Barb Wire Arm, Add	192.65	
For Gate With Double Barb Wire Arm, Add	280.21	
<b>32 31 13 13-0466 7' Fence Height</b> <small>(32 31 13 13-0405)</small>		
32 31 13 13-0467 EA 3' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	243.37	29.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-28.74	
For 1" Mesh Fabric, Add	66.68	
For 1-1/4" Mesh Fabric, Add	42.92	
For 1-3/4" Mesh Fabric, Add	26.67	
For 2-1/8" Mesh Fabric, Deduct	-13.34	
For Gate With Single Barb Wire Arm, Add	16.86	
For Gate With Double Barb Wire Arm, Add	24.53	
32 31 13 13-0468 EA 4' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	294.47	29.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-38.32	
For 1" Mesh Fabric, Add	88.91	
For 1-1/4" Mesh Fabric, Add	57.23	
For 1-3/4" Mesh Fabric, Add	35.56	
For 2-1/8" Mesh Fabric, Deduct	-17.78	
For Gate With Single Barb Wire Arm, Add	22.48	
For Gate With Double Barb Wire Arm, Add	32.70	
32 31 13 13-0469 EA 5' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm .....	337.38	31.53
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-45.51	
For 1" Mesh Fabric, Add	105.58	
For 1-1/4" Mesh Fabric, Add	67.96	
For 1-3/4" Mesh Fabric, Add	42.23	
For 2-1/8" Mesh Fabric, Deduct	-21.12	
For Gate With Single Barb Wire Arm, Add	26.70	
For Gate With Double Barb Wire Arm, Add	38.84	



	<b>Exterior Improvements</b>	<b>32</b>
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0470	EA 6' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	396.19	38.35
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-52.70	
		For 1" Mesh Fabric, Add	122.25	
		For 1-1/4" Mesh Fabric, Add	78.69	
		For 1-3/4" Mesh Fabric, Add	48.90	
		For 2-1/8" Mesh Fabric, Deduct	-24.45	
		For Gate With Single Barb Wire Arm, Add	30.91	
		For Gate With Double Barb Wire Arm, Add	44.97	
32 31 13	13-0471	EA 7' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	454.03	44.89
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-59.88	
		For 1" Mesh Fabric, Add	138.93	
		For 1-1/4" Mesh Fabric, Add	89.42	
		For 1-3/4" Mesh Fabric, Add	55.57	
		For 2-1/8" Mesh Fabric, Deduct	-27.79	
		For Gate With Single Barb Wire Arm, Add	35.13	
		For Gate With Double Barb Wire Arm, Add	51.10	
32 31 13	13-0472	EA 8' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	512.86	51.62
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-67.07	
		For 1" Mesh Fabric, Add	155.60	
		For 1-1/4" Mesh Fabric, Add	100.16	
		For 1-3/4" Mesh Fabric, Add	62.24	
		For 2-1/8" Mesh Fabric, Deduct	-31.12	
		For Gate With Single Barb Wire Arm, Add	39.35	
		For Gate With Double Barb Wire Arm, Add	57.23	
32 31 13	13-0473	EA 9' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	570.70	58.16
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-74.25	
		For 1" Mesh Fabric, Add	172.27	
		For 1-1/4" Mesh Fabric, Add	110.89	
		For 1-3/4" Mesh Fabric, Add	68.91	
		For 2-1/8" Mesh Fabric, Deduct	-34.45	
		For Gate With Single Barb Wire Arm, Add	43.56	
		For Gate With Double Barb Wire Arm, Add	63.36	
32 31 13	13-0474	EA 10' Wide x 7' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	629.53	65.00
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-81.44	
		For 1" Mesh Fabric, Add	188.94	
		For 1-1/4" Mesh Fabric, Add	121.62	
		For 1-3/4" Mesh Fabric, Add	75.58	
		For 2-1/8" Mesh Fabric, Deduct	-37.79	
		For Gate With Single Barb Wire Arm, Add	47.78	
		For Gate With Double Barb Wire Arm, Add	69.50	
32 31 13	13-0475	EA 10' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	808.36	65.00
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-114.97	
		For 1" Mesh Fabric, Add	266.73	
		For 1-1/4" Mesh Fabric, Add	171.69	
		For 1-3/4" Mesh Fabric, Add	106.69	
		For 2-1/8" Mesh Fabric, Deduct	-53.35	
		For Gate With Single Barb Wire Arm, Add	67.45	
		For Gate With Double Barb Wire Arm, Add	98.11	
32 31 13	13-0476	EA 12' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,002.15	88.67
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-137.96	
		For 1" Mesh Fabric, Add	320.07	
		For 1-1/4" Mesh Fabric, Add	206.02	
		For 1-3/4" Mesh Fabric, Add	128.03	
		For 2-1/8" Mesh Fabric, Deduct	-64.01	
		For Gate With Single Barb Wire Arm, Add	80.94	
		For Gate With Double Barb Wire Arm, Add	117.73	
32 31 13	13-0477	EA 14' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,145.28	95.55
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-160.96	
		For 1" Mesh Fabric, Add	373.43	
		For 1-1/4" Mesh Fabric, Add	240.37	
		For 1-3/4" Mesh Fabric, Add	149.37	
		For 2-1/8" Mesh Fabric, Deduct	-74.69	
		For Gate With Single Barb Wire Arm, Add	94.43	
		For Gate With Double Barb Wire Arm, Add	137.35	
32 31 13	13-0478	EA 16' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,291.80	103.47
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-183.95	
		For 1" Mesh Fabric, Add	426.77	
		For 1-1/4" Mesh Fabric, Add	274.70	
		For 1-3/4" Mesh Fabric, Add	170.71	
		For 2-1/8" Mesh Fabric, Deduct	-85.35	
		For Gate With Single Barb Wire Arm, Add	107.92	
		For Gate With Double Barb Wire Arm, Add	156.97	
32 31 13	13-0479	EA 18' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,442.70	112.91
		For 1-5/8" Schedule 40 Pipe Frame, Deduct	-206.95	
		For 1" Mesh Fabric, Add	480.12	
		For 1-1/4" Mesh Fabric, Add	309.04	
		For 1-3/4" Mesh Fabric, Add	192.05	
		For 2-1/8" Mesh Fabric, Deduct	-96.02	
		For Gate With Single Barb Wire Arm, Add	121.41	
		For Gate With Double Barb Wire Arm, Add	176.60	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0480 EA 20' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,599.22	124.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-229.94	
For 1" Mesh Fabric, Add	533.46	
For 1-1/4" Mesh Fabric, Add	343.38	
For 1-3/4" Mesh Fabric, Add	213.38	
For 2-1/8" Mesh Fabric, Deduct	-106.69	
For Gate With Single Barb Wire Arm, Add	134.90	
For Gate With Double Barb Wire Arm, Add	196.21	
32 31 13 13-0481 EA 22' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,763.25	137.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-252.93	
For 1" Mesh Fabric, Add	586.79	
For 1-1/4" Mesh Fabric, Add	377.71	
For 1-3/4" Mesh Fabric, Add	234.72	
For 2-1/8" Mesh Fabric, Deduct	-117.36	
For Gate With Single Barb Wire Arm, Add	148.38	
For Gate With Double Barb Wire Arm, Add	215.83	
32 31 13 13-0482 EA 24' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,937.70	155.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-275.93	
For 1" Mesh Fabric, Add	640.15	
For 1-1/4" Mesh Fabric, Add	412.05	
For 1-3/4" Mesh Fabric, Add	256.06	
For 2-1/8" Mesh Fabric, Deduct	-128.03	
For Gate With Single Barb Wire Arm, Add	161.88	
For Gate With Double Barb Wire Arm, Add	235.46	
32 31 13 13-0483 EA 26' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,126.93	177.35
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-298.92	
For 1" Mesh Fabric, Add	693.50	
For 1-1/4" Mesh Fabric, Add	446.39	
For 1-3/4" Mesh Fabric, Add	277.40	
For 2-1/8" Mesh Fabric, Deduct	-138.70	
For Gate With Single Barb Wire Arm, Add	175.37	
For Gate With Double Barb Wire Arm, Add	255.08	
32 31 13 13-0484 EA 28' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,338.34	206.94
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-321.91	
For 1" Mesh Fabric, Add	746.84	
For 1-1/4" Mesh Fabric, Add	480.72	
For 1-3/4" Mesh Fabric, Add	298.74	
For 2-1/8" Mesh Fabric, Deduct	-149.37	
For Gate With Single Barb Wire Arm, Add	188.86	
For Gate With Double Barb Wire Arm, Add	274.70	
32 31 13 13-0485 EA 30' Wide x 7' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,585.28	248.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-344.91	
For 1" Mesh Fabric, Add	800.19	
For 1-1/4" Mesh Fabric, Add	515.07	
For 1-3/4" Mesh Fabric, Add	320.08	
For 2-1/8" Mesh Fabric, Deduct	-160.04	
For Gate With Single Barb Wire Arm, Add	202.35	
For Gate With Double Barb Wire Arm, Add	294.32	
<b>32 31 13 13-0486 8' Fence Height</b> <small>(32 31 13 13-0405)</small>		
32 31 13 13-0487 EA 3' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	283.39	32.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-34.84	
For 1" Mesh Fabric, Add	80.82	
For 1-1/4" Mesh Fabric, Add	52.02	
For 1-3/4" Mesh Fabric, Add	32.33	
For 2-1/8" Mesh Fabric, Deduct	-16.16	
For Gate With Single Barb Wire Arm, Add	20.44	
For Gate With Double Barb Wire Arm, Add	29.73	
32 31 13 13-0488 EA 4' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	345.32	32.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-46.45	
For 1" Mesh Fabric, Add	107.76	
For 1-1/4" Mesh Fabric, Add	69.36	
For 1-3/4" Mesh Fabric, Add	43.11	
For 2-1/8" Mesh Fabric, Deduct	-21.55	
For Gate With Single Barb Wire Arm, Add	27.25	
For Gate With Double Barb Wire Arm, Add	39.64	
32 31 13 13-0489 EA 5' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	386.61	32.50
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-54.19	
For 1" Mesh Fabric, Add	125.72	
For 1-1/4" Mesh Fabric, Add	80.93	
For 1-3/4" Mesh Fabric, Add	50.29	
For 2-1/8" Mesh Fabric, Deduct	-25.14	
For Gate With Single Barb Wire Arm, Add	31.79	
For Gate With Double Barb Wire Arm, Add	46.24	
32 31 13 13-0490 EA 6' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	453.27	40.99
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-61.93	
For 1" Mesh Fabric, Add	143.68	
For 1-1/4" Mesh Fabric, Add	92.49	
For 1-3/4" Mesh Fabric, Add	57.47	
For 2-1/8" Mesh Fabric, Deduct	-28.74	
For Gate With Single Barb Wire Arm, Add	36.33	
For Gate With Double Barb Wire Arm, Add	52.85	





	<b>Exterior Improvements</b>	<b>32</b>
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0491 EA 7' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	519.93	49.37
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-69.68	
For 1" Mesh Fabric, Add	161.65	
For 1-1/4" Mesh Fabric, Add	104.05	
For 1-3/4" Mesh Fabric, Add	64.66	
For 2-1/8" Mesh Fabric, Deduct	-32.33	
For Gate With Single Barb Wire Arm, Add	40.88	
For Gate With Double Barb Wire Arm, Add	59.46	
32 31 13 13-0492 EA 8' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	585.62	57.48
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-77.42	
For 1" Mesh Fabric, Add	179.61	
For 1-1/4" Mesh Fabric, Add	115.61	
For 1-3/4" Mesh Fabric, Add	71.84	
For 2-1/8" Mesh Fabric, Deduct	-35.92	
For Gate With Single Barb Wire Arm, Add	45.42	
For Gate With Double Barb Wire Arm, Add	66.06	
32 31 13 13-0493 EA 9' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	652.29	65.97
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-85.16	
For 1" Mesh Fabric, Add	197.57	
For 1-1/4" Mesh Fabric, Add	127.17	
For 1-3/4" Mesh Fabric, Add	79.03	
For 2-1/8" Mesh Fabric, Deduct	-39.51	
For Gate With Single Barb Wire Arm, Add	49.96	
For Gate With Double Barb Wire Arm, Add	72.67	
32 31 13 13-0494 EA 10' Wide x 8' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	718.93	74.46
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-92.90	
For 1" Mesh Fabric, Add	215.53	
For 1-1/4" Mesh Fabric, Add	138.73	
For 1-3/4" Mesh Fabric, Add	86.21	
For 2-1/8" Mesh Fabric, Deduct	-43.11	
For Gate With Single Barb Wire Arm, Add	54.50	
For Gate With Double Barb Wire Arm, Add	79.28	
32 31 13 13-0495 EA 10' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,009.54	88.67
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.35	
For 1" Mesh Fabric, Add	323.29	
For 1-1/4" Mesh Fabric, Add	208.09	
For 1-3/4" Mesh Fabric, Add	129.32	
For 2-1/8" Mesh Fabric, Deduct	-64.66	
For Gate With Single Barb Wire Arm, Add	81.75	
For Gate With Double Barb Wire Arm, Add	118.91	
32 31 13 13-0496 EA 12' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,178.66	95.55
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-167.22	
For 1" Mesh Fabric, Add	387.95	
For 1-1/4" Mesh Fabric, Add	249.71	
For 1-3/4" Mesh Fabric, Add	155.18	
For 2-1/8" Mesh Fabric, Deduct	-77.59	
For Gate With Single Barb Wire Arm, Add	98.10	
For Gate With Double Barb Wire Arm, Add	142.69	
32 31 13 13-0497 EA 14' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,351.20	103.47
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-195.09	
For 1" Mesh Fabric, Add	452.60	
For 1-1/4" Mesh Fabric, Add	291.33	
For 1-3/4" Mesh Fabric, Add	181.04	
For 2-1/8" Mesh Fabric, Deduct	-90.52	
For Gate With Single Barb Wire Arm, Add	114.45	
For Gate With Double Barb Wire Arm, Add	166.48	
32 31 13 13-0498 EA 16' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,528.09	112.91
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-222.96	
For 1" Mesh Fabric, Add	517.26	
For 1-1/4" Mesh Fabric, Add	332.95	
For 1-3/4" Mesh Fabric, Add	206.91	
For 2-1/8" Mesh Fabric, Deduct	-103.45	
For Gate With Single Barb Wire Arm, Add	130.80	
For Gate With Double Barb Wire Arm, Add	190.26	
32 31 13 13-0499 EA 18' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,710.63	124.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-250.83	
For 1" Mesh Fabric, Add	581.92	
For 1-1/4" Mesh Fabric, Add	374.57	
For 1-3/4" Mesh Fabric, Add	232.77	
For 2-1/8" Mesh Fabric, Deduct	-116.38	
For Gate With Single Barb Wire Arm, Add	147.15	
For Gate With Double Barb Wire Arm, Add	214.04	
32 31 13 13-0500 EA 20' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	1,900.69	137.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-278.70	
For 1" Mesh Fabric, Add	646.58	
For 1-1/4" Mesh Fabric, Add	416.19	
For 1-3/4" Mesh Fabric, Add	258.63	
For 2-1/8" Mesh Fabric, Deduct	-129.32	
For Gate With Single Barb Wire Arm, Add	163.50	
For Gate With Double Barb Wire Arm, Add	237.82	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0501 EA 22' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,101.12	155.21
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-306.57	
For 1" Mesh Fabric, Add	711.23	
For 1-1/4" Mesh Fabric, Add	457.81	
For 1-3/4" Mesh Fabric, Add	284.49	
For 2-1/8" Mesh Fabric, Deduct	-142.25	
For Gate With Single Barb Wire Arm, Add	179.85	
For Gate With Double Barb Wire Arm, Add	261.60	
32 31 13 13-0502 EA 24' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,316.34	177.35
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-334.44	
For 1" Mesh Fabric, Add	775.89	
For 1-1/4" Mesh Fabric, Add	499.42	
For 1-3/4" Mesh Fabric, Add	310.36	
For 2-1/8" Mesh Fabric, Deduct	-155.18	
For Gate With Single Barb Wire Arm, Add	196.20	
For Gate With Double Barb Wire Arm, Add	285.39	
32 31 13 13-0503 EA 26' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,553.77	206.94
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-362.31	
For 1" Mesh Fabric, Add	840.55	
For 1-1/4" Mesh Fabric, Add	541.04	
For 1-3/4" Mesh Fabric, Add	336.22	
For 2-1/8" Mesh Fabric, Deduct	-168.11	
For Gate With Single Barb Wire Arm, Add	212.55	
For Gate With Double Barb Wire Arm, Add	309.17	
32 31 13 13-0504 EA 28' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	2,826.70	248.32
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-390.18	
For 1" Mesh Fabric, Add	905.21	
For 1-1/4" Mesh Fabric, Add	582.66	
For 1-3/4" Mesh Fabric, Add	362.08	
For 2-1/8" Mesh Fabric, Deduct	-181.04	
For Gate With Single Barb Wire Arm, Add	228.90	
For Gate With Double Barb Wire Arm, Add	332.95	
32 31 13 13-0505 EA 30' Wide x 8' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	3,161.77	310.42
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-418.05	
For 1" Mesh Fabric, Add	969.87	
For 1-1/4" Mesh Fabric, Add	624.28	
For 1-3/4" Mesh Fabric, Add	387.95	
For 2-1/8" Mesh Fabric, Deduct	-193.97	
For Gate With Single Barb Wire Arm, Add	245.25	
For Gate With Double Barb Wire Arm, Add	356.73	
<b>32 31 13 13-0506 10' Fence Height (32 31 13 13-0405)</b>		
32 31 13 13-0507 EA 3' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	323.96	36.11
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-40.41	
For 1" Mesh Fabric, Add	93.76	
For 1-1/4" Mesh Fabric, Add	60.35	
For 1-3/4" Mesh Fabric, Add	37.50	
For 2-1/8" Mesh Fabric, Deduct	-18.75	
For Gate With Single Barb Wire Arm, Add	23.71	
For Gate With Double Barb Wire Arm, Add	34.48	
32 31 13 13-0508 EA 4' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	395.81	36.11
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-53.88	
For 1" Mesh Fabric, Add	125.01	
For 1-1/4" Mesh Fabric, Add	80.47	
For 1-3/4" Mesh Fabric, Add	50.00	
For 2-1/8" Mesh Fabric, Deduct	-25.00	
For Gate With Single Barb Wire Arm, Add	31.61	
For Gate With Double Barb Wire Arm, Add	45.98	
32 31 13 13-0509 EA 5' Wide x 10' High Gate Single Vinyl Coated Without Barbed Wire Arm.....	448.48	37.67
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-62.87	
For 1" Mesh Fabric, Add	145.85	
For 1-1/4" Mesh Fabric, Add	93.88	
For 1-3/4" Mesh Fabric, Add	58.34	
For 2-1/8" Mesh Fabric, Deduct	-29.17	
For Gate With Single Barb Wire Arm, Add	36.88	
For Gate With Double Barb Wire Arm, Add	53.64	
32 31 13 13-0510 EA 6' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	523.70	46.84
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-71.85	
For 1" Mesh Fabric, Add	166.68	
For 1-1/4" Mesh Fabric, Add	107.29	
For 1-3/4" Mesh Fabric, Add	66.67	
For 2-1/8" Mesh Fabric, Deduct	-33.34	
For Gate With Single Barb Wire Arm, Add	42.15	
For Gate With Double Barb Wire Arm, Add	61.31	
32 31 13 13-0511 EA 7' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	597.94	55.52
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-80.83	
For 1" Mesh Fabric, Add	187.52	
For 1-1/4" Mesh Fabric, Add	120.70	
For 1-3/4" Mesh Fabric, Add	75.01	
For 2-1/8" Mesh Fabric, Deduct	-37.50	
For Gate With Single Barb Wire Arm, Add	47.42	
For Gate With Double Barb Wire Arm, Add	68.97	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0512 EA 8' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	673.18	64.70
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-89.81	
For 1" Mesh Fabric, Add	208.36	
For 1-1/4" Mesh Fabric, Add	134.11	
For 1-3/4" Mesh Fabric, Add	83.34	
For 2-1/8" Mesh Fabric, Deduct	-41.67	
For Gate With Single Barb Wire Arm, Add	52.69	
For Gate With Double Barb Wire Arm, Add	76.64	
32 31 13 13-0513 EA 9' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	747.41	73.49
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-98.79	
For 1" Mesh Fabric, Add	229.19	
For 1-1/4" Mesh Fabric, Add	147.53	
For 1-3/4" Mesh Fabric, Add	91.68	
For 2-1/8" Mesh Fabric, Deduct	-45.84	
For Gate With Single Barb Wire Arm, Add	57.96	
For Gate With Double Barb Wire Arm, Add	84.30	
32 31 13 13-0514 EA 10' Wide x 10' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	822.65	82.56
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-107.77	
For 1" Mesh Fabric, Add	250.02	
For 1-1/4" Mesh Fabric, Add	160.94	
For 1-3/4" Mesh Fabric, Add	100.01	
For 2-1/8" Mesh Fabric, Deduct	-50.00	
For Gate With Single Barb Wire Arm, Add	63.22	
For Gate With Double Barb Wire Arm, Add	91.96	
32 31 13 13-0515 EA 10' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,158.08	98.58
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-161.65	
For 1" Mesh Fabric, Add	375.03	
For 1-1/4" Mesh Fabric, Add	241.40	
For 1-3/4" Mesh Fabric, Add	150.01	
For 2-1/8" Mesh Fabric, Deduct	-75.01	
For Gate With Single Barb Wire Arm, Add	94.84	
For Gate With Double Barb Wire Arm, Add	137.94	
32 31 13 13-0516 EA 12' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,353.16	106.04
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-193.98	
For 1" Mesh Fabric, Add	450.04	
For 1-1/4" Mesh Fabric, Add	289.68	
For 1-3/4" Mesh Fabric, Add	180.02	
For 2-1/8" Mesh Fabric, Deduct	-90.01	
For Gate With Single Barb Wire Arm, Add	113.80	
For Gate With Double Barb Wire Arm, Add	165.53	
32 31 13 13-0517 EA 14' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,552.26	115.01
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.31	
For 1" Mesh Fabric, Add	525.05	
For 1-1/4" Mesh Fabric, Add	337.96	
For 1-3/4" Mesh Fabric, Add	210.02	
For 2-1/8" Mesh Fabric, Deduct	-105.01	
For Gate With Single Barb Wire Arm, Add	132.77	
For Gate With Double Barb Wire Arm, Add	193.12	
32 31 13 13-0518 EA 16' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,755.91	125.38
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-258.64	
For 1" Mesh Fabric, Add	600.05	
For 1-1/4" Mesh Fabric, Add	386.24	
For 1-3/4" Mesh Fabric, Add	240.02	
For 2-1/8" Mesh Fabric, Deduct	-120.01	
For Gate With Single Barb Wire Arm, Add	151.74	
For Gate With Double Barb Wire Arm, Add	220.71	
32 31 13 13-0519 EA 18' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,966.15	137.96
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-290.97	
For 1" Mesh Fabric, Add	675.05	
For 1-1/4" Mesh Fabric, Add	434.52	
For 1-3/4" Mesh Fabric, Add	270.02	
For 2-1/8" Mesh Fabric, Deduct	-135.01	
For Gate With Single Barb Wire Arm, Add	170.70	
For Gate With Double Barb Wire Arm, Add	248.30	
32 31 13 13-0520 EA 20' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,184.39	153.23
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-323.30	
For 1" Mesh Fabric, Add	750.06	
For 1-1/4" Mesh Fabric, Add	482.80	
For 1-3/4" Mesh Fabric, Add	300.02	
For 2-1/8" Mesh Fabric, Deduct	-150.01	
For Gate With Single Barb Wire Arm, Add	189.67	
For Gate With Double Barb Wire Arm, Add	275.88	
32 31 13 13-0521 EA 22' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,414.60	172.45
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-355.63	
For 1" Mesh Fabric, Add	825.07	
For 1-1/4" Mesh Fabric, Add	531.08	
For 1-3/4" Mesh Fabric, Add	330.03	
For 2-1/8" Mesh Fabric, Deduct	-165.01	
For Gate With Single Barb Wire Arm, Add	208.64	
For Gate With Double Barb Wire Arm, Add	303.47	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0522 EA 24 Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,660.63	196.93
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-387.96	
For 1" Mesh Fabric, Add	900.08	
For 1-1/4" Mesh Fabric, Add	579.36	
For 1-3/4" Mesh Fabric, Add	360.03	
For 2-1/8" Mesh Fabric, Deduct	-180.02	
For Gate With Single Barb Wire Arm, Add	227.61	
For Gate With Double Barb Wire Arm, Add	331.06	
32 31 13 13-0523 EA 26' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,932.07	229.90
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-420.29	
For 1" Mesh Fabric, Add	975.08	
For 1-1/4" Mesh Fabric, Add	627.64	
For 1-3/4" Mesh Fabric, Add	390.03	
For 2-1/8" Mesh Fabric, Deduct	-195.02	
For Gate With Single Barb Wire Arm, Add	246.57	
For Gate With Double Barb Wire Arm, Add	358.65	
32 31 13 13-0524 EA 28' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,241.87	275.69
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-452.62	
For 1" Mesh Fabric, Add	1,050.09	
For 1-1/4" Mesh Fabric, Add	675.92	
For 1-3/4" Mesh Fabric, Add	420.03	
For 2-1/8" Mesh Fabric, Deduct	-210.02	
For Gate With Single Barb Wire Arm, Add	265.54	
For Gate With Double Barb Wire Arm, Add	386.24	
32 31 13 13-0525 EA 30' Wide x 10' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,622.19	344.91
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-484.95	
For 1" Mesh Fabric, Add	1,125.09	
For 1-1/4" Mesh Fabric, Add	724.20	
For 1-3/4" Mesh Fabric, Add	450.04	
For 2-1/8" Mesh Fabric, Deduct	-225.02	
For Gate With Single Barb Wire Arm, Add	284.51	
For Gate With Double Barb Wire Arm, Add	413.83	
<b>32 31 13 13-0526 12' Fence Height (32 31 13 13-0405)</b>		
32 31 13 13-0527 EA 3' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	421.06	40.11
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-56.36	
For 1" Mesh Fabric, Add	130.75	
For 1-1/4" Mesh Fabric, Add	84.16	
For 1-3/4" Mesh Fabric, Add	52.30	
For 2-1/8" Mesh Fabric, Deduct	-26.15	
For Gate With Single Barb Wire Arm, Add	33.06	
For Gate With Double Barb Wire Arm, Add	48.09	
32 31 13 13-0528 EA 4' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	520.98	40.11
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-75.09	
For 1" Mesh Fabric, Add	174.22	
For 1-1/4" Mesh Fabric, Add	112.14	
For 1-3/4" Mesh Fabric, Add	69.69	
For 2-1/8" Mesh Fabric, Deduct	-34.84	
For Gate With Single Barb Wire Arm, Add	44.06	
For Gate With Double Barb Wire Arm, Add	64.08	
32 31 13 13-0529 EA 5' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	599.73	41.57
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-89.03	
For 1" Mesh Fabric, Add	206.55	
For 1-1/4" Mesh Fabric, Add	132.95	
For 1-3/4" Mesh Fabric, Add	82.62	
For 2-1/8" Mesh Fabric, Deduct	-41.31	
For Gate With Single Barb Wire Arm, Add	52.23	
For Gate With Double Barb Wire Arm, Add	75.97	
32 31 13 13-0530 EA 6' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	691.92	51.62
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-100.64	
For 1" Mesh Fabric, Add	233.49	
For 1-1/4" Mesh Fabric, Add	150.29	
For 1-3/4" Mesh Fabric, Add	93.40	
For 2-1/8" Mesh Fabric, Deduct	-46.70	
For Gate With Single Barb Wire Arm, Add	59.04	
For Gate With Double Barb Wire Arm, Add	85.88	
32 31 13 13-0531 EA 7' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	790.99	61.78
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-113.54	
For 1" Mesh Fabric, Add	263.42	
For 1-1/4" Mesh Fabric, Add	169.56	
For 1-3/4" Mesh Fabric, Add	105.37	
For 2-1/8" Mesh Fabric, Deduct	-52.68	
For Gate With Single Barb Wire Arm, Add	66.61	
For Gate With Double Barb Wire Arm, Add	96.89	
32 31 13 13-0532 EA 8' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	889.09	71.53
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-126.45	
For 1" Mesh Fabric, Add	293.36	
For 1-1/4" Mesh Fabric, Add	188.83	
For 1-3/4" Mesh Fabric, Add	117.34	
For 2-1/8" Mesh Fabric, Deduct	-58.67	
For Gate With Single Barb Wire Arm, Add	74.18	
For Gate With Double Barb Wire Arm, Add	107.90	



	<b>Exterior Improvements</b>	<b>32</b>
	Site Improvements	32 30
	Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0533 EA 9' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	988.15	81.58
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-139.35	
For 1" Mesh Fabric, Add	323.29	
For 1-1/4" Mesh Fabric, Add	208.10	
For 1-3/4" Mesh Fabric, Add	129.32	
For 2-1/8" Mesh Fabric, Deduct	-64.66	
For Gate With Single Barb Wire Arm, Add	81.75	
For Gate With Double Barb Wire Arm, Add	118.91	
32 31 13 13-0534 EA 10' Wide x 12' High Single Gate Vinyl Coated Without Barbed Wire Arm.....	1,080.34	91.64
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-150.96	
For 1" Mesh Fabric, Add	350.24	
For 1-1/4" Mesh Fabric, Add	225.44	
For 1-3/4" Mesh Fabric, Add	140.09	
For 2-1/8" Mesh Fabric, Deduct	-70.05	
For Gate With Single Barb Wire Arm, Add	88.57	
For Gate With Double Barb Wire Arm, Add	128.82	
32 31 13 13-0535 EA 10' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,535.99	109.54
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-226.37	
For 1" Mesh Fabric, Add	525.17	
For 1-1/4" Mesh Fabric, Add	338.04	
For 1-3/4" Mesh Fabric, Add	210.07	
For 2-1/8" Mesh Fabric, Deduct	-105.03	
For Gate With Single Barb Wire Arm, Add	132.80	
For Gate With Double Barb Wire Arm, Add	193.17	
32 31 13 13-0536 EA 12' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	1,841.96	117.92
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-279.01	
For 1" Mesh Fabric, Add	647.31	
For 1-1/4" Mesh Fabric, Add	416.66	
For 1-3/4" Mesh Fabric, Add	258.92	
For 2-1/8" Mesh Fabric, Deduct	-129.46	
For Gate With Single Barb Wire Arm, Add	163.69	
For Gate With Double Barb Wire Arm, Add	238.09	
32 31 13 13-0537 EA 14' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,121.06	127.71
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-325.77	
For 1" Mesh Fabric, Add	755.79	
For 1-1/4" Mesh Fabric, Add	486.48	
For 1-3/4" Mesh Fabric, Add	302.31	
For 2-1/8" Mesh Fabric, Deduct	-151.16	
For Gate With Single Barb Wire Arm, Add	191.12	
For Gate With Double Barb Wire Arm, Add	277.99	
32 31 13 13-0538 EA 16' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,403.58	139.25
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-372.22	
For 1" Mesh Fabric, Add	863.55	
For 1-1/4" Mesh Fabric, Add	555.85	
For 1-3/4" Mesh Fabric, Add	345.42	
For 2-1/8" Mesh Fabric, Deduct	-172.71	
For Gate With Single Barb Wire Arm, Add	218.37	
For Gate With Double Barb Wire Arm, Add	317.63	
32 31 13 13-0539 EA 18' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,689.95	153.35
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-418.05	
For 1" Mesh Fabric, Add	969.88	
For 1-1/4" Mesh Fabric, Add	624.29	
For 1-3/4" Mesh Fabric, Add	387.95	
For 2-1/8" Mesh Fabric, Deduct	-193.98	
For Gate With Single Barb Wire Arm, Add	245.26	
For Gate With Double Barb Wire Arm, Add	356.74	
32 31 13 13-0540 EA 20' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	2,988.41	170.24
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-464.50	
For 1" Mesh Fabric, Add	1,077.64	
For 1-1/4" Mesh Fabric, Add	693.66	
For 1-3/4" Mesh Fabric, Add	431.06	
For 2-1/8" Mesh Fabric, Deduct	-215.53	
For Gate With Single Barb Wire Arm, Add	272.51	
For Gate With Double Barb Wire Arm, Add	396.37	
32 31 13 13-0541 EA 22' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,300.50	191.57
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-510.95	
For 1" Mesh Fabric, Add	1,185.41	
For 1-1/4" Mesh Fabric, Add	763.02	
For 1-3/4" Mesh Fabric, Add	474.16	
For 2-1/8" Mesh Fabric, Deduct	-237.08	
For Gate With Single Barb Wire Arm, Add	299.76	
For Gate With Double Barb Wire Arm, Add	436.01	
32 31 13 13-0542 EA 24' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm.....	3,630.02	218.83
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-557.40	
For 1" Mesh Fabric, Add	1,293.17	
For 1-1/4" Mesh Fabric, Add	832.39	
For 1-3/4" Mesh Fabric, Add	517.27	
For 2-1/8" Mesh Fabric, Deduct	-258.63	
For Gate With Single Barb Wire Arm, Add	327.01	
For Gate With Double Barb Wire Arm, Add	475.65	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0543 EA 26' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	3,996.03	255.54
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-605.40	
For 1" Mesh Fabric, Add	1,404.53	
For 1-1/4" Mesh Fabric, Add	904.06	
For 1-3/4" Mesh Fabric, Add	561.81	
For 2-1/8" Mesh Fabric, Deduct	-280.91	
For Gate With Single Barb Wire Arm, Add	355.17	
For Gate With Double Barb Wire Arm, Add	516.61	
32 31 13 13-0544 EA 28' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	4,396.40	306.35
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-651.85	
For 1" Mesh Fabric, Add	1,512.29	
For 1-1/4" Mesh Fabric, Add	973.43	
For 1-3/4" Mesh Fabric, Add	604.92	
For 2-1/8" Mesh Fabric, Deduct	-302.46	
For Gate With Single Barb Wire Arm, Add	382.42	
For Gate With Double Barb Wire Arm, Add	556.24	
32 31 13 13-0545 EA 30' Wide x 12' High Double Gate Vinyl Coated Without Barbed Wire Arm .....	4,875.13	383.25
For 1-5/8" Schedule 40 Pipe Frame, Deduct	-698.30	
For 1" Mesh Fabric, Add	1,620.06	
For 1-1/4" Mesh Fabric, Add	1,042.80	
For 1-3/4" Mesh Fabric, Add	648.02	
For 2-1/8" Mesh Fabric, Deduct	-324.01	
For Gate With Single Barb Wire Arm, Add	409.67	
For Gate With Double Barb Wire Arm, Add	595.88	
<b>32 31 13 13-0546 Chain Link Galvanized Steel Sliding Gate</b> <small>(32 31 13 13-0263)</small>		
Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper and lower rails, track brackets, roller gate wheel carrier, track rollers, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. See CSI section 32 31 13 13-0642 for additional gate accessories, 32 31 13 13-0723 for gate replacement parts.		
<b>32 31 13 13-0547 4' High Chain Link Galvanized Steel Sliding Gate</b> <small>(32 31 13 13-0546)</small>		
32 31 13 13-0548 EA 10' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	3,133.53	378.24
For 1" Mesh Fabric, Add	1,034.00	
For 1-1/4" Mesh Fabric, Add	665.56	
For 1-3/4" Mesh Fabric, Add	413.60	
For 2-1/8" Mesh Fabric, Deduct	-206.80	
For Gate With Barb Wire Arm, Add	261.47	
For Vinyl Coated, Add	713.10	
32 31 13 13-0549 EA 12' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	3,765.59	456.66
For 1" Mesh Fabric, Add	1,240.79	
For 1-1/4" Mesh Fabric, Add	798.67	
For 1-3/4" Mesh Fabric, Add	496.32	
For 2-1/8" Mesh Fabric, Deduct	-248.16	
For Gate With Barb Wire Arm, Add	313.76	
For Vinyl Coated, Add	855.72	
32 31 13 13-0550 EA 14' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	4,393.41	532.75
For 1" Mesh Fabric, Add	1,447.59	
For 1-1/4" Mesh Fabric, Add	931.78	
For 1-3/4" Mesh Fabric, Add	579.04	
For 2-1/8" Mesh Fabric, Deduct	-289.52	
For Gate With Barb Wire Arm, Add	366.06	
For Vinyl Coated, Add	998.34	
32 31 13 13-0551 EA 16' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	5,027.84	612.33
For 1" Mesh Fabric, Add	1,654.40	
For 1-1/4" Mesh Fabric, Add	1,064.90	
For 1-3/4" Mesh Fabric, Add	661.76	
For 2-1/8" Mesh Fabric, Deduct	-330.88	
For Gate With Barb Wire Arm, Add	418.35	
For Vinyl Coated, Add	1,140.96	
32 31 13 13-0552 EA 18' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	5,656.37	688.89
For 1" Mesh Fabric, Add	1,861.20	
For 1-1/4" Mesh Fabric, Add	1,198.01	
For 1-3/4" Mesh Fabric, Add	744.48	
For 2-1/8" Mesh Fabric, Deduct	-372.24	
For Gate With Barb Wire Arm, Add	470.65	
For Vinyl Coated, Add	1,283.58	
32 31 13 13-0553 EA 20' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	6,270.76	758.34
For 1" Mesh Fabric, Add	2,067.99	
For 1-1/4" Mesh Fabric, Add	1,331.12	
For 1-3/4" Mesh Fabric, Add	827.20	
For 2-1/8" Mesh Fabric, Deduct	-413.60	
For Gate With Barb Wire Arm, Add	522.94	
For Vinyl Coated, Add	1,426.20	
32 31 13 13-0554 EA 24' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	7,489.34	913.20
For 1" Mesh Fabric, Add	2,463.38	
For 1-1/4" Mesh Fabric, Add	1,585.62	
For 1-3/4" Mesh Fabric, Add	985.35	
For 2-1/8" Mesh Fabric, Deduct	-492.68	
For Gate With Barb Wire Arm, Add	622.92	
For Vinyl Coated, Add	1,698.88	



<b>Exterior Improvements</b>	<b>32</b>
Site Improvements	32 30
Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0555 EA 30' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	10,578.47	1,723.74
For 1" Mesh Fabric, Add	3,101.99	
For 1-1/4" Mesh Fabric, Add	1,996.68	
For 1-3/4" Mesh Fabric, Add	1,240.80	
For 2-1/8" Mesh Fabric, Deduct	-620.40	
For Gate With Barb Wire Arm, Add	784.41	
For Vinyl Coated, Add	2,139.30	
32 31 13 13-0556 EA 40' Long x 4' High Chain Link Galvanized Steel Sliding Gate .....	14,104.62	2,298.33
For 1" Mesh Fabric, Add	4,135.98	
For 1-1/4" Mesh Fabric, Add	2,662.24	
For 1-3/4" Mesh Fabric, Add	1,654.39	
For 2-1/8" Mesh Fabric, Deduct	-827.20	
For Gate With Barb Wire Arm, Add	1,045.88	
For Vinyl Coated, Add	2,852.40	
<b>32 31 13 13-0557 5' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)</b>		
32 31 13 13-0558 EA 10' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	3,270.20	411.68
For 1" Mesh Fabric, Add	1,064.38	
For 1-1/4" Mesh Fabric, Add	685.12	
For 1-3/4" Mesh Fabric, Add	425.75	
For 2-1/8" Mesh Fabric, Deduct	-212.88	
For Gate With Barb Wire Arm, Add	269.15	
For Vinyl Coated, Add	734.06	
32 31 13 13-0559 EA 12' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	3,923.11	493.48
For 1" Mesh Fabric, Add	1,277.26	
For 1-1/4" Mesh Fabric, Add	822.15	
For 1-3/4" Mesh Fabric, Add	510.91	
For 2-1/8" Mesh Fabric, Deduct	-255.45	
For Gate With Barb Wire Arm, Add	322.99	
For Vinyl Coated, Add	880.87	
32 31 13 13-0560 EA 14' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	4,576.75	575.63
For 1" Mesh Fabric, Add	1,490.14	
For 1-1/4" Mesh Fabric, Add	959.17	
For 1-3/4" Mesh Fabric, Add	596.06	
For 2-1/8" Mesh Fabric, Deduct	-298.03	
For Gate With Barb Wire Arm, Add	376.82	
For Vinyl Coated, Add	1,027.68	
32 31 13 13-0561 EA 16' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	5,230.90	658.01
For 1" Mesh Fabric, Add	1,703.02	
For 1-1/4" Mesh Fabric, Add	1,096.20	
For 1-3/4" Mesh Fabric, Add	681.21	
For 2-1/8" Mesh Fabric, Deduct	-340.60	
For Gate With Barb Wire Arm, Add	430.65	
For Vinyl Coated, Add	1,174.50	
32 31 13 13-0562 EA 18' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	5,884.48	740.04
For 1" Mesh Fabric, Add	1,915.89	
For 1-1/4" Mesh Fabric, Add	1,233.22	
For 1-3/4" Mesh Fabric, Add	766.36	
For 2-1/8" Mesh Fabric, Deduct	-383.18	
For Gate With Barb Wire Arm, Add	484.48	
For Vinyl Coated, Add	1,321.30	
32 31 13 13-0563 EA 20' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	6,538.38	822.31
For 1" Mesh Fabric, Add	2,128.77	
For 1-1/4" Mesh Fabric, Add	1,370.24	
For 1-3/4" Mesh Fabric, Add	851.51	
For 2-1/8" Mesh Fabric, Deduct	-425.75	
For Gate With Barb Wire Arm, Add	538.31	
For Vinyl Coated, Add	1,468.12	
32 31 13 13-0564 EA 24' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	7,805.21	987.89
For 1" Mesh Fabric, Add	2,535.78	
For 1-1/4" Mesh Fabric, Add	1,632.23	
For 1-3/4" Mesh Fabric, Add	1,014.31	
For 2-1/8" Mesh Fabric, Deduct	-507.16	
For Gate With Barb Wire Arm, Add	641.23	
For Vinyl Coated, Add	1,748.82	
32 31 13 13-0565 EA 30' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	9,808.00	1,233.76
For 1" Mesh Fabric, Add	3,193.15	
For 1-1/4" Mesh Fabric, Add	2,055.36	
For 1-3/4" Mesh Fabric, Add	1,277.26	
For 2-1/8" Mesh Fabric, Deduct	-638.63	
For Gate With Barb Wire Arm, Add	807.46	
For Vinyl Coated, Add	2,202.17	
32 31 13 13-0566 EA 40' Long x 5' High Chain Link Galvanized Steel Sliding Gate .....	13,076.76	1,644.62
For 1" Mesh Fabric, Add	4,257.54	
For 1-1/4" Mesh Fabric, Add	2,740.48	
For 1-3/4" Mesh Fabric, Add	1,703.01	
For 2-1/8" Mesh Fabric, Deduct	-851.51	
For Gate With Barb Wire Arm, Add	1,076.62	
For Vinyl Coated, Add	2,936.23	
<b>32 31 13 13-0567 6' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)</b>		

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0568 EA 10' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	3,460.97	482.65
For 1" Mesh Fabric, Add	1,085.66	
For 1-1/4" Mesh Fabric, Add	698.81	
For 1-3/4" Mesh Fabric, Add	434.26	
For 2-1/8" Mesh Fabric, Deduct	-217.13	
For Gate With Barb Wire Arm, Add	274.53	
For Vinyl Coated, Add	748.73	
32 31 13 13-0569 EA 12' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	4,149.77	577.37
For 1" Mesh Fabric, Add	1,302.79	
For 1-1/4" Mesh Fabric, Add	838.58	
For 1-3/4" Mesh Fabric, Add	521.12	
For 2-1/8" Mesh Fabric, Deduct	-260.56	
For Gate With Barb Wire Arm, Add	329.44	
For Vinyl Coated, Add	898.48	
32 31 13 13-0570 EA 14' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	4,841.17	673.51
For 1" Mesh Fabric, Add	1,519.92	
For 1-1/4" Mesh Fabric, Add	978.34	
For 1-3/4" Mesh Fabric, Add	607.97	
For 2-1/8" Mesh Fabric, Deduct	-303.98	
For Gate With Barb Wire Arm, Add	384.35	
For Vinyl Coated, Add	1,048.22	
32 31 13 13-0571 EA 16' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	5,533.01	769.88
For 1" Mesh Fabric, Add	1,737.05	
For 1-1/4" Mesh Fabric, Add	1,118.10	
For 1-3/4" Mesh Fabric, Add	694.82	
For 2-1/8" Mesh Fabric, Deduct	-347.41	
For Gate With Barb Wire Arm, Add	439.25	
For Vinyl Coated, Add	1,197.97	
32 31 13 13-0572 EA 18' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	6,224.43	866.01
For 1" Mesh Fabric, Add	1,954.18	
For 1-1/4" Mesh Fabric, Add	1,257.86	
For 1-3/4" Mesh Fabric, Add	781.67	
For 2-1/8" Mesh Fabric, Deduct	-390.84	
For Gate With Barb Wire Arm, Add	494.16	
For Vinyl Coated, Add	1,347.71	
32 31 13 13-0573 EA 20' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	6,922.33	965.40
For 1" Mesh Fabric, Add	2,171.32	
For 1-1/4" Mesh Fabric, Add	1,397.63	
For 1-3/4" Mesh Fabric, Add	868.53	
For 2-1/8" Mesh Fabric, Deduct	-434.26	
For Gate With Barb Wire Arm, Add	549.07	
For Vinyl Coated, Add	1,497.46	
32 31 13 13-0574 EA 24' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	8,255.59	1,154.87
For 1" Mesh Fabric, Add	2,586.46	
For 1-1/4" Mesh Fabric, Add	1,664.85	
For 1-3/4" Mesh Fabric, Add	1,034.58	
For 2-1/8" Mesh Fabric, Deduct	-517.29	
For Gate With Barb Wire Arm, Add	654.05	
For Vinyl Coated, Add	1,783.77	
32 31 13 13-0575 EA 30' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	10,375.12	1,443.97
For 1" Mesh Fabric, Add	3,256.97	
For 1-1/4" Mesh Fabric, Add	2,096.44	
For 1-3/4" Mesh Fabric, Add	1,302.79	
For 2-1/8" Mesh Fabric, Deduct	-651.39	
For Gate With Barb Wire Arm, Add	823.60	
For Vinyl Coated, Add	2,246.19	
32 31 13 13-0576 EA 40' Long x 6' High Chain Link Galvanized Steel Sliding Gate .....	13,831.90	1,924.40
For 1" Mesh Fabric, Add	4,342.63	
For 1-1/4" Mesh Fabric, Add	2,795.25	
For 1-3/4" Mesh Fabric, Add	1,737.05	
For 2-1/8" Mesh Fabric, Deduct	-868.53	
For Gate With Barb Wire Arm, Add	1,098.14	
For Vinyl Coated, Add	2,994.92	
<b>32 31 13 13-0577 7' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)</b>		
32 31 13 13-0578 EA 10' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	3,670.26	538.34
For 1" Mesh Fabric, Add	1,128.20	
For 1-1/4" Mesh Fabric, Add	726.20	
For 1-3/4" Mesh Fabric, Add	451.28	
For 2-1/8" Mesh Fabric, Deduct	-225.64	
For Gate With Barb Wire Arm, Add	285.29	
For Vinyl Coated, Add	778.07	
32 31 13 13-0579 EA 12' Long x 7' High Chain Link Galvanized Steel Sliding Gate .....	4,403.50	645.55
For 1" Mesh Fabric, Add	1,353.88	
For 1-1/4" Mesh Fabric, Add	871.46	
For 1-3/4" Mesh Fabric, Add	541.55	
For 2-1/8" Mesh Fabric, Deduct	-270.78	
For Gate With Barb Wire Arm, Add	342.36	
For Vinyl Coated, Add	933.71	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0580	EA	14' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,138.41 1,579.48 1,016.67 631.79 -315.90 399.41 1,089.29	753.68
32 31 13	13-0581	EA	16' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,871.53 1,805.12 1,161.92 722.05 -361.02 456.47 1,244.91	860.88
32 31 13	13-0582	EA	18' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	6,605.65 2,030.76 1,307.16 812.31 -406.15 513.53 1,400.53	968.67
32 31 13	13-0583	EA	20' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	7,339.03 2,256.41 1,452.40 902.56 -451.28 570.59 1,556.15	1,075.99
32 31 13	13-0584	EA	24' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	8,761.15 2,687.82 1,730.09 1,075.13 -537.56 679.68 1,853.67	1,291.09
32 31 13	13-0585	EA	30' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	11,008.51 3,384.60 2,178.60 1,353.84 -676.92 855.88 2,334.21	1,613.86
32 31 13	13-0586	EA	40' Long x 7' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	14,678.02 4,512.81 2,904.80 1,805.12 -902.56 1,141.17 3,112.28	2,151.85
<b>32 31 13</b>	<b>13-0587</b>		<b>8' High Chain Link Galvanized Steel Sliding Gate</b> <small>(32 31 13 13-0546)</small>		
32 31 13	13-0588	EA	10' Long x 8' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	3,836.83 1,161.63 747.72 464.65 -232.33 293.75 801.13	583.20
32 31 13	13-0589	EA	12' Long x 8' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	4,600.84 1,393.96 897.26 557.58 -278.79 352.50 961.35	698.21
32 31 13	13-0590	EA	14' Long x 8' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	5,367.71 1,626.28 1,046.80 650.51 -325.26 411.24 1,121.57	814.62
32 31 13	13-0591	EA	16' Long x 8' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	6,134.81 1,858.61 1,196.34 743.44 -371.72 469.99 1,281.80	931.03
32 31 13	13-0592	EA	18' Long x 8' High Chain Link Galvanized Steel Sliding Gate <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Barb Wire Arm, Add</i> <i>For Vinyl Coated, Add</i>	6,900.61 2,090.93 1,345.89 836.37 -418.19 528.74 1,442.02	1,046.97

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0593	EA	20' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	7,667.82	1,163.49
		<i>For 1" Mesh Fabric, Add</i>	2,323.26	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,495.43	
		<i>For 1-3/4" Mesh Fabric, Add</i>	929.30	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-464.65	
		<i>For Gate With Barb Wire Arm, Add</i>	587.49	
		<i>For Vinyl Coated, Add</i>	1,602.25	
32 31 13 13-0594	EA	24' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	9,154.65	1,396.31
		<i>For 1" Mesh Fabric, Add</i>	2,767.46	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,781.35	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,106.98	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-553.49	
		<i>For Gate With Barb Wire Arm, Add</i>	699.82	
		<i>For Vinyl Coated, Add</i>	1,908.59	
32 31 13 13-0595	EA	30' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	11,502.61	1,745.65
		<i>For 1" Mesh Fabric, Add</i>	3,484.89	
		<i>For 1-1/4" Mesh Fabric, Add</i>	2,243.15	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,393.96	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-696.98	
		<i>For Gate With Barb Wire Arm, Add</i>	881.24	
		<i>For Vinyl Coated, Add</i>	2,403.38	
32 31 13 13-0596	EA	40' Long x 8' High Chain Link Galvanized Steel Sliding Gate .....	15,333.31	2,325.82
		<i>For 1" Mesh Fabric, Add</i>	4,646.52	
		<i>For 1-1/4" Mesh Fabric, Add</i>	2,990.86	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,858.61	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-929.30	
		<i>For Gate With Barb Wire Arm, Add</i>	1,174.98	
		<i>For Vinyl Coated, Add</i>	3,204.50	
<b>32 31 13 13-0597</b>		<b>9' High Chain Link Galvanized Steel Sliding Gate (32 31 13 13-0546)</b>		
32 31 13 13-0598	EA	10' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	4,033.67	636.22
		<i>For 1" Mesh Fabric, Add</i>	1,201.13	
		<i>For 1-1/4" Mesh Fabric, Add</i>	773.14	
		<i>For 1-3/4" Mesh Fabric, Add</i>	480.45	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-240.23	
		<i>For Gate With Barb Wire Arm, Add</i>	303.73	
		<i>For Vinyl Coated, Add</i>	828.37	
32 31 13 13-0599	EA	12' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	4,835.67	761.14
		<i>For 1" Mesh Fabric, Add</i>	1,441.36	
		<i>For 1-1/4" Mesh Fabric, Add</i>	927.77	
		<i>For 1-3/4" Mesh Fabric, Add</i>	576.55	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-288.27	
		<i>For Gate With Barb Wire Arm, Add</i>	364.48	
		<i>For Vinyl Coated, Add</i>	994.04	
32 31 13 13-0600	EA	14' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	5,641.33	887.80
		<i>For 1" Mesh Fabric, Add</i>	1,681.59	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,082.40	
		<i>For 1-3/4" Mesh Fabric, Add</i>	672.64	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-336.32	
		<i>For Gate With Barb Wire Arm, Add</i>	425.23	
		<i>For Vinyl Coated, Add</i>	1,159.72	
32 31 13 13-0601	EA	16' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	6,448.00	1,015.04
		<i>For 1" Mesh Fabric, Add</i>	1,921.81	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,237.03	
		<i>For 1-3/4" Mesh Fabric, Add</i>	768.73	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-384.36	
		<i>For Gate With Barb Wire Arm, Add</i>	485.98	
		<i>For Vinyl Coated, Add</i>	1,325.39	
32 31 13 13-0602	EA	18' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	7,253.89	1,141.82
		<i>For 1" Mesh Fabric, Add</i>	2,162.05	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,391.66	
		<i>For 1-3/4" Mesh Fabric, Add</i>	864.82	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-432.41	
		<i>For Gate With Barb Wire Arm, Add</i>	546.72	
		<i>For Vinyl Coated, Add</i>	1,491.07	
32 31 13 13-0603	EA	20' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	8,059.74	1,268.60
		<i>For 1" Mesh Fabric, Add</i>	2,402.27	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,546.29	
		<i>For 1-3/4" Mesh Fabric, Add</i>	960.91	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-480.45	
		<i>For Gate With Barb Wire Arm, Add</i>	607.47	
		<i>For Vinyl Coated, Add</i>	1,656.74	
32 31 13 13-0604	EA	24' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	9,622.73	1,522.15
		<i>For 1" Mesh Fabric, Add</i>	2,861.58	
		<i>For 1-1/4" Mesh Fabric, Add</i>	1,841.94	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,144.63	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-572.32	
		<i>For Gate With Barb Wire Arm, Add</i>	723.62	
		<i>For Vinyl Coated, Add</i>	1,973.50	
32 31 13 13-0605	EA	30' Long x 9' High Chain Link Galvanized Steel Sliding Gate .....	12,088.56	1,902.49
		<i>For 1" Mesh Fabric, Add</i>	3,603.41	
		<i>For 1-1/4" Mesh Fabric, Add</i>	2,319.43	
		<i>For 1-3/4" Mesh Fabric, Add</i>	1,441.36	
		<i>For 2-1/8" Mesh Fabric, Deduct</i>	-720.68	
		<i>For Gate With Barb Wire Arm, Add</i>	911.21	
		<i>For Vinyl Coated, Add</i>	2,485.11	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0606 EA 40' Long x 9' High Chain Link Galvanized Steel Sliding Gate.....	16,122.25	2,538.71
For 1" Mesh Fabric, Add	4,804.55	
For 1-1/4" Mesh Fabric, Add	3,092.58	
For 1-3/4" Mesh Fabric, Add	1,921.82	
For 2-1/8" Mesh Fabric, Deduct	-960.91	
For Gate With Barb Wire Arm, Add	1,214.94	
For Vinyl Coated, Add	3,313.48	
<b>32 31 13 13-0607 10' High Chain Link Galvanized Steel Sliding Gate</b> <small>(32 31 13 13-0546)</small>		
32 31 13 13-0608 EA 10' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	4,279.68	699.85
For 1" Mesh Fabric, Add	1,252.80	
For 1-1/4" Mesh Fabric, Add	806.40	
For 1-3/4" Mesh Fabric, Add	501.12	
For 2-1/8" Mesh Fabric, Deduct	-250.56	
For Gate With Barb Wire Arm, Add	316.80	
For Vinyl Coated, Add	864.00	
32 31 13 13-0609 EA 12' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	5,135.62	839.79
For 1" Mesh Fabric, Add	1,503.36	
For 1-1/4" Mesh Fabric, Add	967.68	
For 1-3/4" Mesh Fabric, Add	601.34	
For 2-1/8" Mesh Fabric, Deduct	-300.67	
For Gate With Barb Wire Arm, Add	380.16	
For Vinyl Coated, Add	1,036.80	
32 31 13 13-0610 EA 14' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	5,992.03	979.97
For 1" Mesh Fabric, Add	1,753.92	
For 1-1/4" Mesh Fabric, Add	1,128.96	
For 1-3/4" Mesh Fabric, Add	701.57	
For 2-1/8" Mesh Fabric, Deduct	-350.78	
For Gate With Barb Wire Arm, Add	443.52	
For Vinyl Coated, Add	1,209.60	
32 31 13 13-0611 EA 16' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	6,847.77	1,119.92
For 1" Mesh Fabric, Add	2,004.48	
For 1-1/4" Mesh Fabric, Add	1,290.24	
For 1-3/4" Mesh Fabric, Add	801.79	
For 2-1/8" Mesh Fabric, Deduct	-400.90	
For Gate With Barb Wire Arm, Add	506.88	
For Vinyl Coated, Add	1,382.40	
32 31 13 13-0612 EA 18' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	7,703.42	1,259.74
For 1" Mesh Fabric, Add	2,255.03	
For 1-1/4" Mesh Fabric, Add	1,451.51	
For 1-3/4" Mesh Fabric, Add	902.01	
For 2-1/8" Mesh Fabric, Deduct	-451.01	
For Gate With Barb Wire Arm, Add	570.24	
For Vinyl Coated, Add	1,555.19	
32 31 13 13-0613 EA 20' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	8,559.37	1,399.69
For 1" Mesh Fabric, Add	2,505.60	
For 1-1/4" Mesh Fabric, Add	1,612.80	
For 1-3/4" Mesh Fabric, Add	1,002.24	
For 2-1/8" Mesh Fabric, Deduct	-501.12	
For Gate With Barb Wire Arm, Add	633.60	
For Vinyl Coated, Add	1,728.00	
32 31 13 13-0614 EA 24' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	10,221.74	1,680.28
For 1" Mesh Fabric, Add	2,984.66	
For 1-1/4" Mesh Fabric, Add	1,921.16	
For 1-3/4" Mesh Fabric, Add	1,193.86	
For 2-1/8" Mesh Fabric, Deduct	-596.93	
For Gate With Barb Wire Arm, Add	754.74	
For Vinyl Coated, Add	2,058.38	
32 31 13 13-0615 EA 30' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	12,839.05	2,099.54
For 1" Mesh Fabric, Add	3,758.39	
For 1-1/4" Mesh Fabric, Add	2,419.19	
For 1-3/4" Mesh Fabric, Add	1,503.36	
For 2-1/8" Mesh Fabric, Deduct	-751.68	
For Gate With Barb Wire Arm, Add	950.40	
For Vinyl Coated, Add	2,591.99	
32 31 13 13-0616 EA 40' Long x 10' High Chain Link Galvanized Steel Sliding Gate.....	17,115.39	2,797.75
For 1" Mesh Fabric, Add	5,011.20	
For 1-1/4" Mesh Fabric, Add	3,225.60	
For 1-3/4" Mesh Fabric, Add	2,004.48	
For 2-1/8" Mesh Fabric, Deduct	-1,002.24	
For Gate With Barb Wire Arm, Add	1,267.20	
For Vinyl Coated, Add	3,456.00	

**32 31 13 13-0617 Sliding Cantilever Gate, Single Track, Manually Operated Exposed Roller** (32 31 13 13-0263)

Note: Includes posts (3" diameter posts for up to 15' wide gate and 4" diameter over 15' wide), caps, upper rail, track brackets, roller gate wheel carrier, metal track rollers for rail, 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes truss rod, latches, single track, track rollers with brackets, pipe track clamps and two wheel carriers. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate. See CSI section 32 31 11 00-0021 for gate operators.

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 13-0618	EA	5' High x 10' Wide Galvanized Cantilever Sliding Gate.....	5,865.48	466.10
			For 1" Mesh Fabric, Add	2,145.98	
			For 1-1/4" Mesh Fabric, Add	1,381.32	
			For 1-3/4" Mesh Fabric, Add	858.39	
			For 2-1/8" Mesh Fabric, Deduct	-429.20	
			For Gate With Single Barb Wire Arm, Add	542.66	
			For Gate With Double Barb Wire Arm, Add	789.33	
			For Aluminized Steel Gate And Post, Add	2,367.98	
			For Powder Coated Gate And Post, Add	1,035.99	
			For Vinyl Coated, Add	1,479.99	
32 31	13 13-0619	EA	5' High x 12' Wide Galvanized Cantilever Sliding Gate.....	6,434.35	582.62
			For 1" Mesh Fabric, Add	2,292.06	
			For 1-1/4" Mesh Fabric, Add	1,475.35	
			For 1-3/4" Mesh Fabric, Add	916.83	
			For 2-1/8" Mesh Fabric, Deduct	-458.41	
			For Gate With Single Barb Wire Arm, Add	579.60	
			For Gate With Double Barb Wire Arm, Add	843.06	
			For Aluminized Steel Gate And Post, Add	2,529.17	
			For Powder Coated Gate And Post, Add	1,106.51	
			For Vinyl Coated, Add	1,580.73	
32 31	13 13-0620	EA	5' High x 15' Wide Galvanized Cantilever Sliding Gate.....	7,007.84	699.15
			For 1" Mesh Fabric, Add	2,440.15	
			For 1-1/4" Mesh Fabric, Add	1,570.67	
			For 1-3/4" Mesh Fabric, Add	976.06	
			For 2-1/8" Mesh Fabric, Deduct	-488.03	
			For Gate With Single Barb Wire Arm, Add	617.05	
			For Gate With Double Barb Wire Arm, Add	897.53	
			For Aluminized Steel Gate And Post, Add	2,692.58	
			For Powder Coated Gate And Post, Add	1,178.01	
			For Vinyl Coated, Add	1,682.87	
32 31	13 13-0621	EA	5' High x 20' Wide Galvanized Cantilever Sliding Gate.....	8,221.87	932.19
			For 1" Mesh Fabric, Add	2,765.50	
			For 1-1/4" Mesh Fabric, Add	1,780.09	
			For 1-3/4" Mesh Fabric, Add	1,106.20	
			For 2-1/8" Mesh Fabric, Deduct	-553.10	
			For Gate With Single Barb Wire Arm, Add	699.32	
			For Gate With Double Barb Wire Arm, Add	1,017.20	
			For Aluminized Steel Gate And Post, Add	3,051.59	
			For Powder Coated Gate And Post, Add	1,335.07	
			For Vinyl Coated, Add	1,907.24	
32 31	13 13-0622	EA	6' High x 15' Wide Galvanized Cantilever Sliding Gate.....	7,641.56	932.19
			For 1" Mesh Fabric, Add	2,513.07	
			For 1-1/4" Mesh Fabric, Add	1,617.61	
			For 1-3/4" Mesh Fabric, Add	1,005.23	
			For 2-1/8" Mesh Fabric, Deduct	-502.61	
			For Gate With Single Barb Wire Arm, Add	635.49	
			For Gate With Double Barb Wire Arm, Add	924.35	
			For Aluminized Steel Gate And Post, Add	2,773.04	
			For Powder Coated Gate And Post, Add	1,213.21	
			For Vinyl Coated, Add	1,733.15	
32 31	13 13-0623	EA	6' High x 20' Wide Galvanized Cantilever Sliding Gate.....	8,953.26	1,223.50
			For 1" Mesh Fabric, Add	2,830.22	
			For 1-1/4" Mesh Fabric, Add	1,821.75	
			For 1-3/4" Mesh Fabric, Add	1,132.09	
			For 2-1/8" Mesh Fabric, Deduct	-566.04	
			For Gate With Single Barb Wire Arm, Add	715.69	
			For Gate With Double Barb Wire Arm, Add	1,041.00	
			For Aluminized Steel Gate And Post, Add	3,123.00	
			For Powder Coated Gate And Post, Add	1,366.31	
			For Vinyl Coated, Add	1,951.88	
32 31	13 13-0624	EA	6' High x 25' Wide Galvanized Cantilever Sliding Gate.....	11,872.55	1,514.82
			For 1" Mesh Fabric, Add	3,846.67	
			For 1-1/4" Mesh Fabric, Add	2,476.02	
			For 1-3/4" Mesh Fabric, Add	1,538.67	
			For 2-1/8" Mesh Fabric, Deduct	-769.33	
			For Gate With Single Barb Wire Arm, Add	972.72	
			For Gate With Double Barb Wire Arm, Add	1,414.87	
			For Aluminized Steel Gate And Post, Add	4,244.60	
			For Powder Coated Gate And Post, Add	1,857.01	
			For Vinyl Coated, Add	2,652.88	
32 31	13 13-0625	EA	6' High x 30' Wide Galvanized Cantilever Sliding Gate.....	13,371.51	1,806.13
			For 1" Mesh Fabric, Add	4,245.28	
			For 1-1/4" Mesh Fabric, Add	2,732.59	
			For 1-3/4" Mesh Fabric, Add	1,698.11	
			For 2-1/8" Mesh Fabric, Deduct	-849.06	
			For Gate With Single Barb Wire Arm, Add	1,073.52	
			For Gate With Double Barb Wire Arm, Add	1,561.48	
			For Aluminized Steel Gate And Post, Add	4,684.44	
			For Powder Coated Gate And Post, Add	2,049.44	
			For Vinyl Coated, Add	2,927.78	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13	13-0626	EA 6' High x 36' Wide Galvanized Cantilever Sliding Gate..... <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	15,672.93 5,094.33 3,279.11 2,037.73 -1,018.87 1,288.22 1,873.78 5,621.33 2,459.33 3,513.33	1,980.91
32 31	13	13-0627	EA 8' High x 15' Wide Galvanized Cantilever Sliding Gate..... <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	8,940.19 2,875.22 1,850.72 1,150.09 -575.04 727.07 1,057.55 3,172.66 1,388.04 1,982.91	1,165.24
32 31	13	13-0628	EA 8' High x 20' Wide Galvanized Cantilever Sliding Gate..... <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	10,588.77 3,237.54 2,083.93 1,295.01 -647.51 818.69 1,190.82 3,572.45 1,562.95 2,232.78	1,573.08
32 31	13	13-0629	EA 8' High x 25' Wide Galvanized Cantilever Sliding Gate..... <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	14,077.33 4,400.25 2,832.34 1,760.10 -880.05 1,112.71 1,618.48 4,855.44 2,124.26 3,034.65	1,980.91
32 31	13	13-0630	EA 8' High x 30' Wide Galvanized Cantilever Sliding Gate..... <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	15,823.43 4,855.67 3,125.49 1,942.27 -971.13 1,227.87 1,785.99 5,357.98 2,344.12 3,348.74	2,330.48
32 31	13	13-0631	EA 8' High x 36' Wide Galvanized Cantilever Sliding Gate..... <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	18,522.02 5,826.80 3,750.59 2,330.72 -1,165.36 1,473.44 2,143.19 6,429.58 2,812.94 4,018.49	2,563.53
32 31	13	13-0632	EA 10' High x 15' Wide Galvanized Cantilever Sliding Gate..... <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	10,232.50 3,234.63 2,082.06 1,293.85 -646.93 817.95 1,189.75 3,569.24 1,561.54 2,230.78	1,398.29
32 31	13	13-0633	EA 10' High x 20' Wide Galvanized Cantilever Sliding Gate..... <i>For 1" Mesh Fabric, Add</i> <i>For 1-1/4" Mesh Fabric, Add</i> <i>For 1-3/4" Mesh Fabric, Add</i> <i>For 2-1/8" Mesh Fabric, Deduct</i> <i>For Gate With Single Barb Wire Arm, Add</i> <i>For Gate With Double Barb Wire Arm, Add</i> <i>For Aluminized Steel Gate And Post, Add</i> <i>For Powder Coated Gate And Post, Add</i> <i>For Vinyl Coated, Add</i>	11,892.15 3,601.76 2,318.37 1,440.70 -720.35 910.79 1,324.78 3,974.35 1,738.78 2,483.97	1,806.13

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0634	EA	10' High x 25' Wide Galvanized Cantilever Sliding Gate.....	15,574.82	2,097.44
			For 1" Mesh Fabric, Add	4,950.28	
			For 1-1/4" Mesh Fabric, Add	3,186.39	
			For 1-3/4" Mesh Fabric, Add	1,980.11	
			For 2-1/8" Mesh Fabric, Deduct	-990.06	
			For Gate With Single Barb Wire Arm, Add	1,251.79	
			For Gate With Double Barb Wire Arm, Add	1,820.79	
			For Aluminized Steel Gate And Post, Add	5,462.38	
			For Powder Coated Gate And Post, Add	2,389.79	
			For Vinyl Coated, Add	3,413.99	
32 31 13	13-0635	EA	10' High x 30' Wide Galvanized Cantilever Sliding Gate.....	17,451.78	2,447.01
			For 1" Mesh Fabric, Add	5,462.63	
			For 1-1/4" Mesh Fabric, Add	3,516.17	
			For 1-3/4" Mesh Fabric, Add	2,185.05	
			For 2-1/8" Mesh Fabric, Deduct	-1,092.53	
			For Gate With Single Barb Wire Arm, Add	1,381.35	
			For Gate With Double Barb Wire Arm, Add	2,009.24	
			For Aluminized Steel Gate And Post, Add	6,027.72	
			For Powder Coated Gate And Post, Add	2,637.13	
			For Vinyl Coated, Add	3,767.33	
32 31 13	13-0636	EA	10' High x 36' Wide Galvanized Cantilever Sliding Gate.....	20,429.43	2,680.06
			For 1" Mesh Fabric, Add	6,555.15	
			For 1-1/4" Mesh Fabric, Add	4,219.41	
			For 1-3/4" Mesh Fabric, Add	2,622.06	
			For 2-1/8" Mesh Fabric, Deduct	-1,311.03	
			For Gate With Single Barb Wire Arm, Add	1,657.62	
			For Gate With Double Barb Wire Arm, Add	2,411.09	
			For Aluminized Steel Gate And Post, Add	7,233.27	
			For Powder Coated Gate And Post, Add	3,164.56	
			For Vinyl Coated, Add	4,520.79	
32 31 13	13-0637	EA	12' High x 15' Wide Galvanized Cantilever Sliding Gate.....	12,069.25	1,573.08
			For 1" Mesh Fabric, Add	3,881.55	
			For 1-1/4" Mesh Fabric, Add	2,498.47	
			For 1-3/4" Mesh Fabric, Add	1,552.62	
			For 2-1/8" Mesh Fabric, Deduct	-776.31	
			For Gate With Single Barb Wire Arm, Add	981.54	
			For Gate With Double Barb Wire Arm, Add	1,427.70	
			For Aluminized Steel Gate And Post, Add	4,283.09	
			For Powder Coated Gate And Post, Add	1,873.85	
			For Vinyl Coated, Add	2,676.93	
32 31 13	13-0638	EA	12' High x 20' Wide Galvanized Cantilever Sliding Gate.....	14,009.34	1,980.91
			For 1" Mesh Fabric, Add	4,370.67	
			For 1-1/4" Mesh Fabric, Add	2,813.31	
			For 1-3/4" Mesh Fabric, Add	1,748.27	
			For 2-1/8" Mesh Fabric, Deduct	-874.13	
			For Gate With Single Barb Wire Arm, Add	1,105.23	
			For Gate With Double Barb Wire Arm, Add	1,607.60	
			For Aluminized Steel Gate And Post, Add	4,822.81	
			For Powder Coated Gate And Post, Add	2,109.98	
			For Vinyl Coated, Add	3,014.26	
32 31 13	13-0639	EA	12' High x 25' Wide Galvanized Cantilever Sliding Gate.....	18,200.39	2,272.22
			For 1" Mesh Fabric, Add	5,940.33	
			For 1-1/4" Mesh Fabric, Add	3,823.66	
			For 1-3/4" Mesh Fabric, Add	2,376.13	
			For 2-1/8" Mesh Fabric, Deduct	-1,188.07	
			For Gate With Single Barb Wire Arm, Add	1,502.15	
			For Gate With Double Barb Wire Arm, Add	2,184.95	
			For Aluminized Steel Gate And Post, Add	6,554.85	
			For Powder Coated Gate And Post, Add	2,867.75	
			For Vinyl Coated, Add	4,096.78	
32 31 13	13-0640	EA	12' High x 30' Wide Galvanized Cantilever Sliding Gate.....	20,196.38	2,563.53
			For 1" Mesh Fabric, Add	6,555.15	
			For 1-1/4" Mesh Fabric, Add	4,219.41	
			For 1-3/4" Mesh Fabric, Add	2,622.06	
			For 2-1/8" Mesh Fabric, Deduct	-1,311.03	
			For Gate With Single Barb Wire Arm, Add	1,657.62	
			For Gate With Double Barb Wire Arm, Add	2,411.09	
			For Aluminized Steel Gate And Post, Add	7,233.27	
			For Powder Coated Gate And Post, Add	3,164.56	
			For Vinyl Coated, Add	4,520.79	
32 31 13	13-0641	EA	12' High x 36' Wide Galvanized Cantilever Sliding Gate.....	22,894.97	2,796.58
			For 1" Mesh Fabric, Add	7,526.29	
			For 1-1/4" Mesh Fabric, Add	4,844.51	
			For 1-3/4" Mesh Fabric, Add	3,010.51	
			For 2-1/8" Mesh Fabric, Deduct	-1,505.26	
			For Gate With Single Barb Wire Arm, Add	1,903.20	
			For Gate With Double Barb Wire Arm, Add	2,768.29	
			For Aluminized Steel Gate And Post, Add	8,304.87	
			For Powder Coated Gate And Post, Add	3,633.38	
			For Vinyl Coated, Add	5,190.54	

**32 31 13 13-0642 Gate Accessories** (32 31 13 13-0263)

32 31 13 13-0643	EA	Gate Center Stop, Cast Steel, Ground.....	46.54	
32 31 13 13-0644	EA	Gate Latch, Malleable Galvanized Steel.....	52.12	
32 31 13 13-0645	EA	Gate Keeper, Full Length, Galvanized Steel.....	242.81	
32 31 13 13-0646	EA	Gate Keeper Hold-Open For Cantilever Gate.....	105.98	18.54



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13	13-0647	EA	Heavy Duty Gate Latch, Malleable Galvanized Steel .....	59.19	
32 31 13	13-0648	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For 3' To 5' High Gate.....	1,133.32	
32 31 13	13-0649	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >5' To 8' High Gate .....	1,214.07	
32 31 13	13-0650	EA	Gate Keeper, Full Length, Stainless Steel, Internal Locking Device With 3/4" Stainless Steel Rod For >8' To 12' High Gate .....	1,294.81	
32 31 13	13-0651	LF	Aluminum V-Groove Gate Track.....	61.50	10.27
32 31 13	13-0652	LF	Galvanized Steel V-Groove Gate Track.....	45.51	10.27
32 31 13	13-0653		<b>Vertical-Pivot Lift Gate</b> <small>(32 31 13 13-0263)</small> Note: Includes 2" diameter Schedule 40 pipe frame top and bottom bar, and 1-1/2" bracing. Includes operator. Fabric: galvanized chain link 2" mesh # 9 gauge, galvanized 1.2 ounce coating. Width listed on tasks is opening width of gate.		
32 31 13	13-0654	EA	5' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	22,661.50	873.93
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13	13-0655	EA	5' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	23,011.08	1,048.72
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13	13-0656	EA	5' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	23,360.65	1,223.50
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	287.50	
32 31 13	13-0657	EA	5' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	23,972.46	1,398.29
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13	13-0658	EA	5' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	24,571.16	1,573.08
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13	13-0659	EA	6' High x 12' Wide Galvanized Vertical-Pivot Lift Gate.....	23,697.23	1,136.11
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13	13-0660	EA	6' High x 14' Wide Galvanized Vertical-Pivot Lift Gate.....	24,046.81	1,310.89
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
32 31 13	13-0661	EA	6' High x 16' Wide Galvanized Vertical-Pivot Lift Gate.....	24,396.38	1,485.68
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	287.50	
32 31 13	13-0662	EA	6' High x 18' Wide Galvanized Vertical-Pivot Lift Gate.....	24,890.18	1,660.47
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13	13-0663	EA	6' High x 20' Wide Galvanized Vertical-Pivot Lift Gate.....	25,606.89	1,835.25
			For Curb Notch, Add	239.00	
			For Prewired Loop Kit, Add	245.00	
			For Wind Bracing, Add	317.50	
32 31 13	13-0664		<b>Accessories</b> <small>(32 31 13 13)</small>		
32 31 13	13-0665		<b>Barbed And Concertina Wire</b> <small>(32 31 13 13-0664)</small>		
32 31 13	13-0666		<b>Single Strand Barbed Wire</b> <small>(32 31 13 13-0665)</small>		
32 31 13	13-0667	LF	Galvanized Barbed Wire, Per Strand.....	1.06	0.49
			Note: Includes clips. 4 points 12-1/2 Gauge, Class I.		
			For >500 To 2,000, Deduct	-0.10	
			For >2,000, Deduct	-0.15	
32 31 13	13-0668	LF	Vinyl Coated Barbed Wire (Fused), Per Strand .....	1.20	0.49
			Note: Includes clips.		
			For >500 To 2,000, Deduct	-0.11	
			For >2,000, Deduct	-0.16	
32 31 13	13-0669	EA	Barbed Wire Extension Arms 3 Strands (Single Arm).....	11.75	7.81
32 31 13	13-0670	EA	Barbed Wire Extension Arms 6 Strands (Double Arm) .....	19.06	9.37
32 31 13	13-0671	EA	Barbed Wire Eye Tops (For Single Strand) .....	12.04	7.81
32 31 13	13-0672		<b>Galvanized Steel Concertina (Razor) Wire, Single Coil</b> <small>(32 31 13 13-0665)</small>		
32 31 13	13-0673	LF	18" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	5.18	0.68
			For >500 To 1,500, Deduct	-0.44	
			For >1,500 To 5,000, Deduct	-0.88	
			For >5,000, Deduct	-1.23	
			For Ground Installation, Deduct	-0.49	
			For Double Coil (Helix), Add	4.20	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0674	LF	18" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	7.80	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-0.66	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-1.32	
		<i>For &gt;5,000, Deduct</i>	-1.85	
		<i>For Ground Installation, Deduct</i>	-0.73	
		<i>For Double Coil (Helix), Add</i>	6.34	
32 31 13 13-0675	LF	18" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	10.33	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-0.87	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-1.74	
		<i>For &gt;5,000, Deduct</i>	-2.46	
		<i>For Ground Installation, Deduct</i>	-0.98	
		<i>For Double Coil (Helix), Add</i>	8.38	
32 31 13 13-0676	LF	24" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	9.02	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-0.73	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-1.46	
		<i>For &gt;5,000, Deduct</i>	-2.02	
		<i>For Ground Installation, Deduct</i>	-0.54	
		<i>For Double Coil (Helix), Add</i>	7.94	
32 31 13 13-0677	LF	24" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	13.63	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-1.10	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-2.21	
		<i>For &gt;5,000, Deduct</i>	-3.05	
		<i>For Ground Installation, Deduct</i>	-0.81	
		<i>For Double Coil (Helix), Add</i>	12.01	
32 31 13 13-0678	LF	24" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	18.01	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-1.46	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-2.92	
		<i>For &gt;5,000, Deduct</i>	-4.03	
		<i>For Ground Installation, Deduct</i>	-1.08	
		<i>For Double Coil (Helix), Add</i>	15.86	
32 31 13 13-0679	LF	30" Diameter, 18" On Center Galvanized Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	29.33	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-2.26	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-4.52	
		<i>For &gt;5,000, Deduct</i>	-6.11	
		<i>For Ground Installation, Deduct</i>	-0.61	
		<i>For Double Coil (Helix), Add</i>	28.11	
32 31 13 13-0680	LF	30" Diameter, 12" On Center Galvanized Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	44.39	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-3.42	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-6.84	
		<i>For &gt;5,000, Deduct</i>	-9.24	
		<i>For Ground Installation, Deduct</i>	-0.92	
		<i>For Double Coil (Helix), Add</i>	42.56	
32 31 13 13-0681	LF	30" Diameter, 9" On Center Galvanized Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	58.65	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-4.52	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-9.04	
		<i>For &gt;5,000, Deduct</i>	-12.22	
		<i>For Ground Installation, Deduct</i>	-1.22	
		<i>For Double Coil (Helix), Add</i>	56.21	
<b>32 31 13 13-0682</b>		<b>Stainless Steel Concertina (Razor) Wire, Single Coil</b> <small>(32 31 13 13-0665)</small>		
32 31 13 13-0683	LF	18" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	9.79	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-0.78	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-1.57	
		<i>For &gt;5,000, Deduct</i>	-2.15	
		<i>For Ground Installation, Deduct</i>	-0.49	
		<i>For Double Coil (Helix), Add</i>	8.81	
32 31 13 13-0684	LF	18" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	14.80	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-1.18	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-2.37	
		<i>For &gt;5,000, Deduct</i>	-3.25	
		<i>For Ground Installation, Deduct</i>	-0.73	
		<i>For Double Coil (Helix), Add</i>	13.34	
32 31 13 13-0685	LF	18" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence.....	19.56	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-1.56	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-3.13	
		<i>For &gt;5,000, Deduct</i>	-4.30	
		<i>For Ground Installation, Deduct</i>	-0.98	
		<i>For Double Coil (Helix), Add</i>	17.61	
32 31 13 13-0686	LF	24" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence.....	12.94	0.68
		<i>For &gt;500 To 1,500, Deduct</i>	-1.02	
		<i>For &gt;1,500 To 5,000, Deduct</i>	-2.05	
		<i>For &gt;5,000, Deduct</i>	-2.81	
		<i>For Ground Installation, Deduct</i>	-0.54	
		<i>For Double Coil (Helix), Add</i>	11.86	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 13 13-0687 LF 24" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence .....	19.57	0.68
<i>For &gt;500 To 1,500, Deduct</i>	-1.55	
<i>For &gt;1,500 To 5,000, Deduct</i>	-3.10	
<i>For &gt;5,000, Deduct</i>	-4.24	
<i>For Ground Installation, Deduct</i>	-0.81	
<i>For Double Coil (Helix), Add</i>	17.95	
32 31 13 13-0688 LF 24" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence .....	25.85	0.68
<i>For &gt;500 To 1,500, Deduct</i>	-2.05	
<i>For &gt;1,500 To 5,000, Deduct</i>	-4.09	
<i>For &gt;5,000, Deduct</i>	-5.60	
<i>For Ground Installation, Deduct</i>	-1.08	
<i>For Double Coil (Helix), Add</i>	23.70	
32 31 13 13-0689 LF 30" Diameter, 18" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 6th Barb On Top Of Chain Link Fence, Per LF Of Fence .....	44.15	0.68
<i>For &gt;500 To 1,500, Deduct</i>	-3.37	
<i>For &gt;1,500 To 5,000, Deduct</i>	-6.74	
<i>For &gt;5,000, Deduct</i>	-9.07	
<i>For Ground Installation, Deduct</i>	-0.61	
<i>For Double Coil (Helix), Add</i>	42.93	
32 31 13 13-0690 LF 30" Diameter, 12" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 4th Barb On Top Of Chain Link Fence, Per LF Of Fence .....	66.85	0.68
<i>For &gt;500 To 1,500, Deduct</i>	-5.11	
<i>For &gt;1,500 To 5,000, Deduct</i>	-10.21	
<i>For &gt;5,000, Deduct</i>	-13.74	
<i>For Ground Installation, Deduct</i>	-0.92	
<i>For Double Coil (Helix), Add</i>	65.02	
32 31 13 13-0691 LF 30" Diameter, 9" On Center, Stainless Steel Concertina (Razor) Wire, Attach To Every 3rd Barb On Top Of Chain Link Fence, Per LF Of Fence .....	88.29	0.68
<i>For &gt;500 To 1,500, Deduct</i>	-6.74	
<i>For &gt;1,500 To 5,000, Deduct</i>	-13.49	
<i>For &gt;5,000, Deduct</i>	-18.15	
<i>For Ground Installation, Deduct</i>	-1.22	
<i>For Double Coil (Helix), Add</i>	85.85	
<b>32 31 13 13-0692 Grounding For Gates</b> <small>(32 31 13 13-0664)</small>		
Note: Includes two of each of the following per opening: 5/8 ground rods, clamps, braided straps and #6 bare copper wire.		
32 31 13 13-0693 OPNG Grounding For Gates (Per Opening) .....	446.41	
<b>32 31 13 13-0694 Coiled Spring Reinforcing Wire</b> <small>(32 31 13 13-0664)</small>		
<b>32 31 13 13-0695 Galvanized Steel</b> <small>(32 31 13 13-0694)</small>		
32 31 13 13-0696 LF 7 Gauge, Galvanized Steel, Reinforcing Wire Coiled Spring .....	1.17	0.49
<b>32 31 13 13-0697 Vinyl Coated Steel</b> <small>(32 31 13 13-0694)</small>		
32 31 13 13-0698 LF 9 Gauge, Vinyl Coated Steel, Reinforcing Wire Coiled Spring .....	1.17	0.49
<b>32 31 13 13-0699 Bending Of Fabric Around Pipe Railings</b> <small>(32 31 13 13-0664)</small>		
Note: Only where specified.		
32 31 13 13-0700 LF Bend Chain Link Fence Fabric Around Pipe Railing, Top .....	1.51	
32 31 13 13-0701 LF Bend Chain Link Fence Fabric Around Pipe Railing, Bottom .....	1.31	
<b>32 31 13 13-0702 Mounting Plate With Anchors Or Bolts</b> <small>(32 31 13 13-0664)</small>		
Note: For drilling for anchor or bolts, installing post on or against flat surface.		
32 31 13 13-0703 EA Mounting Plate For 1-5/8" Diameter Post .....	45.26	
32 31 13 13-0704 EA Mounting Plate For 2" Diameter Post .....	46.04	
32 31 13 13-0705 EA Mounting Plate For 2-1/2" Diameter Post .....	47.30	
32 31 13 13-0706 EA Mounting Plate For 3" Diameter Post .....	57.20	
32 31 13 13-0707 EA Mounting Plate For 4" Diameter Post .....	65.92	
32 31 13 13-0708 EA Mounting Plate For 6-5/8" Diameter Post .....	76.57	
32 31 13 13-0709 EA Mounting Plate For 8-5/8" Diameter Post .....	90.46	
<b>32 31 13 13-0710 Tension Bar</b> <small>(32 31 13 13-0664)</small>		
32 31 13 13-0711 EA 3' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	15.93	
32 31 13 13-0712 EA 3-1/2' Long x 5/8" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	16.95	
32 31 13 13-0713 EA 4' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	21.02	
32 31 13 13-0714 EA 5' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	24.41	
32 31 13 13-0715 EA 6' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	28.91	
32 31 13 13-0716 EA 7' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	33.60	
32 31 13 13-0717 EA 8' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	38.01	
32 31 13 13-0718 EA 9' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	45.72	
32 31 13 13-0719 EA 10' Long x 3/4" Wide x 3/16" Thick Galvanized Steel Tension Bar .....	54.74	
<b>32 31 13 13-0720 Truss Rods</b> <small>(32 31 13 13-0664)</small>		

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 31 13 13-0721 LF 3/8" Diameter Truss Rods..... 2.15 0.53

**32 31 13 13-0722 Fence And Gate Repair And Replacement (32 31 13 13)****32 31 13 13-0723 Fence And Gate Parts Replacement (32 31 13 13-0722)**

32 31 13 13-0724	EA	Cantilever Roller Assembly, Ball Bearing With Fittings, Replacement.....	127.98	
32 31 13 13-0725	EA	Sliding Gate Roller Assembly Replacement.....	124.53	
32 31 13 13-0726	EA	Rod And Lock Gate Keeper Replacement.....	127.96	
32 31 13 13-0727	EA	Galvanized Gate Holdback Replacement.....	27.32	
32 31 13 13-0728	LF	3/8" Cross Bracing Rod Replacement.....	1.62	
32 31 13 13-0729	LF	1-5/8" Diagonal Pipe Bracing Replacement.....	2.55	
32 31 13 13-0730	EA	2-3/8" To 2-1/2" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	27.77	
32 31 13 13-0731	EA	2-7/8" To 3" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	31.61	
32 31 13 13-0732	EA	3-1/2" To 4" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	35.59	
32 31 13 13-0733	EA	6-1/2" To 6-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	53.12	
32 31 13 13-0734	EA	8-5/8" Diameter Galvanized Steel Gate Hinge With Bolts, Replacement.....	128.91	
32 31 13 13-0735	EA	2-1/2" x 2" Off Set Gate Hinge Replacement.....	26.02	
32 31 13 13-0736	EA	3" x 2" Off Set Gate Hinge Replacement.....	27.15	
32 31 13 13-0737	EA	4" x 2" Off Set Gate Hinge Replacement.....	28.94	
32 31 13 13-0738	EA	6-5/8" x 2" Off Set Gate Hinge Replacement.....	48.05	
32 31 13 13-0739	EA	8-5/8" x 2" Off Set Gate Hinge Replacement.....	76.42	
32 31 13 13-0740	EA	1-5/8" Aluminum Die-Cast Post Cap Replacement.....	5.62	
32 31 13 13-0741	EA	2" Aluminum Die-Cast Post Cap Replacement.....	6.18	
32 31 13 13-0742	EA	2-1/2" Aluminum Die-Cast Post Cap Replacement.....	7.24	
32 31 13 13-0743	EA	3" Aluminum Die-Cast Post Cap Replacement.....	8.49	
32 31 13 13-0744	EA	2" Galvanized Post Cap Replacement.....	6.28	
32 31 13 13-0745	EA	2-1/2" Galvanized Post Cap Replacement.....	6.78	
32 31 13 13-0746	EA	3" Galvanized Post Cap Replacement.....	7.80	
32 31 13 13-0747	EA	4" Galvanized Post Cap Replacement.....	11.78	
32 31 13 13-0748	EA	6-5/8" Galvanized Post Cap Replacement.....	22.71	
32 31 13 13-0749	EA	8-5/8" Galvanized Post Cap Replacement.....	37.53	
32 31 13 13-0750	EA	1-5/8" Boulevard Clamp Replacement.....	10.39	
32 31 13 13-0751	EA	2" Boulevard Clamp Replacement.....	12.68	
32 31 13 13-0752	EA	2-1/2" Boulevard Clamp Replacement.....	14.86	
32 31 13 13-0753	EA	3" Boulevard Clamp Replacement.....	18.03	
32 31 13 13-0754	EA	1-5/8" Gate Brace Or End Rail Clamp Replacement.....	10.17	
32 31 13 13-0755	EA	2" Gate Brace Or End Rail Clamp Replacement.....	12.37	
32 31 13 13-0756	EA	2-1/2" Gate Brace Or End Rail Clamp Replacement.....	14.56	
32 31 13 13-0757	EA	3" Gate Brace Or End Rail Clamp Replacement.....	17.71	
32 31 13 13-0758	EA	1-3/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.72	
32 31 13 13-0759	EA	1-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.82	
32 31 13 13-0760	EA	2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.08	
32 31 13 13-0761	EA	2-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	10.96	
32 31 13 13-0762	EA	3" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.16	
32 31 13 13-0763	EA	3-1/2" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.32	
32 31 13 13-0764	EA	4" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	11.79	
32 31 13 13-0765	EA	6-5/8" Heavy Duty Galvanized Tension Band With Bolt, Replacement.....	15.22	

**32 31 13 13-0766 Removal And Reinstallation Of Chain Link Fences (32 31 13 13)**

Note: Includes removal, storage, cleaning and reinstallation of fence fabric, rails and other components. Excludes post work.

32 31 13 13-0767	LF	Removal And Reinstallation Of Chain Link Fence Up To 5' Height.....	19.52	
32 31 13 13-0768	LF	Removal And Reinstallation Of Chain Link Fence 6' To 12' Height.....	29.28	

**32 31 13 33 Chain Link Backstops (32 31 13)****32 31 13 33-0001 Regulation Baseball Backstop (32 31 13 33)**

See CSI section 32 31 13 13-0001 for auguring holes and concrete.

32 31 13 33-0002	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Galvanized.....	12,793.14	1,907.64
32 31 13 33-0003	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Galvanized.....	18,514.85	2,543.52
32 31 13 33-0004	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Galvanized.....	23,676.24	2,967.43
32 31 13 33-0005	EA	20'-6" Wide x 13' High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	18,181.96	1,907.64
32 31 13 33-0006	EA	34' Wide x 17'-6" High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	26,578.23	2,543.52
32 31 13 33-0007	EA	48'-3-1/2" Wide x 24' High Baseball Backstop Prefabricated With Hood, Vinyl Coated.....	34,317.13	2,967.43

**32 31 13 33-0008 Regulation Softball Backstop (32 31 13 33)**

See CSI section 32 31 13 13-0001 for auguring holes and concrete.

**32 31 13 33-0009 14' High Softball Backstop (32 31 13 33-0008)**

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.

32 31 13 33-0010	EA	14' Softball Backstop, Galvanized Regulation.....	10,944.93	2,026.47
32 31 13 33-0011	EA	14' Softball Backstop, Vinyl Coated Regulation.....	14,809.89	2,026.47

**32 31 13 33-0012 18' High Softball Backstop (32 31 13 33-0008)**

Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	13 33-0013	EA	18' Softball Backstop, Galvanized Regulation .....	12,798.65	2,252.88
32 31	13 33-0014	EA	18' Softball Backstop Vinyl Coated Regulation .....	17,473.99	2,252.88
<b>32 31</b>	<b>13 33-0015</b>		<b>20' High Softball Backstop</b> <small>(32 31 13 33-0008)</small> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31	13 33-0016	EA	20' Softball Backstop, Galvanized Regulation .....	14,525.35	2,375.35
32 31	13 33-0017	EA	20' Softball Backstop, Vinyl Coated Regulation .....	20,073.48	2,375.35
<b>32 31</b>	<b>13 33-0018</b>		<b>22' High Softball Backstop</b> <small>(32 31 13 33-0008)</small> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31	13 33-0019	EA	22' Softball Backstop, Galvanized Regulation .....	16,766.58	2,447.01
32 31	13 33-0020	EA	22' Softball Backstop, Vinyl Coated Regulation .....	23,436.74	2,447.01
<b>32 31</b>	<b>13 33-0021</b>		<b>24' High Softball Backstop</b> <small>(32 31 13 33-0008)</small> Note: Includes 3" outside diameter posts every 8', top, middle, and bottom brace rails, overhang panel with 9 gauge mesh and 1-1/8" outside diameter frame, 16' of 6 gauge mesh and 32' of 9 gauge mesh.		
32 31	13 33-0022	EA	24' Softball Backstop, Galvanized Regulation .....	19,999.90	2,796.58
32 31	13 33-0023	EA	24' Softball Backstop, Vinyl Coated Regulation .....	28,290.84	2,796.58
<b>32 31</b>	<b>16</b>		<b>Welded Wire Fences and Gates</b> <small>(32 31)</small>		
32 31	16 00-0001		Welded Wire Fence <small>(32 31 16)</small>		
32 31	16 00-0002		12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh <small>(32 31 16 00-0001)</small> Note: Posts 5' on center.		
32 31	16 00-0003	LF	3' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5' .....	9.52	1.70
32 31	16 00-0004	LF	5' High, 12 Gauge Galvanized Steel Welded Wire Fence, 2" x 4" Mesh, Posts At 5' .....	10.32	1.70
32 31	16 00-0005		14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh <small>(32 31 16 00-0001)</small> Note: Posts 5' on center.		
32 31	16 00-0006	LF	3' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5' .....	9.36	1.70
32 31	16 00-0007	LF	5' High, 14 Gauge Galvanized Steel Welded Wire Fence, 1" x 2" Mesh, Posts At 5' .....	10.07	1.70
<b>32 31</b>	<b>19</b>		<b>Decorative Metal Fences and Gates</b> <small>(32 31)</small> See CSI section 32 31 13 13-0001 for drilling and grouting.		
32 31	19 00-0001		Wrought Iron Fence <small>(32 31 19)</small> Note: Factory primed.		
32 31	19 00-0002		Wrought Iron Fence, 3/4" Verticals At >3" To 4" On Center <small>(32 31 19 00-0001)</small> Note: Factory primed 8 foot long panel sections.		
32 31	19 00-0003	LF	3' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center .....	51.08	10.74
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	9.16	
			For Verticals Up To 2" On Center, Add	9.48	
			For Verticals >2" To 2-1/2" On Center, Add	5.92	
			For Verticals >2-1/2" To 3" On Center, Add	2.37	
			For Verticals >4" To 6" On Center, Deduct	-2.66	
			For Pickets Extending Above Top Rail, Add	4.77	
			For Curved Pickets Extending Above Top Rail, Add	11.23	
32 31	19 00-0004	LF	4' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center .....	65.61	13.67
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	11.69	
			For Verticals Up To 2" On Center, Add	12.56	
			For Verticals >2" To 2-1/2" On Center, Add	7.85	
			For Verticals >2-1/2" To 3" On Center, Add	3.14	
			For Verticals >4" To 6" On Center, Deduct	-3.53	
			For Pickets Extending Above Top Rail, Add	6.22	
			For Curved Pickets Extending Above Top Rail, Add	14.73	
32 31	19 00-0005	LF	5' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center .....	78.18	14.25
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	13.74	
			For Verticals Up To 2" On Center, Add	15.84	
			For Verticals >2" To 2-1/2" On Center, Add	9.90	
			For Verticals >2-1/2" To 3" On Center, Add	3.96	
			For Verticals >4" To 6" On Center, Deduct	-4.45	
			For Pickets Extending Above Top Rail, Add	7.62	
			For Curved Pickets Extending Above Top Rail, Add	18.24	
32 31	19 00-0006	LF	6' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center .....	94.68	17.18
			For 6' Length Fence Panels With Posts Set 6' O.C., Add	16.61	
			For Verticals Up To 2" On Center, Add	19.28	
			For Verticals >2" To 2-1/2" On Center, Add	12.05	
			For Verticals >2-1/2" To 3" On Center, Add	4.82	
			For Verticals >4" To 6" On Center, Deduct	-5.42	
			For Pickets Extending Above Top Rail, Add	9.25	
			For Curved Pickets Extending Above Top Rail, Add	22.16	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0007 LF 7' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 2" Square Posts, Set 8' On Center.....	111.24	18.17
For 6' Length Fence Panels With Posts Set 6' O.C., Add	19.23	
For Verticals Up To 2" On Center, Add	23.96	
For Verticals >2" To 2-1/2" On Center, Add	14.98	
For Verticals >2-1/2" To 3" On Center, Add	5.99	
For Verticals >4" To 6" On Center, Deduct	-6.74	
For Pickets Extending Above Top Rail, Add	11.18	
For Curved Pickets Extending Above Top Rail, Add	27.06	
32 31 19 00-0008 LF 8' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	127.78	19.12
For 6' Length Fence Panels With Posts Set 6' O.C., Add	21.85	
For Verticals Up To 2" On Center, Add	28.65	
For Verticals >2" To 2-1/2" On Center, Add	17.90	
For Verticals >2-1/2" To 3" On Center, Add	7.16	
For Verticals >4" To 6" On Center, Deduct	-8.06	
For Pickets Extending Above Top Rail, Add	13.10	
For Curved Pickets Extending Above Top Rail, Add	31.96	
32 31 19 00-0009 LF 10' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	155.70	21.47
For 6' Length Fence Panels With Posts Set 6' O.C., Add	26.36	
For Verticals Up To 2" On Center, Add	36.08	
For Verticals >2" To 2-1/2" On Center, Add	22.55	
For Verticals >2-1/2" To 3" On Center, Add	9.02	
For Verticals >4" To 6" On Center, Deduct	-10.15	
For Pickets Extending Above Top Rail, Add	16.24	
For Curved Pickets Extending Above Top Rail, Add	39.87	
32 31 19 00-0010 LF 12' High Wrought Iron Fence, Verticals At >3" To 4" On Center With 3" Square Posts, Set 8' On Center.....	184.19	24.39
For 6' Length Fence Panels With Posts Set 6' O.C., Add	31.04	
For Verticals Up To 2" On Center, Add	43.33	
For Verticals >2" To 2-1/2" On Center, Add	27.08	
For Verticals >2-1/2" To 3" On Center, Add	10.83	
For Verticals >4" To 6" On Center, Deduct	-12.19	
For Pickets Extending Above Top Rail, Add	19.36	
For Curved Pickets Extending Above Top Rail, Add	47.66	
<b>32 31 19 00-0011 Wrought Iron Gates (32 31 19 00-0001)</b>		
Note: Factory primed.		
<b>32 31 19 00-0012 Single Wrought Iron Gates (32 31 19 00-0011)</b>		
Note: Factory primed.		
32 31 19 00-0013 LF 3' Single Wrought Iron Gate, Hardware And Associated Trim .....	62.99	13.08
32 31 19 00-0014 LF 4' Single Wrought Iron Gate, Hardware And Associated Trim .....	82.67	16.20
32 31 19 00-0015 LF 5' Single Wrought Iron Gate, Hardware And Associated Trim .....	101.11	19.52
32 31 19 00-0016 LF 6' Single Wrought Iron Gate, Hardware And Associated Trim .....	122.93	23.42
32 31 19 00-0017 LF 8' Single Wrought Iron Gate, Hardware And Associated Trim .....	165.60	25.96
32 31 19 00-0018 LF 10' Single Wrought Iron Gate, Hardware And Associated Trim .....	200.82	28.69
32 31 19 00-0019 LF 12' Single Wrought Iron Gate, Hardware And Associated Trim .....	235.37	32.59
<b>32 31 19 00-0020 Double Wrought Iron Gates (32 31 19 00-0011)</b>		
Note: Factory primed.		
32 31 19 00-0021 LF 3' Double Wrought Iron Gate, Hardware And Associated Trim .....	77.08	11.71
32 31 19 00-0022 LF 4' Double Wrought Iron Gate, Hardware And Associated Trim .....	101.24	14.64
32 31 19 00-0023 LF 5' Double Wrought Iron Gate, Hardware And Associated Trim .....	123.34	17.57
32 31 19 00-0024 LF 6' Double Wrought Iron Gate, Hardware And Associated Trim .....	149.54	21.08
32 31 19 00-0025 LF 8' Double Wrought Iron Gate, Hardware And Associated Trim .....	202.36	23.42
32 31 19 00-0026 LF 10' Double Wrought Iron Gate, Hardware And Associated Trim .....	245.82	25.76
32 31 19 00-0027 LF 12' Double Wrought Iron Gate, Hardware And Associated Trim .....	288.61	29.28
<b>32 31 19 00-0028 Repair Or Replace Wrought Iron Fence (32 31 19 00-0001)</b>		
32 31 19 00-0029 LF Removal And Replacement Of Wrought Iron Picket.....	19.48	
32 31 19 00-0030 LF Removal And Replacement Of Wrought Iron Post.....	29.22	
32 31 19 00-0031 EA Straighten Wrought Iron Post.....	78.07	
<b>32 31 19 00-0032 Steel Tube Fence, Powder Coated (32 31 19)</b>		
Note: Pickets are 3/4" square x 16 gauge.		
<b>32 31 19 00-0033 Steel Tube Fence, 2 Rail (32 31 19 00-0032)</b>		
Note: 6 foot long panel sections.		
32 31 19 00-0034 LF 3' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts .....	71.65	10.74
For Verticals Up To 2" On Center, Add	10.12	
For Verticals >2" To 2-1/2" On Center, Add	5.06	
For Verticals >3" To 4" On Center, Deduct	-5.06	
For Verticals >4" To 6" On Center, Deduct	-10.12	
For Pickets Extending Above Top Rail, Add	5.35	
For Curved Pickets Extending Above Top Rail, Add	9.42	
For Solid Pickets, Add	14.54	
For Aluminum With Satin Finish, Add	12.03	
For Third Rail, Add	3.80	
For 1" Square x 14 Gauge Pickets, Add	12.65	
For 3" Square Posts, Add	6.33	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0035 LF 3'-6" Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts.....	76.66	11.48
For Verticals Up To 2" On Center, Add	10.74	
For Verticals >2" To 2-1/2" On Center, Add	5.37	
For Verticals >3" To 4" On Center, Deduct	-5.37	
For Verticals >4" To 6" On Center, Deduct	-10.74	
For Pickets Extending Above Top Rail, Add	5.71	
For Curved Pickets Extending Above Top Rail, Add	10.05	
For Solid Pickets, Add	15.53	
For Aluminum With Satin Finish, Add	12.67	
For Third Rail, Add	4.03	
For 1" Square x 14 Gauge Pickets, Add	13.43	
For 3" Square Posts, Add	6.71	
32 31 19 00-0036 LF 4' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts .....	81.09	12.68
For Verticals Up To 2" On Center, Add	11.24	
For Verticals >2" To 2-1/2" On Center, Add	5.62	
For Verticals >3" To 4" On Center, Deduct	-5.62	
For Verticals >4" To 6" On Center, Deduct	-11.24	
For Pickets Extending Above Top Rail, Add	6.02	
For Curved Pickets Extending Above Top Rail, Add	10.58	
For Solid Pickets, Add	16.38	
For Aluminum With Satin Finish, Add	13.14	
For Third Rail, Add	4.22	
For 1" Square x 14 Gauge Pickets, Add	14.06	
For 3" Square Posts, Add	7.03	
32 31 19 00-0037 LF 5' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts .....	86.32	14.25
For Verticals Up To 2" On Center, Add	11.53	
For Verticals >2" To 2-1/2" On Center, Add	5.76	
For Verticals >3" To 4" On Center, Deduct	-5.76	
For Verticals >4" To 6" On Center, Deduct	-11.53	
For Pickets Extending Above Top Rail, Add	6.33	
For Curved Pickets Extending Above Top Rail, Add	11.08	
For Solid Pickets, Add	17.27	
For Aluminum With Satin Finish, Add	12.99	
For Third Rail, Add	4.32	
For 1" Square x 14 Gauge Pickets, Add	14.41	
For 3" Square Posts, Add	7.20	
32 31 19 00-0038 LF 6' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 2-1/2" Square Posts .....	100.13	16.10
For Verticals Up To 2" On Center, Add	13.58	
For Verticals >2" To 2-1/2" On Center, Add	6.79	
For Verticals >3" To 4" On Center, Deduct	-6.79	
For Verticals >4" To 6" On Center, Deduct	-13.58	
For Pickets Extending Above Top Rail, Add	7.38	
For Curved Pickets Extending Above Top Rail, Add	12.94	
For Solid Pickets, Add	20.11	
For Aluminum With Satin Finish, Add	15.54	
For Third Rail, Add	5.09	
For 1" Square x 14 Gauge Pickets, Add	16.98	
For 3" Square Posts, Add	8.49	
32 31 19 00-0039 LF 7' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	114.71	17.57
For Verticals Up To 2" On Center, Add	15.92	
For Verticals >2" To 2-1/2" On Center, Add	7.96	
For Verticals >3" To 4" On Center, Deduct	-7.96	
For Verticals >4" To 6" On Center, Deduct	-15.92	
For Pickets Extending Above Top Rail, Add	8.52	
For Curved Pickets Extending Above Top Rail, Add	14.97	
For Solid Pickets, Add	23.18	
For Aluminum With Satin Finish, Add	18.60	
For Third Rail, Add	5.97	
For 1" Square x 14 Gauge Pickets, Add	19.90	
For 4" Square Posts, Add	27.85	
32 31 19 00-0040 LF 8' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	129.49	19.12
For Verticals Up To 2" On Center, Add	18.25	
For Verticals >2" To 2-1/2" On Center, Add	9.12	
For Verticals >3" To 4" On Center, Deduct	-9.12	
For Verticals >4" To 6" On Center, Deduct	-18.25	
For Pickets Extending Above Top Rail, Add	9.67	
For Curved Pickets Extending Above Top Rail, Add	17.01	
For Solid Pickets, Add	26.27	
For Aluminum With Satin Finish, Add	21.63	
For Third Rail, Add	6.84	
For 1" Square x 14 Gauge Pickets, Add	22.81	
For 4" Square Posts, Add	31.93	
32 31 19 00-0041 LF 9' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 3" Square Posts.....	150.69	20.49
For Verticals Up To 2" On Center, Add	21.94	
For Verticals >2" To 2-1/2" On Center, Add	10.97	
For Verticals >3" To 4" On Center, Deduct	-10.97	
For Verticals >4" To 6" On Center, Deduct	-21.94	
For Pickets Extending Above Top Rail, Add	11.37	
For Curved Pickets Extending Above Top Rail, Add	20.08	
For Solid Pickets, Add	30.83	
For Aluminum With Satin Finish, Add	26.76	
For Third Rail, Add	8.23	
For 1" Square x 14 Gauge Pickets, Add	27.43	
For 4" Square Posts, Add	38.40	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0042	LF		10' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	172.09	21.96
			<i>For Verticals Up To 2" On Center, Add</i>	25.63	
			<i>For Verticals &gt;2" To 2-1/2" On Center, Add</i>	12.82	
			<i>For Verticals &gt;3" To 4" On Center, Deduct</i>	-12.82	
			<i>For Verticals &gt;4" To 6" On Center, Deduct</i>	-25.63	
			<i>For Pickets Extending Above Top Rail, Add</i>	13.09	
			<i>For Curved Pickets Extending Above Top Rail, Add</i>	23.16	
			<i>For Solid Pickets, Add</i>	35.43	
			<i>For Aluminum With Satin Finish, Add</i>	31.86	
			<i>For Third Rail, Add</i>	9.61	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	32.04	
			<i>For 6" Square Posts, Add</i>	44.86	
32 31 19 00-0043	LF		12' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	202.81	24.39
			<i>For Verticals Up To 2" On Center, Add</i>	30.80	
			<i>For Verticals &gt;2" To 2-1/2" On Center, Add</i>	15.40	
			<i>For Verticals &gt;3" To 4" On Center, Deduct</i>	-15.40	
			<i>For Verticals &gt;4" To 6" On Center, Deduct</i>	-30.80	
			<i>For Pickets Extending Above Top Rail, Add</i>	15.53	
			<i>For Curved Pickets Extending Above Top Rail, Add</i>	27.53	
			<i>For Solid Pickets, Add</i>	41.97	
			<i>For Aluminum With Satin Finish, Add</i>	38.89	
			<i>For Third Rail, Add</i>	11.55	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	38.51	
			<i>For 6" Square Posts, Add</i>	53.91	
32 31 19 00-0044	LF		14' Steel Tube Fence, Verticals At >2-1/2" To 3" On Center With 4" Square Posts.....	217.23	26.35
			<i>For Verticals Up To 2" On Center, Add</i>	32.91	
			<i>For Verticals &gt;2" To 2-1/2" On Center, Add</i>	16.45	
			<i>For Verticals &gt;3" To 4" On Center, Deduct</i>	-16.45	
			<i>For Verticals &gt;4" To 6" On Center, Deduct</i>	-32.91	
			<i>For Pickets Extending Above Top Rail, Add</i>	16.62	
			<i>For Curved Pickets Extending Above Top Rail, Add</i>	29.45	
			<i>For Solid Pickets, Add</i>	44.92	
			<i>For Aluminum With Satin Finish, Add</i>	41.45	
			<i>For Third Rail, Add</i>	12.34	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	41.13	
			<i>For 6" Square Posts, Add</i>	57.59	
32 31 19 00-0045			<b>Steel Tube Swing Gates</b> <small>(32 31 19 00-0032)</small>		
32 31 19 00-0046			<b>3' Fence Height Steel Tube Swing Gates, 2 Rail</b> <small>(32 31 19 00-0045)</small>		
32 31 19 00-0047	EA		3' Wide x 3' High Steel Tube Single Swing Gate .....	720.46	20.79
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	157.42	
			<i>For Aluminum With Satin Finish, Add</i>	188.03	
			<i>For Third Rail, Add</i>	49.35	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	65.80	
32 31 19 00-0048	EA		3'-6" Wide x 3' High Steel Tube Single Swing Gate .....	801.84	21.76
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	175.51	
			<i>For Aluminum With Satin Finish, Add</i>	211.13	
			<i>For Third Rail, Add</i>	55.23	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	73.65	
32 31 19 00-0049	EA		4' Wide x 3' High Steel Tube Single Swing Gate .....	887.77	23.03
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	194.55	
			<i>For Aluminum With Satin Finish, Add</i>	235.16	
			<i>For Third Rail, Add</i>	61.39	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	81.85	
32 31 19 00-0050	EA		5' Wide x 3' High Steel Tube Single Swing Gate .....	933.67	24.69
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	204.51	
			<i>For Aluminum With Satin Finish, Add</i>	246.72	
			<i>For Third Rail, Add</i>	64.46	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	85.95	
32 31 19 00-0051	EA		6' Wide x 3' High Steel Tube Single Swing Gate .....	1,042.81	29.57
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	227.97	
			<i>For Aluminum With Satin Finish, Add</i>	272.88	
			<i>For Third Rail, Add</i>	71.55	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	95.40	
32 31 19 00-0052	EA		7' Wide x 3' High Steel Tube Single Swing Gate .....	1,109.16	34.45
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	241.80	
			<i>For Aluminum With Satin Finish, Add</i>	286.20	
			<i>For Third Rail, Add</i>	75.43	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	100.57	
32 31 19 00-0053	EA		8' Wide x 3' High Steel Tube Single Swing Gate .....	1,210.37	39.62
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	263.40	
			<i>For Aluminum With Satin Finish, Add</i>	309.54	
			<i>For Third Rail, Add</i>	81.85	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	109.13	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0054 EA 9' Wide x 3' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,298.12	44.50
For Solid Pickets, Add	282.05	
For Aluminum With Satin Finish, Add	329.28	
For Third Rail, Add	87.33	
For 1" Square x 14 Gauge Pickets, Add	116.44	
32 31 19 00-0055 EA 10' Wide x 3' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,375.17	49.37
For Solid Pickets, Add	298.29	
For Aluminum With Satin Finish, Add	345.80	
For Third Rail, Add	92.01	
For 1" Square x 14 Gauge Pickets, Add	122.68	
32 31 19 00-0056 EA 6' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,506.71	41.57
For Solid Pickets, Add	329.64	
For Aluminum With Satin Finish, Add	395.80	
For Third Rail, Add	103.64	
For 1" Square x 14 Gauge Pickets, Add	138.18	
32 31 19 00-0057 EA 7' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,605.48	43.53
For Solid Pickets, Add	351.43	
For Aluminum With Satin Finish, Add	422.80	
For Third Rail, Add	110.60	
For 1" Square x 14 Gauge Pickets, Add	147.47	
32 31 19 00-0058 EA 8' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,775.56	46.15
For Solid Pickets, Add	389.11	
For Aluminum With Satin Finish, Add	470.31	
For Third Rail, Add	122.77	
For 1" Square x 14 Gauge Pickets, Add	163.70	
32 31 19 00-0059 EA 9' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,860.67	47.82
For Solid Pickets, Add	407.89	
For Aluminum With Satin Finish, Add	493.65	
For Third Rail, Add	128.79	
For 1" Square x 14 Gauge Pickets, Add	171.72	
32 31 19 00-0060 EA 10' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,929.75	49.37
For Solid Pickets, Add	423.07	
For Aluminum With Satin Finish, Add	512.18	
For Third Rail, Add	133.61	
For 1" Square x 14 Gauge Pickets, Add	178.14	
32 31 19 00-0061 EA 12' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,171.23	59.14
For Solid Pickets, Add	475.21	
For Aluminum With Satin Finish, Add	571.44	
For Third Rail, Add	149.52	
For 1" Square x 14 Gauge Pickets, Add	199.36	
32 31 19 00-0062 EA 14' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,378.83	68.90
For Solid Pickets, Add	519.72	
For Aluminum With Satin Finish, Add	620.55	
For Third Rail, Add	162.90	
For 1" Square x 14 Gauge Pickets, Add	217.19	
32 31 19 00-0063 EA 16' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,552.70	79.34
For Solid Pickets, Add	556.50	
For Aluminum With Satin Finish, Add	658.66	
For Third Rail, Add	173.59	
For 1" Square x 14 Gauge Pickets, Add	231.46	
32 31 19 00-0064 EA 18' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,697.89	89.00
For Solid Pickets, Add	586.97	
For Aluminum With Satin Finish, Add	689.04	
For Third Rail, Add	182.29	
For 1" Square x 14 Gauge Pickets, Add	243.05	
32 31 19 00-0065 EA 20' Wide x 3' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,816.32	98.76
For Solid Pickets, Add	611.42	
For Aluminum With Satin Finish, Add	711.40	
For Third Rail, Add	188.97	
For 1" Square x 14 Gauge Pickets, Add	251.97	
<b>32 31 19 00-0066 4' Fence Height Steel Tube Swing Gates, 2 Rail</b> <small>(32 31 19 00-0045)</small>		
32 31 19 00-0067 EA 3' Wide x 4' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	832.65	19.52
For Solid Pickets, Add	182.41	
For Aluminum With Satin Finish, Add	220.15	
For Third Rail, Add	57.51	
For 1" Square x 14 Gauge Pickets, Add	76.68	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0068	EA	3'-6" Wide x 4' High Steel Tube Single Swing Gate.....	901.06	22.74
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	197.62	
			<i>For Aluminum With Satin Finish, Add</i>	239.58	
			<i>For Third Rail, Add</i>	62.46	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	83.28	
32 31	19 00-0069	EA	4' Wide x 4' High Steel Tube Single Swing Gate .....	971.92	24.39
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	213.19	
			<i>For Aluminum With Satin Finish, Add</i>	258.64	
			<i>For Third Rail, Add</i>	67.40	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	89.87	
32 31	19 00-0070	EA	5' Wide x 4' High Steel Tube Single Swing Gate .....	1,030.30	25.96
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	225.96	
			<i>For Aluminum With Satin Finish, Add</i>	273.96	
			<i>For Third Rail, Add</i>	71.42	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	95.22	
32 31	19 00-0071	EA	6' Wide x 4' High Steel Tube Single Swing Gate .....	1,110.11	31.23
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	242.75	
			<i>For Aluminum With Satin Finish, Add</i>	290.87	
			<i>For Third Rail, Add</i>	76.23	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	101.64	
32 31	19 00-0072	EA	7' Wide x 4' High Steel Tube Single Swing Gate .....	1,218.45	36.40
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	265.95	
			<i>For Aluminum With Satin Finish, Add</i>	316.35	
			<i>For Third Rail, Add</i>	83.19	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	110.92	
32 31	19 00-0073	EA	8' Wide x 4' High Steel Tube Single Swing Gate .....	1,367.80	41.57
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	298.39	
			<i>For Aluminum With Satin Finish, Add</i>	354.13	
			<i>For Third Rail, Add</i>	93.22	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	124.29	
32 31	19 00-0074	EA	9' Wide x 4' High Steel Tube Single Swing Gate .....	1,513.58	46.84
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	330.02	
			<i>For Aluminum With Satin Finish, Add</i>	390.84	
			<i>For Third Rail, Add</i>	102.98	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	137.31	
32 31	19 00-0075	EA	10' Wide x 4' High Steel Tube Single Swing Gate .....	1,652.24	52.01
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	360.04	
			<i>For Aluminum With Satin Finish, Add</i>	425.41	
			<i>For Third Rail, Add</i>	112.21	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	149.61	
32 31	19 00-0076	EA	6' Wide x 4' High Steel Tube Double Swing Gate .....	1,665.30	43.92
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	364.81	
			<i>For Aluminum With Satin Finish, Add</i>	440.30	
			<i>For Third Rail, Add</i>	115.02	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	153.36	
32 31	19 00-0077	EA	7' Wide x 4' High Steel Tube Double Swing Gate .....	1,802.13	45.47
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	395.23	
			<i>For Aluminum With Satin Finish, Add</i>	479.16	
			<i>For Third Rail, Add</i>	124.91	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	166.55	
32 31	19 00-0078	EA	8' Wide x 4' High Steel Tube Double Swing Gate .....	1,943.85	48.79
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	426.39	
			<i>For Aluminum With Satin Finish, Add</i>	517.28	
			<i>For Third Rail, Add</i>	134.81	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	179.75	
32 31	19 00-0079	EA	9' Wide x 4' High Steel Tube Double Swing Gate .....	2,055.72	50.36
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	451.19	
			<i>For Aluminum With Satin Finish, Add</i>	548.65	
			<i>For Third Rail, Add</i>	142.83	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	190.45	
32 31	19 00-0080	EA	10' Wide x 4' High Steel Tube Double Swing Gate .....	2,149.76	52.01
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	471.99	
			<i>For Aluminum With Satin Finish, Add</i>	574.67	
			<i>For Third Rail, Add</i>	149.52	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	199.36	
32 31	19 00-0081	EA	12' Wide x 4' High Steel Tube Double Swing Gate .....	2,439.55	62.36
			Note: Includes mounting hardware and associated trim.		
			<i>For Solid Pickets, Add</i>	534.85	
			<i>For Aluminum With Satin Finish, Add</i>	647.55	
			<i>For Third Rail, Add</i>	168.91	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	225.22	





<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0082 EA 14' Wide x 4' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,693.68  589.68 709.73 185.63 247.51	72.80
32 31 19 00-0083 EA 16' Wide x 4' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,913.92  636.90 761.76 199.81 266.41	83.15
32 31 19 00-0084 EA 18' Wide x 4' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,103.86  677.29 804.69 211.71 282.28	93.58
32 31 19 00-0085 EA 20' Wide x 4' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,265.27  711.26 839.05 221.47 295.30	104.03
<b>32 31 19 00-0086 5' Fence Height Steel Tube Swing Gates, 2 Rail</b> <small>(32 31 19 00-0045)</small>		
32 31 19 00-0087 EA 3' Wide x 5' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	906.41  198.82 241.18 62.86 83.81	22.74
32 31 19 00-0088 EA 3'-6" Wide x 5' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	955.87  209.58 253.83 66.20 88.27	24.39
32 31 19 00-0089 EA 4' Wide x 5' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,003.55  219.94 265.93 69.41 92.55	25.96
32 31 19 00-0090 EA 5' Wide x 5' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,072.63  235.12 284.46 74.23 98.97	27.61
32 31 19 00-0091 EA 6' Wide x 5' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,165.89  254.86 304.97 79.98 106.64	33.18
32 31 19 00-0092 EA 7' Wide x 5' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,289.48  281.42 334.59 88.00 117.34	38.65
32 31 19 00-0093 EA 8' Wide x 5' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,462.18  318.96 378.49 99.64 132.85	44.50
32 31 19 00-0094 EA 9' Wide x 5' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,630.34  355.56 421.48 111.00 148.01	50.06
32 31 19 00-0095 EA 10' Wide x 5' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,794.93  391.34 463.39 122.10 162.81	55.52

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0096	EA	6' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,785.71	38.35
			<i>For Solid Pickets, Add</i>	393.57	
			<i>For Aluminum With Satin Finish, Add</i>	486.44	
			<i>For Third Rail, Add</i>	125.72	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	167.62	
32 31	19 00-0097	EA	7' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,891.32	44.69
			<i>For Solid Pickets, Add</i>	415.97	
			<i>For Aluminum With Satin Finish, Add</i>	509.91	
			<i>For Third Rail, Add</i>	132.27	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	176.36	
32 31	19 00-0098	EA	8' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,998.03	51.42
			<i>For Solid Pickets, Add</i>	438.53	
			<i>For Aluminum With Satin Finish, Add</i>	533.23	
			<i>For Third Rail, Add</i>	138.82	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	185.10	
32 31	19 00-0099	EA	9' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,144.66	57.86
			<i>For Solid Pickets, Add</i>	470.15	
			<i>For Aluminum With Satin Finish, Add</i>	569.01	
			<i>For Third Rail, Add</i>	148.45	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	197.94	
32 31	19 00-0100	EA	10' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,273.47	64.21
			<i>For Solid Pickets, Add</i>	497.76	
			<i>For Aluminum With Satin Finish, Add</i>	599.44	
			<i>For Third Rail, Add</i>	156.74	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	208.99	
32 31	19 00-0101	EA	12' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,588.10	71.44
			<i>For Solid Pickets, Add</i>	567.03	
			<i>For Aluminum With Satin Finish, Add</i>	684.65	
			<i>For Third Rail, Add</i>	178.81	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	238.41	
32 31	19 00-0102	EA	14' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,870.99	79.24
			<i>For Solid Pickets, Add</i>	628.99	
			<i>For Aluminum With Satin Finish, Add</i>	759.37	
			<i>For Third Rail, Add</i>	198.34	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	264.45	
32 31	19 00-0103	EA	16' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	3,123.93	87.93
			<i>For Solid Pickets, Add</i>	684.05	
			<i>For Aluminum With Satin Finish, Add</i>	824.14	
			<i>For Third Rail, Add</i>	215.46	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	287.27	
32 31	19 00-0104	EA	18' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	3,351.55	97.68
			<i>For Solid Pickets, Add</i>	733.17	
			<i>For Aluminum With Satin Finish, Add</i>	879.87	
			<i>For Third Rail, Add</i>	230.43	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	307.25	
32 31	19 00-0105	EA	20' Wide x 5' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	3,553.88	108.62
			<i>For Solid Pickets, Add</i>	776.36	
			<i>For Aluminum With Satin Finish, Add</i>	926.56	
			<i>For Third Rail, Add</i>	243.27	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	324.36	
32 31	19 00-0106		<b>6' Fence Height Steel Tube Swing Gates, 2 Rail</b> <small>(32 31 19 00-0045)</small>		
32 31	19 00-0107	EA	3' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	943.56	24.98
			<i>For Solid Pickets, Add</i>	206.67	
			<i>For Aluminum With Satin Finish, Add</i>	249.26	
			<i>For Third Rail, Add</i>	65.13	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	86.84	
32 31	19 00-0108	EA	3'-6" Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	992.05	26.35
			<i>For Solid Pickets, Add</i>	217.28	
			<i>For Aluminum With Satin Finish, Add</i>	262.04	
			<i>For Third Rail, Add</i>	68.48	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	91.30	
32 31	19 00-0109	EA	4' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,041.23	27.81
			<i>For Solid Pickets, Add</i>	228.00	
			<i>For Aluminum With Satin Finish, Add</i>	274.73	
			<i>For Third Rail, Add</i>	71.82	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	95.76	



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0110	EA	5' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,101.67	29.57
		<i>For Solid Pickets, Add</i>	241.22	
		<i>For Aluminum With Satin Finish, Add</i>	290.54	
		<i>For Third Rail, Add</i>	75.96	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	101.29	
32 31 19 00-0111	EA	6' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,236.11	35.72
		<i>For Solid Pickets, Add</i>	270.07	
		<i>For Aluminum With Satin Finish, Add</i>	322.53	
		<i>For Third Rail, Add</i>	84.66	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	112.88	
32 31 19 00-0112	EA	7' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,379.47	41.96
		<i>For Solid Pickets, Add</i>	300.94	
		<i>For Aluminum With Satin Finish, Add</i>	357.20	
		<i>For Third Rail, Add</i>	94.02	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	125.36	
32 31 19 00-0113	EA	8' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,539.69	47.82
		<i>For Solid Pickets, Add</i>	335.67	
		<i>For Aluminum With Satin Finish, Add</i>	397.36	
		<i>For Third Rail, Add</i>	104.72	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	139.63	
32 31 19 00-0114	EA	9' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,693.77	53.96
		<i>For Solid Pickets, Add</i>	368.95	
		<i>For Aluminum With Satin Finish, Add</i>	435.23	
		<i>For Third Rail, Add</i>	114.88	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	153.18	
32 31 19 00-0115	EA	10' Wide x 6' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,881.70	60.11
		<i>For Solid Pickets, Add</i>	409.84	
		<i>For Aluminum With Satin Finish, Add</i>	483.27	
		<i>For Third Rail, Add</i>	127.59	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	170.12	
32 31 19 00-0116	EA	6' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,854.92	41.38
		<i>For Solid Pickets, Add</i>	408.50	
		<i>For Aluminum With Satin Finish, Add</i>	503.34	
		<i>For Third Rail, Add</i>	130.26	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	173.68	
32 31 19 00-0117	EA	7' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,964.47	48.50
		<i>For Solid Pickets, Add</i>	431.62	
		<i>For Aluminum With Satin Finish, Add</i>	527.03	
		<i>For Third Rail, Add</i>	136.95	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	182.60	
32 31 19 00-0118	EA	8' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,072.95	55.23
		<i>For Solid Pickets, Add</i>	454.58	
		<i>For Aluminum With Satin Finish, Add</i>	550.88	
		<i>For Third Rail, Add</i>	143.64	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	191.52	
32 31 19 00-0119	EA	9' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,203.91	62.36
		<i>For Solid Pickets, Add</i>	482.52	
		<i>For Aluminum With Satin Finish, Add</i>	580.99	
		<i>For Third Rail, Add</i>	151.93	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	202.57	
32 31 19 00-0120	EA	10' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,409.76	69.48
		<i>For Solid Pickets, Add</i>	527.30	
		<i>For Aluminum With Satin Finish, Add</i>	633.56	
		<i>For Third Rail, Add</i>	165.84	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	221.12	
32 31 19 00-0121	EA	12' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,826.40	77.39
		<i>For Solid Pickets, Add</i>	619.35	
		<i>For Aluminum With Satin Finish, Add</i>	748.41	
		<i>For Third Rail, Add</i>	195.39	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	260.53	
32 31 19 00-0122	EA	14' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,959.14	86.46
		<i>For Solid Pickets, Add</i>	647.29	
		<i>For Aluminum With Satin Finish, Add</i>	776.64	
		<i>For Third Rail, Add</i>	203.42	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	271.23	
32 31 19 00-0123	EA	16' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	3,249.19	96.22
		<i>For Solid Pickets, Add</i>	710.46	
		<i>For Aluminum With Satin Finish, Add</i>	851.09	
		<i>For Third Rail, Add</i>	223.08	
		<i>For 1" Square x 14 Gauge Pickets, Add</i>	297.44	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0124	EA	18' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,515.70 768.09 917.04 240.73 320.98	107.05
32 31	19 00-0125	EA	20' Wide x 6' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	3,763.32 821.15 975.38 256.65 342.20	119.45
<b>32 31 19 00-0126 7' Fence Height Steel Tube Swing Gates, 2 Rail (32 31 19 00-0045)</b>					
32 31	19 00-0127	EA	3' Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	999.64 218.82 263.31 68.88 91.84	27.03
32 31	19 00-0128	EA	3'-6" Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,050.29 229.90 276.58 72.35 96.47	28.49
32 31	19 00-0129	EA	4' Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,101.15 241.00 289.81 75.83 101.11	29.96
32 31	19 00-0130	EA	5' Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,152.10 252.12 303.03 79.31 105.74	31.53
32 31	19 00-0131	EA	6' Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,333.08 291.31 348.11 91.34 121.79	38.35
32 31	19 00-0132	EA	7' Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,498.81 327.13 389.05 102.31 136.42	44.89
32 31	19 00-0133	EA	8' Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,619.17 352.68 415.93 109.80 146.40	51.62
32 31	19 00-0134	EA	9' Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,756.38 382.08 448.31 118.63 158.17	58.16
32 31	19 00-0135	EA	10' Wide x 7' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,924.88 418.46 489.63 129.73 172.97	65.00
32 31	19 00-0136	EA	6' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	1,963.37 432.26 532.01 137.75 183.67	44.30
32 31	19 00-0137	EA	7' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> <i>For Aluminum With Satin Finish, Add</i> <i>For Third Rail, Add</i> <i>For 1" Square x 14 Gauge Pickets, Add</i>	2,077.55 456.34 556.61 144.71 192.94	51.82



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Fences and Gates	32 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 19 00-0138	EA		8' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	2,192.83  480.59 581.04 151.66 202.22	59.73
32 31 19 00-0139	EA		9' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	2,308.81  505.07 606.18 158.75 211.67	67.23
32 31 19 00-0140	EA		10' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	2,600.62  569.04 683.57 178.94 238.59	75.14
32 31 19 00-0141	EA		12' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	3,144.21  689.49 835.54 217.86 290.48	83.83
32 31 19 00-0142	EA		14' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	3,109.01  679.40 811.94 213.05 284.06	93.98
32 31 19 00-0143	EA		16' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	3,368.39  735.43 875.74 230.17 306.89	104.81
32 31 19 00-0144	EA		18' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	3,678.42  802.53 952.81 250.76 334.35	117.20
32 31 19 00-0145	EA		20' Wide x 7' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	3,882.91  845.64 996.77 263.20 350.93	130.77
<b>32 31 19 00-0146</b>			<b>8' Fence Height Steel Tube Swing Gates, 2 Rail</b> (32 31 19 00-0045)		
32 31 19 00-0147	EA		3' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	1,086.42  237.86 286.40 74.89 99.86	29.28
32 31 19 00-0148	EA		3'-6" Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	1,139.44  249.42 300.12 78.51 104.67	30.84
32 31 19 00-0149	EA		4' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	1,196.04  261.79 314.90 82.38 109.85	32.50
32 31 19 00-0150	EA		5' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	1,246.49  272.30 324.98 85.33 113.77	36.21
32 31 19 00-0151	EA		6' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim. <i>For Solid Pickets, Add</i> ..... <i>For Aluminum With Satin Finish, Add</i> ..... <i>For Third Rail, Add</i> ..... <i>For 1" Square x 14 Gauge Pickets, Add</i> .....	1,474.63  322.57 387.06 101.38 135.17	40.99

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31	19 00-0152	EA	7' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,640.87	49.37
			<i>For Solid Pickets, Add</i>	358.07	
			<i>For Aluminum With Satin Finish, Add</i>	425.51	
			<i>For Third Rail, Add</i>	111.94	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	149.25	
32 31	19 00-0153	EA	8' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,713.41	57.48
			<i>For Solid Pickets, Add</i>	372.56	
			<i>For Aluminum With Satin Finish, Add</i>	436.29	
			<i>For Third Rail, Add</i>	115.55	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	154.07	
32 31	19 00-0154	EA	9' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,836.87	65.97
			<i>For Solid Pickets, Add</i>	398.44	
			<i>For Aluminum With Satin Finish, Add</i>	461.91	
			<i>For Third Rail, Add</i>	122.91	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	163.88	
32 31	19 00-0155	EA	10' Wide x 8' High Steel Tube Single Swing Gate ..... Note: Includes mounting hardware and associated trim.	1,944.25	74.46
			<i>For Solid Pickets, Add</i>	420.70	
			<i>For Aluminum With Satin Finish, Add</i>	482.72	
			<i>For Third Rail, Add</i>	129.06	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	172.08	
32 31	19 00-0156	EA	6' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,134.23	47.33
			<i>For Solid Pickets, Add</i>	470.06	
			<i>For Aluminum With Satin Finish, Add</i>	579.40	
			<i>For Third Rail, Add</i>	149.92	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	199.90	
32 31	19 00-0157	EA	7' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,262.00	57.09
			<i>For Solid Pickets, Add</i>	496.71	
			<i>For Aluminum With Satin Finish, Add</i>	605.17	
			<i>For Third Rail, Add</i>	157.41	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	209.88	
32 31	19 00-0158	EA	8' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,386.90	66.46
			<i>For Solid Pickets, Add</i>	522.80	
			<i>For Aluminum With Satin Finish, Add</i>	630.57	
			<i>For Third Rail, Add</i>	164.77	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	219.69	
32 31	19 00-0159	EA	9' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,491.50	76.31
			<i>For Solid Pickets, Add</i>	544.24	
			<i>For Aluminum With Satin Finish, Add</i>	649.39	
			<i>For Third Rail, Add</i>	170.52	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	227.36	
32 31	19 00-0160	EA	10' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	2,895.67	86.08
			<i>For Solid Pickets, Add</i>	633.09	
			<i>For Aluminum With Satin Finish, Add</i>	758.08	
			<i>For Third Rail, Add</i>	198.74	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	264.98	
32 31	19 00-0161	EA	12' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	3,609.75	96.91
			<i>For Solid Pickets, Add</i>	791.42	
			<i>For Aluminum With Satin Finish, Add</i>	958.30	
			<i>For Third Rail, Add</i>	249.96	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	333.28	
32 31	19 00-0162	EA	14' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	3,299.24	109.30
			<i>For Solid Pickets, Add</i>	718.90	
			<i>For Aluminum With Satin Finish, Add</i>	849.20	
			<i>For Third Rail, Add</i>	224.01	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	298.69	
32 31	19 00-0163	EA	16' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	3,532.62	123.64
			<i>For Solid Pickets, Add</i>	768.35	
			<i>For Aluminum With Satin Finish, Add</i>	900.86	
			<i>For Third Rail, Add</i>	238.46	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	317.95	
32 31	19 00-0164	EA	18' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	3,893.33	139.35
			<i>For Solid Pickets, Add</i>	846.13	
			<i>For Aluminum With Satin Finish, Add</i>	988.78	
			<i>For Third Rail, Add</i>	262.13	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	349.51	
32 31	19 00-0165	EA	20' Wide x 8' High Steel Tube Double Swing Gate ..... Note: Includes mounting hardware and associated trim.	3,972.31	157.02
			<i>For Solid Pickets, Add</i>	860.12	
			<i>For Aluminum With Satin Finish, Add</i>	989.77	
			<i>For Third Rail, Add</i>	264.27	
			<i>For 1" Square x 14 Gauge Pickets, Add</i>	352.36	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 31 19 00-0166</b> <b>Replace Steel Tube Fence Pickets</b> <small>(32 31 19 00-0032)</small>		
32 31 19 00-0167    LF    Removal And Replacement Of 3/4" Square x 16 Gauge Steel Tube Fence Picket ..... <i>For 1" Square x 14 Gauge Pickets, Add</i>	28.16	0.86
<b>32 31 19 00-0168</b> <b>Removal And Reinstallation Of Ornamental Fences</b> <small>(32 31 19)</small>		
<i>Note: Including storage and cleaning. Excludes augering and concrete.</i>		
32 31 19 00-0169    LF    Removal And Reinstallation Of Ornamental Fence Up To 5' Height.....	43.92	
32 31 19 00-0170    LF    Removal And Reinstallation Of Ornamental Fence, 6' Height .....	48.31	
32 31 19 00-0171    LF    Removal And Reinstallation Of Ornamental Fence, 7' Height .....	52.70	
32 31 19 00-0172    LF    Removal And Reinstallation Of Ornamental Fence, 8' Height .....	57.09	
32 31 19 00-0173    LF    Removal And Reinstallation Of Ornamental Fence, 9' Height .....	61.48	
32 31 19 00-0174    LF    Removal And Reinstallation Of Ornamental Fence, 10' Height .....	65.87	
32 31 19 00-0175    LF    Removal And Reinstallation Of Ornamental Fence 12' Height .....	73.19	
<b>32 31 23</b> <b>Plastic Fences and Gates</b> <small>(32 31)</small>		
<b>32 31 23 00-0001</b> <b>Vinyl Fence</b> <small>(32 31 23)</small>		
<b>32 31 23 00-0002</b> <b>Privacy Tongue And Groove Vinyl Fence</b> <small>(32 31 23 00-0001)</small>		
<i>Note: With 1-1/2" x 5-1/2" top and bottom rails, 5" x 5" posts installed 7' centers. Post includes flat cap.</i>		
32 31 23 00-0003    LF    3' High Privacy Tongue And Groove Vinyl Fence .....	58.11	6.35
32 31 23 00-0004    LF    4' High Privacy Tongue And Groove Vinyl Fence .....	65.15	7.63
32 31 23 00-0005    LF    5' High Privacy Tongue And Groove Vinyl Fence .....	72.78	8.89
32 31 23 00-0006    LF    6' High Privacy Tongue And Groove Vinyl Fence .....	80.24	10.16
<b>32 31 23 00-0007</b> <b>Semi-Privacy 6" Picket Vinyl Fence</b> <small>(32 31 23 00-0001)</small>		
<i>Note: With 1-1/2" x 5-1/2" top and bottom rails, 2" x 3-1/2" mid rail, 5" x 5" posts installed 6' centers. Post includes flat cap.</i>		
32 31 23 00-0008    LF    5' High Semi-Privacy 6" Picket Vinyl Fence.....	77.89	8.89
32 31 23 00-0009    LF    6' High Semi-Privacy 6" Picket Vinyl Fence.....	85.41	10.16
<b>32 31 23 00-0010</b> <b>Picket Straight Top Vinyl Fence</b> <small>(32 31 23 00-0001)</small>		
<i>Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.</i>		
32 31 23 00-0011    LF    3' High Picket Straight Top Vinyl Fence.....	53.59	6.35
32 31 23 00-0012    LF    4' High Picket Straight Top Vinyl Fence.....	60.87	7.63
32 31 23 00-0013    LF    5' High Picket Straight Top Vinyl Fence.....	69.79	8.89
32 31 23 00-0014    LF    6' High Picket Straight Top Vinyl Fence.....	77.31	10.16
<b>32 31 23 00-0015</b> <b>Picket Scalloped Top Vinyl Fence</b> <small>(32 31 23 00-0001)</small>		
<i>Note: With 2-1/2" x 3-1/2" top rail, 1-1/2" x 5-1/2" bottom rail, 1-3/8" x 1-3/8" or 1" x 3" pickets, 5" x 5" posts installed 6' centers. Post includes flat cap.</i>		
32 31 23 00-0016    LF    3' High Picket Scalloped Top Vinyl Fence .....	59.39	6.35
32 31 23 00-0017    LF    4' High Picket Scalloped Top Vinyl Fence .....	66.85	7.63
32 31 23 00-0018    LF    5' High Picket Scalloped Top Vinyl Fence .....	75.38	8.89
32 31 23 00-0019    LF    6' High Picket Scalloped Top Vinyl Fence .....	83.08	10.16
<b>32 31 23 00-0020</b> <b>Post And Rail Vinyl Fence, Ranch Style</b> <small>(32 31 23 00-0001)</small>		
<i>Note: With 1-1/2" x 5-1/2" rails, 5" x 5" posts installed 8' centers. Post includes flat cap.</i>		
32 31 23 00-0021    LF    5' High, 2 Rail, Post And Rail Vinyl Fence .....	21.88	6.35
32 31 23 00-0022    LF    6-1/2' High, 3 Rail, Post And Rail Vinyl Fence .....	28.06	7.63
32 31 23 00-0023    LF    7' High, 4 Rail, Post And Rail Vinyl Fence .....	32.29	8.26
<b>32 31 23 00-0024</b> <b>Post, Rails And Pickets (Traditional Style) Vinyl Fence</b> <small>(32 31 23 00-0001)</small>		
<i>Note: With top and bottom 3" x 3" rails, 5" x 5" posts and 1-1/2" x 1-1/2" pickets. Post includes flat cap.</i>		
32 31 23 00-0025    LF    3' High Rail And Picket Vinyl Fence, 72" On Center Posts .....	69.53	6.98
32 31 23 00-0026    LF    4' High Rail And Picket Vinyl Fence, 72" On Center Posts .....	75.98	8.26
32 31 23 00-0027    LF    3' High Rail And Picket Vinyl Fence, 96" On Center Posts .....	65.58	6.35
32 31 23 00-0028    LF    4' High Rail And Picket Vinyl Fence, 96" On Center Posts .....	71.36	7.63
<b>32 31 23 00-0029</b> <b>Vinyl Gates</b> <small>(32 31 23)</small>		
<b>32 31 23 00-0030</b> <b>Gates For Privacy And Semi-Privacy Fences</b> <small>(32 31 23 00-0029)</small>		
<i>Note: Includes hinges.</i>		
<b>32 31 23 00-0031</b> <b>3' High Gates For Privacy And Semi-Privacy Fences</b> <small>(32 31 23 00-0030)</small>		
32 31 23 00-0032    EA    3' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	642.56	63.51
	14.50	
	38.50	
32 31 23 00-0033    EA    3' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	681.78	66.69
	14.50	
	38.50	
32 31 23 00-0034    EA    3' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i>	747.90	69.87
	14.50	
	38.50	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0035 EA 3' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	837.94	73.04
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
<b>32 31 23 00-0036 4' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)</b>		
32 31 23 00-0037 EA 4' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	681.78	66.69
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0038 EA 4' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	706.06	69.87
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0039 EA 4' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	784.14	73.04
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0040 EA 4' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	918.99	76.22
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
<b>32 31 23 00-0041 5' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)</b>		
32 31 23 00-0042 EA 5' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	706.06	69.87
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0043 EA 5' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	736.33	73.04
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0044 EA 5' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	844.28	76.22
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0045 EA 5' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	985.11	79.40
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
<b>32 31 23 00-0046 6' High Gates For Privacy And Semi-Privacy Fences (32 31 23 00-0030)</b>		
32 31 23 00-0047 EA 6' High x 3' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	742.67	76.22
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0048 EA 6' High x 4' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	772.93	79.40
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0049 EA 6' High x 5' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	931.70	82.57
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0050 EA 6' High x 6' Wide Vinyl Gate For Privacy Or Semi-Privacy Fence And Hinge Set.....	1,027.71	82.57
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
<b>32 31 23 00-0051 Gates For Picket Fences (32 31 23 00-0029)</b>		
Note: Includes hinges.		
<b>32 31 23 00-0052 3' High Gates For Picket Fences (32 31 23 00-0051)</b>		
32 31 23 00-0053 EA 3' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	615.66	63.51
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0054 EA 3' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	639.94	66.69
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0055 EA 3' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	718.01	69.87
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0056 EA 3' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	852.88	73.04
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
<b>32 31 23 00-0057 4' High Gates For Picket Fences (32 31 23 00-0051)</b>		
32 31 23 00-0058 EA 4' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	622.01	66.69
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0059 EA 4' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	646.29	69.87
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0060 EA 4' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	724.37	73.04
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
32 31 23 00-0061 EA 4' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set.....	859.22	76.22
For Self-Closing Hinge Set, Add	14.50	
For Self-Closing Stainless Steel Hinge Set, Add	38.50	
<b>32 31 23 00-0062 5' High Gates For Picket Fences (32 31 23 00-0051)</b>		





		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 23 00-0063 EA 5' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	646.29 14.50 38.50	69.87
32 31 23 00-0064 EA 5' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	676.56 14.50 38.50	73.04
32 31 23 00-0065 EA 5' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	784.51 14.50 38.50	76.22
32 31 23 00-0066 EA 5' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	925.34 14.50 38.50	79.40
<b>32 31 23 00-0067 6' High Gates For Picket Fences</b> (32 31 23 00-0051)		
32 31 23 00-0068 EA 6' High x 3' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	682.90 14.50 38.50	76.22
32 31 23 00-0069 EA 6' High x 4' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	713.16 14.50 38.50	79.40
32 31 23 00-0070 EA 6' High x 5' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	871.93 14.50 38.50	82.57
32 31 23 00-0071 EA 6' High x 6' Wide Vinyl Gate For Picket Style Fence And Hinge Set..... <i>For Self-Closing Hinge Set, Add</i> <i>For Self-Closing Stainless Steel Hinge Set, Add</i>	967.94 14.50 38.50	85.75
<b>32 31 23 00-0072 Gates Accessories</b> (32 31 23 00-0029)		
32 31 23 00-0073 EA Gate Stop/Drop Rod .....	139.34	
32 31 23 00-0074 EA Latch Set .....	96.00	
32 31 23 00-0075 EA Stainless Steel Latch Set.....	139.34	
<b>32 31 26 Wire Fences and Gates</b> (32 31)		
<b>32 31 26 13 Wire Fences with Steel Posts</b> (32 31 26)		
<b>32 31 26 13-0001 Chicken Wire</b> (32 31 26 13) Note: Posts at 4'.		
32 31 26 13-0002 LF 4' High, 1" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	8.24	1.70
32 31 26 13-0003 LF 6' High, 2" Mesh, Chicken Wire Fence, Metal Posts At 4'.....	8.95	1.70
<b>32 31 26 13-0004 Wire And Screen</b> (32 31 26 13)		
<b>32 31 26 13-0005 Wire And Screen For Partitions And Fences</b> (32 31 26 13-0004) Note: Excludes framing and post.		
<b>32 31 26 13-0006 Screen Wire</b> (32 31 26 13-0005)		
32 31 26 13-0007 LF Screen Wire, 48" Wide Rolls.....	14.74	1.28
<b>32 31 26 13-0008 Hog Wire</b> (32 31 26 13-0005)		
32 31 26 13-0009 SF 4" x 4" Hog Wire For Fencing .....	2.60	1.02
32 31 26 13-0010 SF 6" x 6" Hog Wire For Fencing .....	2.72	1.15
<b>32 31 26 13-0011 Non-Climb Horse Fence</b> (32 31 26 13-0005)		
32 31 26 13-0012 LF 4' Non-Climb Woven, 12.5 Gauge, Horse Fence .....	11.72	4.09
32 31 26 13-0013 LF 5' Non-Climb Woven, 12.5 Gauge, Horse Fence .....	15.01	5.11
32 31 26 13-0014 LF 6' Non-Climb Woven, 12.5 Gauge, Horse Fence .....	18.83	6.14
<b>32 31 26 13-0015 Screen For Partitions And Ceilings</b> (32 31 26 13-0004) Note: Can be used to support insulation on walls and ceilings.		
32 31 26 13-0016 SF 1" Mesh Chicken Wire .....	2.46	0.72
<b>32 31 26 13-0017 Wicket Fence</b> (32 31 26 13)		
32 31 26 13-0018 LF Steel Wicket Fence, Painted.....	83.56	5.44
<b>32 31 29 Wood Fences and Gates</b> (32 31) See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
<b>32 31 29 00-0001 Basket Weave</b> (32 31 29) Note: 3/8" x 4" boards, 4" x 4" post		
32 31 29 00-0002 LF 6' High #1 Cedar Basket Weave Fence 3/8" x 4" Boards, 4" x 4" Post..... <i>For Fastening With Screws Instead Of Nails, Add</i>	41.64 2.44	3.39
32 31 29 00-0003 LF 6' High, Pressure Treated Pine Basket Weave 3/8" x 4" Boards, 4" x 4" Post..... <i>For Fastening With Screws Instead Of Nails, Add</i>	27.36 1.75	3.39

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>32 31 29 00-0004 Board Fence</b> <small>(32 31 29)</small> Note: 1x4" board, 2x4" rail, 4x4" post.		
32 31 29 00-0005 LF Two 2" x 4" Rails, 3' High 1" x 4" Boards, Preservative Treated Board Fence.....	26.74	3.39
For 1" x 6" Boards, Deduct	-2.79	
For 1" x 3" Boards (Stockade Top), Add	3.46	
For Fastening With Screws Instead Of Nails, Add	1.73	
32 31 29 00-0006 LF Two 2" x 4" Rails, 4' High 1" x 4" Boards, Preservative Treated Board Fence.....	29.78	3.39
For 1" x 6" Boards, Deduct	-3.04	
For 1" x 3" Boards (Stockade Top), Add	3.75	
For Fastening With Screws Instead Of Nails, Add	1.91	
32 31 29 00-0007 LF Three 2" x 4" Rails, 5' High 1" x 4" Boards, Preservative Treated Board Fence.....	33.30	3.39
For 1" x 6" Boards, Deduct	-3.25	
For 1" x 3" Boards (Stockade Top), Add	3.96	
For Fastening With Screws Instead Of Nails, Add	2.10	
32 31 29 00-0008 LF Three 2" x 4" Rails, 6' High 1" x 4" Boards, Preservative Treated Board Fence.....	35.57	3.39
For 1" x 6" Boards, Deduct	-3.42	
For 1" x 3" Boards (Stockade Top), Add	4.15	
For Fastening With Screws Instead Of Nails, Add	2.23	
32 31 29 00-0009 LF Three 2" x 4" Rails, 8' High 1" x 4" Boards, Preservative Treated Board Fence.....	38.03	3.39
For 1" x 6" Boards, Deduct	-3.59	
For 1" x 3" Boards (Stockade Top), Add	4.34	
For Fastening With Screws Instead Of Nails, Add	2.37	
32 31 29 00-0010 LF Two 2" x 4" Rails, 3' High 1" x 4" #2 Grade Western Cedar Board Fence.....	28.61	3.39
For 1" x 6" Boards, Deduct	-2.86	
For 1" x 3" Boards (Stockade Top), Add	3.51	
For Fastening With Screws Instead Of Nails, Add	1.82	
32 31 29 00-0011 LF Two 2" x 4" Rails, 4' High 1" x 4" #2 Grade Western Cedar Board Fence.....	31.22	3.39
For 1" x 6" Boards, Deduct	-3.09	
For 1" x 3" Boards (Stockade Top), Add	3.79	
For Fastening With Screws Instead Of Nails, Add	1.98	
32 31 29 00-0012 LF Three 2" x 4" Rails, 5' High 1" x 4" #2 Grade Western Cedar Board Fence.....	33.30	3.39
For 1" x 6" Boards, Deduct	-3.25	
For 1" x 3" Boards (Stockade Top), Add	3.96	
For Fastening With Screws Instead Of Nails, Add	2.10	
32 31 29 00-0013 LF Three 2" x 4" Rails, 6' High 1" x 4" #2 Grade Western Cedar Board Fence.....	35.57	3.39
For 1" x 6" Boards, Deduct	-3.42	
For 1" x 3" Boards (Stockade Top), Add	4.15	
For Fastening With Screws Instead Of Nails, Add	2.23	
32 31 29 00-0014 LF Three 2" x 4" Rails, 8' High 1" x 4" #2 Grade Western Cedar Board Fence.....	38.03	3.39
For 1" x 6" Boards, Deduct	-3.59	
For 1" x 3" Boards (Stockade Top), Add	4.34	
For Fastening With Screws Instead Of Nails, Add	2.37	
32 31 29 00-0015 LF Two 2" x 4" Rails, 3' High 1" x 4" #1 Grade Cedar Board Fence.....	28.62	3.39
For 1" x 6" Boards, Deduct	-2.86	
For 1" x 3" Boards (Stockade Top), Add	3.51	
For Fastening With Screws Instead Of Nails, Add	1.82	
32 31 29 00-0016 LF Two 2" x 4" Rails, 4' High 1" x 4" #1 Grade Cedar Board Fence.....	37.63	3.39
For 1" x 6" Boards, Deduct	-3.35	
For 1" x 3" Boards (Stockade Top), Add	3.98	
For Fastening With Screws Instead Of Nails, Add	2.30	
32 31 29 00-0017 LF Three 2" x 4" Rails, 5' High 1" x 4" #1 Grade Cedar Board Fence.....	39.44	3.39
For 1" x 6" Boards, Deduct	-3.49	
For 1" x 3" Boards (Stockade Top), Add	4.15	
For Fastening With Screws Instead Of Nails, Add	2.41	
32 31 29 00-0018 LF Three 2" x 4" Rails, 6' High 1" x 4" #1 Grade Cedar Board Fence.....	42.44	3.39
For 1" x 6" Boards, Deduct	-3.69	
For 1" x 3" Boards (Stockade Top), Add	4.36	
For Fastening With Screws Instead Of Nails, Add	2.58	
32 31 29 00-0019 LF Three 2" x 4" Rails, 8' High 1" x 4" #1 Grade Cedar Board Fence.....	45.68	3.39
For 1" x 6" Boards, Deduct	-3.90	
For 1" x 3" Boards (Stockade Top), Add	4.57	
For Fastening With Screws Instead Of Nails, Add	2.75	
<b>32 31 29 00-0020 Shadow Box</b> <small>(32 31 29)</small> Note: 1x6" board, 2x4" Rail, 4x4" post.		
32 31 29 00-0021 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 6" Pressure Treated Pine.....	57.94	3.39
For Fastening With Screws Instead Of Nails, Add	3.25	
32 31 29 00-0022 LF Shadow Box, 3 - 2" x 4" Rails, 4' High 1" x 4" #1 Cedar.....	72.84	3.39
For Fastening With Screws Instead Of Nails, Add	4.06	
32 31 29 00-0023 LF Shadow Box, 3 - 2" x 4" Rails, 6' High 1" x 4" #1 Cedar.....	79.39	3.39
For Fastening With Screws Instead Of Nails, Add	4.41	
32 31 29 00-0024 LF Shadow Box, 3 - 2" x 4" Rails, 8' High 1" x 4" #1 Cedar.....	85.30	3.39
For Fastening With Screws Instead Of Nails, Add	4.73	
<b>32 31 29 00-0025 Open Rail Fence</b> <small>(32 31 29)</small>		
<b>32 31 29 00-0026 Post And Rail Fence, Ranch Style</b> <small>(32 31 29 00-0025)</small>		
32 31 29 00-0027 LF Post And Rail Fence, 2 Rails, 3' High #1 Cedar.....	26.80	3.39
32 31 29 00-0028 LF Post And Rail Fence, 2 Rails, 3' High #2 Cedar.....	20.84	3.39
32 31 29 00-0029 LF Post And Rail Fence, 3 Rails, 4' High #1 Cedar.....	31.80	3.39
32 31 29 00-0030 LF Post And Rail Fence, 3 Rails, 4' High #2 Cedar.....	22.53	3.39



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Fences and Gates	32 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>32 31 29 00-0031</b>			<b>Split Rail Fence</b> <small>(32 31 29 00-0025)</small>		
32 31 29 00-0032	LF		Split Rail Fence, 2 Rails, 3' High #1 Cedar .....	25.27	3.39
32 31 29 00-0033	LF		Split Rail Fence, 2 Rails, 3' High #2 Cedar .....	20.78	3.39
32 31 29 00-0034	LF		Split Rail Fence, 3 Rail, 4' High #1 Cedar .....	28.88	3.39
32 31 29 00-0035	LF		Split Rail Fence, 3 Rail, 4' High #2 Cedar .....	23.39	3.39

<b>32 31 29 00-0036</b>			<b>Picket Fence</b> <small>(32 31 29)</small>		
32 31 29 00-0037	LF		Picket Fence, 2 Rail, 3' High, Pressure Treated <i>For Fastening With Screws Instead Of Nails, Add</i> .....	30.63	3.39
				1.94	
32 31 29 00-0038	LF		Picket Fence, 2 Rail, 3' High #1 Cedar <i>For Fastening With Screws Instead Of Nails, Add</i> .....	28.58	3.39
				1.83	

<b>32 31 29 00-0039</b>			<b>Wood Fence Post Accessories</b> <small>(32 31 29)</small>		
32 31 29 00-0040	EA		3-1/2" x 3-1/2" Copper, Pyramid Slip Over, Wood Fence Post Cap .....	44.49	
32 31 29 00-0041	EA		4" x 4" Copper, Pyramid Slip Over, Wood Fence Post Cap .....	50.09	
32 31 29 00-0042	EA		6" x 6" Copper, Pyramid Slip Over, Wood Fence Post Cap .....	54.50	
32 31 29 00-0043	EA		8" x 8" Copper, Pyramid Slip Over, Wood Fence Post Cap .....	81.30	

<b>32 31 29 00-0044</b>			<b>Wood Gate</b> <small>(32 31 29)</small>		
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<b>32 31 29 00-0045</b>			<b>Board Fence Gates, Pressure Treated Wood</b> <small>(32 31 29 00-0044)</small>		
			Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (treated lumber).		
32 31 29 00-0046	EA		3' To 5' High x 3' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	446.57	142.03
32 31 29 00-0047	EA		3' To 5' High x 3'-6" Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	492.88	150.56
32 31 29 00-0048	EA		3' To 5' High x 4' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	550.53	164.76
32 31 29 00-0049	EA		3' To 5' High x 5' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	622.83	173.28
32 31 29 00-0050	EA		3' To 5' High x 6' Wide, Pressure Treated Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	695.12	181.81
32 31 29 00-0051	EA		>5' To 8' High x 3' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	569.98	187.49
32 31 29 00-0052	EA		>5' To 8' High x 3'-6" Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	619.53	196.01
32 31 29 00-0053	EA		>5' To 8' High x 4' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	669.07	204.53
32 31 29 00-0054	EA		>5' To 8' High x 5' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	751.11	213.05
32 31 29 00-0055	EA		>5' To 8' High x 6' Wide, Pressure Treated Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	816.91	221.58

<b>32 31 29 00-0056</b>			<b>Board Fence Gates, Grade 2 Cedar</b> <small>(32 31 29 00-0044)</small>		
			Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0057	EA		3' To 5' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	650.72	105.98
32 31 29 00-0058	EA		3' To 5' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	673.18	112.34
32 31 29 00-0059	EA		3' To 5' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	707.38	122.94
32 31 29 00-0060	EA		3' To 5' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	746.11	129.29
32 31 29 00-0061	EA		3' To 5' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	794.57	135.66
32 31 29 00-0062	EA		>5' To 8' High x 3' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	767.30	139.89
32 31 29 00-0063	EA		>5' To 8' High x 3'-6" Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	796.27	146.26
32 31 29 00-0064	EA		>5' To 8' High x 4' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	841.49	152.61
32 31 29 00-0065	EA		>5' To 8' High x 5' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	886.70	158.97
32 31 29 00-0066	EA		>5' To 8' High x 6' Wide, #2 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	931.93	165.33

<b>32 31 29 00-0067</b>			<b>Board Fence Gates, Grade 1 Cedar</b> <small>(32 31 29 00-0044)</small>		
			Note: Includes galvanized extra duty hinges (1-1/2 butts per leaf), a galvanized latch and extra heavy-duty wheels per leaf, based on 2x4 frame, 1x4 cover, galvanized nails and hinges (cedar lumber)		
32 31 29 00-0068	EA		3' To 5' High x 3' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	699.48	105.98
32 31 29 00-0069	EA		3' To 5' High x 3'-6" Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	728.44	112.34
32 31 29 00-0070	EA		3' To 5' High x 4' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	765.89	122.94
32 31 29 00-0071	EA		3' To 5' High x 5' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	811.11	129.29
32 31 29 00-0072	EA		3' To 5' High x 6' Wide, #1 Cedar Board Gate, 2 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	856.32	135.66
32 31 29 00-0073	EA		>5' To 8' High x 3' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	832.30	139.89
32 31 29 00-0074	EA		>5' To 8' High x 3'-6" Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	861.27	146.26
32 31 29 00-0075	EA		>5' To 8' High x 4' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	906.49	152.61
32 31 29 00-0076	EA		>5' To 8' High x 5' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	951.70	158.97
32 31 29 00-0077	EA		>5' To 8' High x 6' Wide, #1 Cedar Board Gate, 3 - 2" x 4" Rails With 1" x 4" Board, Post And Hardware .....	1,013.18	165.33

<b>32 31 29 00-0078</b>			<b>Pressure Treated Wood Fence Posts</b> <small>(32 31 29)</small>		
			See CSI section 32 31 13 13-0001 for drilling augering, 32 31 13 13-0665 for barbed wire, 32 31 56 00-0017 for barbed wire.		
32 31 29 00-0079	EA		4' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill .....	42.61	14.21
32 31 29 00-0080	EA		6' High, Pressure Treated Wood Fence Posts, Set In Soil, Earth Fill .....	47.75	14.21
32 31 29 00-0081	EA		4' High, Pressure Treated Wood Fence Posts, Set In Concrete .....	75.34	27.27
32 31 29 00-0082	EA		6' High, Pressure Treated Wood Fence Posts, Set In Concrete .....	81.19	27.27

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
32 31 29 00-0083		<b>Wood Utility Pole Fence</b> <small>(32 31 29)</small>			
		Note: Excludes post holes. See CSI section 32 31 13 13-0001 for drilling augering and backfill.			
32 31 29 00-0084	LF	Wood Utility Pole Barrier Fence.....	52.23		3.39
		Note: Includes notching post, drilling and pinned with #5 rebar.			
32 31 29 00-0085		<b>Wood Rail Fence</b> <small>(32 31 29)</small>			
		Note: 3" diameter treated lodgepole pine rails, 6" diameter treated lodgepole pine post. Posts at 8' centers. Excludes post holes and fill			
32 31 29 00-0086	LF	4' Above Ground Wood Rail Fence, 3 - 3" Diameter Treated Lodgepole Pine Rails, 6" Diameter, 6' Overall Treated Lodgepole Pine Post.....	26.91		3.39
<b>32 31 34</b>		<b>Tubular Barrier Gates</b> <small>(32 31)</small>			
32 31 34 00-0001		<b>Tube Gate</b> <small>(32 31 34)</small>			
		See CSI section 32 31 13 13-0001 for augering post holes and concrete fill, 32 31 13 13-0642 for gate accessories.			
32 31 34 00-0002		<b>50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate</b> <small>(32 31 34 00-0001)</small>			
		Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering, concrete, bollard and chain.			
32 31 34 00-0003	EA	4' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate.....	201.39		26.35
		For 13 Gauge Tubing, Add	32.47		
		For Galvanized Finish, Add	18.50		
32 31 34 00-0004	EA	6' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate.....	261.76		34.16
		For 13 Gauge Tubing, Add	42.11		
		For Galvanized Finish, Add	23.89		
32 31 34 00-0005	EA	8' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate.....	353.20		43.92
		For 13 Gauge Tubing, Add	57.47		
		For Galvanized Finish, Add	33.22		
32 31 34 00-0006	EA	10' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate.....	407.33		54.64
		For 13 Gauge Tubing, Add	64.88		
		For Galvanized Finish, Add	36.21		
32 31 34 00-0007	EA	12' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate.....	483.23		65.00
		For 13 Gauge Tubing, Add	77.13		
		For Galvanized Finish, Add	43.21		
32 31 34 00-0008	EA	14' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate.....	527.60		73.19
		For 13 Gauge Tubing, Add	83.56		
		For Galvanized Finish, Add	46.20		
32 31 34 00-0009	EA	16' Wide, 50" Height, 2" Diameter 16 Gauge Powder Coated Tubing, Six Rail Tube Gate.....	619.48		84.41
		For 13 Gauge Tubing, Add	98.52		
		For Galvanized Finish, Add	54.86		
32 31 34 00-0010		<b>33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate</b> <small>(32 31 34 00-0001)</small>			
		Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.			
32 31 34 00-0011	EA	4' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	263.20		26.35
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	74.05		
32 31 34 00-0012	EA	6' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	314.93		34.16
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	84.98		
32 31 34 00-0013	EA	8' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	376.34		43.92
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	97.84		
32 31 34 00-0014	EA	10' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	433.68		54.64
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	107.11		
32 31 34 00-0015	EA	12' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	491.86		65.00
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	118.67		
32 31 34 00-0016	EA	14' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	544.88		73.19
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	130.12		
32 31 34 00-0017	EA	16' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	608.66		84.41
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	141.97		
32 31 34 00-0018	EA	18' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	699.34		95.01
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	164.58		
32 31 34 00-0019	EA	20' Wide, 33" Height, 1-3/4" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	779.10		106.28
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	194.54		
32 31 34 00-0020		<b>33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate</b> <small>(32 31 34 00-0001)</small>			
		Note: Round top edges. Includes lag bolt hinges, lock plate and hardware. Excludes augering and concrete.			
32 31 34 00-0021	EA	4' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	284.88		26.35
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	82.72		
32 31 34 00-0022	EA	6' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	336.25		34.16
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	93.51		
32 31 34 00-0023	EA	8' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	390.79		43.92
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	103.62		
32 31 34 00-0024	EA	10' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	454.77		54.64
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	115.55		
32 31 34 00-0025	EA	12' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate.....	507.10		65.00
		For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add	124.77		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 34 00-0026 EA 14' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	580.47 144.36	73.19
32 31 34 00-0027 EA 16' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	647.30 157.43	84.41
32 31 34 00-0028 EA 18' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	758.30 188.17	95.01
32 31 34 00-0029 EA 20' Wide, 33" Height, 2" Diameter 16 Gauge Galvanized Steel Tubing, Six Rail Tube Gate ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	832.12 215.74	106.28
<b>32 31 34 00-0030 Tubular Steel Barrier Gate (Triangular Shape)</b> <small>(32 31 34 00-0001)</small> Note: Includes posts, caps, welded hinges and lock keeper. Excludes augering, concrete, and bollards.		
32 31 34 00-0031 EA 4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,243.19 742.42	54.64
32 31 34 00-0032 EA 4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,432.55 796.05	65.00
32 31 34 00-0033 EA 4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 3" Diameter Post ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,882.82 956.64	73.19
32 31 34 00-0034 EA 4' High x 10' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,328.66 776.30	54.64
32 31 34 00-0035 EA 4' High x 12' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,530.24 834.76	65.00
32 31 34 00-0036 EA 4' High x 14' Wide Opening Tubular Galvanized Steel Barrier Gate With 4" Diameter Post ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	2,980.49 995.34	73.19
<b>32 31 34 00-0037 Four Rail Tube Gate, 1-1/2" Diameter Welded Galvanized Steel Tubing</b> <small>(32 31 34 00-0001)</small> Note: Excludes augering holes and concrete.		
32 31 34 00-0038 EA 4' Four Rail Metal Frame Tube Gate, 1-1/2" Diameter Welded Galvanized Steel With Posts ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	451.70 40.15	26.35
<b>32 31 34 00-0039 Tubular Horse Gate</b> <small>(32 31 34 00-0001)</small> Note: Includes posts, caps and hardware. Treated with Natina (or Equal) galvanized surface stain "rustic brown finish". Excludes augering holes and concrete.		
32 31 34 00-0040 EA 5-1/2' Above Ground, 5' Wide Tubular Galvanized Steel Horse Gate With 3" Diameter Posts ..... <i>For Natina (or Equal) Galvanized Surface Stain "Rustic Brown Finish", Add</i>	4,006.92 1,231.94	26.35
<b>32 31 34 00-0041 Pipe Gate</b> <small>(32 31 34)</small> Note: Excludes augering and concrete. See CSI section 32 31 13 13-0001 for augering post holes and concrete fill.		
32 31 34 00-0042 EA 20' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier) .....	4,066.06	
32 31 34 00-0043 EA 25' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier) .....	5,088.30	
32 31 34 00-0044 EA 30' Galvanized Steel Pipe Gate, Swinging (Road Access Barrier) .....	6,065.71	
<b>32 31 41 Precast Concrete Fences</b> <small>(32 31)</small>		
<b>32 31 41 00-0001 Precast Post And Rail Fence, Ranch Style, With Integral Color Concrete.</b> <small>(32 31 41)</small> Note: Includes post holes, fill, spreading of excess material on site. See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
32 31 41 00-0002 LF Precast Post And Rail Fence With Integral Color Concrete, 2 Rails, 3' Above Ground With 2' Bury ..... Note: Includes 12" diameter holes with concrete fill for line posts and 18" diameter holes with concrete fill at corners.	68.53	3.39
<b>32 31 56 Wild Life Deterrent Fence</b> <small>(32 31)</small>		
<b>32 31 56 00-0001 Barbed Wire Fences</b> <small>(32 31 56)</small> Note: Excludes post holes and fill See CSI section 32 31 13 13-0001 for drilling for augering holes and backfill.		
<b>32 31 56 00-0002 Fence Posts</b> <small>(32 31 56 00-0001)</small>		
<b>32 31 56 00-0003 Fence Post Soil, Set In Concrete</b> <small>(32 31 56 00-0002)</small>		
32 31 56 00-0004 EA Barbed Wire Fence Post, Galvanized Set In Concrete In Soil ..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	101.99 164.79	7.81
32 31 56 00-0005 EA Barbed Wire Fence Post, Vinyl Coated Set In Concrete In Soil ..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	138.12 225.13	7.81
<b>32 31 56 00-0006 Post In Rock</b> <small>(32 31 56 00-0002)</small>		
32 31 56 00-0007 EA Barbed Wire Fence Post, Galvanized Grouted In Rock ..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	100.28 162.23	7.81
32 31 56 00-0008 EA Barbed Wire Fence Post, Vinyl Coated Grouted In Rock ..... <i>For Bracing On Corner Post, End Post And Pull Post, Add</i>	136.41 222.57	7.81
<b>32 31 56 00-0009 Studded Steel T-Posts, Enamel Paint Finish</b> <small>(32 31 56 00-0001)</small> Note: Posts for barb wire, chain link or welded wire mesh.		
32 31 56 00-0010 EA 5' Studded Steel T-Post, Driven Into Earth .....	25.37	
32 31 56 00-0011 EA 5'-6" Studded Steel T-Post, Driven Into Earth .....	25.99	
32 31 56 00-0012 EA 6' Studded Steel T-Post, Driven Into Earth .....	27.21	

**32 Exterior Improvements****32 30 Site Improvements****32 31 Fences and Gates**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 31 56 00-0013 EA 6'-6" Studded Steel T-Post, Driven Into Earth.....	28.43	
32 31 56 00-0014 EA 7' Studded Steel T-Post, Driven Into Earth.....	30.07	
32 31 56 00-0015 EA 8' Studded Steel T-Post, Driven Into Earth.....	33.97	
32 31 56 00-0016 EA 10' Studded Steel T-Post, Driven Into Earth.....	41.68	
<b>32 31 56 00-0017 Barbed Wire</b> (32 31 56 00-0001) Note: Per strand.		
32 31 56 00-0018 LF Galvanized Barbed Wire For Wild Life Deterrent Fencing, Per Strand.....	0.87	0.39
32 31 56 00-0019 LF Vinyl Coated Barbed Wire, For Wild Life Deterrent Fencing, Per Strand.....	1.01	0.39
<b>32 31 56 00-0020 Barbed Wire Fence, Farm Style, With Wood Posts</b> (32 31 56 00-0001) Note: Based on post at 10' centers, two corner post and two pull post per 300 lf.		
32 31 56 00-0021 LF 4'-6" Height, Three (3) Strand Barbed Wire Fence With Wood Posts.....	11.66	2.54
Note: Posts at 10' maximum.		
<b>32 32 Retaining Walls</b> (32 30)		
<b>32 32 13 Cast-In-Place Concrete Retaining Wall</b> (32 32)		
Note: System includes all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
<b>32 32 13 00-0001 Concrete Retaining Walls</b> (32 32 13) Note: System elements include all necessary forms (4 uses), 3000 PSI concrete with an 8" chute, all necessary reinforcing steel, and underdrain. Exposed concrete is patched and rubbed. Excludes initial site grading, subbase preparation or finish grading.		
32 32 13 00-0002 LF 4' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	407.41	134.62
For >3:1 Sloped Soil At Top, Add	11.75	
32 32 13 00-0003 LF 6' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	509.92	165.65
For >3:1 Sloped Soil At Top, Add	15.17	
32 32 13 00-0004 LF 8' High With Base, 10" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	556.86	178.68
For >3:1 Sloped Soil At Top, Add	16.96	
32 32 13 00-0005 LF 10' High With Base, 13" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	714.64	220.94
For >3:1 Sloped Soil At Top, Add	23.19	
32 32 13 00-0006 LF 12' High With Base, 14" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	824.20	253.78
For >3:1 Sloped Soil At Top, Add	26.91	
32 32 13 00-0007 LF 16' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	1,188.37	372.29
For >3:1 Sloped Soil At Top, Add	37.73	
32 32 13 00-0008 LF 20' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	1,629.02	513.98
For >3:1 Sloped Soil At Top, Add	51.08	
32 32 13 00-0009 LF 4' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	448.38	147.02
For >3:1 Sloped Soil At Top, Add	13.12	
32 32 13 00-0010 LF 6' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	551.08	177.15
For >3:1 Sloped Soil At Top, Add	16.73	
32 32 13 00-0011 LF 8' High With Base, 12" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	585.63	184.84
For >3:1 Sloped Soil At Top, Add	18.36	
32 32 13 00-0012 LF 10' High With Base, 16" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	810.76	247.71
For >3:1 Sloped Soil At Top, Add	26.79	
32 32 13 00-0013 LF 12' High With Base, 18" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	1,024.83	318.19
For >3:1 Sloped Soil At Top, Add	33.02	
32 32 13 00-0014 LF 16' High With Base, 21" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	1,532.67	482.31
For >3:1 Sloped Soil At Top, Add	48.29	
32 32 13 00-0015 LF 20' High With Base, 24" Thick, Reinforced, Cast-In-Place Concrete Retaining Wall.....	2,162.93	680.81
For >3:1 Sloped Soil At Top, Add	68.11	
<b>32 32 16 Precast Concrete Retaining Walls</b> (32 32)		
<b>32 32 16 00-0001 Precast Retaining Walls</b> (32 32 16) Note: Tied-back earth walls. Includes precast filter fabric, soil reinforcing mesh and cast-in-place coping. Excludes concrete leveling pad, or select earth excavation and backfill.		
32 32 16 00-0002 SF 10-15' High, Tied-back, Precast Concrete Retaining Walls.....	96.89	14.36
32 32 16 00-0003 SF 16-20' High, Tied-back, Precast Concrete Retaining Walls.....	99.40	11.54
32 32 16 00-0004 SF 21-25' High, Tied-back, Precast Concrete Retaining Walls.....	103.01	9.62
32 32 16 00-0005 SF 26-30' High, Tied-back, Precast Concrete Retaining Walls.....	111.36	9.62
32 32 16 00-0006 SF >30' High, Tied-back, Precast Concrete Retaining Walls.....	117.76	8.20
<b>32 32 23 Segmental Retaining Walls</b> (32 32)		
<b>32 32 23 13 Segmental Concrete Unit Masonry Retaining Walls</b> (32 32 23)		
<b>32 32 23 13-0001 Modular Retaining Wall Systems</b> (32 32 23 13) Note: Includes installation, material and manufacturer's wall design. Includes stone wall, cap stones, #57 stone backing, Geo-Grid (2/3 height of wall), miradrain and fill with earth, and compaction. Includes cap at top, pins, and installation. Excludes initial site grading, subbase preparation or finish grading.		
<b>32 32 23 13-0002 "Amastone" Type Modular Retaining Wall Systems</b> (32 32 23 13-0001)		
32 32 23 13-0003 SF Up To 4' Height "Amastone" Type Modular Retaining Wall System.....	66.99	9.05
For >3:1 Sloped Soil At Top, Add	4.16	
32 32 23 13-0004 SF 4 To 8' Height "Amastone" Type Modular Retaining Wall System.....	70.67	9.52
For >3:1 Sloped Soil At Top, Add	4.39	



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 23 13-0005	SF		8 To 12' Height "Amastone" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	73.75 4.49	10.47
32 32 23 13-0006	SF		12 To 16' Height "Amastone" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	77.00 4.60	11.43
<b>32 32 23 13-0007 "Diamond" Type Modular Retaining Wall Systems (32 32 23 13-0001)</b>					
32 32 23 13-0008	SF		Up To 4' Height "Diamond" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	69.55 4.37	9.05
32 32 23 13-0009	SF		4 To 8' Height "Diamond" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	73.23 4.61	9.52
32 32 23 13-0010	SF		8 To 12' Height "Diamond" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	76.31 4.71	10.47
32 32 23 13-0011	SF		12 To 16' Height "Diamond" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	79.55 4.82	11.43
<b>32 32 23 13-0012 "Keystone" Type Modular Retaining Wall Systems (32 32 23 13-0001)</b>					
32 32 23 13-0013	SF		Up To 4' Height "Keystone" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	75.66 4.89	9.05
32 32 23 13-0014	SF		4 To 8' Height "Keystone" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	79.34 5.13	9.52
32 32 23 13-0015	SF		8 To 12' Height "Keystone" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	82.42 5.22	10.47
32 32 23 13-0016	SF		12 To 16' Height "Keystone" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	85.66 5.34	11.43
<b>32 32 23 13-0017 "Cribblock" Type Modular Retaining Wall Systems (32 32 23 13-0001)</b>					
32 32 23 13-0018	SF		Up To 4' Height "Cribblock" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	66.99 4.16 0.25	9.05
32 32 23 13-0019	SF		4 To 8' Height "Cribblock" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	70.67 4.39 0.25	9.52
32 32 23 13-0020	SF		8 To 12' Height "Cribblock" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	73.75 4.49 0.25	10.47
32 32 23 13-0021	SF		12 To 16' Height "Cribblock" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i> <i>For Gravel Backfill Instead Of Earth, Add</i>	77.00 4.60 0.25	11.43
<b>32 32 23 13-0022 "Versa-Lok" Type Modular Retaining Wall Systems (32 32 23 13-0001)</b>					
32 32 23 13-0023	SF		Up To 4' Height "Versa-Lok" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	59.24 3.50	9.05
32 32 23 13-0024	SF		4 To 8' Height "Versa-Lok" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	65.48 3.95	9.52
32 32 23 13-0025	SF		8 To 12' Height "Versa-Lok" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	68.60 4.05	10.47
32 32 23 13-0026	SF		12 To 16' Height "Versa-Lok" Type Modular Retaining Wall System ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	71.36 4.12	11.43
<b>32 32 23 13-0027 Retaining Wall Cap Block Restoration (32 32 23 13-0001)</b>					
Note: Includes removal of existing cap block and installation of new cap block to match.					
32 32 23 13-0028	LF		Removal And Reinstall Retaining Wall Cap Block And Pins ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	33.13 1.64	
<b>32 32 26 Metal Crib Retaining Walls (32 32)</b>					
<b>32 32 26 00-0001 Bin Type Retaining Wall (32 32 26)</b>					
<b>32 32 26 00-0002 Vertical Bin Walls (32 32 26 00-0001)</b>					
Note: Excludes excavation and backfill.					
32 32 26 00-0003	SF		5.5' Vertical Bin Retaining Wall, Wall Heights To 11' .....	74.81	
32 32 26 00-0004	SF		7.7' Vertical Bin Retaining Wall, Wall Heights, 8.33' To 16.33' .....	88.70	
32 32 26 00-0005	SF		9.9' Vertical Bin Retaining Wall, Wall Heights, 13.67' To 21.67' .....	103.35	
32 32 26 00-0006	SF		12.1' Vertical Bin Retain Wall, Wall Heights 17.67' To 25.67' .....	111.69	
32 32 26 00-0007	SF		14.3' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33' .....	124.74	
32 32 26 00-0008	SF		16.5' Vertical Bin Retain Wall, Wall Heights 20.33' To 28.33' .....	133.08	
<b>32 32 26 00-0009 Battered Bin Walls (32 32 26 00-0001)</b>					
Note: Excludes excavation and backfill.					
32 32 26 00-0010	SF		5.5' Battered Bin Retain Wall, Wall Heights To 11' .....	66.45	
32 32 26 00-0011	SF		7.7' Battered Bin Retain Wall, Wall Heights 8.33' To 16.33' .....	72.00	
32 32 26 00-0012	SF		9.9' Battered Bin Retain Wall, Wall Heights 13.67' To 21.67' .....	81.00	
32 32 26 00-0013	SF		12.1' Battered Bin Retain Wall, Wall Heights 17.67' To 25.67' .....	90.72	
32 32 26 00-0014	SF		14.3' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33' .....	106.20	
32 32 26 00-0015	SF		16.5' Battered Bin Retain Wall, Wall Heights 20.33' To 28.33' .....	108.97	

**32 Exterior Improvements****32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 26 00-0016		<b>Aluminized Steel Bin</b> <small>(32 32 26)</small> Note: Excludes excavation and backfill.		
32 32 26 00-0017	SF	4' High, 5.5' Deep Aluminized Steel Bin.....	50.24	5.09
		For >3:1 Sloped Soil At Top, Add	3.41	
		For Galvanized Type, Deduct	-4.01	
32 32 26 00-0018	SF	8' High, 5.5' Deep Aluminized Steel Bin.....	56.43	5.09
		For >3:1 Sloped Soil At Top, Add	3.92	
		For Galvanized Type, Deduct	-4.62	
32 32 26 00-0019	SF	10' High, 7.7' Deep Aluminized Steel Bin.....	60.24	5.57
		For >3:1 Sloped Soil At Top, Add	4.18	
		For Galvanized Type, Deduct	-4.92	
32 32 26 00-0020	SF	12' High, 7.7' Deep Aluminized Steel Bin.....	68.64	6.27
		For >3:1 Sloped Soil At Top, Add	4.77	
		For Galvanized Type, Deduct	-5.61	
32 32 26 00-0021	SF	16' High, 7.7' Deep Aluminized Steel Bin.....	65.97	6.51
		For >3:1 Sloped Soil At Top, Add	4.51	
		For Galvanized Type, Deduct	-5.31	
32 32 26 00-0022	SF	16' High, 9.9' Deep Aluminized Steel Bin.....	73.72	6.63
		For >3:1 Sloped Soil At Top, Add	5.15	
		For Galvanized Type, Deduct	-6.06	
32 32 26 00-0023	SF	20' High, 9.9' Deep Aluminized Steel Bin.....	81.85	6.98
		For >3:1 Sloped Soil At Top, Add	5.76	
		For Galvanized Type, Deduct	-6.78	
32 32 26 00-0024	SF	20' High, 12.1' Deep Aluminized Steel Bin.....	83.78	7.34
		For >3:1 Sloped Soil At Top, Add	5.88	
		For Galvanized Type, Deduct	-6.92	
32 32 26 00-0025	SF	24' High, 12.1' Deep Aluminized Steel Bin.....	88.24	7.34
		For >3:1 Sloped Soil At Top, Add	6.25	
		For Galvanized Type, Deduct	-7.36	
32 32 26 00-0026	SF	24' High, 14.3' Deep Aluminized Steel Bin.....	92.67	7.46
		For >3:1 Sloped Soil At Top, Add	6.62	
		For Galvanized Type, Deduct	-7.79	
32 32 26 00-0027	SF	28' High, 14.3' Deep Aluminized Steel Bin.....	95.81	7.57
		For >3:1 Sloped Soil At Top, Add	6.86	
		For Galvanized Type, Deduct	-8.08	
<b>32 32 29</b>		<b>Timber Retaining Walls</b> <small>(32 32)</small>		
32 32 29 00-0001		<b>Wood Post Retaining Walls</b> <small>(32 32 29)</small> Note: System includes wood posts installed side-by-side to various heights, and underdrain. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0002	LF	4" x 4", 1' High, Redwood, Wood Post Retaining Walls.....	89.30	31.21
		For >3:1 Sloped Soil At Top, Add	2.29	
32 32 29 00-0003	LF	4" x 4", 2' High, Redwood, Wood Post Retaining Walls.....	174.75	61.11
		For >3:1 Sloped Soil At Top, Add	4.47	
32 32 29 00-0004	LF	4" x 4", 1' High, Cedar, Wood Post Retaining Walls.....	85.86	31.21
		For >3:1 Sloped Soil At Top, Add	2.00	
32 32 29 00-0005	LF	4" x 4", 2' High, Cedar, Wood Post Retaining Walls.....	168.06	61.11
		For >3:1 Sloped Soil At Top, Add	3.90	
32 32 29 00-0006	LF	4" x 4", 1' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	87.72	27.27
		For >3:1 Sloped Soil At Top, Add	2.81	
32 32 29 00-0007	LF	4" x 4", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	171.74	53.34
		For >3:1 Sloped Soil At Top, Add	5.52	
32 32 29 00-0008	LF	4" x 4", 1' High, Creosoted Lumber, Wood Post Retaining Walls.....	71.20	24.20
		For >3:1 Sloped Soil At Top, Add	1.93	
32 32 29 00-0009	LF	4" x 4", 2' High, Creosoted Lumber, Wood Post Retaining Walls.....	128.73	43.81
		For >3:1 Sloped Soil At Top, Add	3.50	
32 32 29 00-0010	LF	6" x 6", 2' High, Redwood, Wood Post Retaining Walls.....	236.04	74.04
		For >3:1 Sloped Soil At Top, Add	7.48	
32 32 29 00-0011	LF	6" x 6", 4' High, Redwood, Wood Post Retaining Walls.....	466.09	145.12
		For >3:1 Sloped Soil At Top, Add	14.96	
32 32 29 00-0012	LF	6" x 6", 2' High, Cedar, Wood Post Retaining Walls.....	232.21	74.04
		For >3:1 Sloped Soil At Top, Add	7.15	
32 32 29 00-0013	LF	6" x 6", 4' High, Cedar, Wood Post Retaining Walls.....	456.53	145.12
		For >3:1 Sloped Soil At Top, Add	14.14	
32 32 29 00-0014	LF	6" x 6", 2' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	225.75	60.13
		For >3:1 Sloped Soil At Top, Add	8.96	
32 32 29 00-0015	LF	6" x 6", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls.....	448.42	118.72
		For >3:1 Sloped Soil At Top, Add	17.93	
32 32 29 00-0016	LF	6" x 6", 2' High, Creosoted Lumber, Wood Post Retaining Walls.....	162.25	48.08
		For >3:1 Sloped Soil At Top, Add	5.61	
32 32 29 00-0017	LF	6" x 6", 4' High, Creosoted Lumber, Wood Post Retaining Walls.....	319.16	94.08
		For >3:1 Sloped Soil At Top, Add	11.14	
32 32 29 00-0018	LF	8" x 8", 4' High, Redwood, Wood Post Retaining Walls.....	583.00	160.45
		For >3:1 Sloped Soil At Top, Add	22.27	
32 32 29 00-0019	LF	8" x 8", 6' High, Redwood, Wood Post Retaining Walls.....	1,090.58	299.54
		For >3:1 Sloped Soil At Top, Add	41.78	
32 32 29 00-0020	LF	8" x 8", 4' High, Cedar, Wood Post Retaining Walls.....	563.88	160.45
		For >3:1 Sloped Soil At Top, Add	20.65	
32 32 29 00-0021	LF	8" x 8", 6' High, Cedar, Wood Post Retaining Walls.....	1,054.24	299.54
		For >3:1 Sloped Soil At Top, Add	38.69	





		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0022	LF		8" x 8", 4' High, Pressure Treated Lumber, Wood Post Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	620.36 21.26	185.10
32 32 29 00-0023	LF		8" x 8", 6' High, Pressure Treated Lumber, Wood Post Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,157.28 39.61	345.66
32 32 29 00-0024	LF		8" x 8", 4' High, Creosoted Lumber, Wood Post Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	457.00 13.41	149.61
32 32 29 00-0025	LF		8" x 8", 6' High, Creosoted Lumber, Wood Post Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	847.62 24.88	277.53
32 32 29 00-0026	LF		4' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	171.23 4.06	61.66
32 32 29 00-0027	LF		6' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	255.89 6.02	92.54
32 32 29 00-0028	LF		8' High, Cedar, Random Diameter Poles, Wood Post Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	340.44 7.97	123.32
32 32 29 00-0029	LF		4' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	116.59 3.98	34.83
32 32 29 00-0030	LF		6' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	169.44 5.85	50.27
32 32 29 00-0031	LF		8' High Creosoted Lumber, Random Diameter Poles, Wood Post Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	229.45 7.97	67.90

**32 32 29 00-0032 Post And Board Retaining Walls (32 32 29)**

Note: System includes all the elements that must go into a wall that resists lateral pressure. System elements include posts and boards, cap, underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.

32 32 29 00-0033	LF		4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	71.75 2.95	18.51
32 32 29 00-0034	LF		4" x 4" Post, 2' Spacing, 4' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	110.11 3.98	31.65
32 32 29 00-0035	LF		6" x 6" Post, 4' Spacing, 5' High 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	144.66 5.61	39.32
32 32 29 00-0036	LF		6" x 6" Post, 3' Spacing, 6' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	202.23 7.72	55.75
32 32 29 00-0037	LF		6" x 6" With Deadman, 3' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	264.54 10.16	72.50
32 32 29 00-0038	LF		8" x 8" Post, 2' Spacing, 8' High, 2" Planking, Redwood, Post And Board Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	543.23 21.79	143.47
32 32 29 00-0039	LF		8" x 8" With Deadman, 2' Spacing, 9' High, 2" Planking, Redwood, Post And Board Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	614.23 25.20	158.92
32 32 29 00-0040	LF		4" x 4" Post, 4' Spacing, 3' High, 2" Planking, Cedar, Post And Board Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	72.80 2.91	19.28
32 32 29 00-0041	LF		4" x 4" With Deadman, 2' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	127.79 5.04	34.29
32 32 29 00-0042	LF		6" x 6" Post, 4' Spacing, 4' High 2" Planking, Cedar, Post And Board Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	125.60 4.96	33.63
32 32 29 00-0043	LF		6" x 6" Post, 3' Spacing, 5' High 2" Planking, Cedar, Post And Board Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	175.96 6.75	48.30
32 32 29 00-0044	LF		6" x 6" Post, 2' Spacing, 6' High 2" Planking, Cedar, Post And Board Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	273.81 10.16	77.11
32 32 29 00-0045	LF		6 x 6 Post With Deadman, 3' Spacing, 6' High, 2" Planking, Cedar..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	216.98 8.37	59.25
32 32 29 00-0046	LF		8 x 8 Post With Deadman, 2' Spacing, 8' High, 2" Planking, Cedar..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	561.98 22.60	148.07
32 32 29 00-0047	LF		4 x 4 Post, 4' Spacing, 3' High 2" Planking, Pressure Treated..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	90.88 1.67	35.59
32 32 29 00-0048	LF		4 x 4 Post, 3' Spacing, 4' High 2" Planking, Pressure Treated..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	131.52 2.58	50.60
32 32 29 00-0049	LF		4 x 4 Post With Deadman, 2' Space, 5' High, 2" Planking, Pressure Treat..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	191.41 4.47	69.44
32 32 29 00-0050	LF		6 x 6 Post, 3' Spacing, 6' High, 2" Planking, Pressure Treated..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	336.75 8.70	117.19
32 32 29 00-0051	LF		6 x 6 Post, 2' Spacing, 7' High, 2" Planking, Pressure Treated..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	341.53 9.10	117.19
32 32 29 00-0052	LF		6 x 6 Post With Deadman, 3' Spacing 8' High, 2" Planking, Pressure Treat..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	320.87 8.13	112.59
32 32 29 00-0053	LF		8 x 8 Post With Deadman, 2' Spacing 10' High, 2" Planking, Pressure Treated ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	755.13 20.16	259.02
32 32 29 00-0054	LF		4 x 4 Post, 4' Spacing, 3' High Creosoted 2" Planking..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	90.88 1.67	35.59
32 32 29 00-0055	LF		4 x 4 Post, 3' Spacing, 4' High Creosoted, 2" Planking..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	131.52 2.58	50.60
32 32 29 00-0056	LF		4 x 4 Post With Deadman, 2' Spacing, 5' High, Creosoted, 2" Planking ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	191.41 4.47	69.44
32 32 29 00-0057	LF		6 x 6 Post, 3' Spacing, 6' High Creosoted, 2" Planking..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	240.64 5.77	86.41
32 32 29 00-0058	LF		6" x 6" Post, 2' Spacing, 7' High, 2" Planking, Creosoted, Post And Board Retaining Walls ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	336.75 8.70	117.19
32 32 29 00-0059	LF		6" x 6" Post With Deadman, 3' Spacing, 8' High, 2" Planking, Creosoted, Post And Board Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	320.87 8.13	112.59
32 32 29 00-0060	LF		8" x 8" Post With Deadman, 2' Spacing, 10' High, Creosoted, 2" Planking, Post And Board Retaining Walls..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	755.13 20.16	259.02

**32 Exterior Improvements****32 30 Site Improvements****32 32 Retaining Walls**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 29 00-0061			<b>Wood Tie Retaining Walls, Rod Connector At 4'</b> <small>(32 32 29)</small> Note: The system includes all the elements that must go into a wall that resists lateral pressure. System elements include: wood ties, threaded rod (1/2" diameter), underdrain, and deadman where required. Excludes initial site grading, subbase preparation or finish grading.		
32 32 29 00-0062			<b>Redwood</b> <small>(32 32 29 00-0061)</small>		
32 32 29 00-0063	LF		2' High, 6" x 6" Wood Tie Wall ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	121.80 3.90	37.89
32 32 29 00-0064	LF		4' High, 6" x 6" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	277.94 8.94	86.41
32 32 29 00-0065	LF		6' High, 6" x 6" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	416.03 13.33	129.57
32 32 29 00-0066	LF		4' High, 8" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	403.79 15.45	111.06
32 32 29 00-0067	LF		6' High, 8" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	606.77 23.25	166.58
32 32 29 00-0068	LF		8' High, 8" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	801.45 30.89	219.05
32 32 29 00-0069			<b>Cedar</b> <small>(32 32 29 00-0061)</small>		
32 32 29 00-0070	LF		2' High, 6" x 6" Wood Tie Wall ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	119.88 3.74	37.89
32 32 29 00-0071	LF		4' High, 6" x 6" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	272.20 8.45	86.41
32 32 29 00-0072	LF		6' High, 6" x 6" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	408.38 12.68	129.57
32 32 29 00-0073	LF		4' High, 8" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	390.40 14.31	111.06
32 32 29 00-0074	LF		6' High, 8" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	587.64 21.62	166.58
32 32 29 00-0075	LF		8' High, 8" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	774.67 28.61	219.05
32 32 29 00-0076			<b>Creosoted Wood</b> <small>(32 32 29 00-0061)</small>		
32 32 29 00-0077	LF		2' High, 6" x 8" Wood Tie Wall ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	133.19 2.77	50.27
32 32 29 00-0078	LF		4' High, 6" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	305.04 6.26	115.66
32 32 29 00-0079	LF		6' High, 6" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	452.37 9.35	171.19
32 32 29 00-0080	LF		4' High, 7" x 9" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	613.05 12.52	232.84
32 32 29 00-0081	LF		6' High, 7" x 9" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	892.59 18.21	339.19
32 32 29 00-0082	LF		8' High, 7" x 9" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,184.44 24.23	449.70
32 32 29 00-0083			<b>Pressure Treated Wood</b> <small>(32 32 29 00-0061)</small>		
32 32 29 00-0084	LF		2' High, 6" x 6" Wood Tie Wall ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	105.76 3.67	31.33
32 32 29 00-0085	LF		4' High, 6" x 6" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	240.41 8.37	70.97
32 32 29 00-0086	LF		6' High, 6" x 6" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	360.14 12.52	106.45
32 32 29 00-0087	LF		4' High, 8" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	390.81 11.46	128.03
32 32 29 00-0088	LF		6' High, 8" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	587.24 17.40	191.33
32 32 29 00-0089	LF		8' High, 8" x 8" Wood Tie Wall Deadman At 6' ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	778.46 22.92	254.42
32 32 53			<b>Stone Retaining Walls</b> <small>(32 32)</small>		
32 32 53 00-0001			<b>Stone Retaining Walls</b> <small>(32 32 53)</small> Note: Construction is either dry set or mortar set. System includes concrete base, crushed stone, underdrain, and backfill. Standard design to have 12" thick top with vertical backside and sloped face at 2" per foot of height. Excludes initial site grading, subbase preparation or finish grading.		
32 32 53 00-0002			<b>Stone Retaining Walls</b> <small>(32 32 53 00-0001)</small> Note: Stone at \$16.00/ton.		
32 32 53 00-0003	LF		\$16.00/ton 3' High Stone Retaining Wall, Dry Set ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	479.26 4.29	214.34
32 32 53 00-0004	LF		\$16.00/ton 4' High Stone Retaining Wall, Dry Set ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	565.26 4.69	254.99
32 32 53 00-0005	LF		\$16.00/ton 6' High Stone Retaining Wall, Dry Set ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	742.15 5.49	338.79
32 32 53 00-0006	LF		\$16.00/ton 8' High Stone Retaining Wall, Dry Set ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,142.89 7.09	529.71
32 32 53 00-0007	LF		\$16.00/ton 10' High Stone Retaining Wall, Dry Set ..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,484.56 8.39	692.91



		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Retaining Walls	32 32

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0008	LF		\$16.00/ton 12' High Stone Retaining Wall, Dry Set .....	1,842.12	862.88
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	9.89	
32 32 53 00-0009	LF		\$16.00/ton 3' High Stone Retaining Wall, Mortar Set.....	430.05	189.77
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	4.29	
32 32 53 00-0010	LF		\$16.00/ton 4' High Stone Retaining Wall, Mortar Set.....	504.32	224.53
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	4.69	
32 32 53 00-0011	LF		\$16.00/ton 6' High Stone Retaining Wall, Mortar Set.....	652.20	293.75
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	5.49	
32 32 53 00-0012	LF		\$16.00/ton 8' High Stone Retaining Wall, Mortar Set.....	998.09	457.34
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	7.09	
32 32 53 00-0013	LF		\$16.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,281.46	591.40
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	8.39	
32 32 53 00-0014	LF		\$16.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,591.60	737.67
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	9.89	
<b>32 32 53 00-0015 Stone Retaining Walls (32 32 53 00-0001)</b>					
Note: Stone at \$32.00/ton.					
32 32 53 00-0016	LF		\$32.00/ton 3' High Stone Retaining Wall, Dry Set .....	494.54	214.34
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	5.59	
32 32 53 00-0017	LF		\$32.00/ton 4' High Stone Retaining Wall, Dry Set .....	586.41	254.99
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	6.49	
32 32 53 00-0018	LF		\$32.00/ton 6' High Stone Retaining Wall, Dry Set .....	772.70	338.79
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	8.09	
32 32 53 00-0019	LF		\$32.00/ton 8' High Stone Retaining Wall, Dry Set .....	1,187.53	529.71
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	10.88	
32 32 53 00-0020	LF		\$32.00/ton 10' High Stone Retaining Wall, Dry Set .....	1,545.65	692.91
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	13.58	
32 32 53 00-0021	LF		\$32.00/ton 12' High Stone Retaining Wall, Dry Set .....	1,919.65	862.88
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	16.48	
32 32 53 00-0022	LF		\$32.00/ton 3' High Stone Retaining Wall, Mortar Set.....	445.33	189.77
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	5.59	
32 32 53 00-0023	LF		\$32.00/ton 4' High Stone Retaining Wall, Mortar Set.....	525.47	224.53
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	6.49	
32 32 53 00-0024	LF		\$32.00/ton 6' High Stone Retaining Wall, Mortar Set.....	682.75	293.75
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	8.09	
32 32 53 00-0025	LF		\$32.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,042.73	457.34
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	10.88	
32 32 53 00-0026	LF		\$32.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,342.55	591.40
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	13.58	
32 32 53 00-0027	LF		\$32.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,669.13	737.67
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	16.48	
<b>32 32 53 00-0028 Stone Retaining Walls (32 32 53 00-0001)</b>					
Note: Stone at \$48.00/ton.					
32 32 53 00-0029	LF		\$48.00/ton 3' High Stone Retaining Wall, Dry Set .....	510.98	214.34
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	6.99	
32 32 53 00-0030	LF		\$48.00/ton 4' High Stone Retaining Wall, Dry Set .....	607.32	254.99
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	8.27	
32 32 53 00-0031	LF		\$48.00/ton 6' High Stone Retaining Wall, Dry Set .....	802.06	338.79
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	10.58	
32 32 53 00-0032	LF		\$48.00/ton 8' High Stone Retaining Wall, Dry Set .....	1,232.17	529.71
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	14.68	
32 32 53 00-0033	LF		\$48.00/ton 10' High Stone Retaining Wall, Dry Set .....	1,606.73	692.91
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	18.77	
32 32 53 00-0034	LF		\$48.00/ton 12' High Stone Retaining Wall, Dry Set .....	1,998.36	862.88
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	23.17	
32 32 53 00-0035	LF		\$48.00/ton 3' High Stone Retaining Wall, Mortar Set.....	461.77	189.77
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	6.99	
32 32 53 00-0036	LF		\$48.00/ton 4' High Stone Retaining Wall, Mortar Set.....	546.61	224.53
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	8.29	
32 32 53 00-0037	LF		\$48.00/ton 6' High Stone Retaining Wall, Mortar Set.....	712.11	293.75
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	10.58	
32 32 53 00-0038	LF		\$48.00/ton 8' High Stone Retaining Wall, Mortar Set.....	1,087.37	457.34
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	14.68	
32 32 53 00-0039	LF		\$48.00/ton 10' High Stone Retaining Wall, Mortar Set.....	1,403.63	591.40
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	18.77	
32 32 53 00-0040	LF		\$48.00/ton 12' High Stone Retaining Wall, Mortar Set.....	1,747.84	737.67
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	23.17	
<b>32 32 53 00-0041 Stone Retaining Walls (32 32 53 00-0001)</b>					
Note: Stone at \$64.00/ton.					
32 32 53 00-0042	LF		\$64.00/ton 3' High Stone Retaining Wall, Dry Set .....	527.43	214.34
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	8.39	
32 32 53 00-0043	LF		\$64.00/ton 4' High Stone Retaining Wall, Dry Set .....	605.21	254.99
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	8.09	
32 32 53 00-0044	LF		\$64.00/ton 6' High Stone Retaining Wall, Dry Set .....	833.78	338.79
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	13.28	
32 32 53 00-0045	LF		\$64.00/ton 8' High Stone Retaining Wall, Dry Set .....	1,279.16	529.71
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	18.67	
32 32 53 00-0046	LF		\$64.00/ton 10' High Stone Retaining Wall, Dry Set .....	1,670.17	692.91
			<i>For &gt;3:1 Sloped Soil At Top, Add</i> .....	24.16	

**32 Exterior Improvements****32 30 Site Improvements****32 32 Retaining Walls**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 32 53 00-0047 LF \$64.00/ton 12' High Stone Retaining Wall, Dry Set..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	2,078.25 29.96	862.88
32 32 53 00-0048 LF \$64.00/ton 3' High Stone Retaining Wall, Mortar Set..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	478.22 8.39	189.77
32 32 53 00-0049 LF \$64.00/ton 4' High Stone Retaining Wall, Mortar Set..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	567.76 10.09	224.53
32 32 53 00-0050 LF \$64.00/ton 6' High Stone Retaining Wall, Mortar Set..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	743.83 13.28	293.75
32 32 53 00-0051 LF \$64.00/ton 8' High Stone Retaining Wall, Mortar Set..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,134.36 18.67	457.34
32 32 53 00-0052 LF \$64.00/ton 10' High Stone Retaining Wall, Mortar Set..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,467.07 24.16	591.40
32 32 53 00-0053 LF \$64.00/ton 12' High Stone Retaining Wall, Mortar Set..... <i>For &gt;3:1 Sloped Soil At Top, Add</i>	1,827.73 29.96	737.67

**32 33 Site Furnishings** (32 30)**32 33 13 Site Bicycle Racks** (32 33)

32 33 13 00-0001 Bicycle Organizer And Rack (32 33 13)

32 33 13 00-0002 Vertical Style Bike Racks Single/Double Sided, Galvanized (32 33 13 00-0001)

32 33 13 00-0003 Double Sided (32 33 13 00-0002)

32 33 13 00-0004 EA 5' Galvanized Steel Double Sided Bike Rack, 9 Bikes.....	691.07	118.73
32 33 13 00-0005 EA 10' Galvanized Steel Double Sided Bike Rack, 18 Bikes.....	1,042.21	195.06
32 33 13 00-0006 EA 20' Galvanized Steel Double Sided Bike Rack, 36 Bikes.....	1,795.72	296.82

32 33 13 00-0007 Single Sided (32 33 13 00-0002)

32 33 13 00-0008 EA 5' Galvanized Steel Single Sided Bike Rack, 5 Bikes.....	604.99	106.01
32 33 13 00-0009 EA 10' Galvanized Steel Single Sided Bike Rack, 9 Bikes.....	855.44	176.39
32 33 13 00-0010 EA 20' Galvanized Steel Single Sided Bike Rack, 18 Bikes.....	1,466.43	265.01

32 33 13 00-0011 Anchor Set For Vertical Style Bike Rack (32 33 13 00-0002)

32 33 13 00-0012 PR Anchor Set For Vertical Style Bike Rack..... Note: Anchoring frame to ground.	121.17	
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32 33 13 00-0013 Bike Racks Ground Loop (32 33 13 00-0001)

32 33 13 00-0014 EA 83" Ground Loop Bike Rack, Surface Or Wall Mounted, 12 Bikes..... Note: In-ground mount.	914.62	208.02
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32 33 13 00-0015 Serpentine Bike Racks (32 33 13 00-0001)

Note: In-ground mount.

32 33 13 00-0016 Galvanized, 36" High, 2-3/8" OD Tubing (32 33 13 00-0015)

32 33 13 00-0017 EA 1' x 3' High Serpentine (M Style) Bike Rack, 3 Bikes, Galvanized.....	505.47	127.21
32 33 13 00-0018 EA 3' x 3' High Serpentine (M Style) Bike Rack, 5 Bikes, Galvanized.....	687.89	137.80
32 33 13 00-0019 EA 5' x 3' High Serpentine (M Style) Bike Rack, 7 Bikes, Galvanized.....	870.31	148.41
32 33 13 00-0020 EA 7' x 3' High Serpentine (M Style) Bike Rack, 9 Bikes, Galvanized.....	1,075.77	159.01
32 33 13 00-0021 EA 9' x 3' High Serpentine (M Style) Bike Rack, 11 Bikes, Galvanized.....	1,281.22	169.61
32 33 13 00-0022 EA 11' x 3' High Serpentine (M Style) Bike Rack, 13 Bikes, Galvanized.....	1,394.55	180.21

32 33 13 00-0023 Galvanized, 42" High, 2-3/8" OD Tubing (32 33 13 00-0015)

32 33 13 00-0024 EA 1' x 42" High Serpentine Bike Rack, 3 Bikes, Galvanized.....	572.99	127.21
32 33 13 00-0025 EA 3' x 42" High Serpentine Bike Rack, 5 Bikes, Galvanized.....	736.57	137.80
32 33 13 00-0026 EA 5' x 42" High Serpentine Bike Rack, 7 Bikes, Galvanized.....	900.15	148.41
32 33 13 00-0027 EA 7' x 42" High Serpentine Bike Rack, 9 Bikes, Galvanized.....	1,045.93	159.01
32 33 13 00-0028 EA 9' x 42" High Serpentine Bike Rack, 11 Bikes, Galvanized.....	1,209.51	169.61
32 33 13 00-0029 EA 11' x 42" High Serpentine Bike Rack, 13 Bikes, Galvanized.....	1,408.68	180.21

32 33 13 00-0030 Powder Coated, 36" High, 2-3/8" OD Tubing (32 33 13 00-0015)

32 33 13 00-0031 EA 1' x 3' High Serpentine (M Style) Bike Rack, 3 Bikes, Powder Coated.....	505.47	127.21
32 33 13 00-0032 EA 3' x 3' High Serpentine (M Style) Bike Rack, 5 Bikes, Powder Coated.....	687.89	137.80
32 33 13 00-0033 EA 5' x 3' High Serpentine (M Style) Bike Rack, 7 Bikes, Powder Coated.....	870.31	148.41
32 33 13 00-0034 EA 7' x 3' High Serpentine (M Style) Bike Rack, 9 Bikes, Powder Coated.....	1,075.77	159.01
32 33 13 00-0035 EA 9' x 3' High Serpentine (M Style) Bike Rack, 11 Bikes, Powder Coated.....	1,281.22	169.61
32 33 13 00-0036 EA 11' x 3' High Serpentine (M Style) Bike Rack, 13 Bikes, Powder Coated.....	1,394.55	180.21

32 33 13 00-0037 Powder Coated, 42" High, 2-3/8" OD Tubing (32 33 13 00-0015)

32 33 13 00-0038 EA 1' x 42" High Serpentine Bike Rack, 3 Bikes, Powder Coated.....	590.79	127.21
32 33 13 00-0039 EA 3' x 42" High Serpentine Bike Rack, 5 Bikes, Powder Coated.....	772.16	137.80
32 33 13 00-0040 EA 5' x 42" High Serpentine Bike Rack, 7 Bikes, Powder Coated.....	935.74	148.41
32 33 13 00-0041 EA 7' x 42" High Serpentine Bike Rack, 9 Bikes, Powder Coated.....	1,134.92	159.01
32 33 13 00-0042 EA 9' x 42" High Serpentine Bike Rack, 11 Bikes, Powder Coated.....	1,298.49	169.61



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
Site Improvements	32 30	
Site Furnishings	32 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 13 00-0043 EA 11' x 42" High Serpentine Bike Rack, 13 Bikes, Powder Coated .....	1,515.46	180.21
<b>32 33 13 00-0044 Stainless Steel, 36" High, 2-3/8" OD Tubing</b> (32 33 13 00-0015)		
32 33 13 00-0045 EA 1' x 36" High Serpentine Bike Rack, 3 Bikes, Stainless Steel .....	959.17	127.21
32 33 13 00-0046 EA 3' x 36" High Serpentine Bike Rack, 5 Bikes, Stainless Steel .....	1,432.95	137.80
32 33 13 00-0047 EA 5' x 36" High Serpentine Bike Rack, 7 Bikes, Stainless Steel .....	1,906.74	148.41
32 33 13 00-0048 EA 7' x 36" High Serpentine Bike Rack, 9 Bikes, Stainless Steel .....	2,445.20	159.01
32 33 13 00-0049 EA 9' x 36" High Serpentine Bike Rack, 11 Bikes, Stainless Steel .....	2,983.63	169.61
32 33 13 00-0050 EA 11' x 36" High Serpentine Bike Rack, 13 Bikes, Stainless Steel .....	3,263.45	180.21
<b>32 33 13 00-0051 Stainless Steel, 42" High, 2-3/8" OD Tubing</b> (32 33 13 00-0015)		
32 33 13 00-0052 EA 1' x 42" High Serpentine Bike Rack, 3 Bikes, Stainless Steel .....	750.96	127.21
32 33 13 00-0053 EA 3' x 42" High Serpentine Bike Rack, 5 Bikes, Stainless Steel .....	1,662.03	137.80
32 33 13 00-0054 EA 5' x 42" High Serpentine Bike Rack, 7 Bikes, Stainless Steel .....	2,181.55	148.41
32 33 13 00-0055 EA 7' x 42" High Serpentine Bike Rack, 9 Bikes, Stainless Steel .....	2,665.48	159.01
32 33 13 00-0056 EA 9' x 42" High Serpentine Bike Rack, 11 Bikes, Stainless Steel .....	3,167.21	169.61
32 33 13 00-0057 EA 11' x 42" High Serpentine Bike Rack, 13 Bikes, Stainless Steel .....	3,686.74	180.21
<b>32 33 13 00-0058 Bike Racks Bollards/Bicycle Posts</b> (32 33 13 00-0001)		
Note: In-ground mount.		
32 33 13 00-0059 EA 43" Overall Height, 4-1/2" Outside Diameter Bollard/Bicycle Post, 2 Loop Galvanized Steel Bollard (Belson BOL450-2R-IG-G) .....	618.53	95.41
<b>32 33 23 Site Trash and Litter Receptacles</b> (32 33)		
<b>32 33 23 00-0001 Steel Trash Containment</b> (32 33 23)		
<b>32 33 23 00-0002 Steel Frame Surrounded With Kiln-Dried Wood</b> (32 33 23 00-0001)		
32 33 23 00-0003 EA 13" x 13" x 30" Ash Receptacle Steel Frame, Kiln Dried Wood .....	534.38	50.62
32 33 23 00-0004 EA 24" x 24" x 30" High Open Top Trash Container Steel Frame, Kiln Dried Wood .....	509.56	50.62
32 33 23 00-0005 EA 21" x 21" x 31" High Flat Top Trash Container Steel Frame, Kiln Dried Wood .....	509.56	50.62
32 33 23 00-0006 EA 24" x 24" x 31" High, Flat Top Trash Container Steel Frame, Kiln Dried Wood .....	481.64	50.62
32 33 23 00-0007 EA 18" x 18" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood .....	534.38	50.62
32 33 23 00-0008 EA 23" x 23" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood .....	481.64	50.62
32 33 23 00-0009 EA 24" x 24" x 37" High Dome Top Trash Container Steel Frame, Kiln Dried Wood .....	664.66	50.62
<b>32 33 23 00-0010 Square Steel Frames Surrounded With Flat Steel</b> (32 33 23 00-0001)		
32 33 23 00-0011 EA 26" Diameter x 34" High Open Top Trash Square Container Steel Frame, Flat Steel Surround .....	976.84	50.62
32 33 23 00-0012 EA 26" Diameter x 34" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround .....	1,055.67	50.62
32 33 23 00-0013 EA 26" Diameter x 39" High Dome Top Trash Square Container Steel Frame, Flat Steel Surround .....	1,055.67	50.62
<b>32 33 23 00-0014 Round Steel Pipe And Flat Steel Frames</b> (32 33 23 00-0001)		
Note: Surrounded with kiln-dried wood.		
32 33 23 00-0015 EA 21" Diameter x 32" High Open Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood .....	1,449.83	50.62
32 33 23 00-0016 EA 21" Diameter x 32" High Flat Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood .....	1,562.45	50.62
32 33 23 00-0017 EA 21" Diameter x 39" High Dome Top Trash Steel Container Pipe, Flat Steel Frame, Kiln Dried Wood .....	1,801.76	50.62
32 33 23 00-0018 EA 21" Diameter x 40" High HPR Top Trash Container Steel Pipe, Flat Steel Frame, Kiln Dried Wood .....	1,632.83	50.62
<b>32 33 23 00-0019 Round Steel Pipe Surrounded With Perforated</b> (32 33 23 00-0001)		
32 33 23 00-0020 EA 21" Diameter x 32" High Open Top Trash Container Perforated Round Steel Pipe .....	1,294.98	50.62
32 33 23 00-0021 EA 21" Diameter x 32" High Flat Top Trash Container Perforated Round Steel Pipe .....	1,407.60	50.62
32 33 23 00-0022 EA 21" Diameter x 39" High Dome Top Trash Container Perforated Round Steel Pipe .....	1,646.91	50.62
32 33 23 00-0023 EA 21" Diameter x 40" High HPR Top Trash Container Perforated Round Steel Pipe .....	1,492.06	50.62
<b>32 33 23 00-0024 Round Steel Pipe Frames Surrounded With Welded Wire</b> (32 33 23 00-0001)		
32 33 23 00-0025 EA 21" Diameter x 32" High Flat Top Trash Container Steel Pipe Frame, Welded Wire Surround .....	1,027.52	50.62
32 33 23 00-0026 EA 21" Diameter x 32" High Open Top Trash Steel Container Pipe Frame, Welded Wire Surround .....	1,140.13	50.62
32 33 23 00-0027 EA 21" Diameter x 39" High Dome Top Trash Steel Container Pipe Frame, Welded Wire Surround .....	1,379.44	50.62
32 33 23 00-0028 EA 21" Diameter x 40" High HPR Top Trash Container Steel Pipe Frame, Welded Wire Surround .....	1,224.60	50.62
<b>32 33 23 00-0029 Litter Baskets</b> (32 33 23)		
<b>32 33 23 00-0030 Round Wire Litter Baskets</b> (32 33 23 00-0029)		
32 33 23 00-0031 EA 1.33' Diameter x 1.83' High Round Wire Litter Basket .....	182.40	5.15
32 33 23 00-0032 EA 1.5' Diameter x 1.83' High Round Wire Litter Basket .....	230.58	5.15
32 33 23 00-0033 EA 1.75' Diameter x 2.33' High Round Wire Litter Basket .....	312.32	5.15
32 33 23 00-0034 EA 1.83' Diameter x 2.83' High Round Wire Litter Basket .....	358.45	5.15
<b>32 33 23 00-0035 Trash Can/Wire Basket Holder</b> (32 33 23 00-0029)		
32 33 23 00-0036 EA Steel Post, Single Holder .....	254.03	41.34

**32 Exterior Improvements****32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 23 00-0037 EA Steel Post, Double Holder.....	346.22	41.34
32 33 23 00-0038 EA Redwood Post, Single Holder.....	148.43	41.34
32 33 23 00-0039 EA Redwood Post, Double Holder.....	175.06	41.34
<b>32 33 23 00-0040 Litter Receptacles, Freestanding</b> (32 33 23 00-0029) Note: Includes 1-1/2" outside diameter steel leg supports. Wall mounted, includes 3/8" x 3" steel wall plates. Surface mounted, includes 2-1/2" outside diameter steel tube with floor flange, embedded to include 2-1/2" outside diameter steel tube.		
32 33 23 00-0041 EA 16" Diameter x 28" High Litter Receptacle, Freestanding Or Embedded.....	1,469.13	21.09
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0042 EA 16" Diameter x 32" High Litter Receptacle, Freestanding Or Embedded.....	1,546.68	21.09
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0043 EA 20" Diameter x 36" High Litter Receptacle, Freestanding Or Embedded.....	1,800.43	31.63
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0044 EA 20" Diameter x 40" High Litter Receptacle, Freestanding Embedded.....	1,877.98	31.63
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0045 EA 16" Diameter x 28" High Litter Receptacle, Pole Mount With Pole.....	1,955.53	31.63
For Powder Coated Sand Pan, Add	50.00	
For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0046 EA 16" Diameter x 32" High Litter Receptacle, Pole Mount With Pole.....	2,033.08	31.63
For Powder Coated Sand Pan, Add	50.00	
For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
32 33 23 00-0047 EA 16" Diameter x 28" High Litter Receptacle, Wall Mount.....	1,621.38	27.42
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
For 1-1/2" x 6" Diameter Metal Cover Plate, Add	20.00	
32 33 23 00-0048 EA 16" Diameter x 32" High Litter Receptacle, Wall Mount.....	1,698.93	27.42
For Powder Coated Sand Pan, Add	50.00	
For Orange Peel Lid, Add	25.00	
For Polished Granite Lid, Add	50.00	
For 1-1/2" x 6" Diameter Metal Cover Plate, Add	20.00	
<b>32 33 23 00-0049 Ash Receptacles</b> (32 33 23)		
32 33 23 00-0050 EA 12" Diameter x 21" High Ash Receptacle, Freestanding Or Embedded.....	828.17	21.09
For 1-1/2" x 8-1/2" Diameter Metal Cover Plate, Add	22.50	
For Sand Pan, Add	110.00	
For Bowl And Funnel, Add	120.00	
32 33 23 00-0051 EA 18" Square Concrete Exposed Aggregate x 36" High Ash Receptacles With 3-1/2" ID iron Pipe With Cap Square Concrete With Steel Liner.....	340.91	21.09
<b>32 33 23 00-0052 Trash Receptacles</b> (32 33 23)		
32 33 23 00-0053 EA Outdoor Covered Steel Receptacle With Liner.....	1,205.45	21.09
32 33 23 00-0054 EA Driftwood And Sable Receptacle, 35 Gallon With Liner And Frame.....	515.10	21.09
32 33 23 00-0055 EA 24" x 24" Square Trash Containment With Exposed Aggregate Finish.....	895.06	21.09
32 33 23 00-0056 EA 30" x 30" Square Trash Containment With Exposed Aggregate Finish.....	932.73	23.20
32 33 23 00-0057 EA 36" x 36" Square Trash Containment With Exposed Aggregate Finish.....	1,003.84	25.31
32 33 23 00-0058 EA 32 Gallon, Open Round Trash Receptacle, Recycled Plastic Lumber.....	504.73	16.87
32 33 23 00-0059 EA 32 Gallon, Round Trash Receptacle With Liner And Lid, Recycled Plastic Lumber.....	602.85	16.87
32 33 23 00-0060 EA 24" x 24" Square 18" High Trash Receptacle, Fiberglass.....	1,160.39	21.09
<b>32 33 23 00-0061 Trash Containers (Dumpsters)</b> (32 33 23)		
32 33 23 00-0062 EA 1 CY Straight Side Trash Dumpster.....	300.04	
32 33 23 00-0063 EA 1.5 CY Straight Side Trash Dumpster.....	450.07	
32 33 23 00-0064 EA 2 CY Straight Side Trash Dumpster.....	600.09	
32 33 23 00-0065 EA 2 CY Sloped Side Trash Dumpster.....	600.09	
32 33 23 00-0066 EA 3 CY Sloped Side Trash Dumpster.....	900.13	
32 33 23 00-0067 EA 4 CY Sloped Side Trash Dumpster.....	1,200.18	
32 33 23 00-0068 EA 6 CY Sloped Side Trash Dumpster.....	1,800.27	
32 33 23 00-0069 EA 8 CY Sloped Side Trash Dumpster.....	2,400.35	
<b>32 33 33 Site Manufactured Planters</b> (32 33)		
<b>32 33 33 00-0001 Precast Concrete Planters</b> (32 33 33)		
<b>32 33 33 00-0002 Circular Precast Concrete Planters</b> (32 33 33 00-0001)		
32 33 33 00-0003 EA 24" Diameter, 17" Height, Circular Precast Concrete Planter.....	809.02	26.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 33 00-0004 EA 24" Diameter, 24" Height, Circular Precast Concrete Planter .....	905.52	31.31
32 33 33 00-0005 EA 24" Diameter, 33" Height, Circular Precast Concrete Planter .....	991.58	31.31
32 33 33 00-0006 EA 30" Diameter, 17" Height, Circular Precast Concrete Planter .....	1,075.42	36.52
32 33 33 00-0007 EA 30" Diameter, 30" Height, Circular Precast Concrete Planter .....	1,301.33	46.95
32 33 33 00-0008 EA 36" Diameter, 24" Height, Circular Precast Concrete Planter .....	1,417.77	46.95
32 33 33 00-0009 EA 36" Diameter, 30" Height, Circular Precast Concrete Planter .....	1,597.80	52.17
32 33 33 00-0010 EA 48" Diameter, 17" Height, Circular Precast Concrete Planter .....	1,688.92	52.17
32 33 33 00-0011 EA 48" Diameter, 24" Height, Circular Precast Concrete Planter .....	1,879.54	65.21
32 33 33 00-0012 EA 48" Diameter, 30" Height, Circular Precast Concrete Planter .....	1,999.26	69.38
32 33 33 00-0013 EA 48" Diameter, 36" Height, Circular Precast Concrete Planter .....	2,082.50	73.03
32 33 33 00-0014 EA 60" Diameter, 17" Height, Circular Precast Concrete Planter .....	1,891.31	65.21
32 33 33 00-0015 EA 60" Diameter, 24" Height, Circular Precast Concrete Planter .....	2,079.97	73.03
32 33 33 00-0016 EA 60" Diameter, 36" Height, Circular Precast Concrete Planter .....	2,670.07	78.25
32 33 33 00-0017 EA 72" Diameter, 36" Height, Circular Precast Concrete Planter .....	3,466.13	99.12
32 33 33 00-0018 EA 84" Diameter, 36" Height, Circular Precast Concrete Planter .....	4,030.91	104.34
<b>32 33 33 00-0019 Square Precast Concrete Planters (32 33 33 00-0001)</b>		
32 33 33 00-0020 EA 36" Square, 30" Height, Square Precast Concrete Planter .....	1,625.78	67.82
32 33 33 00-0021 EA 42" Square, 30" Height, Square Precast Concrete Planter .....	1,862.94	73.03
32 33 33 00-0022 EA 60" Square, 36" Height, Square Precast Concrete Planter .....	2,953.88	83.47
32 33 33 00-0023 EA 72" Square, 36" Height, Square Precast Concrete Planter .....	3,151.63	88.68
<b>32 33 33 00-0024 Rectangular Precast Concrete Planters (32 33 33 00-0001)</b>		
32 33 33 00-0025 EA 33" x 18", 20" Height, Rectangular Precast Concrete Planter .....	943.49	31.31
32 33 33 00-0026 EA 48" x 18", 20" Height, Rectangular Precast Concrete Planter .....	1,103.89	46.95
32 33 33 00-0027 EA 60" x 18", 20" Height, Rectangular Precast Concrete Planter .....	1,281.39	52.17
32 33 33 00-0028 EA 72" x 18", 20" Height, Rectangular Precast Concrete Planter .....	1,456.81	65.21
<b>32 33 33 00-0029 Fiberglass Planters (32 33 33)</b>		
<b>32 33 33 00-0030 Circular Fiberglass Planters (32 33 33 00-0029)</b>		
32 33 33 00-0031 EA 36" Diameter, 27" High, Circular Fiberglass Planter .....	2,004.81	26.08
32 33 33 00-0032 EA 60" Diameter, 39" High, Circular Fiberglass Planter .....	3,350.52	26.08
32 33 33 00-0033 EA 36" Diameter, 24" High, Circular Fiberglass Planter .....	1,329.54	26.08
32 33 33 00-0034 EA 60" Diameter, 24" High, Circular Fiberglass Planter .....	2,641.11	26.08
<b>32 33 33 00-0035 Tapered Circular Fiberglass Planters (32 33 33 00-0029)</b>		
32 33 33 00-0036 EA 24" Diameter, 20" High, Tapered Circular Fiberglass Planter .....	767.07	26.08
32 33 33 00-0037 EA 30" Diameter, 25" High, Tapered Circular Fiberglass Planter .....	1,134.49	26.08
32 33 33 00-0038 EA 36" Diameter, 30" High, Tapered Circular Fiberglass Planter .....	2,038.95	26.08
32 33 33 00-0039 EA 40" Diameter, 36" High, Tapered Circular Fiberglass Planter .....	2,855.65	26.08
<b>32 33 33 00-0040 Square Fiberglass Planters (32 33 33 00-0029)</b>		
32 33 33 00-0041 EA 24" Square, 21" High, Square Fiberglass Planter .....	1,013.96	26.08
32 33 33 00-0042 EA 24" Square, 24" High, Square Fiberglass Planter .....	1,036.98	26.08
32 33 33 00-0043 EA 30" Square, 12" High, Square Fiberglass Planter .....	1,049.16	26.08
32 33 33 00-0044 EA 30" Square, 21" High, Square Fiberglass Planter .....	1,193.02	26.08
32 33 33 00-0045 EA 30" Square, 24" High, Square Fiberglass Planter .....	1,297.82	26.08
<b>32 33 33 00-0046 Rectangular Fiberglass Planters (32 33 33 00-0029)</b>		
32 33 33 00-0047 EA 48" x 12", 12" High, Rectangular Fiberglass Planter .....	1,170.23	26.08
32 33 33 00-0048 EA 48" x 12", 21" High, Rectangular Fiberglass Planter .....	1,256.18	26.08
32 33 33 00-0049 EA 48" x 24", 12" High, Rectangular Fiberglass Planter .....	1,643.24	26.08
32 33 33 00-0050 EA 48" x 24", 21" High, Rectangular Fiberglass Planter .....	1,815.14	26.08
<b>32 33 33 00-0051 Timber Planters (32 33 33)</b>		
<b>32 33 33 00-0052 Square Timber Planters (32 33 33 00-0051)</b>		
32 33 33 00-0053 EA 14" Square, 30" High, Square Timber Planter .....	601.18	50.62
32 33 33 00-0054 EA 21" Square, 30" High, Square Timber Planter .....	601.18	50.62
32 33 33 00-0055 EA 27" Square, 30" High, Square Timber Planter .....	1,160.80	50.62
32 33 33 00-0056 EA 34" Square, 30" High, Square Timber Planter .....	1,003.16	50.62
32 33 33 00-0057 EA 41" Square, 36" High, Square Timber Planter .....	1,200.21	50.62
32 33 33 00-0058 EA 54" Square, 36" High, Square Timber Planter .....	3,123.41	50.62
32 33 33 00-0059 EA 81" Square, 36" High, Square Timber Planter .....	4,707.68	50.62
<b>32 33 33 00-0060 Rectangular Timber Planters (32 33 33 00-0051)</b>		
32 33 33 00-0061 EA 21" x 14", 30" High, Rectangular Timber Planter .....	593.30	50.62
32 33 33 00-0062 EA 27" x 14", 30" High, Rectangular Timber Planter .....	664.24	50.62
32 33 33 00-0063 EA 27" x 21", 30" High, Rectangular Timber Planter .....	877.05	50.62
32 33 33 00-0064 EA 34" x 21", 30" High, Rectangular Timber Planter .....	971.63	50.62
32 33 33 00-0065 EA 41" x 21", 30" High, Rectangular Timber Planter .....	1,255.38	50.62

**32 Exterior Improvements****32 30 Site Improvements****32 33 Site Furnishings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 33 00-0066 EA 34" x 27", 30" High, Rectangular Timber Planter .....	1,460.31	50.62
32 33 33 00-0067 EA 41" x 27", 30" High, Rectangular Timber Planter .....	1,633.72	50.62
32 33 33 00-0068 EA 54" x 27", 30" High, Rectangular Timber Planter .....	2,130.28	50.62
32 33 33 00-0069 EA 54" x 34", 30" High, Rectangular Timber Planter .....	2,406.15	50.62
32 33 33 00-0070 EA 68" x 34", 36" High, Rectangular Timber Planter .....	2,745.07	50.62
32 33 33 00-0071 EA 54" x 41", 36" High, Rectangular Timber Planter .....	2,611.08	50.62
32 33 33 00-0072 EA 68" x 41", 36" High, Rectangular Timber Planter .....	2,957.89	50.62
32 33 33 00-0073 EA 81" x 41", 36" High, Rectangular Timber Planter .....	3,312.57	50.62
<b>32 33 43 Site Seating and Tables (32 33)</b>		
<b>32 33 43 53 Site Tables (32 33 43)</b>		
<b>32 33 43 53-0001 Picnic Tables (32 33 43 53)</b>		
<b>32 33 43 53-0002 Wooden Picnic Tables (32 33 43 53-0001)</b>		
32 33 43 53-0003 EA 6' Permanent Rectangular Redwood Table .....	1,081.81	63.28
<b>32 33 43 53-0004 Portable Picnic Tables (32 33 43 53-0001)</b>		
32 33 43 53-0005 EA 6' Wood Table With Aluminum Frame .....	1,390.21	42.19
32 33 43 53-0006 EA 6' Aluminum Table And Frame .....	2,021.29	42.19
32 33 43 53-0007 EA 8' Aluminum Table And Frame .....	2,411.30	52.74
32 33 43 53-0008 EA 6' Steel Table And Frame .....	1,264.84	42.19
32 33 43 53-0009 EA 8' Steel Table And Frame .....	1,447.30	52.74
<b>32 33 43 53-0010 Concrete Picnic Tables (32 33 43 53-0001)</b>		
32 33 43 53-0011 EA 72" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches (Quikcrete QLBT72PT) .....	2,482.67	168.75
32 33 43 53-0012 EA 96" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches (Quick Crete QLBT96PT Or QLMR96PT) .....	2,944.08	
Note: Standard sealer		
32 33 43 53-0013 EA 102" Long x 72" Wide, Precast Concrete, One Piece, Rectangular Picnic Table With Two Integral Benches And Handicap Access On Two Ends (Quick Crete QLMR102PTADA) .....	2,953.42	
Note: Standard sealer		
32 33 43 53-0014 EA 42" Diameter, Precast Concrete, Round Food Court Table Set With Four Benches (Quick Crete QR42FC) .....	3,128.41	
Note: Includes table top, four benches and mounting hardware.		
<b>32 33 43 53-0015 Plastic Picnic Tables (32 33 43 53-0001)</b>		
Note: Manufactured from recycled plastic.		
<b>32 33 43 53-0016 Pedestal Tables - 4' Square, 2 Seats (32 33 43 53-0015)</b>		
32 33 43 53-0017 EA 3" x 4" Slats, Pedestal Table, 4' Square, 2 Seats .....	1,468.95	63.28
32 33 43 53-0018 EA 4" x 4" Slats, Pedestal Table, 4' Square, 2 Seats .....	1,611.54	63.28
<b>32 33 43 53-0019 Pedestal Tables - 4' Square, 4 Seats (32 33 43 53-0015)</b>		
32 33 43 53-0020 EA 3" x 4" Slats, Pedestal Table, 4' Square, 4 Seats .....	1,931.35	63.28
32 33 43 53-0021 EA 4" x 4" Slats, Pedestal Table, 4' Square, 4 Seats .....	2,122.83	63.28
<b>32 33 43 53-0022 Recycled Plastic Tables (32 33 43 53-0015)</b>		
32 33 43 53-0023 EA 6' Standard "Step-Over" Table, Recycled Plastic Lumber .....	2,535.66	63.28
32 33 43 53-0024 EA 6' "Walk-Through" Table, Recycled Plastic Lumber .....	2,108.63	63.28
32 33 43 53-0025 EA 7' Reinforced "Step-Over" Table, Recycled Plastic Lumber, ADA Ends .....	2,304.88	63.28
32 33 43 53-0026 EA 8' "Walk-Through" Table, Recycled Plastic Lumber, ADA Ends .....	2,154.16	63.28
32 33 43 53-0027 EA 8' Reinforced "Step-Over" Table, Recycled Plastic Lumber, ADA Ends .....	2,715.82	63.28
32 33 43 53-0028 EA 4' Youth Table, Recycled Plastic Lumber .....	1,072.66	50.62
<b>32 33 53 Site Grills (32 33)</b>		
<b>32 33 53 00-0001 Picnic Grills (32 33 53)</b>		
32 33 53 00-0002 EA 20" Wide x 14" Deep x 8-1/2" High Adjustable Grill .....	418.90	
Note: 11 gauge with galvanized steel post.		
32 33 53 00-0003 EA 20" Wide x 14" Deep x 8-1/2" High Adjustable Grill .....	448.79	
Note: 7 gauge with galvanized steel post.		
<b>32 33 63 Skate Board Deterrent (32 33)</b>		
<b>32 33 63 00-0001 Skate Stoppers (32 33 63)</b>		
32 33 63 00-0002 EA Aluminum Architectural Series Pieces, Skate Stopper .....	61.66	
Note: Various shapes. Includes drilling and anchoring into suitable surface material.		
For >59 To 99, Deduct	-6.73	
For >99 To 249, Deduct	-8.48	
For >249, Deduct	-10.22	





		<b>Exterior Improvements</b>	<b>32</b>
		Site Improvements	32 30
		Site Furnishings	32 33

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 33 63 00-0003	EA		Aluminum Fixed Angle Series Pieces, Skate Stopper ..... Note: Various shapes. Includes drilling and anchoring into suitable surface material.	65.43	
			<i>For &gt;59 To 99, Deduct</i>	-7.26	
			<i>For &gt;99 To 249, Deduct</i>	-9.12	
			<i>For &gt;249, Deduct</i>	-10.98	
32 33 63 00-0004	EA		Aluminum Fixed Radius Series Pieces, Skate Stopper ..... Note: Various shapes. Includes drilling and anchoring into suitable surface material.	45.59	
			<i>For &gt;59 To 99, Deduct</i>	-4.48	
			<i>For &gt;99 To 249, Deduct</i>	-5.75	
			<i>For &gt;249, Deduct</i>	-7.01	
32 33 63 00-0005	EA		Aluminum Bench Clips, Skate Stopper ..... Note: Various shapes. Includes drilling and anchoring into suitable surface material.	36.13	
			<i>For &gt;59 To 99, Deduct</i>	-3.16	
			<i>For &gt;99 To 249, Deduct</i>	-4.14	
			<i>For &gt;249, Deduct</i>	-5.12	
32 33 63 00-0006	EA		Aluminum Curve Clips, Skate Stopper ..... Note: Various shapes. Includes drilling and anchoring into suitable surface material.	39.67	
			<i>For &gt;59 To 99, Deduct</i>	-3.66	
			<i>For &gt;99 To 249, Deduct</i>	-4.74	
			<i>For &gt;249, Deduct</i>	-5.83	
32 33 63 00-0007	EA		Aluminum Hand Rail, Skate Stopper ..... Note: Various shapes. Includes drilling and anchoring into suitable surface material.	37.88	
			<i>For &gt;59 To 99, Deduct</i>	-3.41	
			<i>For &gt;99 To 249, Deduct</i>	-4.44	
			<i>For &gt;249, Deduct</i>	-5.47	
32 33 63 00-0008	EA		Aluminum 2" x 3" x 0.25" Flat Cap, Skate Stopper ..... Note: Includes drilling and anchoring into suitable surface material.	35.55	
			<i>For &gt;59 To 99, Deduct</i>	-3.08	
			<i>For &gt;99 To 249, Deduct</i>	-4.04	
			<i>For &gt;249, Deduct</i>	-5.00	
32 33 63 00-0009	EA		Aluminum 6" Diameter x 0.25" Rumble Disc, Skate Stopper ..... Note: Includes drilling and anchoring into suitable surface material.	50.00	
			<i>For &gt;59 To 99, Deduct</i>	-5.10	
			<i>For &gt;99 To 249, Deduct</i>	-6.50	
			<i>For &gt;249, Deduct</i>	-7.89	
32 33 63 00-0010	EA		Aluminum 4" x 17" x 0.25" Flat Strap, Skate Stopper ..... Note: Includes drilling and anchoring into suitable surface material.	93.37	
			<i>For &gt;59 To 99, Deduct</i>	-11.17	
			<i>For &gt;99 To 249, Deduct</i>	-13.87	
			<i>For &gt;249, Deduct</i>	-16.57	

**32 39 Manufactured Site Specialties** (32 30)

Note: Excludes coredrilling, augering, concrete footing and compaction See CSI section 02 41 19 13-0025 for concrete core drilling, 02 41 19 13-0163 for asphalt core drilling, 32 31 13 13-0002 for augering, 32 31 13 13-0019 for concrete footing, 32 31 13 13-0045 for compaction of earth.

**32 39 13 Manufactured Metal Bollards** (32 39)

**32 39 13 00-0001 Metal Pipe Bollards** (32 39 13)

Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill for post and post holes.

**32 39 13 00-0002 Steel Pipe Bollard, Schedule 40 Pipe, Painted Or Powder Coated** (32 39 13 00-0001)

32 39 13 00-0003	LF		4" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated ..... <i>For Galvanized Steel, Add</i>	108.60	13.02
			<i>For 304 Stainless Steel, Add</i>	14.03	
			<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	111.44	
			<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>	128.20	
			<i>For Schedule 80, Add</i>	90.02	
			<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	14.99	
				11.13	
32 39 13 00-0004	LF		6" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated ..... <i>For Galvanized Steel, Add</i>	156.26	13.02
			<i>For 304 Stainless Steel, Add</i>	22.14	
			<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	175.78	
			<i>For Each Sleeve For Removable, Lockable Bollard (Includes Tamper Proof Screw), Add</i>	128.20	
			<i>For Schedule 80, Add</i>	90.02	
			<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	22.14	
				15.86	
32 39 13 00-0005	LF		8" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated ..... <i>For Galvanized Steel, Add</i>	225.68	16.29
			<i>For 304 Stainless Steel, Add</i>	32.83	
			<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	260.71	
			<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	168.24	
			<i>For Schedule 80, Add</i>	133.28	
			<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	32.22	
				21.20	
32 39 13 00-0006	LF		10" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated ..... <i>For Galvanized Steel, Add</i>	303.30	19.54
			<i>For 304 Stainless Steel, Add</i>	44.92	
			<i>For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add</i>	356.71	
			<i>For Each Sleeve For Removable, Lockable Bollard, Add</i>	194.28	
			<i>For Schedule 80, Add</i>	146.30	
			<i>For Concrete Fill, Add Per LF Of Pipe Bollard</i>	43.54	
				26.02	

**32 Exterior Improvements****32 30 Site Improvements****32 39 Manufactured Site Specialties**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 13 00-0007 LF 12" Steel Pipe Bollard, Schedule 40, Painted Or Powder Coated.....	380.00	26.05
For Galvanized Steel, Add	55.74	
For 304 Stainless Steel, Add	442.67	
For Each Surface Mounted Bollard (Includes Base Plate And Anchor Bolts), Add	267.40	
For Each Sleeve For Removable, Lockable Bollard, Add	201.07	
For Schedule 80, Add	54.40	
For Concrete Fill, Add Per LF Of Pipe Bollard	30.51	
<b>32 39 23 Manufactured Concrete Bollards (32 39)</b>		
<b>32 39 23 00-0001 Concrete Bollards (32 39 23)</b>		
Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
<b>32 39 23 00-0002 Concrete Bollard, Exposed Aggregate (32 39 23 00-0001)</b>		
32 39 23 00-0003 EA 12" x 12" x 30" High Concrete Bollard, Light Media Blast .....	787.03	104.21
Note: Surface mounted with anchor bolts embedded into grout pockets.		
32 39 23 00-0004 EA 12" Diameter x 30" High Concrete Bollard, Light Media Blast.....	787.03	104.21
Note: Surface mounted with anchor bolts embedded into grout pockets.		
<b>32 39 25 Manufactured Wood Bollards (32 39)</b>		
<b>32 39 25 00-0001 Wood Bollards (32 39 25)</b>		
Note: For bollards by the LF, the quantity is the total length, including the buried portion, if any. See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
<b>32 39 25 00-0002 Wood Bollard, Pressure Treated Timber (32 39 25 00-0001)</b>		
32 39 25 00-0003 LF 4" x 4", Pressure Treated Wood Bollard .....	23.90	10.42
For Each Sleeve For Removable, Lockable Bollard, Add	88.70	
32 39 25 00-0004 LF 6" x 6", Pressure Treated Wood Bollard .....	27.13	10.42
For Each Sleeve For Removable, Lockable Bollard, Add	88.70	
32 39 25 00-0005 LF 8" x 8", Pressure Treated Wood Bollard .....	34.64	11.72
For Each Sleeve For Removable, Lockable Bollard, Add	132.08	
32 39 25 00-0006 LF 10" x 10", Pressure Treated Wood Bollard .....	48.72	15.63
For Each Sleeve For Removable, Lockable Bollard, Add	147.72	
32 39 25 00-0007 LF 12" x 12", Pressure Treated Wood Bollard .....	66.82	20.84
For Each Sleeve For Removable, Lockable Bollard, Add	204.45	
<b>32 39 27 Manufactured Plastic Bollards (32 39)</b>		
<b>32 39 27 00-0001 Plastic Bollards (32 39 27)</b>		
See CSI section 32 31 13 13-0001 for augering and filling holes for bollards., 32 31 13 13-0018 for concrete fill.		
<b>32 39 27 00-0002 Recycled Plastic Bollards (32 39 27 00-0001)</b>		
32 39 27 00-0003 EA 6" x 6" x 33" Surface Mounted Recycled Plastic Bollard .....	349.27	52.10
Note: Includes anchor bolts.		
32 39 27 00-0004 EA 6" Diameter x 6" Steel Reinforced Recycled Plastic Bollard.....	567.43	52.10
<b>32 39 27 00-0005 Plastic Bollard Covers (32 39 27 00-0001)</b>		
32 39 27 00-0006 EA 4" x 60", 1/8" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe.....	86.57	10.89
For Reflective Tape, Add	10.29	
32 39 27 00-0007 EA 6" x 60", 1/8" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	93.51	11.99
For Reflective Tape, Add	10.29	
32 39 27 00-0008 EA 3" x 60", 1/4" Thick LDPE Bollard Cover, Fits 3" To 3 1/2" Pipe .....	118.98	10.89
For Reflective Tape, Add	10.29	
32 39 27 00-0009 EA 3-1/2" x 52", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe.....	118.98	10.89
For Reflective Tape, Add	10.29	
32 39 27 00-0010 EA 3-1/2" x 68", 1/4" Thick LDPE Bollard Cover, Fits 3-1/2" To 4" Pipe.....	134.10	10.89
For Reflective Tape, Add	10.29	
32 39 27 00-0011 EA 4" x 52", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe.....	118.98	10.89
For Reflective Tape, Add	10.29	
32 39 27 00-0012 EA 4" x 60", 1/4" Thick LDPE Bollard Cover, Fits 4" To 4-1/2" Pipe.....	121.14	10.89
For Reflective Tape, Add	10.29	
32 39 27 00-0013 EA 5" x 52", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe .....	118.98	10.89
For Reflective Tape, Add	10.29	
32 39 27 00-0014 EA 5" x 60", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe .....	121.14	10.89
For Reflective Tape, Add	10.29	
32 39 27 00-0015 EA 5" x 72", 1/4" Thick LDPE Bollard Cover, Fits 5" To 5-9/16" Pipe .....	170.82	10.89
For Reflective Tape, Add	10.29	
32 39 27 00-0016 EA 6" x 52", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	121.16	11.99
For Reflective Tape, Add	10.29	
32 39 27 00-0017 EA 6" x 65", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	155.72	11.99
For Reflective Tape, Add	10.29	
32 39 27 00-0018 EA 6" x 84", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe .....	177.76	11.99
For Reflective Tape, Add	10.29	
32 39 27 00-0019 EA 7" x 56", 1/4" Thick LDPE Bollard Cover, Fits 6" To 6-5/8" Pipe.....	149.27	13.08
For Reflective Tape, Add	10.29	
32 39 27 00-0020 EA 8" x 52", 1/4" Thick LDPE Bollard Cover, Fits 7" To 7-5/16" Pipe .....	162.23	13.08
For Reflective Tape, Add	10.29	
32 39 27 00-0021 EA 8" x 69", 1/4" Thick LDPE Bollard Cover, Fits 8" To 8-5/8" Pipe.....	162.23	13.08
For Reflective Tape, Add	10.29	



<b>Exterior Improvements</b>	<b>32</b>	<b>32</b>
<b>Site Improvements</b>	<b>32 30</b>	
<b>Manufactured Site Specialties</b>	<b>32 39</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 39 27 00-0022 EA 10" x 69", 1/4" Thick LDPE Bollard Cover, Fits 10" To 11" Pipe <i>For Reflective Tape, Add</i>	220.57 10.29	13.08
<b>32 39 29 Manufactured Stone Bollards (32 39)</b>		
32 39 29 00-0001 Stone Bollards (32 39 29) See CSI section 32 31 13 13-0001 for augering and filling holes for bollards, 32 31 13 13-0018 for concrete fill.		
32 39 29 00-0002 Granite Bollards (32 39 29 00-0001)		
32 39 29 00-0003 EA 16" x 16" x 30" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	1,244.57	130.26
32 39 29 00-0004 EA 16" x 16" x 54" Granite Bollard, Smooth Matt Finish Note: Surface mounted with anchors embedded into grout pockets.	1,581.38	182.36
32 39 29 00-0005 EA 12" x 12" x 24" Granite Bollard, Rough Finish, Pyramid Top Note: Surface mounted with anchors embedded into grout pockets.	786.53	130.26
32 39 29 00-0006 EA 12" Diameter x 18" Granite Bollard, Smooth Matt Finish Note: Flat Top, surface mounted with anchors embedded into grout pockets.	1,138.79	104.21
32 39 29 00-0007 EA 24" x 24" x 20" Granite Bollard, Octagonal Cross Section Note: Smooth matt finish, flat top, surface mounted with anchors embedded into grout pockets.	1,684.50	104.21
<b>32 80 Irrigation (32)</b>		
<b>32 84 Planting Irrigation (32 80)</b>		
<b>32 84 13 Drip Irrigation (32 84)</b>		
32 84 13 00-0001 Drip Emitter Irrigation Devices (32 84 13)		
32 84 13 00-0002 Drip Emitter Irrigation Valves (32 84 13 00-0001)		
32 84 13 00-0003 EA 1/2" Air/Vacuum Relief Valve For Drip Emitter Irrigation Systems (Rain Bird® ARV050)	63.24	15.31
32 84 13 00-0004 EA 1", Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV100)	98.09	15.31
32 84 13 00-0005 EA 3/4", Anti-Siphon, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075)	95.66	15.31
32 84 13 00-0006 EA 3/4", Latching Solenoid, Low Flow Remote Control Valve For Drip Emitter Irrigation Systems (Rain Bird® LRV075TBOS)	128.40	15.31
32 84 13 00-0007 Drip Emitter Irrigation Filters (32 84 13 00-0001)		
32 84 13 00-0008 EA 3/4" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-075)	197.60	15.31
32 84 13 00-0009 EA 1" Inlet/Outlet, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® QKCHK-100)	199.40	15.31
32 84 13 00-0010 EA 3/4" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY075MPTX)	78.46	15.31
32 84 13 00-0011 EA 1" Inlet/Outlet, Inline Wye Filter For Drip Emitter Irrigation Systems (Rain Bird® RBY100MPTX)	79.90	15.31
32 84 13 00-0012 EA 1" Inlet/Outlet, Pressure Regulating, Inline Basket Filter For Drip Emitter Irrigation Systems (Rain Bird® PRB-QCHK-100)	214.37	15.31
32 84 13 00-0013 EA 3/4" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF075RBY)	100.13	15.31
32 84 13 00-0014 EA 1" Inlet/Outlet, Pressure Regulating, Inline RBY Filter For Drip Emitter Irrigation Systems (Rain Bird® PRF100RBY)	111.42	15.31
32 84 13 00-0015 Drip Emitter Irrigation Pressure Regulators (32 84 13 00-0001)		
32 84 13 00-0016 EA 3/4", 6 To 300 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-L30X-075)	77.00	15.31
32 84 13 00-0017 EA 3/4", 120 To 600 GPH, 30 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M30X-075)	77.00	15.31
32 84 13 00-0018 EA 3/4", 120 To 600 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-075)	77.00	15.31
32 84 13 00-0019 EA 1", 120 To 900 GPH, 40 PSI, Inline Pressure Regulator For Drip Emitter Irrigation Systems (Rain Bird® PSI-M40X-100)	88.86	15.31
32 84 13 00-0020 Drip Emitter Irrigation Tubing (32 84 13 00-0001) Note: Includes surface installation and covering of tubing with existing pine straw, pine bark etc.		
32 84 13 00-0021 LF 1/4", Landscape Dripline With Extruded Non-Pressure Compensating Drip Emitters (Rain Bird® LDQ0806100)	5.66	2.14
32 84 13 00-0022 LF 1/2", Landscape Dripline With Extruded Pressure Compensating Drip Emitters (Rain Bird® XFD0612100)	5.23	2.45
32 84 13 00-0023 LF 1/4", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XQ100) <i>For Shallow Trenching And Backfill By Hand, Add</i>	4.52 8.80	2.14
32 84 13 00-0024 LF 1/2", UV-Resistant, Polyethylene, Distribution Tubing For Drip Emitter Irrigation Systems (Rain Bird® XT700100) <i>For Shallow Trenching And Backfill By Hand, Add</i>	5.33 9.54	2.45
32 84 13 00-0025 Drip Emitter Irrigation Fittings (32 84 13 00-0001)		
32 84 13 00-0026 EA 1/4", Barbed Coupling For Irrigation Tubing (Rain Bird® XBF1CONN)	4.05	
32 84 13 00-0027 EA 1/4", Barbed Elbow For Irrigation Tubing (Rain Bird® XBF2EL)	4.09	
32 84 13 00-0028 EA 1/4", Barbed Tee For Irrigation Tubing (Rain Bird® XBF3TEE)	4.15	
32 84 13 00-0029 EA 1/4", Self Piercing Barbed Coupling For Irrigation Tubing (Rain Bird® SPB025)	4.37	
32 84 13 00-0030 EA 1/4", Plug For Irrigation Tubing (Rain Bird® EMAGPX)	4.01	
32 84 13 00-0031 EA 17mm, Barbed Coupling For Irrigation Tubing (Rain Bird® XFFCOUP) <i>For Compression Fitting, Add</i>	4.26 0.43	
32 84 13 00-0032 EA 17mm, Barbed Elbow For Irrigation Tubing (Rain Bird® XFF-ELBOW) <i>For Compression Fitting, Add</i>	4.38 0.55	

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 13 00-0033 EA 17mm, Barbed Tee For Irrigation Tubing (Rain Bird® XFF-TEE) .....	4.44	
<i>For Compression Fitting, Add</i> .....	0.61	
32 84 13 00-0034 EA 17mm, Barbed Male Adapter For Irrigation Tubing (Rain Bird® XFFMA050) .....	4.48	
<i>For Compression Fitting, Add</i> .....	0.65	
32 84 13 00-0035 EA 17mm, Barbed Cross For Irrigation Tubing (Rain Bird® XFDCROSS) .....	4.74	
<i>For Compression Fitting, Add</i> .....	0.91	
32 84 13 00-0036 EA 1/2", Plug For Irrigation Tubing (Rain Bird® MDCFCAP) .....	5.03	
32 84 13 00-0037 EA 12 Gauge, Galvanized Stake For Irrigation Tubing (Rain Bird® TDS050BEND) .....	2.48	
<b>32 84 13 00-0038 Drip Emitters (32 84 13 00-0001)</b>		
32 84 13 00-0039 EA 0.5 To 2 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB20PC) .....	8.32	
32 84 13 00-0040 EA 5 To 24 GPH, Single Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® PC24) .....	9.47	
32 84 13 00-0041 EA 0.5 To 2 GPH, Six Outlet, Pressure Compensating Emitter For Drip Emitter Irrigation Systems (Rain Bird® XB056) .....	19.64	
<b>32 84 13 00-0042 Drip Emitter Irrigation Micro-Bubblers, Sprays And Misters (32 84 13 00-0001)</b>		
32 84 13 00-0043 EA Adjustable Stream Bubbler With Spike For Drip Emitter Irrigation Systems (Rain Bird® SXB360SPYK) .....	32.41	13.78
32 84 13 00-0044 EA Adjustable Micro Spray With Spike For Drip Emitter Irrigation Systems (Rain Bird® XS360TSPYK) .....	32.47	13.78
32 84 13 00-0045 EA 12" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP12 With SQFUL) .....	35.66	13.78
32 84 13 00-0046 EA 24" Height, Riser Assembly With Pressure Compensating Nozzle For Drip Emitter Irrigation Systems (Rain Bird® SQADP24 With SQFUL) .....	36.00	13.78
32 84 13 00-0047 EA 4" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-400X With SQFUL) .....	52.00	18.07
Note: Includes nozzle.		
32 84 13 00-0048 EA 6" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP-600X With SQFUL) .....	56.10	18.07
Note: Includes nozzle.		
32 84 13 00-0049 EA 12" Pop-Up Height, Micro Spray Pop-Ups For Drip Emitter Irrigation Systems (Rain Bird® XP1200X With SQFUL) .....	56.61	18.07
Note: Includes nozzle.		
<b>32 84 13 00-0050 Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS) (32 84 13 00-0001)</b>		
Note: Brown or purple tubing. Includes layout, trenching 4" to 6", installing tubing and backfilling trench.		
32 84 13 00-0051 LF 0.536" ID, 0.634" OD, Subsurface Drip Emitter Irrigation Tubing (Rain Bird® XFS Copper Shield) .....	5.97	2.68
<b>32 84 23 Underground Sprinklers (32 84)</b>		
<b>32 84 23 00-0001 Sprinkler Heads (32 84 23)</b>		
<b>32 84 23 00-0002 Spray Sprinkler Heads (32 84 23 00-0001)</b>		
Note: Includes plastic riser and case. Includes spray, variable arc or bubbler nozzle with partial or full circle coverage.		
32 84 23 00-0003 EA 2" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1802P) .....	45.91	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0004 EA 4" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1804P) .....	43.58	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0005 EA 6" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1806P) .....	52.21	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0006 EA 12" Pop-Up Height, Spray Sprinkler Head (Rain Bird® 1812P) .....	59.43	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0007 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1804-SAM) .....	46.83	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0008 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1806-SAM) .....	58.97	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0009 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve (Rain Bird® 1812-SAM) .....	64.82	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0010 EA 4" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1804-PRS) .....	50.29	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0011 EA 6" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1806-PRS) .....	61.36	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0012 EA 12" Pop-Up Height, Spray Sprinkler Head With Pressure Regulator (Rain Bird® 1812-PRS) .....	66.81	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0013 EA 4" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1804-SAM-PRS) .....	51.67	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0014 EA 6" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1806-SAM-PRS) .....	68.66	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0015 EA 12" Pop-Up Height, Spray Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 1812-SAM-PRS) .....	74.04	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0016 EA Bubbler Head With Screen, 1/2" NPT (Rain Bird® 1300) .....	39.05	16.91
<i>For Rotary Nozzle, Add</i> .....	3.25	
32 84 23 00-0017 EA Pressure Compensating Bubbler With Screen, 1/2" NPT (Rain Bird® 1400) .....	44.45	16.91
<b>32 84 23 00-0018 Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0001)</b>		
Note: Maximum spacing is equivalent to maximum radius.		
<b>32 84 23 00-0019 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Heads (32 84 23 00-0018)</b>		
Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		



		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0020	EA		4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 3504PC) ..... <i>For Non-Potable Cover, Add</i>	62.97 2.00	16.91
32 84 23 00-0021	EA		4" Pop-Up Height, 1/2" Inlet, Up To 35' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 3504-PC-SAM) ..... <i>For Non-Potable Cover, Add</i>	64.89 2.00	16.91
<b>32 84 23 00-0022</b>			<b>3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Heads</b> <small>(32 84 23 00-0018)</small> Note: Includes plastic riser and case, standard rubber cover and nozzle with partial or full circle coverage.		
32 84 23 00-0023	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5004-PLPC) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	58.36 2.00 9.00	16.91
32 84 23 00-0024	EA		6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 5006-PLPC) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	79.11 2.00 9.00	16.91
32 84 23 00-0025	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5004-PLPCS) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	62.20 2.00 9.00	16.91
32 84 23 00-0026	EA		6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5006-PLPCS) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	82.19 2.00 9.00	16.91
32 84 23 00-0027	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Pressure Regulator (Rain Bird® 5004+PCR) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	63.74 2.00 9.00	16.91
32 84 23 00-0028	EA		4" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5004+FCSR) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	66.81 2.00 9.00	16.91
32 84 23 00-0029	EA		6" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5006+PCSR) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	86.80 2.00 9.00	16.91
32 84 23 00-0030	EA		12" Pop-Up Height, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5012+PCSR) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	99.10 2.00 9.00	16.91
32 84 23 00-0031	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve (Rain Bird® 5000S-PLPCS) ..... <i>For Non-Potable Cover, Add</i>	66.43 2.00	16.91
32 84 23 00-0032	EA		Shrub Type, 3/4" Inlet, Up To 55' Spacing, Gear-Drive, Rotary Sprinkler Head With Check Valve And Pressure Regulator (Rain Bird® 5000S+PCSR) ..... <i>For Non-Potable Cover, Add</i>	78.73 2.00	16.91
<b>32 84 23 00-0033</b>			<b>1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Heads</b> <small>(32 84 23 00-0018)</small> Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0034	EA		4" Pop-Up Height, 1" Inlet, Up To 65' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® F4PC) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i> <i>For Stainless Steel Riser And High Speed Rotor, Add</i>	107.94 2.00 9.00 56.58	16.91
<b>32 84 23 00-0035</b>			<b>1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Heads</b> <small>(32 84 23 00-0018)</small> Note: Includes plastic riser and case, standard rubber cover, check valve and nozzle with partial or full circle coverage.		
32 84 23 00-0036	EA		5" Pop-Up Height, 1" Inlet, Up To 80' Spacing, Gear-Drive, Rotary Sprinkler Head (Rain Bird® 8005) ..... <i>For Non-Potable Cover, Add</i> <i>For Stainless Steel Riser, Add</i>	152.52 2.00 9.00	16.91
<b>32 84 23 00-0037</b>			<b>Impact-Drive Sprinkler Heads</b> <small>(32 84 23 00-0001)</small> Note: Includes partial or full circle coverage. Maximum spacing is equivalent to maximum radius.		
32 84 23 00-0038	EA		1/2" Inlet, Up To 45' Spacing, Pop-Up, Impact-Drive Rotary Sprinkler Head (Rain Bird® 2045A-08) ..... <i>For Non-Potable Cover, Add</i>	86.42 2.00	16.91
32 84 23 00-0039	EA		1/2" Inlet, Up To 45' Spacing, Riser Mounted, Plastic Body, Impact-Drive Sprinkler Head (Rain Bird® 2045-PJ08) .....	67.97	16.91
32 84 23 00-0040	EA		3/4" Inlet, Up To 51' Spacing, Riser Mounted, Brass/Bronze Body, Impact-Drive Sprinkler Head (Rain Bird® 35A-ADJ-TNTB) .....	129.43	16.91
<b>32 84 23 00-0041</b>			<b>Electric Remote Control Irrigation Valves</b> <small>(32 84 23)</small>		
<b>32 84 23 00-0042</b>			<b>0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® DV Series)</b> <small>(32 84 23 00-0041)</small> Note: 15 to 150 PSI.		
32 84 23 00-0043	EA		3/4", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 75DV) .....	193.55	70.49
32 84 23 00-0044	EA		1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DV) .....	193.55	70.49
32 84 23 00-0045	EA		1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100DVSS) .....	213.69	80.36
32 84 23 00-0046	EA		1", 0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Angle Valve (Rain Bird® 100DVA) .....	195.08	70.49

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0047		<b>0.2 To 22 GPM, Plastic, Electric Remote Control Irrigation Valves With Flow Control (Rain Bird® DVF Series)</b> (32 84 23 00-0041) Note: 15 to 150 PSI.		
32 84 23 00-0048	EA	1", 0.2 To 40 GPM, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVF) .....	195.08	70.49
32 84 23 00-0049	EA	1", 0.2 To 40 GPM, Slip-On, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFSS) .....	215.99	80.36
32 84 23 00-0050	EA	1", 0.2 To 40 GPM, Male x Barb, Plastic, Electric Remote Control Irrigation Valve With Flow Control (Rain Bird® 100DVFMB) .....	217.53	80.36
32 84 23 00-0051		<b>0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves (Rain Bird® PEB Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI.		
32 84 23 00-0052	EA	1", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 100PEB) .....	318.07	70.49
32 84 23 00-0053	EA	1-1/2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 150PEB) .....	371.88	70.49
32 84 23 00-0054	EA	2", 0.25 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve (Rain Bird® 200PEB) .....	441.06	70.49
32 84 23 00-0055		<b>5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® PEB PRS-D Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0056	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100PEB PRS-D) .....	452.95	79.23
32 84 23 00-0057	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150PEB PRS-D) .....	506.76	79.23
32 84 23 00-0058	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200PEB PRS-D) .....	575.94	79.23
32 84 23 00-0059		<b>20 To 200 GPM, Plastic, Electric Remote Control Irrigation Valves With Pressure Regulator And Scrubber Valve (Rain Bird® PESB PRS-D Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0060	EA	1", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 100PESB PRS-D) .....	529.82	79.23
32 84 23 00-0061	EA	1-1/2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 150PESB PRS-D) .....	583.63	79.23
32 84 23 00-0062	EA	2", 5 To 200 GPM, Plastic, Electric Remote Control Irrigation Valve With Pressure Regulator And Scrubber Valve (Rain Bird® 200PESB PRS-D) .....	652.81	79.23
32 84 23 00-0063		<b>0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves (Hunter IBV Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure.		
32 84 23 00-0064	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B) .....	471.11	70.49
32 84 23 00-0065	EA	1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B) .....	718.49	70.49
32 84 23 00-0066	EA	2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B) .....	740.85	70.49
32 84 23 00-0067	EA	3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B) .....	1,734.86	95.16
32 84 23 00-0068		<b>5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Rain Bird® EFB-CP Series)</b> (32 84 23 00-0041) Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0069	EA	1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 100EFB-CP) .....	436.27	79.23
32 84 23 00-0070	EA	1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 125EFB-CP) .....	509.84	79.23
32 84 23 00-0071	EA	1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 150EFB-CP) .....	589.70	79.23
32 84 23 00-0072	EA	2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Rain Bird® 200EFB-CP) .....	694.86	79.23
32 84 23 00-0073		<b>0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves (Hunter IBV FS Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0074	EA	1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-101G-B-FS) .....	574.55	79.23
32 84 23 00-0075	EA	1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-151G-B-FS) .....	868.04	79.23
32 84 23 00-0076	EA	2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-201G-B-FS) .....	893.20	79.23
32 84 23 00-0077	EA	3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve (Hunter IBV-301G-B-FS) .....	1,851.95	79.23
32 84 23 00-0078		<b>0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV ACCU-SYNC Series)</b> (32 84 23 00-0041) Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0079	EA	1", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-101G-B ACCU-SYNC-ADJ) .....	582.92	70.49



		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0080 EA 1-1/2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-151G-B ACCU-SYNC-ADJ).....	830.29	70.49
32 84 23 00-0081 EA 2", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-201G-B ACCU-SYNC-ADJ).....	852.65	70.49
32 84 23 00-0082 EA 3", 0.1 To 300 GPM, Brass, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV-301G-B ACCU-SYNC-ADJ).....	1,846.67	95.16
<b>32 84 23 00-0083 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Rain Bird® EFB-CP PRS-D Series) (32 84 23 00-0041)</b>		
Note: 15 to 200 PSI operating range pressure and 15 to 100 PSI pressure regulation.		
32 84 23 00-0084 EA 1", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 100EFB-CP PRS-D).....	551.58	79.23
32 84 23 00-0085 EA 1-1/4", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 125EFB-CP PRS-D).....	625.14	79.23
32 84 23 00-0086 EA 1-1/2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 150EFB-CP PRS-D).....	705.01	79.23
32 84 23 00-0087 EA 2", 5 To 200 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Rain Bird® 200EFB-CP PRS-D).....	810.16	79.23
<b>32 84 23 00-0088 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valves With Pressure Regulator (Hunter IBV FS ACCU-SYNC Series) (32 84 23 00-0041)</b>		
Note: 20 to 200 PSI operating range pressure and 20 to 100 PSI pressure regulation.		
32 84 23 00-0089 EA 1", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-101G-B-FS ACCU-SYNC-ADJ).....	686.35	79.23
32 84 23 00-0090 EA 1-1/2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-151G-B-FS ACCU-SYNC-ADJ).....	979.85	79.23
32 84 23 00-0091 EA 2", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-201G-B-FS ACCU-SYNC-ADJ).....	1,005.01	79.23
32 84 23 00-0092 EA 3", 0.1 To 300 GPM, Brass, Contamination Proof, Electric Remote Control Irrigation Valve With Pressure Regulator (Hunter IBV-301G-B-FS ACCU-SYNC-ADJ).....	1,963.76	79.23
<b>32 84 23 00-0093 Other Electric Remote Control Valves/Accessories (32 84 23 00-0041)</b>		
32 84 23 00-0094 EA Pressure Regulator Module For Electric Remote Control Valves (Rain Bird® PRS-DIAL).....	171.69	
<b>32 84 23 00-0095 Remote Control Valve Assemblies (32 84 23 00-0041)</b>		
Note: Includes excavation and disposal of soil, installation of 6" minimum depth gravel or crushed rock, woven wire cloth, valve, fittings, valve box (Carson 1419-12), as detailed in the Caltrans Standard Plans 2010 page 224.		
32 84 23 00-0096 EA 1" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	653.73	176.23
32 84 23 00-0097 EA 1-1/2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	707.53	176.23
32 84 23 00-0098 EA 2" Glass-Filled Nylon Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® PEB) And Box (Carson 1419-12).....	776.72	176.23
32 84 23 00-0099 EA 1" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	730.59	176.23
Note: Purple components for use with recycled water		
32 84 23 00-0100 EA 1-1/2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	784.40	176.23
Note: Purple components for use with recycled water		
32 84 23 00-0101 EA 2" Glass-Filled Nylon Remote Control Scrubber Valve With Flow Control And Captured Solenoid (Rain Bird® PESB-R) And Box (Carson 1419-12).....	853.58	176.23
Note: Purple components for use with recycled water		
32 84 23 00-0102 EA 1" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	752.35	176.23
Note: Purple components for use with recycled water		
32 84 23 00-0103 EA 1-1/2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	905.78	176.23
Note: Purple components for use with recycled water		
32 84 23 00-0104 EA 2" Brass Remote Control Valve With Flow Control And Captured Solenoid (Rain Bird® EFB-CP-R) And Box (Carson 1419-12).....	1,010.93	176.23
Note: Purple components for use with recycled water		
<b>32 84 23 00-0105 Irrigation Valve Boxes (32 84 23)</b>		
Note: Includes lid.		
32 84 23 00-0106 EA 6" Round Irrigation Valve Box With Lid (Rain Bird® PVB-6RND).....	118.80	50.75
32 84 23 00-0107 EA 7" Round Irrigation Valve Box With Lid (Rain Bird® VB-7RND).....	136.96	50.75
32 84 23 00-0108 EA 10" Round Irrigation Valve Box With Lid (Rain Bird® VB-10RND).....	179.69	66.82
32 84 23 00-0109 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-STD).....	290.94	97.56
32 84 23 00-0110 EA 21.8" x 16.6" x 12" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-STDH).....	296.07	97.56
32 84 23 00-0111 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lid (Rain Bird® VB-JMB).....	332.86	97.56
32 84 23 00-0112 EA 26.3" x 19.8" x 12.1" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-JMBH).....	337.24	97.56
32 84 23 00-0113 EA 33.1" x 23.8" x 15" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-SPRH).....	547.52	97.56
32 84 23 00-0114 EA 40.3" x 27.1" x 18" Depth, Rectangular Irrigation Valve Box With Lock (Rain Bird® VB-MAXH).....	819.86	97.56
32 84 23 00-0115 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Concrete Lid.....	441.25	126.46
For 12" Extension, Add	97.08	

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0116 EA Number 5 CALTRANS Concrete Valve Box With Non-Traffic Rated Steel Lid .....708.80		126.46
For 12" Extension, Add	97.08	
32 84 23 00-0117 EA 12" x 17" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1419-12).....237.62		84.59
32 84 23 00-0118 EA 15" x 21" x 12" Depth, Rectangular Irrigation Valve Box With Lid (Carson 1220-12).....335.17		97.56
32 84 23 00-0119 EA 10" Round Irrigation Valve Box With Lid (Carson 910-10).....185.89		66.82
<b>32 84 23 00-0120 Irrigation Controllers (32 84 23)</b>		
See CSI section 27 15 13 00-0531 for low voltage wiring.		
<b>32 84 23 00-0121 Irrigation Controllers (32 84 23 00-0120)</b>		
<b>32 84 23 00-0122 Irrigation Controllers (Rain Bird®) (32 84 23 00-0121)</b>		
<b>32 84 23 00-0123 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP Series) (32 84 23 00-0122)</b>		
<b>32 84 23 00-0124 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0123)</b>		
<b>32 84 23 00-0125 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-MEI Series) (32 84 23 00-0124)</b>		
32 84 23 00-0126 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series) .....418.81		33.75
32 84 23 00-0127 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series) .....584.19		33.75
32 84 23 00-0128 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....749.57		33.75
32 84 23 00-0129 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....914.96		33.75
32 84 23 00-0130 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....1,046.59		33.75
32 84 23 00-0131 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....1,216.19		33.75
32 84 23 00-0132 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-MEI Series).....1,385.80		33.75
<b>32 84 23 00-0133 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-ME Series) (32 84 23 00-0124)</b>		
32 84 23 00-0134 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....497.44		33.75
32 84 23 00-0135 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....662.82		33.75
32 84 23 00-0136 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....828.20		33.75
32 84 23 00-0137 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....993.59		33.75
32 84 23 00-0138 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....1,125.22		33.75
32 84 23 00-0139 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....1,294.82		33.75
32 84 23 00-0140 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-ME Series).....1,464.43		33.75
<b>32 84 23 00-0141 Four Program, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0123)</b>		
<b>32 84 23 00-0142 Four Program, Indoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTEI Series) (32 84 23 00-0141)</b>		
32 84 23 00-0143 EA 4-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....691.94		33.75
32 84 23 00-0144 EA 7-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....857.32		33.75
32 84 23 00-0145 EA 10-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....1,022.71		33.75
32 84 23 00-0146 EA 13-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....1,188.09		33.75
32 84 23 00-0147 EA 16-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....1,319.73		33.75
32 84 23 00-0148 EA 19-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....1,489.33		33.75
32 84 23 00-0149 EA 22-Station, Four Program, Indoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTEI Series).....1,658.93		33.75
32 84 23 00-0150 EA CALTRAN 206749 8 STATION IRRIGATION CONTROLLER (WALL MOUNTED) .....857.32		33.75
<b>32 84 23 00-0151 Four Program, Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-SMTE Series) (32 84 23 00-0141)</b>		
32 84 23 00-0152 EA 4-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series) .....750.86		33.75
32 84 23 00-0153 EA 7-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series) .....916.24		33.75
32 84 23 00-0154 EA 10-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series) .....1,081.63		33.75
32 84 23 00-0155 EA 13-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series) .....1,247.01		33.75
32 84 23 00-0156 EA 16-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series) .....1,378.64		33.75
32 84 23 00-0157 EA 19-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series) .....1,548.25		33.75
32 84 23 00-0158 EA 22-Station, Four Program, Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-SMTE Series) .....1,717.85		33.75
<b>32 84 23 00-0159 Accessories For ESP-ME/MEI Irrigation Controllers (32 84 23 00-0123)</b>		
32 84 23 00-0160 EA 3-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM3).....169.60		
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0161 EA 6-Station Expansion Module For ESP Series Irrigation Controllers (Rain Bird® ESP-SM6).....322.80		
Note: Use task for increasing capacity of existing ESP series irrigation controllers up to a maximum of 22-stations.		
32 84 23 00-0162 EA Smart Controller Upgrade Kit For ESP Series Irrigation Controllers (Rain Bird® ESPSMTEUPG).....489.74		
<b>32 84 23 00-0163 Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Series) (32 84 23 00-0122)</b>		





<b>Exterior Improvements</b>		<b>32</b>
Irrigation		32 80
Planting Irrigation		32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>32 84 23 00-0164</b>	<b>Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LX Basic Series) (32 84 23 00-0163)</b>		
32 84 23 00-0165	EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,010.31	33.75
32 84 23 00-0166	EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,219.72	33.75
32 84 23 00-0167	EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,432.94	33.75
32 84 23 00-0168	EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,642.34	33.75
32 84 23 00-0169	EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	1,855.56	33.75
32 84 23 00-0170	EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,064.96	33.75
32 84 23 00-0171	EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,278.18	33.75
32 84 23 00-0172	EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,487.59	33.75
32 84 23 00-0173	EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,700.80	33.75
32 84 23 00-0174	EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LX Basic Series).....	2,910.20	33.75
<b>32 84 23 00-0175</b>	<b>Four Program, Indoor/Outdoor Mount, Modular Irrigation Controllers (Rain Bird® ESP-LXME Series) (32 84 23 00-0163)</b>		
32 84 23 00-0176	EA 8-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,029.72	33.75
32 84 23 00-0177	EA 12-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,239.11	33.75
32 84 23 00-0178	EA 16-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,452.34	33.75
32 84 23 00-0179	EA 20-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,661.74	33.75
32 84 23 00-0180	EA 24-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	1,874.96	33.75
32 84 23 00-0181	EA 28-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,084.37	33.75
32 84 23 00-0182	EA 32-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,297.58	33.75
32 84 23 00-0183	EA 36-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,506.99	33.75
32 84 23 00-0184	EA 40-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,720.21	33.75
32 84 23 00-0185	EA 44-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	2,929.61	33.75
32 84 23 00-0186	EA 48-Station, Four Program, Indoor/Outdoor Mount, Modular Irrigation Controller (Rain Bird® ESP-LXME Series).....	3,142.82	33.75
<b>32 84 23 00-0187</b>	<b>Accessories For ESP-LX/LXME Irrigation Controllers (32 84 23 00-0163)</b>		
32 84 23 00-0188	EA Powder Coated Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMM).....	780.32	
32 84 23 00-0189	EA Powder Coated Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMPED + LXMM).....	1,818.04	
	Note: Excludes concrete foundation.		
32 84 23 00-0190	EA Stainless Steel Wall Cabinet For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSS).....	1,743.20	
32 84 23 00-0191	EA Stainless Steel Cabinet And Pedestal For ESP-LX/LXME Irrigation Controllers (Rain Bird® LXMMSSPED + LXMMSS).....	3,877.27	
	Note: Excludes concrete foundation.		
32 84 23 00-0192	EA 4-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM4).....	209.40	
	Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0193	EA 8-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM8).....	422.62	
	Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0194	EA 12-Station Expansion Module For ESP-LX/LXME Irrigation Controllers (Rain Bird® ESPLXMSM12).....	658.25	
	Note: Use task for increasing capacity of existing ESP-LX/LXME irrigation controllers up to a maximum of 48-stations.		
32 84 23 00-0195	EA Flow Smart Water Management Module For ESP-LXME Irrigation Controllers (Rain Bird® FSM-LXME).....	248.64	
<b>32 84 23 00-0196</b>	<b>Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0122)</b>		
<b>32 84 23 00-0197</b>	<b>Three Program, Battery-Operated, Buriable Irrigation Control Modules (Rain Bird® TBOS-II Series) (32 84 23 00-0196)</b>		
32 84 23 00-0198	EA 1-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	501.66	33.75
32 84 23 00-0199	EA 2-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	602.13	33.75
32 84 23 00-0200	EA 4-Station, Three Program, Battery-Operated, Buriable Irrigation Control Module (Rain Bird® TBOS-II Series).....	738.28	33.75
<b>32 84 23 00-0201</b>	<b>Accessories For TBOS-II Series Irrigation Controllers (32 84 23 00-0196)</b>		
32 84 23 00-0202	EA Field Transmitter For TBOS-II Series Irrigation Controllers (Rain Bird® TBOS2FTUS).....	667.34	
32 84 23 00-0203	EA Potted Latching Solenoid For TBOS-II Series Irrigation Controllers (Rain Bird® TBOSPSOL).....	122.27	25.31
<b>32 84 23 00-0204</b>	<b>Accessories For Irrigation Controllers (Rain Bird®) (32 84 23 00-0122)</b>		
32 84 23 00-0205	EA Wired Rain Sensor For Irrigation Controllers (Rain Bird® RSDDBEX).....	164.17	25.31
32 84 23 00-0206	EA Wireless Rain Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RC).....	346.07	25.31
32 84 23 00-0207	EA Wireless Rain/Freeze Sensor And Controller Interface For Irrigation Controllers (Rain Bird® WR2RFC).....	368.95	25.31
32 84 23 00-0208	EA Soil Moisture Sensor And Controller Interface For Irrigation Controllers (Rain Bird® SMRT-Y).....	567.25	25.31
<b>32 84 23 00-0209</b>	<b>Two-Wire Decoder Systems (32 84 23 00-0120)</b>		
<b>32 84 23 00-0210</b>	<b>Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0209)</b>		
<b>32 84 23 00-0211</b>	<b>Controllers For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series) (32 84 23 00-0210)</b>		
	Note: Includes water resistant cabinet.		
32 84 23 00-0212	EA 50-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	3,019.02	33.75

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0213 EA 125-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	4,200.71	33.75
32 84 23 00-0214 EA 200-Station, Modular Controller For Two-Wire Decoder Systems (Rain Bird® ESP-LXD Series).....	5,382.39	33.75
<b>32 84 23 00-0215 Field Decoders For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0210)</b>		
32 84 23 00-0216 EA One Individual Valve Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD101TURF).....	363.07	33.75
32 84 23 00-0217 EA One Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD102TURF).....	463.84	33.75
32 84 23 00-0218 EA Two Pair Of Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD202TURF).....	698.52	33.75
32 84 23 00-0219 EA Up To Four Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD401TURF).....	860.17	33.75
32 84 23 00-0220 EA Up To Six Individual Valves Interface, Field Decoder For Two-Wire Decoder System (Rain Bird® FD601TURF).....	1,438.82	33.75
<b>32 84 23 00-0221 Accessories For Two-Wire Decoder Systems (Rain Bird®) (32 84 23 00-0210)</b>		
32 84 23 00-0222 EA 50-Station Replacement Base Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® MOD50-LXD).....	2,224.78	
32 84 23 00-0223 EA 75-Station Expansion Module For ESP-LXD Series Two Wire Decoder Based Controllers (Rain Bird® SPLXDSM75).....	1,181.69	
32 84 23 00-0224 EA Line Surge Protection For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® LSP1TURF).....	273.42	29.53
32 84 23 00-0225 EA Sensor Decoder Interface For ESP-LXD Series Two-Wire Decoder Systems (Rain Bird® SD210TURF).....	1,295.13	33.75
<b>32 84 23 00-0226 Calsense Controllers (32 84 23 00-0120)</b>		
<b>32 84 23 00-0227 Irrigation Controllers (32 84 23 00-0226)</b>		
32 84 23 00-0228 EA 6 Station ET-Driven Irrigation Controller (Calsense ET2000E-6).....	2,771.55	84.38
32 84 23 00-0229 EA 8 Station ET-Driven Irrigation Controller (Calsense ET2000E-8).....	3,579.53	94.92
32 84 23 00-0230 EA 12 Station ET-Driven Irrigation Controller (Calsense ET2000E-12).....	4,920.18	105.46
32 84 23 00-0231 EA 16 Station ET-Driven Irrigation Controller (Calsense ET2000E-16).....	5,416.53	105.46
32 84 23 00-0232 EA 24 Station ET-Driven Irrigation Controller (Calsense ET2000E-24).....	6,406.12	116.01
32 84 23 00-0233 EA 32 Station ET-Driven Irrigation Controller (Calsense ET2000E-32).....	7,737.78	116.01
32 84 23 00-0234 EA 40 Station ET-Driven Irrigation Controller (Calsense ET2000E-40).....	8,763.66	126.56
32 84 23 00-0235 EA 48 Station ET-Driven Irrigation Controller (Calsense ET2000E-48).....	9,816.89	126.56
32 84 23 00-0236 EA Upgrade Existing Calsense Controller To ET2000E (Calsense ET2000E-UPGRADE).....	2,835.76	42.19
32 84 23 00-0237 EA Upgrade Existing Calsense Controller With 8 Additional Stations (Calsense STATION UPGRADE).....	1,184.93	42.19
<b>32 84 23 00-0238 Irrigation Controller Accessories (32 84 23 00-0226)</b>		
32 84 23 00-0239 EA Set Of 10 Keys For Calsense Controllers Or Enclosures (Calsense KEY-1).....	116.22	
32 84 23 00-0240 EA Spare Lock For Enclosures (Calsense PAD).....	125.90	
32 84 23 00-0241 EA Hardware And Software For Up To 4 Additional Light Circuits (Calsense L).....	146.99	10.55
32 84 23 00-0242 EA Transformer For Irrigation Controllers (Calsense TR-1).....	205.44	42.19
32 84 23 00-0243 EA AC Line Protection For Irrigation Controllers (Calsense TP-110).....	580.73	42.19
32 84 23 00-0244 EA Transient Protection Board For Irrigation Controller Stations (Calsense TP-1).....	774.42	42.19
<i>For Outdoor Gray Powder Coated Stainless Steel Enclosure, Add</i>	353.56	
<b>32 84 23 00-0245 Sensors For Irrigation Controllers (32 84 23 00-0226)</b>		
<b>32 84 23 00-0246 Flow Sensors (32 84 23 00-0245)</b>		
32 84 23 00-0247 EA 1-1/2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 1.5).....	1,361.38	63.28
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-982.00	
32 84 23 00-0248 EA 2" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 2).....	1,409.80	63.28
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,030.42	
32 84 23 00-0249 EA 3" Polyvinyl Chloride (PVC) Schedule 80 Tee Mounted Flow Meter (Calsense FM 3).....	1,458.23	63.28
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,078.85	
32 84 23 00-0250 EA 1" Brass Tee Mounted Flow Meter (Calsense FM 1B).....	1,609.37	84.38
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,229.68	
32 84 23 00-0251 EA 1-1/4" Brass Tee Mounted Flow Meter (Calsense FM 1.25B).....	1,730.43	84.38
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,350.74	
32 84 23 00-0252 EA 1-1/2" Brass Tee Mounted Flow Meter (Calsense FM 1.5B).....	1,778.85	84.38
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,399.16	
32 84 23 00-0253 EA 2" Brass Tee Mounted Flow Meter (Calsense FM 2B).....	2,093.61	84.38
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,585.74	
32 84 23 00-0254 EA 2" Pipe Saddle Mounted Insertion Flow Meter (Calsense FMBX).....	1,633.95	42.19
<i>Note: For 4" and larger pipe. Excludes pipe saddle.</i>		
<i>For Flow Meter Replacement Insert Only, Deduct</i>	-1,126.07	
<b>32 84 23 00-0255 Moisture Sensors (32 84 23 00-0245)</b>		
32 84 23 00-0256 EA Soil Moisture Sensor (Calsense 1000-S).....	571.73	31.64
<b>32 84 23 00-0257 Weather Sensors (32 84 23 00-0245)</b>		
32 84 23 00-0258 EA Wind Gage, Irrigation Weather Sensor (Calsense WG-1).....	1,560.95	84.38
32 84 23 00-0259 EA Tipping Rain Bucket, Irrigation Weather Sensor (Calsense RB-1).....	1,778.11	168.75
32 84 23 00-0260 EA ET Gage, Irrigation Weather Sensor (Calsense ETG).....	3,582.27	126.56
<b>32 84 23 00-0261 Weather Sensor Accessories (32 84 23 00-0245)</b>		
32 84 23 00-0262 EA Ceramic Cup For ET Gage Weather Sensor (Calsense ETG-C).....	1,052.86	
32 84 23 00-0263 EA Removal And Replacement Of Circuit Board For ET Gage Weather Sensor (Calsense ETG-PCB).....	1,997.14	



		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

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MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0264	EA Vandal Resistant Mounting Base For ET Gage Enclosure (Calsense ETGE-BASE).....	1,052.86	42.19
32 84 23 00-0265	EA Vandal Resistant Stainless Steel Enclosure For ET Gage (Calsense ETGE).....	2,451.29	42.19
<b>32 84 23 00-0266</b>	<b>Antennas For Irrigation Controllers (32 84 23 00-0226)</b>		
	Note: Excludes antenna cable.		
32 84 23 00-0267	EA Local Radio Dome Antenna (Calsense LR-DOME).....	544.41	42.19
32 84 23 00-0268	EA Local Radio Stick Antenna (Calsense LR-STICK).....	798.64	42.19
32 84 23 00-0269	EA Local Radio Yagi Antenna (Calsense LR-YAGI).....	883.01	84.38
32 84 23 00-0270	EA Local Radio And Calsense Radio, Remote Dome Antenna (Calsense LR-DOME-RR).....	544.41	42.19
32 84 23 00-0271	EA Local Radio And Calsense Radio, Enhanced Remote Dome Antenna (Calsense LR-DOME-RRE).....	544.41	42.19
32 84 23 00-0272	EA GPRS Stubby Antenna (Calsense GR-STUBBY).....	544.41	42.19
32 84 23 00-0273	EA GPRS Stick Antenna (Calsense GR-STICK).....	798.64	42.19
32 84 23 00-0274	EA Spread Spectrum Dome Antenna (Calsense SR-DOME).....	544.41	42.19
32 84 23 00-0275	EA Spread Spectrum Stick Antenna (Calsense SR-STICK).....	798.64	42.19
32 84 23 00-0276	EA Spread Spectrum Yagi Antenna (Calsense SR-YAGI).....	883.01	84.38
32 84 23 00-0277	EA Spread Spectrum And Calsense Radio, Remote Dome Antenna (Calsense SR-DOME-RR).....	544.41	42.19
32 84 23 00-0278	EA Spread Spectrum And Calsense Radio, Enhanced Remote Dome Antenna (Calsense SR-DOME-RRE).....	544.41	42.19
32 84 23 00-0279	EA Spread Spectrum Stubby Antenna (Calsense SR-STUBBY).....	544.41	42.19
32 84 23 00-0280	EA WiFi Stubby Antenna (Calsense WEN-STUBBY).....	544.41	42.19
32 84 23 00-0281	LF Antenna Cable With End Connectors (Calsense LMR-400-DB).....	15.05	0.50
32 84 23 00-0282	EA Surge Protection Device For Antenna (Calsense ANT-PROT).....	550.64	21.09
32 84 23 00-0283	EA 5' High, Non-Penetrating, Antenna Tripod Mount (Calsense ANT-TRIP5).....	895.49	42.19
32 84 23 00-0284	EA 3' Antenna Stand Off Mount For 3" Maximum Tower Leg (Calsense ANT-SOM).....	786.89	
32 84 23 00-0285	EA Local Radio Frequency Filter (Calsense LR-FILTER).....	1,113.76	
32 84 23 00-0286	EA Spread Spectrum Frequency Filter (Calsense SR-FILTER).....	823.21	
<b>32 84 23 00-0287</b>	<b>Pedestals And Enclosures For Irrigation Controllers (32 84 23 00-0226)</b>		
32 84 23 00-0288	EA 15 Amperes, Circuit Breaker With Enclosure For Irrigation Controllers (Calsense SSE-BREAKER).....	489.74	63.28
32 84 23 00-0289	EA Standard Gray Powder Coated Stainless Steel Controller Enclosure (Calsense C-BOX).....	1,201.43	105.46
32 84 23 00-0290	EA Indoor Wall Mount, Stainless Steel Back Panel (Calsense SSBP).....	1,355.52	42.19
	Note: Includes GFI and receptacle.		
32 84 23 00-0291	EA Standard Gray Powder Coated Stainless Steel Pedestal (Calsense PD-1).....	1,624.96	31.64
	Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0292	EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE).....	5,113.15	31.64
	Note: Includes factory installed transient protection board and AC line protection.		
32 84 23 00-0293	EA Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-R).....	5,777.34	31.64
	Note: Includes factory installed transient protection board, AC line protection and dome antenna.		
32 84 23 00-0294	EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D).....	8,377.38	63.28
	Note: Includes factory installed transient protection boards and AC line protection. Pre-wired for two controllers.		
32 84 23 00-0295	EA Double-Wide Heavy-Duty Stainless Steel Enclosure For Irrigation Controllers (Calsense SSE-D-R).....	8,781.84	63.28
	Note: Includes factory installed transient protection boards, AC line protection and dome antenna. Pre-wired for two controllers.		
32 84 23 00-0296	EA Bolt Mounting Template For Heavy-Duty Stainless Steel Enclosures (Calsense SSE-CAM).....	285.22	
32 84 23 00-0297	EA Stainless Steel Fully Enclosed Riser For Calsense SSE Enclosures (Calsense SSE-PED).....	922.81	
<b>32 84 23 00-0298</b>	<b>Central Computer For Irrigation Control Systems (32 84 23 00-0226)</b>		
32 84 23 00-0299	EA Central Computer For Irrigation Control Systems (Calsense COMP-2).....	6,445.56	
	Note: Includes a minimum of 133 MHz Pentium, 32 Meg Ram, 1.2 GB hard drive, 14.4 modem and a printer. Excludes Command Center Water Management software.		
32 84 23 00-0300	EA Command Center Water Management Software For Central Computer (Calsense COMM-1).....	11,420.04	
32 84 23 00-0301	EA Up To 5 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-5).....	2,188.26	
	Note: Package price for up to 5 users. Includes remote communication through internet connection.		
32 84 23 00-0302	EA >5 To 10 Simultaneous Users Capacity, Calsense Advantage Client/Server Database Add-On (Calsense CS-10).....	4,317.45	
	Note: Package price for 6 to 10 users. Includes remote communication through internet connection.		
32 84 23 00-0303	EA Data Logger With Phone Modem For Irrigation Control Systems (Calsense DL-2).....	6,954.55	
32 84 23 00-0304	EA GPRS Radio For Use At Central Computer (Calsense DTR-G).....	4,160.08	
<b>32 84 23 00-0305</b>	<b>Data Access Service (32 84 23 00-0226)</b>		
32 84 23 00-0306	EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN).....	35.22	
	Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0307	EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR).....	385.19	
	Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0308	EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR).....	1,650.82	
	Note: For communication between GPRS unit and up to 2 controllers.		
32 84 23 00-0309	EA 1 Month, Data Access Plan For Up To 2 Controllers (Calsense COMM-1MN-M).....	143.07	
	Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0310	EA 1 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-1YR-M).....	1,540.77	
	Note: For communication between GPRS unit and multiple controllers.		
32 84 23 00-0311	EA 5 Year, Data Access Plan For Up To 2 Controllers (Calsense COMM-5YR-M).....	6,603.30	
	Note: For communication between GPRS unit and multiple controllers.		
<b>32 84 23 00-0312</b>	<b>Communication Options For Irrigation Controllers (32 84 23 00-0226)</b>		
32 84 23 00-0313	EA FCC License Fee (Calsense).....	229.28	
32 84 23 00-0314	EA P.C.I.A. And/or A.P.C.O. Fee (Calsense).....	449.39	
	Note: Per frequency or frequency pair.		
32 84 23 00-0315	EA Hardware Communication Option For Irrigation Controllers (Calsense M).....	1,276.64	
	Note: Allows multiple controllers to be chained together via a communications cable and share one phone line.		

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0316 EA Phone Line Communication Option For Irrigation Controllers (Calsense R).....	1,342.67	
32 84 23 00-0317 EA Ethernet Communication Option For Irrigation Controllers (Calsense EN).....	1,342.67	
32 84 23 00-0318 EA WiFi Communication Option For Irrigation Controllers (Calsense WEN).....	2,751.38	
32 84 23 00-0319 EA Local Radio Communication Option For Irrigation Controllers (Calsense LR).....	3,499.75	
32 84 23 00-0320 EA Spread Spectrum Radio Communication Option For Irrigation Controllers (Calsense SR).....	3,499.75	
32 84 23 00-0321 EA GPRS Radio Modem Communication Option For Irrigation Controllers (Calsense GR).....	3,499.75	
32 84 23 00-0322 EA Fiber Optic Modem Communication Option For Irrigation Controllers (Calsense FOM).....	11,225.61	
32 84 23 00-0323 EA Communication Hub For Irrigation Controllers (Calsense HUB).....	4,317.83	
Note: Accepts up to two communication options. Excludes communication options.		
<b>32 84 23 00-0324 Retrofit Options For Irrigation Controllers</b> (32 84 23 00-0226)		
<b>32 84 23 00-0325 Weather Retrofits For Irrigation Controllers</b> (32 84 23 00-0324)		
32 84 23 00-0326 EA Add One Flow Sensor Interface To An Existing Calsense Controller (Calsense F-RETRO).....	1,702.19	
32 84 23 00-0327 EA Add One ET Gage Interface To An Existing Calsense Controller (Calsense G-RETRO).....	1,702.19	
32 84 23 00-0328 EA Add One Tipping Rain Bucket Interface To An Existing Calsense Controller (Calsense RB-RETRO).....	1,702.19	
32 84 23 00-0329 EA Add One Wind Gage Interface To An Existing Calsense Controller (Calsense WG-RETRO).....	1,702.19	
<b>32 84 23 00-0330 Phone Communication Retrofits For Irrigation Controllers</b> (32 84 23 00-0324)		
32 84 23 00-0331 EA Add The Ability To Chain To Another Calsense Controller With The Phone Line Communication Option And Share One Phone Line (Calsense M-RETRO).....	1,790.23	
32 84 23 00-0332 EA Add The Phone Line Communication Option To An Existing Calsense Controller (Calsense R-RETRO).....	2,120.40	
32 84 23 00-0333 EA Add The Phone Line Communication Option And The Ability To Chain To Another Calsense Controller And Share One Phone Line (Calsense MLR-RETRO).....	3,408.04	
<b>32 84 23 00-0334 Local Radio Communication Retrofits For Irrigation Controllers</b> (32 84 23 00-0324)		
32 84 23 00-0335 EA Add The Ability To Chain To Another Calsense Controller With The Local Radio Communication Option And Share One Local Radio (Calsense ML-RETRO).....	2,010.34	
32 84 23 00-0336 EA Add The Local Radio Communication Option To An Existing Calsense Controller (Calsense LR-RETRO).....	4,255.46	
32 84 23 00-0337 EA Add The Local Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Local Radio (Calsense MLR-RETRO).....	5,532.10	
<b>32 84 23 00-0338 Spread Spectrum Radio Communication Retrofits For Irrigation Controllers</b> (32 84 23 00-0324)		
32 84 23 00-0339 EA Add The Ability To Chain To Another Calsense Controller With The Spread Spectrum Radio Communication Option And Share One Spread Spectrum Radio (Calsense MS-Retro).....	2,010.34	
32 84 23 00-0340 EA Add The Spread Spectrum Radio Communication Option To An Existing Calsense Controller (Calsense SR-RETRO).....	4,255.46	
32 84 23 00-0341 EA Add The Spread Spectrum Radio Communication Option And The Ability To Chain To Another Calsense Controller And Share One Spread Spectrum Radio (Calsense MSR-RETRO).....	5,532.10	
<b>32 84 23 00-0342 Ethernet Communication Retrofits For Irrigation Controllers</b> (32 84 23 00-0324)		
32 84 23 00-0343 EA Add The Ability To Chain To Another Calsense Controller With The Ethernet Communication Option And Share One Ethernet Device (Calsense ME-Retro).....	2,010.34	
32 84 23 00-0344 EA Add The Ethernet Communication Option To An Existing Calsense Controller (Calsense EN-RETRO).....	2,120.40	
32 84 23 00-0345 EA Add The Ethernet Communication Option And The Ability To Chain To Another Calsense Controller And Share One Ethernet Device (Calsense MEN-RETRO).....	3,408.04	
<b>32 84 23 00-0346 GPRS Radio Modem Communication Retrofits For Irrigation Controllers</b> (32 84 23 00-0324)		
32 84 23 00-0347 EA Add The Ability To Chain To Another Calsense Controller With The GPRS Communication Option And Share One GPRS Modem (Calsense MG-RETRO).....	2,010.34	
32 84 23 00-0348 EA Add The GPRS Communication Option To An Existing Calsense Controller (Calsense GR-RETRO).....	4,255.46	
32 84 23 00-0349 EA Add The GPRS Communication Option And The Ability To Chain To Another Calsense Controller And Share One GPRS Modem (Calsense MGR-RETRO).....	5,532.10	
<b>32 84 23 00-0350 Radio Remote Units For Irrigation Controllers</b> (32 84 23 00-0226)		
32 84 23 00-0351 EA Enhanced Radio Remote Hand-Held Transmitter With Carry Case (Calsense RRe-TRAN).....	2,021.35	
32 84 23 00-0352 EA Calsense Integrated Radio Remote Receiver Board (Calsense RR/RRe).....	435.82	
Note: Includes polyvinyl chloride (PVC) stick antenna. Excludes antenna cable.		
32 84 23 00-0353 EA Wall Mount Charger For Hand-Held Transmitter (Calsense RRTRAN-CHG).....	187.09	
32 84 23 00-0354 EA Removal And Replacement Of Battery For Hand-Held Transmitter (Calsense RRTRAN-BAT).....	329.24	
32 84 23 00-0355 EA Polyvinyl Chloride (PVC) Stick Antenna For Radio Remote Receiver Board (Calsense RR-ANT).....	208.18	10.55
Note: Excludes antenna cable.		
32 84 23 00-0356 EA Whip Antenna For Radio Remote Receiver Board (Calsense RRe-WHIP).....	406.28	10.55
Note: Excludes antenna cable.		
32 84 23 00-0357 EA Dome Antenna For Radio Remote Receiver Board (Calsense RR-Dome/RRe-Dome).....	439.30	10.55
Note: Excludes antenna cable.		
<b>32 84 23 00-0358 Satellite Irrigation Controllers (Rain Bird® ESP-SAT)</b> (32 84 23 00-0120)		
Note: Satellite controllers compatible with Maxi-Con Central Control. Includes link communication with SEMET at the controller and stainless steel cabinet. Excludes concrete pad.		
32 84 23 00-0359 EA 12 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP12SATLS).....	4,715.19	189.84
32 84 23 00-0360 EA 24 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP24SATLS).....	4,972.55	200.39



		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0361	EA		40 Station, Satellite Irrigation Controller With Stainless Steel Cabinet (Rain Bird® RBESP40SATLS) .....	6,925.82	210.93
<b>32 84 23 00-0362</b>			<b>LEIT Controllers</b> (32 84 23 00-0120)		
<b>32 84 23 00-0363</b>			<b>LEIT X Series Irrigation Controller</b> (32 84 23 00-0362)		
32 84 23 00-0364	EA		10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	4,444.43	33.75
32 84 23 00-0365	EA		12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	4,877.90	33.75
32 84 23 00-0366	EA		16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	5,578.74	33.75
32 84 23 00-0367	EA		20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	6,279.58	33.75
32 84 23 00-0368	EA		24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	6,772.11	33.75
32 84 23 00-0369	EA		28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) .....	7,264.65	33.75
<b>32 84 23 00-0370</b>			<b>LEIT X Series Irrigation Controller Assembly</b> (32 84 23 00-0362)		
Note: Includes excavation and concrete for footing, 2" diameter galvanized steel pole (minimum 18" bury), 2" sweeps, controller, and number 5 concrete box with non-traffic rated lid per detail.					
32 84 23 00-0371	EA		10 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole .....	5,004.62	176.96
32 84 23 00-0372	EA		12 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole .....	5,438.09	176.96
32 84 23 00-0373	EA		16 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole .....	6,138.93	176.96
32 84 23 00-0374	EA		20 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole .....	6,839.76	176.96
32 84 23 00-0375	EA		24 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole .....	7,332.29	176.96
32 84 23 00-0376	EA		28 Station, Four Program Ambient Light Irrigation Controller (LEIT X Series) Assembly Mounted On Pole .....	7,824.84	176.96
<b>32 84 23 00-0377</b>			<b>Enclosure For LEIT Controller Assembly</b> (32 84 23 00-0362)		
Note: Includes mounting bolts to concrete foundation and installation of enclosure per detail.					
32 84 23 00-0378	EA		12" x 12" x 54" Milled Steel, #9 Expanded Metal, Painted Per Detail, Enclosure With Access Hatch .....	3,397.78	244.70
Note: For LEIT Controller					
<b>32 84 23 00-0379</b>			<b>Hunter Controllers</b> (32 84 23 00-0120)		
<b>32 84 23 00-0380</b>			<b>Hunter XC Hybrid Controller</b> (32 84 23 00-0379)		
Note: Operates DC latching solenoids with battery power or a plug in 24 VAC transformer. Includes 6 AA batteries, outdoor stainless steel enclosure and installation of controller in Irrigation Controller Enclosure.					
32 84 23 00-0381	EA		6 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-600-SS) .....	720.65	84.38
32 84 23 00-0382	EA		12 Station Hybrid Irrigation Controller With Stainless Steel Enclosure (Hunter XCH-1200-SS) .....	917.42	105.46
<b>32 84 23 00-0383</b>			<b>DC Latching Solenoid</b> (32 84 23 00-0120)		
32 84 23 00-0384	EA		DC Latching Solenoid (Micro Power Solenoid) For Non-LEIT Controllers .....	39.03	
Note: As per manufacture of valve.					
32 84 23 00-0385	EA		DC Solenoid For LEIT Controllers (DIG S-305DC) .....	62.49	
<b>32 84 23 00-0386</b>			<b>Irrigation Controller Enclosure Cabinet</b> (32 84 23 00-0120)		
Note: Includes excavation, installation of concrete foundation, mounting bolts, sweeps, number 5 concrete pull box with non-traffic rated lid and installation of enclosure per detail.					
32 84 23 00-0387	EA		35" (H) x 18" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan) .....	3,183.60	463.68
32 84 23 00-0388	EA		35" (H) x 24" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan) .....	3,433.91	505.83
32 84 23 00-0389	EA		35" (H) x 36" (W) x 12" (D), 12 Gauge Cold Rolled Steel Irrigation Controller Enclosure Cabinet, Powdercoated (Tan) .....	3,798.30	547.99
32 84 23 00-0390	EA		35" (H) x 18" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Irrigation Controller Enclosure Cabinet, .....	3,183.63	463.68
32 84 23 00-0391	EA		35" (H) x 24" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet .....	3,433.91	505.83
32 84 23 00-0392	EA		35" (H) x 36" (W) x 12" (D), 0.125" 5052-H-32 Aluminum Steel Irrigation Controller Enclosure Cabinet .....	3,798.30	547.99
32 84 23 00-0393	EA		35" (H) x 18" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet .....	3,980.95	463.68
32 84 23 00-0394	EA		35" (H) x 24" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet .....	4,330.90	505.83
32 84 23 00-0395	EA		35" (H) x 36" (W) x 12" (D), Type 304 Stainless Steel Irrigation Controller Enclosure Cabinet .....	4,695.28	547.99
<b>32 84 23 00-0396</b>			<b>Irrigation Valves</b> (32 84 23)		
<b>32 84 23 00-0397</b>			<b>Reduced Pressure Zone Valves With QT Shut-Offs</b> (32 84 23 00-0396)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).					
32 84 23 00-0398	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) .....	870.91	58.19
32 84 23 00-0399	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....	1,034.36	71.05
32 84 23 00-0400	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....	1,550.68	82.69
32 84 23 00-0401	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....	1,642.98	94.94
32 84 23 00-0402	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....	1,976.09	122.50
<b>32 84 23 00-0403</b>			<b>Brass Quick-Coupling Irrigation Valves</b> (32 84 23 00-0396)		
32 84 23 00-0404	EA		3/4", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 3RC) .....	211.18	50.75
For Valve Key, Add				56.50	
32 84 23 00-0405	EA		3/4", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 33DRC) .....	217.71	50.75
For Locking Cover, Add				25.00	
For Valve Key, Add				56.50	

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0406 EA 1", 1-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44RC).....	289.59	50.75
<i>For Valve Key, Add</i>	144.51	
32 84 23 00-0407 EA 1", 2-Piece Brass Body, Quick-Coupling Irrigation Valve (Rain Bird® 44LRC).....	315.72	50.75
<i>For Valve Key, Add</i>	144.51	
32 84 23 00-0408 EA 1", 1-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 5NP).....	303.42	50.75
32 84 23 00-0409 EA 1", 2-Piece Brass Body, Non-Potable (Purple) Quick-Coupling Irrigation Valve (Rain Bird® 44NP).....	315.72	50.75
<b>32 84 23 00-0410 Anti-Siphon Pressure Type Vacuum Breaker (32 84 23 00-0396)</b>		
Note: Pressure: 15 to 150 PSI, temperature: 33 to 140 degrees Fahrenheit.		
32 84 23 00-0411 EA 3/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	311.04	42.87
32 84 23 00-0412 EA 1" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	440.00	49.00
32 84 23 00-0413 EA 1-1/4" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	784.32	56.66
32 84 23 00-0414 EA 1-1/2" Anti-Siphon Pressure Type Vacuum Breaker (Watts 800M4QT).....	954.10	62.79
32 84 23 00-0415 EA 2" Anti-Siphon Pressure Type Vacuum Breaker.....	967.60	76.57
<b>32 84 23 00-0416 Aluminum Cam And Groove Adapter (32 84 23 00-0396)</b>		
32 84 23 00-0417 EA 1-1/2" Type A Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Female Pipe Thread.....	52.52	
32 84 23 00-0418 EA 2" Type A Aluminum Cam And Groove Male Adapter x 2" NPT Female Pipe Thread.....	55.42	
32 84 23 00-0419 EA 1-1/2" Type F Aluminum Cam And Groove Male Adapter x 1-1/2" NPT Male Pipe Thread.....	53.78	
32 84 23 00-0420 EA 2" Type F Aluminum Cam And Groove Male Adapter x 2" NPT Male Pipe Thread.....	57.77	
<b>32 84 23 00-0421 Irrigation Piping (32 84 23)</b>		
<b>32 84 23 00-0422 Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0421)</b>		
Note: Install stabilizers every 20', at change of direction and at sprinkler heads less than 12" tall.		
<b>32 84 23 00-0423 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0422)</b>		
32 84 23 00-0424 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	4.46	1.41
<i>For &gt;1,000, Deduct</i>	-0.22	
32 84 23 00-0425 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.50	1.76
<i>For &gt;1,000, Deduct</i>	-0.28	
32 84 23 00-0426 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	6.79	2.11
<i>For &gt;1,000, Deduct</i>	-0.34	
32 84 23 00-0427 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	9.17	2.67
<i>For &gt;1,000, Deduct</i>	-0.46	
32 84 23 00-0428 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	11.65	3.36
<i>For &gt;1,000, Deduct</i>	-0.58	
32 84 23 00-0429 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	15.38	3.92
<i>For &gt;1,000, Deduct</i>	-0.77	
32 84 23 00-0430 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	20.94	5.64
<i>For &gt;1,000, Deduct</i>	-1.05	
32 84 23 00-0431 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	27.82	7.05
<i>For &gt;1,000, Deduct</i>	-1.39	
32 84 23 00-0432 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	41.22	8.81
<i>For &gt;1,000, Deduct</i>	-2.06	
<b>32 84 23 00-0433 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0422)</b>		
32 84 23 00-0434 LF 3/4" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.05	1.76
<i>For &gt;1,000, Deduct</i>	-0.25	
32 84 23 00-0435 LF 1" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	6.05	2.11
<i>For &gt;1,000, Deduct</i>	-0.30	
32 84 23 00-0436 LF 1-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	8.65	2.67
<i>For &gt;1,000, Deduct</i>	-0.43	
32 84 23 00-0437 LF 2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	11.22	3.36
<i>For &gt;1,000, Deduct</i>	-0.56	
32 84 23 00-0438 LF 2-1/2" Class 200 Polyvinyl Chloride (PVC) Socketweld Pipe With Fittings, On Grade With Pipe Stabilizers.....	14.72	3.92
<i>For &gt;1,000, Deduct</i>	-0.74	
32 84 23 00-0439 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	20.69	5.64
<i>For &gt;1,000, Deduct</i>	-1.03	
32 84 23 00-0440 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	29.21	7.05
<i>For &gt;1,000, Deduct</i>	-1.46	
32 84 23 00-0441 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	49.99	8.81
<i>For &gt;1,000, Deduct</i>	-2.50	
<b>32 84 23 00-0442 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, On Grade With Pipe Stabilizers (32 84 23 00-0422)</b>		
32 84 23 00-0443 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	5.42	1.76
<i>For &gt;1,000, Deduct</i>	-0.27	
32 84 23 00-0444 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	6.55	2.11
<i>For &gt;1,000, Deduct</i>	-0.33	
32 84 23 00-0445 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	9.62	2.67
<i>For &gt;1,000, Deduct</i>	-0.48	
32 84 23 00-0446 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers.....	12.83	3.36
<i>For &gt;1,000, Deduct</i>	-0.64	



		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0447 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers ..... <i>For &gt;1,000, Deduct</i>	17.30 -0.87	3.92
32 84 23 00-0448 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers ..... <i>For &gt;1,000, Deduct</i>	20.94 -1.05	5.64
32 84 23 00-0449 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers ..... <i>For &gt;1,000, Deduct</i>	27.82 -1.39	7.05
32 84 23 00-0450 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, On Grade With Pipe Stabilizers ..... <i>For &gt;1,000, Deduct</i>	42.08 -2.10	8.81
<b>32 84 23 00-0451 Irrigation Piping With Fittings, Trenching, Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0451)</small>		
Note: Install thrust blocks per Caltrans details for 3" piping and larger, upstream of remote control valve.		
<b>32 84 23 00-0452 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0451)</small>		
32 84 23 00-0453 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	7.65 -0.38	1.76
32 84 23 00-0454 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	8.96 -0.45	2.11
32 84 23 00-0455 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	11.33 -0.57	2.67
32 84 23 00-0456 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	13.81 -0.69	3.36
32 84 23 00-0457 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	17.54 -0.88	3.92
32 84 23 00-0458 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	23.11 -1.16	5.64
32 84 23 00-0459 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	29.97 -1.50	7.05
32 84 23 00-0460 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	43.37 -2.17	8.81
<b>32 84 23 00-0461 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0451)</small>		
32 84 23 00-0462 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	7.92 -0.40	1.76
32 84 23 00-0463 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	9.22 -0.46	2.11
32 84 23 00-0464 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	11.59 -0.58	2.67
32 84 23 00-0465 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	14.07 -0.70	3.36
32 84 23 00-0466 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	17.79 -0.89	3.92
32 84 23 00-0467 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	23.36 -1.17	5.64
32 84 23 00-0468 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	30.23 -1.51	7.05
32 84 23 00-0469 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	43.64 -2.18	8.81
<b>32 84 23 00-0470 Schedule 40 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0451)</small>		
32 84 23 00-0471 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	8.18 -0.41	1.76
32 84 23 00-0472 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	9.48 -0.47	2.11
32 84 23 00-0473 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	11.85 -0.59	2.67
32 84 23 00-0474 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	14.34 -0.72	3.36
32 84 23 00-0475 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	18.06 -0.90	3.92
32 84 23 00-0476 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	23.63 -1.18	5.64
32 84 23 00-0477 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	30.50 -1.53	7.05
32 84 23 00-0478 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	43.90 -2.20	8.81
<b>32 84 23 00-0479 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0451)</small>		
32 84 23 00-0480 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	7.42 -0.37	1.76
32 84 23 00-0481 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	8.57 -0.43	2.11
32 84 23 00-0482 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	11.36 -0.57	2.67

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0483 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	14.58	3.36
<i>For &gt;1,000, Deduct</i>	-0.73	
32 84 23 00-0484 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	18.81	3.92
<i>For &gt;1,000, Deduct</i>	-0.94	
32 84 23 00-0485 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	22.85	5.64
<i>For &gt;1,000, Deduct</i>	-1.14	
32 84 23 00-0486 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	31.36	7.05
<i>For &gt;1,000, Deduct</i>	-1.57	
32 84 23 00-0487 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	52.14	8.81
<i>For &gt;1,000, Deduct</i>	-2.61	
<b>32 84 23 00-0488 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0481)</small>		
32 84 23 00-0489 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	7.69	1.76
<i>For &gt;1,000, Deduct</i>	-0.38	
32 84 23 00-0490 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted.....	8.83	2.11
<i>For &gt;1,000, Deduct</i>	-0.44	
32 84 23 00-0491 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....	11.62	2.67
<i>For &gt;1,000, Deduct</i>	-0.58	
32 84 23 00-0492 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....	14.84	3.36
<i>For &gt;1,000, Deduct</i>	-0.74	
32 84 23 00-0493 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....	19.06	3.92
<i>For &gt;1,000, Deduct</i>	-0.95	
32 84 23 00-0494 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....	23.10	5.64
<i>For &gt;1,000, Deduct</i>	-1.16	
32 84 23 00-0495 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....	31.62	7.05
<i>For &gt;1,000, Deduct</i>	-1.58	
32 84 23 00-0496 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted .....	52.41	8.81
<i>For &gt;1,000, Deduct</i>	-2.62	
<b>32 84 23 00-0497 Class 200, SDR-21 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0451)</small>		
32 84 23 00-0498 LF 3/4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	7.95	1.76
<i>For &gt;1,000, Deduct</i>	-0.40	
32 84 23 00-0499 LF 1" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	9.09	2.11
<i>For &gt;1,000, Deduct</i>	-0.45	
32 84 23 00-0500 LF 1-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	11.88	2.67
<i>For &gt;1,000, Deduct</i>	-0.59	
32 84 23 00-0501 LF 2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted.....	15.11	3.36
<i>For &gt;1,000, Deduct</i>	-0.76	
32 84 23 00-0502 LF 2-1/2" Class 200, SDR-21 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	19.33	3.92
<i>For &gt;1,000, Deduct</i>	-0.97	
32 84 23 00-0503 LF 3" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	23.37	5.64
<i>For &gt;1,000, Deduct</i>	-1.17	
32 84 23 00-0504 LF 4" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	31.89	7.05
<i>For &gt;1,000, Deduct</i>	-1.59	
32 84 23 00-0505 LF 6" Class 200, SDR-21 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted .....	52.67	8.81
<i>For &gt;1,000, Deduct</i>	-2.63	
<b>32 84 23 00-0506 Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 12" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0451)</small>		
32 84 23 00-0507 LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	7.58	1.76
<i>For &gt;1,000, Deduct</i>	-0.38	
32 84 23 00-0508 LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	8.72	2.11
<i>For &gt;1,000, Deduct</i>	-0.44	
32 84 23 00-0509 LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	11.78	2.67
<i>For &gt;1,000, Deduct</i>	-0.59	
32 84 23 00-0510 LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted.....	14.99	3.36
<i>For &gt;1,000, Deduct</i>	-0.75	
32 84 23 00-0511 LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	19.46	3.92
<i>For &gt;1,000, Deduct</i>	-0.97	
32 84 23 00-0512 LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	23.11	5.64
<i>For &gt;1,000, Deduct</i>	-1.16	
32 84 23 00-0513 LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	29.97	7.05
<i>For &gt;1,000, Deduct</i>	-1.50	
32 84 23 00-0514 LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 12" Of Cover, Backfilled And Compacted .....	44.23	8.81
<i>For &gt;1,000, Deduct</i>	-2.21	





		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>32 84 23 00-0515</b>	<b>Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 18" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0451)</small>		
32 84 23 00-0516	LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	7.85 -0.39	1.76
32 84 23 00-0517	LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	8.98 -0.45	2.11
32 84 23 00-0518	LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	12.04 -0.60	2.67
32 84 23 00-0519	LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	15.25 -0.76	3.36
32 84 23 00-0520	LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	19.71 -0.99	3.92
32 84 23 00-0521	LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	23.36 -1.17	5.64
32 84 23 00-0522	LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	30.23 -1.51	7.05
32 84 23 00-0523	LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 18" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	44.50 -2.23	8.81
<b>32 84 23 00-0524</b>	<b>Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Irrigation Piping With Fittings, Trenching, 24" Of Cover, Backfilled And Compacted</b> <small>(32 84 23 00-0451)</small>		
32 84 23 00-0525	LF 3/4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	8.11 -0.41	1.76
32 84 23 00-0526	LF 1" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	9.24 -0.46	2.11
32 84 23 00-0527	LF 1-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	12.30 -0.62	2.67
32 84 23 00-0528	LF 2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	15.52 -0.78	3.36
32 84 23 00-0529	LF 2-1/2" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	19.98 -1.00	3.92
32 84 23 00-0530	LF 3" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	23.63 -1.18	5.64
32 84 23 00-0531	LF 4" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	30.50 -1.53	7.05
32 84 23 00-0532	LF 6" Class 315, SDR-13.5 Polyvinyl Chloride (PVC) Gasketed Pipe With Fittings, 24" Of Cover, Backfilled And Compacted ..... <i>For &gt;1,000, Deduct</i>	44.76 -2.24	8.81
<b>32 84 23 00-0533</b>	<b>Irrigation Riser Piping With Fittings</b> <small>(32 84 23 00-0421)</small>		
32 84 23 00-0534	EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV ..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	21.83	4.23
32 84 23 00-0535	EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 6" Exposed, Type IV ..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	23.93	5.29
32 84 23 00-0536	EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV ..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	23.69	4.94
32 84 23 00-0537	EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 12" Exposed, Type IV ..... Note: Includes #4 steel reinforcing bar, stainless steel hose clamp	26.25	6.16
32 84 23 00-0538	EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	46.55	7.40
32 84 23 00-0539	EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 24" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	50.19	9.25
32 84 23 00-0540	EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	55.08	9.51
32 84 23 00-0541	EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 36" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	59.77	11.90
32 84 23 00-0542	EA 1/2" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	63.62	11.63
32 84 23 00-0543	EA 3/4" Polyvinyl Chloride (PVC) Riser Pipe With Fittings, 48" Exposed, Type I ..... Note: Includes 2" diameter lodge poll support stake, two stainless steel sprinkler ties	69.36	14.54
<b>32 84 23 00-0544</b>	<b>Irrigation Crossover Piping With Fittings</b> <small>(32 84 23 00-0421)</small>		
	Note: Install per Caltrans details. Includes thrust blocks, HDPE sleeve pipe and fittings, 3" pvc irrigation piping and 1" electrical pvc conduit. Excludes #5 concrete irrigation pull boxes on ends, electrical control wiring. See CSI section 32 84 23 00-0105 for #5 concrete pull box, 32 84 23 00-0588 for irrigation wiring.		
<b>32 84 23 00-0545</b>	<b>Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench</b> <small>(32 84 23 00-0544)</small>		
32 84 23 00-0546	LF 6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation ..... <i>For &gt;1,000, Deduct</i>	59.87 -2.99	
32 84 23 00-0547	LF 8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation ..... <i>For &gt;1,000, Deduct</i>	86.30 -4.32	

**32 Exterior Improvements****32 80 Irrigation****32 84 Planting Irrigation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0548	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	120.87	
			<i>For &gt;1,000, Deduct</i>	-6.04	
32 84 23 00-0549	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 24" Open Trench Installation.....	161.07	
			<i>For &gt;1,000, Deduct</i>	-8.05	
<b>32 84 23 00-0550</b>			<b>Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench</b> <small>(32 84 23 00-0544)</small>		
32 84 23 00-0551	LF		6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	60.66	
			<i>For &gt;1,000, Deduct</i>	-3.03	
32 84 23 00-0552	LF		8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	87.18	
			<i>For &gt;1,000, Deduct</i>	-4.36	
32 84 23 00-0553	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	121.83	
			<i>For &gt;1,000, Deduct</i>	-6.09	
32 84 23 00-0554	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	162.11	
			<i>For &gt;1,000, Deduct</i>	-8.11	
<b>32 84 23 00-0555</b>			<b>Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench</b> <small>(32 84 23 00-0544)</small>		
32 84 23 00-0556	LF		6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 48" Open Trench Installation.....	61.44	
			<i>For &gt;1,000, Deduct</i>	-3.07	
32 84 23 00-0557	LF		8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	88.05	
			<i>For &gt;1,000, Deduct</i>	-4.40	
32 84 23 00-0558	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	122.79	
			<i>For &gt;1,000, Deduct</i>	-6.14	
32 84 23 00-0559	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), 36" Open Trench Installation.....	163.16	
			<i>For &gt;1,000, Deduct</i>	-8.16	
<b>32 84 23 00-0560</b>			<b>Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore</b> <small>(32 84 23 00-0544)</small>		
32 84 23 00-0561	LF		6" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation .....	115.04	
			<i>For &gt;1,000, Deduct</i>	-5.75	
32 84 23 00-0562	LF		8" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation .....	152.64	
			<i>For &gt;1,000, Deduct</i>	-7.63	
32 84 23 00-0563	LF		10" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation .....	192.70	
			<i>For &gt;1,000, Deduct</i>	-9.64	
32 84 23 00-0564	LF		12" Irrigation Crossover, Corrugated High Density Polyethylene Pipe (CHDPE), Directional Bore Installation .....	238.40	
			<i>For &gt;1,000, Deduct</i>	-11.92	
<b>32 84 23 00-0565</b>			<b>Below Ground Cam Adapter Assembly</b> <small>(32 84 23 00-0421)</small>		
			Note: Includes minimum 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0566	EA		Below Ground Cam Adapter Assembly.....	888.88	
			Note: Includes 6" depth gravel or crushed rock, woven wire cloth, jumbo valve box with 15" x 21.5" cover, 1-1/2" brass ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.		
<b>32 84 23 00-0567</b>			<b>Above Ground Cam Adapter Assembly</b> <small>(32 84 23 00-0421)</small>		
			Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe		
32 84 23 00-0568	EA		Above Ground Cam Adapter Assembly .....	557.59	
			Note: Includes concrete thrust block, 1-1/2" plastic ball valve, 1-1/2" aluminum male cam adapter x female NPT, 1-1/2" PVC elbow, 2" PVC reducing tee, 30" PVC pipe.		
<b>32 84 23 00-0569</b>			<b>Thrust Block</b> <small>(32 84 23 00-0421)</small>		
32 84 23 00-0570	EA		Thrust Block For 1-1/2" Pipe Size And Smaller.....	40.48	
32 84 23 00-0571	EA		Thrust Block For 2" Pipe .....	70.41	
32 84 23 00-0572	EA		Thrust Block For 3" And 4" Pipe .....	100.36	
32 84 23 00-0573	EA		Thrust Block For 6" Pipe .....	160.75	
32 84 23 00-0574	EA		Thrust Block For 8" Pipe .....	231.07	
<b>32 84 23 00-0575</b>			<b>Irrigation Swing Joints</b> <small>(32 84 23)</small>		
32 84 23 00-0576	EA		3/4" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12075) .....	80.51	28.06
32 84 23 00-0577	EA		1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint (Rain Bird® TSJ12) .....	91.57	31.32
32 84 23 00-0578	EA		1" Male NPT, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint With 70 PSI Pressure Regulator (Rain Bird® TSJ100PRS).....	122.32	31.32
32 84 23 00-0579	EA		1/2" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	58.79	36.57
			Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0580	EA		3/4" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	78.52	48.78
			Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0581	EA		1" Diameter, 12" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type I.....	98.50	59.82
			Note: Consists of three threaded 90 degree elbows and 12" threaded pipe.		
32 84 23 00-0582	EA		1/2" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II .....	83.69	37.14
			Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		



		<b>Exterior Improvements</b>	<b>32</b>
		Irrigation	32 80
		Planting Irrigation	32 84

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 84 23 00-0583 EA 3/4" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II.....	110.63	49.27
Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0584 EA 1" Diameter, 24" Length, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRAN Type II.....	135.93	60.43
Note: Consists of one threaded 90 degree elbow, one threaded x socket 90 degree elbow, one adapter and 24" threaded pipe.		
32 84 23 00-0585 EA 1/2" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III.....	47.14	22.74
Note: Consists of two street 90 degree elbows.		
32 84 23 00-0586 EA 3/4" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III.....	62.98	30.33
Note: Consists of two street 90 degree elbows.		
32 84 23 00-0587 EA 1" Diameter, Polyvinyl Chloride (PVC) Irrigation Swing Joint, CALTRANS Type III.....	74.58	37.60
Note: Consists of two street 90 degree elbows.		
<b>32 84 23 00-0588 Irrigation Control Wire (32 84 23)</b>		
Note: Excludes excavation and backfill.		
<b>32 84 23 00-0589 18 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)</b>		
32 84 23 00-0590 CLF 1-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	62.66	21.15
32 84 23 00-0591 CLF 2-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	81.02	24.67
32 84 23 00-0592 CLF 3-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	93.16	28.20
32 84 23 00-0593 CLF 4-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	106.44	31.72
32 84 23 00-0594 CLF 5-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	120.82	35.25
32 84 23 00-0595 CLF 6-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	143.17	38.77
32 84 23 00-0596 CLF 7-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	164.63	42.29
32 84 23 00-0597 CLF 8-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	178.83	45.81
32 84 23 00-0598 CLF 9-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	196.00	49.34
32 84 23 00-0599 CLF 10-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	215.52	52.86
32 84 23 00-0600 CLF 11-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	223.68	56.39
32 84 23 00-0601 CLF 12-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	232.98	59.91
32 84 23 00-0602 CLF 13-Conductor, 18 AWG, Irrigation Control Wire, Buried In Trench .....	245.89	63.44
<b>32 84 23 00-0603 16 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)</b>		
32 84 23 00-0604 CLF 1-Conductor, 16 AWG, Irrigation Control Wire, Buried In Trench .....	65.67	21.15
<b>32 84 23 00-0605 14 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)</b>		
32 84 23 00-0606 CLF 1-Conductor, 14 AWG, Irrigation Control Wire, Buried In Trench .....	65.67	21.15
<b>32 84 23 00-0607 12 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)</b>		
32 84 23 00-0608 CLF 1-Conductor, 12 AWG, Irrigation Control Wire, Buried In Trench .....	85.57	21.15
<b>32 84 23 00-0609 10 AWG, Irrigation Control Wire, Buried In Trench (32 84 23 00-0588)</b>		
32 84 23 00-0610 CLF 1-Conductor, 10 AWG, Irrigation Control Wire, Buried In Trench .....	110.78	21.15
<b>32 84 23 00-0611 Root Watering Systems (32 84 23)</b>		
Note: Includes swing assembly.		
32 84 23 00-0612 EA 0.25 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1401).....	129.74	28.20
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0613 EA 0.25 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1401) .....	139.91	28.20
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0614 EA 0.5 GPM Bubbler On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-1402).....	129.74	28.20
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0615 EA 0.5 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1402) .....	139.91	28.20
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0616 EA 1 GPM Bubbler And Check Valve On Riser, 36" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-B-C-1404) .....	139.91	28.20
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0617 EA 0.25 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1401) .....	112.60	24.67
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0618 EA 0.25 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1401) .....	122.36	24.67
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0619 EA 0.5 GPM Bubbler On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-1402) .....	112.60	24.67
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0620 EA 0.5 GPM Bubbler And Check Valve On Riser, 18" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-M-B-C-1402) .....	122.36	24.67
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0621 EA 0.25 GPM Bubbler On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-1401).....	75.94	21.15
For Root Watering Sand Sock, Add	1.59	
32 84 23 00-0622 EA 0.25 GPM Bubbler And Check Valve On Riser, 10" Tube, 4" Diameter Grate, Root Watering System (Rain Bird® RWS-S-B-C-1401).....	85.24	21.15
For Root Watering Sand Sock, Add	1.59	

**32 90 Planting** <sup>(32)</sup>

**32 Exterior Improvements**

**32 90 Planting**

**32 84 Planting Irrigation**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

Note: Plant installation includes the initial watering only. The extended watering period for the establishment of lawns, plants and trees is addressed on a per plant per amount per occurrence basis as directed in the specification. cvs = cultivar. See CSI section 32 01 90 26-0000 for additional "extended watering period" tasks.

**32 91 Planting Preparation** (32 90)

**32 91 13 Soil Preparation** (32 91)

**32 91 13 16 Mulching** (32 91 13)

**32 91 13 16-0001 Mulch** (32 91 13 16)

Note: Includes loading, delivery up to 15 miles and spreading. 1 CY = 108 SF of mulch spread 3" thick. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.

32 91 13 16-0002	CY Pea Gravel Mulch .....	124.35
	<i>For &gt;5 To 20, Deduct</i>	-9.75
	<i>For &gt;20 To 50, Deduct</i>	-14.62
	<i>For &gt;50, Deduct</i>	-20.84
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0003	CY Stone/Gravel Mulch, Marble Chips .....	339.95
	<i>For &gt;5 To 20, Deduct</i>	-20.53
	<i>For &gt;20 To 50, Deduct</i>	-30.79
	<i>For &gt;50, Deduct</i>	-47.79
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0004	CY Stone Mulch, Decomposed Granite Chips .....	192.31
	<i>For &gt;5 To 20, Deduct</i>	-13.15
	<i>For &gt;20 To 50, Deduct</i>	-19.72
	<i>For &gt;50, Deduct</i>	-29.33
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0005	CY Pine Bark Nugget Mulch .....	133.81
	<i>For &gt;5 To 20, Deduct</i>	-10.22
	<i>For &gt;20 To 50, Deduct</i>	-15.33
	<i>For &gt;50, Deduct</i>	-22.02
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0006	CY Hardwood Bark Nugget Mulch .....	131.28
	<i>For &gt;5 To 20, Deduct</i>	-10.09
	<i>For &gt;20 To 50, Deduct</i>	-15.14
	<i>For &gt;50, Deduct</i>	-21.70
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0007	CY Pine Wood Chip Mulch .....	126.22
	<i>For &gt;5 To 20, Deduct</i>	-9.84
	<i>For &gt;20 To 50, Deduct</i>	-14.76
	<i>For &gt;50, Deduct</i>	-21.07
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0008	CY Hardwood Chip Mulch .....	136.34
	<i>For &gt;5 To 20, Deduct</i>	-10.35
	<i>For &gt;20 To 50, Deduct</i>	-15.52
	<i>For &gt;50, Deduct</i>	-22.34
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0009	CY Shredded Hardwood Mulch .....	136.34
	<i>For &gt;5 To 20, Deduct</i>	-10.35
	<i>For &gt;20 To 50, Deduct</i>	-15.52
	<i>For &gt;50, Deduct</i>	-22.34
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0010	CY Shredded Pine Mulch .....	113.58
	<i>For &gt;5 To 20, Deduct</i>	-9.21
	<i>For &gt;20 To 50, Deduct</i>	-13.81
	<i>For &gt;50, Deduct</i>	-19.49
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0011	CY Shredded Cedar Mulch .....	162.89
	<i>For &gt;5 To 20, Deduct</i>	-11.67
	<i>For &gt;20 To 50, Deduct</i>	-17.51
	<i>For &gt;50, Deduct</i>	-25.66
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0012	CY Shredded Cypress Mulch .....	159.10
	<i>For &gt;5 To 20, Deduct</i>	-11.48
	<i>For &gt;20 To 50, Deduct</i>	-17.23
	<i>For &gt;50, Deduct</i>	-25.18
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0013	CY Shredded Redwood Mulch .....	169.21
	<i>For &gt;5 To 20, Deduct</i>	-11.99
	<i>For &gt;20 To 50, Deduct</i>	-17.99
	<i>For &gt;50, Deduct</i>	-26.45
	<i>For Work On Slopes &gt;2.5:1, Add</i>	14.12
32 91 13 16-0014	CY Chunk Recycled Tire Mulch .....	266.64
	<i>For &gt;5 To 20, Deduct</i>	-17.81
	<i>For &gt;20 To 50, Deduct</i>	-26.72
	<i>For &gt;50, Deduct</i>	-40.05
	<i>For Work On Slopes &gt;2.5:1, Add</i>	17.92
32 91 13 16-0015	CY Chunk Colored Recycled Tire Mulch .....	441.12
	<i>For &gt;5 To 20, Deduct</i>	-26.54
	<i>For &gt;20 To 50, Deduct</i>	-39.81
	<i>For &gt;50, Deduct</i>	-61.86
	<i>For Work On Slopes &gt;2.5:1, Add</i>	17.92



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Planting Preparation	32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 16-0016 CY Shredded Recycled Tire Mulch.....	443.65	
For >5 To 20, Deduct	-26.66	
For >20 To 50, Deduct	-40.00	
For >50, Deduct	-62.18	
For Work On Slopes >2.5:1, Add	17.92	
32 91 13 16-0017 CY Shredded Colored Recycled Tire Mulch .....	792.63	
For >5 To 20, Deduct	-44.11	
For >20 To 50, Deduct	-66.17	
For >50, Deduct	-105.80	
For Work On Slopes >2.5:1, Add	17.92	
32 91 13 16-0018 EA Pine Straw Mulch Bale.....	12.73	
Note: Covers 50 SF at a thickness of 2" to 4" forming a uniform mat through which none of the original ground surface can be seen.		
For >100 To 250, Deduct	-0.83	
For >250 To 500, Deduct	-1.03	
For >500, Deduct	-1.47	
For Work On Slopes >2.5:1, Add	0.78	
32 91 13 16-0019 EA Wheat Straw Mulch Bale .....	13.32	
Note: Covers 350 SF forming a uniform mat through which 20 to 40% of the original ground surface can be seen.		
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-0.96	
For >500, Deduct	-1.48	
For Work On Slopes >2.5:1, Add	0.59	
<b>32 91 13 16-0020 Compost Soil Amendment (AgriService) <small>(32 91 13 16)</small></b>		
Note: Includes loading, delivery up to 15 miles and spreading. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles.		
32 91 13 16-0021 CY Humic Compost (OIM) .....	90.87	
Note: (Agri Service or Equal)		
For Work On Slopes >2.5:1, Add	14.12	
For >100 To 1,000, Deduct	-15.13	
For >1,000, Deduct	-23.21	
<b>32 91 13 26 Planting Beds <small>(32 91 13)</small></b>		
Note: Not for use when installing trees and shrubs.		
<b>32 91 13 26-0001 Plant Bed Preparation <small>(32 91 13 26)</small></b>		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0002 SF Up To 8" Deep, Prepare And Mix Plant Bed, By Machine .....	1.09	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.22	
32 91 13 26-0003 SF >8" To 13" Deep, Prepare And Mix Plant Bed, By Machine.....	1.26	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.25	
32 91 13 26-0004 SF >13" To 18" Deep, Prepare And Mix Plant Bed, By Machine.....	1.49	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.30	
32 91 13 26-0005 SF Up To 8" Deep, Prepare And Mix Plant Bed By Hand .....	4.88	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	0.98	
32 91 13 26-0006 SF >8" To 13" Deep, Prepare And Mix Plant Bed By Hand.....	5.61	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	1.12	
32 91 13 26-0007 SF >13" To 18" Deep, Prepare And Mix Plant Bed By Hand.....	6.59	
Note: Includes loosening subgrade, removing stones, sticks, roots, rubbish, and raking surface. Excludes soil amendments.		
For Work On Slopes >2.5:1, Add	1.32	
<b>32 91 13 26-0008 Plant Bed Preparation With Humic Compost <small>(32 91 13 26)</small></b>		
32 91 13 26-0009 SF Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 3 CY Per 1,000 SF).....	1.21	
Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
For Work On Slopes >2.5:1, Add	0.23	
For >1,000 To 5,000, Deduct	-0.17	
For >5,000 To 10,000, Deduct	-0.29	
For >10,000 To 20,000, Deduct	-0.58	
For >20,000, Deduct	-0.81	
32 91 13 26-0010 SF Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 6 CY Per 1,000 SF).....	1.50	
Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
For Work On Slopes >2.5:1, Add	0.28	
For >1,000 To 5,000, Deduct	-0.21	
For >5,000 To 10,000, Deduct	-0.35	
For >10,000 To 20,000, Deduct	-0.70	
For >20,000, Deduct	-0.98	

**32 Exterior Improvements****32 90 Planting****32 91 Planting Preparation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 26-0011 SF Prepare And Mix Plant Bed By Rototiller, Up To 8" Deep, Mixing Humic Compost (Mixed At Rate Of 9 CY Per 1,000 SF).....	1.79	
Note: Includes loosening subgrade, removing rubbish, mixing humic compost and raking surface.		
For Work On Slopes >2.5:1, Add	0.32	
For >1,000 To 5,000, Deduct	-0.24	
For >5,000 To 10,000, Deduct	-0.40	
For >10,000 To 20,000, Deduct	-0.81	
For >20,000, Deduct	-1.15	
<b>32 91 13 26-0012 Planting Pit Preparation (32 91 13 26)</b>		
Note: Not for use when installing trees and shrubs.		
32 91 13 26-0013 CY Excavate Planting Pit By Hand, Sandy Soil .....	84.38	
Note: For use with existing planting pits.		
For Work On Slopes >2.5:1, Add	16.88	
32 91 13 26-0014 CY Excavate Planting Pit By Hand, Heavy Soil .....	168.75	
Note: For use with existing planting pits.		
For Work On Slopes >2.5:1, Add	33.75	
32 91 13 26-0015 CY Excavate Planting Pit By Machine, Sandy Soil .....	13.88	
Note: For use with existing planting pits.		
For Work On Slopes >2.5:1, Add	2.78	
32 91 13 26-0016 CY Excavate Planting Pit By Machine, Heavy Soil .....	18.06	
Note: For use with existing planting pits.		
For Work On Slopes >2.5:1, Add	3.61	
32 91 13 26-0017 CY Backfill Planting Pit By Hand With Topsoil From Stockpile .....	74.98	
For Work On Slopes >2.5:1, Add	15.00	
32 91 13 26-0018 CY Backfill Planting Pit By Hand With Contractor Furnished Planting Mix .....	187.11	
For Work On Slopes >2.5:1, Add	13.96	
32 91 13 26-0019 CY Backfill Planting Pit By Machine, With Topsoil From Stockpile .....	7.42	
For Work On Slopes >2.5:1, Add	1.48	
32 91 13 26-0020 CY Backfill Planting Pit By Machine, With Contractor Furnished Planting Mix.....	137.01	
For Work On Slopes >2.5:1, Add	3.94	
<b>32 91 13 26-0021 Weed Barrier (32 91 13 26)</b>		
32 91 13 26-0022 SY Up To 3 Oz/SY Non-Woven, Polypropylene Weed Barrier .....	2.32	
For Work On Slopes >2.5:1, Add	0.13	
32 91 13 26-0023 SY 4 Oz/SY Woven, Polypropylene Weed Barrier.....	3.18	
For Work On Slopes >2.5:1, Add	0.13	
32 91 13 26-0024 SY 5 Oz/SY Woven, Needle Punched Polypropylene Weed Barrier .....	3.55	
For Work On Slopes >2.5:1, Add	0.13	
<b>32 91 13 33 Soil Conditioners (32 91 13)</b>		
<b>32 91 13 33-0001 Spread Soil Conditioners (32 91 13 33)</b>		
32 91 13 33-0002 SY Aluminum Sulfate 1 LB/SY, Push Spreader.....	0.43	
32 91 13 33-0003 MSF Aluminum Sulfate 110 LB/MSF Tractor Spreader.....	40.77	
32 91 13 33-0004 MSF Fertilizer, 20 LB/MSF, Push Spreader.....	7.06	
32 91 13 33-0005 MSF Fertilizer, 20 LB/MSF, Tractor Spread .....	3.03	
32 91 13 33-0006 MSF Fertilizer, 20 LB/MSF, Truck Spread .....	5.55	
32 91 13 33-0007 SY Pelletized Lime, 1 LB/SY, Push Spreader.....	0.10	
32 91 13 33-0008 MSF Pelitized Lime, 110 LB/MSF, Tractor Spreader.....	7.73	
32 91 13 33-0009 SY Perlite, 1" Deep, Push Spreader.....	3.71	
32 91 13 33-0010 MSF Perlite, 1" Deep, Tractor Spreader.....	385.45	
32 91 13 33-0011 SY Vermiculite, Push Spreader .....	3.44	
32 91 13 33-0012 MSF Vermiculite, Tractor Spreader .....	376.52	
32 91 13 33-0013 SY Humate Granular Soil Conditioner, 0.10 LB/SY, Push Spreader .....	0.22	
32 91 13 33-0014 MSF Humate Granular Soil Conditioner, 10 LB/MSF, Tractor Spreader .....	20.24	
<b>32 91 13 36 Lawn Bed Preparation (32 91 13)</b>		
<b>32 91 13 36-0001 Lawn Bed Preparation (32 91 13 36)</b>		
32 91 13 36-0002 MSF Rake Topsoil With Machine .....	86.04	
32 91 13 36-0003 MSF Rake Topsoil By Hand .....	67.49	
32 91 13 36-0004 MSF Screen Loam By Hand.....	44.99	
32 91 13 36-0005 SY Roll Topsoil With Machine .....	1.12	
32 91 13 36-0006 SY Roll Topsoil By Hand .....	3.01	
32 91 13 36-0007 MSF Removal Of Rocks And Debris With Machine.....	10.17	
32 91 13 36-0008 MSF Removal Of Rocks And Debris By Hand.....	31.31	
32 91 13 36-0009 MSF Root Raking And Loading, No Boulders .....	53.24	
For >45 to 225, Deduct	-37.27	
For >225, Deduct	-47.92	
32 91 13 36-0010 MSF Root Raking And Loading, With Boulders.....	88.74	
For >45 to 225, Deduct	-62.12	
For >225, Deduct	-79.87	
32 91 13 36-0011 MSF Up To 6" Deep Tilling Topsoil With Tractor.....	4.80	
32 91 13 36-0012 MSF >6" To 12" Deep Tilling Topsoil With Tractor .....	9.74	
For Work On Slopes >2.5:1, Add	1.95	
32 91 13 36-0013 SY Up To 2" Deep Tilling Topsoil With Rototiller .....	0.72	
32 91 13 36-0014 SY >2" To 4" Deep Tilling Topsoil With Rototiller .....	0.86	
32 91 13 36-0015 SY >4" To 6" Deep Tilling Topsoil With Rototiller .....	1.08	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Planting Preparation	32 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 91 13 36-0016 LF "V" Cut Soil For Edge Of Planting Beds.....	1.20	
<b>32 91 13 36-0017 Sod Removal</b> <small>(32 91 13 36)</small>		
32 91 13 36-0018 SY Removal Of Sod By Hand.....	5.69	
<i>For Work On Slopes &gt;2.5:1, Add</i>	1.14	
32 91 13 36-0019 SY Removal Of Sod With Machine.....	0.65	
<i>For Work On Slopes &gt;2.5:1, Add</i>	0.13	
32 91 13 36-0020 SY Pile Sod By Hand.....	3.37	
<i>For Work On Slopes &gt;2.5:1, Add</i>	0.67	
32 91 13 36-0021 SY Pile Sod With Machine.....	1.22	
<i>For Work On Slopes &gt;2.5:1, Add</i>	0.24	
<b>32 91 19 Landscape Grading</b> <small>(32 91)</small>		
<b>32 91 19 13 Topsoil Placement and Grading</b> <small>(32 91 19)</small>		
<b>32 91 19 13-0001 Remove And Stockpile Topsoil On Site</b> <small>(32 91 19 13)</small>		
32 91 19 13-0002 CY Removal Of Topsoil, 4" Deep Stockpile On Site.....	5.23	
32 91 19 13-0003 CY Removal Of Topsoil, 6" Deep Stockpile On Site.....	5.17	
<b>32 91 19 13-0004 Screening Topsoil</b> <small>(32 91 19 13)</small>		
32 91 19 13-0005 CY Screen Topsoil With Vibrating Screen, Wet Material (Organic).....	11.22	
32 91 19 13-0006 CY Screen Topsoil With Vibrating Screen, Dry Material.....	7.48	
<b>32 91 19 13-0007 Spreading Topsoil From Stockpile</b> <small>(32 91 19 13)</small>		
32 91 19 13-0008 CY Spread Topsoil By Machine From Stockpile.....	8.30	
32 91 19 13-0009 CY Spread Topsoil By Hand From Stockpile.....	64.40	
<b>32 91 19 13-0010 Furnish And Place Imported Screened Topsoil</b> <small>(32 91 19 13)</small>		
<i>Note: Includes delivery up to 15 miles from the closest approved source and spread by machine. Excludes hand spreading. See CSI section 01 74 19 00-0039 for hauling greater than 15 miles, 31 23 16 36-0030 for hand spreading.</i>		
32 91 19 13-0011 SY Furnish And Place Imported Screened Topsoil, 2" Deep.....	6.89	
<i>For Unscreened, Deduct</i>	-1.23	
32 91 19 13-0012 SY Furnish And Place Imported Screened Topsoil, 4" Deep.....	13.45	
<i>For Unscreened, Deduct</i>	-2.46	
32 91 19 13-0013 SY Furnish And Place Imported Screened Topsoil, 6" Deep.....	19.77	
<i>For Unscreened, Deduct</i>	-3.69	
32 91 19 13-0014 SY Furnish And Place Imported Screened Topsoil, 9" Deep.....	29.04	
<i>For Unscreened, Deduct</i>	-5.53	
32 91 19 13-0015 SY Furnish And Place Imported Screened Topsoil, 12" Deep.....	38.31	
<i>For Unscreened, Deduct</i>	-7.37	
32 91 19 13-0016 CY Furnish And Place Imported Screened Topsoil, Over 12" Deep.....	109.51	
<i>For Unscreened, Deduct</i>	-22.12	
<b>32 91 19 13-0017 Scarify Soil For Planting Preparation</b> <small>(32 91 19 13)</small>		
<i>Note: Ripped in multiple directions with 3" maximum clods.</i>		
32 91 19 13-0018 MSF Up To 5,000 SF Scarify Up To 8" Soil With Machine.....	64.92	
32 91 19 13-0019 MSF >5,000 To 20,000 SF Scarify Up To 8" Soil With Machine.....	45.44	
32 91 19 13-0020 MSF >20,000 SF Scarify Up To 8" Soil With Machine.....	26.75	
<b>32 92 Turf and Grasses</b> <small>(32 92)</small>		
<b>32 92 16 Plugging</b> <small>(32 92)</small>		
<b>32 92 16 00-0001 Bermuda Or Centipede Plugging, 1" Deep</b> <small>(32 92 16)</small>		
<i>Note: Includes fine grade and soil preparation.</i>		
<b>32 92 16 00-0002 6" On Center Plugging</b> <small>(32 92 16 00-0001)</small>		
32 92 16 00-0003 MSF Plugging By Hand, 6" On Center.....	221.31	
32 92 16 00-0004 MSF Plugging By Walk Behind Planter, 6" On Center.....	33.33	
32 92 16 00-0005 MSF Plugging By Towed Planter, 6" On Center.....	25.68	
<b>32 92 16 00-0006 9" On Center Plugging</b> <small>(32 92 16 00-0001)</small>		
32 92 16 00-0007 MSF Plugging By Hand, 9" On Center.....	169.69	
32 92 16 00-0008 MSF Plugging By Walk Behind Planter, 9" On Center.....	25.95	
32 92 16 00-0009 MSF Plugging By Towed Planter, 9" On Center.....	19.21	
<b>32 92 16 00-0010 12" On Center Plugging</b> <small>(32 92 16 00-0001)</small>		
32 92 16 00-0011 MSF Plugging By Hand, 12" On Center.....	142.28	
32 92 16 00-0012 MSF Plugging By Walk Behind Planter, 12" On Center.....	17.42	
32 92 16 00-0013 MSF Plugging By Towed Planter, 12" On Center.....	12.23	

**32 Exterior Improvements****32 90 Planting****32 92 Turf and Grasses**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**32 92 19 Seeding** (32 92)**32 92 19 13 Mechanical Seeding** (32 92 19)

Note: Includes fertilizing, liming, mixing, seeding and initial watering.

**32 92 19 13-0001 Tractor Spreader Mechanical Seeding** (32 92 19 13)

Note: Excludes straw.

32 92 19 13-0002	MSF Common Bluegrass, Tractor Spreader .....	48.86
	Note: 4 LB/MSF spread rate.	
32 92 19 13-0003	MSF Tall Fescue, Tractor Spreader .....	38.05
	Note: 5.5 LB/MSF spread rate.	
32 92 19 13-0004	MSF Rye, Tractor Spreader .....	38.81
	Note: 10 LB/MSF spread rate.	
32 92 19 13-0005	MSF Shade Mix, Tractor Spreader .....	42.71
	Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	
32 92 19 13-0006	MSF Turf Mix, Tractor Spreader .....	45.51
	Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	
32 92 19 13-0007	MSF Slope Mix, Tractor Spreader .....	41.78
	Note: 6 LB/MSF spread rate.	
32 92 19 13-0008	MSF Utility Mix, Tractor Spreader .....	37.13
	Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	
32 92 19 13-0009	MSF Wild Flower Mix, Tractor Spreader .....	28.35
	Note: 0.10 LB/MSF spread rate.	
32 92 19 13-0010	MSF Crown Vetch Mix, Tractor Spreader .....	97.72
	Note: 4 LB/MSF spread rate.	
32 92 19 13-0011	MSF Athletic Mix, Tractor Spreader .....	56.70
	Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	
32 92 19 13-0012	MSF White Clover Mix, Tractor Spreader .....	28.26
	Note: 7 LB/MSF spread rate.	
32 92 19 13-0013	MSF Ladino Clover Mix, Tractor Spreader .....	31.99
	Note: 7 LB/MSF spread rate.	

**32 92 19 13-0014 Hydro Or Air Mechanical Seeding** (32 92 19 13)

32 92 19 13-0015	MSF Common Bluegrass, Hydro Or Air Seeding .....	98.57
	Note: 4 LB/MSF spread rate.	
	<i>For Spot Areas Up To 1, Add</i>	100.68
	<i>For &gt;1 To 4, Add</i>	64.26
	<i>For &gt;4 To 7.5, Add</i>	43.27
	<i>For &gt;7.5 To 10, Add</i>	21.63
	<i>For &gt;45, Deduct</i>	-7.71
	<i>For Tackifier, Add</i>	1.43
32 92 19 13-0016	MSF Tall Fescue, Hydro Or Air Seeding .....	105.10
	Note: 5.5 LB/MSF spread rate.	
	<i>For Spot Areas Up To 1, Add</i>	103.29
	<i>For &gt;1 To 4, Add</i>	65.56
	<i>For &gt;4 To 7.5, Add</i>	43.92
	<i>For &gt;7.5 To 10, Add</i>	21.96
	<i>For &gt;45, Deduct</i>	-8.04
	<i>For Tackifier, Add</i>	1.43
32 92 19 13-0017	MSF Rye, Hydro Or Air Spread .....	98.84
	Note: 10 LB/MSF spread rate.	
	<i>For Spot Areas Up To 1, Add</i>	100.78
	<i>For &gt;1 To 4, Add</i>	64.31
	<i>For &gt;4 To 7.5, Add</i>	43.29
	<i>For &gt;7.5 To 10, Add</i>	21.65
	<i>For &gt;45, Deduct</i>	-7.73
	<i>For Tackifier, Add</i>	1.43
32 92 19 13-0018	MSF Shade Mix, Hydro Or Air Seeding .....	98.57
	Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	
	<i>For Spot Areas Up To 1, Add</i>	100.68
	<i>For &gt;1 To 4, Add</i>	64.26
	<i>For &gt;4 To 7.5, Add</i>	43.27
	<i>For &gt;7.5 To 10, Add</i>	21.63
	<i>For &gt;45, Deduct</i>	-7.71
	<i>For Tackifier, Add</i>	1.43
32 92 19 13-0019	MSF Turf Mix, Hydro Or Air Seeding .....	105.10
	Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	
	<i>For Spot Areas Up To 1, Add</i>	103.29
	<i>For &gt;1 To 4, Add</i>	65.56
	<i>For &gt;4 To 7.5, Add</i>	43.92
	<i>For &gt;7.5 To 10, Add</i>	21.96
	<i>For &gt;45, Deduct</i>	-8.04
	<i>For Tackifier, Add</i>	1.43
32 92 19 13-0020	MSF Slope Mix, Hydro Or Air Seeding .....	102.30
	Note: 6 LB/MSF spread rate.	
	<i>For Spot Areas Up To 1, Add</i>	102.17
	<i>For &gt;1 To 4, Add</i>	65.00
	<i>For &gt;4 To 7.5, Add</i>	43.64
	<i>For &gt;7.5 To 10, Add</i>	21.82
	<i>For &gt;45, Deduct</i>	-7.90
	<i>For Tackifier, Add</i>	1.43





		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Turf and Grasses	32 92

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19 13-0021 MSF Utility Mix, Hydro Or Air Seeding .....	100.04	
Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.		
For Spot Areas Up To 1, Add	101.26	
For >1 To 4, Add	64.55	
For >4 To 7.5, Add	43.41	
For >7.5 To 10, Add	21.71	
For >45, Deduct	-7.79	
For Tackifier, Add	1.43	
32 92 19 13-0022 MSF Wild Flower Mix, Hydro Or Air Seeding .....	92.78	
Note: 0.10 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	98.36	
For >1 To 4, Add	63.10	
For >4 To 7.5, Add	42.69	
For >7.5 To 10, Add	21.34	
For >45, Deduct	-7.42	
For Tackifier, Add	1.43	
32 92 19 13-0023 MSF Crown Vetch Mix, Hydro Or Air Seeding.....	158.24	
Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	124.54	
For >1 To 4, Add	76.19	
For >4 To 7.5, Add	49.23	
For >7.5 To 10, Add	24.62	
For >45, Deduct	-10.70	
For Tackifier, Add	1.43	
32 92 19 13-0024 MSF Athletic Mix, Hydro Or Air Seeding .....	137.75	
Note: 8 LB/MSF spread rate. Mixture of three varieties of drought resistant bluegrass, tall fescue and Kentucky bluegrass.		
For Spot Areas Up To 1, Add	116.35	
For >1 To 4, Add	72.09	
For >4 To 7.5, Add	47.18	
For >7.5 To 10, Add	23.59	
For >45, Deduct	-9.67	
For Tackifier, Add	1.43	
32 92 19 13-0025 MSF White Clover Mix, Hydro Or Air Seeding.....	83.93	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	94.82	
For >1 To 4, Add	61.33	
For >4 To 7.5, Add	41.80	
For >7.5 To 10, Add	20.90	
For >45, Deduct	-6.98	
For Tackifier, Add	1.43	
32 92 19 13-0026 MSF Ladino Clover Mix, Hydro Or Air Seeding.....	94.84	
Note: 7 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	99.18	
For >1 To 4, Add	63.51	
For >4 To 7.5, Add	42.89	
For >7.5 To 10, Add	21.45	
For >45, Deduct	-7.53	
For Tackifier, Add	1.43	
32 92 19 13-0027 MSF 60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Hydro Or Air Spread.....	100.43	
Note: 4 LB/MSF spread rate.		
For Spot Areas Up To 1, Add	101.42	
For >1 To 4, Add	64.63	
For >4 To 7.5, Add	43.45	
For >7.5 To 10, Add	21.73	
For >45, Deduct	-7.81	
For Tackifier, Add	1.43	
32 92 19 13-0028 MSF 2,500 LB/Acre, High Performance - Flexible Growth Medium .....	131.93	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-7.99	
32 92 19 13-0029 MSF 3,000 LB/Acre, High Performance - Flexible Growth Medium .....	154.15	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-9.17	
32 92 19 13-0030 MSF 3,500 LB/Acre, High Performance - Flexible Growth Medium .....	176.45	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-10.36	
32 92 19 13-0031 MSF 4,000 LB/Acre, High Performance - Flexible Growth Medium .....	198.78	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-11.55	
32 92 19 13-0032 MSF 4,500 LB/Acre, High Performance - Flexible Growth Medium .....	221.22	
Note: Applied with seed. Excludes seed.		
For >45, Deduct	-12.75	
<b>32 92 19 19 Seeding by Hand</b> <small>(32 92 19)</small>		
Note: Includes fertilizing, liming, mixing, seeding and initial watering.		
32 92 19 19-0001 Push Spreader Or Hand Seeding <small>(32 92 19 19)</small>		
Note: Excludes straw.		
32 92 19 19-0002 MSF Common Bluegrass, Push Spreader Or Hand.....	110.09	
Note: 4 LB/MSF spread rate.		
For >5 To 20, Deduct	-7.61	
For >20 To 45, Deduct	-14.58	
For >45, Deduct	-23.66	

**32 Exterior Improvements****32 90 Planting****32 92 Turf and Grasses**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 92 19	19-0003	MSF	Tall Fescue, Push Spreader Or Hand ..... Note: 5.5 LB/MSF spread rate.	99.28	
			<i>For &gt;5 To 20, Deduct</i>	-7.07	
			<i>For &gt;20 To 45, Deduct</i>	-13.77	
			<i>For &gt;45, Deduct</i>	-22.58	
32 92 19	19-0004	MSF	Rye, Push Spreader Or Hand ..... Note: 10 LB/MSF spread rate.	100.04	
			<i>For &gt;5 To 20, Deduct</i>	-7.11	
			<i>For &gt;20 To 45, Deduct</i>	-13.83	
			<i>For &gt;45, Deduct</i>	-22.66	
32 92 19	19-0005	MSF	Shade Mix, Push Spreader Or Hand ..... Note: 6 LB/MSF spread rate. Mixture of red fescue, creeping red fescue, perennial rye and bluegrass.	103.94	
			<i>For &gt;5 To 20, Deduct</i>	-7.31	
			<i>For &gt;20 To 45, Deduct</i>	-14.12	
			<i>For &gt;45, Deduct</i>	-23.05	
32 92 19	19-0006	MSF	Turf Mix, Push Spreader Or Hand ..... Note: 4 LB/MSF spread rate. Mixture of three varieties of bluegrass and one improved perennial ryegrass.	106.74	
			<i>For &gt;5 To 20, Deduct</i>	-7.45	
			<i>For &gt;20 To 45, Deduct</i>	-14.33	
			<i>For &gt;45, Deduct</i>	-23.33	
32 92 19	19-0007	MSF	Slope Mix, Push Spreader Or Hand ..... Note: 6 LB/MSF spread rate.	103.01	
			<i>For &gt;5 To 20, Deduct</i>	-7.26	
			<i>For &gt;20 To 45, Deduct</i>	-14.05	
			<i>For &gt;45, Deduct</i>	-22.96	
32 92 19	19-0008	MSF	Utility Mix, Push Spreader Or Hand ..... Note: 7 LB/MSF spread rate. Mixture of perennial/annual rye, creeping red fescue and bluegrass.	98.36	
			<i>For &gt;5 To 20, Deduct</i>	-7.03	
			<i>For &gt;20 To 45, Deduct</i>	-13.70	
			<i>For &gt;45, Deduct</i>	-22.49	
32 92 19	19-0009	MSF	Wild Flower Mix, Push Spreader Or Hand ..... Note: 0.10 LB/MSF spread rate.	89.58	
			<i>For &gt;5 To 20, Deduct</i>	-6.59	
			<i>For &gt;20 To 45, Deduct</i>	-13.05	
			<i>For &gt;45, Deduct</i>	-21.61	
32 92 19	19-0010	MSF	Crown Vetch Mix, Push Spreader Or Hand ..... Note: 4 LB/MSF spread rate.	158.95	
			<i>For &gt;5 To 20, Deduct</i>	-10.06	
			<i>For &gt;20 To 45, Deduct</i>	-18.25	
			<i>For &gt;45, Deduct</i>	-28.55	
32 92 19	19-0011	MSF	Athletic Mix, Push Spreader Or Hand ..... Note: 8 LB/MSF spread rate. Mixture of drought resistant bluegrass, tall fescue and Kentucky bluegrass.	117.93	
			<i>For &gt;5 To 20, Deduct</i>	-8.01	
			<i>For &gt;20 To 45, Deduct</i>	-15.17	
			<i>For &gt;45, Deduct</i>	-24.45	
32 92 19	19-0012	MSF	White Clover Mix, Push Spreader Or Hand ..... Note: 7 LB/MSF spread rate.	89.49	
			<i>For &gt;5 To 20, Deduct</i>	-6.58	
			<i>For &gt;20 To 45, Deduct</i>	-13.04	
			<i>For &gt;45, Deduct</i>	-21.60	
32 92 19	19-0013	MSF	Ladino Clover Mix, Push Spreader Or Hand ..... Note: 7 LB/MSF spread rate.	93.22	
			<i>For &gt;5 To 20, Deduct</i>	-6.77	
			<i>For &gt;20 To 45, Deduct</i>	-13.32	
			<i>For &gt;45, Deduct</i>	-21.98	
32 92 19	19-0014	MSF	100% Kentucky Bluegrass, Push Spreader Or Hand ..... Note: 3.3 LB/MSF spread rate.	111.87	
			<i>For &gt;5 To 20, Deduct</i>	-7.70	
			<i>For &gt;20 To 45, Deduct</i>	-14.72	
			<i>For &gt;45, Deduct</i>	-23.84	
32 92 19	19-0015	MSF	70% Kentucky Bluegrass And 30% Fescue, Push Spreader Or Hand ..... Note: 3.3 LB/MSF spread rate.	106.74	
			<i>For &gt;5 To 20, Deduct</i>	-7.45	
			<i>For &gt;20 To 45, Deduct</i>	-14.33	
			<i>For &gt;45, Deduct</i>	-23.33	
32 92 19	19-0016	MSF	50% Kentucky Bluegrass And 50% Fescue, Push Spreader Or Hand ..... Note: 3.3 LB/MSF spread rate.	103.01	
			<i>For &gt;5 To 20, Deduct</i>	-7.26	
			<i>For &gt;20 To 45, Deduct</i>	-14.05	
			<i>For &gt;45, Deduct</i>	-22.96	
32 92 19	19-0017	MSF	50% Kentucky Bluegrass And 50% Perennial Rye, Push Spreader Or Hand ..... Note: 4.4 LB/MSF spread rate.	110.47	
			<i>For &gt;5 To 20, Deduct</i>	-7.63	
			<i>For &gt;20 To 45, Deduct</i>	-14.61	
			<i>For &gt;45, Deduct</i>	-23.70	
32 92 19	19-0018	MSF	60% Kentucky Bluegrass, 20% Creeping Red Fescue, 10% Red Top And 10% Domestic Rye, Push Spreader Or Hand ..... Note: 3.3 LB/MSF spread rate.	104.87	
			<i>For &gt;5 To 20, Deduct</i>	-7.35	
			<i>For &gt;20 To 45, Deduct</i>	-14.19	
			<i>For &gt;45, Deduct</i>	-23.14	
32 92 19	19-0019	MSF	40% Creeping Red Fescue, 30% Kentucky Bluegrass, 10% Red Top, And 20% Blue Tag Perennial Rye, Push Spreader Or Hand ..... Note: 3.3 LB/MSF spread rate.	106.74	
			<i>For &gt;5 To 20, Deduct</i>	-7.45	
			<i>For &gt;20 To 45, Deduct</i>	-14.33	
			<i>For &gt;45, Deduct</i>	-23.33	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Turf and Grasses	32 92

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**32 92 23 Sodding** (32 92)

Note: Includes raking preparation, water thoroughly and allow surface to dry before planting, rolling of sod, sanding seams for (up to 16" wide by 24" long) squares or (up to 24" wide by 54" long) rolls and initial watering within 2 hours after planting.

**32 92 23 00-0001 Tall Fescue Sod** (32 92 23)

32 92 23 00-0002	MSF Up To 1,000 SF, Tall Fescue Sod, Installed On Level Ground.....	2,368.71
	<i>For Hybrid Fescue "Marathon", Add</i>	166.97
32 92 23 00-0003	MSF >1,000 To 4,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,913.01
	<i>For Hybrid Fescue "Marathon", Add</i>	125.76
32 92 23 00-0004	MSF >4,000 To 8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,617.05
	<i>For Hybrid Fescue "Marathon", Add</i>	105.16
32 92 23 00-0005	MSF >8,000 SF, Tall Fescue Sod, Installed On Level Ground.....	1,374.08
	<i>For Hybrid Fescue "Marathon", Add</i>	84.55
32 92 23 00-0006	MSF Up To 1,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,698.50
	<i>For Hybrid Fescue "Marathon", Add</i>	166.97
32 92 23 00-0007	MSF >1,000 To 4,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,194.10
	<i>For Hybrid Fescue "Marathon", Add</i>	125.76
32 92 23 00-0008	MSF >4,000 To 8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,810.96
	<i>For Hybrid Fescue "Marathon", Add</i>	105.16
32 92 23 00-0009	MSF >8,000 SF, Tall Fescue Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,538.98
	<i>For Hybrid Fescue "Marathon", Add</i>	84.55

**32 92 23 00-0010 Kentucky Blue Grass Sod** (32 92 23)

32 92 23 00-0011	MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,994.02
32 92 23 00-0012	MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,631.98
32 92 23 00-0013	MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,382.86
32 92 23 00-0014	MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Level Ground.....	1,186.73
32 92 23 00-0015	MSF Up To 1,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	2,323.81
32 92 23 00-0016	MSF >1,000 To 4,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,913.07
32 92 23 00-0017	MSF >4,000 To 8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,576.77
32 92 23 00-0018	MSF >8,000 SF, Kentucky Blue Grass Sod, Installed On Sloped (>1:6) Ground With Stakes.....	1,351.63

**32 93 Plants** (32 90)

**32 93 13 Ground Covers** (32 93)

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of ground cover.

**32 93 13 00-0001 Ornamental Grasses** (32 93 13)

32 93 13 00-0002	EA 1 Gallon, Cortaderia selloana - Pampas Grass.....	32.44
32 93 13 00-0003	EA 2 Gallon, Cortaderia selloana - Pampas Grass.....	59.97
32 93 13 00-0004	EA 3 Gallon, Cortaderia selloana - Pampas Grass.....	108.99
32 93 13 00-0005	EA 5 Gallon, Cortaderia selloana - Pampas Grass.....	198.37
32 93 13 00-0006	EA 1 Quart, Imperata cylindrica - Japanese Blood Grass.....	24.83
32 93 13 00-0007	EA 1 Gallon, Imperata cylindrica - Japanese Blood Grass.....	33.02
32 93 13 00-0008	EA 2 Gallon, Imperata cylindrica - Japanese Blood Grass.....	35.34
32 93 13 00-0009	EA 1 Quart, Koeleria glauca - Blue Hair Grass.....	24.77
32 93 13 00-0010	EA 1 Gallon, Koeleria glauca - Blue Hair Grass.....	33.02
32 93 13 00-0011	EA 3 Gallon, Koeleria glauca - Blue Hair Grass.....	79.89
32 93 13 00-0012	EA 1 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	31.35
32 93 13 00-0013	EA 3 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	40.63
32 93 13 00-0014	EA 5 Gallon, Miscanthus sinensis 'Gracillimus' - Maiden Grass.....	77.68
32 93 13 00-0015	EA 1 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	29.10
32 93 13 00-0016	EA 3 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	45.75
32 93 13 00-0017	EA 5 Gallon, Miscanthus sinensis 'Zebrinus' - Zebra Grass.....	78.29
32 93 13 00-0018	EA 1 Quart, Pennisetum setaceum - Fountain Grass.....	27.09
32 93 13 00-0019	EA 1 Gallon, Pennisetum setaceum - Fountain Grass.....	68.91
32 93 13 00-0020	EA 3 Gallon, Pennisetum setaceum - Fountain Grass.....	90.84
32 93 13 00-0021	EA 1 Gallon, Saccharum ravennae - Ravenna Grass.....	85.76
32 93 13 00-0022	EA 3 Gallon, Saccharum ravennae - Ravenna Grass.....	96.34
32 93 13 00-0023	EA 7 Gallon, Saccharum ravennae - Ravenna Grass.....	158.94
32 93 13 00-0024	EA 1 Gallon, Spartina pectinata - Variegated Cord Grass.....	46.57
32 93 13 00-0025	EA 2 Gallon, Spartina pectinata - Variegated Cord Grass.....	69.69
32 93 13 00-0026	EA 1 Quart, Stipa gigantea - Giant Feather Grass.....	35.55
32 93 13 00-0027	EA 1 Gallon, Stipa gigantea - Giant Feather Grass.....	49.53

**32 93 13 00-0028 Ground Covers** (32 93 13)

32 93 13 00-0029	EA 1 Gallon Acorus gramineus - Japanese Sweet Flag.....	28.12
32 93 13 00-0030	EA 3" Pot Ajuga reptans - Carpet Bugle.....	6.75
32 93 13 00-0031	EA 1 Quart Ajuga reptans - Carpet Bugle.....	11.24
32 93 13 00-0032	EA 1 Gallon Ajuga reptans - Carpet Bugle.....	26.99
32 93 13 00-0033	EA 24 Plant Flat Ajuga reptans - Carpet Bugle.....	116.20
32 93 13 00-0034	EA 2 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	93.71
32 93 13 00-0035	EA 5 Gallon Aristolochia macrophylla - Dutchman's Pipe.....	171.68
32 93 13 00-0036	EA 1 Quart Arundo donax - Giant Reed.....	35.99
32 93 13 00-0037	EA 1 Gallon Arundo donax - Giant Reed.....	51.73
32 93 13 00-0038	EA 1 Quart Baccharis Pilularis - Dwarf Coyote Bush.....	11.25
32 93 13 00-0039	EA 1 Gallon Baccharis Pilularis - Dwarf Coyote Bush.....	19.49

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 13 00-0040	EA	3 Gallon Bougainvillea spectabilis - Bougainvillea	39.32	
32 93 13 00-0041	EA	1 Gallon Campsis radicans - Trumpet Creeper	41.23	
32 93 13 00-0042	EA	2 Gallon Campsis radicans - Trumpet Creeper	62.23	
32 93 13 00-0043	EA	5 Gallon Campsis radicans - Trumpet Creeper	149.94	
32 93 13 00-0044	EA	1 Quart Carex 'Bowles Golden' - Variegated Japanese Sedge	39.74	
32 93 13 00-0045	EA	1 Gallon Carex 'Bowles Golden' - Variegated Japanese Sedge	51.73	
32 93 13 00-0046	EA	1 Quart Carex hachijoensis - Variegated Japanese Sedge	20.24	
32 93 13 00-0047	EA	1 Gallon Carex hachijoensis - Variegated Japanese Sedge	28.12	
32 93 13 00-0048	EA	2 Gallon Carex hachijoensis - Variegated Japanese Sedge	43.86	
32 93 13 00-0049	EA	1 Gallon Cissus antarctica - Kangaroo Vine	21.74	
32 93 13 00-0050	EA	5 Gallon Cissus antarctica - Kangaroo Vine	68.22	
32 93 13 00-0051	EA	1 Gallon Cistaceae - Wrinkleleaf Rock Rose	21.74	
32 93 13 00-0052	EA	5 Gallon Cistaceae - Wrinkleleaf Rock Rose	74.22	
32 93 13 00-0053	EA	1 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	21.74	
32 93 13 00-0054	EA	5 Gallon Cocculus laurifolius - Laurel-leaf Snailseed	77.97	
32 93 13 00-0055	EA	1 Gallon Coprosma kirkii - Prostrate Coprosma	18.74	
32 93 13 00-0056	EA	5 Gallon Coprosma kirkii - Prostrate Coprosma	68.22	
32 93 13 00-0057	EA	1 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	36.74	
32 93 13 00-0058	EA	2 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	69.72	
32 93 13 00-0059	EA	5 Gallon Cotoneaster dammeri - Bearberry Cotoneaster	122.95	
32 93 13 00-0060	EA	1 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	23.24	
32 93 13 00-0061	EA	5 Gallon Distictis buccinatoria - Blood Red Trumpet Vine	81.72	
32 93 13 00-0062	EA	1 Quart Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	26.77	
32 93 13 00-0063	EA	1 Gallon Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	69.37	
32 93 13 00-0064	EA	24 Plant Flat Euonymus fortunei 'Coloratus' - Purple-leaf Wintercreeper	116.21	
32 93 13 00-0065	EA	1 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	29.24	
32 93 13 00-0066	EA	2 Gallon Euonymus fortunei 'Kewensis' - Wintercreeper	58.48	
32 93 13 00-0067	EA	1 Quart Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	15.74	
32 93 13 00-0068	EA	1 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	28.12	
32 93 13 00-0069	EA	2 Gallon Festuca glauca 'Sea Urchin' - Sea Urchin Blue Fescue	43.86	
32 93 13 00-0070	EA	1 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	23.24	
32 93 13 00-0071	EA	5 Gallon Gardenia jasminoides 'Radicans' - Creeping Gardenia	76.47	
32 93 13 00-0072	EA	1 Gallon Gelsemium sempervirens - Carolina Jessamine	32.39	
32 93 13 00-0073	EA	5 Gallon Gelsemium sempervirens - Carolina Jessamine	116.96	
32 93 13 00-0074	EA	1 Quart Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	39.74	
32 93 13 00-0075	EA	1 Gallon Hakonechloa macra 'Aureola' - Golden Variegated Hakone Grass	59.98	
32 93 13 00-0076	EA	1 Gallon Hardenbergia violacea - Happy Wanderer	26.99	
32 93 13 00-0077	EA	5 Gallon Hardenbergia violacea - Happy Wanderer	89.97	
32 93 13 00-0078	EA	2" To 3" Pot Hedera helix - English Ivy	6.75	
32 93 13 00-0079	EA	12" To 15" Runners Hedera helix - English Ivy	11.25	
32 93 13 00-0080	EA	1 Gallon Hedera helix - English Ivy	26.99	
32 93 13 00-0081	EA	50 Plant Flat Hedera helix - English Ivy	155.94	
32 93 13 00-0082	EA	3 Gallon Hibiscus, Assorted Colors	35.16	
32 93 13 00-0083	EA	1 Gallon Hydrangea petiolaris - Climbing Hydrangea	48.73	
32 93 13 00-0084	EA	2 Gallon Hydrangea petiolaris - Climbing Hydrangea	91.47	
32 93 13 00-0085	EA	5 Gallon Hydrangea petiolaris - Climbing Hydrangea	149.94	
32 93 13 00-0086	EA	1 Gallon Hymenocallis latifolia - Spider Lily	17.45	
32 93 13 00-0087	EA	3 Gallon Hymenocallis latifolia - Spider Lily	46.54	
32 93 13 00-0088	EA	1 Quart Hypericum perforatum - St. John's Wort	11.25	
32 93 13 00-0089	EA	1 Gallon Hypericum perforatum - St. John's Wort	26.99	
32 93 13 00-0090	EA	5 Gallon Hypericum perforatum - St. John's Wort	69.72	
32 93 13 00-0091	EA	1 Quart Iberis sempervirens - Candytuft	11.25	
32 93 13 00-0092	EA	1 Gallon Iberis sempervirens - Candytuft	26.99	
32 93 13 00-0093	EA	1 Gallon Ilex cornuta - Dwarf Holly	20.36	
32 93 13 00-0094	EA	3 Gallon Ilex cornuta - Dwarf Holly	43.64	
32 93 13 00-0095	EA	1 Gallon Jasminum polyanthum - Winter Jasmine	26.99	
32 93 13 00-0096	EA	2 Gallon Jasminum polyanthum - Winter Jasmine	53.98	
32 93 13 00-0097	EA	5 Gallon Jasminum polyanthum - Winter Jasmine	93.71	
32 93 13 00-0098	EA	1 Gallon Jasminum volubile - Wax Jasmine	14.16	
32 93 13 00-0099	EA	1 Gallon Jasminum volubile - Wax Jasmine	35.16	
32 93 13 00-0100	EA	1 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	17.66	
32 93 13 00-0101	EA	3 Gallon Juniperus davurica 'Parsonii' - Parson's Juniper	39.32	
32 93 13 00-0102	EA	2 Gallon Juniperus horizontalis 'Plumosa Compacta' - Andorra Creeping Juniper	65.48	
32 93 13 00-0103	EA	1 Gallon Juniperus horizontalis 'Wiltoni' - Blue Rug Juniper	30.51	
32 93 13 00-0104	EA	1 Gallon Juniperus Horizontalis - Prostrate Juniper	30.74	
32 93 13 00-0105	EA	3 Gallon Juniperus Horizontalis - Prostrate Juniper	65.97	
32 93 13 00-0106	EA	5 Gallon Juniperus Horizontalis - Prostrate Juniper	97.46	
32 93 13 00-0107	EA	1 Gallon Lantana spp. Various Colors	15.91	
32 93 13 00-0108	EA	4" Pot Lantana camera - Common Lantana	6.75	
32 93 13 00-0109	EA	1 Gallon Lantana camera - Common Lantana	19.49	
32 93 13 00-0110	EA	1 Gallon Lantana sellowiana - Trailing Lantana	10.47	
32 93 13 00-0111	EA	4" Pot Lavandula angustifolia - English Lavender	9.75	
32 93 13 00-0112	EA	1 Quart Lavandula angustifolia - English Lavender	18.74	
32 93 13 00-0113	EA	1 Gallon Lavandula angustifolia - English Lavender	30.74	
32 93 13 00-0114	EA	1 Gallon Liriope Evergreen Giant, 6 To 8 Bibs Minimum	15.91	
32 93 13 00-0115	EA	1 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	20.08	
32 93 13 00-0116	EA	3 Gallon Variegated Liriope Evergreen Giant, 6 To 8 Bibs Minimum	32.10	
32 93 13 00-0117	EA	1 Gallon Liriope muscari 'Big Blue' - Big Blue Liriope	12.58	
32 93 13 00-0118	EA	1 Gallon Liriope muscari 'Variegata' - Variegated Lilyturf	30.74	
32 93 13 00-0119	EA	2 Quart Liriope spicata - Creeping Lilyturf	19.49	
32 93 13 00-0120	EA	1 Gallon Liriope spicata - Creeping Lilyturf	35.24	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93	13 00-0121	EA	5 Gallon Liriope spicata - Creeping Lilytuft .....	74.22	
32 93	13 00-0122	EA	Bare Root Liriope spicata - Creeping Liriope .....	4.91	
32 93	13 00-0123	EA	1 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle .....	30.74	
32 93	13 00-0124	EA	2 Gallon Lonicera x heckrottii - Gold Flame Honeysuckle .....	58.48	
32 93	13 00-0125	EA	3" Pot Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle .....	6.75	
32 93	13 00-0126	EA	1 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle .....	30.74	
32 93	13 00-0127	EA	2 Gallon Lonicera japonica 'Halliana' - Hall's Japanese Honeysuckle .....	58.48	
32 93	13 00-0128	EA	2 Quart Lysimachia nummularia - Creeping Jenny .....	11.25	
32 93	13 00-0129	EA	1 Gallon Lysimachia nummularia - Creeping Jenny .....	21.74	
32 93	13 00-0130	EA	1 Gallon Macfadyena unguis-cati - Cat Claw Vine .....	26.99	
32 93	13 00-0131	EA	5 Gallon Macfadyena unguis-cati - Cat Claw Vine .....	116.96	
32 93	13 00-0132	EA	1 Quart Moss Phlox, Creeping Phlox .....	11.25	
32 93	13 00-0133	EA	1 Gallon Moss Phlox, Creeping Phlox .....	26.99	
32 93	13 00-0134	EA	1 Gallon Nephrolepis exaltata - Common Boston Fern .....	14.16	
32 93	13 00-0135	EA	1 Quart Nepeta mussinii - Persian Catmint .....	11.25	
32 93	13 00-0136	EA	1 Gallon Nepeta mussinii - Persian Catmint .....	23.24	
32 93	13 00-0137	EA	4" Pot Ophiopogon Japonicus - Mondo grass .....	6.75	
32 93	13 00-0138	EA	1 Gallon Ophiopogon Japonicus - Mondo grass .....	26.99	
32 93	13 00-0139	EA	5 Gallon Ophiopogon Japonicus - Mondo grass .....	62.23	
32 93	13 00-0140	EA	2' To 3' High Oregon Holly-Grape .....	31.16	
32 93	13 00-0141	EA	1 Gallon Pachysandra terminalis - Pachysandra .....	40.59	
32 93	13 00-0142	EA	4" Pot Parthenocissus tricuspidata - Boston Ivy .....	14.99	
32 93	13 00-0143	EA	1 Gallon Parthenocissus tricuspidata - Boston Ivy .....	34.19	
32 93	13 00-0144	EA	5 Gallon Parthenocissus tricuspidata - Boston Ivy .....	93.56	
32 93	13 00-0145	EA	3" Pot Parthenocissus quinquefolia - Virginia Creeper .....	6.75	
32 93	13 00-0146	EA	1 Gallon Parthenocissus quinquefolia - Virginia Creeper .....	35.24	
32 93	13 00-0147	EA	1 Gallon Ranunculaceae - Clematis Varieties .....	38.74	
32 93	13 00-0148	EA	2 Gallon Ranunculaceae - Clematis Varieties .....	71.64	
32 93	13 00-0149	EA	3 Gallon Rhamphiolepis umbellata 'Minor' - Dwarf Indian Hawthorn .....	43.64	
32 93	13 00-0150	EA	3" Pot Rosmarinus officinalis 'Prostratus' - Creeping Rosemary .....	6.75	
32 93	13 00-0151	EA	1 Gallon Rosmarinus officinalis 'Prostratus' - Creeping Rosemary .....	26.99	
32 93	13 00-0152	EA	2-1/4" Pot Securigera varia - Crown Vetch .....	4.50	
32 93	13 00-0153	EA	50 Plant Flat Securigera varia - Crown Vetch .....	152.19	
32 93	13 00-0154	EA	1 Quart Senecio cineraria - Dusty Miller .....	11.25	
32 93	13 00-0155	EA	1 Gallon Senecio cineraria - Dusty Miller .....	26.99	
32 93	13 00-0156	EA	1 Quart Stachys byzantina - Lamb's Ear .....	11.25	
32 93	13 00-0157	EA	1 Quart Stachys byzantina - Lamb's Ear .....	26.99	
32 93	13 00-0158	EA	1 Gallon Tradescantia spathacea - Dwarf Oyster Plant .....	14.54	
32 93	13 00-0159	EA	1 Gallon Tradescantia spathacea - Rhoecol Discolor "Dwarf" .....	14.16	
32 93	13 00-0160	EA	24" To 30" High Viburnum awabuki - Sweet Viburnum .....	94.89	
32 93	13 00-0161	EA	2 Quart Verbena peruviana "St. Paul" - St. Paul Verbena .....	14.24	
32 93	13 00-0162	EA	1 Gallon Verbena peruviana "St. Paul" - St. Paul Verbena .....	21.74	
32 93	13 00-0163	EA	2-1/4" Pot Vinca minor - Periwinkle .....	3.75	
32 93	13 00-0164	EA	4" Pot Vinca minor - Periwinkle .....	11.25	
32 93	13 00-0165	EA	Bare Root Vinca minor - Periwinkle .....	3.75	
32 93	13 00-0166	EA	48 Plant Flat Vinca minor - Lesser Periwinkle .....	133.63	
32 93	13 00-0167	EA	2-1/4" Pot Vinca major - Variegated Greater Periwinkle .....	3.75	
32 93	13 00-0168	EA	4" Pot Vinca major - Variegated Greater Periwinkle .....	11.25	
32 93	13 00-0169	EA	Bare Root Vinca major - Variegated Greater Periwinkle .....	3.75	
32 93	13 00-0170	EA	1 Quart Waldsteinia ternata - Barren Strawberry .....	11.25	
32 93	13 00-0171	EA	1 Gallon Waldsteinia ternata - Barren Strawberry .....	26.99	
32 93	13 00-0172	EA	1 Gallon Wisteria sinensis - Chinese Wisteria Vine .....	35.24	
32 93	13 00-0173	EA	3 Gallon Wisteria sinensis - Chinese Wisteria Vine .....	77.97	
32 93	13 00-0174	EA	5 Gallon Wisteria sinensis - Chinese Wisteria Vine .....	116.95	
32 93	13 00-0175	EA	Flat Hedera canariensis - Algerian Ivy .....	24.92	
32 93	13 00-0176	EA	2-1/2" Pot Hedera canariensis - Algerian Ivy .....	6.58	
32 93	13 00-0177	EA	Flat Gazania 'Copper King' .....	20.43	
32 93	13 00-0178	EA	1 Gallon Gazania 'Copper King' .....	6.98	
32 93	13 00-0179	EA	Flat Myoporum parvifolium - Myoporum .....	24.92	
32 93	13 00-0180	EA	1 Gallon Myoporum parvifolium - Myoporum .....	6.98	
32 93	13 00-0181	EA	5 Gallon Myoporum parvifolium - Myoporum .....	19.93	
32 93	13 00-0182	EA	1 Gallon Lantana montevidensis - Purple Lantana .....	6.98	
32 93	13 00-0183	EA	5 Gallon Lantana montevidensis - Purple Lantana .....	19.93	
32 93	13 00-0184	EA	Flat Carpobrotus - Ice Plant .....	18.94	
32 93	13 00-0185	EA	1 Gallon Carpobrotus - Ice Plant .....	7.97	

**32 93 23 Plants and Bulbs (32 93)**

Note: Materials only. See CSI section 32 93 83 00-0057 for installation and planting of bulbs and annuals.

**32 93 23 00-0001 Perennials (32 93 23)**

32 93	23 00-0002	EA	2 Quart Assorted Daylilies .....	21.74	
32 93	23 00-0003	EA	1 Gallon Assorted Daylilies .....	30.74	
32 93	23 00-0004	EA	2 Gallon Assorted Daylilies .....	50.98	
32 93	23 00-0005	EA	1 Quart Azure Penstemon .....	11.24	
32 93	23 00-0006	EA	1 Gallon Azure Penstemon .....	28.11	
32 93	23 00-0007	EA	1 Quart Balloon Flower .....	11.24	
32 93	23 00-0008	EA	1 Gallon Balloon Flower .....	28.11	
32 93	23 00-0009	EA	1 Quart Black-eyed Susan .....	11.24	
32 93	23 00-0010	EA	1 Gallon Black-eyed Susan .....	28.11	
32 93	23 00-0011	EA	2 Gallon Black-eyed Susan .....	36.36	
32 93	23 00-0012	EA	1 Quart Blackberry Lily .....	11.24	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 23 00-0013	EA	1 Gallon Blackberry Lily .....	28.11	
32 93 23 00-0014	EA	1 Quart Blank Flower .....	11.24	
32 93 23 00-0015	EA	1 Gallon Blank Flower.....	25.87	
32 93 23 00-0016	EA	2 Gallon Blank Flower.....	36.36	
32 93 23 00-0017	EA	1 Quart Blazing Star, Gayfeather.....	11.24	
32 93 23 00-0018	EA	1 Gallon Blazing Star, Gayfeather .....	28.11	
32 93 23 00-0019	EA	1 Quart Bloodred Geranium.....	19.12	
32 93 23 00-0020	EA	1 Gallon Bloodred Geranium .....	32.24	
32 93 23 00-0021	EA	1 Quart Blue Plumbago.....	11.24	
32 93 23 00-0022	EA	1 Gallon Blue Plumbago .....	28.11	
32 93 23 00-0023	EA	1 Quart Blue Star.....	20.24	
32 93 23 00-0024	EA	1 Gallon Blue Star.....	32.24	
32 93 23 00-0025	EA	1 Quart Cardinal Flower.....	11.24	
32 93 23 00-0026	EA	1 Gallon Cardinal Flower .....	28.11	
32 93 23 00-0027	EA	4" Pot Columbine.....	6.75	
32 93 23 00-0028	EA	1 Quart Columbine.....	11.24	
32 93 23 00-0029	EA	1 Gallon Columbine .....	28.11	
32 93 23 00-0030	EA	1 Quart Common Globeflower .....	11.24	
32 93 23 00-0031	EA	1 Gallon Common Globeflower .....	28.11	
32 93 23 00-0032	EA	1 Quart Cottage Pink, Scotch Pink .....	11.24	
32 93 23 00-0033	EA	1 Quart Cottage Pink, Scotch Pink .....	28.11	
32 93 23 00-0034	EA	1 Gallon Astilbe 'Deutschland' .....	40.49	
32 93 23 00-0035	EA	1 Quart Diploid.....	14.25	
32 93 23 00-0036	EA	1 Gallon Diploid .....	32.24	
32 93 23 00-0037	EA	3 Gallon Diploid .....	55.48	
32 93 23 00-0038	EA	4" Pot Dune Sunflower.....	16.05	
32 93 23 00-0039	EA	1 Quart Evans Begonia.....	20.24	
32 93 23 00-0040	EA	1 Gallon Evans Begonia .....	36.36	
32 93 23 00-0041	EA	1 Quart False Dragonhead .....	11.24	
32 93 23 00-0042	EA	1 Gallon False Dragonhead .....	28.11	
32 93 23 00-0043	EA	1 Quart False Spirea .....	11.24	
32 93 23 00-0044	EA	1 Gallon False Spirea .....	36.36	
32 93 23 00-0045	EA	3 Gallon False Spirea .....	50.23	
32 93 23 00-0046	EA	2 Quart False Sunflower .....	17.99	
32 93 23 00-0047	EA	1 Gallon False Sunflower .....	28.11	
32 93 23 00-0048	EA	2 Gallon False Sunflower.....	36.36	
32 93 23 00-0049	EA	1 Gallon Foxglove.....	25.87	
32 93 23 00-0050	EA	2 Gallon Foxglove.....	36.36	
32 93 23 00-0051	EA	3 Gallon Foxglove.....	52.48	
32 93 23 00-0052	EA	1 Gallon Francee Hostas .....	45.53	
32 93 23 00-0053	EA	1 Quart Garden Phlox.....	11.24	
32 93 23 00-0054	EA	1 Gallon Garden Phlox.....	28.11	
32 93 23 00-0055	EA	2 Quart Golden Groundsel.....	23.99	
32 93 23 00-0056	EA	2 Gallon Golden Groundsel .....	48.36	
32 93 23 00-0057	EA	1 Quart Golden Star .....	11.24	
32 93 23 00-0058	EA	1 Gallon Golden Star .....	28.11	
32 93 23 00-0059	EA	1 Quart Goldenrod .....	11.24	
32 93 23 00-0060	EA	1 Gallon Goldenrod.....	28.11	
32 93 23 00-0061	EA	1 Gallon Happy Returns Daylillies .....	52.36	
32 93 23 00-0062	EA	4" Pot Hardy Aster, Michaelmas Daisy .....	6.75	
32 93 23 00-0063	EA	1 Quart Hardy Aster, Michaelmas Daisy .....	11.24	
32 93 23 00-0064	EA	1 Gallon Hardy Aster, Michaelmas Daisy.....	28.11	
32 93 23 00-0065	EA	1 Quart Hardy Chrysanthemum .....	9.75	
32 93 23 00-0066	EA	6" To 8" Pot Hardy Chrysanthemum .....	16.12	
32 93 23 00-0067	EA	1 Gallon Hardy Chrysanthemum .....	25.87	
32 93 23 00-0068	EA	1 Gallon Herbaceous Peony .....	40.11	
32 93 23 00-0069	EA	2 Gallon Herbaceous Peony.....	64.10	
32 93 23 00-0070	EA	3 Gallon Herbaceous Peony .....	84.35	
32 93 23 00-0071	EA	4" Pot Japanese Anemone .....	6.75	
32 93 23 00-0072	EA	1 Quart Japanese Anemone.....	20.24	
32 93 23 00-0073	EA	2 Gallon Japanese Anemone.....	36.36	
32 93 23 00-0074	EA	2" Pot Japanese Spurge .....	4.00	
32 93 23 00-0075	EA	6" Pot Japanese Spurge .....	6.00	
32 93 23 00-0076	EA	1 Gallon Japanese Spurge .....	25.83	
32 93 23 00-0077	EA	1 Quart Oriental Poppy .....	16.12	
32 93 23 00-0078	EA	1 Gallon Oriental Poppy.....	32.24	
32 93 23 00-0079	EA	48 Plant Flat Pachysandra terminalis .....	133.63	
32 93 23 00-0080	EA	1 Gallon Pacific Coast Iris.....	22.12	
32 93 23 00-0081	EA	3 Gallon Pacific Coast Iris.....	41.99	
32 93 23 00-0082	EA	1 Gallon Palace Purple Coral Bells.....	42.57	
32 93 23 00-0083	EA	4" Pot Perennial Salvia .....	6.75	
32 93 23 00-0084	EA	1 Quart Perennial Salvia .....	11.24	
32 93 23 00-0085	EA	1 Gallon Perennial Salvia .....	28.11	
32 93 23 00-0086	EA	1 Quart Pincushion Flower.....	11.24	
32 93 23 00-0087	EA	1 Gallon Pincushion Flower .....	28.11	
32 93 23 00-0088	EA	2 Quart Plantain Lily.....	21.74	
32 93 23 00-0089	EA	1 Gallon Plantain Lily .....	30.74	
32 93 23 00-0090	EA	2 Gallon Plantain Lily .....	50.98	
32 93 23 00-0091	EA	3 Gallon Plantain Lily .....	96.35	
32 93 23 00-0092	EA	2 Quart Purple Coneflower .....	20.24	
32 93 23 00-0093	EA	1 Gallon Purple Coneflower .....	28.11	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 23 00-0094 EA 2 Gallon Purple Coneflower .....	36.36	
32 93 23 00-0095 EA 1 Quart Purple Loosestrife .....	11.24	
32 93 23 00-0096 EA 1 Gallon Purple Loosestrife .....	28.11	
32 93 23 00-0097 EA 1 Quart Rose Mallow .....	22.12	
32 93 23 00-0098 EA 2 Gallon Rose Mallow .....	40.11	
32 93 23 00-0099 EA 3 Gallon Rose Mallow .....	68.60	
32 93 23 00-0100 EA 1 Gallon Autumn Joy Sedum .....	42.86	
32 93 23 00-0101 EA 1 Quart Siberian Iris .....	19.12	
32 93 23 00-0102 EA 2 Gallon Siberian Iris .....	36.36	
32 93 23 00-0103 EA 3 Gallon Siberian Iris .....	50.23	
32 93 23 00-0104 EA 1 Quart Speedwell .....	11.24	
32 93 23 00-0105 EA 1 Gallon Speedwell .....	28.11	
32 93 23 00-0106 EA 1 Quart Tetraploid .....	28.11	
32 93 23 00-0107 EA 1 Gallon Tetraploid .....	52.48	
32 93 23 00-0108 EA 3 Gallon Tetraploid .....	71.60	
32 93 23 00-0109 EA 1 Quart Threadleaf Coreopsis .....	11.24	
32 93 23 00-0110 EA 1 Gallon Threadleaf Coreopsis .....	28.11	
32 93 23 00-0111 EA 1 Quart Torch Lily .....	11.24	
32 93 23 00-0112 EA 1 Quart Bluebeard .....	20.24	
32 93 23 00-0113 EA 1 Gallon Bluebeard .....	29.99	
32 93 23 00-0114 EA 2 Gallon Bluebeard .....	43.86	
<b>32 93 23 00-0115</b>	<b>Annuals</b> <small>(32 93 23)</small>	
32 93 23 00-0116 EA 2-1/2" Pot Annual Flowers .....	5.22	
32 93 23 00-0117 EA 3" Pot Annual Flowers .....	7.06	
32 93 23 00-0118 EA 4" Pot Annual Flowers .....	15.09	
32 93 23 00-0119 EA 5-1/2" Pot Annual Flowers .....	20.06	
32 93 23 00-0120 EA 6" Pot Annual Flowers .....	39.73	
32 93 23 00-0121 EA 8" Pot Annual Flowers .....	66.21	
32 93 23 00-0122 EA 36 Plant Flat Annual Flowers .....	86.68	
32 93 23 00-0123 EA 48 Plant Flat Annual Flowers .....	98.31	
<b>32 93 23 00-0124</b>	<b>Bulbs</b> <small>(32 93 23)</small>	
32 93 23 00-0125 EA Top Size Allium giganteum - Giant Ornamental Onion .....	18.15	
32 93 23 00-0126 EA Top Size Allium sphaerocephalum - Drumstick Ornamental Onion .....	1.05	
32 93 23 00-0127 EA Top Size Crocus Hybrid .....	1.19	
32 93 23 00-0128 EA Top Size Eranthis hyemalis - Winter Aconite .....	1.54	
32 93 23 00-0129 EA Top Size Galanthus nivalis - Snowdrops .....	1.95	
32 93 23 00-0130 EA Top Size Iris reticulata cvs - Dutch Iris .....	0.77	
32 93 23 00-0131 EA Top Size Muscari armeniacum - Grape Hyacinth .....	0.91	
32 93 23 00-0132 EA Top Size Muscari latifolium - Grape Hyacinth .....	1.05	
32 93 23 00-0133 EA Narcissus 'Carlton' - Carlton Daffodil DNI .....	6.28	
32 93 23 00-0134 EA Narcissus 'Dutch Master' - Dutch Master Daffodil DNI .....	3.00	
32 93 23 00-0135 EA Narcissus 'February Gold' - February Gold Daffodil DNI .....	3.14	
32 93 23 00-0136 EA Narcissus 'Ice Follies' - Ice Follies Daffodil DNI .....	3.14	
32 93 23 00-0137 EA Narcissus 'Mount Hood' - Mount Hood Daffodil DNI .....	3.28	
32 93 23 00-0138 EA Narcissus 'Papillon Blanc' - Papillon Blanc Daffodil DNI .....	3.49	
32 93 23 00-0139 EA Narcissus 'Pipit' - Pipit Daffodil DNI .....	3.28	
32 93 23 00-0140 EA Narcissus 'Salome' - Salome Daffodil DNI .....	3.07	
32 93 23 00-0141 EA Narcissus 'Tete A Tete' - Tete A Tete Daffodil DNI .....	3.28	
32 93 23 00-0142 EA Narcissus 'Thalia' - Thalia Daffodil DNI .....	3.28	
32 93 23 00-0143 EA Top Size Scilla siberica - Siberian Squill .....	0.98	
32 93 23 00-0144 EA Top Size Tulip 'Angelique' - Angelique Tulip .....	2.79	
32 93 23 00-0145 EA Top Size Tulip 'Apeldoorn' - Apeldoorn Tulip .....	2.09	
32 93 23 00-0146 EA Top Size Tulip 'Apricot Beauty' - Apricot Beauty Tulip .....	2.79	
32 93 23 00-0147 EA Top Size Tulip 'Big Smile' - Big Smile Tulip .....	2.44	
32 93 23 00-0148 EA Top Size Tulip 'Black Parrot' - Black Parrot Tulip .....	3.49	
32 93 23 00-0149 EA Top Size Tulip 'Blue Heron' - Blue Heron Tulip .....	2.65	
32 93 23 00-0150 EA Top Size Tulip 'Cardinal' - Cardinal Tulip .....	2.30	
32 93 23 00-0151 EA Top Size Tulip 'Christmas Marvel' - Christmas Marvel Tulip .....	2.58	
32 93 23 00-0152 EA Top Size Tulip clusiana - Species Tulip .....	2.58	
32 93 23 00-0153 EA Top Size Tulip 'Elizabeth Arden' - Elizabeth Arden Tulip .....	2.58	
32 93 23 00-0154 EA Top Size Tulip 'Golden Apledoorn' - Golden Apledoorn Tulip .....	2.09	
32 93 23 00-0155 EA Top Size Tulip 'Golden Emperor' - Golden Emperor Tulip .....	2.02	
32 93 23 00-0156 EA Top Size Tulip 'Halcro' - Halcro Tulip .....	2.09	
32 93 23 00-0157 EA Top Size Tulip 'Ivory Floradale' - Ivory Floradale Tulip .....	3.49	
32 93 23 00-0158 EA Top Size Tulip 'Orange Emperor' - Orange Emperor Tulip .....	2.09	
32 93 23 00-0159 EA Top Size Tulip 'Passionale' - Passionale Tulip .....	2.79	
32 93 23 00-0160 EA Top Size Tulip 'Peach Blossom' - Peach Blossom Tulip .....	3.00	
32 93 23 00-0161 EA Top Size Tulip 'Peer Gynt' - Peer Gynt Tulip .....	3.14	
32 93 23 00-0162 EA Top Size Tulip 'Pink Diamond' - Pink Diamond Tulip .....	2.51	
32 93 23 00-0163 EA Top Size Tulip 'Pink Emperor' - Pink Emperor Tulip .....	2.37	
32 93 23 00-0164 EA Top Size Tulip praetens 'Fusilier' - Praetens Fusilier Tulip .....	2.58	
32 93 23 00-0165 EA Top Size Tulip 'Princes' - Princes Tulip .....	2.58	
32 93 23 00-0166 EA Top Size Tulip 'Red Riding Hood' - Red Riding Hood Tulip .....	2.02	
32 93 23 00-0167 EA Top Size Tulip saxatilis - Species Tulip .....	1.40	
32 93 23 00-0168 EA Top Size Tulip 'Shirley' - Shirley Tulip .....	2.09	
32 93 23 00-0169 EA Top Size Tulip 'Spring Green' - Spring Green Tulip .....	2.72	
32 93 23 00-0170 EA Top Size Tulip 'White Emperor' - White Emperor Tulip .....	2.09	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**32 93 33****Shrubs** (32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0033 for installation and planting of shrubs.

**32 93 33 00-0001****Shrubs** (32 93 33)

32 93 33 00-0002	EA	1 Gallon Abelia x grandiflora - Abelia.....	16.14
32 93 33 00-0003	EA	3 Gallon Abelia x grandiflora - Abelia.....	32.87
32 93 33 00-0004	EA	5 Gallon Abelia x grandiflora - Abelia.....	63.09
32 93 33 00-0005	EA	1 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia.....	9.27
32 93 33 00-0006	EA	5 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia.....	22.92
32 93 33 00-0007	EA	15 Gallon Abelia grandiflora 'Edward Goucher' - Pink Abelia.....	90.99
32 93 33 00-0008	EA	3 Gallon Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	92.80
32 93 33 00-0009	EA	18" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	135.63
32 93 33 00-0010	EA	24" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	151.33
32 93 33 00-0011	EA	30" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	191.31
32 93 33 00-0012	EA	36" Balled and Burlapped, Aesculus parviflora 'Rogers' - Rogers Bottlebrush Buckeye.....	212.72
32 93 33 00-0013	EA	18" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye.....	42.83
32 93 33 00-0014	EA	24" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye.....	57.11
32 93 33 00-0015	EA	30" Balled and Burlapped, Aesculus parviflora - Bottlebrush Buckeye.....	71.38
32 93 33 00-0016	EA	1 Gallon Agapanthus 'Peter Pan' - Lily of the Nile.....	9.27
32 93 33 00-0017	EA	5 Gallon Agapanthus 'Peter Pan' - Lily of the Nile.....	22.92
32 93 33 00-0018	EA	36" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	39.42
32 93 33 00-0019	EA	42" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	46.38
32 93 33 00-0020	EA	48" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	55.65
32 93 33 00-0021	EA	60" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	64.93
32 93 33 00-0022	EA	72" Balled and Burlapped, Aronia arbutifolia & cvs - Red Chokeberry.....	78.84
32 93 33 00-0023	EA	36" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry.....	38.26
32 93 33 00-0024	EA	42" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry.....	40.58
32 93 33 00-0025	EA	48" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry.....	42.90
32 93 33 00-0026	EA	60" Balled and Burlapped, Aronia melanocarpa & cvs - Black Chokeberry.....	48.69
32 93 33 00-0027	EA	36" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry.....	38.84
32 93 33 00-0028	EA	42" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry.....	41.16
32 93 33 00-0029	EA	48" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry.....	43.48
32 93 33 00-0030	EA	60" Balled and Burlapped, Aronia prunifolia - Purple-Fruited Chokeberry.....	45.80
32 93 33 00-0031	EA	1 Gallon Aspidistra elatior - Cast Iron Plant.....	7.97
32 93 33 00-0032	EA	2 Gallon Aspidistra elatior - Cast Iron Plant.....	18.43
32 93 33 00-0033	EA	1 Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	9.34
32 93 33 00-0034	EA	3 Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	20.55
32 93 33 00-0035	EA	5 Gallon Aucuba japonica "Variegata" - Gold Dust Plant.....	27.78
32 93 33 00-0036	EA	1 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	9.27
32 93 33 00-0037	EA	5 Gallon Baccharis pilularis 'Pigeon Point' - Dwarf Coyote Brush.....	22.92
32 93 33 00-0038	EA	1 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	9.27
32 93 33 00-0039	EA	5 Gallon Baccharis pilularis 'Twin Peaks' - Dwarf Coyote Brush.....	22.92
32 93 33 00-0040	EA	1 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	9.96
32 93 33 00-0041	EA	2 Gallon Bauhinia purpurea - Orange-eye Butterfly Bush.....	14.57
32 93 33 00-0042	EA	15" To 18" Berberis - Northern Bayberry.....	41.60
32 93 33 00-0043	EA	2' To 2-1/2' Berberis - Northern Bayberry.....	52.81
32 93 33 00-0044	EA	2-1/2' To 3' Berberis - Northern Bayberry.....	73.98
32 93 33 00-0045	EA	1 Gallon Berberis Buxifolia 'Nana' - Barberry.....	10.46
32 93 33 00-0046	EA	5 Gallon Berberis Buxifolia 'Nana' - Barberry.....	25.22
32 93 33 00-0047	EA	18" To 24" Berberis julianae - Dwarf Wintergreen Barberry.....	44.46
32 93 33 00-0048	EA	2' To 2-1/2' Berberis julianae - Dwarf Wintergreen Barberry.....	56.92
32 93 33 00-0049	EA	2-1/2' To 3' Berberis julianae - Dwarf Wintergreen Barberry.....	72.74
32 93 33 00-0050	EA	1 Gallon Berberis thunbergii - Crimson Pygmy Barberry.....	11.96
32 93 33 00-0051	EA	2 Gallon Berberis thunbergii - Crimson Pygmy Barberry.....	23.54
32 93 33 00-0052	EA	3 Gallon Berberis thunbergii - Crimson Pygmy Barberry.....	28.77
32 93 33 00-0053	EA	1 Gallon Berberis x mentorensis - Mentor Barberry.....	11.33
32 93 33 00-0054	EA	5 Gallon Berberis x mentorensis - Mentor Barberry.....	32.01
32 93 33 00-0055	EA	2' To 3' Berberis x mentorensis - Mentor Barberry.....	44.46
32 93 33 00-0056	EA	3' To 4' Berberis x mentorensis - Mentor Barberry.....	68.63
32 93 33 00-0057	EA	1 Gallon Buxus microphylla japonica - Japanese Boxwood.....	12.95
32 93 33 00-0058	EA	5 Gallon Buxus microphylla japonica - Japanese Boxwood.....	34.75
32 93 33 00-0059	EA	12" To 15" Buxus microphylla japonica - Japanese Boxwood.....	36.99
32 93 33 00-0060	EA	15" To 18" Buxus microphylla japonica - Japanese Boxwood.....	47.58
32 93 33 00-0061	EA	18" To 24" Buxus microphylla japonica - Japanese Boxwood.....	63.40
32 93 33 00-0062	EA	24" To 30" Buxus microphylla japonica - Japanese Boxwood.....	95.16
32 93 33 00-0063	EA	30" To 36" Buxus microphylla japonica - Japanese Boxwood.....	132.15
32 93 33 00-0064	EA	12" To 15" Buxus sempervirens - Common Boxwood.....	36.99
32 93 33 00-0065	EA	15" To 18" Buxus sempervirens - Common Boxwood.....	47.58
32 93 33 00-0066	EA	18" To 24" Buxus sempervirens - Common Boxwood.....	63.40
32 93 33 00-0067	EA	24" To 30" Buxus sempervirens - Common Boxwood.....	95.16
32 93 33 00-0068	EA	2 Gallon Buxus Hybrid - Boxwood Cultivars.....	24.35
32 93 33 00-0069	EA	5 Gallon Buxus Hybrid - Boxwood Cultivars.....	40.58
32 93 33 00-0070	EA	5 Gallon Buxus microphylla & cvs - Little leaf Boxwood.....	106.66
32 93 33 00-0071	EA	18" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	57.97
32 93 33 00-0072	EA	24" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	78.84
32 93 33 00-0073	EA	30" Balled and Burlapped, Buxus microphylla & cvs - Little leaf Boxwood.....	106.66
32 93 33 00-0074	EA	1 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	5.62
32 93 33 00-0075	EA	5 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	17.29
32 93 33 00-0076	EA	15 Gallon Callistemon citrinus 'Little John' - Dwarf Bottle Bush.....	56.18
32 93 33 00-0077	EA	5 Gallon Calycanthus floridus - Common Sweetshrub.....	38.26





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0078	EA	30"	Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	34.78	
32 93 33 00-0079	EA	36"	Balled and Burlapped, Calycanthus floridus - Common Sweetshrub.....	46.38	
32 93 33 00-0080	EA	1	Gallon Camellia "Sasanqua" - Camellia.....	11.53	
32 93 33 00-0081	EA	3	Gallon Camellia "Sasanqua" - Camellia.....	24.59	
32 93 33 00-0082	EA	5	Gallon Camellia "Sasanqua" - Camellia.....	40.88	
32 93 33 00-0083	EA	7	Gallon Camellia "Sasanqua" - Camellia.....	60.87	
32 93 33 00-0084	EA	15	Gallon Camellia "Sasanqua" - Camellia.....	157.94	
32 93 33 00-0085	EA	1	Gallon Camellia japonica - Camellia.....	11.53	
32 93 33 00-0086	EA	3	Gallon Camellia japonica - Camellia.....	24.59	
32 93 33 00-0087	EA	5	Gallon Camellia japonica - Camellia.....	40.88	
32 93 33 00-0088	EA	5	Gallon Ceanothus americanus - New Jersey Tea.....	38.26	
32 93 33 00-0089	EA	1	Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	10.46	
32 93 33 00-0090	EA	5	Gallon Ceanothus Griseus Horizontalis 'Yankee Point' - Yankee Point Ceanothus.....	27.21	
32 93 33 00-0091	EA	5	Gallon Celastrus scandens - Bittersweet.....	38.26	
32 93 33 00-0092	EA	36"	Balled and Burlapped, Celastrus scandens - Bittersweet.....	32.46	
32 93 33 00-0093	EA	5	Gallon Cephalanthus occidentalis - Buttonbush.....	38.26	
32 93 33 00-0094	EA	24"	Balled and Burlapped, Cephalanthus occidentalis - Buttonbush.....	28.98	
32 93 33 00-0095	EA	30"	Balled and Burlapped, Cephalanthus occidentalis - Buttonbush.....	32.46	
32 93 33 00-0096	EA	36"	Balled and Burlapped, Cephalanthus occidentalis - Buttonbush.....	34.78	
32 93 33 00-0097	EA	18"	To 24" Chaenomeles speciosa - Flowering Quince.....	33.38	
32 93 33 00-0098	EA	2'	To 3' Chaenomeles speciosa - Flowering Quince.....	44.46	
32 93 33 00-0099	EA	3'	To 4' Chaenomeles speciosa - Flowering Quince.....	68.63	
32 93 33 00-0100	EA	1	Gallon Cistus Hybridus - White Rockrose.....	9.27	
32 93 33 00-0101	EA	5	Gallon Cistus Hybridus - White Rockrose.....	22.92	
32 93 33 00-0102	EA	3	Gallon Clethra alnifolia & cvs - Summersweet Clethra.....	37.10	
32 93 33 00-0103	EA	18"	Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	40.00	
32 93 33 00-0104	EA	24"	Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	44.64	
32 93 33 00-0105	EA	30"	Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	46.96	
32 93 33 00-0106	EA	36"	Balled and Burlapped, Clethra alnifolia & cvs - Summersweet Clethra.....	55.07	
32 93 33 00-0107	EA	1	Gallon Coleonema Pulchellum - Confetti Bush.....	9.27	
32 93 33 00-0108	EA	5	Gallon Coleonema Pulchellum - Confetti Bush.....	22.92	
32 93 33 00-0109	EA	15	Gallon Coleonema Pulchellum - Confetti Bush.....	107.34	
32 93 33 00-0110	EA	2'	To 3' Cornus mas - Cornelian Cherry.....	52.81	
32 93 33 00-0111	EA	3'	To 4' Cornus mas - Cornelian Cherry.....	66.01	
32 93 33 00-0112	EA	4'	To 5' Cornus mas - Cornelian Cherry.....	84.57	
32 93 33 00-0113	EA	5'	To 6' Cornus mas - Cornelian Cherry.....	116.21	
32 93 33 00-0114	EA	5	Gallon Cornus alba & cvs - Tartarian Dogwood.....	34.78	
32 93 33 00-0115	EA	36"	Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	24.35	
32 93 33 00-0116	EA	48"	Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	27.83	
32 93 33 00-0117	EA	60"	Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	34.78	
32 93 33 00-0118	EA	72"	Balled and Burlapped, Cornus alba & cvs - Tartarian Dogwood.....	41.74	
32 93 33 00-0119	EA	36"	Balled and Burlapped, Cornus amomum - Silky Dogwood.....	34.78	
32 93 33 00-0120	EA	5	Gallon Cornus obliqua - Blue Fruited Dogwood.....	38.26	
32 93 33 00-0121	EA	5	Gallon Cornus racemosa - Gray Dogwood.....	38.26	
32 93 33 00-0122	EA	36"	Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	34.78	
32 93 33 00-0123	EA	48"	Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	40.58	
32 93 33 00-0124	EA	60"	Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	44.06	
32 93 33 00-0125	EA	72"	Balled and Burlapped, Cornus racemosa - Gray Dogwood.....	53.33	
32 93 33 00-0126	EA	36"	Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	37.68	
32 93 33 00-0127	EA	48"	Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	42.32	
32 93 33 00-0128	EA	60"	Balled and Burlapped, Cornus sanguinea & cvs - Bloodtwig Dogwood.....	48.11	
32 93 33 00-0129	EA	24"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	30.14	
32 93 33 00-0130	EA	30"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	34.78	
32 93 33 00-0131	EA	36"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	37.10	
32 93 33 00-0132	EA	48"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	40.58	
32 93 33 00-0133	EA	60"	Balled and Burlapped, Cornus sericea & cvs - Redosier Dogwood.....	45.22	
32 93 33 00-0134	EA	5	Gallon Corylus americana - American Filbert.....	35.94	
32 93 33 00-0135	EA	30"	Balled and Burlapped, Corylus americana - American Filbert.....	40.58	
32 93 33 00-0136	EA	36"	Balled and Burlapped, Corylus americana - American Filbert.....	43.48	
32 93 33 00-0137	EA	48"	Balled and Burlapped, Corylus americana - American Filbert.....	46.96	
32 93 33 00-0138	EA	24"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	115.94	
32 93 33 00-0139	EA	30"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	150.72	
32 93 33 00-0140	EA	36"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	162.31	
32 93 33 00-0141	EA	42"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	208.69	
32 93 33 00-0142	EA	48"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	255.07	
32 93 33 00-0143	EA	60"	Balled and Burlapped, Corylus avellana - Contorted Hazelnut.....	289.85	
32 93 33 00-0144	EA	5'	To 6' Cotinus coggygria - Smoke Tree.....	110.97	
32 93 33 00-0145	EA	6'	To 8' Cotinus coggygria - Smoke Tree.....	166.40	
32 93 33 00-0146	EA	8'	To 10' Cotinus coggygria - Smoke Tree.....	250.97	
32 93 33 00-0147	EA	5	Gallon Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	28.98	
32 93 33 00-0148	EA	18"	Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	28.98	
32 93 33 00-0149	EA	24"	Balled and Burlapped, Cotoneaster acutifolia & cvs - Peking Cotoneaster.....	30.14	
32 93 33 00-0150	EA	12"	To 15" Spread Cotoneaster adpressus - Creeping Cotoneaster.....	27.77	
32 93 33 00-0151	EA	3	Gallon Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	30.14	
32 93 33 00-0152	EA	18"	Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	28.98	
32 93 33 00-0153	EA	24"	Balled and Burlapped, Cotoneaster apiculata & cvs - Cranberry Cotoneaster.....	30.14	
32 93 33 00-0154	EA	1	Gallon Cotoneaster divaricatus - Spreading Cotoneaster.....	11.96	
32 93 33 00-0155	EA	2'	To 3' Cotoneaster divaricatus - Spreading Cotoneaster.....	36.99	
32 93 33 00-0156	EA	3'	To 4' Cotoneaster divaricatus - Spreading Cotoneaster.....	49.94	
32 93 33 00-0157	EA	4'	To 5' Cotoneaster divaricatus - Spreading Cotoneaster.....	84.57	
32 93 33 00-0158	EA	1	Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster.....	9.27	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 33 00-0159	EA	5 Gallon Cotoneaster glaucophyllus - Gray Leaf Cotoneaster	22.92	
32 93 33 00-0160	EA	1 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	11.96	
32 93 33 00-0161	EA	2 Gallon Cotoneaster horizontalis - Rockspray Cotoneaster	23.54	
32 93 33 00-0162	EA	1 Gallon Cotoneaster lacteus - Red Clusterberry	9.27	
32 93 33 00-0163	EA	5 Gallon Cotoneaster lacteus - Red Clusterberry	22.92	
32 93 33 00-0164	EA	15 Gallon Cotoneaster lacteus - Red Clusterberry	90.99	
32 93 33 00-0165	EA	1 Gallon Dendromecon harfordii - Island Bush Poppy	14.41	
32 93 33 00-0166	EA	5 Gallon Dendromecon harfordii - Island Bush Poppy	36.02	
32 93 33 00-0167	EA	18" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	29.56	
32 93 33 00-0168	EA	24" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	32.46	
32 93 33 00-0169	EA	30" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	41.74	
32 93 33 00-0170	EA	36" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	48.69	
32 93 33 00-0171	EA	42" Balled and Burlapped, Deutzia gracilis - Slender Deutzia	55.65	
32 93 33 00-0172	EA	24" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	46.38	
32 93 33 00-0173	EA	30" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	55.65	
32 93 33 00-0174	EA	36" Balled and Burlapped, Diervilla sessilifolia - Southern Bush Honeysuckle	64.93	
32 93 33 00-0175	EA	2 Gallon Diervilla splendens - Splendens Bush Honeysuckle	17.39	
32 93 33 00-0176	EA	36" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	41.74	
32 93 33 00-0177	EA	48" Balled and Burlapped, Diervilla splendens - Splendens Bush Honeysuckle	55.65	
32 93 33 00-0178	EA	5 Gallon Elaeagnus angustifolia - Russian Olive	22.92	
32 93 33 00-0179	EA	1 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	9.27	
32 93 33 00-0180	EA	5 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	22.92	
32 93 33 00-0181	EA	15 Gallon Elaeagnus ebbingei 'Gilt Edge' - Gilt Edge Silverberry	90.99	
32 93 33 00-0182	EA	1 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	9.27	
32 93 33 00-0183	EA	5 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	22.92	
32 93 33 00-0184	EA	15 Gallon Elaeagnus pungens 'Fruitlandii' - Fruitland Silverberry	90.99	
32 93 33 00-0185	EA	3' To 4' Elaeagnus umbellata - Autumn Olive	34.63	
32 93 33 00-0186	EA	4' To 5' Elaeagnus umbellata - Autumn Olive	47.58	
32 93 33 00-0187	EA	5' To 6' Elaeagnus umbellata - Autumn Olive	56.92	
32 93 33 00-0188	EA	3' To 4' Elaeagnus angustifolia - Russian Olive	55.43	
32 93 33 00-0189	EA	1 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	9.27	
32 93 33 00-0190	EA	5 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	22.92	
32 93 33 00-0191	EA	15 Gallon Escallonia x exoniensis 'Fradesii' - Pink Princess Escallonia	90.99	
32 93 33 00-0192	EA	1 Gallon Euonymus - Gold Spot	9.97	
32 93 33 00-0193	EA	2 Gallon Euonymus - Gold Spot	20.92	
32 93 33 00-0194	EA	5 Gallon Euonymus - Gold Spot	28.77	
32 93 33 00-0195	EA	1 Gallon Euonymus alatus - Winged Euonymus	8.51	
32 93 33 00-0196	EA	3 Gallon Euonymus alatus - Winged Euonymus	24.53	
32 93 33 00-0197	EA	24" Balled and Burlapped, Euonymus alatus - Winged Euonymus	33.07	
32 93 33 00-0198	EA	30" Balled and Burlapped, Euonymus alatus - Winged Euonymus	41.33	
32 93 33 00-0199	EA	36" Balled and Burlapped, Euonymus alatus - Winged Euonymus	56.80	
32 93 33 00-0200	EA	42" Balled and Burlapped, Euonymus alatus - Winged Euonymus	70.13	
32 93 33 00-0201	EA	48" Balled and Burlapped, Euonymus alatus - Winged Euonymus	82.66	
32 93 33 00-0202	EA	54" Balled and Burlapped, Euonymus alatus - Winged Euonymus	106.66	
32 93 33 00-0203	EA	5 Gallon Euonymus alatus - Winged Euonymus	30.67	
32 93 33 00-0204	EA	60" Balled and Burlapped, Euonymus alatus - Winged Euonymus	133.33	
32 93 33 00-0205	EA	30" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	52.17	
32 93 33 00-0206	EA	36" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	62.03	
32 93 33 00-0207	EA	42" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	81.16	
32 93 33 00-0208	EA	48" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	97.39	
32 93 33 00-0209	EA	60" Balled and Burlapped, Euonymus alatus compactus - Compact Winged Euonymus	120.58	
32 93 33 00-0210	EA	18" To 24" Euonymus alatus - Winged Burning Bush	36.99	
32 93 33 00-0211	EA	2' To 2-1/2' Euonymus alatus - Winged Burning Bush	43.59	
32 93 33 00-0212	EA	2-1/2' To 3' Euonymus alatus - Winged Burning Bush	59.54	
32 93 33 00-0213	EA	3' To 3-1/2' Euonymus alatus - Winged Burning Bush	71.37	
32 93 33 00-0214	EA	3-1/2' To 4' Euonymus alatus - Winged Burning Bush	89.80	
32 93 33 00-0215	EA	4' To 5' Euonymus alatus - Winged Burning Bush	126.79	
32 93 33 00-0216	EA	5' To 6' Euonymus alatus - Winged Burning Bush	158.55	
32 93 33 00-0217	EA	6' To 8' Euonymus alatus - Winged Burning Bush	184.96	
32 93 33 00-0218	EA	15" To 18" Euonymus alatus - Dwarf Winged Burning Bush	36.99	
32 93 33 00-0219	EA	18" To 24" Euonymus alatus - Dwarf Winged Burning Bush	42.22	
32 93 33 00-0220	EA	2' To 2-1/2' Euonymus alatus - Dwarf Winged Burning Bush	51.56	
32 93 33 00-0221	EA	2-1/2' To 3' Euonymus alatus - Dwarf Winged Burning Bush	72.74	
32 93 33 00-0222	EA	3' To 3-1/2' Euonymus alatus - Dwarf Winged Burning Bush	85.94	
32 93 33 00-0223	EA	3-1/2' To 4' Euonymus alatus - Dwarf Winged Burning Bush	103.00	
32 93 33 00-0224	EA	4' To 5' Euonymus alatus - Dwarf Winged Burning Bush	145.35	
32 93 33 00-0225	EA	5' To 6' Euonymus alatus - Dwarf Winged Burning Bush	171.76	
32 93 33 00-0226	EA	36" Balled and Burlapped, Euonymus atropurpurea - Eastern Wahoo	31.30	
32 93 33 00-0227	EA	1 Gallon Euonymus fortunei - Wintercreeper	11.96	
32 93 33 00-0228	EA	2 Gallon Euonymus fortunei - Wintercreeper	23.54	
32 93 33 00-0229	EA	3 Gallon Euonymus fortunei - Wintercreeper	28.77	
32 93 33 00-0230	EA	5 Gallon Euonymus fortunei - Wintercreeper	34.13	
32 93 33 00-0231	EA	1 Gallon Euonymus japonicus - Evergreen Spindle	9.27	
32 93 33 00-0232	EA	5 Gallon Euonymus japonicus - Evergreen Spindle	22.92	
32 93 33 00-0233	EA	15 Gallon Euonymus japonicus - Evergreen Spindle	90.99	
32 93 33 00-0234	EA	2' To 3' Forsythia - Korean Forsythia	26.40	
32 93 33 00-0235	EA	3' To 4' Forsythia - Korean Forsythia	33.38	
32 93 33 00-0236	EA	4' To 5' Forsythia - Korean Forsythia	41.60	
32 93 33 00-0237	EA	30" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	26.67	
32 93 33 00-0238	EA	36" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	29.56	
32 93 33 00-0239	EA	48" Balled and Burlapped, Forsythia cvs - Forsythia cultivars	31.88	



<b>Exterior Improvements</b>		<b>32</b>
Planting		32 90
Plants		32 93

MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
32 93 33 00-0240	EA	18" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	27.83	
32 93 33 00-0241	EA	24" Balled and Burlapped, Forsythia viridissima & cvs - Green Forsythia	37.10	
32 93 33 00-0242	EA	24" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	27.83	
32 93 33 00-0243	EA	30" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	32.46	
32 93 33 00-0244	EA	36" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	38.26	
32 93 33 00-0245	EA	42" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	44.06	
32 93 33 00-0246	EA	48" Balled and Burlapped, Forsythia x intermedia & cvs - Border Forsythia	51.01	
32 93 33 00-0247	EA	2 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	39.42	
32 93 33 00-0248	EA	3 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	55.07	
32 93 33 00-0249	EA	5 Gallon Fothergilla gardenii & cvs - Dwarf Fothergilla	57.97	
32 93 33 00-0250	EA	15" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	60.29	
32 93 33 00-0251	EA	18" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	64.93	
32 93 33 00-0252	EA	24" Balled and Burlapped, Fothergilla gardenii & cvs - Dwarf Fothergilla	78.84	
32 93 33 00-0253	EA	24" Balled and Burlapped, Fothergilla major - Large Fothergilla	102.03	
32 93 33 00-0254	EA	30" Balled and Burlapped, Fothergilla major - Large Fothergilla	115.94	
32 93 33 00-0255	EA	1 Gallon Gardenia jasminoides - Cape Jasmine	8.59	
32 93 33 00-0256	EA	3 Gallon Gardenia jasminoides - Cape Jasmine	22.54	
32 93 33 00-0257	EA	5 Gallon Gardenia jasminoides - Cape Jasmine	28.77	
32 93 33 00-0258	EA	1 Gallon Grevillea 'Noellii' - Noel's Grevillea	9.27	
32 93 33 00-0259	EA	5 Gallon Grevillea 'Noellii' - Noel's Grevillea	22.92	
32 93 33 00-0260	EA	15 Gallon Grevillea 'Noellii' - Noel's Grevillea	90.99	
32 93 33 00-0261	EA	36" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	81.16	
32 93 33 00-0262	EA	48" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	132.17	
32 93 33 00-0263	EA	60" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	166.95	
32 93 33 00-0264	EA	72" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	255.07	
32 93 33 00-0265	EA	84" Balled and Burlapped, Hamamelis vernalis & cvs - Vernal Witchhazel	289.85	
32 93 33 00-0266	EA	1 Gallon Hedychium gartdnerum - Variegated Ginger	4.93	
32 93 33 00-0267	EA	3 Gallon Hedychium gartdnerum - Variegated Ginger	17.33	
32 93 33 00-0268	EA	5 Gallon Hedychium gartdnerum - Variegated Ginger	33.33	
32 93 33 00-0269	EA	1 Gallon Hibiscus rosa-sinensis - Hibiscus	12.64	
32 93 33 00-0270	EA	3 Gallon Hibiscus rosa-sinensis - Hibiscus	21.33	
32 93 33 00-0271	EA	5 Gallon Hibiscus rosa-sinensis - Hibiscus	32.27	
32 93 33 00-0272	EA	5 Gallon Hibiscus syriacus - Rose Of Sharon	33.38	
32 93 33 00-0273	EA	2' To 3' Hibiscus syriacus - Rose Of Sharon	28.40	
32 93 33 00-0274	EA	3' To 4' Hibiscus syriacus - Rose Of Sharon	38.36	
32 93 33 00-0275	EA	4' To 5' Hibiscus syriacus - Rose Of Sharon	55.42	
32 93 33 00-0276	EA	5' To 6' Hibiscus syriacus - Rose Of Sharon	76.60	
32 93 33 00-0277	EA	2 Gallon Hydrangea - Blue Hydrangea	23.54	
32 93 33 00-0278	EA	5 Gallon Hydrangea - Blue Hydrangea	33.13	
32 93 33 00-0279	EA	2' To 3' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	36.99	
32 93 33 00-0280	EA	3' To 4' Hydrangea paniculata "Grandiflora" - Peegee Hydrangea	42.22	
32 93 33 00-0281	EA	2 Gallon Hydrangea quercifolia - Oakleaf Hydrangea	23.54	
32 93 33 00-0282	EA	5 Gallon Hydrangea arborescens & cvs - Smooth Hydrangea	40.58	
32 93 33 00-0283	EA	30" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	44.06	
32 93 33 00-0284	EA	36" Balled and Burlapped, Hydrangea arborescens & cvs - Smooth Hydrangea	51.01	
32 93 33 00-0285	EA	4 Gallon Hydrangea macrophylla & cvs - Bigleaf Hydrangea	53.33	
32 93 33 00-0286	EA	18" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	41.74	
32 93 33 00-0287	EA	24" Balled and Burlapped, Hydrangea macrophylla & cvs - Bigleaf Hydrangea	55.65	
32 93 33 00-0288	EA	3 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	24.35	
32 93 33 00-0289	EA	5 Gallon Hydrangea paniculata & cvs - Panicle Hydrangea	28.98	
32 93 33 00-0290	EA	18" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	24.93	
32 93 33 00-0291	EA	24" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	26.67	
32 93 33 00-0292	EA	30" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	30.14	
32 93 33 00-0293	EA	36" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	34.78	
32 93 33 00-0294	EA	48" Balled and Burlapped, Hydrangea paniculata & cvs - Panicle Hydrangea	46.38	
32 93 33 00-0295	EA	18" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	33.62	
32 93 33 00-0296	EA	24" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	38.26	
32 93 33 00-0297	EA	30" Balled and Burlapped, Hydrangea quercifolia & cvs - Oakleaf Hydrangea	45.22	
32 93 33 00-0298	EA	2 Gallon Hypericum kalmianum - St. John's Wort	23.54	
32 93 33 00-0299	EA	3 Gallon Hypericum kalmianum - Kalm St. John's Wort	27.83	
32 93 33 00-0300	EA	24" Balled and Burlapped, Hypericum kalmianum - Kalm St. John's Wort	30.14	
32 93 33 00-0301	EA	1 Gallon Ilex "Carissa" - Holly	11.96	
32 93 33 00-0302	EA	2 Gallon Ilex "Carissa" - Holly	23.54	
32 93 33 00-0303	EA	5 Gallon Ilex "Carissa" - Holly	33.13	
32 93 33 00-0304	EA	18" To 24" Ilex - Gulfside Sweet Holly	31.76	
32 93 33 00-0305	EA	2' To 2-1/2' Ilex - Gulfside Sweet Holly	40.23	
32 93 33 00-0306	EA	2-1/2' To 3' Ilex - Gulfside Sweet Holly	52.19	
32 93 33 00-0307	EA	3' To 3-1/2' Ilex - Gulfside Sweet Holly	63.40	
32 93 33 00-0308	EA	3 Gallon Ilex cornuta - Dwarf Horned Holly	23.72	
32 93 33 00-0309	EA	1 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	11.96	
32 93 33 00-0310	EA	2 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	23.54	
32 93 33 00-0311	EA	5 Gallon Ilex cornuta, Osmanthus heterophyllus - Dwarf Chinese Holly	34.13	
32 93 33 00-0312	EA	1 Gallon Ilex crenata - Hellers Japanese Holly	11.96	
32 93 33 00-0313	EA	2 Gallon Ilex crenata - Hellers Japanese Holly	26.16	
32 93 33 00-0314	EA	3 Gallon Ilex crenata - Hellers Japanese Holly	34.13	
32 93 33 00-0315	EA	2 Gallon Ilex crenata - Hetzi Japanese Holly	26.16	
32 93 33 00-0316	EA	3 Gallon Ilex crenata - Hetzi Japanese Holly	31.51	
32 93 33 00-0317	EA	2' To 3' Ilex crenata - Hetzi Japanese Holly	63.40	
32 93 33 00-0318	EA	3' To 4' Ilex crenata - Hetzi Japanese Holly	84.57	
32 93 33 00-0319	EA	2' To 3' Ilex opaca - American Holly	84.57	
32 93 33 00-0320	EA	3' To 4' Ilex opaca - American Holly	139.99	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 33 00-0321	EA	4' To 5' Ilex opaca - American Holly	179.60	
32 93 33 00-0322	EA	5' To 6' Ilex opaca - American Holly	216.59	
32 93 33 00-0323	EA	6' To 7' Ilex opaca - American Holly	303.78	
32 93 33 00-0324	EA	7' To 8' Ilex opaca - American Holly	422.73	
32 93 33 00-0325	EA	8' To 10' Ilex opaca - American Holly	607.56	
32 93 33 00-0326	EA	10' To 12' Ilex opaca - American Holly	924.66	
32 93 33 00-0327	EA	12' To 14' Ilex opaca - American Holly	1,122.70	
32 93 33 00-0328	EA	14' To 16' Ilex opaca - American Holly	1,386.87	
32 93 33 00-0329	EA	2' To 3' Ilex verticillata - Winterberry (Female)	84.57	
32 93 33 00-0330	EA	3' To 4' Ilex verticillata - Winterberry (Female)	110.97	
32 93 33 00-0331	EA	2' To 3' Ilex verticillata - Winterberry (Male)	68.63	
32 93 33 00-0332	EA	3' To 4' Ilex verticillata - Winterberry (Male)	95.16	
32 93 33 00-0333	EA	4' To 5' Ilex verticillata - Winterberry (Male)	110.97	
32 93 33 00-0334	EA	1 Gallon Ilex vomitoria - Yaupon Holly	11.21	
32 93 33 00-0335	EA	3 Gallon Ilex vomitoria - Yaupon Holly	22.54	
32 93 33 00-0336	EA	10 Gallon Ilex vomitoria - Yaupon Holly	79.21	
32 93 33 00-0337	EA	18" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	35.94	
32 93 33 00-0338	EA	24" Balled and Burlapped, Ilex glabra compacta & cvs - Compact Inkberry Holly	40.58	
32 93 33 00-0339	EA	3 Gallon Ilex meserveae & cvs - Blue Holly	46.38	
32 93 33 00-0340	EA	18" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	42.90	
32 93 33 00-0341	EA	24" Balled and Burlapped, Ilex meserveae & cvs - Blue Holly	52.17	
32 93 33 00-0342	EA	5 Gallon Ilex verticillata & cvs - Common Winterberry	38.26	
32 93 33 00-0343	EA	24" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	38.26	
32 93 33 00-0344	EA	30" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	40.58	
32 93 33 00-0345	EA	36" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	48.69	
32 93 33 00-0346	EA	42" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	54.49	
32 93 33 00-0347	EA	48" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	57.97	
32 93 33 00-0348	EA	60" Balled and Burlapped, Ilex verticillata & cvs - Common Winterberry	74.20	
32 93 33 00-0349	EA	4' To 5' Ilex x attenuata "Foster" - Holly	137.38	
32 93 33 00-0350	EA	5' To 6' Ilex x attenuata "Foster" - Holly	182.22	
32 93 33 00-0351	EA	6' To 7' Ilex x attenuata "Foster" - Holly	163.04	
32 93 33 00-0352	EA	7' To 8' Ilex x attenuata "Foster" - Holly	316.98	
32 93 33 00-0353	EA	1 Gallon Jasminum - Jasmine	3.07	
32 93 33 00-0354	EA	3 Gallon Jasminum - Jasmine	12.00	
32 93 33 00-0355	EA	3 Gallon Jasminum - Orange Jasmine	9.33	
32 93 33 00-0356	EA	4' - 5' Jasminum - Orange Jasmine	106.66	
32 93 33 00-0357	EA	6' - 7' Jasminum - Orange Jasmine	213.33	
32 93 33 00-0358	EA	8' - 10' Jasminum - Orange Jasmine	287.99	
32 93 33 00-0359	EA	3 Gallon Juniperus chinensis cvs - Chinese Juniper	40.58	
32 93 33 00-0360	EA	5 Gallon Juniperus chinensis cvs - Chinese Juniper	45.22	
32 93 33 00-0361	EA	18" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	60.29	
32 93 33 00-0362	EA	24" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	78.84	
32 93 33 00-0363	EA	30" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	92.75	
32 93 33 00-0364	EA	36" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	125.21	
32 93 33 00-0365	EA	48" Balled and Burlapped, Juniperus chinensis cvs - Chinese Juniper	171.59	
32 93 33 00-0366	EA	1 Gallon Juniperus horizontalis cvs - Creeping Juniper	19.33	
32 93 33 00-0367	EA	3 Gallon Juniperus horizontalis cvs - Creeping Juniper	40.58	
32 93 33 00-0368	EA	5 Gallon Juniperus horizontalis cvs - Creeping Juniper	45.22	
32 93 33 00-0369	EA	15" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	48.69	
32 93 33 00-0370	EA	18" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	53.33	
32 93 33 00-0371	EA	24" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	64.93	
32 93 33 00-0372	EA	30" Balled and Burlapped, Juniperus horizontalis cvs - Creeping Juniper	78.84	
32 93 33 00-0373	EA	3 Gallon Juniperus procumbens cvs - Japanese Garden Juniper	31.30	
32 93 33 00-0374	EA	18" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	37.10	
32 93 33 00-0375	EA	24" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	51.01	
32 93 33 00-0376	EA	30" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	64.93	
32 93 33 00-0377	EA	36" Balled and Burlapped, Juniperus procumbens cvs - Japanese Garden Juniper	78.84	
32 93 33 00-0378	EA	3 Gallon Juniperus sabina cvs - Savin Juniper	28.98	
32 93 33 00-0379	EA	5 Gallon Juniperus sabina cvs - Savin Juniper	34.78	
32 93 33 00-0380	EA	4 Gallon Juniperus virginiana cvs - Red Cedar Juniper	30.14	
32 93 33 00-0381	EA	36" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	57.97	
32 93 33 00-0382	EA	48" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	90.43	
32 93 33 00-0383	EA	60" Balled and Burlapped, Juniperus virginiana cvs - Red Cedar Juniper	113.62	
32 93 33 00-0384	EA	15" To 18" Kalmia latifolia - Mountain Laurel	47.58	
32 93 33 00-0385	EA	18" To 24" Kalmia latifolia - Mountain Laurel	63.40	
32 93 33 00-0386	EA	2' To 3' Kalmia latifolia - Mountain Laurel	92.42	
32 93 33 00-0387	EA	4' To 5' Kalmia latifolia - Mountain Laurel	169.01	
32 93 33 00-0388	EA	5' To 6' Kalmia latifolia - Mountain Laurel	258.94	
32 93 33 00-0389	EA	6' To 8' Kalmia latifolia - Mountain Laurel	396.32	
32 93 33 00-0390	EA	1 Gallon Kerria japonica - Kerria	10.59	
32 93 33 00-0391	EA	5 Gallon Kerria japonica - Kerria	33.13	
32 93 33 00-0392	EA	24" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	33.62	
32 93 33 00-0393	EA	30" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	38.26	
32 93 33 00-0394	EA	36" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	41.74	
32 93 33 00-0395	EA	42" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	48.69	
32 93 33 00-0396	EA	48" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	55.65	
32 93 33 00-0397	EA	60" Balled and Burlapped, Kolkwitzia amabilis & cvs - Beautybush	69.56	
32 93 33 00-0398	EA	1 Gallon Lagerstroemia indica - Crape Myrtle	7.97	
32 93 33 00-0399	EA	5 Gallon Lagerstroemia indica - Crape Myrtle	28.40	
32 93 33 00-0400	EA	3' To 4' Lagerstroemia indica - Crape Myrtle	39.61	
32 93 33 00-0401	EA	4' To 5' Lagerstroemia indica - Crape Myrtle	58.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0402 EA 5' To 6' Lagerstroemia indica - Crape Myrtle .....	92.42	
32 93 33 00-0403 EA 7' To 8' Lagerstroemia indica - Crape Myrtle .....	120.00	
32 93 33 00-0404 EA 9' To 10' Lagerstroemia indica - Crape Myrtle .....	160.00	
32 93 33 00-0405 EA 11' To 12' Lagerstroemia indica - Crape Myrtle .....	333.32	
32 93 33 00-0406 EA 1 Gallon Leucothoe axillaris - Coast Leucothoe .....	11.96	
32 93 33 00-0407 EA 2 Gallon Leucothoe axillaris - Coast Leucothoe .....	26.16	
32 93 33 00-0408 EA 3 Gallon Leucothoe axillaris - Coast Leucothoe .....	31.51	
32 93 33 00-0409 EA 1 Gallon Ligustrum lucidum - Glossy Privet .....	7.35	
32 93 33 00-0410 EA 5 Gallon Ligustrum lucidum - Glossy Privet .....	22.54	
32 93 33 00-0411 EA 15 Gallon Ligustrum lucidum - Glossy Privet .....	105.62	
32 93 33 00-0412 EA 1 Gallon Ligustrum sinense - Variegated Chinese Privet .....	7.35	
32 93 33 00-0413 EA 2 Gallon Ligustrum sinense - Variegated Chinese Privet .....	15.82	
32 93 33 00-0414 EA 3 Gallon Ligustrum sinense - Variegated Chinese Privet .....	20.55	
32 93 33 00-0415 EA 36" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet .....	34.78	
32 93 33 00-0416 EA 48" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet .....	51.01	
32 93 33 00-0417 EA 60" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet .....	64.93	
32 93 33 00-0418 EA 72" Balled and Burlapped, Ligustrum vulgare & cvs - Common Privet .....	74.20	
32 93 33 00-0419 EA 5 Gallon Lindera benzoin - Spicebush .....	38.26	
32 93 33 00-0420 EA 36" Balled and Burlapped, Lindera benzoin - Spicebush .....	32.46	
32 93 33 00-0421 EA 48" Balled and Burlapped, Lindera benzoin - Spicebush .....	39.42	
32 93 33 00-0422 EA 2' To 3' Lonicera fragrantissima - Winter Honeysuckle .....	63.40	
32 93 33 00-0423 EA 3' To 4' Lonicera fragrantissima - Winter Honeysuckle .....	76.60	
32 93 33 00-0424 EA 30" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle .....	34.78	
32 93 33 00-0425 EA 36" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle .....	41.74	
32 93 33 00-0426 EA 42" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle .....	46.38	
32 93 33 00-0427 EA 48" Balled and Burlapped, Lonicera tatarica & cvs - Tatarian Honeysuckle .....	51.01	
32 93 33 00-0428 EA 1 Gallon Myrica cerifera - Wax Myrtle .....	6.67	
32 93 33 00-0429 EA 4 Gallon Myrica cerifera - Wax Myrtle .....	21.33	
32 93 33 00-0430 EA 7 Gallon Myrica cerifera - Wax Myrtle .....	46.67	
32 93 33 00-0431 EA 10 Gallon Myrica cerifera - Wax Myrtle .....	69.33	
32 93 33 00-0432 EA 15 Gallon Myrica cerifera - Wax Myrtle .....	106.66	
32 93 33 00-0433 EA 45 Gallon Myrica cerifera - Wax Myrtle .....	319.99	
32 93 33 00-0434 EA 1' - 2' Myrica cerifera - Wax Myrtle .....	9.33	
32 93 33 00-0435 EA 3' - 4' Myrica cerifera - Wax Myrtle .....	32.00	
32 93 33 00-0436 EA 5' - 6' Myrica cerifera - Wax Myrtle .....	58.67	
32 93 33 00-0437 EA 7' - 8' Myrica cerifera - Wax Myrtle .....	80.00	
32 93 33 00-0438 EA 9' - 10' Myrica cerifera - Wax Myrtle .....	106.66	
32 93 33 00-0439 EA 11' - 12' Myrica cerifera - Wax Myrtle .....	162.66	
32 93 33 00-0440 EA 3 Gallon Myrica pensylvanica - Northern Bayberry .....	34.78	
32 93 33 00-0441 EA 24" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry .....	56.81	
32 93 33 00-0442 EA 30" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry .....	83.48	
32 93 33 00-0443 EA 36" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry .....	99.71	
32 93 33 00-0444 EA 48" Balled and Burlapped, Myrica pensylvanica - Northern Bayberry .....	104.35	
32 93 33 00-0445 EA 1 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum .....	9.27	
32 93 33 00-0446 EA 5 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum .....	22.92	
32 93 33 00-0447 EA 15 Gallon Myoporum laetum 'Carsonii' Multi - Coast Myoporum .....	90.99	
32 93 33 00-0448 EA 1 Gallon Nandina domestica - Heavenly Bamboo .....	11.96	
32 93 33 00-0449 EA 2 Gallon Nandina domestica - Heavenly Bamboo .....	26.16	
32 93 33 00-0450 EA 5 Gallon Nandina domestica - Heavenly Bamboo .....	39.61	
32 93 33 00-0451 EA 15 Gallon Nerium oleander - Oleander .....	99.57	
32 93 33 00-0452 EA 24" Box Nerium oleander - Oleander .....	357.80	
32 93 33 00-0453 EA 1 Gallon Osmanthus fragrans - Fragrant Tea Olive .....	7.35	
32 93 33 00-0454 EA 3 Gallon Osmanthus fragrans - Fragrant Tea Olive .....	19.93	
32 93 33 00-0455 EA 1 Gallon Philadelphus - Evergreen Mockorange .....	10.21	
32 93 33 00-0456 EA 5 Gallon Philadelphus - Evergreen Mockorange .....	33.13	
32 93 33 00-0457 EA 36" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange .....	34.78	
32 93 33 00-0458 EA 42" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange .....	40.58	
32 93 33 00-0459 EA 48" Balled and Burlapped, Philadelphus x virginialis & cvs - Mockorange .....	46.38	
32 93 33 00-0460 EA 1 Gallon Photinia fraseri - Red-Tipped Photinia .....	9.27	
32 93 33 00-0461 EA 5 Gallon Photinia fraseri - Red-Tipped Photinia .....	22.92	
32 93 33 00-0462 EA 15 Gallon Photinia fraseri - Red-Tipped Photinia .....	90.99	
32 93 33 00-0463 EA 1 Gallon Phormium tenax - New Zealand Flax .....	9.77	
32 93 33 00-0464 EA 5 Gallon Phormium tenax - New Zealand Flax .....	23.42	
32 93 33 00-0465 EA 15 Gallon Phormium tenax - New Zealand Flax .....	99.57	
32 93 33 00-0466 EA 24" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark .....	34.78	
32 93 33 00-0467 EA 30" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark .....	40.58	
32 93 33 00-0468 EA 36" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark .....	46.38	
32 93 33 00-0469 EA 42" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark .....	57.97	
32 93 33 00-0470 EA 48" Balled and Burlapped, Physocarpus opulifolius 'Nana' - Dwarf Common Ninebark .....	69.56	
32 93 33 00-0471 EA 12" To 15" Spread Pieris - Mountain Andromeda .....	32.01	
32 93 33 00-0472 EA 15" To 18" Spread Pieris - Mountain Andromeda .....	68.63	
32 93 33 00-0473 EA 12" To 15" Pieris japonica - Japanese Andromeda .....	41.60	
32 93 33 00-0474 EA 15" To 18" Pieris japonica - Japanese Andromeda .....	47.58	
32 93 33 00-0475 EA 18" To 24" Pieris japonica - Japanese Andromeda .....	59.54	
32 93 33 00-0476 EA 2' To 2-1/2' Pieris japonica - Japanese Andromeda .....	84.57	
32 93 33 00-0477 EA 2-1/2' To 3' Pieris japonica - Japanese Andromeda .....	100.39	
32 93 33 00-0478 EA 24" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine .....	35.69	
32 93 33 00-0479 EA 30" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine .....	45.68	
32 93 33 00-0480 EA 36" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine .....	54.96	
32 93 33 00-0481 EA 48" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine .....	70.67	
32 93 33 00-0482 EA 60" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine .....	84.95	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 33 00-0483	EA	72" Balled and Burlapped, Pinus mugo & cvs - Mugo Pine .....	124.21	
32 93 33 00-0484	EA	30" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine .....	77.09	
32 93 33 00-0485	EA	36" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine .....	92.80	
32 93 33 00-0486	EA	48" Balled and Burlapped, Pinus mugo compacta - Dwarf Mugo Pine .....	123.49	
32 93 33 00-0487	EA	1 Gallon Pittosporum - Pittosporum .....	4.40	
32 93 33 00-0488	EA	3 Gallon Pittosporum - Pittosporum .....	11.33	
32 93 33 00-0489	EA	1 Gallon Pittosporum - Varigated Pittosporum .....	4.40	
32 93 33 00-0490	EA	3 Gallon Pittosporum - Varigated Pittosporum .....	11.33	
32 93 33 00-0491	EA	5 Gallon Pittosporum - Varigated Pittosporum .....	19.87	
32 93 33 00-0492	EA	1 Gallon Pittosporum eugenioides - Lemonwood .....	10.64	
32 93 33 00-0493	EA	5 Gallon Pittosporum eugenioides - Lemonwood .....	25.22	
32 93 33 00-0494	EA	1 Gallon Pittosporum tobira - Japanese Pittosporum .....	9.27	
32 93 33 00-0495	EA	5 Gallon Pittosporum tobira - Japanese Pittosporum .....	22.92	
32 93 33 00-0496	EA	15 Gallon Pittosporum tobira - Japanese Pittosporum .....	90.99	
32 93 33 00-0497	EA	2 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil .....	19.71	
32 93 33 00-0498	EA	5 Gallon Potentilla fruticosa & cvs - Bush Cinquefoil .....	27.83	
32 93 33 00-0499	EA	18" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil .....	20.87	
32 93 33 00-0500	EA	24" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil .....	23.19	
32 93 33 00-0501	EA	30" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil .....	33.62	
32 93 33 00-0502	EA	36" Balled and Burlapped, Potentilla fruticosa & cvs - Bush Cinquefoil .....	38.84	
32 93 33 00-0503	EA	1 Gallon Prunus caroliniana - Carolina Cherry Laurel .....	4.91	
32 93 33 00-0504	EA	5 Gallon Prunus caroliniana - Carolina Cherry Laurel .....	12.27	
32 93 33 00-0505	EA	15 Gallon Prunus caroliniana - Carolina Cherry Laurel .....	73.16	
32 93 33 00-0506	EA	15" To 18" Prunus laurocerasus - Cherry Laurel .....	18.71	
32 93 33 00-0507	EA	18" To 24" Prunus laurocerasus - Cherry Laurel .....	23.16	
32 93 33 00-0508	EA	24" To 30" Prunus laurocerasus - Cherry Laurel .....	30.14	
32 93 33 00-0509	EA	15" To 18" Prunus triloba - Double White Flowering Almond .....	16.72	
32 93 33 00-0510	EA	18" To 24" Prunus triloba - Double White Flowering Almond .....	21.40	
32 93 33 00-0511	EA	3' To 4' Prunus triloba - Double White Flowering Almond .....	34.12	
32 93 33 00-0512	EA	4' To 6' Prunus triloba - Double White Flowering Almond .....	68.33	
32 93 33 00-0513	EA	5 Gallon Prunus triloba - Pink Flowering Almond .....	20.55	
32 93 33 00-0514	EA	18" To 24" Prunus triloba - Pink Flowering Almond .....	23.08	
32 93 33 00-0515	EA	2' To 3' Prunus triloba - Pink Flowering Almond .....	26.84	
32 93 33 00-0516	EA	2' To 3' Prunus virginiana - Brilliant Chokeberry .....	18.25	
32 93 33 00-0517	EA	3' To 4' Prunus virginiana - Brilliant Chokeberry .....	22.39	
32 93 33 00-0518	EA	4' To 5' Prunus virginiana - Brilliant Chokeberry .....	26.84	
32 93 33 00-0519	EA	5' To 6' Prunus virginiana - Brilliant Chokeberry .....	30.75	
32 93 33 00-0520	EA	1 Gallon Punica granatum - Dwarf Pomegranate .....	7.85	
32 93 33 00-0521	EA	3 Gallon Punica granatum - Dwarf Pomegranate .....	23.17	
32 93 33 00-0522	EA	7 Gallon Punica granatum - Dwarf Pomegranate .....	47.58	
32 93 33 00-0523	EA	1 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha .....	9.96	
32 93 33 00-0524	EA	5 Gallon Pyracantha koidzumi "Santa Cruz" - Pyracantha .....	33.13	
32 93 33 00-0525	EA	5 Gallon Espalier Pyracantha koidzumi "Santa Cruz" - Pyracantha .....	68.63	
32 93 33 00-0526	EA	1 Gallon Ralphiolepis indica - Indian Hawthorne .....	7.97	
32 93 33 00-0527	EA	2 Gallon Ralphiolepis indica - Indian Hawthorne .....	15.19	
32 93 33 00-0528	EA	5 Gallon Ralphiolepis indica - Indian Hawthorne .....	27.03	
32 93 33 00-0529	EA	1 Gallon Rhamnus californica - Coffeeberry .....	12.12	
32 93 33 00-0530	EA	5 Gallon Rhamnus californica - Coffeeberry .....	34.65	
32 93 33 00-0531	EA	15 Gallon Rhamnus californica - Coffeeberry .....	103.98	
32 93 33 00-0532	EA	4' To 5' Rhamnus frangula "Columnaris" - Tallhedge .....	60.78	
32 93 33 00-0533	EA	5' To 6' Rhamnus frangula "Columnaris" - Tallhedge .....	83.32	
32 93 33 00-0534	EA	6' To 8' Rhamnus frangula "Columnaris" - Tallhedge .....	108.36	
32 93 33 00-0535	EA	10' To 12' Rhamnus frangula "Columnaris" - Tallhedge .....	198.16	
32 93 33 00-0536	EA	1 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn .....	9.87	
32 93 33 00-0537	EA	5 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn .....	23.42	
32 93 33 00-0538	EA	15 Gallon Ralphiolepis indica 'Ballerina' - Ballerina Indian Hawthorn .....	99.57	
32 93 33 00-0539	EA	1 Gallon Rhododendron - Azalea Evergreen Hybrids .....	12.95	
32 93 33 00-0540	EA	2 Gallon Rhododendron - Azalea Evergreen Hybrids .....	26.16	
32 93 33 00-0541	EA	3 Gallon Rhododendron - Azalea Evergreen Hybrids .....	34.13	
32 93 33 00-0542	EA	5 Gallon Rhododendron - Azalea Evergreen Hybrids .....	39.61	
32 93 33 00-0543	EA	15" To 18" Rhododendron - Azalea Evergreen Hybrids .....	46.33	
32 93 33 00-0544	EA	18" To 24" Rhododendron - Azalea Evergreen Hybrids .....	58.17	
32 93 33 00-0545	EA	2' To 2-1/2' Rhododendron - Azalea Evergreen Hybrids .....	84.57	
32 93 33 00-0546	EA	2-1/2' To 3' Rhododendron - Azalea Evergreen Hybrids .....	118.82	
32 93 33 00-0547	EA	1 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids .....	14.57	
32 93 33 00-0548	EA	2 Gallon Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids .....	26.16	
32 93 33 00-0549	EA	15' To 18' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids .....	44.96	
32 93 33 00-0550	EA	18" To 24" Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids .....	58.17	
32 93 33 00-0551	EA	2' To 3' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids .....	84.57	
32 93 33 00-0552	EA	3' To 4' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids .....	124.18	
32 93 33 00-0553	EA	4' To 5' Rhododendron - Azalea Exbury, Knapp Hill And Llam Hybrids .....	166.40	
32 93 33 00-0554	EA	5 Gallon Rhododendron - Boxleaf Azara .....	33.13	
32 93 33 00-0555	EA	15 Gallon Rhododendron - Boxleaf Azara .....	118.82	
32 93 33 00-0556	EA	15" To 18" Rhododendron - Carolina Rhododendron .....	37.49	
32 93 33 00-0557	EA	18" To 24" Rhododendron - Carolina Rhododendron .....	66.01	
32 93 33 00-0558	EA	24" To 30" Rhododendron - Carolina Rhododendron .....	97.77	
32 93 33 00-0559	EA	2' To 3' Rhododendron - Five-leafed Azalea .....	44.46	
32 93 33 00-0560	EA	3' To 4' Rhododendron - Five-leafed Azalea .....	58.17	
32 93 33 00-0561	EA	4' To 5' Rhododendron - Five-leafed Azalea .....	76.60	
32 93 33 00-0562	EA	15" To 18" Rhododendron - Ghent Azalea .....	44.46	
32 93 33 00-0563	EA	18" To 24" Rhododendron - Ghent Azalea .....	55.42	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0564 EA 2' To 3' Rhododendron - Ghent Azalea.....	89.80	
32 93 33 00-0565 EA 3' To 4' Rhododendron - Ghent Azalea.....	124.18	
32 93 33 00-0566 EA 4' To 5' Rhododendron - Ghent Azalea.....	166.40	
32 93 33 00-0567 EA 5' To 6' Rhododendron - Ghent Azalea.....	221.95	
32 93 33 00-0568 EA 1 Gallon Rhododendron - Hybrid Rhododendron.....	14.57	
32 93 33 00-0569 EA 2 Gallon Rhododendron - Hybrid Rhododendron.....	31.51	
32 93 33 00-0570 EA 3 Gallon Rhododendron - Hybrid Rhododendron.....	44.71	
32 93 33 00-0571 EA 5 Gallon Rhododendron - Hybrid Rhododendron.....	49.94	
32 93 33 00-0572 EA 15" To 18" Rhododendron - Hybrid Rhododendron.....	42.22	
32 93 33 00-0573 EA 18" To 24" Rhododendron - Hybrid Rhododendron.....	58.17	
32 93 33 00-0574 EA 24" To 30" Rhododendron - Hybrid Rhododendron.....	79.21	
32 93 33 00-0575 EA 30" To 36" Rhododendron - Hybrid Rhododendron.....	92.42	
32 93 33 00-0576 EA 36" To 42" Rhododendron - Hybrid Rhododendron.....	132.15	
32 93 33 00-0577 EA 42" To 48" Rhododendron - Hybrid Rhododendron.....	163.78	
32 93 33 00-0578 EA 15" To 18" Rhododendron - Pjm Rhododendron.....	47.58	
32 93 33 00-0579 EA 18" To 24" Rhododendron - Pjm Rhododendron.....	58.17	
32 93 33 00-0580 EA 2' To 2-1/2' Rhododendron - Pjm Rhododendron.....	84.57	
32 93 33 00-0581 EA 2-1/2 To 3' Rhododendron - Pjm Rhododendron.....	108.36	
32 93 33 00-0582 EA 3' To 3-1/2' Rhododendron - Pjm Rhododendron.....	132.15	
32 93 33 00-0583 EA 12" To 15" Rhododendron - Torch Azalea.....	36.99	
32 93 33 00-0584 EA 15" To 18" Rhododendron - Torch Azalea.....	44.46	
32 93 33 00-0585 EA 18" To 24" Rhododendron - Torch Azalea.....	55.42	
32 93 33 00-0586 EA 2' To 3' Rhododendron - Torch Azalea.....	92.42	
32 93 33 00-0587 EA 3 Gallon Rhododendron cvs - Lepidote Rhododendron.....	41.74	
32 93 33 00-0588 EA 5 Gallon Rhododendron cvs - Lepidote Rhododendron.....	51.01	
32 93 33 00-0589 EA 18" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	62.61	
32 93 33 00-0590 EA 24" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	78.84	
32 93 33 00-0591 EA 30" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	92.75	
32 93 33 00-0592 EA 36" Balled and Burlapped, Rhododendron cvs - Lepidote Rhododendron.....	111.30	
32 93 33 00-0593 EA 1 Gallon Rhus glabra - Dwarf Smooth Sumac.....	11.96	
32 93 33 00-0594 EA 5 Gallon Rhus glabra - Dwarf Smooth Sumac.....	33.13	
32 93 33 00-0595 EA 2 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	27.83	
32 93 33 00-0596 EA 5 Gallon Rhus aromatica & cvs - Fragrant Sumac.....	38.26	
32 93 33 00-0597 EA 18" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	44.06	
32 93 33 00-0598 EA 24" Balled and Burlapped, Rhus aromatica & cvs - Fragrant Sumac.....	57.97	
32 93 33 00-0599 EA 36" Balled and Burlapped, Rhus glabra - Smooth Sumac.....	34.78	
32 93 33 00-0600 EA 48" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	57.97	
32 93 33 00-0601 EA 72" Balled and Burlapped, Rhus typhina & cvs - Staghorn Sumac.....	92.75	
32 93 33 00-0602 EA 15" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	31.30	
32 93 33 00-0603 EA 18" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	35.94	
32 93 33 00-0604 EA 24" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	52.17	
32 93 33 00-0605 EA 30" Balled and Burlapped, Ribes alpinum & cvs - Alpine Currant.....	69.56	
32 93 33 00-0606 EA 1 Gallon Rosa hybrids & cvs - Shrub Rose.....	19.13	
32 93 33 00-0607 EA 2 Gallon Rosa hybrids & cvs - Shrub Rose.....	23.19	
32 93 33 00-0608 EA 3 Gallon Rosa hybrids & cvs - Shrub Rose.....	28.98	
32 93 33 00-0609 EA 2 Gallon Rosa rugosa & cvs - Rugosa Rose.....	20.87	
32 93 33 00-0610 EA 3 Gallon Rosa rugosa & cvs - Rugosa Rose.....	26.67	
32 93 33 00-0611 EA 5 Gallon Sambucus canadensis - American Elder.....	38.26	
32 93 33 00-0612 EA 1 Gallon Santolina chamaecyparissus - Lavender Cotton.....	9.27	
32 93 33 00-0613 EA 5 Gallon Santolina chamaecyparissus - Lavender Cotton.....	22.92	
32 93 33 00-0614 EA 1 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	9.27	
32 93 33 00-0615 EA 5 Gallon Santolina rosmarinifolia - Green Lavender Cotton.....	22.92	
32 93 33 00-0616 EA 2 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	17.19	
32 93 33 00-0617 EA 3 Gallon Sarcococca hookeriana humilis - Himalayan Sarcococca.....	25.16	
32 93 33 00-0618 EA 1 Gallon Sarcococca humilis - Fragrant Sarcococca.....	9.34	
32 93 33 00-0619 EA 5 Gallon Sarcococca humilis - Fragrant Sarcococca.....	24.41	
32 93 33 00-0620 EA 5 Gallon Senna artemisioides - Feathery Cassia.....	17.29	
32 93 33 00-0621 EA 15 Gallon Senna artemisioides - Feathery Cassia.....	68.79	
32 93 33 00-0622 EA 24" Box Senna artemisioides - Feathery Cassia.....	216.09	
32 93 33 00-0623 EA 1 Gallon Skimmia japonica - Japanese Skimmia.....	11.96	
32 93 33 00-0624 EA 2 Gallon Skimmia japonica - Japanese Skimmia.....	23.79	
32 93 33 00-0625 EA 5 Gallon Skimmia japonica - Japanese Skimmia.....	38.36	
32 93 33 00-0626 EA 1 Gallon Sollya fusiformis - Bluebell Creeper.....	9.27	
32 93 33 00-0627 EA 5 Gallon Sollya fusiformis - Bluebell Creeper.....	22.92	
32 93 33 00-0628 EA 3' To 4' Spiraea - Garland Spiraea.....	55.42	
32 93 33 00-0629 EA 4' To 5' Spiraea - Garland Spiraea.....	84.57	
32 93 33 00-0630 EA 5 Gallon Spiraea - Snowmound Spiraea.....	33.13	
32 93 33 00-0631 EA 18" To 24" Spiraea - Snowmound Spiraea.....	27.15	
32 93 33 00-0632 EA 2' To 3' Spiraea - Snowmound Spiraea.....	38.36	
32 93 33 00-0633 EA 3' To 4' Spiraea - Snowmound Spiraea.....	44.47	
32 93 33 00-0634 EA 4' To 5' Spiraea - Snowmound Spiraea.....	76.60	
32 93 33 00-0635 EA 1 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	11.96	
32 93 33 00-0636 EA 2 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	23.54	
32 93 33 00-0637 EA 3 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	27.25	
32 93 33 00-0638 EA 5 Gallon Spiraea japonica & cvs - Japanese Spiraea.....	29.56	
32 93 33 00-0639 EA 18" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	30.14	
32 93 33 00-0640 EA 24" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	34.78	
32 93 33 00-0641 EA 30" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	39.42	
32 93 33 00-0642 EA 36" Balled and Burlapped, Spiraea japonica & cvs - Japanese Spiraea.....	45.80	
32 93 33 00-0643 EA 2 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	18.55	
32 93 33 00-0644 EA 5 Gallon Spiraea nipponica & cvs - Nippon Spiraea.....	27.83	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0645	EA	18"	Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	25.51	
32 93 33 00-0646	EA	24"	Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	30.14	
32 93 33 00-0647	EA	30"	Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	34.78	
32 93 33 00-0648	EA	36"	Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	39.42	
32 93 33 00-0649	EA	48"	Balled and Burlapped, Spiraea nipponica & cvs - Nippon Spiraea	51.01	
32 93 33 00-0650	EA	1	Gallon Spiraea x bumalda & cvs - Bumalda Spirea	11.96	
32 93 33 00-0651	EA	2	Gallon Spiraea x bumalda & cvs - Bumalda Spirea	21.45	
32 93 33 00-0652	EA	4	Gallon Spiraea x bumalda & cvs - Bumalda Spirea	27.83	
32 93 33 00-0653	EA	18"	Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	24.35	
32 93 33 00-0654	EA	24"	Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	29.56	
32 93 33 00-0655	EA	30"	Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	34.78	
32 93 33 00-0656	EA	36"	Balled and Burlapped, Spiraea x bumalda & cvs - Bumalda Spirea	39.42	
32 93 33 00-0657	EA	5	Gallon Spiraea x vanhouttei & cvs - Vanhoutte Spirea	27.83	
32 93 33 00-0658	EA	18"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	27.83	
32 93 33 00-0659	EA	24"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	32.46	
32 93 33 00-0660	EA	30"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	44.06	
32 93 33 00-0661	EA	36"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	51.01	
32 93 33 00-0662	EA	42"	Balled and Burlapped, Spiraea x vanhouttei & cvs - Vanhoutte Spirea	60.29	
32 93 33 00-0663	EA	5	Gallon Staphylea trifolia - Bladdernut	39.14	
32 93 33 00-0664	EA	2	Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	27.83	
32 93 33 00-0665	EA	5	Gallon Stephanandra incisa & cvs - Cutleaf Stephanadra	30.14	
32 93 33 00-0666	EA	24"	Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanadra	34.78	
32 93 33 00-0667	EA	30"	Balled and Burlapped, Stephanandra incisa & cvs - Cutleaf Stephanadra	41.74	
32 93 33 00-0668	EA	2	Gallon Symphoricarpos albus - Common Snowberry	28.98	
32 93 33 00-0669	EA	5	Gallon Symphoricarpos albus - Common Snowberry	30.72	
32 93 33 00-0670	EA	24"	Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	51.01	
32 93 33 00-0671	EA	30"	Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	63.77	
32 93 33 00-0672	EA	36"	Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	74.20	
32 93 33 00-0673	EA	42"	Balled and Burlapped, Syringa meyeri & cvs - Meyer Lilac	85.79	
32 93 33 00-0674	EA	18"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	51.01	
32 93 33 00-0675	EA	24"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	55.65	
32 93 33 00-0676	EA	30"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	63.77	
32 93 33 00-0677	EA	36"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	74.20	
32 93 33 00-0678	EA	42"	Balled and Burlapped, Syringa patula 'Miss Kim' - Miss Kim Lilac	85.79	
32 93 33 00-0679	EA	60"	Balled and Burlapped, Syringa villosa & cvs - Late Lilac	40.58	
32 93 33 00-0680	EA	72"	Balled and Burlapped, Syringa villosa & cvs - Late Lilac	44.06	
32 93 33 00-0681	EA	36"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	34.78	
32 93 33 00-0682	EA	42"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	39.42	
32 93 33 00-0683	EA	48"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	44.06	
32 93 33 00-0684	EA	60"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	51.01	
32 93 33 00-0685	EA	72"	Balled and Burlapped, Syringa vulgaris & cvs - Common Lilac	62.61	
32 93 33 00-0686	EA	5	Gallon Syringa x chinensis & cvs - Chinese Lilac	28.98	
32 93 33 00-0687	EA	36"	Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac	33.62	
32 93 33 00-0688	EA	48"	Balled and Burlapped, Syringa x hyacinthiflora & cvs - Hybrid Lilac	44.06	
32 93 33 00-0689	EA	48"	Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	184.34	
32 93 33 00-0690	EA	54"	Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	206.37	
32 93 33 00-0691	EA	60"	Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	227.24	
32 93 33 00-0692	EA	72"	Balled and Burlapped, Taxus cuspidata capitata - Capitata Japanese Yew	273.62	
32 93 33 00-0693	EA	18"	Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	48.69	
32 93 33 00-0694	EA	24"	Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	63.77	
32 93 33 00-0695	EA	30"	Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	74.20	
32 93 33 00-0696	EA	36"	Balled and Burlapped, Taxus cuspidata cvs - Dwarf & Spreading Japanese Yew	81.16	
32 93 33 00-0697	EA	15"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	48.69	
32 93 33 00-0698	EA	18"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	63.77	
32 93 33 00-0699	EA	24"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	75.36	
32 93 33 00-0700	EA	30"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	89.27	
32 93 33 00-0701	EA	36"	Balled and Burlapped, Taxus x media & cvs - Anglojap Yew	134.49	
32 93 33 00-0702	EA	36"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	74.20	
32 93 33 00-0703	EA	48"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	99.71	
32 93 33 00-0704	EA	60"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	150.72	
32 93 33 00-0705	EA	72"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	220.28	
32 93 33 00-0706	EA	84"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	252.75	
32 93 33 00-0707	EA	96"	Balled and Burlapped, Thuja occidentalis & cvs - Upright Arborvitae	293.33	
32 93 33 00-0708	EA	15"	Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	32.46	
32 93 33 00-0709	EA	18"	Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	45.22	
32 93 33 00-0710	EA	24"	Balled and Burlapped, Thuja occidentalis cvs - Dwarf Arborvitae	63.77	
32 93 33 00-0711	EA	3'	To 4' Viburnum dilatatum - Linden Viburnum	55.43	
32 93 33 00-0712	EA	4'	To 5' Viburnum dilatatum - Linden Viburnum	84.57	
32 93 33 00-0713	EA	5'	To 6' Viburnum dilatatum - Linden Viburnum	110.98	
32 93 33 00-0714	EA	1	Gallon Viburnum japonicum - Japanese Viburnum	6.73	
32 93 33 00-0715	EA	3	Gallon Viburnum japonicum - Japanese Viburnum	18.43	
32 93 33 00-0716	EA	5	Gallon Viburnum plicatum - Japanese Snowball	33.13	
32 93 33 00-0717	EA	5'	To 6' Viburnum plicatum - Japanese Snowball	124.18	
32 93 33 00-0718	EA	2'	To 3' Viburnum rhytidophyllum - Leatherleaf Viburnum	58.17	
32 93 33 00-0719	EA	3'	To 4' Viburnum rhytidophyllum - Leatherleaf Viburnum	68.63	
32 93 33 00-0720	EA	4'	To 5' Viburnum rhytidophyllum - Leatherleaf Viburnum	96.53	
32 93 33 00-0721	EA	30"	Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	63.77	
32 93 33 00-0722	EA	36"	Balled and Burlapped, Viburnum burkwoodii & cvs - Burkwood Viburnum	76.52	
32 93 33 00-0723	EA	24"	Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	57.97	
32 93 33 00-0724	EA	30"	Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	69.56	
32 93 33 00-0725	EA	36"	Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum	81.16	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 33 00-0726	EA		42" Balled and Burlapped, Viburnum carlesii & cvs - Korean Spice Viburnum .....	92.75	
32 93 33 00-0727	EA		1 Gallon Viburnum davidii - David Viburnum .....	9.27	
32 93 33 00-0728	EA		5 Gallon Viburnum davidii - David Viburnum .....	22.92	
32 93 33 00-0729	EA		36" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum .....	32.46	
32 93 33 00-0730	EA		42" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum .....	34.78	
32 93 33 00-0731	EA		48" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum .....	40.58	
32 93 33 00-0732	EA		60" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum .....	46.38	
32 93 33 00-0733	EA		72" Balled and Burlapped, Viburnum dentatum & cvs - Arrowwood Viburnum .....	51.01	
32 93 33 00-0734	EA		30" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum .....	31.30	
32 93 33 00-0735	EA		36" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum .....	34.78	
32 93 33 00-0736	EA		42" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum .....	44.06	
32 93 33 00-0737	EA		48" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum .....	51.01	
32 93 33 00-0738	EA		60" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum .....	69.56	
32 93 33 00-0739	EA		72" Balled and Burlapped, Viburnum lantana & cvs - Wayfaringtree Viburnum .....	83.48	
32 93 33 00-0740	EA		36" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum .....	34.78	
32 93 33 00-0741	EA		48" Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum .....	46.38	
32 93 33 00-0742	EA		5' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum .....	57.97	
32 93 33 00-0743	EA		6' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum .....	81.16	
32 93 33 00-0744	EA		7' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum .....	115.94	
32 93 33 00-0745	EA		8' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum .....	162.31	
32 93 33 00-0746	EA		9' Balled and Burlapped, Viburnum lentago & cvs - Nannyberry Viburnum .....	208.69	
32 93 33 00-0747	EA		30" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum .....	41.74	
32 93 33 00-0748	EA		36" Balled and Burlapped, Viburnum plicatum tomentosum & cvs - Doublefile Viburnum .....	46.38	
32 93 33 00-0749	EA		36" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum .....	83.48	
32 93 33 00-0750	EA		48" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum .....	127.53	
32 93 33 00-0751	EA		60" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum .....	162.31	
32 93 33 00-0752	EA		72" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum .....	197.10	
32 93 33 00-0753	EA		84" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum .....	243.47	
32 93 33 00-0754	EA		96" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum .....	289.85	
32 93 33 00-0755	EA		108" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum .....	347.82	
32 93 33 00-0756	EA		120" Balled and Burlapped, Viburnum prunifolium & cvs - Blackhaw Viburnum .....	405.79	
32 93 33 00-0757	EA		30" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum .....	35.36	
32 93 33 00-0758	EA		36" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum .....	38.84	
32 93 33 00-0759	EA		48" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum .....	44.06	
32 93 33 00-0760	EA		60" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum .....	51.01	
32 93 33 00-0761	EA		72" Balled and Burlapped, Viburnum sargentii & cvs - Sargent Viburnum .....	58.55	
32 93 33 00-0762	EA		18" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum .....	33.62	
32 93 33 00-0763	EA		24" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum .....	40.58	
32 93 33 00-0764	EA		30" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum .....	48.69	
32 93 33 00-0765	EA		36" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum .....	55.65	
32 93 33 00-0766	EA		42" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum .....	67.24	
32 93 33 00-0767	EA		48" Balled and Burlapped, Viburnum trilobum & cvs - American Cranberry Viburnum .....	74.20	
32 93 33 00-0768	EA		30" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum .....	57.97	
32 93 33 00-0769	EA		36" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum .....	69.56	
32 93 33 00-0770	EA		42" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum .....	81.16	
32 93 33 00-0771	EA		48" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum .....	92.75	
32 93 33 00-0772	EA		60" Balled and Burlapped, Viburnum x carcephalum & cvs - Fragrant Viburnum .....	104.35	
32 93 33 00-0773	EA		30" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum .....	74.20	
32 93 33 00-0774	EA		36" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum .....	83.48	
32 93 33 00-0775	EA		42" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum .....	95.07	
32 93 33 00-0776	EA		48" Balled and Burlapped, Viburnum x juddii & cvs - Judd Viburnum .....	108.98	
32 93 33 00-0777	EA		2' To 3' Viburnum opulus "Roseum" - Fragrant Snowball .....	68.63	
32 93 33 00-0778	EA		3' To 4' Viburnum opulus "Roseum" - Fragrant Snowball .....	84.57	
32 93 33 00-0779	EA		4' To 5' Viburnum opulus "Roseum" - Fragrant Snowball .....	124.18	
32 93 33 00-0780	EA		5 Gallon Weigela florida & cvs - Old Fashioned Weigela .....	38.26	
32 93 33 00-0781	EA		24" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela .....	34.78	
32 93 33 00-0782	EA		30" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela .....	39.42	
32 93 33 00-0783	EA		36" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela .....	44.06	
32 93 33 00-0784	EA		42" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela .....	51.01	
32 93 33 00-0785	EA		48" Balled and Burlapped, Weigela florida & cvs - Old Fashioned Weigela .....	57.97	
32 93 33 00-0786	EA		1 Gallon Xylosma congestum - Shiny Xylosma .....	7.97	
32 93 33 00-0787	EA		5 Gallon Xylosma congestum - Shiny Xylosma .....	22.54	
32 93 33 00-0788	EA		15 Gallon Xylosma congestum - Shiny Xylosma .....	99.14	
32 93 33 00-0789	EA		1 Gallon Yucca aloifolia - Spanish Bayonet .....	6.73	
32 93 33 00-0790	EA		3 Gallon Yucca aloifolia - Spanish Bayonet .....	17.81	
32 93 33 00-0791	EA		1 Gallon Yucca filamentosa - Adams Needle .....	9.34	
32 93 33 00-0792	EA		3 Gallon Yucca filamentosa - Adams Needle .....	18.18	
32 93 33 00-0793	EA		5 Gallon Yucca filamentosa - Adams Needle .....	28.77	
32 93 33 00-0794	EA		5 Gallon Border Forsythia - Goldenbells .....	32.01	
32 93 33 00-0795	EA		2' To 3' Border Forsythia - Goldenbells .....	26.40	
32 93 33 00-0796	EA		3' To 4' Border Forsythia - Goldenbells .....	33.38	
32 93 33 00-0797	EA		4' To 5' Border Forsythia - Goldenbells .....	41.60	
32 93 33 00-0798	EA		5' To 6' Border Forsythia - Goldenbells .....	49.94	
32 93 33 00-0799	EA		6' To 8' Border Forsythia - Goldenbells .....	68.63	
32 93 33 00-0800	EA		3' Juniperus chinensis - Columnar Chinese Juniper .....	68.00	
32 93 33 00-0801	EA		4' Juniperus chinensis - Columnar Chinese Juniper .....	93.33	
32 93 33 00-0802	EA		5' Juniperus chinensis - Columnar Chinese Juniper .....	146.66	
32 93 33 00-0803	EA		6' Juniperus chinensis - Columnar Chinese Juniper .....	170.66	
32 93 33 00-0804	EA		7' Juniperus chinensis - Columnar Chinese Juniper .....	223.99	
32 93 33 00-0805	EA		2 Gallon Chrysobalanus icaco - Cocoplum Red Tip .....	13.33	
32 93 33 00-0806	EA		3 Gallon Chrysobalanus icaco - Cocoplum Red Tip .....	18.67	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 33 00-0807	EA	5 Gallon Chrysobalanus icaco - Cocoplum Red Tip .....	45.20
32 93 33 00-0808	EA	2 Gallon Chrysobalanus icaco - Cocoplum Green Tip .....	13.33
32 93 33 00-0809	EA	3 Gallon Chrysobalanus icaco - Cocoplum Green Tip .....	18.67

**32 93 43 Trees** (32 93)

Note: (cvs = cultivar) materials only. See CSI section 32 93 83 00-0001 for installation and planting of trees.

**32 93 43 00-0001 Deciduous Ornamental Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0002	EA	6' Clump Form Acer ginnala & cvs - Amur Maple .....	319.15
32 93 43 00-0003	EA	7' Clump Form Acer ginnala & cvs - Amur Maple .....	390.07
32 93 43 00-0004	EA	8' Clump Form Acer ginnala & cvs - Amur Maple .....	443.26
32 93 43 00-0005	EA	10' Clump Form Acer ginnala & cvs - Amur Maple .....	514.18
32 93 43 00-0006	EA	12' Clump Form Acer ginnala & cvs - Amur Maple .....	585.10
32 93 43 00-0007	EA	14' Clump Form Acer ginnala & cvs - Amur Maple .....	691.49
32 93 43 00-0008	EA	1-1/2" To 2" Caliper Acer griseum - Paperbark Maple .....	253.22
32 93 43 00-0009	EA	2" To 2-1/2" Caliper Acer griseum - Paperbark Maple .....	1,134.75
32 93 43 00-0010	EA	2-1/2" To 3" Caliper Acer griseum - Paperbark Maple .....	1,418.43
32 93 43 00-0011	EA	5' Clump Form Acer griseum - Paperbark Maple .....	283.69
32 93 43 00-0012	EA	1-1/2" Caliper Aesculus californica - California Buckeye .....	709.22
32 93 43 00-0013	EA	2" Caliper Aesculus californica - California Buckeye .....	921.98
32 93 43 00-0014	EA	2-1/2" Caliper Aesculus californica - California Buckeye .....	1,063.83
32 93 43 00-0015	EA	3" Caliper Aesculus californica - California Buckeye .....	1,205.67
32 93 43 00-0016	EA	3-1/2" Caliper Aesculus californica - California Buckeye .....	1,418.43
32 93 43 00-0017	EA	36" Balled and Burlapped, Amelanchier arborea & cvs - Saskatoon Serviceberry .....	92.75
32 93 43 00-0018	EA	48" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry .....	115.94
32 93 43 00-0019	EA	60" Balled and Burlapped, Amelanchier alnifolia & cvs - Saskatoon Serviceberry .....	143.76
32 93 43 00-0020	EA	60" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry .....	115.94
32 93 43 00-0021	EA	72" Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry .....	139.13
32 93 43 00-0022	EA	7' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry .....	162.31
32 93 43 00-0023	EA	8' Balled and Burlapped, Amelanchier arborea & cvs - Downy Serviceberry .....	185.50
32 93 43 00-0024	EA	5' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry .....	208.69
32 93 43 00-0025	EA	6' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry .....	231.88
32 93 43 00-0026	EA	7' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry .....	266.66
32 93 43 00-0027	EA	8' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry .....	301.44
32 93 43 00-0028	EA	9' Balled and Burlapped, Amelanchier canadensis & cvs - Shadblow Serviceberry .....	347.82
32 93 43 00-0029	EA	1-1/2" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry .....	354.61
32 93 43 00-0030	EA	2" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry .....	496.45
32 93 43 00-0031	EA	2-1/2" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry .....	531.91
32 93 43 00-0032	EA	3" Caliper Amelanchier x grandiflora & cvs - Apple Serviceberry .....	620.57
32 93 43 00-0033	EA	6' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry .....	443.26
32 93 43 00-0034	EA	7' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry .....	531.91
32 93 43 00-0035	EA	8' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry .....	620.57
32 93 43 00-0036	EA	10' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry .....	709.22
32 93 43 00-0037	EA	12' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry .....	797.87
32 93 43 00-0038	EA	14' Clump Form Amelanchier x grandiflora & cvs - Apple Serviceberry .....	886.52
32 93 43 00-0039	EA	7' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry .....	266.66
32 93 43 00-0040	EA	8' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry .....	313.04
32 93 43 00-0041	EA	9' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry .....	359.41
32 93 43 00-0042	EA	10' Balled and Burlapped, Amelanchier laevis & cvs - Allegheny Serviceberry .....	394.19
32 93 43 00-0043	EA	30" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry .....	92.75
32 93 43 00-0044	EA	48" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry .....	197.10
32 93 43 00-0045	EA	60" Balled and Burlapped, Amelanchier stolonifera & cvs - Running Serviceberry .....	255.07
32 93 43 00-0046	EA	2' To 4' Amelemchier - Juneberry .....	28.23
32 93 43 00-0047	EA	4' To 5' Amelemchier - Juneberry .....	29.62
32 93 43 00-0048	EA	5' To 6' Amelemchier - Juneberry .....	35.26
32 93 43 00-0049	EA	6' To 8' Amelemchier - Juneberry .....	42.07
32 93 43 00-0050	EA	3' Clump Form Asimina triloba - Paw-Paw .....	248.23
32 93 43 00-0051	EA	4' Clump Form Asimina triloba - Paw-Paw .....	283.69
32 93 43 00-0052	EA	5' Clump Form Asimina triloba - Paw-Paw .....	390.07
32 93 43 00-0053	EA	1-1/2" Caliper Carpinus caroliniana - American Hornbeam Ironwood .....	531.91
32 93 43 00-0054	EA	2" Caliper Carpinus caroliniana - American Hornbeam Ironwood .....	620.57
32 93 43 00-0055	EA	2-1/2" Caliper Carpinus caroliniana - American Hornbeam Ironwood .....	797.87
32 93 43 00-0056	EA	5' Clump Form Carpinus caroliniana - American Hornbeam Ironwood .....	319.15
32 93 43 00-0057	EA	6' Clump Form Carpinus caroliniana - American Hornbeam Ironwood .....	390.07
32 93 43 00-0058	EA	7' Clump Form Carpinus caroliniana - American Hornbeam Ironwood .....	531.91
32 93 43 00-0059	EA	8' Clump Form Carpinus caroliniana - American Hornbeam Ironwood .....	620.57
32 93 43 00-0060	EA	10' Clump Form Carpinus caroliniana - American Hornbeam Ironwood .....	744.68
32 93 43 00-0061	EA	12' Clump Form Carpinus caroliniana - American Hornbeam Ironwood .....	904.25
32 93 43 00-0062	EA	14' Clump Form Carpinus caroliniana - American Hornbeam Ironwood .....	1,028.37
32 93 43 00-0063	EA	6' Cercis occidentalis - Western Redbud .....	198.60
32 93 43 00-0064	EA	8' Cercis occidentalis - Western Redbud .....	273.23
32 93 43 00-0065	EA	2-1/2" Caliper Cercis occidentalis - Western Redbud .....	562.76
32 93 43 00-0066	EA	3" Caliper Cercis occidentalis - Western Redbud .....	685.10
32 93 43 00-0067	EA	15 Gallon Cercis canadensis & cvs - Eastern Redbud .....	173.34
32 93 43 00-0068	EA	20 Gallon Cercis canadensis & cvs - Eastern Redbud .....	216.68
32 93 43 00-0069	EA	6' Clump Form Cercis canadensis & cvs - Eastern Redbud .....	425.53
32 93 43 00-0070	EA	7' Clump Form Cercis canadensis & cvs - Eastern Redbud .....	585.10
32 93 43 00-0071	EA	8' Clump Form Cercis canadensis & cvs - Eastern Redbud .....	744.68
32 93 43 00-0072	EA	1-1/2" Caliper Cercis canadensis & cvs - Eastern Redbud .....	407.80



**Exterior Improvements 32**

Planting 32 90

Plants 32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0073	EA		2" Caliper Cercis canadensis & cvs - Eastern Redbud .....	478.72	
32 93 43 00-0074	EA		5' To 6' Chaenomeles - Orange Quince .....	112.01	
32 93 43 00-0075	EA		6' To 8' Chaenomeles - Orange Quince .....	140.01	
32 93 43 00-0076	EA		5' Clump Form Chionanthus virginicus - White Fringetree .....	354.61	
32 93 43 00-0077	EA		6' Clump Form Chionanthus virginicus - White Fringetree .....	443.26	
32 93 43 00-0078	EA		7' Clump Form Chionanthus virginicus - White Fringetree .....	567.37	
32 93 43 00-0079	EA		4' To 5' Cornus - Pink Or Red Flowering Dogwood .....	128.00	
32 93 43 00-0080	EA		5' To 6' Cornus - Pink Or Red Flowering Dogwood .....	160.01	
32 93 43 00-0081	EA		6' To 7' Cornus - Pink Or Red Flowering Dogwood .....	224.01	
32 93 43 00-0082	EA		7' To 8' Cornus - Pink Or Red Flowering Dogwood .....	288.01	
32 93 43 00-0083	EA		4' To 5' Cornus - White Flowering Dogwood .....	85.34	
32 93 43 00-0084	EA		5' To 6' Cornus - White Flowering Dogwood .....	128.00	
32 93 43 00-0085	EA		6' To 7' Cornus - White Flowering Dogwood .....	179.21	
32 93 43 00-0086	EA		3' To 4' Cornus kousa - Japanese Dogwood .....	85.34	
32 93 43 00-0087	EA		4' To 5' Cornus kousa - Japanese Dogwood .....	98.14	
32 93 43 00-0088	EA		5' To 6' Cornus kousa - Japanese Dogwood .....	128.00	
32 93 43 00-0089	EA		6' To 8' Cornus kousa - Japanese Dogwood .....	187.74	
32 93 43 00-0090	EA		8' To 10' Cornus kousa - Japanese Dogwood .....	256.01	
32 93 43 00-0091	EA		1-1/2" Caliper Cornus alternifolia & cvs - Pagoda Dogwood .....	407.80	
32 93 43 00-0092	EA		2" Caliper Cornus alternifolia & cvs - Pagoda Dogwood .....	496.45	
32 93 43 00-0093	EA		4' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood .....	195.03	
32 93 43 00-0094	EA		5' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood .....	248.23	
32 93 43 00-0095	EA		6' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood .....	283.69	
32 93 43 00-0096	EA		7' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood .....	319.15	
32 93 43 00-0097	EA		8' Clump Form Cornus alternifolia & cvs - Pagoda Dogwood .....	390.07	
32 93 43 00-0098	EA		4' Clump Form Cornus mas & cvs - Corneliancherry Dogwood .....	195.03	
32 93 43 00-0099	EA		5' Clump Form Cornus mas & cvs - Corneliancherry Dogwood .....	248.23	
32 93 43 00-0100	EA		6' Clump Form Cornus mas & cvs - Corneliancherry Dogwood .....	301.42	
32 93 43 00-0101	EA		7' Clump Form Cornus mas & cvs - Corneliancherry Dogwood .....	354.61	
32 93 43 00-0102	EA		8' Clump Form Cornus mas & cvs - Corneliancherry Dogwood .....	496.45	
32 93 43 00-0103	EA		1-1/2" Caliper Cornus mas & cvs - Corneliancherry Dogwood .....	443.26	
32 93 43 00-0104	EA		2" Caliper Cornus mas & cvs - Corneliancherry Dogwood .....	531.91	
32 93 43 00-0105	EA		2-1/2" Caliper Cornus mas & cvs - Corneliancherry Dogwood .....	620.57	
32 93 43 00-0106	EA		1-1/2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	354.61	
32 93 43 00-0107	EA		2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	443.26	
32 93 43 00-0108	EA		2-1/2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	549.64	
32 93 43 00-0109	EA		3" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	620.57	
32 93 43 00-0110	EA		3-1/2" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	709.22	
32 93 43 00-0111	EA		4" Caliper Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	797.87	
32 93 43 00-0112	EA		6' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	354.61	
32 93 43 00-0113	EA		7' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	425.53	
32 93 43 00-0114	EA		8' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	496.45	
32 93 43 00-0115	EA		10' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	620.57	
32 93 43 00-0116	EA		12' Clump Form Crataegus crusgalli inermis & cvs - Thornless Cockspur Hawthorn .....	797.87	
32 93 43 00-0117	EA		1-1/2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn .....	283.69	
32 93 43 00-0118	EA		2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn .....	319.15	
32 93 43 00-0119	EA		2-1/2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn .....	354.61	
32 93 43 00-0120	EA		3" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn .....	407.80	
32 93 43 00-0121	EA		3-1/2" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn .....	531.91	
32 93 43 00-0122	EA		4" Caliper Crataegus phaenopyrum & cvs - Washington Hawthorn .....	602.83	
32 93 43 00-0123	EA		6' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn .....	248.23	
32 93 43 00-0124	EA		7' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn .....	301.42	
32 93 43 00-0125	EA		8' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn .....	354.61	
32 93 43 00-0126	EA		10' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn .....	443.26	
32 93 43 00-0127	EA		12' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn .....	549.64	
32 93 43 00-0128	EA		14' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn .....	656.03	
32 93 43 00-0129	EA		16' Clump Form Crataegus phaenopyrum & cvs - Washington Hawthorn .....	762.41	
32 93 43 00-0130	EA		1-1/2" Caliper Crataegus viridis - Winter King Hawthorn .....	283.69	
32 93 43 00-0131	EA		2" Caliper Crataegus viridis - Winter King Hawthorn .....	319.15	
32 93 43 00-0132	EA		2-1/2" Caliper Crataegus viridis - Winter King Hawthorn .....	443.26	
32 93 43 00-0133	EA		3" Caliper Crataegus viridis - Winter King Hawthorn .....	585.10	
32 93 43 00-0134	EA		6' Clump Form Crataegus viridis - Winter King Hawthorn .....	265.96	
32 93 43 00-0135	EA		7' Clump Form Crataegus viridis - Winter King Hawthorn .....	354.61	
32 93 43 00-0136	EA		8' Clump Form Crataegus viridis - Winter King Hawthorn .....	443.26	
32 93 43 00-0137	EA		10' Clump Form Crataegus viridis - Winter King Hawthorn .....	531.91	
32 93 43 00-0138	EA		4' Clump Form Hamamelis virginiana - Common Witchhazel .....	177.30	
32 93 43 00-0139	EA		5' Clump Form Hamamelis virginiana - Common Witchhazel .....	230.50	
32 93 43 00-0140	EA		6' Clump Form Hamamelis virginiana - Common Witchhazel .....	283.69	
32 93 43 00-0141	EA		7' Clump Form Hamamelis virginiana - Common Witchhazel .....	390.07	
32 93 43 00-0142	EA		8' Clump Form Hamamelis virginiana - Common Witchhazel .....	531.91	
32 93 43 00-0143	EA		1 Gallon Ilex Cassine - Casine Holly (Dahoon) .....	10.20	
32 93 43 00-0144	EA		5 Gallon Ilex Cassine - Casine Holly (Dahoon) .....	32.62	
32 93 43 00-0145	EA		4' To 5' Ilex Cassine - Casine Holly (Dahoon) .....	56.07	
32 93 43 00-0146	EA		6' To 7' Ilex Cassine - Casine Holly (Dahoon) .....	107.05	
32 93 43 00-0147	EA		8' To 9' Ilex Cassine - Casine Holly (Dahoon) .....	142.73	
32 93 43 00-0148	EA		10' To 12' Ilex Cassine - Casine Holly (Dahoon) .....	183.51	
32 93 43 00-0149	EA		2' To 3' Magnolia Virginiana - Sweetbay Magnolia .....	67.20	
32 93 43 00-0150	EA		3' To 4' Magnolia Virginiana - Sweetbay Magnolia .....	100.80	
32 93 43 00-0151	EA		4' To 5' Magnolia Virginiana - Sweetbay Magnolia .....	126.01	
32 93 43 00-0152	EA		5' To 6' Magnolia Virginiana - Sweetbay Magnolia .....	156.94	
32 93 43 00-0153	EA		4' Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia .....	265.96	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0154	EA	5'	Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	354.61	
32 93 43 00-0155	EA	6'	Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	460.99	
32 93 43 00-0156	EA	7'	Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	514.18	
32 93 43 00-0157	EA	9'	Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	691.49	
32 93 43 00-0158	EA	8'	Clump Form Magnolia acuminata, cvs & hybrids - Cucumbertree Magnolia	620.57	
32 93 43 00-0159	EA	4'	Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	265.96	
32 93 43 00-0160	EA	5'	Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	354.61	
32 93 43 00-0161	EA	6'	Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	460.99	
32 93 43 00-0162	EA	7'	Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	514.18	
32 93 43 00-0163	EA	8'	Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	620.57	
32 93 43 00-0164	EA	9'	Clump Form Magnolia kobus, cvs & hybrids - Kobus Magnolia	691.49	
32 93 43 00-0165	EA	4'	Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	265.96	
32 93 43 00-0166	EA	5'	Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	354.61	
32 93 43 00-0167	EA	6'	Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	460.99	
32 93 43 00-0168	EA	7'	Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	514.18	
32 93 43 00-0169	EA	8'	Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	620.57	
32 93 43 00-0170	EA	9'	Clump Form Magnolia loebneri, cvs & hybrids - Loebner Magnolia	691.49	
32 93 43 00-0171	EA	4'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	265.96	
32 93 43 00-0172	EA	5'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	354.61	
32 93 43 00-0173	EA	6'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	460.99	
32 93 43 00-0174	EA	7'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	514.18	
32 93 43 00-0175	EA	8'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	620.57	
32 93 43 00-0176	EA	9'	Clump Form Magnolia soulangiana & cvs - Saucer Magnolia	691.49	
32 93 43 00-0177	EA	4'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	265.96	
32 93 43 00-0178	EA	5'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	354.61	
32 93 43 00-0179	EA	6'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	460.99	
32 93 43 00-0180	EA	7'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	514.18	
32 93 43 00-0181	EA	8'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	620.57	
32 93 43 00-0182	EA	9'	Clump Form Magnolia stellata, cvs & hybrids - Star Magnolia	691.49	
32 93 43 00-0183	EA	5	Gallon Malus - Crabapple	72.00	
32 93 43 00-0184	EA	15	Gallon Malus - Crabapple	183.61	
32 93 43 00-0185	EA	20	Gallon Malus - Crabapple	216.01	
32 93 43 00-0186	EA	1-1/2"	Caliper Malus cvs - Crabapple Varieties	212.77	
32 93 43 00-0187	EA	2"	Caliper Malus cvs - Crabapple Varieties	283.69	
32 93 43 00-0188	EA	2-1/2"	Caliper Malus cvs - Crabapple Varieties	354.61	
32 93 43 00-0189	EA	3"	Caliper Malus cvs - Crabapple Varieties	425.53	
32 93 43 00-0190	EA	3-1/2"	Caliper Malus cvs - Crabapple Varieties	496.45	
32 93 43 00-0191	EA	4"	Caliper Malus cvs - Crabapple Varieties	567.37	
32 93 43 00-0192	EA	6'	Clump Form Malus cvs - Crabapple Varieties	319.15	
32 93 43 00-0193	EA	7'	Clump Form Malus cvs - Crabapple Varieties	354.61	
32 93 43 00-0194	EA	8'	Clump Form Malus cvs - Crabapple Varieties	443.26	
32 93 43 00-0195	EA	10'	Clump Form Malus cvs - Crabapple Varieties	496.45	
32 93 43 00-0196	EA	12'	Clump Form Malus cvs - Crabapple Varieties	638.30	
32 93 43 00-0197	EA	1-1/2"	Caliper Malus dwarf cvs - Dwarf Crabapple Cultivars	354.61	
32 93 43 00-0198	EA	2"	Caliper Malus dwarf cvs - Dwarf Crabapple Cultivars	443.26	
32 93 43 00-0199	EA	4'	Clump Form Malus dwarf cvs - Dwarf Crabapple	265.96	
32 93 43 00-0200	EA	5'	Clump Form Malus dwarf cvs - Dwarf Crabapple	336.88	
32 93 43 00-0201	EA	6'	Clump Form Malus dwarf cvs - Dwarf Crabapple	407.80	
32 93 43 00-0202	EA	7'	Clump Form Malus dwarf cvs - Dwarf Crabapple	460.99	
32 93 43 00-0203	EA	8'	Clump Form Malus dwarf cvs - Dwarf Crabapple	514.18	
32 93 43 00-0204	EA	9'	Clump Form Malus dwarf cvs - Dwarf Crabapple	567.37	
32 93 43 00-0205	EA	4'	To 5' Oxydendrum arboreum - Sourwood	162.67	
32 93 43 00-0206	EA	5'	To 6' Oxydendrum arboreum - Sourwood	203.34	
32 93 43 00-0207	EA	6'	To 7' Oxydendrum arboreum - Sourwood	244.01	
32 93 43 00-0208	EA	7'	To 8' Oxydendrum arboreum - Sourwood	284.68	
32 93 43 00-0209	EA	1	Gallon Platanus racemosa, Multi Trunk - Western Sycamore	6.05	
32 93 43 00-0210	EA	5	Gallon Platanus racemosa, Multi Trunk - Western Sycamore	25.61	
32 93 43 00-0211	EA	20	Gallon Prunus subhirtella - Flowering Cherry	349.77	
32 93 43 00-0212	EA	1-1/2" To 2"	Caliper Prunus subhirtella - Flowering Cherry	361.56	
32 93 43 00-0213	EA	2" To 2-1/2"	Caliper Prunus subhirtella - Flowering Cherry	451.90	
32 93 43 00-0214	EA	3-1/2" To 4"	Caliper Prunus subhirtella - Flowering Cherry	943.07	
32 93 43 00-0215	EA	3" To 3-1/2"	Caliper Prunus subhirtella - Flowering Cherry	726.85	
32 93 43 00-0216	EA	4" To 5"	Caliper Prunus subhirtella - Flowering Cherry	1,414.61	
32 93 43 00-0217	EA	5	Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	90.34	
32 93 43 00-0218	EA	15	Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	247.46	
32 93 43 00-0219	EA	20	Gallon Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	322.28	
32 93 43 00-0220	EA	5'	To 6' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	102.13	
32 93 43 00-0221	EA	6'	To 8' Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	196.40	
32 93 43 00-0222	EA	1-1/2" To 2"	Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	361.56	
32 93 43 00-0223	EA	2" To 2-1/2"	Caliper Prunus cerasifera x 'Thundercloud' - Thundercloud Purple Leaf Plum	432.25	
32 93 43 00-0224	EA	1-1/2" To 1-3/4"	Caliper Prunus subhirtella - Weeping Cherry	283.00	
32 93 43 00-0225	EA	1-1/4" To 1-1/2"	Caliper Prunus subhirtella - Weeping Cherry	235.67	
32 93 43 00-0226	EA	1-3/4" To 2"	Caliper Prunus subhirtella - Weeping Cherry	345.66	
32 93 43 00-0227	EA	2" To 2-1/2"	Caliper Prunus subhirtella - Weeping Cherry	412.62	
32 93 43 00-0228	EA	2-1/2" To 3"	Caliper Prunus subhirtella - Weeping Cherry	530.45	
32 93 43 00-0229	EA	4'	To 6' Prunus - Pigeon Plum	143.01	
32 93 43 00-0230	EA	8'	To 10' Prunus - Pigeon Plum	486.24	
32 93 43 00-0231	EA	10'	To 12' Prunus - Pigeon Plum	617.81	
32 93 43 00-0232	EA	14'	To 16' Prunus - Pigeon Plum	972.48	
32 93 43 00-0233	EA	6'	To 8' Prunus yedoensis - Yoshino Cherry	204.44	
32 93 43 00-0234	EA	1-1/2" To 2"	Caliper Prunus yedoensis - Yoshino Cherry	314.42	



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
32 93 43 00-0235	EA	2" To 2-1/2" Caliper Prunus yedoensis - Yoshino Cherry .....		384.93	
32 93 43 00-0236	EA	2-1/2" To 3" Caliper Prunus yedoensis - Yoshino Cherry .....		491.18	
32 93 43 00-0237	EA	15 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear .....		273.08	
32 93 43 00-0238	EA	20 Gallon Pyrus Calleryana x 'Aristocrat' - Flowering Pear .....		341.36	
32 93 43 00-0239	EA	1-1/2" To 2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear .....		355.01	
32 93 43 00-0240	EA	2" To 2-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear .....		423.28	
32 93 43 00-0241	EA	2-1/2" To 3" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear .....		573.47	
32 93 43 00-0242	EA	3" To 3-1/2" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear .....		750.98	
32 93 43 00-0243	EA	3-1/2" To 4" Caliper Pyrus Calleryana x 'Aristocrat' - Flowering Pear .....		955.79	
32 93 43 00-0244	EA	15 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear .....		273.08	
32 93 43 00-0245	EA	20 Gallon Pyrus Calleryana x "Bradford" - Flowering Pear .....		341.36	
32 93 43 00-0246	EA	1-1/2" To 2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear .....		232.12	
32 93 43 00-0247	EA	2" To 2-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear .....		355.01	
32 93 43 00-0248	EA	2-1/2" To 3" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear .....		422.91	
32 93 43 00-0249	EA	3" To 3-1/2" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear .....		573.47	
32 93 43 00-0250	EA	3-1/2" To 4" Caliper Pyrus Calleryana x "Bradford" - Flowering Pear .....		750.98	
32 93 43 00-0251	EA	1-1/2" Caliper Pyrus calleryana & cvs - Callery Pear .....		497.43	
32 93 43 00-0252	EA	2" Caliper Pyrus calleryana & cvs - Callery Pear .....		621.79	
32 93 43 00-0253	EA	2-1/2" Caliper Pyrus calleryana & cvs - Callery Pear .....		771.02	
32 93 43 00-0254	EA	3" Caliper Pyrus calleryana & cvs - Callery Pear .....		870.51	
32 93 43 00-0255	EA	3-1/2" Caliper Pyrus calleryana & cvs - Callery Pear .....		970.00	
32 93 43 00-0256	EA	4" Caliper Pyrus calleryana & cvs - Callery Pear .....		1,243.59	
32 93 43 00-0257	EA	1 Gallon Ribes aureum - Golden Currant .....		5.29	
32 93 43 00-0258	EA	5 Gallon Ribes aureum - Golden Currant .....		15.13	
32 93 43 00-0259	EA	1 Gallon Ribes sanguineum - Red Flowering Currant .....		5.29	
32 93 43 00-0260	EA	5 Gallon Ribes sanguineum - Red Flowering Currant .....		15.13	
32 93 43 00-0261	EA	1 Gallon Ribes viburnifolium - Evergreen Currant .....		5.29	
32 93 43 00-0262	EA	5 Gallon Ribes viburnifolium - Evergreen Currant .....		15.13	
32 93 43 00-0263	EA	1-3/4" Caliper Sophora japonica - Japanese Pagoda .....		474.09	
32 93 43 00-0264	EA	2" Caliper Sophora japonica - Japanese Pagoda .....		533.35	
32 93 43 00-0265	EA	2-1/2" Caliper Sophora japonica - Japanese Pagoda .....		622.25	
32 93 43 00-0266	EA	3" Caliper Sophora japonica - Japanese Pagoda .....		910.09	
32 93 43 00-0267	EA	3-1/2" Caliper Sophora japonica - Japanese Pagoda .....		1,375.71	
32 93 43 00-0268	EA	1-1/2" Caliper Sorbus alnifolia - Korean Mountainash .....		354.61	
32 93 43 00-0269	EA	2" Caliper Sorbus alnifolia - Korean Mountainash .....		443.26	
32 93 43 00-0270	EA	2-1/2" Caliper Sorbus alnifolia - Korean Mountainash .....		549.64	
32 93 43 00-0271	EA	3" Caliper Sorbus alnifolia - Korean Mountainash .....		673.76	
32 93 43 00-0272	EA	3-1/2" Caliper Sorbus alnifolia - Korean Mountainash .....		815.60	
32 93 43 00-0273	EA	4" Caliper Sorbus alnifolia - Korean Mountainash .....		975.17	
32 93 43 00-0274	EA	1-1/2" Caliper Syringa reticulata & cvs - Japanese Tree Lilac .....		460.99	
32 93 43 00-0275	EA	2" Caliper Syringa reticulata & cvs - Japanese Tree Lilac .....		496.45	
32 93 43 00-0276	EA	2-1/2" Caliper Syringa reticulata & cvs - Japanese Tree Lilac .....		602.83	
32 93 43 00-0277	EA	4' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac .....		283.69	
32 93 43 00-0278	EA	5' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac .....		336.88	
32 93 43 00-0279	EA	6' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac .....		390.07	
32 93 43 00-0280	EA	7' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac .....		443.26	
32 93 43 00-0281	EA	8' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac .....		514.18	
32 93 43 00-0282	EA	10' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac .....		656.03	
32 93 43 00-0283	EA	12' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac .....		744.68	
32 93 43 00-0284	EA	14' Clump Form Syringa reticulata & cvs - Japanese Tree Lilac .....		851.06	
32 93 43 00-0285	EA	6' Brachychiton acerifolius - Flame Tree .....		717.24	
32 93 43 00-0286	EA	8' Brachychiton acerifolius - Flame Tree .....		956.32	
32 93 43 00-0287	EA	5 Gallon Celtis Sinensis - Chinese Hackberry .....		43.85	
32 93 43 00-0288	EA	15 Gallon Celtis Sinensis - Chinese Hackberry .....		115.61	
32 93 43 00-0289	EA	24" Box Celtis Sinensis - Chinese Hackberry .....		378.73	
32 93 43 00-0290	EA	36" Box Celtis Sinensis - Chinese Hackberry .....		1,106.28	
32 93 43 00-0291	EA	5 Gallon Crataegus phaenopyrum - Washington Hawthorn .....		43.85	
32 93 43 00-0292	EA	15 Gallon Crataegus phaenopyrum - Washington Hawthorn .....		115.61	
32 93 43 00-0293	EA	24" Box Crataegus phaenopyrum - Washington Hawthorn .....		378.73	
32 93 43 00-0294	EA	36" Box Crataegus phaenopyrum - Washington Hawthorn .....		1,106.28	
32 93 43 00-0295	EA	1 Gallon Eucalyptus ficifolia - Red-Flowering Gum .....		12.96	
32 93 43 00-0296	EA	5 Gallon Eucalyptus ficifolia - Red-Flowering Gum .....		35.88	
32 93 43 00-0297	EA	15 Gallon Eucalyptus ficifolia - Red-Flowering Gum .....		157.47	
32 93 43 00-0298	EA	24" Box Eucalyptus ficifolia - Red-Flowering Gum .....		378.73	
32 93 43 00-0299	EA	36" Box Eucalyptus ficifolia - Red-Flowering Gum .....		996.65	
32 93 43 00-0300	EA	15 Gallon Fraxinus velutina 'Raywood' - Fan-Tex Ash .....		97.67	
32 93 43 00-0301	EA	24" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash .....		318.93	
32 93 43 00-0302	EA	36" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash .....		847.15	
32 93 43 00-0303	EA	48" Box Fraxinus velutina 'Raywood' - Fan-Tex Ash .....		1,893.64	
32 93 43 00-0304	EA	5 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust .....		27.91	
32 93 43 00-0305	EA	15 Gallon Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust .....		97.67	
32 93 43 00-0306	EA	24" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust .....		318.93	
32 93 43 00-0307	EA	36" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust .....		847.15	
32 93 43 00-0308	EA	48" Box Gleditsia triacanthos 'Shademaster' - Shademaster Honey Locust .....		1,893.64	
32 93 43 00-0309	EA	5 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum .....		27.91	
32 93 43 00-0310	EA	15 Gallon Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum .....		117.60	
32 93 43 00-0311	EA	24" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum .....		318.93	
32 93 43 00-0312	EA	36" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum .....		896.98	
32 93 43 00-0313	EA	48" Box Liquidambar styraciflua 'Burgundy' - Burgundy Sweetgum .....		2,292.30	
32 93 43 00-0314	EA	5 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum .....		27.91	
32 93 43 00-0315	EA	15 Gallon Liquidambar styraciflua 'Festival' - Festival Sweetgum .....		117.60	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0316	EA	24" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	318.93	
32 93 43 00-0317	EA	36" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	896.98	
32 93 43 00-0318	EA	48" Box Liquidambar styraciflua 'Festival' - Festival Sweetgum.....	2,292.30	
32 93 43 00-0319	EA	5 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	27.91	
32 93 43 00-0320	EA	15 Gallon Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	117.60	
32 93 43 00-0321	EA	24" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	318.93	
32 93 43 00-0322	EA	36" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	896.98	
32 93 43 00-0323	EA	48" Box Liquidambar styraciflua 'Palo Alto' - Palo Alto Sweetgum.....	2,292.30	
32 93 43 00-0324	EA	1 Gallon Pittosporum undulatum - Victorian Box .....	11.15	
32 93 43 00-0325	EA	5 Gallon Pittosporum undulatum - Victorian Box .....	24.01	
32 93 43 00-0326	EA	15 Gallon Pittosporum undulatum - Victorian Box .....	135.48	
32 93 43 00-0327	EA	24" Box Pittosporum undulatum - Victorian Box .....	325.85	
32 93 43 00-0328	EA	36" Box Pittosporum undulatum - Victorian Box .....	943.25	
32 93 43 00-0329	EA	48" Box Pittosporum undulatum - Victorian Box .....	2,143.75	
32 93 43 00-0330	EA	15 Gallon Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	99.57	
32 93 43 00-0331	EA	24" Box Prunus cerasifera 'Thundercloud' - Thundercloud Purple Leaf Plum.....	358.69	

**32 93 43 00-0332****Deciduous Shade Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0333	EA	3-1/2" To 4" Caliper Acer palmatum - Bloodgood Japanese Maple .....	216.65	
32 93 43 00-0334	EA	4" To 4-1/2" Caliper Acer palmatum - Bloodgood Japanese Maple .....	265.57	
32 93 43 00-0335	EA	4-1/2" To 5" Caliper Acer palmatum - Bloodgood Japanese Maple .....	345.95	
32 93 43 00-0336	EA	5" To 6" Caliper Acer palmatum - Bloodgood Japanese Maple .....	448.45	
32 93 43 00-0337	EA	2' To 2-1/2' Acer palmatum - Japanese Maple.....	22.85	
32 93 43 00-0338	EA	4' To 5' Acer palmatum - Japanese Maple.....	47.99	
32 93 43 00-0339	EA	5' To 6' Acer palmatum - Japanese Maple.....	62.84	
32 93 43 00-0340	EA	6' To 7' Acer palmatum - Japanese Maple.....	114.26	
32 93 43 00-0341	EA	7' To 8' Acer palmatum - Japanese Maple.....	159.96	
32 93 43 00-0342	EA	8' To 10' Acer palmatum - Japanese Maple.....	205.66	
32 93 43 00-0343	EA	10' To 12' Acer palmatum - Japanese Maple.....	274.22	
32 93 43 00-0344	EA	2" Caliper Acer platanoides & cvs - Norway Maple.....	116.48	
32 93 43 00-0345	EA	2" Caliper Acer platanoides & cvs - Norway Maple.....	141.80	
32 93 43 00-0346	EA	3" Caliper Acer platanoides & cvs - Norway Maple.....	182.32	
32 93 43 00-0347	EA	3-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	212.70	
32 93 43 00-0348	EA	4" Caliper Acer platanoides & cvs - Norway Maple.....	227.90	
32 93 43 00-0349	EA	4-1/2" Caliper Acer platanoides & cvs - Norway Maple.....	248.15	
32 93 43 00-0350	EA	5" Caliper Acer platanoides & cvs - Norway Maple.....	278.54	
32 93 43 00-0351	EA	2" Caliper Acer rubrum & cvs - Red Maple .....	111.42	
32 93 43 00-0352	EA	2-1/2" Caliper Acer rubrum & cvs - Red Maple .....	141.80	
32 93 43 00-0353	EA	3" Caliper Acer rubrum & cvs - Red Maple .....	182.32	
32 93 43 00-0354	EA	3-1/2" Caliper Acer rubrum & cvs - Red Maple .....	222.83	
32 93 43 00-0355	EA	4" Caliper Acer rubrum & cvs - Red Maple .....	253.22	
32 93 43 00-0356	EA	4-1/2" Caliper Acer rubrum & cvs - Red Maple .....	293.73	
32 93 43 00-0357	EA	5" Caliper Acer rubrum & cvs - Red Maple .....	329.18	
32 93 43 00-0358	EA	8' Clump Form Acer rubrum & cvs - Red Maple.....	136.74	
32 93 43 00-0359	EA	10' Clump Form Acer rubrum & cvs - Red Maple.....	182.32	
32 93 43 00-0360	EA	12' Clump Form Acer rubrum & cvs - Red Maple.....	212.70	
32 93 43 00-0361	EA	14' Clump Form Acer rubrum & cvs - Red Maple.....	243.09	
32 93 43 00-0362	EA	16' Clump Form Acer rubrum & cvs - Red Maple.....	273.47	
32 93 43 00-0363	EA	18' Clump Form Acer rubrum & cvs - Red Maple.....	303.86	
32 93 43 00-0364	EA	2" Caliper Acer saccharinum & cvs - Silver Maple.....	91.16	
32 93 43 00-0365	EA	2-1/2" Caliper Acer saccharinum & cvs - Silver Maple.....	121.54	
32 93 43 00-0366	EA	3" Caliper Acer saccharinum & cvs - Silver Maple.....	151.93	
32 93 43 00-0367	EA	3-1/2" Caliper Acer saccharinum & cvs - Silver Maple.....	182.32	
32 93 43 00-0368	EA	4" Caliper Acer saccharinum & cvs - Silver Maple.....	212.70	
32 93 43 00-0369	EA	4-1/2" Caliper Acer saccharinum & cvs - Silver Maple.....	243.09	
32 93 43 00-0370	EA	5" Caliper Acer saccharinum & cvs - Silver Maple.....	273.47	
32 93 43 00-0371	EA	2" Caliper Acer saccharum & cvs - Sugar Maple .....	111.42	
32 93 43 00-0372	EA	2-1/2" Caliper Acer saccharum & cvs - Sugar Maple .....	146.87	
32 93 43 00-0373	EA	3" Caliper Acer saccharum & cvs - Sugar Maple .....	177.25	
32 93 43 00-0374	EA	3-1/2" Caliper Acer saccharum & cvs - Sugar Maple .....	202.57	
32 93 43 00-0375	EA	4" Caliper Acer saccharum & cvs - Sugar Maple .....	238.02	
32 93 43 00-0376	EA	4-1/2" Caliper Acer saccharum & cvs - Sugar Maple .....	273.47	
32 93 43 00-0377	EA	5" Caliper Acer saccharum & cvs - Sugar Maple .....	303.86	
32 93 43 00-0378	EA	10' Clump Form Acer saccharum & cvs - Sugar Maple .....	202.57	
32 93 43 00-0379	EA	12' Clump Form Acer saccharum & cvs - Sugar Maple .....	238.02	
32 93 43 00-0380	EA	14' Clump Form Acer saccharum & cvs - Sugar Maple .....	278.54	
32 93 43 00-0381	EA	16' Clump Form Acer saccharum & cvs - Sugar Maple .....	308.93	
32 93 43 00-0382	EA	18' Clump Form Acer saccharum & cvs - Sugar Maple .....	374.76	
32 93 43 00-0383	EA	20' Clump Form Acer saccharum & cvs - Sugar Maple .....	405.15	
32 93 43 00-0384	EA	2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	126.61	
32 93 43 00-0385	EA	2-1/2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	156.99	
32 93 43 00-0386	EA	3" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	192.45	
32 93 43 00-0387	EA	3-1/2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	222.83	
32 93 43 00-0388	EA	4" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	243.09	
32 93 43 00-0389	EA	4-1/2" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	268.41	
32 93 43 00-0390	EA	5" Caliper Acer x freemanii & cvs - Freemanii Hybrid Maple.....	298.80	
32 93 43 00-0391	EA	10' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	182.32	
32 93 43 00-0392	EA	12' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	241.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0393 EA 14' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	280.56	
32 93 43 00-0394 EA 16' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	308.93	
32 93 43 00-0395 EA 18' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	374.76	
32 93 43 00-0396 EA 20' Clump Form Acer x freemanii & cvs - Freemanii Hybrid Maple.....	405.15	
32 93 43 00-0397 EA 2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	177.25	
32 93 43 00-0398 EA 2-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	197.51	
32 93 43 00-0399 EA 3" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	222.83	
32 93 43 00-0400 EA 3-1/2" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	253.22	
32 93 43 00-0401 EA 4" Caliper Aesculus hippocastanum & cvs - Common Horsechestnut.....	303.86	
32 93 43 00-0402 EA 2" Caliper Aesculus x carnea - Red Horsechestnut.....	177.25	
32 93 43 00-0403 EA 2-1/2" Caliper Aesculus x carnea - Red Horsechestnut.....	197.51	
32 93 43 00-0404 EA 3" Caliper Aesculus x carnea - Red Horsechestnut.....	222.83	
32 93 43 00-0405 EA 3-1/2" Caliper Aesculus x carnea - Red Horsechestnut.....	253.22	
32 93 43 00-0406 EA 4" Caliper Aesculus x carnea - Red Horsechestnut.....	303.86	
32 93 43 00-0407 EA 2" Caliper Alnus glutinosa - Common Alder, Black Alder.....	126.61	
32 93 43 00-0408 EA 2-1/2" Caliper Alnus glutinosa - Common Alder, Black Alder.....	146.87	
32 93 43 00-0409 EA 3" Caliper Alnus glutinosa - Common Alder, Black Alder.....	167.12	
32 93 43 00-0410 EA 3-1/2" Caliper Alnus glutinosa - Common Alder, Black Alder.....	192.45	
32 93 43 00-0411 EA 8" Clump Form Alnus glutinosa - Common Alder, Black Alder.....	131.67	
32 93 43 00-0412 EA 10' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	162.06	
32 93 43 00-0413 EA 12' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	182.32	
32 93 43 00-0414 EA 14' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	202.57	
32 93 43 00-0415 EA 16' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	227.90	
32 93 43 00-0416 EA 18' Clump Form Alnus glutinosa - Common Alder, Black Alder.....	253.22	
32 93 43 00-0417 EA 2" Caliper Betula nigra - River Birch.....	126.61	
32 93 43 00-0418 EA 2-1/2" Caliper Betula nigra - River Birch.....	143.37	
32 93 43 00-0419 EA 3" Caliper Betula nigra - River Birch.....	162.06	
32 93 43 00-0420 EA 3-1/2" Caliper Betula nigra - River Birch.....	202.57	
32 93 43 00-0421 EA 4" Caliper Betula nigra - River Birch.....	227.90	
32 93 43 00-0422 EA 4-1/2" Caliper Betula nigra - River Birch.....	253.22	
32 93 43 00-0423 EA 5" Caliper Betula nigra - River Birch.....	278.54	
32 93 43 00-0424 EA 8' Clump Form Betula nigra - River Birch.....	116.48	
32 93 43 00-0425 EA 10' Clump Form Betula nigra - River Birch.....	131.67	
32 93 43 00-0426 EA 12' Clump Form Betula nigra - River Birch.....	151.93	
32 93 43 00-0427 EA 14' Clump Form Betula nigra - River Birch.....	177.25	
32 93 43 00-0428 EA 16' Clump Form Betula nigra - River Birch.....	202.57	
32 93 43 00-0429 EA 12' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	151.93	
32 93 43 00-0430 EA 14' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	182.32	
32 93 43 00-0431 EA 16' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	212.70	
32 93 43 00-0432 EA 18' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	253.22	
32 93 43 00-0433 EA 20' Clump Form Betula platyphylla japonica & cvs - Asian White Birch.....	263.35	
32 93 43 00-0434 EA 10' - 12' Bursera Simaruba - Gumbo Limbo.....	64.06	
32 93 43 00-0435 EA 12' - 14' Bursera Simaruba - Gumbo Limbo.....	75.71	
32 93 43 00-0436 EA 14' - 16' Bursera Simaruba - Gumbo Limbo.....	104.83	
32 93 43 00-0437 EA 17' - 18' Bursera Simaruba - Gumbo Limbo.....	136.28	
32 93 43 00-0438 EA 19' - 20' Bursera Simaruba - Gumbo Limbo.....	151.42	
32 93 43 00-0439 EA 21' - 22' Bursera Simaruba - Gumbo Limbo.....	179.38	
32 93 43 00-0440 EA 2" Caliper Carpinus betulus & cvs - European Hornbeam.....	202.57	
32 93 43 00-0441 EA 2-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	227.90	
32 93 43 00-0442 EA 3" Caliper Carpinus betulus & cvs - European Hornbeam.....	263.35	
32 93 43 00-0443 EA 3-1/2" Caliper Carpinus betulus & cvs - European Hornbeam.....	319.05	
32 93 43 00-0444 EA 6' Clump Form Carpinus betulus & cvs - European Hornbeam.....	91.16	
32 93 43 00-0445 EA 7' Clump Form Carpinus betulus & cvs - European Hornbeam.....	126.61	
32 93 43 00-0446 EA 8' Clump Form Carpinus betulus & cvs - European Hornbeam.....	156.99	
32 93 43 00-0447 EA 2" Caliper Catalpa speciosa - Western Catalpa.....	111.42	
32 93 43 00-0448 EA 2-1/2" Caliper Catalpa speciosa - Western Catalpa.....	151.93	
32 93 43 00-0449 EA 3" Caliper Catalpa speciosa - Western Catalpa.....	197.51	
32 93 43 00-0450 EA 3-1/2" Caliper Catalpa speciosa - Western Catalpa.....	238.02	
32 93 43 00-0451 EA 4" Caliper Catalpa speciosa - Western Catalpa.....	273.47	
32 93 43 00-0452 EA 2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	141.80	
32 93 43 00-0453 EA 2-1/2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	162.06	
32 93 43 00-0454 EA 3" Caliper Celtis occidentalis & cvs - Common Hackberry.....	197.51	
32 93 43 00-0455 EA 3-1/2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	232.96	
32 93 43 00-0456 EA 4" Caliper Celtis occidentalis & cvs - Common Hackberry.....	268.41	
32 93 43 00-0457 EA 4-1/2" Caliper Celtis occidentalis & cvs - Common Hackberry.....	303.86	
32 93 43 00-0458 EA 3" Caliper Cercidiphyllum japonicum - Katsuratree.....	177.25	
32 93 43 00-0459 EA 3-1/2" Caliper Cercidiphyllum japonicum - Katsuratree.....	202.57	
32 93 43 00-0460 EA 4" Caliper Cercidiphyllum japonicum - Katsuratree.....	238.02	
32 93 43 00-0461 EA 5" Caliper Cercidiphyllum japonicum - Katsuratree.....	283.60	
32 93 43 00-0462 EA 6' Clump Form Cercidiphyllum japonicum - Katsuratree.....	141.80	
32 93 43 00-0463 EA 7' Clump Form Cercidiphyllum japonicum - Katsuratree.....	167.12	
32 93 43 00-0464 EA 8' Clump Form Cercidiphyllum japonicum - Katsuratree.....	202.57	
32 93 43 00-0465 EA 10' Clump Form Cercidiphyllum japonicum - Katsuratree.....	253.22	
32 93 43 00-0466 EA 12' Clump Form Cercidiphyllum japonicum - Katsuratree.....	303.86	
32 93 43 00-0467 EA 2" Caliper Cladrastus lutea - American Yellowwood.....	253.22	
32 93 43 00-0468 EA 2-1/2" Caliper Cladrastus lutea - American Yellowwood.....	303.86	
32 93 43 00-0469 EA 3" Caliper Cladrastus lutea - American Yellowwood.....	354.50	
32 93 43 00-0470 EA 3-1/2" Caliper Cladrastus lutea - American Yellowwood.....	405.15	
32 93 43 00-0471 EA 2" Caliper Corylus colurna californica - Western Turkish Filbert.....	156.99	
32 93 43 00-0472 EA 2-1/2" Caliper Corylus colurna californica - Western Turkish Filbert.....	177.25	
32 93 43 00-0473 EA 3" Caliper Corylus colurna californica - Western Turkish Filbert.....	202.57	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0474	EA		3-1/2" Caliper Corylus columna californica - Western Turkish Filbert.....	232.96	
32 93 43 00-0475	EA		4" Caliper Corylus columna californica - Western Turkish Filbert.....	278.54	
32 93 43 00-0476	EA		4-1/2" Caliper Corylus columna californica - Western Turkish Filbert.....	324.12	
32 93 43 00-0477	EA		5" Caliper Corylus columna californica - Western Turkish Filbert.....	369.70	
32 93 43 00-0478	EA		8' Clump Form Corylus cornuta californica - Western Filbert.....	141.80	
32 93 43 00-0479	EA		10' Clump Form Corylus cornuta californica - Western Filbert.....	172.19	
32 93 43 00-0480	EA		12' Clump Form Corylus cornuta californica - Western Filbert.....	202.57	
32 93 43 00-0481	EA		14' Clump Form Corylus columna californica - Western Turkish Filbert.....	227.90	
32 93 43 00-0482	EA		16' Clump Form Corylus columna californica - Western Turkish Filbert.....	253.22	
32 93 43 00-0483	EA		1-1/2" Caliper Diospyros - Persimmon.....	91.16	
32 93 43 00-0484	EA		2" Caliper Diospyros - Persimmon.....	111.42	
32 93 43 00-0485	EA		2-1/2" Caliper Diospyros - Persimmon.....	141.80	
32 93 43 00-0486	EA		3" Caliper Diospyros - Persimmon.....	177.25	
32 93 43 00-0487	EA		3-1/2" Caliper Diospyros - Persimmon.....	212.70	
32 93 43 00-0488	EA		1-1/2" Caliper Fagus grandifolia - American Beech.....	202.57	
32 93 43 00-0489	EA		2" Caliper Fagus grandifolia - American Beech.....	263.35	
32 93 43 00-0490	EA		2-1/2" Caliper Fagus grandifolia - American Beech.....	334.25	
32 93 43 00-0491	EA		3" Caliper Fagus grandifolia - American Beech.....	405.15	
32 93 43 00-0492	EA		3-1/2" Caliper Fagus grandifolia - American Beech.....	481.11	
32 93 43 00-0493	EA		2" Caliper Fagus sylvatica & cvs - European Beech.....	227.90	
32 93 43 00-0494	EA		2-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	273.47	
32 93 43 00-0495	EA		3" Caliper Fagus sylvatica & cvs - European Beech.....	329.18	
32 93 43 00-0496	EA		3-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	364.63	
32 93 43 00-0497	EA		4" Caliper Fagus sylvatica & cvs - European Beech.....	430.47	
32 93 43 00-0498	EA		4-1/2" Caliper Fagus sylvatica & cvs - European Beech.....	557.08	
32 93 43 00-0499	EA		5" Caliper Fagus sylvatica & cvs - European Beech.....	658.37	
32 93 43 00-0500	EA		2" Caliper Fraxinus americana & cvs - White Ash.....	126.61	
32 93 43 00-0501	EA		2-1/2" Caliper Fraxinus americana & cvs - White Ash.....	151.93	
32 93 43 00-0502	EA		3" Caliper Fraxinus americana & cvs - White Ash.....	192.45	
32 93 43 00-0503	EA		3-1/2" Caliper Fraxinus americana & cvs - White Ash.....	232.96	
32 93 43 00-0504	EA		4" Caliper Fraxinus americana & cvs - White Ash.....	273.47	
32 93 43 00-0505	EA		4-1/2" Caliper Fraxinus americana & cvs - White Ash.....	303.86	
32 93 43 00-0506	EA		5" Caliper Fraxinus americana & cvs - White Ash.....	354.50	
32 93 43 00-0507	EA		2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	111.42	
32 93 43 00-0508	EA		2-1/2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	131.67	
32 93 43 00-0509	EA		3" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	177.25	
32 93 43 00-0510	EA		3-1/2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	212.70	
32 93 43 00-0511	EA		4" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	253.22	
32 93 43 00-0512	EA		4-1/2" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	273.47	
32 93 43 00-0513	EA		5" Caliper Fraxinus pennsylvanica & cvs - Green Ash.....	303.86	
32 93 43 00-0514	EA		1-1/2" Caliper Fraxinus quadrangulata - Blue Ash.....	151.93	
32 93 43 00-0515	EA		2" Caliper Fraxinus quadrangulata - Blue Ash.....	187.38	
32 93 43 00-0516	EA		2-1/2" Caliper Fraxinus quadrangulata - Blue Ash.....	227.90	
32 93 43 00-0517	EA		3" Caliper Fraxinus quadrangulata - Blue Ash.....	278.54	
32 93 43 00-0518	EA		3-1/2" Caliper Fraxinus quadrangulata - Blue Ash.....	329.18	
32 93 43 00-0519	EA		1-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	177.25	
32 93 43 00-0520	EA		2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	197.51	
32 93 43 00-0521	EA		2-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	222.83	
32 93 43 00-0522	EA		3" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	248.15	
32 93 43 00-0523	EA		3-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	278.54	
32 93 43 00-0524	EA		4" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	303.86	
32 93 43 00-0525	EA		4-1/2" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	455.79	
32 93 43 00-0526	EA		5" Caliper Ginkgo biloba & cvs - Ginkgo (Maidenhair Tree).....	506.43	
32 93 43 00-0527	EA		2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	121.54	
32 93 43 00-0528	EA		2-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	151.93	
32 93 43 00-0529	EA		3" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	182.32	
32 93 43 00-0530	EA		3-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	212.70	
32 93 43 00-0531	EA		4" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	243.09	
32 93 43 00-0532	EA		4-1/2" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	273.47	
32 93 43 00-0533	EA		5" Caliper Gleditsia triacanthos inermis & cvs - Thornless Common Honeylocust.....	324.12	
32 93 43 00-0534	EA		2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	156.99	
32 93 43 00-0535	EA		2-1/2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	192.45	
32 93 43 00-0536	EA		3" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	227.90	
32 93 43 00-0537	EA		3-1/2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	268.41	
32 93 43 00-0538	EA		4" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	303.86	
32 93 43 00-0539	EA		4-1/2" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	339.31	
32 93 43 00-0540	EA		5" Caliper Gymnocladus dioicus - Kentucky Coffeetree.....	379.83	
32 93 43 00-0541	EA		1-1/2" Caliper Juglans cinerea - Butternut.....	121.54	
32 93 43 00-0542	EA		2" Caliper Juglans cinerea - Butternut.....	141.80	
32 93 43 00-0543	EA		2-1/2" Caliper Juglans cinerea - Butternut.....	177.25	
32 93 43 00-0544	EA		3" Caliper Juglans cinerea - Butternut.....	222.83	
32 93 43 00-0545	EA		3-1/2" Caliper Juglans cinerea - Butternut.....	273.47	
32 93 43 00-0546	EA		1-1/2" Caliper Juglans californica - California Walnut.....	121.54	
32 93 43 00-0547	EA		2" Caliper Juglans californica - California Walnut.....	141.80	
32 93 43 00-0548	EA		2-1/2" Caliper Juglans californica - California Walnut.....	177.25	
32 93 43 00-0549	EA		3" Caliper Juglans californica - California Walnut.....	222.83	
32 93 43 00-0550	EA		3-1/2" Caliper Juglans californica - California Walnut.....	273.47	
32 93 43 00-0551	EA		4" Caliper Juglans californica - California Walnut.....	329.18	
32 93 43 00-0552	EA		4-1/2" Caliper Juglans californica - California Walnut.....	379.83	
32 93 43 00-0553	EA		5" Caliper Juglans californica - California Walnut.....	430.47	
32 93 43 00-0554	EA		5 Gallon Koeleruteria Paniculata - Goldenrain Tree.....	13.71	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0555 EA 15 Gallon Koelreuteria Paniculata - Goldenrain Tree .....	34.28	
32 93 43 00-0556 EA 20 Gallon Koelreuteria Paniculata - Goldenrain Tree .....	68.55	
32 93 43 00-0557 EA 55 Gallon Koelreuteria Paniculata - Goldenrain Tree .....	89.12	
32 93 43 00-0558 EA 1-1/2" To 2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	65.13	
32 93 43 00-0559 EA 2" To 2-1/2" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	78.84	
32 93 43 00-0560 EA 2-1/2" To 3" Caliper Koelreuteria Paniculata - Goldenrain Tree.....	109.69	
32 93 43 00-0561 EA 1-1/2" Caliper Liquidambar styraciflua - American Sweetgum .....	162.06	
32 93 43 00-0562 EA 2" Caliper Liquidambar styraciflua - American Sweetgum .....	202.57	
32 93 43 00-0563 EA 2-1/2" Caliper Liquidambar styraciflua - American Sweetgum .....	253.22	
32 93 43 00-0564 EA 3" Caliper Liquidambar styraciflua - American Sweetgum .....	303.86	
32 93 43 00-0565 EA 3-1/2" Caliper Liquidambar styraciflua - American Sweetgum .....	354.50	
32 93 43 00-0566 EA 1-1/2" Caliper Liriodendron tulipifera - Tulip Tree .....	162.06	
32 93 43 00-0567 EA 2" Caliper Liriodendron tulipifera - Tulip Tree .....	222.83	
32 93 43 00-0568 EA 2-1/2" Caliper Liriodendron tulipifera - Tulip Tree .....	263.35	
32 93 43 00-0569 EA 3" Caliper Liriodendron tulipifera - Tulip Tree .....	303.86	
32 93 43 00-0570 EA 3-1/2" Caliper Liriodendron tulipifera - Tulip Tree .....	344.38	
32 93 43 00-0571 EA 8' Clump Form Liriodendron tulipifera - Tulip Tree.....	121.54	
32 93 43 00-0572 EA 10' Clump Form Liriodendron tulipifera - Tulip Tree.....	217.77	
32 93 43 00-0573 EA 12' Clump Form Liriodendron tulipifera - Tulip Tree.....	263.35	
32 93 43 00-0574 EA 1-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum .....	162.06	
32 93 43 00-0575 EA 2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum .....	202.57	
32 93 43 00-0576 EA 2-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum .....	253.22	
32 93 43 00-0577 EA 3" Caliper Nyssa sylvatica - Black Tupelo Sour Gum .....	303.86	
32 93 43 00-0578 EA 3-1/2" Caliper Nyssa sylvatica - Black Tupelo Sour Gum .....	354.50	
32 93 43 00-0579 EA 4' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	70.90	
32 93 43 00-0580 EA 5' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	81.03	
32 93 43 00-0581 EA 6' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	96.22	
32 93 43 00-0582 EA 7' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	121.54	
32 93 43 00-0583 EA 8' Clump Form Nyssa sylvatica - Black Tupelo Sour Gum.....	151.93	
32 93 43 00-0584 EA 2" Caliper Ostrya virginiana - American Hophornbeam .....	131.67	
32 93 43 00-0585 EA 2-1/2" Caliper Ostrya virginiana - American Hophornbeam .....	167.12	
32 93 43 00-0586 EA 3" Caliper Ostrya virginiana - American Hophornbeam .....	202.57	
32 93 43 00-0587 EA 3-1/2" Caliper Ostrya virginiana - American Hophornbeam .....	238.02	
32 93 43 00-0588 EA 4" Caliper Ostrya virginiana - American Hophornbeam .....	288.67	
32 93 43 00-0589 EA 2" Caliper Phellodendron amurense - Amur Corktree.....	101.29	
32 93 43 00-0590 EA 2-1/2" Caliper Phellodendron amurense - Amur Corktree.....	126.61	
32 93 43 00-0591 EA 3" Caliper Phellodendron amurense - Amur Corktree.....	151.93	
32 93 43 00-0592 EA 3-1/2" Caliper Phellodendron amurense - Amur Corktree.....	177.25	
32 93 43 00-0593 EA 4" Caliper Phellodendron amurense - Amur Corktree.....	202.57	
32 93 43 00-0594 EA 4-1/2" Caliper Phellodendron amurense - Amur Corktree.....	227.90	
32 93 43 00-0595 EA 5" Caliper Phellodendron amurense - Amur Corktree.....	253.22	
32 93 43 00-0596 EA 30" Box Platanus Occidentalis - Buttonwood Sycamore.....	220.02	
32 93 43 00-0597 EA 36" Box Platanus Occidentalis - Buttonwood Sycamore.....	320.03	
32 93 43 00-0598 EA 42" Box Platanus occidentalis - Buttonwood Sycamore.....	476.07	
32 93 43 00-0599 EA 1-1/2" To 2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	73.62	
32 93 43 00-0600 EA 2" To 2-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	88.01	
32 93 43 00-0601 EA 2-1/2" To 3" Caliper Platanus occidentalis - Buttonwood Sycamore.....	120.01	
32 93 43 00-0602 EA 3" To 3-1/2" Caliper Platanus occidentalis - Buttonwood Sycamore.....	145.64	
32 93 43 00-0603 EA 8' To 10' Platanus occidentalis - Green Or Silver Buttonwood.....	60.57	
32 93 43 00-0604 EA 10' To 12' Platanus occidentalis - Green Or Silver Buttonwood.....	75.71	
32 93 43 00-0605 EA 12' To 14' Platanus occidentalis - Green Or Silver Buttonwood.....	133.95	
32 93 43 00-0606 EA 16' To 18' Platanus occidentalis - Green Or Silver Buttonwood.....	192.19	
32 93 43 00-0607 EA 2" Caliper Platanus x acerifolia & cvs - London Planetree.....	121.54	
32 93 43 00-0608 EA 2-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	146.87	
32 93 43 00-0609 EA 3" Caliper Platanus x acerifolia & cvs - London Planetree.....	177.25	
32 93 43 00-0610 EA 3-1/2" Caliper Platanus x acerifolia & cvs - London Planetree.....	212.70	
32 93 43 00-0611 EA 4" Caliper Platanus x acerifolia & cvs - London Planetree.....	253.22	
32 93 43 00-0612 EA 2" Caliper Populus alba & cvs - White Poplar.....	121.54	
32 93 43 00-0613 EA 2-1/2" Caliper Populus alba & cvs - White Poplar.....	141.80	
32 93 43 00-0614 EA 3" Caliper Populus alba & cvs - White Poplar.....	162.06	
32 93 43 00-0615 EA 3-1/2" Caliper Populus alba & cvs - White Poplar.....	192.45	
32 93 43 00-0616 EA 4" Caliper Populus alba & cvs - White Poplar.....	212.70	
32 93 43 00-0617 EA 4-1/2" Caliper Populus alba & cvs - White Poplar.....	243.09	
32 93 43 00-0618 EA 2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	111.42	
32 93 43 00-0619 EA 2-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	146.87	
32 93 43 00-0620 EA 3" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	177.25	
32 93 43 00-0621 EA 3-1/2" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	212.70	
32 93 43 00-0622 EA 4" Caliper Populus deltoides & cvs - Eastern Cottonwood.....	253.22	
32 93 43 00-0623 EA 6' To 8' Quercus acutissima - Sawtooth Oak.....	38.09	
32 93 43 00-0624 EA 8' To 10' Quercus acutissima - Sawtooth Oak.....	57.13	
32 93 43 00-0625 EA 10' To 12' Quercus acutissima - Sawtooth Oak.....	66.65	
32 93 43 00-0626 EA 1-1/2" To 2" Caliper Quercus acutissima - Sawtooth Oak.....	76.17	
32 93 43 00-0627 EA 2" To 2-1/2" Caliper Quercus acutissima - Sawtooth Oak.....	85.69	
32 93 43 00-0628 EA 2" Caliper Quercus alba - White Oak.....	151.93	
32 93 43 00-0629 EA 2-1/2" Caliper Quercus alba - White Oak.....	177.25	
32 93 43 00-0630 EA 3" Caliper Quercus alba - White Oak.....	222.83	
32 93 43 00-0631 EA 3-1/2" Caliper Quercus alba - White Oak.....	278.54	
32 93 43 00-0632 EA 4" Caliper Quercus alba - White Oak.....	329.18	
32 93 43 00-0633 EA 4-1/2" Caliper Quercus alba - White Oak.....	405.15	
32 93 43 00-0634 EA 5" Caliper Quercus alba - White Oak.....	481.11	
32 93 43 00-0635 EA 2" Caliper Quercus bicolor - Swamp White Oak.....	177.25	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-0636	EA	2-1/2"	Caliper Quercus bicolor - Swamp White Oak	202.57	
32 93 43 00-0637	EA	3"	Caliper Quercus bicolor - Swamp White Oak	232.96	
32 93 43 00-0638	EA	3-1/2"	Caliper Quercus bicolor - Swamp White Oak	258.28	
32 93 43 00-0639	EA	4"	Caliper Quercus bicolor - Swamp White Oak	293.73	
32 93 43 00-0640	EA	4-1/2"	Caliper Quercus bicolor - Swamp White Oak	324.12	
32 93 43 00-0641	EA	5"	Caliper Quercus bicolor - Swamp White Oak	364.63	
32 93 43 00-0642	EA	10'	Clump Form Quercus bicolor - Swamp White Oak	253.22	
32 93 43 00-0643	EA	12'	Clump Form Quercus bicolor - Swamp White Oak	303.86	
32 93 43 00-0644	EA	14'	Clump Form Quercus bicolor - Swamp White Oak	354.50	
32 93 43 00-0645	EA	16'	Clump Form Quercus bicolor - Swamp White Oak	405.15	
32 93 43 00-0646	EA	2"	Caliper Quercus coccinea - Scarlet Oak	131.67	
32 93 43 00-0647	EA	2-1/2"	Caliper Quercus coccinea - Scarlet Oak	167.12	
32 93 43 00-0648	EA	3"	Caliper Quercus coccinea - Scarlet Oak	207.64	
32 93 43 00-0649	EA	3-1/2"	Caliper Quercus coccinea - Scarlet Oak	253.22	
32 93 43 00-0650	EA	4"	Caliper Quercus coccinea - Scarlet Oak	303.86	
32 93 43 00-0651	EA	4-1/2"	Caliper Quercus coccinea - Scarlet Oak	359.57	
32 93 43 00-0652	EA	5"	Caliper Quercus coccinea - Scarlet Oak	420.34	
32 93 43 00-0653	EA	1-1/2"	Caliper Quercus imbricaria - Shingle Oak	131.67	
32 93 43 00-0654	EA	2"	Caliper Quercus imbricaria - Shingle Oak	177.25	
32 93 43 00-0655	EA	2-1/2"	Caliper Quercus imbricaria - Shingle Oak	238.02	
32 93 43 00-0656	EA	3"	Caliper Quercus imbricaria - Shingle Oak	354.50	
32 93 43 00-0657	EA	3-1/2"	Caliper Quercus imbricaria - Shingle Oak	481.11	
32 93 43 00-0658	EA	1-1/2"	Caliper Quercus macrocarpa - Bur Oak	131.67	
32 93 43 00-0659	EA	2"	Caliper Quercus macrocarpa - Bur Oak	156.99	
32 93 43 00-0660	EA	2-1/2"	Caliper Quercus macrocarpa - Bur Oak	187.38	
32 93 43 00-0661	EA	3"	Caliper Quercus macrocarpa - Bur Oak	227.90	
32 93 43 00-0662	EA	3-1/2"	Caliper Quercus macrocarpa - Bur Oak	278.54	
32 93 43 00-0663	EA	4"	Caliper Quercus macrocarpa - Bur Oak	329.18	
32 93 43 00-0664	EA	9'	Clump Form Quercus macrocarpa - Bur Oak	303.86	
32 93 43 00-0665	EA	10'	Clump Form Quercus macrocarpa - Bur Oak	354.50	
32 93 43 00-0666	EA	12'	Clump Form Quercus macrocarpa - Bur Oak	405.15	
32 93 43 00-0667	EA	2"	Caliper Quercus palustris - Pin Oak	111.42	
32 93 43 00-0668	EA	2-1/2"	Caliper Quercus palustris - Pin Oak	151.93	
32 93 43 00-0669	EA	3"	Caliper Quercus palustris - Pin Oak	197.51	
32 93 43 00-0670	EA	3-1/2"	Caliper Quercus palustris - Pin Oak	227.90	
32 93 43 00-0671	EA	4"	Caliper Quercus palustris - Pin Oak	263.35	
32 93 43 00-0672	EA	4-1/2"	Caliper Quercus palustris - Pin Oak	298.80	
32 93 43 00-0673	EA	5"	Caliper Quercus palustris - Pin Oak	329.18	
32 93 43 00-0674	EA	2"	Caliper Quercus robur & cvs - English Oak	131.67	
32 93 43 00-0675	EA	2-1/2"	Caliper Quercus robur & cvs - English Oak	162.06	
32 93 43 00-0676	EA	3"	Caliper Quercus robur & cvs - English Oak	192.45	
32 93 43 00-0677	EA	3-1/2"	Caliper Quercus robur & cvs - English Oak	227.90	
32 93 43 00-0678	EA	4"	Caliper Quercus robur & cvs - English Oak	263.35	
32 93 43 00-0679	EA	4-1/2"	Caliper Quercus robur & cvs - English Oak	303.86	
32 93 43 00-0680	EA	5"	Caliper Quercus robur & cvs - English Oak	344.38	
32 93 43 00-0681	EA	2"	Caliper Quercus rubra - Red Oak	151.93	
32 93 43 00-0682	EA	2-1/2"	Caliper Quercus rubra - Red Oak	177.25	
32 93 43 00-0683	EA	3"	Caliper Quercus rubra - Red Oak	212.70	
32 93 43 00-0684	EA	3-1/2"	Caliper Quercus rubra - Red Oak	253.22	
32 93 43 00-0685	EA	4"	Caliper Quercus rubra - Red Oak	303.86	
32 93 43 00-0686	EA	4-1/2"	Caliper Quercus rubra - Red Oak	354.50	
32 93 43 00-0687	EA	5"	Caliper Quercus rubra - Red Oak	405.15	
32 93 43 00-0688	EA	16'	Clump Form Quercus rubra - Red Oak	329.18	
32 93 43 00-0689	EA	18'	Clump Form Quercus rubra - Red Oak	395.02	
32 93 43 00-0690	EA	20'	Clump Form Quercus rubra - Red Oak	440.60	
32 93 43 00-0691	EA	2"	Caliper Quercus shumardii - Shumard Oak	172.19	
32 93 43 00-0692	EA	2-1/2"	Caliper Quercus shumardii - Shumard Oak	217.77	
32 93 43 00-0693	EA	3"	Caliper Quercus shumardii - Shumard Oak	253.22	
32 93 43 00-0694	EA	3-1/2"	Caliper Quercus shumardii - Shumard Oak	303.86	
32 93 43 00-0695	EA	4"	Caliper Quercus shumardii - Shumard Oak	354.50	
32 93 43 00-0696	EA	4-1/2"	Caliper Quercus shumardii - Shumard Oak	405.15	
32 93 43 00-0697	EA	5"	Caliper Quercus shumardii - Shumard Oak	455.79	
32 93 43 00-0698	EA	3" To 3-1/2"	Caliper Quercus virginiana - Live Oak	301.64	
32 93 43 00-0699	EA	3-1/2" To 4"	Caliper Quercus virginiana - Live Oak	406.52	
32 93 43 00-0700	EA	4" To 4-1/2"	Caliper Quercus virginiana - Live Oak	549.79	
32 93 43 00-0701	EA	4-1/2" To 5"	Caliper Quercus virginiana - Live Oak	733.82	
32 93 43 00-0702	EA	5" To 5-1/2"	Caliper Quercus virginiana - Live Oak	885.25	
32 93 43 00-0703	EA	5-1/2" To 6"	Caliper Quercus virginiana - Live Oak	978.43	
32 93 43 00-0704	EA	6" To 6-1/2"	Caliper Quercus virginiana - Live Oak	1,316.22	
32 93 43 00-0705	EA	6-1/2" To 7"	Caliper Quercus virginiana - Live Oak	1,654.02	
32 93 43 00-0706	EA	7" To 7-1/2"	Caliper Quercus virginiana - Live Oak	1,991.81	
32 93 43 00-0707	EA	7-1/2" To 8"	Caliper Quercus virginiana - Live Oak	2,416.96	
32 93 43 00-0708	EA	8" To 8-1/2"	Caliper Quercus virginiana - Live Oak	2,842.11	
32 93 43 00-0709	EA	2"	Caliper Quercus schuettii - Swamp Bur Oak	151.93	
32 93 43 00-0710	EA	2-1/2"	Caliper Quercus schuettii - Swamp Bur Oak	182.32	
32 93 43 00-0711	EA	3"	Caliper Quercus schuettii - Swamp Bur Oak	227.90	
32 93 43 00-0712	EA	3-1/2"	Caliper Quercus schuettii - Swamp Bur Oak	278.54	
32 93 43 00-0713	EA	4"	Caliper Quercus schuettii - Swamp Bur Oak	324.12	
32 93 43 00-0714	EA	4-1/2"	Caliper Quercus schuettii - Swamp Bur Oak	364.63	
32 93 43 00-0715	EA	2"	Caliper Salix alba & cvs - White Willow	81.03	
32 93 43 00-0716	EA	2-1/2"	Caliper Salix alba & cvs - White Willow	96.22	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0717	EA		3" Caliper Salix alba & cvs - White Willow .....	126.61	
32 93 43 00-0718	EA		3-1/2" Caliper Salix alba & cvs - White Willow .....	151.93	
32 93 43 00-0719	EA		4" Caliper Salix alba & cvs - White Willow .....	182.32	
32 93 43 00-0720	EA		4-1/2" Caliper Salix alba & cvs - White Willow .....	212.70	
32 93 43 00-0721	EA		5" Caliper Salix alba & cvs - White Willow .....	243.09	
32 93 43 00-0722	EA		24" Box Salix babylonica - Weeping Willow .....	128.01	
32 93 43 00-0723	EA		36" Box Salix babylonica - Weeping Willow .....	320.03	
32 93 43 00-0724	EA		1-1/2" To 2" Caliper Salix babylonica - Weeping Willow .....	73.62	
32 93 43 00-0725	EA		2" To 2-1/2" Caliper Salix babylonica - Weeping Willow .....	88.01	
32 93 43 00-0726	EA		2-1/2" To 3" Caliper Salix babylonica - Weeping Willow .....	96.01	
32 93 43 00-0727	EA		5' Clump Form Sassafras albidum - Common Sassafras .....	96.22	
32 93 43 00-0728	EA		6' Clump Form Sassafras albidum - Common Sassafras .....	116.48	
32 93 43 00-0729	EA		7' Clump Form Sassafras albidum - Common Sassafras .....	146.87	
32 93 43 00-0730	EA		8' Clump Form Sassafras albidum - Common Sassafras .....	167.12	
32 93 43 00-0731	EA		10' Clump Form Sassafras albidum - Common Sassafras .....	187.38	
32 93 43 00-0732	EA		12' Clump Form Sassafras albidum - Common Sassafras .....	227.90	
32 93 43 00-0733	EA		14' Clump Form Sassafras albidum - Common Sassafras .....	278.54	
32 93 43 00-0734	EA		16' Clump Form Sassafras albidum - Common Sassafras .....	329.18	
32 93 43 00-0735	EA		1-3/4" Caliper Sophora japonica - Chinese Scholar .....	167.73	
32 93 43 00-0736	EA		2" Caliper Sophora japonica - Chinese Scholar .....	186.37	
32 93 43 00-0737	EA		2-1/2" Caliper Sophora japonica - Chinese Scholar .....	250.43	
32 93 43 00-0738	EA		3" Caliper Sophora japonica - Chinese Scholar .....	326.14	
32 93 43 00-0739	EA		3-1/2" Caliper Sophora japonica - Chinese Scholar .....	378.56	
32 93 43 00-0740	EA		10' To 12' Swietenia Mahagoni - Mahogany .....	89.69	
32 93 43 00-0741	EA		12' To 14' Swietenia Mahagoni - Mahogany .....	104.83	
32 93 43 00-0742	EA		14' To 16' Swietenia Mahagoni - Mahogany .....	139.78	
32 93 43 00-0743	EA		16' To 18' Swietenia Mahagoni - Mahogany .....	157.25	
32 93 43 00-0744	EA		2" Caliper Taxodium distichum - Common Bald Cypress .....	126.61	
32 93 43 00-0745	EA		2-1/2" Caliper Taxodium distichum - Common Bald Cypress .....	146.87	
32 93 43 00-0746	EA		3" Caliper Taxodium distichum - Common Bald Cypress .....	177.25	
32 93 43 00-0747	EA		3-1/2" Caliper Taxodium distichum - Common Bald Cypress .....	202.57	
32 93 43 00-0748	EA		4" Caliper Taxodium distichum - Common Bald Cypress .....	222.83	
32 93 43 00-0749	EA		6' Clump Form Taxodium distichum - Common Bald Cypress .....	111.42	
32 93 43 00-0750	EA		7' Clump Form Taxodium distichum - Common Bald Cypress .....	126.61	
32 93 43 00-0751	EA		8' Clump Form Taxodium distichum - Common Bald Cypress .....	182.32	
32 93 43 00-0752	EA		10' Clump Form Taxodium distichum - Common Bald Cypress .....	202.57	
32 93 43 00-0753	EA		12' Clump Form Taxodium distichum - Common Bald Cypress .....	227.90	
32 93 43 00-0754	EA		14' Clump Form Taxodium distichum - Common Bald Cypress .....	263.35	
32 93 43 00-0755	EA		16' Clump Form Taxodium distichum - Common Bald Cypress .....	303.86	
32 93 43 00-0756	EA		2' Thuja occidentalis - American Arborvitae .....	17.36	
32 93 43 00-0757	EA		2-1/2' Thuja occidentalis - American Arborvitae .....	18.75	
32 93 43 00-0758	EA		3' Thuja occidentalis - American Arborvitae .....	26.79	
32 93 43 00-0759	EA		4' Thuja occidentalis - American Arborvitae .....	36.81	
32 93 43 00-0760	EA		5' Thuja occidentalis - American Arborvitae .....	51.25	
32 93 43 00-0761	EA		6' Thuja occidentalis - American Arborvitae .....	71.05	
32 93 43 00-0762	EA		7' Thuja occidentalis - American Arborvitae .....	86.20	
32 93 43 00-0763	EA		8' Thuja occidentalis - American Arborvitae .....	121.14	
32 93 43 00-0764	EA		2" Caliper Tilia americana & cvs - American Linden Basswood .....	126.61	
32 93 43 00-0765	EA		2-1/2" Caliper Tilia americana & cvs - American Linden Basswood .....	146.87	
32 93 43 00-0766	EA		3" Caliper Tilia americana & cvs - American Linden Basswood .....	187.38	
32 93 43 00-0767	EA		3-1/2" Caliper Tilia americana & cvs - American Linden Basswood .....	217.77	
32 93 43 00-0768	EA		4" Caliper Tilia americana & cvs - American Linden Basswood .....	248.15	
32 93 43 00-0769	EA		4-1/2" Caliper Tilia americana & cvs - American Linden Basswood .....	278.54	
32 93 43 00-0770	EA		5" Caliper Tilia americana & cvs - American Linden Basswood .....	303.86	
32 93 43 00-0771	EA		10' Clump Form Tilia americana & cvs - American Linden Basswood .....	162.06	
32 93 43 00-0772	EA		12' Clump Form Tilia americana & cvs - American Linden Basswood .....	177.25	
32 93 43 00-0773	EA		14' Clump Form Tilia americana & cvs - American Linden Basswood .....	202.57	
32 93 43 00-0774	EA		16' Clump Form Tilia americana & cvs - American Linden Basswood .....	232.96	
32 93 43 00-0775	EA		2" Caliper Tilia cordata & cvs - Littleleaf Linden .....	127.37	
32 93 43 00-0776	EA		2-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden .....	153.85	
32 93 43 00-0777	EA		3" Caliper Tilia cordata & cvs - Littleleaf Linden .....	177.25	
32 93 43 00-0778	EA		3-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden .....	217.77	
32 93 43 00-0779	EA		4" Caliper Tilia cordata & cvs - Littleleaf Linden .....	248.15	
32 93 43 00-0780	EA		4-1/2" Caliper Tilia cordata & cvs - Littleleaf Linden .....	278.54	
32 93 43 00-0781	EA		5" Caliper Tilia cordata & cvs - Littleleaf Linden .....	308.93	
32 93 43 00-0782	EA		2" Caliper Tilia tomentosa & cvs - Silver Linden .....	141.80	
32 93 43 00-0783	EA		2-1/2" Caliper Tilia tomentosa & cvs - Silver Linden .....	156.99	
32 93 43 00-0784	EA		3" Caliper Tilia tomentosa & cvs - Silver Linden .....	172.19	
32 93 43 00-0785	EA		3-1/2" Caliper Tilia tomentosa & cvs - Silver Linden .....	192.45	
32 93 43 00-0786	EA		4" Caliper Tilia tomentosa & cvs - Silver Linden .....	222.83	
32 93 43 00-0787	EA		4-1/2" Caliper Tilia tomentosa & cvs - Silver Linden .....	263.35	
32 93 43 00-0788	EA		5" Caliper Tilia tomentosa & cvs - Silver Linden .....	344.38	
32 93 43 00-0789	EA		2" Caliper Tilia x euchlora - Crimean Linden .....	141.80	
32 93 43 00-0790	EA		2-1/2" Caliper Tilia x euchlora - Crimean Linden .....	182.32	
32 93 43 00-0791	EA		3" Caliper Tilia x euchlora - Crimean Linden .....	222.83	
32 93 43 00-0792	EA		3-1/2" Caliper Tilia x euchlora - Crimean Linden .....	253.22	
32 93 43 00-0793	EA		4" Caliper Tilia x euchlora - Crimean Linden .....	283.60	
32 93 43 00-0794	EA		4-1/2" Caliper Tilia x euchlora - Crimean Linden .....	319.05	
32 93 43 00-0795	EA		5" Caliper Tilia x euchlora - Crimean Linden .....	344.38	
32 93 43 00-0796	EA		2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm .....	141.80	
32 93 43 00-0797	EA		2-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm .....	162.06	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 43 00-0798	EA	3" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	177.25
32 93 43 00-0799	EA	3-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	192.45
32 93 43 00-0800	EA	4" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	212.70
32 93 43 00-0801	EA	4-1/2" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	253.22
32 93 43 00-0802	EA	5" Caliper Ulmus x 'Homestead' - Homestead Hybrid Elm	298.80
32 93 43 00-0803	EA	2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	162.06
32 93 43 00-0804	EA	2-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	177.25
32 93 43 00-0805	EA	3" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	192.45
32 93 43 00-0806	EA	3-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	212.70
32 93 43 00-0807	EA	4" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	253.22
32 93 43 00-0808	EA	4-1/2" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	298.80
32 93 43 00-0809	EA	5" Caliper Ulmus x 'Pioneer' - Pioneer Hybrid Elm	344.38
32 93 43 00-0810	EA	2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	162.06
32 93 43 00-0811	EA	2-1/2" Mary-Louise Parker Ulmus x 'Regal' - Regal Hybrid Elm	177.25
32 93 43 00-0812	EA	3" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	192.45
32 93 43 00-0813	EA	3-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	212.70
32 93 43 00-0814	EA	4" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	253.22
32 93 43 00-0815	EA	4-1/2" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	298.80
32 93 43 00-0816	EA	5" Caliper Ulmus x 'Regal' - Regal Hybrid Elm	344.38
32 93 43 00-0817	EA	1-1/2" To 2" Caliper Zelkova serrata - Japanese Keaki Tree	78.38
32 93 43 00-0818	EA	2" To 2-1/2" Caliper Zelkova serrata - Japanese Keaki Tree	96.01
32 93 43 00-0819	EA	2-1/2" To 3" Caliper Zelkova serrata - Japanese Keaki Tree	121.64
32 93 43 00-0820	EA	CALTRAN 204003 PLANT (GROUP C) (10' To 16' B&B)	670.77
32 93 43 00-0821	EA	CALTRAN 204003 PLANT (GROUP C) (16' To 20' B&B)	1,115.09
32 93 43 00-0822	EA	CALTRAN 204003 PLANT (GROUP C) (6' To 8' B&B)	392.38
32 93 43 00-0823	EA	CALTRAN 204003 PLANT (GROUP C) (22' To 26' B&B)	1,927.62

**32 93 43 00-0824****Evergreen Trees** (32 93 43)

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-0825	EA	6' Abies balsamea - Balsam Fir	123.83
32 93 43 00-0826	EA	7' Abies balsamea - Balsam Fir	154.79
32 93 43 00-0827	EA	8' Abies balsamea - Balsam Fir	185.75
32 93 43 00-0828	EA	9' Abies balsamea - Balsam Fir	247.67
32 93 43 00-0829	EA	10' Abies balsamea - Balsam Fir	309.59
32 93 43 00-0830	EA	12' Abies balsamea - Balsam Fir	371.50
32 93 43 00-0831	EA	6' Abies concolor - White Fir	179.56
32 93 43 00-0832	EA	7' Abies concolor - White Fir	204.33
32 93 43 00-0833	EA	8' Abies concolor - White Fir	241.48
32 93 43 00-0834	EA	9' Abies concolor - White Fir	278.63
32 93 43 00-0835	EA	10' Abies concolor - White Fir	328.16
32 93 43 00-0836	EA	12' Abies concolor - White Fir	402.46
32 93 43 00-0837	EA	14' Abies concolor - White Fir	495.34
32 93 43 00-0838	EA	16' Abies concolor - White Fir	557.26
32 93 43 00-0839	EA	6' Abies fraseri - Frasier Fir	123.83
32 93 43 00-0840	EA	7' Abies fraseri - Frasier Fir	154.79
32 93 43 00-0841	EA	8' Abies fraseri - Frasier Fir	185.75
32 93 43 00-0842	EA	9' Abies fraseri - Frasier Fir	247.67
32 93 43 00-0843	EA	10' Abies fraseri - Frasier Fir	309.59
32 93 43 00-0844	EA	12' Abies fraseri - Frasier Fir	371.50
32 93 43 00-0845	EA	2' To 3' Cedrus atlantica - Blue Atlas Cedar	22.30
32 93 43 00-0846	EA	3' To 4' Cedrus atlantica - Blue Atlas Cedar	35.85
32 93 43 00-0847	EA	4' To 5' Cedrus atlantica - Blue Atlas Cedar	53.27
32 93 43 00-0848	EA	5' To 6' Cedrus atlantica - Blue Atlas Cedar	71.66
32 93 43 00-0849	EA	7' To 8' Cedrus atlantica - Blue Atlas Cedar	101.74
32 93 43 00-0850	EA	6' To 8' Cedrus deodara - Indian Cedar	92.06
32 93 43 00-0851	EA	8' To 10' Cedrus deodara - Indian Cedar	106.59
32 93 43 00-0852	EA	10' To 12' Cedrus deodara - Indian Cedar	145.33
32 93 43 00-0853	EA	12' To 14' Cedrus deodara - Indian Cedar	188.91
32 93 43 00-0854	EA	14' To 16' Cedrus deodara - Indian Cedar	242.22
32 93 43 00-0855	EA	15" To 18" Chamaecyparis obtusa - Compact Hinoki Cypress	28.78
32 93 43 00-0856	EA	18" To 24" Chamaecyparis obtusa - Compact Hinoki Cypress	43.17
32 93 43 00-0857	EA	2' To 3' Chamaecyparis obtusa - Compact Hinoki Cypress	67.14
32 93 43 00-0858	EA	3' To 4' Chamaecyparis obtusa - Compact Hinoki Cypress	115.11
32 93 43 00-0859	EA	4' To 5' Chamaecyparis pisifera - Sawara Cypress	34.88
32 93 43 00-0860	EA	5' To 6' Chamaecyparis pisifera - Sawara Cypress	54.29
32 93 43 00-0861	EA	6' To 7' Chamaecyparis pisifera - Sawara Cypress	67.80
32 93 43 00-0862	EA	7' To 8' Chamaecyparis pisifera - Sawara Cypress	96.90
32 93 43 00-0863	EA	1 Gallon Cleyera japonica - Japanese Cleyera	3.92
32 93 43 00-0864	EA	3 Gallon Cleyera japonica - Japanese Cleyera	9.84
32 93 43 00-0865	EA	7 Gallon Cleyera japonica - Japanese Cleyera	28.20
32 93 43 00-0866	EA	5 Gallon Cupressocyparis leylandii - Leyland Cypress	15.83
32 93 43 00-0867	EA	15 Gallon Cupressocyparis leylandii - Leyland Cypress	63.33
32 93 43 00-0868	EA	4' To 5' Cupressocyparis leylandii - Leyland Cypress	27.71
32 93 43 00-0869	EA	5' To 6' Cupressocyparis leylandii - Leyland Cypress	35.62
32 93 43 00-0870	EA	6' To 7' Cupressocyparis leylandii - Leyland Cypress	55.41
32 93 43 00-0871	EA	24" Box Cupressocyparis leylandii - Leyland Cypress	134.57
32 93 43 00-0872	EA	1 Gallon Cupressus macrocarpa - Monterey Cypress	2.89
32 93 43 00-0873	EA	5 Gallon Cupressus macrocarpa - Monterey Cypress	12.99
32 93 43 00-0874	EA	15 Gallon Cupressus macrocarpa - Monterey Cypress	43.30



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-0875	EA		5 Gallon Cupressus sempervirens - Italian Cypress.....	14.90	
32 93 43 00-0876	EA		15 Gallon Cupressus sempervirens - Italian Cypress.....	40.98	
32 93 43 00-0877	EA		1 Gallon Illicium anisatum - Anise Tree.....	4.26	
32 93 43 00-0878	EA		3 Gallon Illicium anisatum - Anise Tree.....	9.84	
32 93 43 00-0879	EA		1 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	4.38	
32 93 43 00-0880	EA		2 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	8.57	
32 93 43 00-0881	EA		3 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	10.62	
32 93 43 00-0882	EA		5 Gallon Juniperus horizontalis "Bar Harbor" - Bar Harbor Juniper.....	12.48	
32 93 43 00-0883	EA		1 Gallon Juniperus - Blue Sargent Juniper.....	4.38	
32 93 43 00-0884	EA		2 Gallon Juniperus - Blue Sargent Juniper.....	8.57	
32 93 43 00-0885	EA		3 Gallon Juniperus - Blue Sargent Juniper.....	10.62	
32 93 43 00-0886	EA		5 Gallon Juniperus - Blue Sargent Juniper.....	12.48	
32 93 43 00-0887	EA		5 Gallon Juniperus - Compact Pfitzer Juniper.....	12.48	
32 93 43 00-0888	EA		15" To 18" Juniperus - Compact Pfitzer Juniper.....	13.50	
32 93 43 00-0889	EA		18" To 24" Juniperus - Compact Pfitzer Juniper.....	16.30	
32 93 43 00-0890	EA		2' To 2 1/2' Juniperus - Compact Pfitzer Juniper.....	24.21	
32 93 43 00-0891	EA		2-1/2' To 3' Juniperus - Compact Pfitzer Juniper.....	28.03	
32 93 43 00-0892	EA		5' To 6' Juniperus - Fairview Juniper.....	41.75	
32 93 43 00-0893	EA		1 Gallon Juniperus - Hollywood Juniper.....	5.59	
32 93 43 00-0894	EA		5 Gallon Juniperus - Hollywood Juniper.....	15.55	
32 93 43 00-0895	EA		15 Gallon Juniperus - Hollywood Juniper.....	65.93	
32 93 43 00-0896	EA		4' To 5' Juniperus - Hollywood Juniper.....	43.58	
32 93 43 00-0897	EA		5' To 6' Juniperus - Hollywood Juniper.....	56.16	
32 93 43 00-0898	EA		1 Gallon Juniperus - Parson's Juniper.....	4.38	
32 93 43 00-0899	EA		2 Gallon Juniperus - Parson's Juniper.....	8.66	
32 93 43 00-0900	EA		3 Gallon Juniperus - Parson's Juniper.....	10.71	
32 93 43 00-0901	EA		5 Gallon Juniperus - Parson's Juniper.....	12.67	
32 93 43 00-0902	EA		5 Gallon Juniperus - Skyrocket Juniper.....	15.65	
32 93 43 00-0903	EA		15 Gallon Juniperus - Skyrocket Juniper.....	66.59	
32 93 43 00-0904	EA		2' To 3' Juniperus - Skyrocket Juniper.....	23.47	
32 93 43 00-0905	EA		3' To 4' Juniperus - Skyrocket Juniper.....	33.25	
32 93 43 00-0906	EA		4' To 5' Juniperus - Skyrocket Juniper.....	44.05	
32 93 43 00-0907	EA		5' To 6' Juniperus - Skyrocket Juniper.....	56.81	
32 93 43 00-0908	EA		6' To 8' Juniperus - Skyrocket Juniper.....	73.38	
32 93 43 00-0909	EA		1 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	4.38	
32 93 43 00-0910	EA		2 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	8.62	
32 93 43 00-0911	EA		3 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	10.57	
32 93 43 00-0912	EA		5 Gallon Juniperus horizontalis "Wiltonii" - Blue Rug Juniper.....	12.53	
32 93 43 00-0913	EA		1 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	4.38	
32 93 43 00-0914	EA		2 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	8.62	
32 93 43 00-0915	EA		3 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	10.57	
32 93 43 00-0916	EA		5 Gallon Juniperus horizontalis "Plumosa" - Compact Andorra Juniper.....	12.53	
32 93 43 00-0917	EA		2' To 3' Juniperus virginiana - Eastern Red Cedar.....	23.47	
32 93 43 00-0918	EA		3' To 4' Juniperus virginiana - Eastern Red Cedar.....	33.25	
32 93 43 00-0919	EA		4' To 5' Juniperus virginiana - Eastern Red Cedar.....	44.05	
32 93 43 00-0920	EA		5' To 6' Juniperus virginiana - Eastern Red Cedar.....	56.81	
32 93 43 00-0921	EA		5' Picea abies & cvs - Norway Spruce.....	136.22	
32 93 43 00-0922	EA		6' Picea abies & cvs - Norway Spruce.....	154.79	
32 93 43 00-0923	EA		7' Picea abies & cvs - Norway Spruce.....	185.75	
32 93 43 00-0924	EA		8' Picea abies & cvs - Norway Spruce.....	216.71	
32 93 43 00-0925	EA		9' Picea abies & cvs - Norway Spruce.....	291.01	
32 93 43 00-0926	EA		10' Picea abies & cvs - Norway Spruce.....	352.93	
32 93 43 00-0927	EA		12' Picea abies & cvs - Norway Spruce.....	433.42	
32 93 43 00-0928	EA		14' Picea abies & cvs - Norway Spruce.....	526.30	
32 93 43 00-0929	EA		6' Picea glauca - White Spruce.....	130.03	
32 93 43 00-0930	EA		7' Picea glauca - White Spruce.....	185.75	
32 93 43 00-0931	EA		8' Picea glauca - White Spruce.....	216.71	
32 93 43 00-0932	EA		9' Picea glauca - White Spruce.....	260.05	
32 93 43 00-0933	EA		10' Picea glauca - White Spruce.....	309.59	
32 93 43 00-0934	EA		12' Picea glauca - White Spruce.....	371.50	
32 93 43 00-0935	EA		4' Picea glauca densata - Black Hills Spruce.....	74.30	
32 93 43 00-0936	EA		5' Picea glauca densata - Black Hills Spruce.....	111.45	
32 93 43 00-0937	EA		6' Picea glauca densata - Black Hills Spruce.....	167.18	
32 93 43 00-0938	EA		7' Picea glauca densata - Black Hills Spruce.....	198.14	
32 93 43 00-0939	EA		8' Picea glauca densata - Black Hills Spruce.....	229.09	
32 93 43 00-0940	EA		9' Picea glauca densata - Black Hills Spruce.....	253.86	
32 93 43 00-0941	EA		10' Picea glauca densata - Black Hills Spruce.....	278.63	
32 93 43 00-0942	EA		6' Picea omorika & cvs - Serbian Spruce.....	167.18	
32 93 43 00-0943	EA		7' Picea omorika & cvs - Serbian Spruce.....	185.75	
32 93 43 00-0944	EA		8' Picea omorika & cvs - Serbian Spruce.....	222.90	
32 93 43 00-0945	EA		9' Picea omorika & cvs - Serbian Spruce.....	260.05	
32 93 43 00-0946	EA		10' Picea omorika & cvs - Serbian Spruce.....	297.20	
32 93 43 00-0947	EA		5' Picea pungens - Colorado Green Spruce.....	136.22	
32 93 43 00-0948	EA		6' Picea pungens - Colorado Green Spruce.....	173.37	
32 93 43 00-0949	EA		7' Picea pungens - Colorado Green Spruce.....	204.33	
32 93 43 00-0950	EA		8' Picea pungens - Colorado Green Spruce.....	235.29	
32 93 43 00-0951	EA		9' Picea pungens - Colorado Green Spruce.....	272.44	
32 93 43 00-0952	EA		10' Picea pungens - Colorado Green Spruce.....	513.91	
32 93 43 00-0953	EA		12' Picea pungens - Colorado Green Spruce.....	371.50	
32 93 43 00-0954	EA		14' Picea pungens - Colorado Green Spruce.....	433.42	
32 93 43 00-0955	EA		16' Picea pungens - Colorado Green Spruce.....	557.26	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

32 93 43 00-0956	EA	5' Picea pungens glauca & cvs - Colorado Blue Spruce	136.22	
32 93 43 00-0957	EA	6' Picea pungens glauca & cvs - Colorado Blue Spruce	185.75	
32 93 43 00-0958	EA	7' Picea pungens glauca & cvs - Colorado Blue Spruce	216.71	
32 93 43 00-0959	EA	8' Picea pungens glauca & cvs - Colorado Blue Spruce	247.67	
32 93 43 00-0960	EA	9' Picea pungens glauca & cvs - Colorado Blue Spruce	278.63	
32 93 43 00-0961	EA	10' Picea pungens glauca & cvs - Colorado Blue Spruce	340.55	
32 93 43 00-0962	EA	12' Picea pungens glauca & cvs - Colorado Blue Spruce	433.42	
32 93 43 00-0963	EA	16' Picea pungens glauca & cvs - Colorado Blue Spruce	650.13	
32 93 43 00-0964	EA	4' Pinus cembra - Swiss Stone Pine	105.26	
32 93 43 00-0965	EA	5' Pinus cembra - Swiss Stone Pine	130.03	
32 93 43 00-0966	EA	6' Pinus cembra - Swiss Stone Pine	160.99	
32 93 43 00-0967	EA	6' Pinus flexilis & cvs - Limber Pine	154.79	
32 93 43 00-0968	EA	7' Pinus flexilis & cvs - Limber Pine	179.56	
32 93 43 00-0969	EA	8' Pinus flexilis & cvs - Limber Pine	222.90	
32 93 43 00-0970	EA	9' Pinus flexilis & cvs - Limber Pine	272.44	
32 93 43 00-0971	EA	10' Pinus flexilis & cvs - Limber Pine	309.59	
32 93 43 00-0972	EA	2 Gallon Pinus mugo - Mugho Pine	12.20	
32 93 43 00-0973	EA	3 Gallon Pinus mugo - Mugho Pine	15.27	
32 93 43 00-0974	EA	5 Gallon Pinus mugo - Mugho Pine	19.37	
32 93 43 00-0975	EA	12" To 15" Spread Pinus mugo - Mugho Pine	14.99	
32 93 43 00-0976	EA	15" To 18" Spread Pinus mugo - Mugho Pine	17.88	
32 93 43 00-0977	EA	18" To 24" Spread Pinus mugo - Mugho Pine	24.21	
32 93 43 00-0978	EA	2' To 2-1/2' Spread Pinus mugo - Mugho Pine	33.90	
32 93 43 00-0979	EA	2-1/2' To 3' Spread Pinus mugo - Mugho Pine	43.58	
32 93 43 00-0980	EA	3' To 3-1/2' Spread Pinus mugo - Mugho Pine	54.29	
32 93 43 00-0981	EA	3-1/2' To 4' Spread Pinus mugo - Mugho Pine	65.93	
32 93 43 00-0982	EA	6' Pinus nigra - Austrian Pine	154.79	
32 93 43 00-0983	EA	7' Pinus nigra - Austrian Pine	185.75	
32 93 43 00-0984	EA	8' Pinus nigra - Austrian Pine	241.48	
32 93 43 00-0985	EA	9' Pinus nigra - Austrian Pine	278.63	
32 93 43 00-0986	EA	10' Pinus nigra - Austrian Pine	328.16	
32 93 43 00-0987	EA	12' Pinus nigra - Austrian Pine	371.50	
32 93 43 00-0988	EA	14' Pinus nigra - Austrian Pine	414.85	
32 93 43 00-0989	EA	16' Pinus nigra - Austrian Pine	470.57	
32 93 43 00-0990	EA	5' Pinus peuce - Macedonian Pine	191.94	
32 93 43 00-0991	EA	6' Pinus peuce - Macedonian Pine	241.48	
32 93 43 00-0992	EA	7' Pinus peuce - Macedonian Pine	278.63	
32 93 43 00-0993	EA	8' Pinus peuce - Macedonian Pine	315.78	
32 93 43 00-0994	EA	9' Pinus peuce - Macedonian Pine	365.31	
32 93 43 00-0995	EA	2' Pinus strobus - Pyramidal White Pine	17.15	
32 93 43 00-0996	EA	3' Pinus strobus - Pyramidal White Pine	22.91	
32 93 43 00-0997	EA	4' Pinus strobus - Pyramidal White Pine	25.28	
32 93 43 00-0998	EA	5' Pinus strobus - Pyramidal White Pine	27.64	
32 93 43 00-0999	EA	6' Pinus strobus - Pyramidal White Pine	34.44	
32 93 43 00-1000	EA	7' Pinus strobus - Pyramidal White Pine	45.82	
32 93 43 00-1001	EA	8' Pinus strobus - Pyramidal White Pine	62.97	
32 93 43 00-1002	EA	10' Pinus strobus - Pyramidal White Pine	125.65	
32 93 43 00-1003	EA	12' Pinus strobus - Pyramidal White Pine	298.60	
32 93 43 00-1004	EA	14' Pinus strobus - Pyramidal White Pine	400.60	
32 93 43 00-1005	EA	16' Pinus strobus - Pyramidal White Pine	481.90	
32 93 43 00-1006	EA	2' Pinus strobus - White Pine	26.35	
32 93 43 00-1007	EA	3' Pinus strobus - White Pine	37.60	
32 93 43 00-1008	EA	4' Pinus strobus - White Pine	59.95	
32 93 43 00-1009	EA	5' Pinus strobus - White Pine	85.45	
32 93 43 00-1010	EA	6' Pinus strobus - White Pine	125.32	
32 93 43 00-1011	EA	7' Pinus strobus - White Pine	149.53	
32 93 43 00-1012	EA	8' Pinus strobus - White Pine	202.22	
32 93 43 00-1013	EA	10' Pinus strobus - White Pine	272.00	
32 93 43 00-1014	EA	12' Pinus strobus - White Pine	360.30	
32 93 43 00-1015	EA	14' Pinus strobus - White Pine	441.47	
32 93 43 00-1016	EA	16' Pinus strobus - White Pine	536.89	
32 93 43 00-1017	EA	3' Pinus sylvestris - Scotch Pine	40.68	
32 93 43 00-1018	EA	4' Pinus sylvestris - Scotch Pine	56.47	
32 93 43 00-1019	EA	5' Pinus sylvestris - Scotch Pine	79.25	
32 93 43 00-1020	EA	6' Pinus sylvestris - Scotch Pine	109.97	
32 93 43 00-1021	EA	7' Pinus sylvestris - Scotch Pine	134.73	
32 93 43 00-1022	EA	8' Pinus sylvestris - Scotch Pine	190.21	
32 93 43 00-1023	EA	9' Pinus sylvestris - Scotch Pine	241.48	
32 93 43 00-1024	EA	10' Pinus sylvestris - Scotch Pine	278.63	
32 93 43 00-1025	EA	12' Pinus sylvestris - Scotch Pine	328.16	
32 93 43 00-1026	EA	14' Pinus sylvestris - Scotch Pine	371.50	
32 93 43 00-1027	EA	16' Pinus sylvestris - Scotch Pine	433.42	
32 93 43 00-1028	EA	5' To 6' Pinus taeda - Loblolly Pine	17.71	
32 93 43 00-1029	EA	1 Gallon Pinus thunbergiana - Japanese Black Pine	4.38	
32 93 43 00-1030	EA	5 Gallon Pinus thunbergiana - Japanese Black Pine	15.55	
32 93 43 00-1031	EA	15 Gallon Pinus thunbergiana - Japanese Black Pine	50.38	
32 93 43 00-1032	EA	2' To 3' Pinus thunbergiana - Japanese Black Pine	21.33	
32 93 43 00-1033	EA	3' To 4' Pinus thunbergiana - Japanese Black Pine	27.10	
32 93 43 00-1034	EA	4' To 5' Pinus thunbergiana - Japanese Black Pine	40.70	
32 93 43 00-1035	EA	5' To 6' Pinus thunbergiana - Japanese Black Pine	79.44	
32 93 43 00-1036	EA	6' To 7' Pinus Thunbergiana - Japanese Black Pine	89.12	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 43 00-1037	EA		7' To 8' Pinus thunbergiana - Japanese Black Pine.....	111.38	
32 93 43 00-1038	EA		1 Gallon Pinus mugo - Mugho Pine.....	5.77	
32 93 43 00-1039	EA		1 Gallon Podocarpus - Chinese Podocarpus.....	2.89	
32 93 43 00-1040	EA		3 Gallon Podocarpus - Chinese Podocarpus.....	6.71	
32 93 43 00-1041	EA		7 Gallon Podocarpus - Chinese Podocarpus.....	19.37	
32 93 43 00-1042	EA		15 Gallon Podocarpus - Chinese Podocarpus.....	31.48	
32 93 43 00-1043	EA		4' To 5' Podocarpus - Chinese Podocarpus.....	48.43	
32 93 43 00-1044	EA		5' Pseudotsuga menziesii - Douglas Fir.....	123.83	
32 93 43 00-1045	EA		6' Pseudotsuga menziesii - Douglas Fir.....	148.60	
32 93 43 00-1046	EA		7' Pseudotsuga menziesii - Douglas Fir.....	185.75	
32 93 43 00-1047	EA		8' Pseudotsuga menziesii - Douglas Fir.....	222.90	
32 93 43 00-1048	EA		9' Pseudotsuga menziesii - Douglas Fir.....	278.63	
32 93 43 00-1049	EA		10' Pseudotsuga menziesii - Douglas Fir.....	328.16	
32 93 43 00-1050	EA		12' Pseudotsuga menziesii - Douglas Fir.....	371.50	
32 93 43 00-1051	EA		5' To 6' Sequoia sempervirens - Dawn Redwood.....	60.53	
32 93 43 00-1052	EA		6' To 8' Sequoia sempervirens - Dawn Redwood.....	81.72	
32 93 43 00-1053	EA		8' To 10' Sequoia sempervirens - Dawn Redwood.....	99.88	
32 93 43 00-1054	EA		5' To 6' Taxodium distichum & cvs - Bald Cypress.....	43.02	
32 93 43 00-1055	EA		6' To 7' Taxodium distichum & cvs - Bald Cypress.....	53.78	
32 93 43 00-1056	EA		7' To 8' Taxodium distichum & cvs - Bald Cypress.....	66.49	
32 93 43 00-1057	EA		8' To 10' Taxodium distichum & cvs - Bald Cypress.....	84.14	
32 93 43 00-1058	EA		6' Tsuga canadensis - Northern Hemlock.....	123.83	
32 93 43 00-1059	EA		7' Tsuga canadensis - Northern Hemlock.....	154.79	
32 93 43 00-1060	EA		8' Tsuga canadensis - Northern Hemlock.....	210.52	
32 93 43 00-1061	EA		9' Tsuga canadensis - Northern Hemlock.....	247.67	
32 93 43 00-1062	EA		10' Tsuga canadensis - Northern Hemlock.....	278.63	
32 93 43 00-1063	EA		12' Tsuga canadensis - Northern Hemlock.....	309.59	
32 93 43 00-1064	EA		3' To 4' Thuja occidentalis 'Wareana' - Siberian Arborvitae.....	11.67	
32 93 43 00-1065	EA		3' To 4' Thuja occidentalis 'Woodwadii' - Woodward Arborvitae.....	21.85	

**32 93 43 00-1066**

**Palm And Subtropical Trees (32 93 43)**

Note: All trees listed by caliper of trunk or height of tree if field grown, dug with spade, balled and burlapped and delivered to site.

32 93 43 00-1067	EA		4' To 5' Acacia baileyana - Bailey Acacia.....	232.96	
32 93 43 00-1068	EA		6' Acacia baileyana - Bailey Acacia.....	279.55	
32 93 43 00-1069	EA		8' Acacia baileyana - Bailey Acacia.....	326.14	
32 93 43 00-1070	EA		10' Acacia baileyana - Bailey Acacia.....	407.68	
32 93 43 00-1071	EA		6' Agonis flexuosa - Peppermint Tree.....	139.78	
32 93 43 00-1072	EA		8' Agonis flexuosa - Peppermint Tree.....	174.72	
32 93 43 00-1073	EA		10' Agonis flexuosa - Peppermint Tree.....	209.66	
32 93 43 00-1074	EA		24" Box Agonis flexuosa - Peppermint Tree.....	174.14	
32 93 43 00-1075	EA		4' To 5' Archontophoenix cunninghamiana - King Palm.....	95.29	
32 93 43 00-1076	EA		6' To 8' Archontophoenix cunninghamiana - King Palm.....	148.22	
32 93 43 00-1077	EA		8' To 10' Archontophoenix cunninghamiana - King Palm.....	190.58	
32 93 43 00-1078	EA		10' To 12' Archontophoenix cunninghamiana - King Palm.....	254.10	
32 93 43 00-1079	EA		4' To 5' Arecastrum romanzoffianum - Queen Palm.....	72.19	
32 93 43 00-1080	EA		6' To 8' Arecastrum romanzoffianum - Queen Palm.....	101.06	
32 93 43 00-1081	EA		8' To 10' Arecastrum romanzoffianum - Queen Palm.....	129.94	
32 93 43 00-1082	EA		10' To 12' Arecastrum romanzoffianum - Queen Palm.....	158.81	
32 93 43 00-1083	EA		12' To 14' Arecastrum romanzoffianum - Queen Palm.....	192.50	
32 93 43 00-1084	EA		14' To 16' Arecastrum romanzoffianum - Queen Palm.....	240.62	
32 93 43 00-1085	EA		6' Bauhinia purpurea - Purple Orchid Tree.....	519.75	
32 93 43 00-1086	EA		8' Bauhinia purpurea - Purple Orchid Tree.....	693.00	
32 93 43 00-1087	EA		10' Bauhinia purpurea - Purple Orchid Tree.....	866.25	
32 93 43 00-1088	EA		24" Box Bauhinia purpurea - Purple Orchid Tree.....	225.22	
32 93 43 00-1089	EA		6' Bauhinia variegata candida - White Orchid Tree.....	577.50	
32 93 43 00-1090	EA		8' Bauhinia variegata candida - White Orchid Tree.....	770.00	
32 93 43 00-1091	EA		10' Bauhinia variegata candida - White Orchid Tree.....	962.50	
32 93 43 00-1092	EA		4' To 5' Bauninia blakeana - Hong Kong Orchid.....	413.88	
32 93 43 00-1093	EA		6' Bauninia blakeana - Hong Kong Orchid.....	490.88	
32 93 43 00-1094	EA		8' Bauninia blakeana - Hong Kong Orchid.....	654.50	
32 93 43 00-1095	EA		10' Bauninia blakeana - Hong Kong Orchid.....	818.12	
32 93 43 00-1096	EA		6' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	314.50	
32 93 43 00-1097	EA		8' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	419.33	
32 93 43 00-1098	EA		10' Callistemon citrinus - Crimson or Lemon Bottle Brush.....	524.16	
32 93 43 00-1099	EA		6' Callistemon viminalis - Weeping Bottle Brush.....	314.50	
32 93 43 00-1100	EA		8' Callistemon viminalis - Weeping Bottle Brush.....	419.33	
32 93 43 00-1101	EA		10' Callistemon viminalis - Weeping Bottle Brush.....	524.16	
32 93 43 00-1102	EA		12' Callistemon viminalis - Weeping Bottle Brush.....	628.99	
32 93 43 00-1103	EA		3' To 4' Chamaedorea radicalis - Dwarf Bamboo Palm.....	202.12	
32 93 43 00-1104	EA		5' To 6' Chamaedorea radicalis - Dwarf Bamboo Palm.....	317.62	
32 93 43 00-1105	EA		3' To 4' Chamaerops humilis - European Fan Palm.....	173.25	
32 93 43 00-1106	EA		5' To 6' Chamaerops humilis - European Fan Palm.....	231.00	
32 93 43 00-1107	EA		7' To 8' Chamaerops humilis - European Fan Palm.....	539.00	
32 93 43 00-1108	EA		9' To 10' Chamaerops humilis - European Fan Palm.....	924.00	
32 93 43 00-1109	EA		6' To 7' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	134.75	
32 93 43 00-1110	EA		8' To 10' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	269.50	
32 93 43 00-1111	EA		10' To 12' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	346.50	
32 93 43 00-1112	EA		12' To 14' Cocos nucifera 'Jamaican Maypan' - Maypan Coconut.....	481.25	
32 93 43 00-1113	EA		12' To 16' Cocos nucifera - Coconut Palm.....	405.93	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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32 93 43 00-1114	EA	6'	Eriobotrya deflexa - Bronze Loquat.....	519.75	
32 93 43 00-1115	EA	8'	Eriobotrya deflexa - Bronze Loquat.....	693.00	
32 93 43 00-1116	EA	10'	Eriobotrya deflexa - Bronze Loquat.....	866.25	
32 93 43 00-1117	EA	6'	Eucalyptus erythrocorys - Red Cap Gum.....	519.75	
32 93 43 00-1118	EA	8'	Eucalyptus erythrocorys - Red Cap Gum.....	693.00	
32 93 43 00-1119	EA	10'	Eucalyptus erythrocorys - Red Cap Gum.....	866.25	
32 93 43 00-1120	EA	6'	Eucalyptus gunnii - Cider Gum.....	519.75	
32 93 43 00-1121	EA	8'	Eucalyptus gunnii - Cider Gum.....	693.00	
32 93 43 00-1122	EA	10'	Eucalyptus gunnii - Cider Gum.....	866.25	
32 93 43 00-1123	EA	6'	Eucalyptus leucoxylo - White Ironbark.....	519.75	
32 93 43 00-1124	EA	8'	Eucalyptus leucoxylo - White Ironbark.....	693.00	
32 93 43 00-1125	EA	10'	Eucalyptus leucoxylo - White Ironbark.....	866.25	
32 93 43 00-1126	EA	12'	Eucalyptus leucoxylo - White Ironbark.....	1,039.50	
32 93 43 00-1127	EA	6'	Eucalyptus polyanthemus - Silver Dollar Gum.....	519.75	
32 93 43 00-1128	EA	8'	Eucalyptus polyanthemus - Silver Dollar Gum.....	693.00	
32 93 43 00-1129	EA	10'	Eucalyptus polyanthemus - Silver Dollar Gum.....	866.25	
32 93 43 00-1130	EA	6'	Eucalyptus torquata - Coral Gum.....	519.75	
32 93 43 00-1131	EA	8'	Eucalyptus torquata - Coral Gum.....	693.00	
32 93 43 00-1132	EA	10'	Eucalyptus torquata - Coral Gum.....	866.25	
32 93 43 00-1133	EA	8'	Fraxinus oxycarpa "Raywood" - Raywood Ash.....	326.14	
32 93 43 00-1134	EA	10'	Fraxinus oxycarpa "Raywood" - Raywood Ash.....	442.62	
32 93 43 00-1135	EA	12'	Fraxinus oxycarpa "Raywood" - Raywood Ash.....	547.46	
32 93 43 00-1136	EA	6'	Jacarandra acutifolia - Jacaranda.....	519.75	
32 93 43 00-1137	EA	8'	Jacarandra acutifolia - Jacaranda.....	693.00	
32 93 43 00-1138	EA	10'	Jacarandra acutifolia - Jacaranda.....	866.25	
32 93 43 00-1139	EA	24"	Box Jacarandra acutifolia - Jacaranda.....	225.22	
32 93 43 00-1140	EA	6'	Olea europaea - Olive "Fruitless".....	384.51	
32 93 43 00-1141	EA	8'	Olea europaea - Olive "Fruitless".....	512.68	
32 93 43 00-1142	EA	10'	Olea europaea - Olive "Fruitless".....	640.84	
32 93 43 00-1143	EA	12'	Olea europaea - Olive "Fruitless".....	769.01	
32 93 43 00-1144	EA	24"	Box Olea europaea - Olive "Fruitless".....	472.80	
32 93 43 00-1145	EA	5 Gallon	Pistacia chinensis - Chinese Pistache.....	34.65	
32 93 43 00-1146	EA	15 Gallon	Pistacia chinensis - Chinese Pistache.....	115.50	
32 93 43 00-1147	EA	24"	Box Pistacia chinensis - Chinese Pistache.....	448.52	
32 93 43 00-1148	EA	36"	Box Pistacia chinensis - Chinese Pistache.....	1,193.50	
32 93 43 00-1149	EA	48"	Box Pistacia chinensis - Chinese Pistache.....	2,541.00	
32 93 43 00-1150	EA	5 Gallon	Pyrus kawakamii - Evergreen Pear, Single.....	21.67	
32 93 43 00-1151	EA	15 Gallon	Pyrus kawakamii - Evergreen Pear, Single.....	72.22	
32 93 43 00-1152	EA	24"	Box Pyrus kawakamii - Evergreen Pear, Single.....	271.40	
32 93 43 00-1153	EA	30"	Box Pyrus kawakamii - Evergreen Pear, Single.....	496.20	
32 93 43 00-1154	EA	36"	Box Pyrus kawakamii - Evergreen Pear, Single.....	722.18	
32 93 43 00-1155	EA	5 Gallon	Pyrus kawakamii - Evergreen Pear, Multi.....	21.67	
32 93 43 00-1156	EA	15 Gallon	Pyrus kawakamii - Evergreen Pear, Multi.....	76.88	
32 93 43 00-1157	EA	24"	Box Pyrus kawakamii - Evergreen Pear, Multi.....	279.55	
32 93 43 00-1158	EA	30"	Box Pyrus kawakamii - Evergreen Pear, Multi.....	496.20	
32 93 43 00-1159	EA	36"	Box Pyrus kawakamii - Evergreen Pear, Multi.....	722.18	
32 93 43 00-1160	EA	9'	Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	144.38	
32 93 43 00-1161	EA	11'	Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	240.62	
32 93 43 00-1162	EA	15'	Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	365.75	
32 93 43 00-1163	EA	17'	Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	413.88	
32 93 43 00-1164	EA	20'	Ptychosperma elegans - Alexander Palm, Solitaire Palm.....	481.25	
32 93 43 00-1165	EA	4' To 5'	Rhapis excelsa - Lady Palm.....	365.75	
32 93 43 00-1166	EA	6' To 7'	Rhapis excelsa - Lady Palm.....	519.75	
32 93 43 00-1167	EA	8' To 9'	Roystonea regia - Royal Palm.....	294.52	
32 93 43 00-1168	EA	10' To 11'	Roystonea regia - Royal Palm.....	359.98	
32 93 43 00-1169	EA	12' To 13'	Roystonea regia - Royal Palm.....	425.42	
32 93 43 00-1170	EA	14' To 15'	Roystonea regia - Royal Palm.....	490.88	
32 93 43 00-1171	EA	16' To 17'	Roystonea regia - Royal Palm.....	556.32	
32 93 43 00-1172	EA	18' To 19'	Roystonea regia - Royal Palm.....	621.78	
32 93 43 00-1173	EA	20' To 21'	Roystonea regia - Royal Palm.....	687.22	
32 93 43 00-1174	EA	10' To 16'	Sabal palmetto - Cabbage Palm.....	148.84	
32 93 43 00-1175	EA	6' To 7'	Thrinax morrisii - Key Thatch Palm.....	404.25	
32 93 43 00-1176	EA	8' To 9'	Thrinax morrisii - Key Thatch Palm.....	519.75	
32 93 43 00-1177	EA	10' To 11'	Thrinax morrisii - Key Thatch Palm.....	635.25	
32 93 43 00-1178	EA	1 Gallon	Washingtonia robusta - Mexican Fan Palm.....	8.97	
32 93 43 00-1179	EA	5 Gallon	Washingtonia robusta - Mexican Fan Palm.....	27.91	
32 93 43 00-1180	EA	15 Gallon	Washingtonia robusta - Mexican Fan Palm.....	97.67	
32 93 43 00-1181	EA	24"	Box Washingtonia robusta - Mexican Fan Palm.....	318.93	
32 93 43 00-1182	EA	36"	Box Washingtonia robusta - Mexican Fan Palm.....	847.15	
32 93 43 00-1183	EA	6'	Washingtonia robusta - Mexican Fan Palm.....	519.75	
32 93 43 00-1184	EA	8'	Washingtonia robusta - Mexican Fan Palm.....	693.00	
32 93 43 00-1185	EA	10'	Washingtonia robusta - Mexican Fan Palm.....	866.25	
32 93 43 00-1186	EA	12'	Washingtonia robusta - Mexican Fan Palm.....	1,039.50	

**32 93 83 Planting of Trees, Shrubs and Ground Cover (32 93)**

Note: Includes moving plant(s) from truck or staging site to planting site, excavation of hole, placing plant in hole, backfill and compaction. Use appropriate gallon, height or caliper size to match with description from plant section.

**32 93 83 00-0001 Planting Trees (32 93 83)**

Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.

32 93 83 00-0002	EA	3" To 5"	Bare Root Seedlings Tree Planting.....	1.31	
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		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0003 EA 6" To 10" Bare Root Seedlings Tree Planting.....	2.11	
32 93 83 00-0004 EA 11" To 16" Bare Root Seedlings Tree Planting.....	2.64	
32 93 83 00-0005 EA 17" To 24" Bare Root Seedlings Tree Planting.....	4.22	
32 93 83 00-0006 EA 1 Gallon Container Tree Planting.....	21.09	
For >10 To 25, Deduct	-1.05	
For >25 To 50, Deduct	-2.64	
For >50 To 100, Deduct	-4.22	
For >100, Deduct	-6.33	
32 93 83 00-0007 EA 2 Gallon Container Tree Planting.....	29.53	
For >10 To 25, Deduct	-1.48	
For >25 To 50, Deduct	-3.69	
For >50 To 100, Deduct	-5.91	
For >100, Deduct	-8.86	
32 93 83 00-0008 EA 3 Gallon Container Tree Planting.....	37.97	
For >10 To 25, Deduct	-1.90	
For >25 To 50, Deduct	-4.75	
For >50 To 100, Deduct	-7.59	
For >100, Deduct	-11.39	
32 93 83 00-0009 EA 5 Gallon Container Tree Planting.....	63.28	
For >10 To 25, Deduct	-3.16	
For >25 To 50, Deduct	-7.91	
For >50 To 100, Deduct	-12.66	
For >100, Deduct	-18.98	
32 93 83 00-0010 EA 7 Gallon Container Tree Planting.....	84.38	
For >10 To 25, Deduct	-4.22	
For >25 To 50, Deduct	-10.55	
For >50 To 100, Deduct	-16.88	
For >100, Deduct	-25.31	
32 93 83 00-0011 EA 10 Gallon Container Tree Planting.....	109.69	
For >10 To 25, Deduct	-5.48	
For >25 To 50, Deduct	-13.71	
For >50 To 100, Deduct	-21.94	
For >100, Deduct	-32.91	
32 93 83 00-0012 EA 15 Gallon Container Tree Planting.....	156.09	
For >10 To 25, Deduct	-7.80	
For >25 To 50, Deduct	-19.51	
For >50 To 100, Deduct	-31.22	
For >100, Deduct	-46.83	
32 93 83 00-0013 EA 20 Gallon Container Tree Planting.....	257.34	
For >10 To 25, Deduct	-12.87	
For >25 To 50, Deduct	-32.17	
For >50 To 100, Deduct	-51.47	
For >100, Deduct	-77.20	
32 93 83 00-0014 EA 25 Gallon Container Tree Planting.....	333.27	
For >10 To 25, Deduct	-16.66	
For >25 To 50, Deduct	-41.66	
For >50 To 100, Deduct	-66.65	
For >100, Deduct	-99.98	
32 93 83 00-0015 EA 30 Gallon Container Tree Planting.....	400.78	
For >10 To 25, Deduct	-20.04	
For >25 To 50, Deduct	-50.10	
For >50 To 100, Deduct	-80.16	
For >100, Deduct	-120.23	
32 93 83 00-0016 EA 45 Gallon Container Tree Planting.....	497.80	
For >10 To 25, Deduct	-24.89	
For >25 To 50, Deduct	-62.23	
For >50 To 100, Deduct	-99.56	
For >100, Deduct	-149.34	
32 93 83 00-0017 EA 65 Gallon Container Tree Planting.....	590.61	
For >10 To 25, Deduct	-29.53	
For >25 To 50, Deduct	-73.83	
For >50 To 100, Deduct	-118.12	
For >100, Deduct	-177.18	
32 93 83 00-0018 EA 6' Balled And Burlapped Tree Planting.....	210.93	
For >10 To 25, Deduct	-10.55	
For >25 To 50, Deduct	-26.37	
For >50 To 100, Deduct	-42.19	
For >100, Deduct	-63.28	
32 93 83 00-0019 EA 7' Balled And Burlapped Tree Planting.....	280.96	
For >10 To 25, Deduct	-14.05	
For >25 To 50, Deduct	-35.12	
For >50 To 100, Deduct	-56.19	
For >100, Deduct	-84.29	
32 93 83 00-0020 EA 8' Balled And Burlapped Tree Planting.....	316.40	
For >10 To 25, Deduct	-15.82	
For >25 To 50, Deduct	-39.55	
For >50 To 100, Deduct	-63.28	
For >100, Deduct	-94.92	
32 93 83 00-0021 EA 10' Balled And Burlapped Tree Planting.....	369.13	
For >10 To 25, Deduct	-18.46	
For >25 To 50, Deduct	-46.14	
For >50 To 100, Deduct	-73.83	
For >100, Deduct	-110.74	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0022 EA 12' Balled And Burlapped Tree Planting .....	493.58	
For>10 To 25, Deduct	-24.68	
For>25 To 50, Deduct	-61.70	
For>50 To 100, Deduct	-98.72	
For>100, Deduct	-148.07	
32 93 83 00-0023 EA 14' Balled And Burlapped Tree Planting .....	565.30	
For>10 To 25, Deduct	-28.27	
For>25 To 50, Deduct	-70.66	
For>50 To 100, Deduct	-113.06	
For>100, Deduct	-169.59	
32 93 83 00-0024 EA 16' Balled And Burlapped Tree Planting .....	685.53	
For>10 To 25, Deduct	-34.28	
For>25 To 50, Deduct	-85.69	
For>50 To 100, Deduct	-137.11	
For>100, Deduct	-205.66	
32 93 83 00-0025 EA 18' Balled And Burlapped Tree Planting .....	822.64	
For>10 To 25, Deduct	-41.13	
For>25 To 50, Deduct	-102.83	
For>50 To 100, Deduct	-164.53	
For>100, Deduct	-246.79	
32 93 83 00-0026 EA 20' Balled And Burlapped Tree Planting .....	949.19	
For>10 To 25, Deduct	-47.46	
For>25 To 50, Deduct	-118.65	
For>50 To 100, Deduct	-189.84	
For>100, Deduct	-284.76	
32 93 83 00-0027 EA 1-1/2" Caliper Balled And Burlapped Tree Planting .....	316.40	
For>10 To 25, Deduct	-15.82	
For>25 To 50, Deduct	-39.55	
For>50 To 100, Deduct	-63.28	
For>100, Deduct	-94.92	
32 93 83 00-0028 EA 2" Caliper Balled And Burlapped Tree Planting .....	369.13	
For>10 To 25, Deduct	-18.46	
For>25 To 50, Deduct	-46.14	
For>50 To 100, Deduct	-73.83	
For>100, Deduct	-110.74	
32 93 83 00-0029 EA 2-1/2" Caliper Balled And Burlapped Tree Planting .....	495.69	
For>10 To 25, Deduct	-24.78	
For>25 To 50, Deduct	-61.96	
For>50 To 100, Deduct	-99.14	
For>100, Deduct	-148.71	
32 93 83 00-0030 EA 3" Caliper Balled And Burlapped Tree Planting .....	569.52	
For>10 To 25, Deduct	-28.48	
For>25 To 50, Deduct	-71.19	
For>50 To 100, Deduct	-113.90	
For>100, Deduct	-170.86	
32 93 83 00-0031 EA 3-1/2" Caliper Balled And Burlapped Tree Planting .....	632.80	
For>10 To 25, Deduct	-31.64	
For>25 To 50, Deduct	-79.10	
For>50 To 100, Deduct	-126.56	
For>100, Deduct	-189.84	
32 93 83 00-0032 EA 4" Caliper Balled And Burlapped Tree Planting .....	725.61	
For>10 To 25, Deduct	-36.28	
For>25 To 50, Deduct	-90.70	
For>50 To 100, Deduct	-145.12	
For>100, Deduct	-217.68	
<b>32 93 83 00-0033 Planting Shrubs (32 93 83)</b>		
Note: Excludes mulch. See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0034 EA 1 Gallon Container Shrub Planting .....	17.94	
For>10 To 25, Deduct	-0.90	
For>25 To 50, Deduct	-2.24	
For>50 To 100, Deduct	-3.59	
For>100, Deduct	-5.38	
32 93 83 00-0035 EA 2 Gallon Container Shrub Planting .....	25.31	
For>10 To 25, Deduct	-1.27	
For>25 To 50, Deduct	-3.16	
For>50 To 100, Deduct	-5.06	
For>100, Deduct	-7.59	
32 93 83 00-0036 EA 3 Gallon Container Shrub Planting .....	31.64	
For>10 To 25, Deduct	-1.58	
For>25 To 50, Deduct	-3.96	
For>50 To 100, Deduct	-6.33	
For>100, Deduct	-9.49	
32 93 83 00-0037 EA 4 Gallon Container Shrub Planting .....	42.19	
For>10 To 25, Deduct	-2.11	
For>25 To 50, Deduct	-5.27	
For>50 To 100, Deduct	-8.44	
For>100, Deduct	-12.66	
32 93 83 00-0038 EA 5 Gallon Container Shrub Planting .....	52.74	
For>10 To 25, Deduct	-2.64	
For>25 To 50, Deduct	-6.59	
For>50 To 100, Deduct	-10.55	
For>100, Deduct	-15.82	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0039 EA 7 Gallon Container Shrub Planting .....	71.72	
For >10 To 25, Deduct	-3.59	
For >25 To 50, Deduct	-8.97	
For >50 To 100, Deduct	-14.34	
For >100, Deduct	-21.52	
32 93 83 00-0040 EA 10 Gallon Container Shrub Planting .....	94.92	
For >10 To 25, Deduct	-4.75	
For >25 To 50, Deduct	-11.87	
For >50 To 100, Deduct	-18.98	
For >100, Deduct	-28.48	
32 93 83 00-0041 EA 15 Gallon Container Shrub Planting .....	130.78	
For >10 To 25, Deduct	-6.54	
For >25 To 50, Deduct	-16.35	
For >50 To 100, Deduct	-26.16	
For >100, Deduct	-39.23	
32 93 83 00-0042 EA 20 Gallon Container Shrub Planting .....	219.37	
For >10 To 25, Deduct	-10.97	
For >25 To 50, Deduct	-27.42	
For >50 To 100, Deduct	-43.87	
For >100, Deduct	-65.81	
32 93 83 00-0043 EA 25 Gallon Container Shrub Planting .....	280.96	
For >10 To 25, Deduct	-14.05	
For >25 To 50, Deduct	-35.12	
For >50 To 100, Deduct	-56.19	
For >100, Deduct	-84.29	
32 93 83 00-0044 EA 15" Balled And Burlapped Shrub Planting .....	59.06	
For >10 To 25, Deduct	-2.95	
For >25 To 50, Deduct	-7.38	
For >50 To 100, Deduct	-11.81	
For >100, Deduct	-17.72	
32 93 83 00-0045 EA 18" Balled And Burlapped Shrub Planting .....	61.17	
For >10 To 25, Deduct	-3.06	
For >25 To 50, Deduct	-7.65	
For >50 To 100, Deduct	-12.23	
For >100, Deduct	-18.35	
32 93 83 00-0046 EA 24" Balled And Burlapped Shrub Planting .....	67.50	
For >10 To 25, Deduct	-3.38	
For >25 To 50, Deduct	-8.44	
For >50 To 100, Deduct	-13.50	
For >100, Deduct	-20.25	
32 93 83 00-0047 EA 30" Balled And Burlapped Shrub Planting .....	67.50	
For >10 To 25, Deduct	-3.38	
For >25 To 50, Deduct	-8.44	
For >50 To 100, Deduct	-13.50	
For >100, Deduct	-20.25	
32 93 83 00-0048 EA 36" Balled And Burlapped Shrub Planting .....	73.83	
For >10 To 25, Deduct	-3.69	
For >25 To 50, Deduct	-9.23	
For >50 To 100, Deduct	-14.77	
For >100, Deduct	-22.15	
32 93 83 00-0049 EA 42" Balled And Burlapped Shrub Planting .....	78.04	
For >10 To 25, Deduct	-3.90	
For >25 To 50, Deduct	-9.76	
For >50 To 100, Deduct	-15.61	
For >100, Deduct	-23.41	
32 93 83 00-0050 EA 48" Balled And Burlapped Shrub Planting .....	84.38	
For >10 To 25, Deduct	-4.22	
For >25 To 50, Deduct	-10.55	
For >50 To 100, Deduct	-16.88	
For >100, Deduct	-25.31	
32 93 83 00-0051 EA 5' Balled And Burlapped Shrub Planting .....	126.56	
For >10 To 25, Deduct	-6.33	
For >25 To 50, Deduct	-15.82	
For >50 To 100, Deduct	-25.31	
For >100, Deduct	-37.97	
32 93 83 00-0052 EA 6' Balled And Burlapped Shrub Planting .....	179.29	
For >10 To 25, Deduct	-8.96	
For >25 To 50, Deduct	-22.41	
For >50 To 100, Deduct	-35.86	
For >100, Deduct	-53.79	
32 93 83 00-0053 EA 7' Balled And Burlapped Shrub Planting .....	238.35	
For >10 To 25, Deduct	-11.92	
For >25 To 50, Deduct	-29.79	
For >50 To 100, Deduct	-47.67	
For >100, Deduct	-71.51	
32 93 83 00-0054 EA 8' Balled And Burlapped Shrub Planting .....	270.00	
For >10 To 25, Deduct	-13.50	
For >25 To 50, Deduct	-33.75	
For >50 To 100, Deduct	-54.00	
For >100, Deduct	-81.00	
32 93 83 00-0055 EA 9' Balled And Burlapped Shrub Planting .....	291.09	
For >10 To 25, Deduct	-14.55	
For >25 To 50, Deduct	-36.39	
For >50 To 100, Deduct	-58.22	
For >100, Deduct	-87.33	

**32 Exterior Improvements****32 90 Planting****32 93 Plants**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 93 83 00-0056	EA		10' Balled And Burlapped Shrub Planting .....	316.40	
			<i>For &gt;10 To 25, Deduct</i>	-15.82	
			<i>For &gt;25 To 50, Deduct</i>	-39.55	
			<i>For &gt;50 To 100, Deduct</i>	-63.28	
			<i>For &gt;100, Deduct</i>	-94.92	
<b>32 93 83 00-0057</b>			<b>Planting Groundcover, Vines, Perennials, Annuals And Bulbs <small>(32 93 83)</small></b>		
			See CSI section 32 91 13 16-0001 for mulch.		
32 93 83 00-0058	EA		2-1/4" Diameter Potted Groundcover And Flower Planting .....	1.76	
			<i>For &gt;10 To 25, Deduct</i>	-0.09	
			<i>For &gt;25 To 50, Deduct</i>	-0.22	
			<i>For &gt;50 To 100, Deduct</i>	-0.35	
			<i>For &gt;100, Deduct</i>	-0.53	
32 93 83 00-0059	EA		3" Diameter Potted Groundcover And Flower Planting .....	2.01	
			<i>For &gt;10 To 25, Deduct</i>	-0.10	
			<i>For &gt;25 To 50, Deduct</i>	-0.25	
			<i>For &gt;50 To 100, Deduct</i>	-0.40	
			<i>For &gt;100, Deduct</i>	-0.60	
32 93 83 00-0060	EA		4" Diameter Potted Groundcover And Flower Planting .....	2.34	
			<i>For &gt;10 To 25, Deduct</i>	-0.12	
			<i>For &gt;25 To 50, Deduct</i>	-0.29	
			<i>For &gt;50 To 100, Deduct</i>	-0.47	
			<i>For &gt;100, Deduct</i>	-0.70	
32 93 83 00-0061	EA		5-1/2" Diameter Potted Groundcover And Flower Planting .....	2.81	
			<i>For &gt;10 To 25, Deduct</i>	-0.14	
			<i>For &gt;25 To 50, Deduct</i>	-0.35	
			<i>For &gt;50 To 100, Deduct</i>	-0.56	
			<i>For &gt;100, Deduct</i>	-0.84	
32 93 83 00-0062	EA		6" Diameter Potted Groundcover And Flower Planting .....	3.51	
			<i>For &gt;10 To 25, Deduct</i>	-0.18	
			<i>For &gt;25 To 50, Deduct</i>	-0.44	
			<i>For &gt;50 To 100, Deduct</i>	-0.70	
			<i>For &gt;100, Deduct</i>	-1.05	
32 93 83 00-0063	EA		8" Diameter Potted Groundcover And Flower Planting .....	5.27	
			<i>For &gt;10 To 25, Deduct</i>	-0.26	
			<i>For &gt;25 To 50, Deduct</i>	-0.66	
			<i>For &gt;50 To 100, Deduct</i>	-1.05	
			<i>For &gt;100, Deduct</i>	-1.58	
32 93 83 00-0064	EA		1 Gallon Container Groundcover And Flower Planting .....	16.87	
			<i>For &gt;10 To 25, Deduct</i>	-0.84	
			<i>For &gt;25 To 50, Deduct</i>	-2.11	
			<i>For &gt;50 To 100, Deduct</i>	-3.37	
			<i>For &gt;100, Deduct</i>	-5.06	
32 93 83 00-0065	EA		2 Gallon Container Groundcover And Flower Planting .....	23.21	
			<i>For &gt;10 To 25, Deduct</i>	-1.16	
			<i>For &gt;25 To 50, Deduct</i>	-2.90	
			<i>For &gt;50 To 100, Deduct</i>	-4.64	
			<i>For &gt;100, Deduct</i>	-6.96	
32 93 83 00-0066	EA		3 Gallon Container Groundcover And Flower Planting .....	29.53	
			<i>For &gt;10 To 25, Deduct</i>	-1.48	
			<i>For &gt;25 To 50, Deduct</i>	-3.69	
			<i>For &gt;50 To 100, Deduct</i>	-5.91	
			<i>For &gt;100, Deduct</i>	-8.86	
32 93 83 00-0067	EA		4 Gallon Container Groundcover And Flower Planting .....	37.97	
			<i>For &gt;10 To 25, Deduct</i>	-1.90	
			<i>For &gt;25 To 50, Deduct</i>	-4.75	
			<i>For &gt;50 To 100, Deduct</i>	-7.59	
			<i>For &gt;100, Deduct</i>	-11.39	
32 93 83 00-0068	EA		5 Gallon Container Groundcover And Flower Planting .....	46.40	
			<i>For &gt;10 To 25, Deduct</i>	-2.32	
			<i>For &gt;25 To 50, Deduct</i>	-5.80	
			<i>For &gt;50 To 100, Deduct</i>	-9.28	
			<i>For &gt;100, Deduct</i>	-13.92	
32 93 83 00-0069	EA		7 Gallon Container Groundcover And Flower Planting .....	63.28	
			<i>For &gt;10 To 25, Deduct</i>	-3.16	
			<i>For &gt;25 To 50, Deduct</i>	-7.91	
			<i>For &gt;50 To 100, Deduct</i>	-12.66	
			<i>For &gt;100, Deduct</i>	-18.98	
32 93 83 00-0070	EA		Bulb Planting .....	1.05	
			<i>For &gt;10 To 25, Deduct</i>	-0.05	
			<i>For &gt;25 To 50, Deduct</i>	-0.13	
			<i>For &gt;50 To 100, Deduct</i>	-0.21	
			<i>For &gt;100, Deduct</i>	-0.32	
32 93 83 00-0071	EA		Flats Of 24 Groundcover And Flower Planting .....	29.53	
			<i>For &gt;10 To 25, Deduct</i>	-1.48	
			<i>For &gt;25, Deduct</i>	-3.69	
32 93 83 00-0072	EA		Flats Of 36 Groundcover And Flower Planting .....	41.89	
			<i>For &gt;10 To 25, Deduct</i>	-2.09	
			<i>For &gt;25, Deduct</i>	-5.24	
32 93 83 00-0073	EA		Flats Of 48 Groundcover And Flower Planting .....	55.76	
			<i>For &gt;10 To 25, Deduct</i>	-2.79	
			<i>For &gt;25, Deduct</i>	-6.97	



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Plants	32 93
			<b>32</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**32 93 83 00-0074**

**Tree Pits** (32 93 83)

Note: Costs given show the tree pit size accommodates the soil ball and the type of soil excavated includes excavation, bank run sand and gravel fill for drainage, imported mix planting soil, hand backfill, perforated drainage pipe for watering, and drainage fabric. Includes one layer of woven fabric to be applied before mulch is spread. Excludes additional soil conditioners or mulch.

32 93 83 00-0075	EA	2' x 1-1/4' Deep Tree Pit	156.58	
32 93 83 00-0076	EA	2' x 2-1/2' Deep Tree Pit	234.83	
32 93 83 00-0077	EA	2-1/2' x 1-1/2' Deep Tree Pit	299.75	
32 93 83 00-0078	EA	2-1/2' x 3' Deep Tree Pit	449.57	
32 93 83 00-0079	EA	3' x 1-3/4' Deep Tree Pit	469.30	
32 93 83 00-0080	EA	3' x 3-1/2' Deep Tree Pit	701.20	
32 93 83 00-0081	EA	3-1/2' x 1-3/4' Deep Tree Pit	579.01	
32 93 83 00-0082	EA	3-1/2' x 3-1/2' Deep Tree Pit	867.61	
32 93 83 00-0083	EA	4' x 2' Deep Tree Pit	693.66	
32 93 83 00-0084	EA	4' x 4' Deep Tree Pit	1,040.07	
32 93 83 00-0085	EA	4-1/2' x 2' Deep Tree Pit	1,005.37	
32 93 83 00-0086	EA	4-1/2' x 4' Deep Tree Pit	1,510.28	
32 93 83 00-0087	EA	5' x 2-1/4' Deep Tree Pit	1,337.10	
32 93 83 00-0088	EA	5' x 4-1/2' Deep Tree Pit	1,995.20	
32 93 83 00-0089	EA	6' x 2-1/2' Deep Tree Pit	1,895.99	
32 93 83 00-0090	EA	6' x 5' Deep Tree Pit	2,840.86	
32 93 83 00-0091	EA	7' x 3' Deep Tree Pit	3,198.24	
32 93 83 00-0092	EA	7' x 6' Deep Tree Pit	4,816.40	
32 93 83 00-0093	EA	8' x 3-1/4' Deep Tree Pit	4,413.78	
32 93 83 00-0094	EA	8' x 6-1/2' Deep Tree Pit	6,618.59	

**32 94 Planting Accessories** (32 94)

**32 94 13 Landscape Edging** (32 94)

Note: Including stakes.

**32 94 13 00-0001 Landscape Edging** (32 94 13)

Note: Includes stakes.

32 94 13 00-0002	LF	1/8" x 4", Mill Finish, Aluminum Alloy Landscape Edging	9.69	2.56
32 94 13 00-0003	LF	1/8" x 4", Black Paint, Aluminum Alloy Landscape Edging	10.63	2.56
32 94 13 00-0004	LF	1/8" x 4", Black Anodized, Aluminum Alloy Landscape Edging	10.70	2.56
32 94 13 00-0005	LF	3/16" x 4", Mill Finish, Aluminum Alloy Landscape Edging	12.34	2.64
32 94 13 00-0006	LF	3/16" x 4", Black Paint, Aluminum Alloy Landscape Edging	13.50	2.64
32 94 13 00-0007	LF	3/16" x 4", Black Anodized, Aluminum Alloy Landscape Edging	13.48	2.64
32 94 13 00-0008	LF	1/8" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	10.91	2.73
32 94 13 00-0009	LF	1/8" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	12.21	2.73
32 94 13 00-0010	LF	1/8" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	12.35	2.73
32 94 13 00-0011	LF	3/16" x 5-1/2", Mill Finish, Aluminum Alloy Landscape Edging	13.95	2.81
32 94 13 00-0012	LF	3/16" x 5-1/2", Black Paint, Aluminum Alloy Landscape Edging	15.25	2.81
32 94 13 00-0013	LF	3/16" x 5-1/2", Black Anodized, Aluminum Alloy Landscape Edging	15.36	2.81
32 94 13 00-0014	LF	3/16" x 4" Powder Coated Steel Landscape Edging	12.24	2.64
32 94 13 00-0015	LF	1/4" x 5" Powder Coated Steel Landscape Edging	17.37	2.64

**32 94 16 Landscape Timbers** (32 94)

32 94 16 00-0001	LF	6" x 8" Railroad Ties	15.53	5.15
32 94 16 00-0002	LF	7" x 9" Railroad Ties	18.73	6.46
32 94 16 00-0003	LF	1" x 4" Redwood	5.39	1.82
32 94 16 00-0004	LF	2" x 4" Redwood Edging	7.42	2.73
32 94 16 00-0005	LF	4" x 6" Pressure Treated Hardwood	10.50	3.63
32 94 16 00-0006	LF	6" x 6" Pressure Treated Hardwood	13.68	4.54
32 94 16 00-0007	LF	6" x 8" Pressure Treated Hardwood	15.94	5.34
32 94 16 00-0008	LF	1" x 4" Pressure Treated Pine	4.18	1.82
32 94 16 00-0009	LF	2" x 4" Pressure Treated Pine	6.34	2.73
32 94 16 00-0010	LF	4" x 6" Pressure Treated Pine	9.98	3.52
32 94 16 00-0011	LF	6" x 6" Pressure Treated Pine	13.57	4.54
32 94 16 00-0012	LF	6" x 8" Pressure Treated Pine	16.58	5.34

**32 94 43 Tree Grates** (32 94)

**32 94 43 00-0001 Tree Grates With Frames** (32 94 43)

**32 94 43 00-0002 Round Cast Iron Tree Grates With Frames** (32 94 43 00-0001)

32 94 43 00-0003	EA	32" Diameter, 100 To 150 LB Cast Iron Tree Grate With Frame	1,058.67	68.05
		For >3 To 9, Deduct	-69.19	
		For >9, Deduct	-143.00	
32 94 43 00-0004	EA	36" Diameter, 125 To 175 LB Cast Iron Tree Grate With Frame	1,226.38	68.05
		For >3 To 9, Deduct	-81.77	
		For >9, Deduct	-168.99	
32 94 43 00-0005	EA	42" Diameter, 150 To 200 LB Cast Iron Tree Grate With Frame	1,481.42	90.74
		For >3 To 9, Deduct	-97.50	
		For >9, Deduct	-201.49	
32 94 43 00-0006	EA	48" Diameter, 200 To 250 LB Cast Iron Tree Grate With Frame	1,846.49	90.74
		For >3 To 9, Deduct	-124.88	
		For >9, Deduct	-258.08	

**32 Exterior Improvements****32 90 Planting****32 94 Planting Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0007 EA 54" Diameter, 300 To 350 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	2,367.94 -160.58 -331.87	113.42
32 94 43 00-0008 EA 60" Diameter, Up To 350 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	2,482.36 -165.76 -342.57	136.10
32 94 43 00-0009 EA 60" Diameter, >350 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	2,736.43 -184.82 -381.96	136.10
32 94 43 00-0010 EA 72" Diameter, Up To 550 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,641.65 -244.20 -504.69	192.82
32 94 43 00-0011 EA 72" Diameter, >500 To 550 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,789.66 -255.30 -527.63	192.82
32 94 43 00-0012 EA 72" Diameter, >600 To 650 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,912.99 -264.55 -546.74	192.82
32 94 43 00-0013 EA 72" Diameter, >650 To 700 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	4,011.66 -271.95 -562.04	192.82
32 94 43 00-0014 EA 72" Diameter, >700 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	4,085.66 -277.50 -573.51	192.82
32 94 43 00-0015 EA 93" Diameter, 950 To 1,000 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	4,479.32 -301.92 -623.98	226.84
<b>32 94 43 00-0016 Square Cast Iron Tree Grates With Frames (32 94 43 00-0001)</b>		
32 94 43 00-0017 EA 30" x 30", 75 To 125 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	974.78 -62.90 -130.00	68.05
32 94 43 00-0018 EA 36" x 36", 100 To 150 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	1,184.45 -78.63 -162.49	68.05
32 94 43 00-0019 EA 48" x 48", Up To 200 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	1,756.19 -114.70 -237.05	113.42
32 94 43 00-0020 EA 48" x 48", >200 To 250 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	2,076.86 -138.75 -286.75	113.42
32 94 43 00-0021 EA 48" x 48", >250 To 300 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	2,372.87 -160.95 -332.63	113.42
32 94 43 00-0022 EA 48" x 48", >300 To 350 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	2,644.21 -181.30 -374.69	113.42
32 94 43 00-0023 EA 48" x 48", >350 To 400 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	2,890.88 -199.80 -412.93	113.42
32 94 43 00-0024 EA 48" x 48", >400 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,112.88 -216.45 -447.34	113.42
32 94 43 00-0025 EA 60" x 60", Up To 400 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	2,981.62 -199.80 -412.93	158.79
32 94 43 00-0026 EA 60" x 60", >400 To 450 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,203.62 -216.45 -447.34	158.79
32 94 43 00-0027 EA 60" x 60", >450 To 500 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,400.96 -231.25 -477.92	158.79
32 94 43 00-0028 EA 60" x 60", >500 To 550 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,573.62 -244.20 -504.69	158.79
32 94 43 00-0029 EA 60" x 60", >550 To 600 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,721.63 -255.30 -527.63	158.79
32 94 43 00-0030 EA 60" x 60", >600 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,844.96 -264.55 -546.74	158.79
32 94 43 00-0031 EA 72" x 72", Up To 550 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,641.65 -244.20 -504.69	192.82
32 94 43 00-0032 EA 72" x 72", >550 To 600 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,789.66 -255.30 -527.63	192.82
32 94 43 00-0033 EA 72" x 72", >600 To 650 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	3,912.99 -264.55 -546.74	192.82
32 94 43 00-0034 EA 72" x 72", >650 To 700 LB Cast Iron Tree Grate With Frame ..... <i>For &gt;3 To 9, Deduct</i> <i>For &gt;9, Deduct</i>	4,011.66 -271.95 -562.04	192.82



		<b>Exterior Improvements</b>	<b>32</b>
		Planting	32 90
		Planting Accessories	32 94

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
32 94 43 00-0035 EA 72" x 72", >700 To 750 LB Cast Iron Tree Grate With Frame.....	4,085.66	192.82
For >3 To 9, Deduct	-277.50	
For >9, Deduct	-573.51	
32 94 43 00-0036 EA 72" x 72", >750 To 800 LB Cast Iron Tree Grate With Frame.....	4,134.99	192.82
For >3 To 9, Deduct	-281.20	
For >9, Deduct	-581.15	
32 94 43 00-0037 EA 72" x 72", >800 To 850 LB Cast Iron Tree Grate With Frame.....	4,159.66	192.82
For >3 To 9, Deduct	-283.05	
For >9, Deduct	-584.98	
32 94 43 00-0038 EA 72" x 72", >850 LB Cast Iron Tree Grate With Frame.....	4,184.33	192.82
For >3 To 9, Deduct	-284.90	
For >9, Deduct	-588.80	
<b>32 94 43 00-0039 Rectangular Cast Iron Tree Grates With Frames (32 94 43 00-0001)</b>		
32 94 43 00-0040 EA 36" x 48", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,846.49	90.74
For >3 To 9, Deduct	-124.88	
For >9, Deduct	-258.08	
32 94 43 00-0041 EA 36" x 60", 200 To 250 LB Cast Iron Tree Grate With Frame.....	1,883.49	90.74
For >3 To 9, Deduct	-127.65	
For >9, Deduct	-263.81	
32 94 43 00-0042 EA 36" x 72", 275 To 325 LB Cast Iron Tree Grate With Frame.....	2,301.33	113.42
For >3 To 9, Deduct	-155.59	
For >9, Deduct	-321.55	
32 94 43 00-0043 EA 48" x 72", Up To 350 LB Cast Iron Tree Grate With Frame .....	2,713.27	113.42
For >3 To 9, Deduct	-186.48	
For >9, Deduct	-385.40	
32 94 43 00-0044 EA 48" x 72", >350 LB Cast Iron Tree Grate With Frame.....	2,890.88	113.42
For >3 To 9, Deduct	-199.80	
For >9, Deduct	-412.93	
32 94 43 00-0045 EA 60" x 84", 700 To 750 LB Cast Iron Tree Grate With Frame.....	3,863.66	192.82
For >3 To 9, Deduct	-260.85	
For >9, Deduct	-539.10	
<b>32 94 49 Plant and Tree Accessories (32 94)</b>		
<b>32 94 49 00-0001 Tree Guying (32 94 49)</b>		
<b>32 94 49 00-0002 Tree Guying, Stakes (32 94 49 00-0001)</b>		
Note: Includes stakes, cross brace, double #12 gauge twisted wire and reinforced rubber hose tree wrap.		
32 94 49 00-0003 EA Tree Guying Up To 2" Caliper, 2 Stakes, Guy Wire And Wrap .....	24.41	
32 94 49 00-0004 EA Tree Guying 2" To 3" Caliper, 2 Stakes, Guy Wire And Wrap .....	42.51	
32 94 49 00-0005 EA Tree Guying 3" To 4" Caliper, 3 Stakes, Guy Wire And Wrap .....	73.14	
<b>32 94 49 00-0006 Tree Guying, Anchors (32 94 49 00-0001)</b>		
Note: Includes arrowhead anchor, cable, turnbuckles and wrap or reinforced rubber hose.		
32 94 49 00-0007 EA Tree Guying Up To 3" Caliper, 3" Anchors And Polypropylene Flat Rope .....	104.16	
32 94 49 00-0008 EA Tree Guying 3" To 6" Caliper, 4" Anchors And Polypropylene Flat Rope .....	140.68	
32 94 49 00-0009 EA Tree Guying 6" To 8" Caliper, 6" Anchors And Polypropylene Flat Rope .....	180.95	
32 94 49 00-0010 EA Tree Guying 8" And Up Caliper, 8" Anchors And Polypropylene Flat Rope.....	232.60	
<b>32 94 49 00-0011 Tree Wrap (32 94 49)</b>		
32 94 49 00-0012 EA Tree Wrap, Up To 1" Caliper Applied Ground Level To First Branches Of Tree.....	6.47	
32 94 49 00-0013 EA Tree Wrap, 1" To 2" Caliper Applied Ground Level To First Branches Of Tree .....	10.82	
32 94 49 00-0014 EA Tree Wrap, >2" To 4" Caliper Applied Ground Level To First Branches Of Tree.....	21.56	
32 94 49 00-0015 EA Tree Wrap, >4" To 6" Caliper Applied Ground Level To First Branches Of Tree .....	33.70	
<b>32 94 49 00-0016 Tree Guards (32 94 49)</b>		
32 94 49 00-0017 EA 3' Preformed Plastic Tree Guard .....	14.04	
32 94 49 00-0018 EA 2' Preformed Plastic Tree Guard .....	12.03	
<b>32 94 49 00-0019 Stake Out Tree And Shrub Locations (32 94 49)</b>		
Note: When no design available.		
32 94 49 00-0020 EA Stake Out Trees Or Shrubs .....	6.81	
<b>32 94 49 00-0021 Root Barriers (32 94 49)</b>		
32 94 49 00-0022 EA 12" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	12.25	
32 94 49 00-0023 EA 18" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	17.57	
32 94 49 00-0024 EA 24" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	20.81	
32 94 49 00-0025 EA 36" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	39.46	
32 94 49 00-0026 EA 48" High x 24" Long, 0.080" Polypropylene, Root Barrier Panel With Self Locking Joiner.....	54.70	

**32 96 Transplanting (32 90)**

See CSI section 32 94 49 00-0001 for guying.

**32 Exterior Improvements****32 90 Planting****32 96 Transplanting**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**32 96 33 Shrub Transplanting** (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

<b>32 96 33 00-0001</b>	<b>Moving Shrubs On Site, Relocate</b> <small>(32 96 33)</small>	
	Note: Includes digging up, moving on site, digging new hole and replanting. See CSI section 32 94 49 00-0001 for guying.	
32 96 33 00-0002	EA Up To 18" Root Ball, Move Shrubs On Site .....	72.09
	For >25 To 50, Deduct	-7.21
	For >50, Deduct	-10.81
32 96 33 00-0003	EA >18" To 24" Root Ball, Move Shrubs On Site.....	97.53
	For >25 To 50, Deduct	-9.75
	For >50, Deduct	-14.63
32 96 33 00-0004	EA >24" To 30" Root Ball, Move Shrubs On Site.....	165.37
	For >25 To 50, Deduct	-16.54
	For >50, Deduct	-24.81
32 96 33 00-0005	EA >30" To 36" Root Ball, Move Shrubs On Site.....	254.42
	For >25 To 50, Deduct	-25.44
	For >50, Deduct	-38.16

**32 96 43 Tree Transplanting** (32 96)

Note: Includes digging up, moving on site, digging new hole and replanting.

<b>32 96 43 00-0001</b>	<b>Moving Trees On Site, Relocate</b> <small>(32 96 43)</small>	
	Note: Includes digging up, moving on site, digging new hole and replanting. Excludes crane where necessary for trees over 20' tall. See CSI section 01 22 23 00-0883 for crane lifting equipment, 32 94 49 00-0001 for guying.	
32 96 43 00-0002	EA Up To 24" Root Ball, Move Trees On Site .....	282.58
	For >5 To 10, Deduct	-14.13
	For >10 To 20, Deduct	-28.26
	For >20, Deduct	-42.39
32 96 43 00-0003	EA >24" To 30" Root Ball, Move Trees On Site.....	387.54
	For >5 To 10, Deduct	-19.38
	For >10 To 20, Deduct	-38.75
	For >20, Deduct	-58.13
32 96 43 00-0004	EA >30" To 36" Root Ball, Move Trees On Site.....	627.95
	For >5 To 10, Deduct	-31.40
	For >10 To 20, Deduct	-62.80
	For >20, Deduct	-94.19
32 96 43 00-0005	EA >36" To 48" Root Ball, Move Trees On Site.....	1,043.36
	For >5 To 10, Deduct	-52.17
	For >10 To 20, Deduct	-104.34
	For >20, Deduct	-156.50
32 96 43 00-0006	EA >48" To 60" Root Ball, Move Trees On Site.....	1,695.45
	For >5 To 10, Deduct	-84.77
	For >10 To 20, Deduct	-169.55
	For >20, Deduct	-254.32
32 96 43 00-0007	EA >60" To 72" Root Ball, Move Trees On Site.....	2,187.68
	For >5 To 10, Deduct	-109.38
	For >10 To 20, Deduct	-218.77
	For >20, Deduct	-328.15
32 96 43 00-0008	EA >72" To 84" Root Ball, Move Trees On Site.....	2,825.75
	For >5 To 10, Deduct	-141.29
	For >10 To 20, Deduct	-282.58
	For >20, Deduct	-423.86
32 96 43 00-0009	EA >84" To 96" Root Ball, Move Trees On Site.....	3,390.91
	For >5 To 10, Deduct	-169.55
	For >10 To 20, Deduct	-339.09
	For >20, Deduct	-508.64
32 96 43 00-0010	EA >96" To 120" Root Ball, Move Trees On Site.....	3,853.30
	For >5 To 10, Deduct	-192.67
	For >10 To 20, Deduct	-385.33
	For >20, Deduct	-578.00

**END OF SECTION 32**





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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### 33 Utilities

Note: Buried plastic pipe and conduit includes detectable tracer wire

#### 33 01 Operation and Maintenance of Utilities <sup>(33)</sup>

##### 33 01 10 Operation and Maintenance of Water Utilities <sup>(33 01)</sup>

##### 33 01 10 54 Cleaning of Water Utility Piping <sup>(33 01 10)</sup>

See CSI section 33 01 30 41-0012 for cleaning of water lines.

##### 33 01 10 58 Disinfection of Water Utility Piping Systems <sup>(33 01 10)</sup>

##### 33 01 10 58-0001 Water Main Disinfection/Sterilization <sup>(33 01 10 58)</sup>

Note: Gas chlorination. Continuous or plug method.

33 01 10 58-0002	EA Setting Up And Removing Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method .....	993.06	
33 01 10 58-0003	EA Re-Set Up/Move Equipment For Water Main Disinfection/Sterilization, Gas Chlorination Method .....	496.53	
33 01 10 58-0004	LF Up To 4" Diameter Pipe Water Main Disinfection/Sterilization .....	0.37	
	For >250 To 500, Deduct	-0.02	
	For >500 To 1,000, Deduct	-0.04	
	For >1,000 To 2,000, Deduct	-0.06	
	For >2,000 To 5,000, Deduct	-0.07	
	For >5,000, Deduct	-0.09	
33 01 10 58-0005	LF 6" Diameter Pipe Water Main Disinfection/Sterilization .....	0.57	
	For >250 To 500, Deduct	-0.03	
	For >500 To 1,000, Deduct	-0.06	
	For >1,000 To 2,000, Deduct	-0.09	
	For >2,000 To 5,000, Deduct	-0.11	
	For >5,000, Deduct	-0.14	
33 01 10 58-0006	LF 8" Diameter Pipe Water Main Disinfection/Sterilization .....	0.75	
	For >250 To 500, Deduct	-0.04	
	For >500 To 1,000, Deduct	-0.08	
	For >1,000 To 2,000, Deduct	-0.11	
	For >2,000 To 5,000, Deduct	-0.15	
	For >5,000, Deduct	-0.19	
33 01 10 58-0007	LF 10" Diameter Pipe Water Main Disinfection/Sterilization .....	0.87	
	For >250 To 500, Deduct	-0.04	
	For >500 To 1,000, Deduct	-0.09	
	For >1,000 To 2,000, Deduct	-0.13	
	For >2,000 To 5,000, Deduct	-0.17	
	For >5,000, Deduct	-0.22	
33 01 10 58-0008	LF 12" Diameter Pipe Water Main Disinfection/Sterilization .....	1.14	
	For >250 To 500, Deduct	-0.06	
	For >500 To 1,000, Deduct	-0.11	
	For >1,000 To 2,000, Deduct	-0.17	
	For >2,000 To 5,000, Deduct	-0.23	
	For >5,000, Deduct	-0.29	
33 01 10 58-0009	LF >12" To 16" Diameter Pipe Water Main Disinfection/Sterilization .....	1.30	
	For >250 To 500, Deduct	-0.07	
	For >500 To 1,000, Deduct	-0.13	
	For >1,000 To 2,000, Deduct	-0.20	
	For >2,000 To 5,000, Deduct	-0.26	
	For >5,000, Deduct	-0.33	
33 01 10 58-0010	LF >16" To 24" Diameter Pipe Water Main Disinfection/Sterilization .....	1.49	
	For >250 To 500, Deduct	-0.07	
	For >500 To 1,000, Deduct	-0.15	
	For >1,000 To 2,000, Deduct	-0.22	
	For >2,000 To 5,000, Deduct	-0.30	
	For >5,000, Deduct	-0.37	
33 01 10 58-0011	LF >24" To 30" Diameter Pipe Water Main Disinfection/Sterilization .....	1.76	
	For >250 To 500, Deduct	-0.09	
	For >500 To 1,000, Deduct	-0.18	
	For >1,000 To 2,000, Deduct	-0.26	
	For >2,000 To 5,000, Deduct	-0.35	
	For >5,000, Deduct	-0.44	
33 01 10 58-0012	LF >30" To 42" Diameter Pipe Water Main Disinfection/Sterilization .....	2.26	
	For >250 To 500, Deduct	-0.11	
	For >500 To 1,000, Deduct	-0.23	
	For >1,000 To 2,000, Deduct	-0.34	
	For >2,000 To 5,000, Deduct	-0.45	
	For >5,000, Deduct	-0.57	
33 01 10 58-0013	LF >42" To 60" Diameter Pipe Water Main Disinfection/Sterilization .....	3.31	
	For >250 To 500, Deduct	-0.17	
	For >500 To 1,000, Deduct	-0.33	
	For >1,000 To 2,000, Deduct	-0.50	
	For >2,000 To 5,000, Deduct	-0.66	
	For >5,000, Deduct	-0.83	
33 01 10 58-0014	LF >60" Diameter Pipe Water Main Disinfection/Sterilization .....	4.59	
	For >250 To 500, Deduct	-0.23	
	For >500 To 1,000, Deduct	-0.46	
	For >1,000 To 2,000, Deduct	-0.69	
	For >2,000 To 5,000, Deduct	-0.92	
	For >5,000, Deduct	-1.15	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**33 01 10 71 Relining Water Utilities Pipelines** (33 01 10)

See CSI section 33 01 30 71-0000 for relining water pipelines.

33 01 10 71-0001	Relining Underground Water Pipelines	<small>(33 01 10 71)</small>	
	Note: Excludes costs for CCTV inspection, pipe cleaning, pavement; temporary and permanent, emergency after hours response for homeowners backups.		
33 01 10 71-0002	Relining Underground Water Pipelines Set-Up And Reinsertion	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0003	EA Initial Set Up And Final Equipment Removal For Relining Underground Water Pipelines		5,621.72
33 01 10 71-0004	EA Move And Reset Up At Different Access/Location		2,248.68
33 01 10 71-0005	Lining Pipe With Cement	<small>(33 01 10 71-0001)</small>	
33 01 10 71-0006	LF Up To 500', 4" Pipe, 1/8" Pipe Lining With Cement		76.15
	For 3/16" Thickness, Add		1.69
	For 1/4" Thickness, Add		3.38
33 01 10 71-0007	LF >500' To 1,000', 4" Pipe, 1/8" Pipe Lining With Cement		67.94
	For 3/16" Thickness, Add		1.69
	For 1/4" Thickness, Add		3.38
33 01 10 71-0008	LF >1,000' To 5,000', 4" Pipe, 1/8" Pipe Lining With Cement		56.93
	For 3/16" Thickness, Add		1.69
	For 1/4" Thickness, Add		3.38
33 01 10 71-0009	LF >5,000', 4" Pipe, 1/8" Pipe Lining With Cement		43.10
	For 3/16" Thickness, Add		1.69
	For 1/4" Thickness, Add		3.38
33 01 10 71-0010	LF Up To 500', 6" Pipe, 1/8" Pipe Lining With Cement		79.71
	For 3/16" Thickness, Add		2.53
	For 1/4" Thickness, Add		5.05
33 01 10 71-0011	LF >500' To 1,000', 6" Pipe, 1/8" Pipe Lining With Cement		71.18
	For 3/16" Thickness, Add		2.53
	For 1/4" Thickness, Add		5.05
33 01 10 71-0012	LF >1,000' To 5,000', 6" Pipe, 1/8" Pipe Lining With Cement		59.78
	For 3/16" Thickness, Add		2.53
	For 1/4" Thickness, Add		5.05
33 01 10 71-0013	LF >5,000', 6" Pipe, 1/8" Pipe Lining With Cement		45.78
	For 3/16" Thickness, Add		2.53
	For 1/4" Thickness, Add		5.05
33 01 10 71-0014	LF Up To 500', 8" Pipe, 1/8" Pipe Lining With Cement		83.14
	For 3/16" Thickness, Add		3.36
	For 1/4" Thickness, Add		6.72
33 01 10 71-0015	LF >500' To 1,000', 8" Pipe, 1/8" Pipe Lining With Cement		74.42
	For 3/16" Thickness, Add		3.36
	For 1/4" Thickness, Add		6.72
33 01 10 71-0016	LF >1,000' To 5,000', 8" Pipe, 1/8" Pipe Lining With Cement		62.65
	For 3/16" Thickness, Add		3.36
	For 1/4" Thickness, Add		6.72
33 01 10 71-0017	LF >5,000', 8" Pipe, 1/8" Pipe Lining With Cement		48.45
	For 3/16" Thickness, Add		3.36
	For 1/4" Thickness, Add		6.72
33 01 10 71-0018	LF Up To 500', 10" Pipe, 1/8" Pipe Lining With Cement		85.91
	For 3/16" Thickness, Add		4.22
	For 1/4" Thickness, Add		8.43
33 01 10 71-0019	LF >500' To 1,000', 10" Pipe, 1/8" Pipe Lining With Cement		77.06
	For 3/16" Thickness, Add		4.22
	For 1/4" Thickness, Add		8.43
33 01 10 71-0020	LF >1,000' To 5,000', 10" Pipe, 1/8" Pipe Lining With Cement		65.12
	For 3/16" Thickness, Add		4.22
	For 1/4" Thickness, Add		8.43
33 01 10 71-0021	LF >5,000', 10" Pipe, 1/8" Pipe Lining With Cement		51.17
	For 3/16" Thickness, Add		4.22
	For 1/4" Thickness, Add		8.43
33 01 10 71-0022	LF Up To 500', 12" Pipe, 1/8" Pipe Lining With Cement		93.18
	For 3/16" Thickness, Add		5.05
	For 1/4" Thickness, Add		10.10
33 01 10 71-0023	LF >500' To 1,000', 12" Pipe, 1/8" Pipe Lining With Cement		83.77
	For 3/16" Thickness, Add		5.05
	For 1/4" Thickness, Add		10.10
33 01 10 71-0024	LF >1,000' To 5,000', 12" Pipe, 1/8" Pipe Lining With Cement		71.06
	For 3/16" Thickness, Add		5.05
	For 1/4" Thickness, Add		10.10
33 01 10 71-0025	LF >5,000', 12" Pipe, 1/8" Pipe Lining With Cement		55.98
	For 3/16" Thickness, Add		5.05
	For 1/4" Thickness, Add		10.10
33 01 10 71-0026	LF Up To 500', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		102.45
	For 1/4" Thickness, Add		5.62
	For 5/16" Thickness, Add		11.24
33 01 10 71-0027	LF >500' To 1,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		92.69
	For 1/4" Thickness, Add		5.62
	For 5/16" Thickness, Add		11.24
33 01 10 71-0028	LF >1,000' To 5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		79.45
	For 1/4" Thickness, Add		5.62
	For 5/16" Thickness, Add		11.24
33 01 10 71-0029	LF >5,000', >12" To 16" Pipe, 3/16" Pipe Lining With Cement		65.00
	For 1/4" Thickness, Add		5.62
	For 5/16" Thickness, Add		11.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0030 LF Up To 500', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	108.32	
<i>For 1/4" Thickness, Add</i>	6.74	
<i>For 5/16" Thickness, Add</i>	13.47	
33 01 10 71-0031 LF >500' To 1,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	98.25	
<i>For 1/4" Thickness, Add</i>	6.74	
<i>For 5/16" Thickness, Add</i>	13.47	
33 01 10 71-0032 LF >1,000' To 5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	84.56	
<i>For 1/4" Thickness, Add</i>	6.74	
<i>For 5/16" Thickness, Add</i>	13.47	
33 01 10 71-0033 LF >5,000', >16" To 20" Pipe, 3/16" Pipe Lining With Cement.....	70.86	
<i>For 1/4" Thickness, Add</i>	6.74	
<i>For 5/16" Thickness, Add</i>	13.47	
33 01 10 71-0034 LF Up To 500', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	115.33	
<i>For 1/4" Thickness, Add</i>	7.86	
<i>For 5/16" Thickness, Add</i>	15.72	
33 01 10 71-0035 LF >500' To 1,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	104.91	
<i>For 1/4" Thickness, Add</i>	7.86	
<i>For 5/16" Thickness, Add</i>	15.72	
33 01 10 71-0036 LF >1,000' To 5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	90.57	
<i>For 1/4" Thickness, Add</i>	7.86	
<i>For 5/16" Thickness, Add</i>	15.72	
33 01 10 71-0037 LF >5,000', >20" To 22" Pipe, 3/16" Pipe Lining With Cement.....	77.75	
<i>For 1/4" Thickness, Add</i>	7.86	
<i>For 5/16" Thickness, Add</i>	15.72	
33 01 10 71-0038 LF Up To 500', 24" Pipe, 3/16" Pipe Lining With Cement .....	122.48	
<i>For 1/4" Thickness, Add</i>	8.99	
<i>For 5/16" Thickness, Add</i>	17.97	
33 01 10 71-0039 LF >500' To 1,000', 24" Pipe, 3/16" Pipe Lining With Cement .....	111.63	
<i>For 1/4" Thickness, Add</i>	8.99	
<i>For 5/16" Thickness, Add</i>	17.97	
33 01 10 71-0040 LF >1,000' To 5,000', 24" Pipe, 3/16" Pipe Lining With Cement .....	96.84	
<i>For 1/4" Thickness, Add</i>	8.99	
<i>For 5/16" Thickness, Add</i>	17.97	
33 01 10 71-0041 LF >5,000', 24" Pipe, 3/16" Pipe Lining With Cement .....	84.91	
<i>For 1/4" Thickness, Add</i>	8.99	
<i>For 5/16" Thickness, Add</i>	17.97	
33 01 10 71-0042 LF Up To 500', 30" Pipe, 3/16" Pipe Lining With Cement .....	132.85	
<i>For 1/4" Thickness, Add</i>	11.23	
<i>For 5/16" Thickness, Add</i>	22.46	
33 01 10 71-0043 LF >500' To 1,000', 30" Pipe, 3/16" Pipe Lining With Cement .....	121.39	
<i>For 1/4" Thickness, Add</i>	11.23	
<i>For 5/16" Thickness, Add</i>	22.46	
33 01 10 71-0044 LF >1,000' To 5,000', 30" Pipe, 3/16" Pipe Lining With Cement .....	105.71	
<i>For 1/4" Thickness, Add</i>	11.23	
<i>For 5/16" Thickness, Add</i>	22.46	
33 01 10 71-0045 LF >5,000', 30" Pipe, 3/16" Pipe Lining With Cement .....	93.64	
<i>For 1/4" Thickness, Add</i>	11.23	
<i>For 5/16" Thickness, Add</i>	22.46	
33 01 10 71-0046 LF Up To 500', 36" Pipe, 3/16" Pipe Lining With Cement .....	143.13	
<i>For 1/4" Thickness, Add</i>	13.48	
<i>For 5/16" Thickness, Add</i>	26.96	
33 01 10 71-0047 LF 500' To 1,000', 36" Pipe, 3/16" Pipe Lining With Cement .....	131.15	
<i>For 1/4" Thickness, Add</i>	13.48	
<i>For 5/16" Thickness, Add</i>	26.96	
33 01 10 71-0048 LF >1,000' To 5,000', 36" Pipe, 3/16" Pipe Lining With Cement .....	114.60	
<i>For 1/4" Thickness, Add</i>	13.48	
<i>For 5/16" Thickness, Add</i>	26.96	
33 01 10 71-0049 LF >5,000', 36" Pipe, 3/16" Pipe Lining With Cement .....	102.40	
<i>For 1/4" Thickness, Add</i>	13.48	
<i>For 5/16" Thickness, Add</i>	26.96	
33 01 10 71-0050 LF Up To 500', 42" Pipe, 1/4" Pipe Lining With Cement .....	182.99	
<i>For 3/8" Thickness, Add</i>	35.38	
<i>For 7/16" Thickness, Add</i>	53.06	
33 01 10 71-0051 LF >500' To 1,000', 42" Pipe, 1/4" Pipe Lining With Cement .....	169.93	
<i>For 3/8" Thickness, Add</i>	35.38	
<i>For 7/16" Thickness, Add</i>	53.06	
33 01 10 71-0052 LF >1,000' To 5,000', 42" Pipe, 1/4" Pipe Lining With Cement .....	151.95	
<i>For 3/8" Thickness, Add</i>	35.38	
<i>For 7/16" Thickness, Add</i>	53.06	
33 01 10 71-0053 LF >5,000', 42" Pipe, 1/4" Pipe Lining With Cement.....	139.38	
<i>For 3/8" Thickness, Add</i>	35.38	
<i>For 7/16" Thickness, Add</i>	53.06	
33 01 10 71-0054 LF Up To 500', 48" Pipe, 1/4" Pipe Lining With Cement .....	202.52	
<i>For 3/8" Thickness, Add</i>	40.43	
<i>For 7/16" Thickness, Add</i>	60.64	
33 01 10 71-0055 LF >500' To 1,000', 48" Pipe, 1/4" Pipe Lining With Cement .....	188.55	
<i>For 3/8" Thickness, Add</i>	40.43	
<i>For 7/16" Thickness, Add</i>	60.64	
33 01 10 71-0056 LF >1,000' To 5,000', 48" Pipe, 1/4" Pipe Lining With Cement .....	169.21	
<i>For 3/8" Thickness, Add</i>	40.43	
<i>For 7/16" Thickness, Add</i>	60.64	
33 01 10 71-0057 LF >5,000', 48" Pipe, 1/4" Pipe Lining With Cement.....	156.39	
<i>For 3/8" Thickness, Add</i>	40.43	
<i>For 7/16" Thickness, Add</i>	60.64	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 10 Operation and Maintenance of Water Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 10 71-0058 LF Up To 500', 54" Pipe, 1/4" Pipe Lining With Cement .....	214.89	
For 3/8" Thickness, Add	45.48	
For 7/16" Thickness, Add	68.22	
33 01 10 71-0059 LF >500' To 1,000', 54" Pipe, 1/4" Pipe Lining With Cement .....	200.63	
For 3/8" Thickness, Add	45.48	
For 7/16" Thickness, Add	68.22	
33 01 10 71-0060 LF >1,000' To 5,000', 54" Pipe, 1/4" Pipe Lining With Cement .....	180.83	
For 3/8" Thickness, Add	45.48	
For 7/16" Thickness, Add	68.22	
33 01 10 71-0061 LF >5,000', 54" Pipe, 1/4" Pipe Lining With Cement .....	168.51	
For 3/8" Thickness, Add	45.48	
For 7/16" Thickness, Add	68.22	
33 01 10 71-0062 LF Up To 500', 60" Pipe, 1/4" Pipe Lining With Cement .....	227.28	
For 3/8" Thickness, Add	50.55	
For 7/16" Thickness, Add	75.82	
33 01 10 71-0063 LF >500' To 1,000', 60" Pipe, 1/4" Pipe Lining With Cement .....	212.76	
For 3/8" Thickness, Add	50.55	
For 7/16" Thickness, Add	75.82	
33 01 10 71-0064 LF >1,000' To 5,000', 60" Pipe, 1/4" Pipe Lining With Cement .....	192.59	
For 3/8" Thickness, Add	50.55	
For 7/16" Thickness, Add	75.82	
33 01 10 71-0065 LF >5,000', 60" Pipe, 1/4" Pipe Lining With Cement .....	180.65	
For 3/8" Thickness, Add	50.55	
For 7/16" Thickness, Add	75.82	
33 01 10 71-0066 LF Up To 500', 66" Pipe, 1/4" Pipe Lining With Cement .....	240.02	
For 3/8" Thickness, Add	55.60	
For 7/16" Thickness, Add	83.39	
33 01 10 71-0067 LF >500' To 1,000', 66" Pipe, 1/4" Pipe Lining With Cement .....	225.19	
For 3/8" Thickness, Add	55.60	
For 7/16" Thickness, Add	83.39	
33 01 10 71-0068 LF >1,000' To 5,000', 66" Pipe, 1/4" Pipe Lining With Cement .....	204.71	
For 3/8" Thickness, Add	55.60	
For 7/16" Thickness, Add	83.39	
33 01 10 71-0069 LF >5,000', 66" Pipe, 1/4" Pipe Lining With Cement .....	193.64	
For 3/8" Thickness, Add	55.60	
For 7/16" Thickness, Add	83.39	
33 01 10 71-0070 LF Up To 500', 72" Pipe, 1/4" Pipe Lining With Cement .....	253.26	
For 3/8" Thickness, Add	60.65	
For 7/16" Thickness, Add	90.97	
33 01 10 71-0071 LF >500' To 1,000', 72" Pipe, 1/4" Pipe Lining With Cement .....	238.18	
For 3/8" Thickness, Add	60.65	
For 7/16" Thickness, Add	90.97	
33 01 10 71-0072 LF >1,000' To 5,000', 72" Pipe, 1/4" Pipe Lining With Cement .....	217.19	
For 3/8" Thickness, Add	60.65	
For 7/16" Thickness, Add	90.97	
33 01 10 71-0073 LF >5,000', 72" Pipe, 1/4" Pipe Lining With Cement .....	206.76	
For 3/8" Thickness, Add	60.65	
For 7/16" Thickness, Add	90.97	

**33 01 30 Operation and Maintenance of Sewer Utilities** (33 01)**33 01 30 11 Television Inspection Of Pipelines** (33 01 30)

Note: Rotating head color camera. Includes all log records and color video tape, DVD or CD.

**33 01 30 11-0001 Remote Visual Inspection (RVI) Of Pipe Interior And Culverts** (33 01 30 11)**33 01 30 11-0002 Video Camera Set-up** (33 01 30 11-0001)

33 01 30 11-0003 EA Initial Set Up For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert .....	965.07	
Note: A "push camera" is a straight view camera at the end of a rigid push rod for 1" to 12" diameter pipes for distances up to 300 feet.		
33 01 30 11-0004 EA Initial Set Up For "Crawler" Video Camera Inspection, 4" To 30" Diameter Pipe Or Culvert.....	1,930.13	
Note: Crawlers are generally remotely operated vehicles (ROVs) for longer distances (over 300') and for larger diameters (4" and larger).		
33 01 30 11-0005 EA Initial Set Up For "Crawler" Video Camera Inspection, >30" Diameter Pipe Or Culvert .....	2,895.20	
33 01 30 11-0006 EA Re-Set Up/Move For "Push Camera" Video Camera Inspection, 1" To 12" Diameter Pipe Or Culvert .....	482.53	
33 01 30 11-0007 EA Re-Set Up/Move For "Crawler" Video Camera Inspection, 4" And Larger Diameter Pipe Or Culvert .....	965.07	

**33 01 30 11-0008 Video Camera Planning And Analysis Inspection** (33 01 30 11-0001)

Note: For pipe interior and culverts.

33 01 30 11-0009 LF 4" To 6" Diameter Pipe Inspection, Planning/Analysis Phase .....	2.45	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.25	
For >1,000 To 5,000, Deduct	-0.61	
For >5,000, Deduct	-0.86	
33 01 30 11-0010 LF >6" To 12" Diameter Pipe Inspection, Planning/Analysis Phase.....	3.27	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.33	
For >1,000 To 5,000, Deduct	-0.82	
For >5,000, Deduct	-1.14	
33 01 30 11-0011 LF >12" To 21" Diameter Pipe Inspection, Planning/Analysis Phase .....	4.08	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.41	
For >1,000 To 5,000, Deduct	-1.02	
For >5,000, Deduct	-1.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0012 LF >21" To 30" Diameter Pipe Inspection, Planning/Analysis Phase.....	5.44	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.54	
For >1,000 To 5,000, Deduct	-1.36	
For >5,000, Deduct	-1.90	
33 01 30 11-0013 LF >30" To 42" Diameter Pipe Inspection, Planning/Analysis Phase.....	7.64	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.76	
For >1,000 To 5,000, Deduct	-1.91	
For >5,000, Deduct	-2.67	
33 01 30 11-0014 LF >42" To 60" Diameter Pipe Inspection, Planning/Analysis Phase.....	10.20	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.02	
For >1,000 To 5,000, Deduct	-2.55	
For >5,000, Deduct	-3.57	
33 01 30 11-0015 LF >60" To 72" Diameter Pipe Inspection, Planning/Analysis Phase.....	14.40	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.44	
For >1,000 To 5,000, Deduct	-3.60	
For >5,000, Deduct	-5.04	
33 01 30 11-0016 LF >72" To 84" Diameter Pipe Inspection, Planning/Analysis Phase.....	20.39	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.04	
For >1,000 To 5,000, Deduct	-5.10	
For >5,000, Deduct	-7.14	
<b>33 01 30 11-0017 Video Camera Pre-Rehab For Pipe Interior And Culverts</b> <small>(33 01 30 11-0001)</small>		
33 01 30 11-0018 LF 4" To 6" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....	3.62	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.36	
For >1,000 To 5,000, Deduct	-0.91	
For >5,000, Deduct	-1.27	
33 01 30 11-0019 LF >6" To 12" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....	4.82	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.48	
For >1,000 To 5,000, Deduct	-1.21	
For >5,000, Deduct	-1.69	
33 01 30 11-0020 LF >12" To 21" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....	6.04	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.60	
For >1,000 To 5,000, Deduct	-1.51	
For >5,000, Deduct	-2.11	
33 01 30 11-0021 LF >21" To 30" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....	8.04	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.80	
For >1,000 To 5,000, Deduct	-2.01	
For >5,000, Deduct	-2.81	
33 01 30 11-0022 LF >30" To 42" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....	11.31	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.13	
For >1,000 To 5,000, Deduct	-2.83	
For >5,000, Deduct	-3.96	
33 01 30 11-0023 LF >42" To 60" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....	15.07	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.51	
For >1,000 To 5,000, Deduct	-3.77	
For >5,000, Deduct	-5.27	
33 01 30 11-0024 LF >60" To 72" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....	21.29	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.13	
For >1,000 To 5,000, Deduct	-5.32	
For >5,000, Deduct	-7.45	
33 01 30 11-0025 LF >72" To 84" Diameter Pipe Inspection, Pre-Rehabilitation Phase .....	30.16	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-3.02	
For >1,000 To 5,000, Deduct	-7.54	
For >5,000, Deduct	-10.56	
<b>33 01 30 11-0026 Video Camera Post-Rehab For Pipe Interior And Culverts</b> <small>(33 01 30 11-0001)</small>		
33 01 30 11-0027 LF 4" To 6" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	2.58	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.26	
For >1,000 To 5,000, Deduct	-0.65	
For >5,000, Deduct	-0.90	
33 01 30 11-0028 LF >6" To 12" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	3.44	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.34	
For >1,000 To 5,000, Deduct	-0.86	
For >5,000, Deduct	-1.20	
33 01 30 11-0029 LF >12" To 21" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	4.31	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.43	
For >1,000 To 5,000, Deduct	-1.08	
For >5,000, Deduct	-1.51	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 11-0030 LF >21" To 30" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	5.74	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.57	
For >1,000 To 5,000, Deduct	-1.44	
For >5,000, Deduct	-2.01	
33 01 30 11-0031 LF >30" To 42" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	8.08	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-0.81	
For >1,000 To 5,000, Deduct	-2.02	
For >5,000, Deduct	-2.83	
33 01 30 11-0032 LF >42" To 60" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	10.77	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.08	
For >1,000 To 5,000, Deduct	-2.69	
For >5,000, Deduct	-3.77	
33 01 30 11-0033 LF >60" To 72" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	15.21	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-1.52	
For >1,000 To 5,000, Deduct	-3.80	
For >5,000, Deduct	-5.32	
33 01 30 11-0034 LF >72" To 84" Diameter Pipe Inspection, Post-Rehabilitation Phase.....	21.54	
Note: CCTV inspection of pipe interior.		
For >500 To 1,000, Deduct	-2.15	
For >1,000 To 5,000, Deduct	-5.39	
For >5,000, Deduct	-7.54	
<b>33 01 30 23 Pipe Bursting (33 01 30)</b>		
<b>33 01 30 23-0001 Pipe Bursting (33 01 30 23)</b>		
Note: The following section excludes costs for CCTV Inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups, bypass pumping, tree removal, service saddles, soil testing, and erosion control. See CSI section 31 13 13 00-0001 for tree removal.		
<b>33 01 30 23-0002 Manhole Chipping (33 01 30 23-0001)</b>		
Note: For use at manholes to open holes for pipe bursting head.		
33 01 30 23-0003 EA 6" To 15" Diameter, Manhole Chipping.....	414.77	
33 01 30 23-0004 EA >15" To 24" Diameter, Manhole Chipping.....	486.94	
33 01 30 23-0005 EA >24" To 36" Diameter, Manhole Chipping.....	608.64	
<b>33 01 30 23-0006 Pipe Bursting (33 01 30 23-0001)</b>		
Note: Includes equipment to burst or upsize existing clay, cast iron, concrete, PVC or ductile iron pipe; pipe bursting royalty fee. Excludes CCTV inspection, PE piping, excavation of pit, backfill, compaction, final grade, seed and sod restoration, recovery of bursting head disabled by obstruction, either undocumented or unrecognizable during CCTV inspection. See CSI section 33 01 30 23-0051 for PE piping.		
<b>33 01 30 23-0007 Pipe Bursting Equipment Set-up (33 01 30 23-0006)</b>		
33 01 30 23-0008 EA Initial Set-up And Final Equipment Removal For Up To 12" Underground Pipelines For Pipe Bursting Equipment .....	8,070.06	
33 01 30 23-0009 EA Initial Set-up And Final Equipment Removal For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment .....	12,105.10	
33 01 30 23-0010 EA Initial Set-up And Final Equipment Removal For > 24" To 36" Underground Pipelines For Pipe Bursting Equipment .....	20,175.16	
33 01 30 23-0011 EA Move And Reset Up At Different Access/Location For Up To 12" Underground Pipelines For Pipe Bursting Equipment .....	3,026.28	
33 01 30 23-0012 EA Move And Reset Up At Different Access/Location For > 12" To 24" Underground Pipelines For Pipe Bursting Equipment .....	4,539.41	
33 01 30 23-0013 EA Move And Reset Up At Different Access/Location For > 2" To 36" Underground Pipelines For Pipe Bursting Equipment .....	7,565.68	
33 01 30 23-0014 EA Set Up/Move Pipe Bursting Equipment For Laterals.....	2,017.52	
<b>33 01 30 23-0015 Pneumatic Head Pipe Bursting (33 01 30 23-0006)</b>		
33 01 30 23-0016 LF 4" Diameter, Pneumatic Head Pipe Bursting .....	27.96	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.29	
For >150 To 200, Add	1.38	
For >100 To 150, Add	2.75	
For >75 To 100, Add	4.13	
For >50 To 75, Add	5.50	
For >25 To 50, Add	7.34	
For Up To 25, Add	10.09	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.29	
For Bursting Ductile Iron Pipe, Add	7.50	
33 01 30 23-0017 LF 6" Diameter, Pneumatic Head Pipe Bursting .....	32.36	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.84	
For >150 To 200, Add	1.71	
For >100 To 150, Add	3.41	
For >75 To 100, Add	5.12	
For >50 To 75, Add	6.82	
For >25 To 50, Add	9.10	
For Up To 25, Add	12.51	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.84	
For Bursting Ductile Iron Pipe, Add	8.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0018 LF 8" Diameter, Pneumatic Head Pipe Bursting .....	36.50	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.36	
For >150 To 200, Add	2.02	
For >100 To 150, Add	4.03	
For >75 To 100, Add	6.05	
For >50 To 75, Add	8.06	
For >25 To 50, Add	10.75	
For Up To 25, Add	14.78	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.36	
For Bursting Ductile Iron Pipe, Add	10.31	
33 01 30 23-0019 LF 10" Diameter, Pneumatic Head Pipe Bursting .....	41.83	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.03	
For >150 To 200, Add	2.42	
For >100 To 150, Add	4.83	
For >75 To 100, Add	7.25	
For >50 To 75, Add	9.66	
For >25 To 50, Add	12.88	
For Up To 25, Add	17.72	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.03	
For Bursting Ductile Iron Pipe, Add	12.07	
33 01 30 23-0020 LF 12" Diameter, Pneumatic Head Pipe Bursting .....	47.98	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.80	
For >150 To 200, Add	2.88	
For >100 To 150, Add	5.75	
For >75 To 100, Add	8.63	
For >50 To 75, Add	11.51	
For >25 To 50, Add	15.34	
For Up To 25, Add	21.10	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.80	
For Bursting Ductile Iron Pipe, Add	14.10	
33 01 30 23-0021 LF 15" Diameter, Pneumatic Head Pipe Bursting .....	52.89	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.95	
For >150 To 200, Add	2.97	
For >100 To 150, Add	5.94	
For >75 To 100, Add	8.91	
For >50 To 75, Add	11.88	
For >25 To 50, Add	15.84	
For Up To 25, Add	21.77	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.95	
For Bursting Ductile Iron Pipe, Add	15.06	
33 01 30 23-0022 LF 18" Diameter, Pneumatic Head Pipe Bursting .....	59.06	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.72	
For >150 To 200, Add	3.43	
For >100 To 150, Add	6.86	
For >75 To 100, Add	10.30	
For >50 To 75, Add	13.73	
For >25 To 50, Add	18.30	
For Up To 25, Add	25.17	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.72	
For Bursting Ductile Iron Pipe, Add	17.10	
33 01 30 23-0023 LF 21"/22" Diameter, Pneumatic Head Pipe Bursting .....	74.40	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.81	
For >150 To 200, Add	4.08	
For >100 To 150, Add	8.17	
For >75 To 100, Add	12.25	
For >50 To 75, Add	16.33	
For >25 To 50, Add	21.78	
For Up To 25, Add	29.94	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.81	
For Bursting Ductile Iron Pipe, Add	20.96	
33 01 30 23-0024 LF 24" Diameter, Pneumatic Head Pipe Bursting .....	91.90	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.99	
For >150 To 200, Add	5.40	
For >100 To 150, Add	10.79	
For >75 To 100, Add	16.19	
For >50 To 75, Add	21.58	
For >25 To 50, Add	28.78	
For Up To 25, Add	39.57	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.99	
For Bursting Ductile Iron Pipe, Add	26.73	
33 01 30 23-0025 LF 30" Diameter, Pneumatic Head Pipe Bursting .....	101.23	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	9.33	
For >150 To 200, Add	5.60	
For >100 To 150, Add	11.19	
For >75 To 100, Add	16.79	
For >50 To 75, Add	22.39	
For >25 To 50, Add	29.85	
For Up To 25, Add	41.05	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.33	
For Bursting Ductile Iron Pipe, Add	28.62	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0026 LF 36" Diameter, Pneumatic Head Pipe Bursting .....	130.79	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	13.02	
For >150 To 200, Add	7.81	
For >100 To 150, Add	15.63	
For >75 To 100, Add	23.44	
For >50 To 75, Add	31.26	
For >25 To 50, Add	41.68	
For Up To 25, Add	57.30	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	13.02	
For Bursting Ductile Iron Pipe, Add	38.37	
<b>33 01 30 23-0027 Static Head Pipe Bursting (33 01 30 23-0006)</b>		
33 01 30 23-0028 LF 4" Diameter, Static Head Pipe Bursting .....	36.88	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.41	
For >150 To 200, Add	2.04	
For >100 To 150, Add	4.09	
For >75 To 100, Add	6.13	
For >50 To 75, Add	8.18	
For >25 To 50, Add	10.90	
For Up To 25, Add	14.99	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.41	
For Bursting Ductile Iron Pipe, Add	10.44	
33 01 30 23-0029 LF 6" Diameter, Static Head Pipe Bursting .....	41.32	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.96	
For >150 To 200, Add	2.38	
For >100 To 150, Add	4.76	
For >75 To 100, Add	7.13	
For >50 To 75, Add	9.51	
For >25 To 50, Add	12.68	
For Up To 25, Add	17.44	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.96	
For Bursting Ductile Iron Pipe, Add	11.90	
33 01 30 23-0030 LF 8" Diameter, Static Head Pipe Bursting .....	46.44	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.60	
For >150 To 200, Add	2.76	
For >100 To 150, Add	5.52	
For >75 To 100, Add	8.28	
For >50 To 75, Add	11.05	
For >25 To 50, Add	14.73	
For Up To 25, Add	20.25	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.60	
For Bursting Ductile Iron Pipe, Add	13.59	
33 01 30 23-0031 LF 10" Diameter, Static Head Pipe Bursting .....	53.11	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.44	
For >150 To 200, Add	3.26	
For >100 To 150, Add	6.52	
For >75 To 100, Add	9.79	
For >50 To 75, Add	13.05	
For >25 To 50, Add	17.40	
For Up To 25, Add	23.92	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.44	
For Bursting Ductile Iron Pipe, Add	15.79	
33 01 30 23-0032 LF 12" Diameter, Static Head Pipe Bursting .....	60.80	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.40	
For >150 To 200, Add	3.84	
For >100 To 150, Add	7.68	
For >75 To 100, Add	11.52	
For >50 To 75, Add	15.35	
For >25 To 50, Add	20.47	
For Up To 25, Add	28.15	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.40	
For Bursting Ductile Iron Pipe, Add	18.33	
33 01 30 23-0033 LF 15" Diameter, Static Head Pipe Bursting .....	69.45	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.02	
For >150 To 200, Add	4.21	
For >100 To 150, Add	8.42	
For >75 To 100, Add	12.63	
For >50 To 75, Add	16.85	
For >25 To 50, Add	22.46	
For Up To 25, Add	30.88	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	7.02	
For Bursting Ductile Iron Pipe, Add	20.52	
33 01 30 23-0034 LF 18" Diameter, Static Head Pipe Bursting .....	76.85	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	7.94	
For >150 To 200, Add	4.77	
For >100 To 150, Add	9.53	
For >75 To 100, Add	14.30	
For >50 To 75, Add	19.07	
For >25 To 50, Add	25.42	
For Up To 25, Add	34.95	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	7.94	
For Bursting Ductile Iron Pipe, Add	22.97	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0035 LF 21" 22" Diameter, Static Head Pipe Bursting .....	96.05	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	9.51	
For >150 To 200, Add	5.71	
For >100 To 150, Add	11.41	
For >75 To 100, Add	17.12	
For >50 To 75, Add	22.83	
For >25 To 50, Add	30.44	
For Up To 25, Add	41.85	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	9.51	
For Bursting Ductile Iron Pipe, Add	28.10	
33 01 30 23-0036 LF 24" Diameter, Static Head Pipe Bursting .....	124.27	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	13.04	
For >150 To 200, Add	7.82	
For >100 To 150, Add	15.65	
For >75 To 100, Add	23.47	
For >50 To 75, Add	31.29	
For >25 To 50, Add	41.72	
For Up To 25, Add	57.37	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	13.04	
For Bursting Ductile Iron Pipe, Add	37.42	
33 01 30 23-0037 LF 30" Diameter, Static Head Pipe Bursting .....	151.24	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	15.58	
For >150 To 200, Add	9.35	
For >100 To 150, Add	18.70	
For >75 To 100, Add	28.04	
For >50 To 75, Add	37.39	
For >25 To 50, Add	49.86	
For Up To 25, Add	68.55	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	15.58	
For Bursting Ductile Iron Pipe, Add	45.12	
33 01 30 23-0038 LF 36" Diameter, Static Head Pipe Bursting .....	182.85	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	19.53	
For >150 To 200, Add	11.72	
For >100 To 150, Add	23.44	
For >75 To 100, Add	35.16	
For >50 To 75, Add	46.88	
For >25 To 50, Add	62.50	
For Up To 25, Add	85.94	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	19.53	
For Bursting Ductile Iron Pipe, Add	55.55	
<b>33 01 30 23-0039 Hydraulic Head Pipe Bursting</b> <small>(33 01 30 23-0006)</small>		
33 01 30 23-0040 LF 4" Diameter, Hydraulic Head Pipe Bursting .....	32.04	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	2.80	
For >150 To 200, Add	1.68	
For >100 To 150, Add	3.36	
For >75 To 100, Add	5.04	
For >50 To 75, Add	6.73	
For >25 To 50, Add	8.97	
For Up To 25, Add	12.33	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	2.80	
For Bursting Ductile Iron Pipe, Add	8.84	
33 01 30 23-0041 LF 6" Diameter, Hydraulic Head Pipe Bursting .....	35.97	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.29	
For >150 To 200, Add	1.98	
For >100 To 150, Add	3.95	
For >75 To 100, Add	5.93	
For >50 To 75, Add	7.91	
For >25 To 50, Add	10.54	
For Up To 25, Add	14.49	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.29	
For Bursting Ductile Iron Pipe, Add	10.14	
33 01 30 23-0042 LF 8" Diameter, Hydraulic Head Pipe Bursting .....	40.48	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	3.86	
For >150 To 200, Add	2.31	
For >100 To 150, Add	4.63	
For >75 To 100, Add	6.94	
For >50 To 75, Add	9.26	
For >25 To 50, Add	12.34	
For Up To 25, Add	16.97	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	3.86	
For Bursting Ductile Iron Pipe, Add	11.63	
33 01 30 23-0043 LF 10" Diameter, Hydraulic Head Pipe Bursting .....	46.34	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	4.59	
For >150 To 200, Add	2.75	
For >100 To 150, Add	5.51	
For >75 To 100, Add	8.26	
For >50 To 75, Add	11.02	
For >25 To 50, Add	14.69	
For Up To 25, Add	20.20	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	4.59	
For Bursting Ductile Iron Pipe, Add	13.56	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0044 LF 12" Diameter, Hydraulic Head Pipe Bursting .....	53.11	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.44	
For >150 To 200, Add	3.26	
For >100 To 150, Add	6.52	
For >75 To 100, Add	9.79	
For >50 To 75, Add	13.05	
For >25 To 50, Add	17.40	
For Up To 25, Add	23.92	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.44	
For Bursting Ductile Iron Pipe, Add	15.79	
33 01 30 23-0045 LF 15" Diameter, Hydraulic Head Pipe Bursting .....	60.48	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	5.90	
For >150 To 200, Add	3.54	
For >100 To 150, Add	7.08	
For >75 To 100, Add	10.62	
For >50 To 75, Add	14.15	
For >25 To 50, Add	18.87	
For Up To 25, Add	25.95	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	5.90	
For Bursting Ductile Iron Pipe, Add	17.56	
33 01 30 23-0046 LF 18" Diameter, Hydraulic Head Pipe Bursting .....	67.74	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	6.81	
For >150 To 200, Add	4.08	
For >100 To 150, Add	8.17	
For >75 To 100, Add	12.25	
For >50 To 75, Add	16.33	
For >25 To 50, Add	21.78	
For Up To 25, Add	29.94	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	6.81	
For Bursting Ductile Iron Pipe, Add	19.96	
33 01 30 23-0047 LF 21"/22" Diameter, Hydraulic Head Pipe Bursting .....	85.16	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	8.15	
For >150 To 200, Add	4.89	
For >100 To 150, Add	9.78	
For >75 To 100, Add	14.67	
For >50 To 75, Add	19.56	
For >25 To 50, Add	26.08	
For Up To 25, Add	35.86	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	8.15	
For Bursting Ductile Iron Pipe, Add	24.51	
33 01 30 23-0048 LF 24" Diameter, Hydraulic Head Pipe Bursting .....	111.09	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	11.39	
For >150 To 200, Add	6.83	
For >100 To 150, Add	13.67	
For >75 To 100, Add	20.50	
For >50 To 75, Add	27.34	
For >25 To 50, Add	36.45	
For Up To 25, Add	50.12	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	11.39	
For Bursting Ductile Iron Pipe, Add	33.07	
33 01 30 23-0049 LF 30" Diameter, Hydraulic Head Pipe Bursting .....	136.47	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	13.73	
For >150 To 200, Add	8.24	
For >100 To 150, Add	16.48	
For >75 To 100, Add	24.72	
For >50 To 75, Add	32.96	
For >25 To 50, Add	43.95	
For Up To 25, Add	60.43	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	13.73	
For Bursting Ductile Iron Pipe, Add	40.25	
33 01 30 23-0050 LF 36" Diameter, Hydraulic Head Pipe Bursting .....	166.53	
For The Increase In Pipe Diameter By 1 Pipe Size, Add	17.49	
For >150 To 200, Add	10.49	
For >100 To 150, Add	20.99	
For >75 To 100, Add	31.48	
For >50 To 75, Add	41.98	
For >25 To 50, Add	55.97	
For Up To 25, Add	76.96	
For Bursting Polyvinyl Chloride (PVC) Pipe, Add	17.49	
For Bursting Ductile Iron Pipe, Add	50.17	
33 01 30 23-0051 Pipe Lining (33 01 30 23-0001)		
33 01 30 23-0052 Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining (33 01 30 23-0051)		
Note: Per each joint.		
33 01 30 23-0053 EA 4" To 15", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining .....	130.83	
33 01 30 23-0054 EA >15" To 24", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining .....	150.10	
33 01 30 23-0055 EA >24" To 36", Pipe Fusion For High Density Polyethylene (HDPE) Pipe Lining .....	179.02	
33 01 30 23-0056 High Density Polyethylene (HDPE) Pipe Lining, DR 17 (33 01 30 23-0051)		
Note: Material to be installed behind bursting head. Excludes pipe joint fusion. See CSI section 33 01 30 23-0052 for pipe joint fusion.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	23-0057	LF	4" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	5.12	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-0.63	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	1.70	
			<i>For White Interior Pipe, Add</i>	1.15	
			<i>For Gray Interior Pipe, Add</i>	0.87	
33 01 30	23-0058	LF	5" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	6.97	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-0.95	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	2.59	
			<i>For White Interior Pipe, Add</i>	1.75	
			<i>For Gray Interior Pipe, Add</i>	1.32	
33 01 30	23-0059	LF	6" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	9.26	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.36	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	3.69	
			<i>For White Interior Pipe, Add</i>	2.49	
			<i>For Gray Interior Pipe, Add</i>	1.89	
33 01 30	23-0060	LF	7.125" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	10.48	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-1.57	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	4.26	
			<i>For White Interior Pipe, Add</i>	2.87	
			<i>For Gray Interior Pipe, Add</i>	2.18	
33 01 30	23-0061	LF	8" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	14.55	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-2.29	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	6.23	
			<i>For White Interior Pipe, Add</i>	4.20	
			<i>For Gray Interior Pipe, Add</i>	3.19	
33 01 30	23-0062	LF	10" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	21.65	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-3.56	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	9.68	
			<i>For White Interior Pipe, Add</i>	6.53	
			<i>For Gray Interior Pipe, Add</i>	4.95	
33 01 30	23-0063	LF	12" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	29.75	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-5.01	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	13.61	
			<i>For White Interior Pipe, Add</i>	9.19	
			<i>For Gray Interior Pipe, Add</i>	6.96	
33 01 30	23-0064	LF	13.375" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	32.60	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-5.52	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	14.98	
			<i>For White Interior Pipe, Add</i>	10.11	
			<i>For Gray Interior Pipe, Add</i>	7.66	
33 01 30	23-0065	LF	14" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	35.61	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-6.04	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	16.42	
			<i>For White Interior Pipe, Add</i>	11.08	
			<i>For Gray Interior Pipe, Add</i>	8.40	
33 01 30	23-0066	LF	16" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	46.00	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-7.89	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	21.44	
			<i>For White Interior Pipe, Add</i>	14.47	
			<i>For Gray Interior Pipe, Add</i>	10.96	
33 01 30	23-0067	LF	18" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	57.83	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-10.00	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	27.16	
			<i>For White Interior Pipe, Add</i>	18.33	
			<i>For Gray Interior Pipe, Add</i>	13.89	
33 01 30	23-0068	LF	20" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	71.00	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-12.34	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	33.52	
			<i>For White Interior Pipe, Add</i>	22.62	
			<i>For Gray Interior Pipe, Add</i>	17.14	
33 01 30	23-0069	LF	22" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	85.58	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-14.93	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	40.55	
			<i>For White Interior Pipe, Add</i>	27.37	
			<i>For Gray Interior Pipe, Add</i>	20.73	
33 01 30	23-0070	LF	24" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	101.60	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-17.77	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	48.28	
			<i>For White Interior Pipe, Add</i>	32.58	
			<i>For Gray Interior Pipe, Add</i>	24.68	
33 01 30	23-0071	LF	26" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	118.92	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-20.84	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	56.62	
			<i>For White Interior Pipe, Add</i>	38.21	
			<i>For Gray Interior Pipe, Add</i>	28.95	
33 01 30	23-0072	LF	28" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	137.76	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-24.18	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	65.68	
			<i>For White Interior Pipe, Add</i>	44.33	
			<i>For Gray Interior Pipe, Add</i>	33.58	
33 01 30	23-0073	LF	30" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	158.02	
			<i>For DR 21 Polyethylene Pipe, 80 PSI, Deduct</i>	-27.76	
			<i>For DR 11 Polyethylene Pipe, 160 PSI, Add</i>	75.40	
			<i>For White Interior Pipe, Add</i>	50.89	
			<i>For Gray Interior Pipe, Add</i>	38.55	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 23-0074 LF 32" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	179.72	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-31.57	
For DR 11 Polyethylene Pipe, 160 PSI, Add	85.78	
For White Interior Pipe, Add	57.89	
For Gray Interior Pipe, Add	43.85	
33 01 30 23-0075 LF 34" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	221.36	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-38.96	
For DR 11 Polyethylene Pipe, 160 PSI, Add	105.84	
For White Interior Pipe, Add	71.43	
For Gray Interior Pipe, Add	54.11	
33 01 30 23-0076 LF 36" DR 17 Polyethylene Pipe, 100 PSI, For Use In Pipe Lining.....	227.77	
For DR 21 Polyethylene Pipe, 80 PSI, Deduct	-39.97	
For DR 11 Polyethylene Pipe, 160 PSI, Add	108.57	
For White Interior Pipe, Add	73.27	
For Gray Interior Pipe, Add	55.51	
<b>33 01 30 23-0077 Re-Connection Of Non-Renewed Laterals (33 01 30 23-0001)</b>		
Note: Excludes earthwork excavation and backfill		
<b>33 01 30 23-0078 Re-Connection Of Laterals; Insert-A-Tee (33 01 30 23-0077)</b>		
Note: Includes cutting hole in pipe and excavation vacuum truck for exterior pipe lateral reconnection. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling, and back-fill material. See CSI section 01 74 19 00-0039 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0079 EA Re-Connection Of Non-Renewed Lateral, 6 To 8" Main With 4" Inserta-Tee.....	1,328.73	
For No Excavation, Deduct	-860.73	
33 01 30 23-0080 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 6" Inserta-Tee.....	1,491.44	
For No Excavation, Deduct	-968.32	
33 01 30 23-0081 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 4" Inserta-Tee.....	1,574.30	
For No Excavation, Deduct	-1,022.11	
33 01 30 23-0082 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 6" Inserta-Tee.....	1,657.15	
For No Excavation, Deduct	-1,075.91	
33 01 30 23-0083 EA Re-Connection Of Non-Renewed Lateral, 10" To 18" Main With 8" Inserta-Tee.....	1,797.08	
For No Excavation, Deduct	-1,129.70	
33 01 30 23-0084 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 4" Inserta-Tee.....	1,678.18	
For No Excavation, Deduct	-1,075.91	
33 01 30 23-0085 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 6" Inserta-Tee.....	1,764.04	
For No Excavation, Deduct	-1,129.70	
33 01 30 23-0086 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 8" Inserta-Tee.....	1,891.95	
For No Excavation, Deduct	-1,183.50	
33 01 30 23-0087 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 10" Inserta-Tee.....	2,224.11	
For No Excavation, Deduct	-1,237.29	
33 01 30 23-0088 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 12" Inserta-Tee.....	2,343.02	
For No Excavation, Deduct	-1,291.09	
33 01 30 23-0089 EA Re-Connection Of Non-Renewed Lateral, 20" To 36" Main With 15" Inserta-Tee.....	2,858.38	
For No Excavation, Deduct	-1,344.88	
<b>33 01 30 23-0090 Re-Connection Of Laterals; Saddle Style (33 01 30 23-0077)</b>		
Note: Includes excavation vacuum truck for exterior pipe lateral reconnection, fusion to high density polyethylene (HDPE) pipe for lateral. Excludes asphalt removal, asphalt replacement pavement both temporary and permanent, hauling and back-fill material. See CSI section 01 74 19 00-0039 for hauling, 31 05 16 00-0001 for back-fill material.		
33 01 30 23-0091 EA Re-Connection Of Non-Renewed Lateral, 6" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	2,844.74	
For No Excavation, Deduct	-960.63	
For Strap-On Saddle Type Instead Of Fusion Weld	-245.73	
33 01 30 23-0092 EA Re-Connection Of Non-Renewed Lateral, 8" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	3,132.38	
For No Excavation, Deduct	-999.06	
For Strap-On Saddle Type Instead Of Fusion Weld	-229.49	
33 01 30 23-0093 EA Re-Connection Of Non-Renewed Lateral, 10" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,318.34	
For No Excavation, Deduct	-1,037.49	
For Strap-On Saddle Type Instead Of Fusion Weld	-78.49	
33 01 30 23-0094 EA Re-Connection Of Non-Renewed Lateral, 12" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	4,548.88	
For No Excavation, Deduct	-1,152.76	
For Strap-On Saddle Type Instead Of Fusion Weld	-124.60	
33 01 30 23-0095 EA Re-Connection Of Non-Renewed Lateral, 14" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	7,940.82	
For No Excavation, Deduct	-1,229.61	
For Strap-On Saddle Type Instead Of Fusion Weld	330.40	
33 01 30 23-0096 EA Re-Connection Of Non-Renewed Lateral, 16" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	8,609.31	
For No Excavation, Deduct	-1,364.10	
For Strap-On Saddle Type Instead Of Fusion Weld	336.53	
33 01 30 23-0097 EA Re-Connection Of Non-Renewed Lateral, 18" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	11,537.54	
For No Excavation, Deduct	-1,498.59	
For Strap-On Saddle Type Instead Of Fusion Weld	681.62	
33 01 30 23-0098 EA Re-Connection Of Non-Renewed Lateral, 20" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	11,021.78	
For No Excavation, Deduct	-1,690.72	
For Strap-On Saddle Type Instead Of Fusion Weld	469.77	
33 01 30 23-0099 EA Re-Connection Of Non-Renewed Lateral, 24" Main With 4" Or 6" Saddle Tap (Mueller H-615).....	13,381.70	
For No Excavation, Deduct	-1,998.11	
For Strap-On Saddle Type Instead Of Fusion Weld	608.58	

**33 01 30 41 Cleaning of Sewers (33 01 30)****33 01 30 41-0001 Pipe Line Cleaning And Flushing (33 01 30 41)**

Note: Includes flushing. Owner provided water.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 01 30 41-0002</b> <b>Pipe Line Cleaning</b> <small>(33 01 30 41-0001)</small> Note: Includes removal of all debris/waste. Excludes disposal.		
<b>33 01 30 41-0003</b> <b>Hydro Jet Set-up And Reinsertion</b> <small>(33 01 30 41-0002)</small> Note: Includes mobilization delivery, set-up, clean-up after use and return.		
33 01 30 41-0004    EA    Initial Set Up And Final Equipment Removal For Up To 8" Jet Cleaning .....	1,364.37	
33 01 30 41-0005    EA    Initial Set Up And Final Equipment Removal For >8" To 12" Jet Cleaning .....	2,046.57	
33 01 30 41-0006    EA    Initial Set Up And Final Equipment Removal For >12" To 30" Jet Cleaning .....	2,728.75	
33 01 30 41-0007    EA    Initial Set Up And Final Equipment Removal For >30" Jet Cleaning .....	3,638.33	
33 01 30 41-0008    EA    Move And Reset Up At Different Access/Location For Up To 8" Jet Cleaning .....	341.10	
33 01 30 41-0009    EA    Move And Reset Up At Different Access/Location For >8" To 12" Jet Cleaning .....	511.64	
33 01 30 41-0010    EA    Move And Reset Up At Different Access/Location For >12" To 30" Jet Cleaning .....	682.19	
33 01 30 41-0011    EA    Move And Reset Up At Different Access/Location For >30" Jet Cleaning .....	852.73	
 <b>33 01 30 41-0012</b> <b>Hydro Jet Cleaning Of Sewer And Water Pipelines</b> <small>(33 01 30 41-0002)</small>		
33 01 30 41-0013    LF    Up To 4" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	3.66	
For >250 To 500, Deduct	-0.18	
For >500 To 1,000, Deduct	-0.37	
For >1,000 To 2,000, Deduct	-0.55	
For >2,000 To 5,000, Deduct	-0.73	
For >5,000, Deduct	-0.92	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	2.75	
33 01 30 41-0014    LF    6" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	4.21	
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.42	
For >1,000 To 2,000, Deduct	-0.63	
For >2,000 To 5,000, Deduct	-0.84	
For >5,000, Deduct	-1.05	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.16	
33 01 30 41-0015    LF    8" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	4.94	
For >250 To 500, Deduct	-0.25	
For >500 To 1,000, Deduct	-0.49	
For >1,000 To 2,000, Deduct	-0.74	
For >2,000 To 5,000, Deduct	-0.99	
For >5,000, Deduct	-1.24	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	3.71	
33 01 30 41-0016    LF    10" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	6.11	
For >250 To 500, Deduct	-0.31	
For >500 To 1,000, Deduct	-0.61	
For >1,000 To 2,000, Deduct	-0.92	
For >2,000 To 5,000, Deduct	-1.22	
For >5,000, Deduct	-1.53	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	4.58	
33 01 30 41-0017    LF    12" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	6.93	
For >250 To 500, Deduct	-0.35	
For >500 To 1,000, Deduct	-0.69	
For >1,000 To 2,000, Deduct	-1.04	
For >2,000 To 5,000, Deduct	-1.39	
For >5,000, Deduct	-1.73	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	5.20	
33 01 30 41-0018    LF    >12" To 16" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	8.01	
For >250 To 500, Deduct	-0.40	
For >500 To 1,000, Deduct	-0.80	
For >1,000 To 2,000, Deduct	-1.20	
For >2,000 To 5,000, Deduct	-1.60	
For >5,000, Deduct	-2.00	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	6.01	
33 01 30 41-0019    LF    >16" To 24" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	9.63	
For >250 To 500, Deduct	-0.48	
For >500 To 1,000, Deduct	-0.96	
For >1,000 To 2,000, Deduct	-1.44	
For >2,000 To 5,000, Deduct	-1.93	
For >5,000, Deduct	-2.41	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	7.22	
33 01 30 41-0020    LF    >24" To 30" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	10.93	
For >250 To 500, Deduct	-0.55	
For >500 To 1,000, Deduct	-1.09	
For >1,000 To 2,000, Deduct	-1.64	
For >2,000 To 5,000, Deduct	-2.19	
For >5,000, Deduct	-2.73	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	8.20	
33 01 30 41-0021    LF    >30" To 42" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	12.92	
For >250 To 500, Deduct	-0.65	
For >500 To 1,000, Deduct	-1.29	
For >1,000 To 2,000, Deduct	-1.94	
For >2,000 To 5,000, Deduct	-2.58	
For >5,000, Deduct	-3.23	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	9.69	
33 01 30 41-0022    LF    >42" To 60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	16.24	
For >250 To 500, Deduct	-0.81	
For >500 To 1,000, Deduct	-1.62	
For >1,000 To 2,000, Deduct	-2.44	
For >2,000 To 5,000, Deduct	-3.25	
For >5,000, Deduct	-4.06	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	12.18	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0023 LF >60" Diameter Pipe Line Cleaning, Hydro Jetting Method, Light Cleaning - 3 Passes .....	18.95	
For>250 To 500, Deduct	-0.95	
For>500 To 1,000, Deduct	-1.90	
For>1,000 To 2,000, Deduct	-2.84	
For>2,000 To 5,000, Deduct	-3.79	
For>5,000, Deduct	-4.74	
For Heavy Cleaning, >4 Passes (Includes Attached Mechanical Device), Add	14.21	
<b>33 01 30 41-0024 Flushing Of Storm Water Pipelines</b> (33 01 30 41-0002)		
Note: To remove silt and small debris from storm drainage pipes. Excludes disposal.		
33 01 30 41-0025 LF 12" To 16" Diameter Pipe Line Flushing .....	1.37	
For>250 To 500, Deduct	-0.07	
For>500 To 1,000, Deduct	-0.14	
For>1,000 To 2,000, Deduct	-0.21	
For>2,000 To 5,000, Deduct	-0.27	
For>5,000, Deduct	-0.34	
33 01 30 41-0026 LF >16" To 24" Diameter Pipe Line Flushing .....	1.57	
For>250 To 500, Deduct	-0.08	
For>500 To 1,000, Deduct	-0.16	
For>1,000 To 2,000, Deduct	-0.24	
For>2,000 To 5,000, Deduct	-0.31	
For>5,000, Deduct	-0.39	
33 01 30 41-0027 LF >24" To 30" Diameter Pipe Line Flushing .....	1.84	
For>250 To 500, Deduct	-0.09	
For>500 To 1,000, Deduct	-0.18	
For>1,000 To 2,000, Deduct	-0.28	
For>2,000 To 5,000, Deduct	-0.37	
For>5,000, Deduct	-0.46	
33 01 30 41-0028 LF >30" To 42" Diameter Pipe Line Flushing .....	2.11	
For>250 To 500, Deduct	-0.11	
For>500 To 1,000, Deduct	-0.21	
For>1,000 To 2,000, Deduct	-0.32	
For>2,000 To 5,000, Deduct	-0.42	
For>5,000, Deduct	-0.53	
33 01 30 41-0029 LF >42" To 60" Diameter Pipe Line Flushing .....	2.81	
For>250 To 500, Deduct	-0.14	
For>500 To 1,000, Deduct	-0.28	
For>1,000 To 2,000, Deduct	-0.42	
For>2,000 To 5,000, Deduct	-0.56	
For>5,000, Deduct	-0.70	
<b>33 01 30 41-0030 Hydro Jet Cleaning Of Culverts</b> (33 01 30 41-0002)		
33 01 30 41-0031 LF Jet Cleaning Of Culvert, 0-250 LF .....	16.97	
For>250 To 500, Deduct	-0.85	
For>500 To 1,000, Deduct	-1.70	
For>1,000 To 2,000, Deduct	-2.55	
For>2,000 To 5,000, Deduct	-3.39	
For>5,000, Deduct	-4.24	
<b>33 01 30 41-0032 Pipe Line Cleaning, Mechanical Method</b> (33 01 30 41-0001)		
Note: Power winching buckets, scrapers, scooters, porcupines, brushes and other debris removing equipment. Includes removal of all debris/waste. Excludes disposal.		
33 01 30 41-0033 EA Initial Set Up And Final Equipment Removal For Mechanical Cleaning.....	1,191.67	
33 01 30 41-0034 EA Move And Reset Up At Different Access/Location.....	397.23	
33 01 30 41-0035 LF Up To 4" Diameter Pipe Line Cleaning, Mechanical Method .....	6.92	
For>250 To 500, Deduct	-0.33	
For>500 To 1,000, Deduct	-0.66	
For>1,000 To 2,000, Deduct	-0.99	
For>2,000 To 5,000, Deduct	-1.32	
For>5,000, Deduct	-1.66	
33 01 30 41-0036 LF 6" Diameter Pipe Line Cleaning, Mechanical Method .....	9.12	
For>250 To 500, Deduct	-0.43	
For>500 To 1,000, Deduct	-0.85	
For>1,000 To 2,000, Deduct	-1.28	
For>2,000 To 5,000, Deduct	-1.70	
For>5,000, Deduct	-2.13	
33 01 30 41-0037 LF 8" Diameter Pipe Line Cleaning, Mechanical Method .....	10.68	
For>250 To 500, Deduct	-0.50	
For>500 To 1,000, Deduct	-0.99	
For>1,000 To 2,000, Deduct	-1.49	
For>2,000 To 5,000, Deduct	-1.99	
For>5,000, Deduct	-2.48	
33 01 30 41-0038 LF 10" Diameter Pipe Line Cleaning, Mechanical Method .....	12.36	
For>250 To 500, Deduct	-0.57	
For>500 To 1,000, Deduct	-1.15	
For>1,000 To 2,000, Deduct	-1.72	
For>2,000 To 5,000, Deduct	-2.29	
For>5,000, Deduct	-2.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0039 LF 12" Diameter Pipe Line Cleaning, Mechanical Method .....	13.46	
<i>For &gt;250 To 500, Deduct</i>	-0.62	
<i>For &gt;500 To 1,000, Deduct</i>	-1.24	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.86	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.48	
<i>For &gt;5,000, Deduct</i>	-3.10	
33 01 30 41-0040 LF >12" To 16" Diameter Pipe Line Cleaning, Mechanical Method .....	15.53	
<i>For &gt;250 To 500, Deduct</i>	-0.71	
<i>For &gt;500 To 1,000, Deduct</i>	-1.42	
<i>For &gt;1,000 To 2,000, Deduct</i>	-2.13	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.84	
<i>For &gt;5,000, Deduct</i>	-3.55	
33 01 30 41-0041 LF >16" To 24" Diameter Pipe Line Cleaning, Mechanical Method .....	19.61	
<i>For &gt;250 To 500, Deduct</i>	-0.88	
<i>For &gt;500 To 1,000, Deduct</i>	-1.75	
<i>For &gt;1,000 To 2,000, Deduct</i>	-2.63	
<i>For &gt;2,000 To 5,000, Deduct</i>	-3.50	
<i>For &gt;5,000, Deduct</i>	-4.38	
33 01 30 41-0042 LF >24" To 30" Diameter Pipe Line Cleaning, Mechanical Method .....	22.53	
<i>For &gt;250 To 500, Deduct</i>	-0.98	
<i>For &gt;500 To 1,000, Deduct</i>	-1.95	
<i>For &gt;1,000 To 2,000, Deduct</i>	-2.93	
<i>For &gt;2,000 To 5,000, Deduct</i>	-3.91	
<i>For &gt;5,000, Deduct</i>	-4.89	
33 01 30 41-0043 LF >30" To 42" Diameter Pipe Line Cleaning, Mechanical Method .....	26.22	
<i>For &gt;250 To 500, Deduct</i>	-1.12	
<i>For &gt;500 To 1,000, Deduct</i>	-2.25	
<i>For &gt;1,000 To 2,000, Deduct</i>	-3.37	
<i>For &gt;2,000 To 5,000, Deduct</i>	-4.50	
<i>For &gt;5,000, Deduct</i>	-5.62	
33 01 30 41-0044 LF >42 To 60" Diameter Pipe Line Cleaning, Mechanical Method .....	34.27	
<i>For &gt;250 To 500, Deduct</i>	-1.49	
<i>For &gt;500 To 1,000, Deduct</i>	-2.98	
<i>For &gt;1,000 To 2,000, Deduct</i>	-4.47	
<i>For &gt;2,000 To 5,000, Deduct</i>	-5.96	
<i>For &gt;5,000, Deduct</i>	-7.45	
33 01 30 41-0045 LF >60" Diameter Pipe Line Cleaning, Mechanical Method .....	39.08	
<i>For &gt;250 To 500, Deduct</i>	-1.66	
<i>For &gt;500 To 1,000, Deduct</i>	-3.31	
<i>For &gt;1,000 To 2,000, Deduct</i>	-4.97	
<i>For &gt;2,000 To 5,000, Deduct</i>	-6.62	
<i>For &gt;5,000, Deduct</i>	-8.28	
<b>33 01 30 41-0046 Pipe Line Auguring/Rod Out Pipe (33 01 30 41-0001)</b>		
33 01 30 41-0047 EA Initial Set Up And Final Equipment Removal For Auguring .....	1,191.67	
33 01 30 41-0048 EA Move And Reset Up At Different Location .....	397.23	
33 01 30 41-0049 LF Up To 4" Diameter Pipe Line Auguring/Rod Out .....	3.97	
<i>For &gt;250 To 500, Deduct</i>	-0.20	
<i>For &gt;500 To 1,000, Deduct</i>	-0.40	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.60	
<i>For &gt;2,000 To 5,000, Deduct</i>	-0.79	
<i>For &gt;5,000, Deduct</i>	-0.99	
33 01 30 41-0050 LF 6" Diameter Pipe Line Auguring/Rod Out .....	5.14	
<i>For &gt;250 To 500, Deduct</i>	-0.26	
<i>For &gt;500 To 1,000, Deduct</i>	-0.51	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.77	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.03	
<i>For &gt;5,000, Deduct</i>	-1.29	
33 01 30 41-0051 LF 8" Diameter Pipe Line Auguring/Rod Out .....	5.95	
<i>For &gt;250 To 500, Deduct</i>	-0.30	
<i>For &gt;500 To 1,000, Deduct</i>	-0.60	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.89	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.19	
<i>For &gt;5,000, Deduct</i>	-1.49	
33 01 30 41-0052 LF 10" Diameter Pipe Line Auguring/Rod Out .....	6.93	
<i>For &gt;250 To 500, Deduct</i>	-0.35	
<i>For &gt;500 To 1,000, Deduct</i>	-0.69	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.04	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.39	
<i>For &gt;5,000, Deduct</i>	-1.73	
33 01 30 41-0053 LF 12" Diameter Pipe Line Auguring/Rod Out .....	7.45	
<i>For &gt;250 To 500, Deduct</i>	-0.37	
<i>For &gt;500 To 1,000, Deduct</i>	-0.75	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.12	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.49	
<i>For &gt;5,000, Deduct</i>	-1.86	
33 01 30 41-0054 LF >12" To 16" Diameter Pipe Line Auguring/Rod Out .....	8.52	
<i>For &gt;250 To 500, Deduct</i>	-0.43	
<i>For &gt;500 To 1,000, Deduct</i>	-0.85	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.28	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.70	
<i>For &gt;5,000, Deduct</i>	-2.13	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 41-0055 LF >16" To 24" Diameter Pipe Line Auguring/Rod Out.....	10.45	
For>250 To 500, Deduct	-0.52	
For>500 To 1,000, Deduct	-1.05	
For>1,000 To 2,000, Deduct	-1.57	
For>2,000 To 5,000, Deduct	-2.09	
For>5,000, Deduct	-2.61	
33 01 30 41-0056 LF >24" To 30" Diameter Pipe Line Auguring/Rod Out.....	11.68	
For>250 To 500, Deduct	-0.58	
For>500 To 1,000, Deduct	-1.17	
For>1,000 To 2,000, Deduct	-1.75	
For>2,000 To 5,000, Deduct	-2.34	
For>5,000, Deduct	-2.92	
33 01 30 41-0057 LF >30" To 42" Diameter Pipe Line Auguring/Rod Out.....	13.54	
For>250 To 500, Deduct	-0.68	
For>500 To 1,000, Deduct	-1.35	
For>1,000 To 2,000, Deduct	-2.03	
For>2,000 To 5,000, Deduct	-2.71	
For>5,000, Deduct	-3.39	
33 01 30 41-0058 LF >42 To 60" Diameter Pipe Line Auguring/Rod Out.....	18.62	
For>250 To 500, Deduct	-0.93	
For>500 To 1,000, Deduct	-1.86	
For>1,000 To 2,000, Deduct	-2.79	
For>2,000 To 5,000, Deduct	-3.72	
For>5,000, Deduct	-4.66	
33 01 30 41-0059 LF >60" Diameter Pipe Line Auguring/Rod Out.....	19.86	
For>250 To 500, Deduct	-0.99	
For>500 To 1,000, Deduct	-1.99	
For>1,000 To 2,000, Deduct	-2.98	
For>2,000 To 5,000, Deduct	-3.97	
For>5,000, Deduct	-4.97	

**33 01 30 42 Cleaning of Manholes (33 01 30)****33 01 30 42-0001 Structure Cleaning And Flushing (33 01 30 42)**

Note: Includes flushing. Owner provided water.

**33 01 30 42-0002 Rod Out Structures And Other Hand Operations (33 01 30 42-0001)**

33 01 30 42-0003 EA Rod Out Waste Water Drain.....	62.84	
33 01 30 42-0004 EA Rod Out Sewer Catch Basin.....	125.69	
33 01 30 42-0005 EA Up To 6" Diameter Pipe, Rod Out Blockage.....	25.14	
33 01 30 42-0006 EA 8" Diameter Pipe, Rod Out Blockage.....	27.65	
33 01 30 42-0007 EA 10" Diameter Pipe, Rod Out Blockage.....	31.42	
33 01 30 42-0008 EA 12" Diameter Pipe, Rod Out Blockage.....	36.45	
33 01 30 42-0009 EA >12" To 16" Diameter Pipe, Rod Out Blockage.....	42.74	
33 01 30 42-0010 EA >16" To 24" Diameter Pipe, Rod Out Blockage.....	50.27	
33 01 30 42-0011 EA >24" To 30" Diameter Pipe, Rod Out Blockage.....	59.07	
33 01 30 42-0012 EA >30" To 42" Diameter Pipe, Rod Out Blockage.....	67.88	
33 01 30 42-0013 EA >42" To 60" Diameter Pipe, Rod Out Blockage.....	79.18	
33 01 30 42-0014 EA >60" Diameter Pipe, Rod Out Blockage.....	94.27	
33 01 30 42-0015 EA Clean Out Debris From Entrance To Inlet Structure.....	314.22	
33 01 30 42-0016 EA 3' To 4' Diameter, Clean Out Blocked Manhole By Hand.....	843.73	
For>10 To 100, Deduct	-126.56	
For>100 To 250, Deduct	-189.84	
For>250, Deduct	-253.12	
33 01 30 42-0017 EA 5' To 6' Diameter, Clean Out Blocked Manhole By Hand.....	1,012.48	
For>10 To 100, Deduct	-151.87	
For>100 To 250, Deduct	-227.81	
For>250, Deduct	-303.74	
33 01 30 42-0018 EA Clean Out Blocked Catch Basin By Hand.....	506.24	
For>10 To 100, Deduct	-75.94	
For>100 To 250, Deduct	-113.90	
For>250, Deduct	-151.87	

**33 01 30 42-0019 Cleaning Manholes And Drainage Structures With Jet/Vacuum (33 01 30 42-0001)**

Note: Includes the removal of debris with high pressure water jetting and vacuum equipment and cleaning of grate. Excludes hardened concrete debris and disposal of material.

33 01 30 42-0020 EA Jet/Vacuum Clean 1 To 2 Catch Basins Or Manholes.....	301.10	
33 01 30 42-0021 EA Jet/Vacuum Clean 3 To 10 Catch Basins Or Manholes.....	279.61	
33 01 30 42-0022 EA Jet/Vacuum Clean 11 To 25 Catch Basins Or Manholes.....	258.12	
33 01 30 42-0023 EA Jet/Vacuum Clean 26 To 100 Catch Basins Or Manholes.....	236.62	
33 01 30 42-0024 EA Jet/Vacuum Clean 101 To 250 Catch Basins Or Manholes.....	215.13	
33 01 30 42-0025 EA Jet/Vacuum Clean >250 Catch Basins Or Manholes.....	193.65	

**33 01 30 43 Removal of Protruding Service Connection (33 01 30)****33 01 30 43-0001 Trim Protruding Service Taps (33 01 30 43)**

33 01 30 43-0002 EA Trim Protruding Service Tap, 4", Robotic.....	774.74	
33 01 30 43-0003 EA Trim Protruding Service Tap, 6", Robotic.....	852.21	
33 01 30 43-0004 EA Trim Protruding Service Tap, 8", Robotic.....	929.69	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**33 01 30 51 Maintenance of Utilities** (33 01 30 51)

33 01 30 51-0001

**Pipe Repair** (33 01 30 51)

Note: Excludes excavation and backfill where required See CSI section 31 23 00 00-0000 for excavation and backfill.

33 01 30 51-0002

**Pipe Repair Clamp, Full Circle, Single Band** (33 01 30 51-0001)

Note: Repair clamps for asbestos cement pipe, cast iron soil pipe, non-reinforced concrete pipe, PVC pipe, vitrified clay pipe, gray iron pipe and ductile iron pipe.

33 01 30 51-0003	EA	2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	140.26	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	20.64	
33 01 30 51-0004	EA	2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	196.48	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	31.10	
33 01 30 51-0005	EA	2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	225.89	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	36.63	
33 01 30 51-0006	EA	2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	256.70	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	42.14	
33 01 30 51-0007	EA	2-1/2" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	215.05	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	22.41	
33 01 30 51-0008	EA	2-1/2" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	208.62	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	33.19	
33 01 30 51-0009	EA	2-1/2" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	238.22	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	38.59	
33 01 30 51-0010	EA	2-1/2" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	274.40	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	45.15	
33 01 30 51-0011	EA	3" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	161.74	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	24.52	
33 01 30 51-0012	EA	3" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	216.71	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	34.70	
33 01 30 51-0013	EA	3" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	249.63	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	40.68	
33 01 30 51-0014	EA	3" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	289.63	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	48.30	
33 01 30 51-0015	EA	4" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	181.83	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	27.88	
33 01 30 51-0016	EA	4" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	239.01	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	37.53	
33 01 30 51-0017	EA	4" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	289.56	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	45.68	
33 01 30 51-0018	EA	4" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	348.72	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	55.11	
33 01 30 51-0019	EA	4" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	452.78	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	74.02	
33 01 30 51-0020	EA	4" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	561.95	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	92.93	
33 01 30 51-0021	EA	4" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	684.54	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	113.99	
33 01 30 51-0022	EA	6" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	213.53	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	32.90	
33 01 30 51-0023	EA	6" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	282.14	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	44.63	
33 01 30 51-0024	EA	6" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	334.54	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	52.62	
33 01 30 51-0025	EA	6" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	392.76	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	61.15	
33 01 30 51-0026	EA	6" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	537.53	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	88.61	
33 01 30 51-0027	EA	6" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	653.09	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	108.06	
33 01 30 51-0028	EA	6" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	779.93	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	129.12	
33 01 30 51-0029	EA	8" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	283.92	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	39.36	
33 01 30 51-0030	EA	8" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	367.42	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	52.08	
33 01 30 51-0031	EA	8" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	443.20	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	63.02	
33 01 30 51-0032	EA	8" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	529.55	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	75.10	
33 01 30 51-0033	EA	8" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	696.25	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	104.04	
33 01 30 51-0034	EA	8" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	832.77	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	124.41	
33 01 30 51-0035	EA	8" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	987.72	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	146.43	
33 01 30 51-0036	EA	10" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	329.52	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	47.90	
33 01 30 51-0037	EA	10" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	439.64	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	66.26	
33 01 30 51-0038	EA	10" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	518.71	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	77.47	
33 01 30 51-0039	EA	10" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	635.15	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	95.82	
33 01 30 51-0040	EA	10" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226)	827.32	
		<i>For Stainless Steel Nuts And Bolts, Add</i>	129.97	

**33 Utilities**  
**33 01 Operation and Maintenance of Utilities**  
**33 01 30 Operation and Maintenance of Sewer Utilities**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0041	EA	10" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) ..... <i>For Stainless Steel Nuts And Bolts, Add</i>	945.98 145.27	
33 01 30 51-0042	EA	10" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) ..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,209.70 191.65	
33 01 30 51-0043	EA	12" Diameter, 7-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) ..... <i>For Stainless Steel Nuts And Bolts, Add</i>	375.90 54.03	
33 01 30 51-0044	EA	12" Diameter, 10" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) ..... <i>For Stainless Steel Nuts And Bolts, Add</i>	488.67 71.86	
33 01 30 51-0045	EA	12" Diameter, 12-1/2" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) ..... <i>For Stainless Steel Nuts And Bolts, Add</i>	589.54 86.96	
33 01 30 51-0046	EA	12" Diameter, 15" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) ..... <i>For Stainless Steel Nuts And Bolts, Add</i>	723.58 108.06	
33 01 30 51-0047	EA	12" Diameter, 20" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) ..... <i>For Stainless Steel Nuts And Bolts, Add</i>	925.06 142.72	
33 01 30 51-0048	EA	12" Diameter, 25" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) ..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,089.79 166.67	
33 01 30 51-0049	EA	12" Diameter, 30" Long, Pipe Repair Clamp, Single Band With Alloy Bolts And Nuts (Smith-Blair 226) ..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,378.04 216.11	
<b>33 01 30 51-0050</b>		<b>Pipe Repair Clamp, Full Circle, Double Bands (33 01 30 51-0001)</b> Note: Repair clamps for reinforced concrete pipe, gray iron pipe and ductile iron pipe.		
33 01 30 51-0051	EA	14.38" To 15.13" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	803.18 207.89	
33 01 30 51-0052	EA	14.38" To 15.13" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,132.67 300.12	
33 01 30 51-0053	EA	14.38" To 15.13" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,522.01 407.00	
33 01 30 51-0054	EA	14.38" To 15.13" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,226.45 613.43	
33 01 30 51-0055	EA	15.07" To 15.82" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	843.14 218.12	
33 01 30 51-0056	EA	15.07" To 15.82" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,185.84 314.03	
33 01 30 51-0057	EA	15.07" To 15.82" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,589.88 424.56	
33 01 30 51-0058	EA	15.07" To 15.82" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,334.36 642.70	
33 01 30 51-0059	EA	15.92" To 16.67" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	865.95 222.53	
33 01 30 51-0060	EA	15.92" To 16.67" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,215.77 319.90	
33 01 30 51-0061	EA	15.92" To 16.67" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,633.41 434.08	
33 01 30 51-0062	EA	15.92" To 16.67" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,396.39 656.60	
33 01 30 51-0063	EA	16.56" To 17.31" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	890.16 226.92	
33 01 30 51-0064	EA	16.56" To 17.31" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,249.97 326.48	
33 01 30 51-0065	EA	16.56" To 17.31" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,676.81 442.13	
33 01 30 51-0066	EA	16.56" To 17.31" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,459.13 669.79	
33 01 30 51-0067	EA	17.15" To 17.90" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	912.22 230.58	
33 01 30 51-0068	EA	17.15" To 17.90" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,279.80 331.60	
33 01 30 51-0069	EA	17.15" To 17.90" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	1,720.21 450.18	
33 01 30 51-0070	EA	17.15" To 17.90" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	2,516.84 680.76	
33 01 30 51-0071	EA	17.82" To 18.57" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228)..... <i>For Stainless Steel Nuts And Bolts, Add</i>	932.86 234.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0072 EA 17.82" To 18.57" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,309.72	
<i>For Stainless Steel Nuts And Bolts, Add</i>	337.45	
33 01 30 51-0073 EA 17.82" To 18.57" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,758.68	
<i>For Stainless Steel Nuts And Bolts, Add</i>	457.50	
33 01 30 51-0074 EA 17.82" To 18.57" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,555.49	
<i>For Stainless Steel Nuts And Bolts, Add</i>	686.25	
33 01 30 51-0075 EA 18.46" To 19.21" OD Diameter Pipe, 10" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	956.15	
<i>For Stainless Steel Nuts And Bolts, Add</i>	238.81	
33 01 30 51-0076 EA 18.46" To 19.21" OD Diameter Pipe, 15" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,344.64	
<i>For Stainless Steel Nuts And Bolts, Add</i>	344.77	
33 01 30 51-0077 EA 18.46" To 19.21" OD Diameter Pipe, 20" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	1,799.24	
<i>For Stainless Steel Nuts And Bolts, Add</i>	465.55	
33 01 30 51-0078 EA 18.46" To 19.21" OD Diameter Pipe, 30" Long, Pipe Repair Clamp, Double Bands With Alloy Bolts And Nuts (Smith-Blair 228).....	2,633.74	
<i>For Stainless Steel Nuts And Bolts, Add</i>	705.65	
<b>33 01 30 51-0079 Repair Couplings and Fittings (33 01 30 51-0001)</b>		
<b>33 01 30 51-0080 Couplings And Fittings For Copper Pipe, Compression (33 01 30 51-0079)</b>		
Note: Includes gaskets. Dresser style 88.		
<b>33 01 30 51-0081 Copper Compression Repair Couplings (33 01 30 51-0080)</b>		
33 01 30 51-0082 EA 1/2" Copper Compression Repair Coupling.....	112.07	
33 01 30 51-0083 EA 3/4" Copper Compression Repair Coupling.....	130.27	
33 01 30 51-0084 EA 1" Copper Compression Repair Coupling.....	153.18	
33 01 30 51-0085 EA 1-1/4" Copper Compression Repair Coupling.....	172.23	
33 01 30 51-0086 EA 1-1/2" Copper Compression Repair Coupling.....	267.47	
<b>33 01 30 51-0087 Copper Compression Repair Fitting, 90 Degree Elbows (33 01 30 51-0080)</b>		
33 01 30 51-0088 EA 1/2" Copper Compression Repair 90 Degree Elbow.....	135.23	
33 01 30 51-0089 EA 1" Copper Compression Repair 90 Degree Elbow.....	156.49	
33 01 30 51-0090 EA 1-1/2" Copper Compression Repair 90 Degree Elbow.....	320.13	
33 01 30 51-0091 EA 1" IPS x 1" CTS 90 Degree Plain End Street Elbow.....	125.48	
33 01 30 51-0092 EA 3/4" IPS x 3/4" CTS 90 Degree Threaded End Street Elbow.....	112.92	
33 01 30 51-0093 EA 1" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	132.19	
33 01 30 51-0094 EA 1-1/4" IPS x 1" CTS 90 Degree Threaded End Street Elbow.....	163.87	
<b>33 01 30 51-0095 Copper Compression Repair Fitting, Tees (33 01 30 51-0080)</b>		
33 01 30 51-0096 EA 1/2" Copper Compression Repair Tee.....	249.00	
33 01 30 51-0097 EA 3/4" Copper Compression Repair Tee.....	191.29	
33 01 30 51-0098 EA 1" Copper Compression Repair Tee.....	227.35	
33 01 30 51-0099 EA 1" F x 1" M x 1" CTS Street Tee.....	186.30	
<b>33 01 30 51-0100 Copper Compression Repair Fitting, Male Adapters (33 01 30 51-0080)</b>		
33 01 30 51-0101 EA 3/4" M x 1/2" CTS Male Adapter.....	117.19	
33 01 30 51-0102 EA 3/4" M x 3/4" CTS Male Adapter.....	93.60	
33 01 30 51-0103 EA 1" M x 1" CTS Male Adapter.....	106.36	
33 01 30 51-0104 EA 1-1/4" M x 1" CTS Male Adapter.....	128.98	
33 01 30 51-0105 EA 1-1/4" M x 1-1/4" CTS Male Adapter.....	155.02	
33 01 30 51-0106 EA 1-1/2" M x 1" CTS Male Adapter.....	168.92	
<b>33 01 30 51-0107 Copper Compression Repair Fitting, Female Adapters (33 01 30 51-0080)</b>		
33 01 30 51-0108 EA 3/4" M x 3/4" CTS Female Adapter.....	137.60	
33 01 30 51-0109 EA 1" M x 1" CTS Female Adapter.....	145.35	
<b>33 01 30 51-0110 Couplings And Fittings For Steel Pipe, Cast Body, Compression (33 01 30 51-0079)</b>		
Note: Includes gaskets. Dresser style 90.		
<b>33 01 30 51-0111 Couplings For Steel Pipe, Cast Body (Compression) (33 01 30 51-0110)</b>		
Note: Includes gaskets.		
33 01 30 51-0112 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....	81.93	
33 01 30 51-0113 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring.....	83.28	
33 01 30 51-0114 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring.....	93.86	
33 01 30 51-0115 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring.....	104.55	
33 01 30 51-0116 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring.....	129.25	
33 01 30 51-0117 EA 2" Coupling, Cast Body (Compression), 5" Middle Ring.....	157.20	
33 01 30 51-0118 EA 1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	84.16	
33 01 30 51-0119 EA 3/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	85.74	
33 01 30 51-0120 EA 1" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	94.23	
33 01 30 51-0121 EA 1-1/4" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	105.69	
33 01 30 51-0122 EA 1-1/2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket.....	133.00	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 01 30 51-0123	EA	2" Coupling, Cast Body (Compression), 5" Middle Ring With Armored Gasket	158.85	
33 01 30 51-0124	EA	3/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	159.97	
33 01 30 51-0125	EA	1" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	187.14	
33 01 30 51-0126	EA	1-1/4" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	194.91	
33 01 30 51-0127	EA	1-1/2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	219.42	
33 01 30 51-0128	EA	2" Coupling, Steel Body (Compression), 5" Middle Ring With Armored Gasket	266.97	

**33 01 30 51-0129 Reducing Couplings For Steel Pipe (Compression)** (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0130	EA	3/4" x 1/2" Reducing Coupling (Compression)	90.74	
33 01 30 51-0131	EA	1" x 3/4" Reducing Coupling (Compression)	96.29	
33 01 30 51-0132	EA	1-1/4" x 3/4" Reducing Coupling (Compression)	108.62	
33 01 30 51-0133	EA	1-1/4" x 1" Reducing Coupling (Compression)	112.74	
33 01 30 51-0134	EA	1-1/2" x 3/4" Reducing Coupling (Compression)	215.31	
33 01 30 51-0135	EA	1-1/2" x 1" Reducing Coupling (Compression)	135.64	
33 01 30 51-0136	EA	1-1/2" x 1-1/4" Reducing Coupling (Compression)	136.23	
33 01 30 51-0137	EA	2" x 3/4" Reducing Coupling (Compression)	257.16	
33 01 30 51-0138	EA	2" x 1" Reducing Coupling (Compression)	234.28	
33 01 30 51-0139	EA	2" x 1-1/4" Reducing Coupling (Compression)	179.83	
33 01 30 51-0140	EA	2" x 1-1/2" Reducing Coupling (Compression)	179.23	

**33 01 30 51-0141 Steel Compression Repair Fittings, Elbows** (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0142	EA	1" 45 Degree Elbow (Compression)	148.82	
33 01 30 51-0143	EA	1-1/4" 45 Degree Elbow (Compression)	155.30	
33 01 30 51-0144	EA	1-1/2" 45 Degree Elbow (Compression)	200.50	
33 01 30 51-0145	EA	2" 45 Degree Elbow (Compression)	252.89	
33 01 30 51-0146	EA	3/4" 90 Degree Elbow (Compression)	100.24	
33 01 30 51-0147	EA	1" 90 Degree Elbow (Compression)	104.24	
33 01 30 51-0148	EA	1-1/4" 90 Degree Elbow (Compression)	122.01	
33 01 30 51-0149	EA	1-1/2" 90 Degree Elbow (Compression)	173.50	
33 01 30 51-0150	EA	2" 90 Degree Elbow (Compression)	190.46	
33 01 30 51-0151	EA	3/4" Plain End 90 Degree Street Elbow (Compression)	100.55	
33 01 30 51-0152	EA	1" Plain End 90 Degree Street Elbow (Compression)	89.39	
33 01 30 51-0153	EA	1-1/4" Plain End 90 Degree Street Elbow (Compression)	101.01	
33 01 30 51-0154	EA	1-1/2" Plain End 90 Degree Street Elbow (Compression)	127.72	
33 01 30 51-0155	EA	2" Plain End 90 Degree Street Elbow (Compression)	164.56	
33 01 30 51-0156	EA	3/4" Threaded End 90 Degree Street Elbow (Compression)	103.77	
33 01 30 51-0157	EA	1" Threaded End 90 Degree Street Elbow (Compression)	95.44	
33 01 30 51-0158	EA	1-1/4" Threaded End 90 Degree Street Elbow (Compression)	123.45	
33 01 30 51-0159	EA	1-1/2" Threaded End 90 Degree Street Elbow (Compression)	149.12	
33 01 30 51-0160	EA	2" Threaded End 90 Degree Street Elbow (Compression)	210.35	

**33 01 30 51-0161 Steel Compression Repair Fittings, Tees** (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0162	EA	3/4" Street Tee (Compression)	111.42	
33 01 30 51-0163	EA	1" Street Tee (Compression)	131.10	
33 01 30 51-0164	EA	1-1/4" Street Tee (Compression)	133.17	
33 01 30 51-0165	EA	1-1/2" Street Tee (Compression)	154.32	
33 01 30 51-0166	EA	2" Street Tee (Compression)	231.19	
33 01 30 51-0167	EA	1-1/4" x 1-1/4" x 1" Reducing Street Tee (Compression)	132.01	
33 01 30 51-0168	EA	1-1/4" x 1" x 1-1/4" Reducing Street Tee (Compression)	137.85	
33 01 30 51-0169	EA	1-1/2" x 1-1/2" x 1" Reducing Street Tee (Compression)	172.64	
33 01 30 51-0170	EA	1-1/2" x 1-1/2" x 1-1/4" Reducing Street Tee (Compression)	199.06	
33 01 30 51-0171	EA	1-1/2" x 1" x 1-1/2" Reducing Street Tee (Compression)	200.22	
33 01 30 51-0172	EA	1-1/2" x 1-1/4" x 1-1/2" Reducing Street Tee (Compression)	170.15	
33 01 30 51-0173	EA	2" x 1-1/4" x 2" Reducing Street Tee (Compression)	225.48	
33 01 30 51-0174	EA	2" x 1-1/2" x 2" Reducing Street Tee (Compression)	254.83	
33 01 30 51-0175	EA	3/4" Welding Street Tee (Compression)	199.48	
33 01 30 51-0176	EA	1" Welding Street Tee (Compression)	200.80	
33 01 30 51-0177	EA	1-1/4" Welding Street Tee (Compression)	215.77	
33 01 30 51-0178	EA	1-1/2" Welding Street Tee (Compression)	259.98	
33 01 30 51-0179	EA	2" Welding Street Tee (Compression)	349.05	
33 01 30 51-0180	EA	3/4" Regular Tee (Compression)	148.25	
33 01 30 51-0181	EA	1" Regular Tee (Compression)	256.69	
33 01 30 51-0182	EA	1-1/4" Regular Tee (Compression)	271.54	
33 01 30 51-0183	EA	1-1/2" Regular Tee (Compression)	292.69	
33 01 30 51-0184	EA	2" Regular Tee (Compression)	325.27	
33 01 30 51-0185	EA	2" x 2" x 1-1/4" Regular Reducing Tee (Compression)	320.57	

**33 01 30 51-0186 Steel Compression Repair Fittings, Male Adapters** (33 01 30 51-0110)

Note: Includes armored gaskets.

33 01 30 51-0187	EA	3/4" Male Adapter (Compression)	99.96	
33 01 30 51-0188	EA	1" Male Adapter (Compression)	111.56	
33 01 30 51-0189	EA	1-1/4" Male Adapter (Compression)	144.89	
33 01 30 51-0190	EA	1-1/2" Male Adapter (Compression)	164.12	
33 01 30 51-0191	EA	2" Male Adapter (Compression)	185.54	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 01 30 51-0192	EA 1" x 1-1/4" Male Adapter (Compression) .....	144.13	
	<b>33 01 30 51-0193</b>	<b>Steel Compression Repair Fittings, Line Caps <small>(33 01 30 51-0110)</small></b>		
		Note: Includes armored gaskets.		
	33 01 30 51-0194	EA 3/4" Line Caps (Compression).....	53.59	
	33 01 30 51-0195	EA 1" Line Caps (Compression).....	62.39	
	33 01 30 51-0196	EA 1-1/4" Line Caps (Compression).....	71.34	
	33 01 30 51-0197	EA 1-1/2" Line Caps (Compression).....	84.10	
	33 01 30 51-0198	EA 2" Line Caps (Compression).....	103.77	
	<b>33 01 30 51-0199</b>	<b>Couplings For Steel Pipe <small>(33 01 30 51-0079)</small></b>		
		Note: Includes Buna S gasket, Dresser style 38		
	33 01 30 51-0200	EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket.....	81.24	
	33 01 30 51-0201	EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket.....	100.95	
	33 01 30 51-0202	EA 1" Coupling, 5" Middle Ring With Buna S Gasket.....	116.63	
	33 01 30 51-0203	EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket.....	139.97	
	33 01 30 51-0204	EA 2" Coupling, 4" Middle Ring With Buna S Gasket.....	173.01	
	33 01 30 51-0205	EA 2" Coupling, 5" Middle Ring With Buna S Gasket.....	224.60	
	33 01 30 51-0206	EA 2" Coupling, 7" Middle Ring With Buna S Gasket.....	211.76	
	33 01 30 51-0207	EA 3" Coupling, 4" Middle Ring With Buna S Gasket.....	278.68	
	33 01 30 51-0208	EA 3" Coupling, 5" Middle Ring With Buna S Gasket.....	286.45	
	33 01 30 51-0209	EA 3" Coupling, 7" Middle Ring With Buna S Gasket.....	294.22	
	33 01 30 51-0210	EA 4" Coupling, 4" Middle Ring With Buna S Gasket.....	324.86	
	33 01 30 51-0211	EA 4" Coupling, 5" Middle Ring With Buna S Gasket.....	338.05	
	33 01 30 51-0212	EA 4" Coupling, 7" Middle Ring With Buna S Gasket.....	354.58	
	33 01 30 51-0213	EA 5" Coupling, 4" Middle Ring With Buna S Gasket.....	418.34	
	33 01 30 51-0214	EA 5" Coupling, 5" Middle Ring With Buna S Gasket.....	423.55	
	33 01 30 51-0215	EA 5" Coupling, 7" Middle Ring With Buna S Gasket.....	442.51	
	33 01 30 51-0216	EA 6" Coupling, 4" Middle Ring With Buna S Gasket.....	448.57	
	33 01 30 51-0217	EA 6" Coupling, 5" Middle Ring With Buna S Gasket.....	462.65	
	33 01 30 51-0218	EA 6" Coupling, 7" Middle Ring With Buna S Gasket.....	480.64	
	33 01 30 51-0219	EA 8" Coupling, 4" Middle Ring With Buna S Gasket.....	523.54	
	33 01 30 51-0220	EA 8" Coupling, 5" Middle Ring With Buna S Gasket.....	544.37	
	33 01 30 51-0221	EA 8" Coupling, 7" Middle Ring With Buna S Gasket.....	561.46	
	33 01 30 51-0222	EA 10" Coupling, 5" Middle Ring With Buna S Gasket.....	640.50	
	33 01 30 51-0223	EA 10" Coupling, 7" Middle Ring With Buna S Gasket.....	738.79	
	33 01 30 51-0224	EA 12" Coupling, 5" Middle Ring With Buna S Gasket.....	727.84	
	33 01 30 51-0225	EA 12" Coupling, 7" Middle Ring With Buna S Gasket.....	936.19	
	33 01 30 51-0226	EA 14" Coupling, 7" Middle Ring With Buna S Gasket.....	1,079.62	
	33 01 30 51-0227	EA 16" Coupling, 7" Middle Ring With Buna S Gasket.....	1,284.54	
	33 01 30 51-0228	EA 18" Coupling, 7" Middle Ring With Buna S Gasket.....	1,412.31	
	33 01 30 51-0229	EA 20" Coupling, 7" Middle Ring With Buna S Gasket.....	1,524.53	
	33 01 30 51-0230	EA 22" Coupling, 7" Middle Ring With Buna S Gasket.....	1,897.06	
	33 01 30 51-0231	EA 24" Coupling, 7" Middle Ring With Buna S Gasket.....	1,997.63	
	<b>33 01 30 51-0232</b>	<b>Couplings For Steel Pipe <small>(33 01 30 51-0079)</small></b>		
		Note: Includes Buna S gasket, protected, Dresser style 38.		
	33 01 30 51-0233	EA 1/2" Coupling, 3-1/2" Middle Ring With Buna S Gasket, Protected.....	83.47	
	33 01 30 51-0234	EA 3/4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	100.64	
	33 01 30 51-0235	EA 1" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	116.49	
	33 01 30 51-0236	EA 1-1/2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	138.94	
	33 01 30 51-0237	EA 2" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	202.65	
	33 01 30 51-0238	EA 2" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	198.57	
	33 01 30 51-0239	EA 2" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	200.61	
	33 01 30 51-0240	EA 3" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	294.22	
	33 01 30 51-0241	EA 3" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	301.99	
	33 01 30 51-0242	EA 3" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	309.76	
	33 01 30 51-0243	EA 4" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	346.03	
	33 01 30 51-0244	EA 4" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	332.34	
	33 01 30 51-0245	EA 4" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	339.54	
	33 01 30 51-0246	EA 5" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	445.62	
	33 01 30 51-0247	EA 5" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	449.42	
	33 01 30 51-0248	EA 5" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	625.68	
	33 01 30 51-0249	EA 6" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	456.90	
	33 01 30 51-0250	EA 6" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	477.13	
	33 01 30 51-0251	EA 6" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	484.93	
	33 01 30 51-0252	EA 8" Coupling, 4" Middle Ring With Buna S Gasket, Protected.....	568.74	
	33 01 30 51-0253	EA 8" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	576.42	
	33 01 30 51-0254	EA 8" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	588.79	
	33 01 30 51-0255	EA 10" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	659.15	
	33 01 30 51-0256	EA 10" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	758.22	
	33 01 30 51-0257	EA 12" Coupling, 5" Middle Ring With Buna S Gasket, Protected.....	747.26	
	33 01 30 51-0258	EA 12" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	955.19	
	33 01 30 51-0259	EA 14" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,099.05	
	33 01 30 51-0260	EA 16" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,313.68	
	33 01 30 51-0261	EA 18" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,451.16	
	33 01 30 51-0262	EA 20" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,563.38	
	33 01 30 51-0263	EA 22" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....	1,935.91	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 01 30 51-0264 EA 24" Coupling, 7" Middle Ring With Buna S Gasket, Protected.....2,036.48

**33 01 30 51-0265****Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes Buna N gasket, protected, Dresser style 38.

33 01 30 51-0266	EA	1/2" Coupling, 3-1/2" Middle Ring With Buna N Gasket, Protected	97.28
33 01 30 51-0267	EA	3/4" Coupling, 5" Middle Ring With Buna N Gasket, Protected	114.70
33 01 30 51-0268	EA	1" Coupling, 5" Middle Ring With Buna N Gasket, Protected	132.98
33 01 30 51-0269	EA	1-1/2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	160.37
33 01 30 51-0270	EA	2" Coupling, 4" Middle Ring With Buna N Gasket, Protected	202.65
33 01 30 51-0271	EA	2" Coupling, 5" Middle Ring With Buna N Gasket, Protected	237.34
33 01 30 51-0272	EA	2" Coupling, 7" Middle Ring With Buna N Gasket, Protected	248.88
33 01 30 51-0273	EA	3" Coupling, 4" Middle Ring With Buna N Gasket, Protected	294.22
33 01 30 51-0274	EA	3" Coupling, 5" Middle Ring With Buna N Gasket, Protected	301.99
33 01 30 51-0275	EA	3" Coupling, 7" Middle Ring With Buna N Gasket, Protected	309.76
33 01 30 51-0276	EA	4" Coupling, 4" Middle Ring With Buna N Gasket, Protected	346.03
33 01 30 51-0277	EA	4" Coupling, 5" Middle Ring With Buna N Gasket, Protected	373.73
33 01 30 51-0278	EA	4" Coupling, 7" Middle Ring With Buna N Gasket, Protected	384.26
33 01 30 51-0279	EA	5" Coupling, 4" Middle Ring With Buna N Gasket, Protected	445.62
33 01 30 51-0280	EA	5" Coupling, 5" Middle Ring With Buna N Gasket, Protected	449.42
33 01 30 51-0281	EA	5" Coupling, 7" Middle Ring With Buna N Gasket, Protected	493.91
33 01 30 51-0282	EA	6" Coupling, 4" Middle Ring With Buna N Gasket, Protected	456.90
33 01 30 51-0283	EA	6" Coupling, 5" Middle Ring With Buna N Gasket, Protected	477.13
33 01 30 51-0284	EA	6" Coupling, 7" Middle Ring With Buna N Gasket, Protected	484.93
33 01 30 51-0285	EA	8" Coupling, 4" Middle Ring With Buna N Gasket, Protected	568.74
33 01 30 51-0286	EA	8" Coupling, 5" Middle Ring With Buna N Gasket, Protected	576.42
33 01 30 51-0287	EA	8" Coupling, 7" Middle Ring With Buna N Gasket, Protected	588.79
33 01 30 51-0288	EA	10" Coupling, 5" Middle Ring With Buna N Gasket, Protected	659.15
33 01 30 51-0289	EA	10" Coupling, 7" Middle Ring With Buna N Gasket, Protected	758.22
33 01 30 51-0290	EA	12" Coupling, 5" Middle Ring With Buna N Gasket, Protected	747.26
33 01 30 51-0291	EA	12" Coupling, 7" Middle Ring With Buna N Gasket, Protected	955.19
33 01 30 51-0292	EA	14" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,099.05
33 01 30 51-0293	EA	16" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,284.54
33 01 30 51-0294	EA	18" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,451.16
33 01 30 51-0295	EA	20" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,563.38
33 01 30 51-0296	EA	22" Coupling, 7" Middle Ring With Buna N Gasket, Protected	1,935.91
33 01 30 51-0297	EA	24" Coupling, 7" Middle Ring With Buna N Gasket, Protected	2,036.48

**33 01 30 51-0298****Couplings For Steel Pipe (33 01 30 51-0079)**

Note: Includes high temperature carded glass gasket, protected, Dresser style 38.

33 01 30 51-0299	EA	3/4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	163.44
33 01 30 51-0300	EA	1" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	177.54
33 01 30 51-0301	EA	1-1/2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	187.54
33 01 30 51-0302	EA	2" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	284.82
33 01 30 51-0303	EA	2" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	306.07
33 01 30 51-0304	EA	2" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	316.89
33 01 30 51-0305	EA	3" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	369.11
33 01 30 51-0306	EA	3" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	366.66
33 01 30 51-0307	EA	4" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	412.58
33 01 30 51-0308	EA	4" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	423.11
33 01 30 51-0309	EA	5" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	570.05
33 01 30 51-0310	EA	5" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	584.02
33 01 30 51-0311	EA	6" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	608.95
33 01 30 51-0312	EA	6" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	618.21
33 01 30 51-0313	EA	8" Coupling, 4" Middle Ring With High Temp Carded Glass Gasket	635.39
33 01 30 51-0314	EA	8" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	774.42
33 01 30 51-0315	EA	8" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	831.12
33 01 30 51-0316	EA	10" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	852.61
33 01 30 51-0317	EA	10" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	852.41
33 01 30 51-0318	EA	12" Coupling, 5" Middle Ring With High Temp Carded Glass Gasket	1,078.15
33 01 30 51-0319	EA	12" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,120.85
33 01 30 51-0320	EA	14" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,294.15
33 01 30 51-0321	EA	16" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,614.42
33 01 30 51-0322	EA	18" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,583.25
33 01 30 51-0323	EA	20" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,763.46
33 01 30 51-0324	EA	22" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	1,910.66
33 01 30 51-0325	EA	24" Coupling, 7" Middle Ring With High Temp Carded Glass Gasket	2,075.33

**33 01 30 51-0326****Grind Offset Joint (33 01 30 51-0001)**

33 01 30 51-0327	EA	6" To 10", Grind Drop Offset Joint	464.84
33 01 30 51-0328	EA	>10" To 15", Grind Drop Offset Joint	619.78
33 01 30 51-0329	EA	>15" To 24", Grind Drop Offset Joint	774.74
33 01 30 51-0330	EA	>24" To 30", Grind Drop Offset Joint	929.69

**33 01 30 51-0331****Pipe Plugging (33 01 30 51-0001)****33 01 30 51-0332****Gravity Bladder Type, Temporary Pipe Plugging (33 01 30 51-0331)**

Note: Includes insertion of expandable bladder device into pipe, expanding to block flow and removal.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 51-0333 EA 3/4" Bladder Type, Temporary Pipe Plug.....	76.83	
33 01 30 51-0334 EA 1" Bladder Type, Temporary Pipe Plug.....	82.22	
33 01 30 51-0335 EA 1-1/4" Bladder Type, Temporary Pipe Plug.....	88.76	
33 01 30 51-0336 EA 1-1/2" Bladder Type, Temporary Pipe Plug.....	94.84	
33 01 30 51-0337 EA 2" Bladder Type, Temporary Pipe Plug.....	100.69	
33 01 30 51-0338 EA 2-1/2" Bladder Type, Temporary Pipe Plug.....	107.22	
33 01 30 51-0339 EA 3" Bladder Type, Temporary Pipe Plug.....	115.50	
33 01 30 51-0340 EA 4" Bladder Type, Temporary Pipe Plug.....	127.07	
33 01 30 51-0341 EA 5" Bladder Type, Temporary Pipe Plug.....	137.69	
33 01 30 51-0342 EA 6" Bladder Type, Temporary Pipe Plug.....	153.60	
33 01 30 51-0343 EA 8" Bladder Type, Temporary Pipe Plug.....	170.53	
33 01 30 51-0344 EA 10" Bladder Type, Temporary Pipe Plug.....	197.65	
33 01 30 51-0345 EA 12" Bladder Type, Temporary Pipe Plug.....	231.31	
33 01 30 51-0346 EA 14" Bladder Type, Temporary Pipe Plug.....	275.28	
33 01 30 51-0347 EA 16" Bladder Type, Temporary Pipe Plug.....	331.63	
33 01 30 51-0348 EA 18" Bladder Type, Temporary Pipe Plug.....	399.33	
33 01 30 51-0349 EA 20" Bladder Type, Temporary Pipe Plug.....	475.80	
33 01 30 51-0350 EA 24" Bladder Type, Temporary Pipe Plug.....	549.35	
<b>33 01 30 51-0351</b>	<b>Hydra Stop, Hot Tapping Of Pressure Pipe <small>(33 01 30 51-0331)</small></b>	
	Note: Includes flanged or threaded lateral outlet, cutting and tapping pipe, insertion of expandable bladder device into pipe, expanding to block flow, and removal of bladder/cutting device.	
33 01 30 51-0352 EA 2" Hydra Stop, Line Stopper.....	2,724.53	
33 01 30 51-0353 EA 2-1/2" Hydra Stop, Line Stopper.....	3,418.96	
33 01 30 51-0354 EA 3" Hydra Stop, Line Stopper.....	4,193.19	
33 01 30 51-0355 EA 4" Hydra Stop, Line Stopper.....	5,050.01	
33 01 30 51-0356 EA 5" Hydra Stop, Line Stopper.....	5,680.72	
33 01 30 51-0357 EA 6" Hydra Stop, Line Stopper.....	6,676.13	
33 01 30 51-0358 EA 8" Hydra Stop, Line Stopper.....	7,306.83	
33 01 30 51-0359 EA 10" Hydra Stop, Line Stopper.....	8,302.20	
33 01 30 51-0360 EA 12" Hydra Stop, Line Stopper.....	9,297.60	
33 01 30 51-0361 EA 14" Hydra Stop, Line Stopper.....	10,359.48	
33 01 30 51-0362 EA 16" Hydra Stop, Line Stopper.....	11,820.45	
33 01 30 51-0363 EA 18" Hydra Stop, Line Stopper.....	13,480.92	
33 01 30 51-0364 EA 20" Hydra Stop, Line Stopper.....	16,072.35	
<b>33 01 30 51-0365</b>	<b>Aluminum Expansion Plugs <small>(33 01 30 51-0331)</small></b>	
	Note: For use with PVC, clay Or cast iron drainage pipe.	
33 01 30 51-0366 EA 3" Pipe Aluminum Expansion Plug.....	82.20	
33 01 30 51-0367 EA 4" Pipe Aluminum Expansion Plug.....	116.86	
33 01 30 51-0368 EA 5" Pipe Aluminum Expansion Plug.....	131.53	
33 01 30 51-0369 EA 6" Pipe Aluminum Expansion Plug.....	197.83	
33 01 30 51-0370 EA 8" Pipe Aluminum Expansion Plug.....	203.50	
33 01 30 51-0371 EA 10" Pipe Aluminum Expansion Plug.....	253.63	
33 01 30 51-0372 EA 12" Pipe Aluminum Expansion Plug.....	341.31	
33 01 30 51-0373 EA 14" Pipe Aluminum Expansion Plug.....	547.87	
33 01 30 51-0374 EA 15" Pipe Aluminum Expansion Plug.....	593.05	
<b>33 01 30 51-0375</b>	<b>Pipe Repair Clamp, Stainless Steel, 3" Long <small>(33 01 30 51-0001)</small></b>	
33 01 30 51-0376 EA 1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	197.19	
33 01 30 51-0377 EA 3/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	197.37	
33 01 30 51-0378 EA 1" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	197.81	
33 01 30 51-0379 EA 1-1/4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	198.25	
33 01 30 51-0380 EA 1-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	198.47	
33 01 30 51-0381 EA 2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	199.13	
33 01 30 51-0382 EA 2-1/2" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	199.79	
33 01 30 51-0383 EA 3" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	200.67	
33 01 30 51-0384 EA 4" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	362.82	
33 01 30 51-0385 EA 6" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	365.68	
33 01 30 51-0386 EA 8" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	367.67	
33 01 30 51-0387 EA 10" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	388.62	
33 01 30 51-0388 EA 12" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	391.27	
33 01 30 51-0389 EA 14" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	393.04	
33 01 30 51-0390 EA 16" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	395.68	
33 01 30 51-0391 EA 18" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	398.33	
33 01 30 51-0392 EA 20" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	401.86	
33 01 30 51-0393 EA 24" Diameter Pipe Clamp, Stainless Steel, 3" Long.....	408.03	
<b>33 01 30 51-0394</b>	<b>Polyseal Pipe Coupler <small>(33 01 30 51-0001)</small></b>	
33 01 30 51-0395 EA 18" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	411.62	
33 01 30 51-0396 EA 24" Diameter Pipe, PolySeal Repair Couplers (MarMac).....	465.20	
<b>33 01 30 63</b>	<b>Sewer and Pipe Joint Sealing <small>(33 01 30)</small></b>	
<b>33 01 30 63-0001</b>	<b>Joint Air Test <small>(33 01 30 63)</small></b>	
33 01 30 63-0002 EA 4" To 8", Joint Air Test.....	113.84	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	63-0003	EA	10" To 15", Joint Air Test .....	132.81	
33 01 30	63-0004	EA	>15" To 21", Joint Air Test .....	151.78	
33 01 30	63-0005	EA	>21" To 24", Joint Air Test .....	189.73	
33 01 30	63-0006	EA	>24" To 27", Joint Air Test .....	227.67	
33 01 30	63-0007	EA	>27" To 36", Joint Air Test .....	265.62	
<b>33 01 30</b>	<b>63-0008</b>		<b>Joint Seal And Joint Air Retest</b> <small>(33 01 30 63)</small>		
			Note: Includes grout.		
33 01 30	63-0009	EA	4" Joint Seal And Joint Air Retest .....	339.42	
			Note: Includes up to 1 gallon of grout.		
33 01 30	63-0010	EA	6" Joint Seal And Joint Air Retest .....	377.37	
			Note: Includes 1 gallon of grout.		
33 01 30	63-0011	EA	8" Joint Seal And Joint Air Retest .....	451.17	
			Note: Includes 2 gallons of grout.		
33 01 30	63-0012	EA	10" Joint Seal And Joint Air Retest .....	507.06	
			Note: Includes 2.5 gallons of grout.		
33 01 30	63-0013	EA	12" Joint Seal And Joint Air Retest .....	562.93	
			Note: Includes 3 gallons of grout.		
33 01 30	63-0014	EA	15" Joint Seal And Joint Air Retest .....	665.71	
			Note: Includes 3.75 gallons of grout.		
33 01 30	63-0015	EA	18" Joint Seal And Joint Air Retest .....	768.50	
			Note: Includes 4.5 gallons of grout.		
33 01 30	63-0016	EA	21" Joint Seal And Joint Air Retest .....	871.29	
			Note: Includes 5.25 gallons of grout.		
33 01 30	63-0017	EA	24" Joint Seal And Joint Air Retest .....	1,012.02	
			Note: Includes 6 gallons of grout.		
33 01 30	63-0018	EA	27" Joint Seal And Joint Air Retest .....	1,152.75	
			Note: Includes 6.75 gallons of grout.		
33 01 30	63-0019	EA	30" Joint Seal And Joint Air Retest .....	1,331.44	
			Note: Includes 7.5 gallons of grout.		
33 01 30	63-0020	EA	36" Joint Seal And Joint Air Retest .....	1,537.02	
			Note: Includes 9 gallons of grout.		
33 01 30	63-0021	GAL	Extra Grout Per Joint .....	187.64	
			Note: For extra grout per joint required over listed amount.		
<b>33 01 30 71</b>			<b>Relining Sewers</b> <small>(33 01 30)</small>		
<b>33 01 30 71-0001</b>			<b>Relining Underground Pipelines</b> <small>(33 01 30 71)</small>		
			Note: Excludes CCTV inspection, sewer cleaning, pavement both temporary and permanent, emergency after hours response for homeowners backups. See CSI section 01 22 20 00-0000 for hourly rates for after hours response for homeowners backups, 32 01 17 63-0000 for temporary pavement, 32 12 16 00-0000 for permanent pavement, 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
<b>33 01 30 71-0002</b>			<b>Lining Pipe With Rib Loc</b> <small>(33 01 30 71-0001)</small>		
33 01 30 71-0003	LF		Lining 6" Pipe With Rib Loc .....	49.32	
			For >500 To 1,000, Deduct .....	-1.25	
			For >1,000 To 2,000, Deduct .....	-2.43	
			For >2,000 To 5,000, Deduct .....	-3.74	
			For >5,000, Deduct .....	-5.58	
33 01 30 71-0004	LF		Lining 8" Pipe With Rib Loc .....	54.88	
			For >500 To 1,000, Deduct .....	-1.38	
			For >1,000 To 2,000, Deduct .....	-2.69	
			For >2,000 To 5,000, Deduct .....	-4.14	
			For >5,000, Deduct .....	-6.19	
33 01 30 71-0005	LF		Lining 10" Pipe With Rib Loc .....	76.33	
			For >500 To 1,000, Deduct .....	-1.83	
			For >1,000 To 2,000, Deduct .....	-3.59	
			For >2,000 To 5,000, Deduct .....	-5.50	
			For >5,000, Deduct .....	-8.40	
33 01 30 71-0006	LF		Lining 12" Pipe With Rib Loc .....	97.37	
			For >500 To 1,000, Deduct .....	-2.28	
			For >1,000 To 2,000, Deduct .....	-4.48	
			For >2,000 To 5,000, Deduct .....	-6.85	
			For >5,000, Deduct .....	-10.58	
33 01 30 71-0007	LF		Lining 15" Pipe With Rib Loc .....	129.87	
			For >500 To 1,000, Deduct .....	-2.98	
			For >1,000 To 2,000, Deduct .....	-5.87	
			For >2,000 To 5,000, Deduct .....	-8.94	
			For >5,000, Deduct .....	-13.95	
33 01 30 71-0008	LF		Lining 18" Pipe With Rib Loc .....	167.77	
			For >500 To 1,000, Deduct .....	-3.79	
			For >1,000 To 2,000, Deduct .....	-7.47	
			For >2,000 To 5,000, Deduct .....	-11.36	
			For >5,000, Deduct .....	-17.86	
33 01 30 71-0009	LF		Lining 21" Pipe With Rib Loc .....	210.97	
			For >500 To 1,000, Deduct .....	-4.69	
			For >1,000 To 2,000, Deduct .....	-9.26	
			For >2,000 To 5,000, Deduct .....	-14.06	
			For >5,000, Deduct .....	-22.27	
33 01 30 71-0010	LF		Lining 24" Pipe With Rib Loc .....	261.34	
			For >500 To 1,000, Deduct .....	-5.74	
			For >1,000 To 2,000, Deduct .....	-11.35	
			For >2,000 To 5,000, Deduct .....	-17.21	
			For >5,000, Deduct .....	-27.41	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0011 LF Lining 27" Pipe With Rib Loc .....	313.27	
For >500 To 1,000, Deduct	-6.83	
For >1,000 To 2,000, Deduct	-13.51	
For >2,000 To 5,000, Deduct	-20.48	
For >5,000, Deduct	-32.73	
33 01 30 71-0012 LF Lining 30" Pipe With Rib Loc .....	371.82	
For >500 To 1,000, Deduct	-8.06	
For >1,000 To 2,000, Deduct	-15.97	
For >2,000 To 5,000, Deduct	-24.18	
For >5,000, Deduct	-38.74	
33 01 30 71-0013 LF Lining 36" Pipe With Rib Loc .....	474.51	
For >500 To 1,000, Deduct	-10.19	
For >1,000 To 2,000, Deduct	-20.21	
For >2,000 To 5,000, Deduct	-30.58	
For >5,000, Deduct	-49.21	
33 01 30 71-0014 LF Lining 42" Pipe With Rib Loc .....	591.21	
For >500 To 1,000, Deduct	-12.63	
For >1,000 To 2,000, Deduct	-25.05	
For >2,000 To 5,000, Deduct	-37.88	
For >5,000, Deduct	-61.13	
33 01 30 71-0015 LF Lining 48" Pipe With Rib Loc .....	723.84	
For >500 To 1,000, Deduct	-15.41	
For >1,000 To 2,000, Deduct	-30.59	
For >2,000 To 5,000, Deduct	-46.24	
For >5,000, Deduct	-74.73	
33 01 30 71-0016 LF Lining 54" Pipe With Rib Loc .....	855.90	
For >500 To 1,000, Deduct	-18.24	
For >1,000 To 2,000, Deduct	-36.20	
For >2,000 To 5,000, Deduct	-54.73	
For >5,000, Deduct	-88.40	
33 01 30 71-0017 LF Lining 60" Pipe With Rib Loc .....	1,009.64	
For >500 To 1,000, Deduct	-21.73	
For >1,000 To 2,000, Deduct	-43.07	
For >2,000 To 5,000, Deduct	-65.18	
For >5,000, Deduct	-104.80	
33 01 30 71-0018 LF Lining 66" Pipe With Rib Loc .....	1,198.08	
For >500 To 1,000, Deduct	-26.37	
For >1,000 To 2,000, Deduct	-52.14	
For >2,000 To 5,000, Deduct	-79.11	
For >5,000, Deduct	-125.83	
33 01 30 71-0019 LF Lining 72" Pipe With Rib Loc .....	1,445.14	
For >500 To 1,000, Deduct	-33.12	
For >1,000 To 2,000, Deduct	-65.18	
For >2,000 To 5,000, Deduct	-99.36	
For >5,000, Deduct	-155.05	
 33 01 30 71-0020 Lining Pipe, Spray Applied With Structural Polyurethane (33 01 30 71-0001)		
Note: Two part structural polyurethane.		
33 01 30 71-0021 Mobilization And Setup For Spray Applied Structural Polyurethane Lining (33 01 30 71-0020)		
33 01 30 71-0022 EA Initial Set Up And Final Equipment Removal For Spray Applied Structural Polyurethane Lining.....	1,769.49	
 33 01 30 71-0023 Lining Pipe, Spray Applied With 100 mil Structural Polyurethane (33 01 30 71-0020)		
Note: Two part structural polyurethane.		
33 01 30 71-0024 LF 36" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	58.11	
For Up To 75, Add	12.58	
For >75 To 150, Add	5.81	
For >500 To 1,000, Deduct	-1.54	
For >1,000 To 2,000, Deduct	-2.99	
For >2,000 To 5,000, Deduct	-4.63	
For >5,000, Deduct	-6.77	
33 01 30 71-0025 LF 42" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	67.81	
For Up To 75, Add	14.68	
For >75 To 150, Add	6.78	
For >500 To 1,000, Deduct	-1.80	
For >1,000 To 2,000, Deduct	-3.49	
For >2,000 To 5,000, Deduct	-5.40	
For >5,000, Deduct	-7.89	
33 01 30 71-0026 LF 48" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	77.50	
For Up To 75, Add	16.77	
For >75 To 150, Add	7.75	
For >500 To 1,000, Deduct	-2.06	
For >1,000 To 2,000, Deduct	-3.99	
For >2,000 To 5,000, Deduct	-6.18	
For >5,000, Deduct	-9.02	
33 01 30 71-0027 LF 54" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	87.18	
For Up To 75, Add	18.87	
For >75 To 150, Add	8.72	
For >500 To 1,000, Deduct	-2.32	
For >1,000 To 2,000, Deduct	-4.49	
For >2,000 To 5,000, Deduct	-6.95	
For >5,000, Deduct	-10.15	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0028 LF 60" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	96.87	
For Up To 75, Add	20.96	
For >75 To 150, Add	9.69	
For >500 To 1,000, Deduct	-2.57	
For >1,000 To 2,000, Deduct	-4.99	
For >2,000 To 5,000, Deduct	-7.72	
For >5,000, Deduct	-11.28	
33 01 30 71-0029 LF 66" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	106.56	
For Up To 75, Add	23.06	
For >75 To 150, Add	10.66	
For >500 To 1,000, Deduct	-2.83	
For >1,000 To 2,000, Deduct	-5.49	
For >2,000 To 5,000, Deduct	-8.49	
For >5,000, Deduct	-12.41	
33 01 30 71-0030 LF 72" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	116.25	
For Up To 75, Add	25.16	
For >75 To 150, Add	11.63	
For >500 To 1,000, Deduct	-3.09	
For >1,000 To 2,000, Deduct	-5.99	
For >2,000 To 5,000, Deduct	-9.27	
For >5,000, Deduct	-13.53	
33 01 30 71-0031 LF 78" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	125.93	
For Up To 75, Add	27.25	
For >75 To 150, Add	12.59	
For >500 To 1,000, Deduct	-3.35	
For >1,000 To 2,000, Deduct	-6.48	
For >2,000 To 5,000, Deduct	-10.04	
For >5,000, Deduct	-14.66	
33 01 30 71-0032 LF 84" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	135.62	
For Up To 75, Add	29.35	
For >75 To 150, Add	13.56	
For >500 To 1,000, Deduct	-3.60	
For >1,000 To 2,000, Deduct	-6.98	
For >2,000 To 5,000, Deduct	-10.81	
For >5,000, Deduct	-15.79	
33 01 30 71-0033 LF 90" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	145.30	
For Up To 75, Add	31.45	
For >75 To 150, Add	14.53	
For >500 To 1,000, Deduct	-3.86	
For >1,000 To 2,000, Deduct	-7.48	
For >2,000 To 5,000, Deduct	-11.58	
For >5,000, Deduct	-16.92	
33 01 30 71-0034 LF 96" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	154.99	
For Up To 75, Add	33.54	
For >75 To 150, Add	15.50	
For >500 To 1,000, Deduct	-4.12	
For >1,000 To 2,000, Deduct	-7.98	
For >2,000 To 5,000, Deduct	-12.35	
For >5,000, Deduct	-18.04	
33 01 30 71-0035 LF 102" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	164.68	
For Up To 75, Add	35.64	
For >75 To 150, Add	16.47	
For >500 To 1,000, Deduct	-4.38	
For >1,000 To 2,000, Deduct	-8.48	
For >2,000 To 5,000, Deduct	-13.13	
For >5,000, Deduct	-19.17	
33 01 30 71-0036 LF 108" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	174.36	
For Up To 75, Add	37.74	
For >75 To 150, Add	17.44	
For >500 To 1,000, Deduct	-4.63	
For >1,000 To 2,000, Deduct	-8.98	
For >2,000 To 5,000, Deduct	-13.90	
For >5,000, Deduct	-20.30	
33 01 30 71-0037 LF 114" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	184.06	
For Up To 75, Add	39.83	
For >75 To 150, Add	18.41	
For >500 To 1,000, Deduct	-4.89	
For >1,000 To 2,000, Deduct	-9.48	
For >2,000 To 5,000, Deduct	-14.67	
For >5,000, Deduct	-21.43	
33 01 30 71-0038 LF 120" Diameter Pipe Lining, Spray Applied With 100 mil Structural Polyurethane .....	193.74	
For Up To 75, Add	41.93	
For >75 To 150, Add	19.37	
For >500 To 1,000, Deduct	-5.15	
For >1,000 To 2,000, Deduct	-9.98	
For >2,000 To 5,000, Deduct	-15.44	
For >5,000, Deduct	-22.56	
33 01 30 71-0039 SF Structure Lining, Spray Applied With 100 mil Structural Polyurethane .....	6.16	

33 01 30 71-0040 Lining Pipe, Spray Applied With 150 mil Structural Polyurethane (33 01 30 71-0020)

Note: Two part structural polyurethane.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0041 LF 36" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	78.69	
For Up To 75, Add	16.74	
For >75 To 150, Add	7.87	
For >500 To 1,000, Deduct	-1.98	
For >1,000 To 2,000, Deduct	-3.85	
For >2,000 To 5,000, Deduct	-5.93	
For >5,000, Deduct	-8.87	
33 01 30 71-0042 LF 42" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	91.79	
For Up To 75, Add	19.53	
For >75 To 150, Add	9.18	
For >500 To 1,000, Deduct	-2.30	
For >1,000 To 2,000, Deduct	-4.49	
For >2,000 To 5,000, Deduct	-6.91	
For >5,000, Deduct	-10.35	
33 01 30 71-0043 LF 48" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	104.91	
For Up To 75, Add	22.32	
For >75 To 150, Add	10.49	
For >500 To 1,000, Deduct	-2.63	
For >1,000 To 2,000, Deduct	-5.13	
For >2,000 To 5,000, Deduct	-7.90	
For >5,000, Deduct	-11.83	
33 01 30 71-0044 LF 54" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	118.01	
For Up To 75, Add	25.11	
For >75 To 150, Add	11.80	
For >500 To 1,000, Deduct	-2.96	
For >1,000 To 2,000, Deduct	-5.77	
For >2,000 To 5,000, Deduct	-8.89	
For >5,000, Deduct	-13.31	
33 01 30 71-0045 LF 60" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	131.14	
For Up To 75, Add	27.90	
For >75 To 150, Add	13.11	
For >500 To 1,000, Deduct	-3.29	
For >1,000 To 2,000, Deduct	-6.42	
For >2,000 To 5,000, Deduct	-9.88	
For >5,000, Deduct	-14.79	
33 01 30 71-0046 LF 66" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	144.24	
For Up To 75, Add	30.69	
For >75 To 150, Add	14.42	
For >500 To 1,000, Deduct	-3.62	
For >1,000 To 2,000, Deduct	-7.06	
For >2,000 To 5,000, Deduct	-10.86	
For >5,000, Deduct	-16.27	
33 01 30 71-0047 LF 72" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	157.36	
For Up To 75, Add	33.48	
For >75 To 150, Add	15.74	
For >500 To 1,000, Deduct	-3.95	
For >1,000 To 2,000, Deduct	-7.70	
For >2,000 To 5,000, Deduct	-11.85	
For >5,000, Deduct	-17.75	
33 01 30 71-0048 LF 78" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	170.47	
For Up To 75, Add	36.27	
For >75 To 150, Add	17.05	
For >500 To 1,000, Deduct	-4.28	
For >1,000 To 2,000, Deduct	-8.34	
For >2,000 To 5,000, Deduct	-12.84	
For >5,000, Deduct	-19.22	
33 01 30 71-0049 LF 84" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	183.59	
For Up To 75, Add	39.06	
For >75 To 150, Add	18.36	
For >500 To 1,000, Deduct	-4.61	
For >1,000 To 2,000, Deduct	-8.98	
For >2,000 To 5,000, Deduct	-13.83	
For >5,000, Deduct	-20.70	
33 01 30 71-0050 LF 90" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	196.70	
For Up To 75, Add	41.85	
For >75 To 150, Add	19.67	
For >500 To 1,000, Deduct	-4.94	
For >1,000 To 2,000, Deduct	-9.63	
For >2,000 To 5,000, Deduct	-14.82	
For >5,000, Deduct	-22.18	
33 01 30 71-0051 LF 96" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	209.82	
For Up To 75, Add	44.64	
For >75 To 150, Add	20.98	
For >500 To 1,000, Deduct	-5.27	
For >1,000 To 2,000, Deduct	-10.27	
For >2,000 To 5,000, Deduct	-15.80	
For >5,000, Deduct	-23.66	
33 01 30 71-0052 LF 102" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane.....	222.93	
For Up To 75, Add	47.43	
For >75 To 150, Add	22.29	
For >500 To 1,000, Deduct	-5.60	
For >1,000 To 2,000, Deduct	-10.91	
For >2,000 To 5,000, Deduct	-16.79	
For >5,000, Deduct	-25.14	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0053 LF 108" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	236.05	
For Up To 75, Add	50.22	
For >75 To 150, Add	23.61	
For >500 To 1,000, Deduct	-5.93	
For >1,000 To 2,000, Deduct	-11.55	
For >2,000 To 5,000, Deduct	-17.78	
For >5,000, Deduct	-26.62	
33 01 30 71-0054 LF 114" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	249.15	
For Up To 75, Add	53.01	
For >75 To 150, Add	24.92	
For >500 To 1,000, Deduct	-6.26	
For >1,000 To 2,000, Deduct	-12.19	
For >2,000 To 5,000, Deduct	-18.77	
For >5,000, Deduct	-28.10	
33 01 30 71-0055 LF 120" Diameter Pipe Lining, Spray Applied With 150 mil Structural Polyurethane .....	262.28	
For Up To 75, Add	55.81	
For >75 To 150, Add	26.23	
For >500 To 1,000, Deduct	-6.59	
For >1,000 To 2,000, Deduct	-12.84	
For >2,000 To 5,000, Deduct	-19.76	
For >5,000, Deduct	-29.58	
33 01 30 71-0056 SF Structure Lining, Spray Applied With 150 mil Structural Polyurethane .....	8.35	
<b>33 01 30 71-0057 Lining Pipe, Spray Applied With 200 mil Structural Polyurethane (33 01 30 71-0020)</b>		
Note: Two part structural polyurethane.		
33 01 30 71-0058 LF 36" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	99.21	
For Up To 75, Add	20.90	
For >75 To 150, Add	9.92	
For >500 To 1,000, Deduct	-2.41	
For >1,000 To 2,000, Deduct	-4.71	
For >2,000 To 5,000, Deduct	-7.22	
For >5,000, Deduct	-10.98	
33 01 30 71-0059 LF 42" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	115.75	
For Up To 75, Add	24.38	
For >75 To 150, Add	11.58	
For >500 To 1,000, Deduct	-2.81	
For >1,000 To 2,000, Deduct	-5.49	
For >2,000 To 5,000, Deduct	-8.43	
For >5,000, Deduct	-12.81	
33 01 30 71-0060 LF 48" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	132.28	
For Up To 75, Add	27.87	
For >75 To 150, Add	13.23	
For >500 To 1,000, Deduct	-3.21	
For >1,000 To 2,000, Deduct	-6.28	
For >2,000 To 5,000, Deduct	-9.63	
For >5,000, Deduct	-14.64	
33 01 30 71-0061 LF 54" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	148.83	
For Up To 75, Add	31.35	
For >75 To 150, Add	14.88	
For >500 To 1,000, Deduct	-3.61	
For >1,000 To 2,000, Deduct	-7.06	
For >2,000 To 5,000, Deduct	-10.83	
For >5,000, Deduct	-16.47	
33 01 30 71-0062 LF 60" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	165.37	
For Up To 75, Add	34.84	
For >75 To 150, Add	16.54	
For >500 To 1,000, Deduct	-4.01	
For >1,000 To 2,000, Deduct	-7.85	
For >2,000 To 5,000, Deduct	-12.04	
For >5,000, Deduct	-18.30	
33 01 30 71-0063 LF 66" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	181.90	
For Up To 75, Add	38.32	
For >75 To 150, Add	18.19	
For >500 To 1,000, Deduct	-4.41	
For >1,000 To 2,000, Deduct	-8.63	
For >2,000 To 5,000, Deduct	-13.24	
For >5,000, Deduct	-20.13	
33 01 30 71-0064 LF 72" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	198.44	
For Up To 75, Add	41.80	
For >75 To 150, Add	19.84	
For >500 To 1,000, Deduct	-4.81	
For >1,000 To 2,000, Deduct	-9.42	
For >2,000 To 5,000, Deduct	-14.44	
For >5,000, Deduct	-21.96	
33 01 30 71-0065 LF 78" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	214.97	
For Up To 75, Add	45.29	
For >75 To 150, Add	21.50	
For >500 To 1,000, Deduct	-5.22	
For >1,000 To 2,000, Deduct	-10.20	
For >2,000 To 5,000, Deduct	-15.65	
For >5,000, Deduct	-23.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0066 LF 84" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	231.52	
<i>For Up To 75, Add</i>	48.77	
<i>For &gt;75 To 150, Add</i>	23.15	
<i>For &gt;500 To 1,000, Deduct</i>	-5.62	
<i>For &gt;1,000 To 2,000, Deduct</i>	-10.99	
<i>For &gt;2,000 To 5,000, Deduct</i>	-16.85	
<i>For &gt;5,000, Deduct</i>	-25.62	
33 01 30 71-0067 LF 90" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	248.04	
<i>For Up To 75, Add</i>	52.25	
<i>For &gt;75 To 150, Add</i>	24.80	
<i>For &gt;500 To 1,000, Deduct</i>	-6.02	
<i>For &gt;1,000 To 2,000, Deduct</i>	-11.77	
<i>For &gt;2,000 To 5,000, Deduct</i>	-18.05	
<i>For &gt;5,000, Deduct</i>	-27.45	
33 01 30 71-0068 LF 96" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	264.58	
<i>For Up To 75, Add</i>	55.74	
<i>For &gt;75 To 150, Add</i>	26.46	
<i>For &gt;500 To 1,000, Deduct</i>	-6.42	
<i>For &gt;1,000 To 2,000, Deduct</i>	-12.56	
<i>For &gt;2,000 To 5,000, Deduct</i>	-19.26	
<i>For &gt;5,000, Deduct</i>	-29.28	
33 01 30 71-0069 LF 102" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	281.12	
<i>For Up To 75, Add</i>	59.22	
<i>For &gt;75 To 150, Add</i>	28.11	
<i>For &gt;500 To 1,000, Deduct</i>	-6.82	
<i>For &gt;1,000 To 2,000, Deduct</i>	-13.34	
<i>For &gt;2,000 To 5,000, Deduct</i>	-20.46	
<i>For &gt;5,000, Deduct</i>	-31.11	
33 01 30 71-0070 LF 108" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	297.65	
<i>For Up To 75, Add</i>	62.70	
<i>For &gt;75 To 150, Add</i>	29.77	
<i>For &gt;500 To 1,000, Deduct</i>	-7.22	
<i>For &gt;1,000 To 2,000, Deduct</i>	-14.13	
<i>For &gt;2,000 To 5,000, Deduct</i>	-21.67	
<i>For &gt;5,000, Deduct</i>	-32.94	
33 01 30 71-0071 LF 114" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	314.20	
<i>For Up To 75, Add</i>	66.19	
<i>For &gt;75 To 150, Add</i>	31.42	
<i>For &gt;500 To 1,000, Deduct</i>	-7.62	
<i>For &gt;1,000 To 2,000, Deduct</i>	-14.91	
<i>For &gt;2,000 To 5,000, Deduct</i>	-22.87	
<i>For &gt;5,000, Deduct</i>	-34.77	
33 01 30 71-0072 LF 120" Diameter Pipe Lining, Spray Applied With 200 mil Structural Polyurethane .....	330.73	
<i>For Up To 75, Add</i>	69.67	
<i>For &gt;75 To 150, Add</i>	33.07	
<i>For &gt;500 To 1,000, Deduct</i>	-8.02	
<i>For &gt;1,000 To 2,000, Deduct</i>	-15.70	
<i>For &gt;2,000 To 5,000, Deduct</i>	-24.07	
<i>For &gt;5,000, Deduct</i>	-36.60	
33 01 30 71-0073 SF Structure Lining, Spray Applied With 200 mil Structural Polyurethane .....	10.53	
<b>33 01 30 71-0074 Lining Pipe, Spray Applied With 250 mil Structural Polyurethane</b> <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0075 LF 36" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	119.85	
<i>For Up To 75, Add</i>	25.08	
<i>For &gt;75 To 150, Add</i>	11.99	
<i>For &gt;500 To 1,000, Deduct</i>	-2.84	
<i>For &gt;1,000 To 2,000, Deduct</i>	-5.57	
<i>For &gt;2,000 To 5,000, Deduct</i>	-8.53	
<i>For &gt;5,000, Deduct</i>	-13.10	
33 01 30 71-0076 LF 42" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	139.83	
<i>For Up To 75, Add</i>	29.27	
<i>For &gt;75 To 150, Add</i>	13.98	
<i>For &gt;500 To 1,000, Deduct</i>	-3.32	
<i>For &gt;1,000 To 2,000, Deduct</i>	-6.50	
<i>For &gt;2,000 To 5,000, Deduct</i>	-9.95	
<i>For &gt;5,000, Deduct</i>	-15.28	
33 01 30 71-0077 LF 48" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	159.80	
<i>For Up To 75, Add</i>	33.44	
<i>For &gt;75 To 150, Add</i>	15.98	
<i>For &gt;500 To 1,000, Deduct</i>	-3.79	
<i>For &gt;1,000 To 2,000, Deduct</i>	-7.43	
<i>For &gt;2,000 To 5,000, Deduct</i>	-11.37	
<i>For &gt;5,000, Deduct</i>	-17.46	
33 01 30 71-0078 LF 54" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	179.77	
<i>For Up To 75, Add</i>	37.62	
<i>For &gt;75 To 150, Add</i>	17.98	
<i>For &gt;500 To 1,000, Deduct</i>	-4.26	
<i>For &gt;1,000 To 2,000, Deduct</i>	-8.36	
<i>For &gt;2,000 To 5,000, Deduct</i>	-12.79	
<i>For &gt;5,000, Deduct</i>	-19.65	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0079 LF 60" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	199.74	
For Up To 75, Add	41.80	
For >75 To 150, Add	19.97	
For >500 To 1,000, Deduct	-4.74	
For >1,000 To 2,000, Deduct	-9.29	
For >2,000 To 5,000, Deduct	-14.21	
For >5,000, Deduct	-21.83	
33 01 30 71-0080 LF 66" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	219.73	
For Up To 75, Add	45.99	
For >75 To 150, Add	21.97	
For >500 To 1,000, Deduct	-5.21	
For >1,000 To 2,000, Deduct	-10.22	
For >2,000 To 5,000, Deduct	-15.63	
For >5,000, Deduct	-24.01	
33 01 30 71-0081 LF 72" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	239.70	
For Up To 75, Add	50.17	
For >75 To 150, Add	23.97	
For >500 To 1,000, Deduct	-5.68	
For >1,000 To 2,000, Deduct	-11.15	
For >2,000 To 5,000, Deduct	-17.05	
For >5,000, Deduct	-26.20	
33 01 30 71-0082 LF 78" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	259.68	
For Up To 75, Add	54.35	
For >75 To 150, Add	25.97	
For >500 To 1,000, Deduct	-6.16	
For >1,000 To 2,000, Deduct	-12.08	
For >2,000 To 5,000, Deduct	-18.48	
For >5,000, Deduct	-28.38	
33 01 30 71-0083 LF 84" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	279.64	
For Up To 75, Add	58.53	
For >75 To 150, Add	27.96	
For >500 To 1,000, Deduct	-6.63	
For >1,000 To 2,000, Deduct	-13.00	
For >2,000 To 5,000, Deduct	-19.89	
For >5,000, Deduct	-30.56	
33 01 30 71-0084 LF 90" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	299.63	
For Up To 75, Add	62.71	
For >75 To 150, Add	29.96	
For >500 To 1,000, Deduct	-7.11	
For >1,000 To 2,000, Deduct	-13.93	
For >2,000 To 5,000, Deduct	-21.32	
For >5,000, Deduct	-32.75	
33 01 30 71-0085 LF 96" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	319.59	
For Up To 75, Add	66.89	
For >75 To 150, Add	31.96	
For >500 To 1,000, Deduct	-7.58	
For >1,000 To 2,000, Deduct	-14.86	
For >2,000 To 5,000, Deduct	-22.74	
For >5,000, Deduct	-34.93	
33 01 30 71-0086 LF 102" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	339.57	
For Up To 75, Add	71.07	
For >75 To 150, Add	33.96	
For >500 To 1,000, Deduct	-8.05	
For >1,000 To 2,000, Deduct	-15.79	
For >2,000 To 5,000, Deduct	-24.16	
For >5,000, Deduct	-37.11	
33 01 30 71-0087 LF 108" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	359.55	
For Up To 75, Add	75.25	
For >75 To 150, Add	35.96	
For >500 To 1,000, Deduct	-8.53	
For >1,000 To 2,000, Deduct	-16.72	
For >2,000 To 5,000, Deduct	-25.58	
For >5,000, Deduct	-39.29	
33 01 30 71-0088 LF 114" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	379.52	
For Up To 75, Add	79.43	
For >75 To 150, Add	37.95	
For >500 To 1,000, Deduct	-9.00	
For >1,000 To 2,000, Deduct	-17.65	
For >2,000 To 5,000, Deduct	-27.00	
For >5,000, Deduct	-41.48	
33 01 30 71-0089 LF 120" Diameter Pipe Lining, Spray Applied With 250 mil Structural Polyurethane .....	399.50	
For Up To 75, Add	83.61	
For >75 To 150, Add	39.95	
For >500 To 1,000, Deduct	-9.47	
For >1,000 To 2,000, Deduct	-18.58	
For >2,000 To 5,000, Deduct	-28.42	
For >5,000, Deduct	-43.66	
33 01 30 71-0090 SF Structure Lining, Spray Applied With 250 mil Structural Polyurethane .....	12.71	

33 01 30 71-0091 Lining Pipe, Spray Applied With 300 mil Structural Polyurethane (33 01 30 71-0020)  
 Note: Two part structural polyurethane.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0092 LF 36" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	140.62	
<i>For Up To 75, Add</i>	29.30	
<i>For &gt;75 To 150, Add</i>	14.06	
<i>For &gt;500 To 1,000, Deduct</i>	-3.28	
<i>For &gt;1,000 To 2,000, Deduct</i>	-6.45	
<i>For &gt;2,000 To 5,000, Deduct</i>	-9.84	
<i>For &gt;5,000, Deduct</i>	-15.23	
33 01 30 71-0093 LF 42" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	164.05	
<i>For Up To 75, Add</i>	34.18	
<i>For &gt;75 To 150, Add</i>	16.41	
<i>For &gt;500 To 1,000, Deduct</i>	-3.83	
<i>For &gt;1,000 To 2,000, Deduct</i>	-7.52	
<i>For &gt;2,000 To 5,000, Deduct</i>	-11.48	
<i>For &gt;5,000, Deduct</i>	-17.77	
33 01 30 71-0094 LF 48" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	187.49	
<i>For Up To 75, Add</i>	39.06	
<i>For &gt;75 To 150, Add</i>	18.75	
<i>For &gt;500 To 1,000, Deduct</i>	-4.37	
<i>For &gt;1,000 To 2,000, Deduct</i>	-8.59	
<i>For &gt;2,000 To 5,000, Deduct</i>	-13.12	
<i>For &gt;5,000, Deduct</i>	-20.31	
33 01 30 71-0095 LF 54" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	210.92	
<i>For Up To 75, Add</i>	43.94	
<i>For &gt;75 To 150, Add</i>	21.09	
<i>For &gt;500 To 1,000, Deduct</i>	-4.92	
<i>For &gt;1,000 To 2,000, Deduct</i>	-9.67	
<i>For &gt;2,000 To 5,000, Deduct</i>	-14.76	
<i>For &gt;5,000, Deduct</i>	-22.85	
33 01 30 71-0096 LF 60" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	234.37	
<i>For Up To 75, Add</i>	48.83	
<i>For &gt;75 To 150, Add</i>	23.44	
<i>For &gt;500 To 1,000, Deduct</i>	-5.47	
<i>For &gt;1,000 To 2,000, Deduct</i>	-10.74	
<i>For &gt;2,000 To 5,000, Deduct</i>	-16.41	
<i>For &gt;5,000, Deduct</i>	-25.39	
33 01 30 71-0097 LF 66" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	257.79	
<i>For Up To 75, Add</i>	53.71	
<i>For &gt;75 To 150, Add</i>	25.78	
<i>For &gt;500 To 1,000, Deduct</i>	-6.02	
<i>For &gt;1,000 To 2,000, Deduct</i>	-11.82	
<i>For &gt;2,000 To 5,000, Deduct</i>	-18.05	
<i>For &gt;5,000, Deduct</i>	-27.93	
33 01 30 71-0098 LF 72" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	281.22	
<i>For Up To 75, Add</i>	58.59	
<i>For &gt;75 To 150, Add</i>	28.12	
<i>For &gt;500 To 1,000, Deduct</i>	-6.56	
<i>For &gt;1,000 To 2,000, Deduct</i>	-12.89	
<i>For &gt;2,000 To 5,000, Deduct</i>	-19.69	
<i>For &gt;5,000, Deduct</i>	-30.47	
33 01 30 71-0099 LF 78" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	304.66	
<i>For Up To 75, Add</i>	63.47	
<i>For &gt;75 To 150, Add</i>	30.47	
<i>For &gt;500 To 1,000, Deduct</i>	-7.11	
<i>For &gt;1,000 To 2,000, Deduct</i>	-13.96	
<i>For &gt;2,000 To 5,000, Deduct</i>	-21.33	
<i>For &gt;5,000, Deduct</i>	-33.01	
33 01 30 71-0100 LF 84" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	328.09	
<i>For Up To 75, Add</i>	68.35	
<i>For &gt;75 To 150, Add</i>	32.81	
<i>For &gt;500 To 1,000, Deduct</i>	-7.66	
<i>For &gt;1,000 To 2,000, Deduct</i>	-15.04	
<i>For &gt;2,000 To 5,000, Deduct</i>	-22.97	
<i>For &gt;5,000, Deduct</i>	-35.54	
33 01 30 71-0101 LF 90" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	351.53	
<i>For Up To 75, Add</i>	73.24	
<i>For &gt;75 To 150, Add</i>	35.15	
<i>For &gt;500 To 1,000, Deduct</i>	-8.20	
<i>For &gt;1,000 To 2,000, Deduct</i>	-16.11	
<i>For &gt;2,000 To 5,000, Deduct</i>	-24.61	
<i>For &gt;5,000, Deduct</i>	-38.08	
33 01 30 71-0102 LF 96" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	374.96	
<i>For Up To 75, Add</i>	78.12	
<i>For &gt;75 To 150, Add</i>	37.50	
<i>For &gt;500 To 1,000, Deduct</i>	-8.75	
<i>For &gt;1,000 To 2,000, Deduct</i>	-17.19	
<i>For &gt;2,000 To 5,000, Deduct</i>	-26.25	
<i>For &gt;5,000, Deduct</i>	-40.62	
33 01 30 71-0103 LF 102" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	398.40	
<i>For Up To 75, Add</i>	83.00	
<i>For &gt;75 To 150, Add</i>	39.84	
<i>For &gt;500 To 1,000, Deduct</i>	-9.30	
<i>For &gt;1,000 To 2,000, Deduct</i>	-18.26	
<i>For &gt;2,000 To 5,000, Deduct</i>	-27.89	
<i>For &gt;5,000, Deduct</i>	-43.16	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0104 LF 108" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	421.84	
For Up To 75, Add	87.88	
For >75 To 150, Add	42.18	
For >500 To 1,000, Deduct	-9.84	
For >1,000 To 2,000, Deduct	-19.33	
For >2,000 To 5,000, Deduct	-29.53	
For >5,000, Deduct	-45.70	
33 01 30 71-0105 LF 114" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	445.27	
For Up To 75, Add	92.76	
For >75 To 150, Add	44.53	
For >500 To 1,000, Deduct	-10.39	
For >1,000 To 2,000, Deduct	-20.41	
For >2,000 To 5,000, Deduct	-31.17	
For >5,000, Deduct	-48.24	
33 01 30 71-0106 LF 120" Diameter Pipe Lining, Spray Applied With 300 mil Structural Polyurethane .....	468.70	
For Up To 75, Add	97.65	
For >75 To 150, Add	46.87	
For >500 To 1,000, Deduct	-10.94	
For >1,000 To 2,000, Deduct	-21.48	
For >2,000 To 5,000, Deduct	-32.81	
For >5,000, Deduct	-50.78	
33 01 30 71-0107 SF Structure Lining, Spray Applied With 300 mil Structural Polyurethane .....	14.92	
<b>33 01 30 71-0108 Lining Pipe, Spray Applied With 400 mil Structural Polyurethane (33 01 30 71-0020)</b>		
Note: Two part structural polyurethane.		
33 01 30 71-0109 LF 36" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	182.17	
For Up To 75, Add	37.74	
For >75 To 150, Add	18.22	
For >500 To 1,000, Deduct	-4.16	
For >1,000 To 2,000, Deduct	-8.20	
For >2,000 To 5,000, Deduct	-12.49	
For >5,000, Deduct	-19.52	
33 01 30 71-0110 LF 42" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	212.54	
For Up To 75, Add	44.03	
For >75 To 150, Add	21.25	
For >500 To 1,000, Deduct	-4.86	
For >1,000 To 2,000, Deduct	-9.56	
For >2,000 To 5,000, Deduct	-14.58	
For >5,000, Deduct	-22.77	
33 01 30 71-0111 LF 48" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	242.90	
For Up To 75, Add	50.32	
For >75 To 150, Add	24.29	
For >500 To 1,000, Deduct	-5.55	
For >1,000 To 2,000, Deduct	-10.93	
For >2,000 To 5,000, Deduct	-16.66	
For >5,000, Deduct	-26.03	
33 01 30 71-0112 LF 54" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	273.28	
For Up To 75, Add	56.61	
For >75 To 150, Add	27.33	
For >500 To 1,000, Deduct	-6.25	
For >1,000 To 2,000, Deduct	-12.30	
For >2,000 To 5,000, Deduct	-18.74	
For >5,000, Deduct	-29.28	
33 01 30 71-0113 LF 60" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	303.63	
For Up To 75, Add	62.90	
For >75 To 150, Add	30.36	
For >500 To 1,000, Deduct	-6.94	
For >1,000 To 2,000, Deduct	-13.66	
For >2,000 To 5,000, Deduct	-20.82	
For >5,000, Deduct	-32.53	
33 01 30 71-0114 LF 66" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	333.99	
For Up To 75, Add	69.19	
For >75 To 150, Add	33.40	
For >500 To 1,000, Deduct	-7.63	
For >1,000 To 2,000, Deduct	-15.03	
For >2,000 To 5,000, Deduct	-22.90	
For >5,000, Deduct	-35.79	
33 01 30 71-0115 LF 72" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	364.36	
For Up To 75, Add	75.48	
For >75 To 150, Add	36.44	
For >500 To 1,000, Deduct	-8.33	
For >1,000 To 2,000, Deduct	-16.40	
For >2,000 To 5,000, Deduct	-24.99	
For >5,000, Deduct	-39.04	
33 01 30 71-0116 LF 78" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	394.72	
For Up To 75, Add	81.77	
For >75 To 150, Add	39.47	
For >500 To 1,000, Deduct	-9.02	
For >1,000 To 2,000, Deduct	-17.76	
For >2,000 To 5,000, Deduct	-27.07	
For >5,000, Deduct	-42.29	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0117 LF 84" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	425.07	
<i>For Up To 75, Add</i>	88.05	
<i>For &gt;75 To 150, Add</i>	42.51	
<i>For &gt;500 To 1,000, Deduct</i>	-9.72	
<i>For &gt;1,000 To 2,000, Deduct</i>	-19.13	
<i>For &gt;2,000 To 5,000, Deduct</i>	-29.15	
<i>For &gt;5,000, Deduct</i>	-45.54	
33 01 30 71-0118 LF 90" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	455.45	
<i>For Up To 75, Add</i>	94.35	
<i>For &gt;75 To 150, Add</i>	45.55	
<i>For &gt;500 To 1,000, Deduct</i>	-10.41	
<i>For &gt;1,000 To 2,000, Deduct</i>	-20.50	
<i>For &gt;2,000 To 5,000, Deduct</i>	-31.23	
<i>For &gt;5,000, Deduct</i>	-48.80	
33 01 30 71-0119 LF 96" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	485.80	
<i>For Up To 75, Add</i>	100.63	
<i>For &gt;75 To 150, Add</i>	48.58	
<i>For &gt;500 To 1,000, Deduct</i>	-11.10	
<i>For &gt;1,000 To 2,000, Deduct</i>	-21.86	
<i>For &gt;2,000 To 5,000, Deduct</i>	-33.31	
<i>For &gt;5,000, Deduct</i>	-52.05	
33 01 30 71-0120 LF 102" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	516.17	
<i>For Up To 75, Add</i>	106.92	
<i>For &gt;75 To 150, Add</i>	51.62	
<i>For &gt;500 To 1,000, Deduct</i>	-11.80	
<i>For &gt;1,000 To 2,000, Deduct</i>	-23.23	
<i>For &gt;2,000 To 5,000, Deduct</i>	-35.40	
<i>For &gt;5,000, Deduct</i>	-55.31	
33 01 30 71-0121 LF 108" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	546.53	
<i>For Up To 75, Add</i>	113.21	
<i>For &gt;75 To 150, Add</i>	54.65	
<i>For &gt;500 To 1,000, Deduct</i>	-12.49	
<i>For &gt;1,000 To 2,000, Deduct</i>	-24.60	
<i>For &gt;2,000 To 5,000, Deduct</i>	-37.48	
<i>For &gt;5,000, Deduct</i>	-58.56	
33 01 30 71-0122 LF 114" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	576.89	
<i>For Up To 75, Add</i>	119.50	
<i>For &gt;75 To 150, Add</i>	57.69	
<i>For &gt;500 To 1,000, Deduct</i>	-13.19	
<i>For &gt;1,000 To 2,000, Deduct</i>	-25.96	
<i>For &gt;2,000 To 5,000, Deduct</i>	-39.56	
<i>For &gt;5,000, Deduct</i>	-61.81	
33 01 30 71-0123 LF 120" Diameter Pipe Lining, Spray Applied With 400 mil Structural Polyurethane .....	607.26	
<i>For Up To 75, Add</i>	125.79	
<i>For &gt;75 To 150, Add</i>	60.73	
<i>For &gt;500 To 1,000, Deduct</i>	-13.88	
<i>For &gt;1,000 To 2,000, Deduct</i>	-27.33	
<i>For &gt;2,000 To 5,000, Deduct</i>	-41.64	
<i>For &gt;5,000, Deduct</i>	-65.07	
33 01 30 71-0124 SF Structure Lining, Spray Applied With 400 mil Structural Polyurethane .....	19.33	
<b>33 01 30 71-0125 Lining Pipe, Spray Applied With 500 mil Structural Polyurethane</b> <small>(33 01 30 71-0020)</small>		
Note: Two part structural polyurethane.		
33 01 30 71-0126 LF 36" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	224.10	
<i>For Up To 75, Add</i>	46.27	
<i>For &gt;75 To 150, Add</i>	22.41	
<i>For &gt;500 To 1,000, Deduct</i>	-5.06	
<i>For &gt;1,000 To 2,000, Deduct</i>	-9.98	
<i>For &gt;2,000 To 5,000, Deduct</i>	-15.18	
<i>For &gt;5,000, Deduct</i>	-23.86	
33 01 30 71-0127 LF 42" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	261.45	
<i>For Up To 75, Add</i>	53.98	
<i>For &gt;75 To 150, Add</i>	26.15	
<i>For &gt;500 To 1,000, Deduct</i>	-5.90	
<i>For &gt;1,000 To 2,000, Deduct</i>	-11.64	
<i>For &gt;2,000 To 5,000, Deduct</i>	-17.71	
<i>For &gt;5,000, Deduct</i>	-27.83	
33 01 30 71-0128 LF 48" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	298.80	
<i>For Up To 75, Add</i>	61.69	
<i>For &gt;75 To 150, Add</i>	29.88	
<i>For &gt;500 To 1,000, Deduct</i>	-6.75	
<i>For &gt;1,000 To 2,000, Deduct</i>	-13.30	
<i>For &gt;2,000 To 5,000, Deduct</i>	-20.24	
<i>For &gt;5,000, Deduct</i>	-31.81	
33 01 30 71-0129 LF 54" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	336.16	
<i>For Up To 75, Add</i>	69.40	
<i>For &gt;75 To 150, Add</i>	33.62	
<i>For &gt;500 To 1,000, Deduct</i>	-7.59	
<i>For &gt;1,000 To 2,000, Deduct</i>	-14.97	
<i>For &gt;2,000 To 5,000, Deduct</i>	-22.77	
<i>For &gt;5,000, Deduct</i>	-35.79	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 71-0130 LF 60" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	373.51	
For Up To 75, Add	77.11	
For >75 To 150, Add	37.35	
For >500 To 1,000, Deduct	-8.43	
For >1,000 To 2,000, Deduct	-16.63	
For >2,000 To 5,000, Deduct	-25.30	
For >5,000, Deduct	-39.76	
33 01 30 71-0131 LF 66" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	410.86	
For Up To 75, Add	84.82	
For >75 To 150, Add	41.09	
For >500 To 1,000, Deduct	-9.28	
For >1,000 To 2,000, Deduct	-18.29	
For >2,000 To 5,000, Deduct	-27.83	
For >5,000, Deduct	-43.74	
33 01 30 71-0132 LF 72" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	448.21	
For Up To 75, Add	92.54	
For >75 To 150, Add	44.82	
For >500 To 1,000, Deduct	-10.12	
For >1,000 To 2,000, Deduct	-19.95	
For >2,000 To 5,000, Deduct	-30.36	
For >5,000, Deduct	-47.71	
33 01 30 71-0133 LF 78" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	485.56	
For Up To 75, Add	100.25	
For >75 To 150, Add	48.56	
For >500 To 1,000, Deduct	-10.96	
For >1,000 To 2,000, Deduct	-21.62	
For >2,000 To 5,000, Deduct	-32.89	
For >5,000, Deduct	-51.69	
33 01 30 71-0134 LF 84" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	522.90	
For Up To 75, Add	107.96	
For >75 To 150, Add	52.29	
For >500 To 1,000, Deduct	-11.81	
For >1,000 To 2,000, Deduct	-23.28	
For >2,000 To 5,000, Deduct	-35.42	
For >5,000, Deduct	-55.67	
33 01 30 71-0135 LF 90" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	560.26	
For Up To 75, Add	115.67	
For >75 To 150, Add	56.03	
For >500 To 1,000, Deduct	-12.65	
For >1,000 To 2,000, Deduct	-24.94	
For >2,000 To 5,000, Deduct	-37.96	
For >5,000, Deduct	-59.64	
33 01 30 71-0136 LF 96" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	597.61	
For Up To 75, Add	123.38	
For >75 To 150, Add	59.76	
For >500 To 1,000, Deduct	-13.50	
For >1,000 To 2,000, Deduct	-26.60	
For >2,000 To 5,000, Deduct	-40.49	
For >5,000, Deduct	-63.62	
33 01 30 71-0137 LF 102" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	634.96	
For Up To 75, Add	131.09	
For >75 To 150, Add	63.50	
For >500 To 1,000, Deduct	-14.34	
For >1,000 To 2,000, Deduct	-28.27	
For >2,000 To 5,000, Deduct	-43.02	
For >5,000, Deduct	-67.59	
33 01 30 71-0138 LF 108" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	672.32	
For Up To 75, Add	138.80	
For >75 To 150, Add	67.23	
For >500 To 1,000, Deduct	-15.18	
For >1,000 To 2,000, Deduct	-29.93	
For >2,000 To 5,000, Deduct	-45.55	
For >5,000, Deduct	-71.57	
33 01 30 71-0139 LF 114" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	709.67	
For Up To 75, Add	146.52	
For >75 To 150, Add	70.97	
For >500 To 1,000, Deduct	-16.03	
For >1,000 To 2,000, Deduct	-31.59	
For >2,000 To 5,000, Deduct	-48.08	
For >5,000, Deduct	-75.55	
33 01 30 71-0140 LF 120" Diameter Pipe Lining, Spray Applied With 500 mil Structural Polyurethane .....	747.01	
For Up To 75, Add	154.22	
For >75 To 150, Add	74.70	
For >500 To 1,000, Deduct	-16.87	
For >1,000 To 2,000, Deduct	-33.26	
For >2,000 To 5,000, Deduct	-50.61	
For >5,000, Deduct	-79.52	
33 01 30 71-0141 SF Structure Lining, Spray Applied With 500 mil Structural Polyurethane .....	23.78	

**33 01 30 72 Cured-in-Place Pipe Lining (33 01 30)**

33 01 30 72-0001 Cured-In-Place Pipe (CIPP) Relining Underground Pipelines (33 01 30 72)

Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.

33 01 30 72-0002 Cured In-Place Pipe (CIPP) Lining Set-Up And Reinsertion (33 01 30 72-0001)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0003 EA Initial Set Up And Final Equipment Removal For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,686.52	
33 01 30 72-0004 EA Initial Set Up And Final Equipment Removal For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,810.86	
33 01 30 72-0005 EA Initial Set Up And Final Equipment Removal For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	4,216.29	
33 01 30 72-0006 EA Initial Set Up And Final Equipment Removal For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	5,621.72	
33 01 30 72-0007 EA Move And Reset Up At Different Access/Location For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP).....	843.25	
33 01 30 72-0008 EA Move And Reset Up At Different Access/Location For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,405.43	
33 01 30 72-0009 EA Move And Reset Up At Different Access/Location For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	1,756.78	
33 01 30 72-0010 EA Move And Reset Up At Different Access/Location For Relining > 48" Underground Pipelines Cured In-Place Pipe (CIPP).....	2,248.68	
33 01 30 72-0011 EA Mixing Truck And Refrigeration For Relining Up To 12" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	1,405.43	
33 01 30 72-0012 EA Mixing Truck And Refrigeration For Relining >12" To 24" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	3,373.02	
33 01 30 72-0013 EA Mixing Truck And Refrigeration For Relining >24" To 48" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	5,621.72	
33 01 30 72-0014 EA Mixing Truck And Refrigeration For Relining >48" Underground Pipelines Cured In-Place Pipe (CIPP)..... Note: Need to mix wet material in bag prior to installation.	8,432.57	
 <b>33 01 30 72-0015 Lining Pipe With Polyester Resin Impregnated Cured In-Place Pipe (CIPP)</b> <small>(33 01 30 72-0001)</small> Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection, culvert cleaning and grouting. Use round equivalent pipe sizes for elliptical, oval or arched pipe.		
<b>33 01 30 72-0016 4.5mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0017 LF 4.5mm Lining 2" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	23.87	
For Vinylster Resin, Add	6.38	
For Epoxy Resin, Add	0.75	
For Up To >10, Add	48.84	
For >10 To 25, Add	39.18	
For >25 To 50, Add	23.96	
For >50 To 100, Add	11.98	
For >500 To 1,000, Deduct	-1.56	
For >1,000 To 2,000, Deduct	-2.53	
For >2,000 To 5,000, Deduct	-4.78	
For >5,000, Deduct	-7.73	
33 01 30 72-0018 LF 4.5mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	28.86	
For Vinylster Resin, Add	9.87	
For Epoxy Resin, Add	1.16	
For Up To >10, Add	51.33	
For >10 To 25, Add	40.43	
For >25 To 50, Add	24.96	
For >50 To 100, Add	12.48	
For >500 To 1,000, Deduct	-1.81	
For >1,000 To 2,000, Deduct	-2.90	
For >2,000 To 5,000, Deduct	-5.38	
For >5,000, Deduct	-8.72	
33 01 30 72-0019 LF 4.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	33.86	
For Vinylster Resin, Add	13.37	
For Epoxy Resin, Add	1.58	
For Up To >10, Add	53.83	
For >10 To 25, Add	41.68	
For >25 To 50, Add	25.96	
For >50 To 100, Add	12.98	
For >500 To 1,000, Deduct	-2.06	
For >1,000 To 2,000, Deduct	-3.28	
For >2,000 To 5,000, Deduct	-5.98	
For >5,000, Deduct	-9.72	
33 01 30 72-0020 LF 4.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	45.25	
For Vinylster Resin, Add	20.36	
For Epoxy Resin, Add	2.40	
For Up To >10, Add	63.03	
For >10 To 25, Add	47.67	
For >25 To 50, Add	30.06	
For >50 To 100, Add	15.03	
For >500 To 1,000, Deduct	-2.67	
For >1,000 To 2,000, Deduct	-4.20	
For >2,000 To 5,000, Deduct	-7.53	
For >5,000, Deduct	-12.28	
33 01 30 72-0021 LF 4.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	56.64	
For Vinylster Resin, Add	27.36	
For Epoxy Resin, Add	3.22	
For Up To >10, Add	72.22	
For >10 To 25, Add	53.67	
For >25 To 50, Add	34.16	
For >50 To 100, Add	17.08	
For >500 To 1,000, Deduct	-3.27	
For >1,000 To 2,000, Deduct	-5.13	
For >2,000 To 5,000, Deduct	-9.08	
For >5,000, Deduct	-14.84	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 01 30 72-0022 6mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0023 LF 6mm Lining 3" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	33.17	
For Vinlyester Resin, Add	12.89	
For Epoxy Resin, Add	1.52	
For Up To >10, Add	53.49	
For >10 To 25, Add	41.50	
For >25 To 50, Add	25.82	
For >50 To 100, Add	12.91	
For >500 To 1,000, Deduct	-2.03	
For >1,000 To 2,000, Deduct	-3.23	
For >2,000 To 5,000, Deduct	-5.90	
For >5,000, Deduct	-9.59	
33 01 30 72-0024 LF 6mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	39.83	
For Vinlyester Resin, Add	17.55	
For Epoxy Resin, Add	2.07	
For Up To >10, Add	56.82	
For >10 To 25, Add	43.17	
For >25 To 50, Add	27.15	
For >50 To 100, Add	13.58	
For >500 To 1,000, Deduct	-2.36	
For >1,000 To 2,000, Deduct	-3.73	
For >2,000 To 5,000, Deduct	-6.70	
For >5,000, Deduct	-10.92	
33 01 30 72-0025 LF 6mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	54.55	
For Vinlyester Resin, Add	26.87	
For Epoxy Resin, Add	3.17	
For Up To >10, Add	67.68	
For >10 To 25, Add	50.00	
For >25 To 50, Add	31.92	
For >50 To 100, Add	15.96	
For >500 To 1,000, Deduct	-3.13	
For >1,000 To 2,000, Deduct	-4.90	
For >2,000 To 5,000, Deduct	-8.65	
For >5,000, Deduct	-14.14	
33 01 30 72-0026 LF 6mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	69.28	
For Vinlyester Resin, Add	36.20	
For Epoxy Resin, Add	4.27	
For Up To >10, Add	78.54	
For >10 To 25, Add	56.83	
For >25 To 50, Add	36.68	
For >50 To 100, Add	18.34	
For >500 To 1,000, Deduct	-3.90	
For >1,000 To 2,000, Deduct	-6.07	
For >2,000 To 5,000, Deduct	-10.60	
For >5,000, Deduct	-17.37	
33 01 30 72-0027 LF 6mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	84.16	
For Vinlyester Resin, Add	45.53	
For Epoxy Resin, Add	5.37	
For Up To >10, Add	89.88	
For >10 To 25, Add	64.06	
For >25 To 50, Add	41.69	
For >50 To 100, Add	20.84	
For >500 To 1,000, Deduct	-4.69	
For >1,000 To 2,000, Deduct	-7.27	
For >2,000 To 5,000, Deduct	-12.58	
For >5,000, Deduct	-20.66	
33 01 30 72-0028 LF 6mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	99.45	
For Vinlyester Resin, Add	54.85	
For Epoxy Resin, Add	6.46	
For Up To >10, Add	102.45	
For >10 To 25, Add	72.32	
For >25 To 50, Add	47.31	
For >50 To 100, Add	23.65	
For >500 To 1,000, Deduct	-5.50	
For >1,000 To 2,000, Deduct	-8.51	
For >2,000 To 5,000, Deduct	-14.68	
For >5,000, Deduct	-24.11	
<b>33 01 30 72-0029 7.5mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0030 LF 7.5mm Lining 4" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	45.61	
For Vinlyester Resin, Add	21.60	
For Epoxy Resin, Add	2.55	
For Up To >10, Add	59.71	
For >10 To 25, Add	44.61	
For >25 To 50, Add	28.31	
For >50 To 100, Add	14.16	
For >500 To 1,000, Deduct	-2.65	
For >1,000 To 2,000, Deduct	-4.16	
For >2,000 To 5,000, Deduct	-7.39	
For >5,000, Deduct	-12.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0031 LF 7.5mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	63.66	
<i>For Vinlyester Resin, Add</i>	33.25	
<i>For Epoxy Resin, Add</i>	3.92	
<i>For Up To &gt;10, Add</i>	72.23	
<i>For &gt;10 To 25, Add</i>	52.28	
<i>For &gt;25 To 50, Add</i>	33.74	
<i>For &gt;50 To 100, Add</i>	16.87	
<i>For &gt;500 To 1,000, Deduct</i>	-3.59	
<i>For &gt;1,000 To 2,000, Deduct</i>	-5.58	
<i>For &gt;2,000 To 5,000, Deduct</i>	-9.74	
<i>For &gt;5,000, Deduct</i>	-15.96	
33 01 30 72-0032 LF 7.5mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	81.71	
<i>For Vinlyester Resin, Add</i>	44.91	
<i>For Epoxy Resin, Add</i>	5.29	
<i>For Up To &gt;10, Add</i>	84.76	
<i>For &gt;10 To 25, Add</i>	59.94	
<i>For &gt;25 To 50, Add</i>	39.17	
<i>For &gt;50 To 100, Add</i>	19.59	
<i>For &gt;500 To 1,000, Deduct</i>	-4.52	
<i>For &gt;1,000 To 2,000, Deduct</i>	-7.01	
<i>For &gt;2,000 To 5,000, Deduct</i>	-12.09	
<i>For &gt;5,000, Deduct</i>	-19.85	
33 01 30 72-0033 LF 7.5mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	99.92	
<i>For Vinlyester Resin, Add</i>	56.56	
<i>For Epoxy Resin, Add</i>	6.67	
<i>For Up To &gt;10, Add</i>	97.76	
<i>For &gt;10 To 25, Add</i>	68.00	
<i>For &gt;25 To 50, Add</i>	44.84	
<i>For &gt;50 To 100, Add</i>	22.42	
<i>For &gt;500 To 1,000, Deduct</i>	-5.47	
<i>For &gt;1,000 To 2,000, Deduct</i>	-8.45	
<i>For &gt;2,000 To 5,000, Deduct</i>	-14.48	
<i>For &gt;5,000, Deduct</i>	-23.81	
33 01 30 72-0034 LF 7.5mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	118.54	
<i>For Vinlyester Resin, Add</i>	68.22	
<i>For Epoxy Resin, Add</i>	8.04	
<i>For Up To &gt;10, Add</i>	112.00	
<i>For &gt;10 To 25, Add</i>	77.09	
<i>For &gt;25 To 50, Add</i>	51.13	
<i>For &gt;50 To 100, Add</i>	25.56	
<i>For &gt;500 To 1,000, Deduct</i>	-6.45	
<i>For &gt;1,000 To 2,000, Deduct</i>	-9.95	
<i>For &gt;2,000 To 5,000, Deduct</i>	-16.97	
<i>For &gt;5,000, Deduct</i>	-27.93	
33 01 30 72-0035 LF 7.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	146.33	
<i>For Vinlyester Resin, Add</i>	85.71	
<i>For Epoxy Resin, Add</i>	10.10	
<i>For Up To &gt;10, Add</i>	132.89	
<i>For &gt;10 To 25, Add</i>	90.34	
<i>For &gt;25 To 50, Add</i>	60.32	
<i>For &gt;50 To 100, Add</i>	30.16	
<i>For &gt;500 To 1,000, Deduct</i>	-7.91	
<i>For &gt;1,000 To 2,000, Deduct</i>	-12.17	
<i>For &gt;2,000 To 5,000, Deduct</i>	-20.67	
<i>For &gt;5,000, Deduct</i>	-34.04	
33 01 30 72-0036 LF 7.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	174.40	
<i>For Vinlyester Resin, Add</i>	103.19	
<i>For Epoxy Resin, Add</i>	12.16	
<i>For Up To &gt;10, Add</i>	154.68	
<i>For &gt;10 To 25, Add</i>	104.33	
<i>For &gt;25 To 50, Add</i>	69.97	
<i>For &gt;50 To 100, Add</i>	34.98	
<i>For &gt;500 To 1,000, Deduct</i>	-9.39	
<i>For &gt;1,000 To 2,000, Deduct</i>	-14.43	
<i>For &gt;2,000 To 5,000, Deduct</i>	-24.44	
<i>For &gt;5,000, Deduct</i>	-40.28	
<b>33 01 30 72-0037 9mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0038 LF 9mm Lining 6" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	72.57	
<i>For Vinlyester Resin, Add</i>	39.49	
<i>For Epoxy Resin, Add</i>	4.65	
<i>For Up To &gt;10, Add</i>	76.69	
<i>For &gt;10 To 25, Add</i>	54.50	
<i>For &gt;25 To 50, Add</i>	35.52	
<i>For &gt;50 To 100, Add</i>	17.76	
<i>For &gt;500 To 1,000, Deduct</i>	-4.03	
<i>For &gt;1,000 To 2,000, Deduct</i>	-6.25	
<i>For &gt;2,000 To 5,000, Deduct</i>	-10.81	
<i>For &gt;5,000, Deduct</i>	-17.75	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0039 LF 9mm Lining 8" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	93.95	
For Vinlyester Resin, Add	53.47	
For Epoxy Resin, Add	6.30	
For Up To >10, Add	90.88	
For >10 To 25, Add	63.00	
For >25 To 50, Add	41.62	
For >50 To 100, Add	20.81	
For >500 To 1,000, Deduct	-5.14	
For >1,000 To 2,000, Deduct	-7.92	
For >2,000 To 5,000, Deduct	-13.56	
For >5,000, Deduct	-22.30	
33 01 30 72-0040 LF 9mm Lining 10" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	115.50	
For Vinlyester Resin, Add	67.47	
For Epoxy Resin, Add	7.95	
For Up To >10, Add	105.55	
For >10 To 25, Add	71.90	
For >25 To 50, Add	47.96	
For >50 To 100, Add	23.98	
For >500 To 1,000, Deduct	-6.25	
For >1,000 To 2,000, Deduct	-9.62	
For >2,000 To 5,000, Deduct	-16.35	
For >5,000, Deduct	-26.92	
33 01 30 72-0041 LF 9mm Lining 12" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	137.45	
For Vinlyester Resin, Add	81.45	
For Epoxy Resin, Add	9.60	
For Up To >10, Add	121.45	
For >10 To 25, Add	81.82	
For >25 To 50, Add	54.91	
For >50 To 100, Add	27.45	
For >500 To 1,000, Deduct	-7.40	
For >1,000 To 2,000, Deduct	-11.36	
For >2,000 To 5,000, Deduct	-19.24	
For >5,000, Deduct	-31.71	
33 01 30 72-0042 LF 9mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	170.22	
For Vinlyester Resin, Add	102.43	
For Epoxy Resin, Add	12.07	
For Up To >10, Add	144.84	
For >10 To 25, Add	96.31	
For >25 To 50, Add	65.10	
For >50 To 100, Add	32.55	
For >500 To 1,000, Deduct	-9.11	
For >1,000 To 2,000, Deduct	-13.96	
For >2,000 To 5,000, Deduct	-23.53	
For >5,000, Deduct	-38.82	
33 01 30 72-0043 LF 9mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	203.30	
For Vinlyester Resin, Add	123.42	
For Epoxy Resin, Add	14.55	
For Up To >10, Add	169.13	
For >10 To 25, Add	111.55	
For >25 To 50, Add	75.75	
For >50 To 100, Add	37.87	
For >500 To 1,000, Deduct	-10.84	
For >1,000 To 2,000, Deduct	-16.60	
For >2,000 To 5,000, Deduct	-27.90	
For >5,000, Deduct	-46.06	
33 01 30 72-0044 LF 9mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	235.51	
For Vinlyester Resin, Add	144.40	
For Epoxy Resin, Add	17.02	
For Up To >10, Add	190.83	
For >10 To 25, Add	124.65	
For >25 To 50, Add	85.10	
For >50 To 100, Add	42.55	
For >500 To 1,000, Deduct	-12.51	
For >1,000 To 2,000, Deduct	-19.12	
For >2,000 To 5,000, Deduct	-32.06	
For >5,000, Deduct	-52.95	
33 01 30 72-0045 LF 9mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	268.16	
For Vinlyester Resin, Add	165.38	
For Epoxy Resin, Add	19.49	
For Up To >10, Add	213.83	
For >10 To 25, Add	138.82	
For >25 To 50, Add	95.10	
For >50 To 100, Add	47.55	
For >500 To 1,000, Deduct	-14.21	
For >1,000 To 2,000, Deduct	-21.71	
For >2,000 To 5,000, Deduct	-36.33	
For >5,000, Deduct	-60.01	

33 01 30 72-0046 10.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0047 LF 10.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	193.92	
For Vinlyester Resin, Add	119.02	
For Epoxy Resin, Add	14.03	
For Up To >10, Add	156.69	
For >10 To 25, Add	102.23	
For >25 To 50, Add	69.84	
For >50 To 100, Add	34.92	
For >500 To 1,000, Deduct	-10.29	
For >1,000 To 2,000, Deduct	-15.74	
For >2,000 To 5,000, Deduct	-26.38	
For >5,000, Deduct	-43.56	
33 01 30 72-0048 LF 10.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	231.99	
For Vinlyester Resin, Add	143.50	
For Epoxy Resin, Add	16.91	
For Up To >10, Add	183.47	
For >10 To 25, Add	118.73	
For >25 To 50, Add	81.49	
For >50 To 100, Add	40.74	
For >500 To 1,000, Deduct	-12.27	
For >1,000 To 2,000, Deduct	-18.75	
For >2,000 To 5,000, Deduct	-31.35	
For >5,000, Deduct	-51.80	
33 01 30 72-0049 LF 10.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	269.20	
For Vinlyester Resin, Add	167.98	
For Epoxy Resin, Add	19.80	
For Up To >10, Add	207.68	
For >10 To 25, Add	133.07	
For >25 To 50, Add	91.84	
For >50 To 100, Add	45.92	
For >500 To 1,000, Deduct	-14.19	
For >1,000 To 2,000, Deduct	-21.65	
For >2,000 To 5,000, Deduct	-36.10	
For >5,000, Deduct	-59.69	
33 01 30 72-0050 LF 10.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	306.84	
For Vinlyester Resin, Add	192.46	
For Epoxy Resin, Add	22.68	
For Up To >10, Add	233.17	
For >10 To 25, Add	148.49	
For >25 To 50, Add	102.84	
For >50 To 100, Add	51.42	
For >500 To 1,000, Deduct	-16.14	
For >1,000 To 2,000, Deduct	-24.61	
For >2,000 To 5,000, Deduct	-40.97	
For >5,000, Deduct	-67.75	
33 01 30 72-0051 LF 10.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	345.05	
For Vinlyester Resin, Add	216.94	
For Epoxy Resin, Add	25.57	
For Up To >10, Add	260.38	
For >10 To 25, Add	165.33	
For >25 To 50, Add	114.69	
For >50 To 100, Add	57.35	
For >500 To 1,000, Deduct	-18.13	
For >1,000 To 2,000, Deduct	-27.64	
For >2,000 To 5,000, Deduct	-45.97	
For >5,000, Deduct	-76.04	
33 01 30 72-0052 LF 10.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	383.96	
For Vinlyester Resin, Add	241.42	
For Epoxy Resin, Add	28.45	
For Up To >10, Add	289.66	
For >10 To 25, Add	183.90	
For >25 To 50, Add	127.58	
For >50 To 100, Add	63.79	
For >500 To 1,000, Deduct	-20.17	
For >1,000 To 2,000, Deduct	-30.75	
For >2,000 To 5,000, Deduct	-51.15	
For >5,000, Deduct	-84.61	
33 01 30 72-0053 LF 10.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	458.81	
For Vinlyester Resin, Add	290.37	
For Epoxy Resin, Add	34.22	
For Up To >10, Add	339.38	
For >10 To 25, Add	213.68	
For >25 To 50, Add	148.95	
For >50 To 100, Add	74.47	
For >500 To 1,000, Deduct	-24.04	
For >1,000 To 2,000, Deduct	-36.61	
For >2,000 To 5,000, Deduct	-60.78	
For >5,000, Deduct	-100.56	

33 01 30 72-0054 12mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0055 LF 12mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	217.42	
For Vinlyester Resin, Add	135.47	
For Epoxy Resin, Add	15.97	
For Up To >10, Add	168.44	
For >10 To 25, Add	108.11	
For >25 To 50, Add	74.54	
For >50 To 100, Add	37.27	
For >500 To 1,000, Deduct	-11.47	
For >1,000 To 2,000, Deduct	-17.50	
For >2,000 To 5,000, Deduct	-29.20	
For >5,000, Deduct	-48.26	
33 01 30 72-0056 LF 12mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	260.49	
For Vinlyester Resin, Add	163.45	
For Epoxy Resin, Add	19.26	
For Up To >10, Add	197.72	
For >10 To 25, Add	125.85	
For >25 To 50, Add	87.19	
For >50 To 100, Add	43.59	
For >500 To 1,000, Deduct	-13.70	
For >1,000 To 2,000, Deduct	-20.89	
For >2,000 To 5,000, Deduct	-34.77	
For >5,000, Deduct	-57.50	
33 01 30 72-0057 LF 12mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	302.70	
For Vinlyester Resin, Add	191.43	
For Epoxy Resin, Add	22.56	
For Up To >10, Add	224.43	
For >10 To 25, Add	141.44	
For >25 To 50, Add	98.54	
For >50 To 100, Add	49.27	
For >500 To 1,000, Deduct	-15.87	
For >1,000 To 2,000, Deduct	-24.16	
For >2,000 To 5,000, Deduct	-40.12	
For >5,000, Deduct	-66.39	
33 01 30 72-0058 LF 12mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	345.33	
For Vinlyester Resin, Add	219.40	
For Epoxy Resin, Add	25.86	
For Up To >10, Add	252.42	
For >10 To 25, Add	158.11	
For >25 To 50, Add	110.54	
For >50 To 100, Add	55.27	
For >500 To 1,000, Deduct	-18.06	
For >1,000 To 2,000, Deduct	-27.49	
For >2,000 To 5,000, Deduct	-45.59	
For >5,000, Deduct	-75.45	
33 01 30 72-0059 LF 12mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	388.54	
For Vinlyester Resin, Add	247.38	
For Epoxy Resin, Add	29.16	
For Up To >10, Add	282.12	
For >10 To 25, Add	176.20	
For >25 To 50, Add	123.39	
For >50 To 100, Add	61.70	
For >500 To 1,000, Deduct	-20.31	
For >1,000 To 2,000, Deduct	-30.90	
For >2,000 To 5,000, Deduct	-51.19	
For >5,000, Deduct	-84.74	
33 01 30 72-0060 LF 12mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	432.43	
For Vinlyester Resin, Add	275.35	
For Epoxy Resin, Add	32.45	
For Up To >10, Add	313.89	
For >10 To 25, Add	196.02	
For >25 To 50, Add	137.28	
For >50 To 100, Add	68.64	
For >500 To 1,000, Deduct	-22.60	
For >1,000 To 2,000, Deduct	-34.39	
For >2,000 To 5,000, Deduct	-56.97	
For >5,000, Deduct	-94.30	
33 01 30 72-0061 LF 12mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	517.29	
For Vinlyester Resin, Add	331.31	
For Epoxy Resin, Add	39.05	
For Up To >10, Add	368.62	
For >10 To 25, Add	228.30	
For >25 To 50, Add	160.65	
For >50 To 100, Add	80.32	
For >500 To 1,000, Deduct	-26.96	
For >1,000 To 2,000, Deduct	-41.00	
For >2,000 To 5,000, Deduct	-67.79	
For >5,000, Deduct	-112.26	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0062 LF 12mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	603.41	
For Vinylster Resin, Add	387.26	
For Epoxy Resin, Add	45.64	
For Up To >10, Add	427.16	
For >10 To 25, Add	263.76	
For >25 To 50, Add	185.92	
For >50 To 100, Add	92.96	
For >500 To 1,000, Deduct	-31.43	
For >1,000 To 2,000, Deduct	-47.76	
For >2,000 To 5,000, Deduct	-78.93	
For >5,000, Deduct	-130.72	
33 01 30 72-0063 LF 12mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	691.76	
For Vinylster Resin, Add	443.21	
For Epoxy Resin, Add	52.24	
For Up To >10, Add	492.38	
For >10 To 25, Add	304.79	
For >25 To 50, Add	214.53	
For >50 To 100, Add	107.27	
For >500 To 1,000, Deduct	-36.05	
For >1,000 To 2,000, Deduct	-54.81	
For >2,000 To 5,000, Deduct	-90.63	
For >5,000, Deduct	-150.07	
<b>33 01 30 72-0064 13.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0065 LF 13.5mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	240.73	
For Vinylster Resin, Add	151.79	
For Epoxy Resin, Add	17.89	
For Up To >10, Add	180.09	
For >10 To 25, Add	113.94	
For >25 To 50, Add	79.20	
For >50 To 100, Add	39.60	
For >500 To 1,000, Deduct	-12.63	
For >1,000 To 2,000, Deduct	-19.25	
For >2,000 To 5,000, Deduct	-31.99	
For >5,000, Deduct	-52.92	
33 01 30 72-0066 LF 13.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	288.80	
For Vinylster Resin, Add	183.27	
For Epoxy Resin, Add	21.60	
For Up To >10, Add	211.88	
For >10 To 25, Add	132.93	
For >25 To 50, Add	92.85	
For >50 To 100, Add	46.42	
For >500 To 1,000, Deduct	-15.11	
For >1,000 To 2,000, Deduct	-23.01	
For >2,000 To 5,000, Deduct	-38.16	
For >5,000, Deduct	-63.16	
33 01 30 72-0067 LF 13.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	336.00	
For Vinylster Resin, Add	214.74	
For Epoxy Resin, Add	25.31	
For Up To >10, Add	241.08	
For >10 To 25, Add	149.77	
For >25 To 50, Add	105.20	
For >50 To 100, Add	52.60	
For >500 To 1,000, Deduct	-17.53	
For >1,000 To 2,000, Deduct	-26.66	
For >2,000 To 5,000, Deduct	-44.12	
For >5,000, Deduct	-73.05	
33 01 30 72-0068 LF 13.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	383.63	
For Vinylster Resin, Add	246.21	
For Epoxy Resin, Add	29.02	
For Up To >10, Add	271.57	
For >10 To 25, Add	167.68	
For >25 To 50, Add	118.20	
For >50 To 100, Add	59.10	
For >500 To 1,000, Deduct	-19.98	
For >1,000 To 2,000, Deduct	-30.37	
For >2,000 To 5,000, Deduct	-50.18	
For >5,000, Deduct	-83.11	
33 01 30 72-0069 LF 13.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	431.83	
For Vinylster Resin, Add	277.68	
For Epoxy Resin, Add	32.73	
For Up To >10, Add	303.77	
For >10 To 25, Add	187.02	
For >25 To 50, Add	132.05	
For >50 To 100, Add	66.02	
For >500 To 1,000, Deduct	-22.47	
For >1,000 To 2,000, Deduct	-34.14	
For >2,000 To 5,000, Deduct	-56.39	
For >5,000, Deduct	-93.39	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0070 LF 13.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	480.72	
For Vinlyester Resin, Add	309.16	
For Epoxy Resin, Add	36.44	
For Up To >10, Add	338.04	
For >10 To 25, Add	208.09	
For >25 To 50, Add	146.94	
For >50 To 100, Add	73.47	
For >500 To 1,000, Deduct	-25.01	
For >1,000 To 2,000, Deduct	-38.01	
For >2,000 To 5,000, Deduct	-62.77	
For >5,000, Deduct	-103.96	
33 01 30 72-0071 LF 13.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	575.56	
For Vinlyester Resin, Add	372.10	
For Epoxy Resin, Add	43.85	
For Up To >10, Add	397.76	
For >10 To 25, Add	242.87	
For >25 To 50, Add	172.30	
For >50 To 100, Add	86.15	
For >500 To 1,000, Deduct	-29.88	
For >1,000 To 2,000, Deduct	-45.37	
For >2,000 To 5,000, Deduct	-74.79	
For >5,000, Deduct	-123.91	
33 01 30 72-0072 LF 13.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	671.68	
For Vinlyester Resin, Add	435.05	
For Epoxy Resin, Add	51.27	
For Up To >10, Add	461.29	
For >10 To 25, Add	280.83	
For >25 To 50, Add	199.57	
For >50 To 100, Add	99.79	
For >500 To 1,000, Deduct	-34.84	
For >1,000 To 2,000, Deduct	-52.89	
For >2,000 To 5,000, Deduct	-87.13	
For >5,000, Deduct	-144.37	
33 01 30 72-0073 LF 13.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	770.02	
For Vinlyester Resin, Add	497.99	
For Epoxy Resin, Add	58.69	
For Up To >10, Add	531.51	
For >10 To 25, Add	324.36	
For >25 To 50, Add	230.18	
For >50 To 100, Add	115.09	
For >500 To 1,000, Deduct	-39.97	
For >1,000 To 2,000, Deduct	-60.68	
For >2,000 To 5,000, Deduct	-100.02	
For >5,000, Deduct	-165.72	
<b>33 01 30 72-0074 15mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....</b>	<b>263.84</b>	
33 01 30 72-0075 LF 15mm Lining 15" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	263.84	
For Vinlyester Resin, Add	167.97	
For Epoxy Resin, Add	19.80	
For Up To >10, Add	191.65	
For >10 To 25, Add	119.71	
For >25 To 50, Add	83.83	
For >50 To 100, Add	41.91	
For >500 To 1,000, Deduct	-13.79	
For >1,000 To 2,000, Deduct	-20.98	
For >2,000 To 5,000, Deduct	-34.77	
For >5,000, Deduct	-57.55	
33 01 30 72-0076 LF 15mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	316.90	
For Vinlyester Resin, Add	202.94	
For Epoxy Resin, Add	23.92	
For Up To >10, Add	225.93	
For >10 To 25, Add	139.95	
For >25 To 50, Add	98.47	
For >50 To 100, Add	49.23	
For >500 To 1,000, Deduct	-16.52	
For >1,000 To 2,000, Deduct	-25.12	
For >2,000 To 5,000, Deduct	-41.54	
For >5,000, Deduct	-68.78	
33 01 30 72-0077 LF 15mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	369.10	
For Vinlyester Resin, Add	237.91	
For Epoxy Resin, Add	28.04	
For Up To >10, Add	257.63	
For >10 To 25, Add	158.04	
For >25 To 50, Add	111.82	
For >50 To 100, Add	55.91	
For >500 To 1,000, Deduct	-19.19	
For >1,000 To 2,000, Deduct	-29.14	
For >2,000 To 5,000, Deduct	-48.09	
For >5,000, Deduct	-79.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0078 LF 15mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	421.72	
For Vinylster Resin, Add	272.87	
For Epoxy Resin, Add	32.16	
For Up To >10, Add	290.61	
For >10 To 25, Add	177.21	
For >25 To 50, Add	125.81	
For >50 To 100, Add	62.91	
For >500 To 1,000, Deduct	-21.88	
For >1,000 To 2,000, Deduct	-33.22	
For >2,000 To 5,000, Deduct	-54.75	
For >5,000, Deduct	-90.72	
33 01 30 72-0079 LF 15mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	474.92	
For Vinylster Resin, Add	307.85	
For Epoxy Resin, Add	36.28	
For Up To >10, Add	325.31	
For >10 To 25, Add	197.80	
For >25 To 50, Add	140.67	
For >50 To 100, Add	70.33	
For >500 To 1,000, Deduct	-24.62	
For >1,000 To 2,000, Deduct	-37.38	
For >2,000 To 5,000, Deduct	-61.56	
For >5,000, Deduct	-102.01	
33 01 30 72-0080 LF 15mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	528.81	
For Vinylster Resin, Add	342.82	
For Epoxy Resin, Add	40.40	
For Up To >10, Add	362.08	
For >10 To 25, Add	220.11	
For >25 To 50, Add	156.55	
For >50 To 100, Add	78.28	
For >500 To 1,000, Deduct	-27.42	
For >1,000 To 2,000, Deduct	-41.61	
For >2,000 To 5,000, Deduct	-68.54	
For >5,000, Deduct	-113.58	
33 01 30 72-0081 LF 15mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	633.64	
For Vinylster Resin, Add	412.76	
For Epoxy Resin, Add	48.65	
For Up To >10, Add	426.80	
For >10 To 25, Add	257.39	
For >25 To 50, Add	183.92	
For >50 To 100, Add	91.96	
For >500 To 1,000, Deduct	-32.78	
For >1,000 To 2,000, Deduct	-49.72	
For >2,000 To 5,000, Deduct	-81.76	
For >5,000, Deduct	-135.53	
33 01 30 72-0082 LF 15mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	739.75	
For Vinylster Resin, Add	482.70	
For Epoxy Resin, Add	56.89	
For Up To >10, Add	495.33	
For >10 To 25, Add	297.84	
For >25 To 50, Add	213.18	
For >50 To 100, Add	106.59	
For >500 To 1,000, Deduct	-38.24	
For >1,000 To 2,000, Deduct	-57.99	
For >2,000 To 5,000, Deduct	-95.29	
For >5,000, Deduct	-157.99	
33 01 30 72-0083 LF 15mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	848.08	
For Vinylster Resin, Add	552.64	
For Epoxy Resin, Add	65.13	
For Up To >10, Add	570.54	
For >10 To 25, Add	343.87	
For >25 To 50, Add	245.80	
For >50 To 100, Add	122.90	
For >500 To 1,000, Deduct	-43.87	
For >1,000 To 2,000, Deduct	-66.54	
For >2,000 To 5,000, Deduct	-109.39	
For >5,000, Deduct	-181.34	
<b>33 01 30 72-0084 16.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b> .....	<b>344.81</b>	
33 01 30 72-0085 LF 16.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	222.47	
For Vinylster Resin, Add	26.22	
For Epoxy Resin, Add	239.88	
For Up To >10, Add	146.93	
For >10 To 25, Add	104.05	
For >25 To 50, Add	52.02	
For >50 To 100, Add	-17.92	
For >500 To 1,000, Deduct	-27.21	
For >1,000 To 2,000, Deduct	-44.89	
For >2,000 To 5,000, Deduct	-74.36	
For >5,000, Deduct		

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0086 LF 16.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	402.00	
For Vinlyester Resin, Add	260.94	
For Epoxy Resin, Add	30.75	
For Up To >10, Add	274.08	
For >10 To 25, Add	166.27	
For >25 To 50, Add	118.40	
For >50 To 100, Add	59.20	
For >500 To 1,000, Deduct	-20.83	
For >1,000 To 2,000, Deduct	-31.61	
For >2,000 To 5,000, Deduct	-52.04	
For >5,000, Deduct	-86.25	
33 01 30 72-0087 LF 16.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	459.62	
For Vinlyester Resin, Add	299.40	
For Epoxy Resin, Add	35.29	
For Up To >10, Add	309.56	
For >10 To 25, Add	186.68	
For >25 To 50, Add	133.39	
For >50 To 100, Add	66.70	
For >500 To 1,000, Deduct	-23.78	
For >1,000 To 2,000, Deduct	-36.07	
For >2,000 To 5,000, Deduct	-59.30	
For >5,000, Deduct	-98.30	
33 01 30 72-0088 LF 16.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	517.82	
For Vinlyester Resin, Add	337.88	
For Epoxy Resin, Add	39.82	
For Up To >10, Add	346.76	
For >10 To 25, Add	208.52	
For >25 To 50, Add	149.25	
For >50 To 100, Add	74.62	
For >500 To 1,000, Deduct	-26.77	
For >1,000 To 2,000, Deduct	-40.59	
For >2,000 To 5,000, Deduct	-66.71	
For >5,000, Deduct	-110.59	
33 01 30 72-0089 LF 16.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	576.70	
For Vinlyester Resin, Add	376.34	
For Epoxy Resin, Add	44.35	
For Up To >10, Add	386.03	
For >10 To 25, Add	232.08	
For >25 To 50, Add	166.13	
For >50 To 100, Add	83.07	
For >500 To 1,000, Deduct	-29.81	
For >1,000 To 2,000, Deduct	-45.21	
For >2,000 To 5,000, Deduct	-74.28	
For >5,000, Deduct	-123.15	
33 01 30 72-0090 LF 16.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	691.53	
For Vinlyester Resin, Add	453.28	
For Epoxy Resin, Add	53.42	
For Up To >10, Add	455.74	
For >10 To 25, Add	271.86	
For >25 To 50, Add	195.49	
For >50 To 100, Add	97.75	
For >500 To 1,000, Deduct	-35.68	
For >1,000 To 2,000, Deduct	-54.06	
For >2,000 To 5,000, Deduct	-88.70	
For >5,000, Deduct	-147.10	
33 01 30 72-0091 LF 16.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	807.62	
For Vinlyester Resin, Add	530.21	
For Epoxy Resin, Add	62.49	
For Up To >10, Add	529.26	
For >10 To 25, Add	314.81	
For >25 To 50, Add	226.76	
For >50 To 100, Add	113.38	
For >500 To 1,000, Deduct	-41.64	
For >1,000 To 2,000, Deduct	-63.08	
For >2,000 To 5,000, Deduct	-103.44	
For >5,000, Deduct	-171.56	
33 01 30 72-0092 LF 16.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	925.95	
For Vinlyester Resin, Add	607.15	
For Epoxy Resin, Add	71.56	
For Up To >10, Add	609.48	
For >10 To 25, Add	363.34	
For >25 To 50, Add	261.37	
For >50 To 100, Add	130.69	
For >500 To 1,000, Deduct	-47.76	
For >1,000 To 2,000, Deduct	-72.38	
For >2,000 To 5,000, Deduct	-118.73	
For >5,000, Deduct	-196.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0093 LF 16.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,043.31	
For Vinlyester Resin, Add	684.08	
For Epoxy Resin, Add	80.62	
For Up To >10, Add	686.78	
For >10 To 25, Add	409.44	
For >25 To 50, Add	294.53	
For >50 To 100, Add	147.26	
For >500 To 1,000, Deduct	-53.82	
For >1,000 To 2,000, Deduct	-81.55	
For >2,000 To 5,000, Deduct	-133.78	
For >5,000, Deduct	-221.87	
<b>33 01 30 72-0094 18mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0095 LF 18mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	373.22	
For Vinlyester Resin, Add	241.87	
For Epoxy Resin, Add	28.51	
For Up To >10, Add	255.84	
For >10 To 25, Add	155.61	
For >25 To 50, Add	110.64	
For >50 To 100, Add	55.32	
For >500 To 1,000, Deduct	-19.35	
For >1,000 To 2,000, Deduct	-29.38	
For >2,000 To 5,000, Deduct	-48.39	
For >5,000, Deduct	-80.18	
33 01 30 72-0096 LF 18mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	435.56	
For Vinlyester Resin, Add	283.84	
For Epoxy Resin, Add	33.45	
For Up To >10, Add	292.98	
For >10 To 25, Add	176.57	
For >25 To 50, Add	126.22	
For >50 To 100, Add	63.11	
For >500 To 1,000, Deduct	-22.53	
For >1,000 To 2,000, Deduct	-34.17	
For >2,000 To 5,000, Deduct	-56.18	
For >5,000, Deduct	-93.13	
33 01 30 72-0097 LF 18mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	498.18	
For Vinlyester Resin, Add	325.80	
For Epoxy Resin, Add	38.40	
For Up To >10, Add	330.97	
For >10 To 25, Add	198.23	
For >25 To 50, Add	142.21	
For >50 To 100, Add	71.11	
For >500 To 1,000, Deduct	-25.73	
For >1,000 To 2,000, Deduct	-39.00	
For >2,000 To 5,000, Deduct	-64.04	
For >5,000, Deduct	-106.19	
33 01 30 72-0098 LF 18mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	561.50	
For Vinlyester Resin, Add	367.77	
For Epoxy Resin, Add	43.34	
For Up To >10, Add	371.05	
For >10 To 25, Add	221.65	
For >25 To 50, Add	159.26	
For >50 To 100, Add	79.63	
For >500 To 1,000, Deduct	-28.98	
For >1,000 To 2,000, Deduct	-43.92	
For >2,000 To 5,000, Deduct	-72.08	
For >5,000, Deduct	-119.52	
33 01 30 72-0099 LF 18mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	625.37	
For Vinlyester Resin, Add	409.72	
For Epoxy Resin, Add	48.29	
For Up To >10, Add	412.81	
For >10 To 25, Add	246.46	
For >25 To 50, Add	177.14	
For >50 To 100, Add	88.57	
For >500 To 1,000, Deduct	-32.27	
For >1,000 To 2,000, Deduct	-48.91	
For >2,000 To 5,000, Deduct	-80.25	
For >5,000, Deduct	-133.08	
33 01 30 72-0100 LF 18mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	751.32	
For Vinlyester Resin, Add	493.65	
For Epoxy Resin, Add	58.18	
For Up To >10, Add	490.91	
For >10 To 25, Add	291.56	
For >25 To 50, Add	210.19	
For >50 To 100, Add	105.10	
For >500 To 1,000, Deduct	-38.72	
For >1,000 To 2,000, Deduct	-58.65	
For >2,000 To 5,000, Deduct	-96.15	
For >5,000, Deduct	-159.48	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0101 LF 18mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	877.83	
For Vinlyester Resin, Add	577.59	
For Epoxy Resin, Add	68.07	
For Up To >10, Add	570.67	
For >10 To 25, Add	338.03	
For >25 To 50, Add	244.08	
For >50 To 100, Add	122.04	
For >500 To 1,000, Deduct	-45.21	
For >1,000 To 2,000, Deduct	-68.47	
For >2,000 To 5,000, Deduct	-112.19	
For >5,000, Deduct	-186.11	
33 01 30 72-0102 LF 18mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,006.58	
For Vinlyester Resin, Add	661.51	
For Epoxy Resin, Add	77.96	
For Up To >10, Add	657.19	
For >10 To 25, Add	390.16	
For >25 To 50, Add	281.34	
For >50 To 100, Add	140.67	
For >500 To 1,000, Deduct	-51.87	
For >1,000 To 2,000, Deduct	-78.57	
For >2,000 To 5,000, Deduct	-128.79	
For >5,000, Deduct	-213.63	
33 01 30 72-0103 LF 18mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,134.35	
For Vinlyester Resin, Add	745.44	
For Epoxy Resin, Add	87.86	
For Up To >10, Add	740.75	
For >10 To 25, Add	439.81	
For >25 To 50, Add	317.13	
For >50 To 100, Add	158.56	
For >500 To 1,000, Deduct	-58.45	
For >1,000 To 2,000, Deduct	-88.55	
For >2,000 To 5,000, Deduct	-145.15	
For >5,000, Deduct	-240.76	
33 01 30 72-0104 LF 18mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,261.97	
For Vinlyester Resin, Add	829.37	
For Epoxy Resin, Add	97.75	
For Up To >10, Add	823.89	
For >10 To 25, Add	489.10	
For >25 To 50, Add	352.70	
For >50 To 100, Add	176.35	
For >500 To 1,000, Deduct	-65.03	
For >1,000 To 2,000, Deduct	-98.51	
For >2,000 To 5,000, Deduct	-161.47	
For >5,000, Deduct	-267.83	
33 01 30 72-0105 LF 18mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,390.16	
For Vinlyester Resin, Add	913.30	
For Epoxy Resin, Add	107.64	
For Up To >10, Add	908.71	
For >10 To 25, Add	539.80	
For >25 To 50, Add	389.12	
For >50 To 100, Add	194.56	
For >500 To 1,000, Deduct	-71.64	
For >1,000 To 2,000, Deduct	-108.53	
For >2,000 To 5,000, Deduct	-177.93	
For >5,000, Deduct	-295.12	
33 01 30 72-0106 LF 18mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,517.93	
For Vinlyester Resin, Add	997.23	
For Epoxy Resin, Add	117.53	
For Up To >10, Add	992.27	
For >10 To 25, Add	589.45	
For >25 To 50, Add	424.90	
For >50 To 100, Add	212.45	
For >500 To 1,000, Deduct	-78.23	
For >1,000 To 2,000, Deduct	-118.51	
For >2,000 To 5,000, Deduct	-194.28	
For >5,000, Deduct	-322.25	
33 01 30 72-0107 19.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015).....	401.86	
33 01 30 72-0108 LF 19.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	401.86	
For Vinlyester Resin, Add	261.14	
For Epoxy Resin, Add	30.78	
For Up To >10, Add	272.96	
For >10 To 25, Add	165.29	
For >25 To 50, Add	117.83	
For >50 To 100, Add	58.91	
For >500 To 1,000, Deduct	-20.81	
For >1,000 To 2,000, Deduct	-31.58	
For >2,000 To 5,000, Deduct	-51.97	
For >5,000, Deduct	-86.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0109 LF 19.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	469.19	
For Vinyl Ester Resin, Add	306.59	
For Epoxy Resin, Add	36.13	
For Up To >10, Add	312.60	
For >10 To 25, Add	187.50	
For >25 To 50, Add	134.40	
For >50 To 100, Add	67.20	
For >500 To 1,000, Deduct	-24.24	
For >1,000 To 2,000, Deduct	-36.75	
For >2,000 To 5,000, Deduct	-60.36	
For >5,000, Deduct	-100.08	
33 01 30 72-0110 LF 19.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	536.94	
For Vinyl Ester Resin, Add	352.05	
For Epoxy Resin, Add	41.49	
For Up To >10, Add	353.50	
For >10 To 25, Add	210.76	
For >25 To 50, Add	151.60	
For >50 To 100, Add	75.80	
For >500 To 1,000, Deduct	-27.70	
For >1,000 To 2,000, Deduct	-41.97	
For >2,000 To 5,000, Deduct	-68.85	
For >5,000, Deduct	-114.19	
33 01 30 72-0111 LF 19.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	604.98	
For Vinyl Ester Resin, Add	397.52	
For Epoxy Resin, Add	46.85	
For Up To >10, Add	395.24	
For >10 To 25, Add	234.72	
For >25 To 50, Add	169.23	
For >50 To 100, Add	84.61	
For >500 To 1,000, Deduct	-31.18	
For >1,000 To 2,000, Deduct	-47.23	
For >2,000 To 5,000, Deduct	-77.42	
For >5,000, Deduct	-128.42	
33 01 30 72-0112 LF 19.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	674.15	
For Vinyl Ester Resin, Add	442.98	
For Epoxy Resin, Add	52.21	
For Up To >10, Add	440.38	
For >10 To 25, Add	261.51	
For >25 To 50, Add	188.55	
For >50 To 100, Add	94.27	
For >500 To 1,000, Deduct	-34.74	
For >1,000 To 2,000, Deduct	-52.63	
For >2,000 To 5,000, Deduct	-86.27	
For >5,000, Deduct	-143.09	
33 01 30 72-0113 LF 19.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	811.34	
For Vinyl Ester Resin, Add	533.90	
For Epoxy Resin, Add	62.92	
For Up To >10, Add	527.25	
For >10 To 25, Add	312.25	
For >25 To 50, Add	225.49	
For >50 To 100, Add	112.74	
For >500 To 1,000, Deduct	-41.78	
For >1,000 To 2,000, Deduct	-63.28	
For >2,000 To 5,000, Deduct	-103.68	
For >5,000, Deduct	-171.99	
33 01 30 72-0114 LF 19.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	948.96	
For Vinyl Ester Resin, Add	624.82	
For Epoxy Resin, Add	73.64	
For Up To >10, Add	615.38	
For >10 To 25, Add	364.05	
For >25 To 50, Add	263.06	
For >50 To 100, Add	131.53	
For >500 To 1,000, Deduct	-48.86	
For >1,000 To 2,000, Deduct	-73.99	
For >2,000 To 5,000, Deduct	-121.20	
For >5,000, Deduct	-201.06	
33 01 30 72-0115 LF 19.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,087.56	
For Vinyl Ester Resin, Add	715.74	
For Epoxy Resin, Add	84.36	
For Up To >10, Add	706.46	
For >10 To 25, Add	418.30	
For >25 To 50, Add	302.10	
For >50 To 100, Add	151.05	
For >500 To 1,000, Deduct	-56.00	
For >1,000 To 2,000, Deduct	-84.82	
For >2,000 To 5,000, Deduct	-138.97	
For >5,000, Deduct	-230.53	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

33 01 30 72-0116	LF	19.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,225.74	
		For Vinlyester Resin, Add	806.67	
		For Epoxy Resin, Add	95.07	
		For Up To >10, Add	796.27	
		For >10 To 25, Add	471.50	
		For >25 To 50, Add	340.52	
		For >50 To 100, Add	170.26	
		For >500 To 1,000, Deduct	-63.12	
		For >1,000 To 2,000, Deduct	-95.60	
		For >2,000 To 5,000, Deduct	-156.63	
		For >5,000, Deduct	-259.82	
33 01 30 72-0117	LF	19.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,363.93	
		For Vinlyester Resin, Add	897.59	
		For Epoxy Resin, Add	105.79	
		For Up To >10, Add	886.12	
		For >10 To 25, Add	524.72	
		For >25 To 50, Add	378.94	
		For >50 To 100, Add	189.47	
		For >500 To 1,000, Deduct	-70.24	
		For >1,000 To 2,000, Deduct	-106.38	
		For >2,000 To 5,000, Deduct	-174.29	
		For >5,000, Deduct	-289.12	
33 01 30 72-0118	LF	19.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,503.79	
		For Vinlyester Resin, Add	988.51	
		For Epoxy Resin, Add	116.50	
		For Up To >10, Add	980.97	
		For >10 To 25, Add	582.12	
		For >25 To 50, Add	419.88	
		For >50 To 100, Add	209.94	
		For >500 To 1,000, Deduct	-77.48	
		For >1,000 To 2,000, Deduct	-117.37	
		For >2,000 To 5,000, Deduct	-192.37	
		For >5,000, Deduct	-319.08	
33 01 30 72-0119	LF	19.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,642.11	
		For Vinlyester Resin, Add	1,079.43	
		For Epoxy Resin, Add	127.22	
		For Up To >10, Add	1,071.23	
		For >10 To 25, Add	635.69	
		For >25 To 50, Add	458.51	
		For >50 To 100, Add	229.26	
		For >500 To 1,000, Deduct	-84.61	
		For >1,000 To 2,000, Deduct	-128.16	
		For >2,000 To 5,000, Deduct	-210.06	
		For >5,000, Deduct	-348.44	

**33 01 30 72-0120 21mm Thick Lining Cured In-Place Pipe** (33 01 30 72-0015)

33 01 30 72-0121	LF	21mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	430.15	
		For Vinlyester Resin, Add	280.25	
		For Epoxy Resin, Add	33.03	
		For Up To >10, Add	289.55	
		For >10 To 25, Add	174.57	
		For >25 To 50, Add	124.76	
		For >50 To 100, Add	62.38	
		For >500 To 1,000, Deduct	-22.25	
		For >1,000 To 2,000, Deduct	-33.75	
		For >2,000 To 5,000, Deduct	-55.49	
		For >5,000, Deduct	-91.99	
33 01 30 72-0122	LF	21mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	502.63	
		For Vinlyester Resin, Add	329.22	
		For Epoxy Resin, Add	38.80	
		For Up To >10, Add	332.12	
		For >10 To 25, Add	198.38	
		For >25 To 50, Add	142.54	
		For >50 To 100, Add	71.27	
		For >500 To 1,000, Deduct	-25.94	
		For >1,000 To 2,000, Deduct	-39.31	
		For >2,000 To 5,000, Deduct	-64.52	
		For >5,000, Deduct	-106.99	
33 01 30 72-0123	LF	21mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	575.52	
		For Vinlyester Resin, Add	378.18	
		For Epoxy Resin, Add	44.57	
		For Up To >10, Add	375.94	
		For >10 To 25, Add	223.24	
		For >25 To 50, Add	160.96	
		For >50 To 100, Add	80.48	
		For >500 To 1,000, Deduct	-29.66	
		For >1,000 To 2,000, Deduct	-44.93	
		For >2,000 To 5,000, Deduct	-73.65	
		For >5,000, Deduct	-122.16	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0124 LF 21mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	648.27	
For Vinlyester Resin, Add	427.13	
For Epoxy Resin, Add	50.34	
For Up To >10, Add	419.34	
For >10 To 25, Add	247.75	
For >25 To 50, Add	179.16	
For >50 To 100, Add	89.58	
For >500 To 1,000, Deduct	-33.37	
For >1,000 To 2,000, Deduct	-50.52	
For >2,000 To 5,000, Deduct	-82.74	
For >5,000, Deduct	-137.27	
33 01 30 72-0125 LF 21mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	722.57	
For Vinlyester Resin, Add	476.09	
For Epoxy Resin, Add	56.11	
For Up To >10, Add	467.39	
For >10 To 25, Add	276.13	
For >25 To 50, Add	199.69	
For >50 To 100, Add	99.84	
For >500 To 1,000, Deduct	-37.19	
For >1,000 To 2,000, Deduct	-56.31	
For >2,000 To 5,000, Deduct	-92.23	
For >5,000, Deduct	-153.00	
33 01 30 72-0126 LF 21mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	871.17	
For Vinlyester Resin, Add	574.01	
For Epoxy Resin, Add	67.65	
For Up To >10, Add	563.49	
For >10 To 25, Add	332.90	
For >25 To 50, Add	240.74	
For >50 To 100, Add	120.37	
For >500 To 1,000, Deduct	-44.84	
For >1,000 To 2,000, Deduct	-67.90	
For >2,000 To 5,000, Deduct	-111.19	
For >5,000, Deduct	-184.47	
33 01 30 72-0127 LF 21mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,019.76	
For Vinlyester Resin, Add	671.92	
For Epoxy Resin, Add	79.19	
For Up To >10, Add	659.56	
For >10 To 25, Add	389.65	
For >25 To 50, Add	281.78	
For >50 To 100, Add	140.89	
For >500 To 1,000, Deduct	-52.48	
For >1,000 To 2,000, Deduct	-79.48	
For >2,000 To 5,000, Deduct	-130.15	
For >5,000, Deduct	-215.93	
33 01 30 72-0128 LF 21mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,168.36	
For Vinlyester Resin, Add	769.84	
For Epoxy Resin, Add	90.73	
For Up To >10, Add	755.66	
For >10 To 25, Add	446.42	
For >25 To 50, Add	322.84	
For >50 To 100, Add	161.42	
For >500 To 1,000, Deduct	-60.13	
For >1,000 To 2,000, Deduct	-91.06	
For >2,000 To 5,000, Deduct	-149.12	
For >5,000, Deduct	-247.39	
33 01 30 72-0129 LF 21mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,316.95	
For Vinlyester Resin, Add	867.76	
For Epoxy Resin, Add	102.27	
For Up To >10, Add	851.73	
For >10 To 25, Add	503.16	
For >25 To 50, Add	363.88	
For >50 To 100, Add	181.94	
For >500 To 1,000, Deduct	-67.78	
For >1,000 To 2,000, Deduct	-102.64	
For >2,000 To 5,000, Deduct	-168.08	
For >5,000, Deduct	-278.85	
33 01 30 72-0130 LF 21mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,465.54	
For Vinlyester Resin, Add	965.67	
For Epoxy Resin, Add	113.81	
For Up To >10, Add	947.80	
For >10 To 25, Add	559.91	
For >25 To 50, Add	404.92	
For >50 To 100, Add	202.46	
For >500 To 1,000, Deduct	-75.43	
For >1,000 To 2,000, Deduct	-114.22	
For >2,000 To 5,000, Deduct	-187.05	
For >5,000, Deduct	-310.31	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 01 30 72-0131	LF	21mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,617.23	
		<i>For Vinylster Resin, Add</i>	1,063.59	
		<i>For Epoxy Resin, Add</i>	125.35	
		<i>For Up To &gt;10, Add</i>	1,053.17	
		<i>For &gt;10 To 25, Add</i>	624.40	
		<i>For &gt;25 To 50, Add</i>	450.61	
		<i>For &gt;50 To 100, Add</i>	225.31	
		<i>For &gt;500 To 1,000, Deduct</i>	-83.31	
		<i>For &gt;1,000 To 2,000, Deduct</i>	-126.18	
		<i>For &gt;2,000 To 5,000, Deduct</i>	-206.78	
		<i>For &gt;5,000, Deduct</i>	-343.01	
33 01 30 72-0132	LF	21mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	1,766.10	
		<i>For Vinylster Resin, Add</i>	1,161.50	
		<i>For Epoxy Resin, Add</i>	136.89	
		<i>For Up To &gt;10, Add</i>	1,150.08	
		<i>For &gt;10 To 25, Add</i>	681.85	
		<i>For &gt;25 To 50, Add</i>	492.07	
		<i>For &gt;50 To 100, Add</i>	246.04	
		<i>For &gt;500 To 1,000, Deduct</i>	-90.98	
		<i>For &gt;1,000 To 2,000, Deduct</i>	-137.80	
		<i>For &gt;2,000 To 5,000, Deduct</i>	-225.82	
		<i>For &gt;5,000, Deduct</i>	-374.58	
<b>33 01 30 72-0133</b>		<b>22.5mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0134	LF	22.5mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	458.13	
		<i>For Vinylster Resin, Add</i>	299.24	
		<i>For Epoxy Resin, Add</i>	35.27	
		<i>For Up To &gt;10, Add</i>	305.67	
		<i>For &gt;10 To 25, Add</i>	183.47	
		<i>For &gt;25 To 50, Add</i>	131.46	
		<i>For &gt;50 To 100, Add</i>	65.73	
		<i>For &gt;500 To 1,000, Deduct</i>	-23.67	
		<i>For &gt;1,000 To 2,000, Deduct</i>	-35.89	
		<i>For &gt;2,000 To 5,000, Deduct</i>	-58.96	
		<i>For &gt;5,000, Deduct</i>	-97.75	
33 01 30 72-0135	LF	22.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	535.59	
		<i>For Vinylster Resin, Add</i>	351.69	
		<i>For Epoxy Resin, Add</i>	41.45	
		<i>For Up To &gt;10, Add</i>	350.72	
		<i>For &gt;10 To 25, Add</i>	208.53	
		<i>For &gt;25 To 50, Add</i>	150.24	
		<i>For &gt;50 To 100, Add</i>	75.12	
		<i>For &gt;500 To 1,000, Deduct</i>	-27.61	
		<i>For &gt;1,000 To 2,000, Deduct</i>	-41.83	
		<i>For &gt;2,000 To 5,000, Deduct</i>	-68.58	
		<i>For &gt;5,000, Deduct</i>	-113.75	
33 01 30 72-0136	LF	22.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	613.90	
		<i>For Vinylster Resin, Add</i>	404.15	
		<i>For Epoxy Resin, Add</i>	47.63	
		<i>For Up To &gt;10, Add</i>	398.30	
		<i>For &gt;10 To 25, Add</i>	235.69	
		<i>For &gt;25 To 50, Add</i>	170.28	
		<i>For &gt;50 To 100, Add</i>	85.14	
		<i>For &gt;500 To 1,000, Deduct</i>	-31.61	
		<i>For &gt;1,000 To 2,000, Deduct</i>	-47.87	
		<i>For &gt;2,000 To 5,000, Deduct</i>	-78.42	
		<i>For &gt;5,000, Deduct</i>	-130.09	
33 01 30 72-0137	LF	22.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	692.64	
		<i>For Vinylster Resin, Add</i>	456.61	
		<i>For Epoxy Resin, Add</i>	53.81	
		<i>For Up To &gt;10, Add</i>	447.17	
		<i>For &gt;10 To 25, Add</i>	263.93	
		<i>For &gt;25 To 50, Add</i>	190.97	
		<i>For &gt;50 To 100, Add</i>	95.49	
		<i>For &gt;500 To 1,000, Deduct</i>	-35.64	
		<i>For &gt;1,000 To 2,000, Deduct</i>	-53.97	
		<i>For &gt;2,000 To 5,000, Deduct</i>	-88.36	
		<i>For &gt;5,000, Deduct</i>	-146.60	
33 01 30 72-0138	LF	22.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP)	772.20	
		<i>For Vinylster Resin, Add</i>	509.06	
		<i>For Epoxy Resin, Add</i>	60.00	
		<i>For Up To &gt;10, Add</i>	498.53	
		<i>For &gt;10 To 25, Add</i>	294.23	
		<i>For &gt;25 To 50, Add</i>	212.90	
		<i>For &gt;50 To 100, Add</i>	106.45	
		<i>For &gt;500 To 1,000, Deduct</i>	-39.73	
		<i>For &gt;1,000 To 2,000, Deduct</i>	-60.16	
		<i>For &gt;2,000 To 5,000, Deduct</i>	-98.51	
		<i>For &gt;5,000, Deduct</i>	-163.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0139 LF 22.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	931.35	
For Vinlyester Resin, Add	613.97	
For Epoxy Resin, Add	72.36	
For Up To >10, Add	601.30	
For >10 To 25, Add	354.90	
For >25 To 50, Add	256.80	
For >50 To 100, Add	128.40	
For >500 To 1,000, Deduct	-47.92	
For >1,000 To 2,000, Deduct	-72.56	
For >2,000 To 5,000, Deduct	-118.81	
For >5,000, Deduct	-197.12	
33 01 30 72-0140 LF 22.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,090.50	
For Vinlyester Resin, Add	718.88	
For Epoxy Resin, Add	84.73	
For Up To >10, Add	704.08	
For >10 To 25, Add	415.57	
For >25 To 50, Add	300.69	
For >50 To 100, Add	150.34	
For >500 To 1,000, Deduct	-56.11	
For >1,000 To 2,000, Deduct	-84.96	
For >2,000 To 5,000, Deduct	-139.12	
For >5,000, Deduct	-230.81	
33 01 30 72-0141 LF 22.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,249.65	
For Vinlyester Resin, Add	823.80	
For Epoxy Resin, Add	97.09	
For Up To >10, Add	806.83	
For >10 To 25, Add	476.21	
For >25 To 50, Add	344.57	
For >50 To 100, Add	172.29	
For >500 To 1,000, Deduct	-64.30	
For >1,000 To 2,000, Deduct	-97.36	
For >2,000 To 5,000, Deduct	-159.42	
For >5,000, Deduct	-264.49	
33 01 30 72-0142 LF 22.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,408.80	
For Vinlyester Resin, Add	928.70	
For Epoxy Resin, Add	109.45	
For Up To >10, Add	909.60	
For >10 To 25, Add	536.88	
For >25 To 50, Add	388.46	
For >50 To 100, Add	194.23	
For >500 To 1,000, Deduct	-72.49	
For >1,000 To 2,000, Deduct	-109.76	
For >2,000 To 5,000, Deduct	-179.73	
For >5,000, Deduct	-298.18	
33 01 30 72-0143 LF 22.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,567.94	
For Vinlyester Resin, Add	1,033.61	
For Epoxy Resin, Add	121.62	
For Up To >10, Add	1,012.35	
For >10 To 25, Add	597.52	
For >25 To 50, Add	432.34	
For >50 To 100, Add	216.17	
For >500 To 1,000, Deduct	-80.68	
For >1,000 To 2,000, Deduct	-122.16	
For >2,000 To 5,000, Deduct	-200.03	
For >5,000, Deduct	-331.86	
33 01 30 72-0144 LF 22.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,730.32	
For Vinlyester Resin, Add	1,138.52	
For Epoxy Resin, Add	134.18	
For Up To >10, Add	1,124.81	
For >10 To 25, Add	666.27	
For >25 To 50, Add	481.08	
For >50 To 100, Add	240.54	
For >500 To 1,000, Deduct	-89.11	
For >1,000 To 2,000, Deduct	-134.97	
For >2,000 To 5,000, Deduct	-221.14	
For >5,000, Deduct	-366.84	
33 01 30 72-0145 LF 22.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,889.76	
For Vinlyester Resin, Add	1,243.44	
For Epoxy Resin, Add	146.55	
For Up To >10, Add	1,228.43	
For >10 To 25, Add	727.64	
For >25 To 50, Add	525.40	
For >50 To 100, Add	262.70	
For >500 To 1,000, Deduct	-97.32	
For >1,000 To 2,000, Deduct	-147.40	
For >2,000 To 5,000, Deduct	-241.52	
For >5,000, Deduct	-400.64	

33 01 30 72-0146 24mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

**33 Utilities**  
**33 01 Operation and Maintenance of Utilities**  
**33 01 30 Operation and Maintenance of Sewer Utilities**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0147 LF 24mm Lining 18" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	485.75	
For Vinlyester Resin, Add	318.09	
For Epoxy Resin, Add	37.49	
For Up To >10, Add	321.23	
For >10 To 25, Add	191.95	
For >25 To 50, Add	137.89	
For >50 To 100, Add	68.95	
For >500 To 1,000, Deduct	-25.07	
For >1,000 To 2,000, Deduct	-38.00	
For >2,000 To 5,000, Deduct	-62.36	
For >5,000, Deduct	-103.42	
33 01 30 72-0148 LF 24mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	688.22	
For Vinlyester Resin, Add	374.05	
For Epoxy Resin, Add	44.08	
For Up To >10, Add	368.79	
For >10 To 25, Add	218.26	
For >25 To 50, Add	157.68	
For >50 To 100, Add	78.84	
For >500 To 1,000, Deduct	-29.26	
For >1,000 To 2,000, Deduct	-44.31	
For >2,000 To 5,000, Deduct	-72.59	
For >5,000, Deduct	-120.42	
33 01 30 72-0149 LF 24mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	651.94	
For Vinlyester Resin, Add	430.00	
For Epoxy Resin, Add	50.68	
For Up To >10, Add	420.12	
For >10 To 25, Add	247.72	
For >25 To 50, Add	179.35	
For >50 To 100, Add	89.67	
For >500 To 1,000, Deduct	-33.54	
For >1,000 To 2,000, Deduct	-50.78	
For >2,000 To 5,000, Deduct	-83.13	
For >5,000, Deduct	-137.92	
33 01 30 72-0150 LF 24mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	736.80	
For Vinlyester Resin, Add	485.95	
For Epoxy Resin, Add	57.27	
For Up To >10, Add	474.88	
For >10 To 25, Add	280.03	
For >25 To 50, Add	202.73	
For >50 To 100, Add	101.36	
For >500 To 1,000, Deduct	-37.90	
For >1,000 To 2,000, Deduct	-57.39	
For >2,000 To 5,000, Deduct	-93.95	
For >5,000, Deduct	-155.88	
33 01 30 72-0151 LF 24mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	821.64	
For Vinlyester Resin, Add	541.90	
For Epoxy Resin, Add	63.87	
For Up To >10, Add	529.57	
For >10 To 25, Add	312.29	
For >25 To 50, Add	226.08	
For >50 To 100, Add	113.04	
For >500 To 1,000, Deduct	-42.27	
For >1,000 To 2,000, Deduct	-64.00	
For >2,000 To 5,000, Deduct	-104.77	
For >5,000, Deduct	-173.83	
33 01 30 72-0152 LF 24mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	991.36	
For Vinlyester Resin, Add	653.81	
For Epoxy Resin, Add	77.06	
For Up To >10, Add	639.06	
For >10 To 25, Add	376.88	
For >25 To 50, Add	272.83	
For >50 To 100, Add	136.41	
For >500 To 1,000, Deduct	-51.00	
For >1,000 To 2,000, Deduct	-77.22	
For >2,000 To 5,000, Deduct	-126.42	
For >5,000, Deduct	-209.74	
33 01 30 72-0153 LF 24mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,205.96	
For Vinlyester Resin, Add	797.24	
For Epoxy Resin, Add	93.96	
For Up To >10, Add	770.58	
For >10 To 25, Add	452.33	
For >25 To 50, Add	328.34	
For >50 To 100, Add	164.17	
For >500 To 1,000, Deduct	-61.97	
For >1,000 To 2,000, Deduct	-93.80	
For >2,000 To 5,000, Deduct	-153.43	
For >5,000, Deduct	-254.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0154 LF 24mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,330.61	
For Vinlyester Resin, Add	877.61	
For Epoxy Resin, Add	103.43	
For Up To >10, Add	857.51	
For >10 To 25, Add	505.63	
For >25 To 50, Add	366.07	
For >50 To 100, Add	183.03	
For >500 To 1,000, Deduct	-68.45	
For >1,000 To 2,000, Deduct	-103.64	
For >2,000 To 5,000, Deduct	-169.67	
For >5,000, Deduct	-281.50	
33 01 30 72-0155 LF 24mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,500.32	
For Vinlyester Resin, Add	989.52	
For Epoxy Resin, Add	116.62	
For Up To >10, Add	966.96	
For >10 To 25, Add	570.20	
For >25 To 50, Add	412.80	
For >50 To 100, Add	206.40	
For >500 To 1,000, Deduct	-77.18	
For >1,000 To 2,000, Deduct	-116.86	
For >2,000 To 5,000, Deduct	-191.31	
For >5,000, Deduct	-317.41	
33 01 30 72-0156 LF 24mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,670.01	
For Vinlyester Resin, Add	1,101.42	
For Epoxy Resin, Add	129.81	
For Up To >10, Add	1,076.38	
For >10 To 25, Add	634.74	
For >25 To 50, Add	459.52	
For >50 To 100, Add	229.76	
For >500 To 1,000, Deduct	-85.91	
For >1,000 To 2,000, Deduct	-130.08	
For >2,000 To 5,000, Deduct	-212.95	
For >5,000, Deduct	-353.31	
33 01 30 72-0157 LF 24mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,843.08	
For Vinlyester Resin, Add	1,213.32	
For Epoxy Resin, Add	143.00	
For Up To >10, Add	1,195.94	
For >10 To 25, Add	707.73	
For >25 To 50, Add	511.30	
For >50 To 100, Add	255.65	
For >500 To 1,000, Deduct	-94.90	
For >1,000 To 2,000, Deduct	-143.72	
For >2,000 To 5,000, Deduct	-235.44	
For >5,000, Deduct	-390.57	
33 01 30 72-0158 LF 24mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,013.07	
For Vinlyester Resin, Add	1,325.23	
For Epoxy Resin, Add	156.19	
For Up To >10, Add	1,306.24	
For >10 To 25, Add	773.00	
For >25 To 50, Add	558.46	
For >50 To 100, Add	279.23	
For >500 To 1,000, Deduct	-103.65	
For >1,000 To 2,000, Deduct	-156.97	
For >2,000 To 5,000, Deduct	-257.15	
For >5,000, Deduct	-426.59	
33 01 30 72-0159 LF 24mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,183.05	
For Vinlyester Resin, Add	1,437.14	
For Epoxy Resin, Add	169.38	
For Up To >10, Add	1,416.53	
For >10 To 25, Add	838.26	
For >25 To 50, Add	605.61	
For >50 To 100, Add	302.81	
For >500 To 1,000, Deduct	-112.40	
For >1,000 To 2,000, Deduct	-170.23	
For >2,000 To 5,000, Deduct	-278.87	
For >5,000, Deduct	-462.61	
33 01 30 72-0160 LF 24mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,353.03	
For Vinlyester Resin, Add	1,549.04	
For Epoxy Resin, Add	182.57	
For Up To >10, Add	1,526.82	
For >10 To 25, Add	903.53	
For >25 To 50, Add	652.76	
For >50 To 100, Add	326.38	
For >500 To 1,000, Deduct	-121.15	
For >1,000 To 2,000, Deduct	-183.48	
For >2,000 To 5,000, Deduct	-300.58	
For >5,000, Deduct	-498.63	

33 01 30 72-0161 25.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0162 LF 25.5mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	601.06	
For Vinlyester Resin, Add	396.25	
For Epoxy Resin, Add	46.70	
For Up To >10, Add	388.01	
For >10 To 25, Add	228.99	
For >25 To 50, Add	165.70	
For >50 To 100, Add	82.85	
For >500 To 1,000, Deduct	-30.93	
For >1,000 To 2,000, Deduct	-46.83	
For >2,000 To 5,000, Deduct	-76.68	
For >5,000, Deduct	-127.21	
33 01 30 72-0163 LF 25.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	690.63	
For Vinlyester Resin, Add	455.70	
For Epoxy Resin, Add	53.71	
For Up To >10, Add	444.39	
For >10 To 25, Add	261.83	
For >25 To 50, Add	189.65	
For >50 To 100, Add	94.82	
For >500 To 1,000, Deduct	-35.52	
For >1,000 To 2,000, Deduct	-53.78	
For >2,000 To 5,000, Deduct	-88.03	
For >5,000, Deduct	-146.05	
33 01 30 72-0164 LF 25.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	780.76	
For Vinlyester Resin, Add	515.15	
For Epoxy Resin, Add	60.71	
For Up To >10, Add	502.46	
For >10 To 25, Add	296.06	
For >25 To 50, Add	214.43	
For >50 To 100, Add	107.22	
For >500 To 1,000, Deduct	-40.16	
For >1,000 To 2,000, Deduct	-60.80	
For >2,000 To 5,000, Deduct	-99.52	
For >5,000, Deduct	-165.12	
33 01 30 72-0165 LF 25.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	870.74	
For Vinlyester Resin, Add	574.60	
For Epoxy Resin, Add	67.72	
For Up To >10, Add	560.10	
For >10 To 25, Add	329.94	
For >25 To 50, Add	239.01	
For >50 To 100, Add	119.50	
For >500 To 1,000, Deduct	-44.78	
For >1,000 To 2,000, Deduct	-67.80	
For >2,000 To 5,000, Deduct	-110.97	
For >5,000, Deduct	-184.13	
33 01 30 72-0166 LF 25.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,051.00	
For Vinlyester Resin, Add	693.50	
For Epoxy Resin, Add	81.73	
For Up To >10, Add	676.23	
For >10 To 25, Add	398.40	
For >25 To 50, Add	288.58	
For >50 To 100, Add	144.29	
For >500 To 1,000, Deduct	-54.06	
For >1,000 To 2,000, Deduct	-81.84	
For >2,000 To 5,000, Deduct	-133.96	
For >5,000, Deduct	-222.26	
33 01 30 72-0167 LF 25.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,231.11	
For Vinlyester Resin, Add	812.39	
For Epoxy Resin, Add	95.75	
For Up To >10, Add	791.93	
For >10 To 25, Add	466.52	
For >25 To 50, Add	337.94	
For >50 To 100, Add	168.97	
For >500 To 1,000, Deduct	-63.32	
For >1,000 To 2,000, Deduct	-95.86	
For >2,000 To 5,000, Deduct	-156.90	
For >5,000, Deduct	-260.33	
33 01 30 72-0168 LF 25.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,411.38	
For Vinlyester Resin, Add	931.29	
For Epoxy Resin, Add	109.76	
For Up To >10, Add	908.09	
For >10 To 25, Add	535.01	
For >25 To 50, Add	387.52	
For >50 To 100, Add	193.76	
For >500 To 1,000, Deduct	-72.59	
For >1,000 To 2,000, Deduct	-109.90	
For >2,000 To 5,000, Deduct	-179.89	
For >5,000, Deduct	-298.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0169 LF 25.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,591.49	
For Vinlyester Resin, Add	1,050.19	
For Epoxy Resin, Add	123.77	
For Up To >10, Add	1,023.80	
For >10 To 25, Add	603.12	
For >25 To 50, Add	436.88	
For >50 To 100, Add	218.44	
For >500 To 1,000, Deduct	-81.86	
For >1,000 To 2,000, Deduct	-123.92	
For >2,000 To 5,000, Deduct	-202.84	
For >5,000, Deduct	-336.54	
33 01 30 72-0170 LF 25.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,771.74	
For Vinlyester Resin, Add	1,169.09	
For Epoxy Resin, Add	137.79	
For Up To >10, Add	1,139.90	
For >10 To 25, Add	671.56	
For >25 To 50, Add	486.44	
For >50 To 100, Add	243.22	
For >500 To 1,000, Deduct	-91.13	
For >1,000 To 2,000, Deduct	-137.96	
For >2,000 To 5,000, Deduct	-225.82	
For >5,000, Deduct	-374.67	
33 01 30 72-0171 LF 25.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,956.49	
For Vinlyester Resin, Add	1,287.99	
For Epoxy Resin, Add	151.80	
For Up To >10, Add	1,269.52	
For >10 To 25, Add	751.27	
For >25 To 50, Add	542.76	
For >50 To 100, Add	271.38	
For >500 To 1,000, Deduct	-100.74	
For >1,000 To 2,000, Deduct	-152.56	
For >2,000 To 5,000, Deduct	-249.93	
For >5,000, Deduct	-414.60	
33 01 30 72-0172 LF 25.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,137.17	
For Vinlyester Resin, Add	1,406.89	
For Epoxy Resin, Add	165.81	
For Up To >10, Add	1,386.91	
For >10 To 25, Add	820.79	
For >25 To 50, Add	592.96	
For >50 To 100, Add	296.48	
For >500 To 1,000, Deduct	-110.04	
For >1,000 To 2,000, Deduct	-166.65	
For >2,000 To 5,000, Deduct	-273.01	
For >5,000, Deduct	-452.90	
33 01 30 72-0173 LF 25.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,317.70	
For Vinlyester Resin, Add	1,525.78	
For Epoxy Resin, Add	179.82	
For Up To >10, Add	1,503.88	
For >10 To 25, Add	889.95	
For >25 To 50, Add	642.95	
For >50 To 100, Add	321.48	
For >500 To 1,000, Deduct	-119.34	
For >1,000 To 2,000, Deduct	-180.73	
For >2,000 To 5,000, Deduct	-296.07	
For >5,000, Deduct	-491.14	
33 01 30 72-0174 LF 25.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,498.38	
For Vinlyester Resin, Add	1,644.69	
For Epoxy Resin, Add	193.84	
For Up To >10, Add	1,621.27	
For >10 To 25, Add	959.46	
For >25 To 50, Add	693.16	
For >50 To 100, Add	346.58	
For >500 To 1,000, Deduct	-128.64	
For >1,000 To 2,000, Deduct	-194.82	
For >2,000 To 5,000, Deduct	-319.15	
For >5,000, Deduct	-529.44	
<b>33 01 30 72-0175 27mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small>.....</b>	<b>633.58</b>	
33 01 30 72-0176 LF 27mm Lining 21" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	633.58	
For Vinlyester Resin, Add	418.32	
For Epoxy Resin, Add	49.30	
For Up To >10, Add	406.74	
For >10 To 25, Add	239.35	
For >25 To 50, Add	173.49	
For >50 To 100, Add	86.75	
For >500 To 1,000, Deduct	-32.58	
For >1,000 To 2,000, Deduct	-49.32	
For >2,000 To 5,000, Deduct	-80.71	
For >5,000, Deduct	-133.91	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0177 LF 27mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	728.98	
For Vinlyester Resin, Add	481.26	
For Epoxy Resin, Add	56.72	
For Up To >10, Add	468.14	
For >10 To 25, Add	275.53	
For >25 To 50, Add	199.69	
For >50 To 100, Add	99.85	
For >500 To 1,000, Deduct	-37.49	
For >1,000 To 2,000, Deduct	-56.75	
For >2,000 To 5,000, Deduct	-92.87	
For >5,000, Deduct	-154.09	
33 01 30 72-0178 LF 27mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	824.39	
For Vinlyester Resin, Add	544.22	
For Epoxy Resin, Add	64.14	
For Up To >10, Add	529.55	
For >10 To 25, Add	311.71	
For >25 To 50, Add	225.90	
For >50 To 100, Add	112.95	
For >500 To 1,000, Deduct	-42.39	
For >1,000 To 2,000, Deduct	-64.18	
For >2,000 To 5,000, Deduct	-105.03	
For >5,000, Deduct	-174.27	
33 01 30 72-0179 LF 27mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	919.65	
For Vinlyester Resin, Add	607.16	
For Epoxy Resin, Add	71.56	
For Up To >10, Add	590.53	
For >10 To 25, Add	347.54	
For >25 To 50, Add	251.89	
For >50 To 100, Add	125.95	
For >500 To 1,000, Deduct	-47.29	
For >1,000 To 2,000, Deduct	-71.59	
For >2,000 To 5,000, Deduct	-117.15	
For >5,000, Deduct	-194.39	
33 01 30 72-0180 LF 27mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,110.32	
For Vinlyester Resin, Add	733.05	
For Epoxy Resin, Add	86.40	
For Up To >10, Add	712.91	
For >10 To 25, Add	419.56	
For >25 To 50, Add	304.09	
For >50 To 100, Add	152.05	
For >500 To 1,000, Deduct	-57.09	
For >1,000 To 2,000, Deduct	-86.43	
For >2,000 To 5,000, Deduct	-141.44	
For >5,000, Deduct	-234.68	
33 01 30 72-0181 LF 27mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,301.13	
For Vinlyester Resin, Add	858.94	
For Epoxy Resin, Add	101.23	
For Up To >10, Add	835.74	
For >10 To 25, Add	491.94	
For >25 To 50, Add	356.52	
For >50 To 100, Add	178.26	
For >500 To 1,000, Deduct	-66.91	
For >1,000 To 2,000, Deduct	-101.29	
For >2,000 To 5,000, Deduct	-165.76	
For >5,000, Deduct	-275.04	
33 01 30 72-0182 LF 27mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,491.80	
For Vinlyester Resin, Add	984.84	
For Epoxy Resin, Add	116.07	
For Up To >10, Add	958.13	
For >10 To 25, Add	563.95	
For >25 To 50, Add	408.72	
For >50 To 100, Add	204.36	
For >500 To 1,000, Deduct	-76.71	
For >1,000 To 2,000, Deduct	-116.13	
For >2,000 To 5,000, Deduct	-190.05	
For >5,000, Deduct	-315.34	
33 01 30 72-0183 LF 27mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,682.46	
For Vinlyester Resin, Add	1,110.73	
For Epoxy Resin, Add	130.91	
For Up To >10, Add	1,080.51	
For >10 To 25, Add	635.96	
For >25 To 50, Add	460.92	
For >50 To 100, Add	230.46	
For >500 To 1,000, Deduct	-86.52	
For >1,000 To 2,000, Deduct	-130.97	
For >2,000 To 5,000, Deduct	-214.34	
For >5,000, Deduct	-355.63	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0184 LF 27mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,873.13	
For Vinlyester Resin, Add	1,236.62	
For Epoxy Resin, Add	145.74	
For Up To >10, Add	1,202.89	
For >10 To 25, Add	707.98	
For >25 To 50, Add	513.12	
For >50 To 100, Add	256.56	
For >500 To 1,000, Deduct	-96.32	
For >1,000 To 2,000, Deduct	-145.81	
For >2,000 To 5,000, Deduct	-238.62	
For >5,000, Deduct	-395.93	
33 01 30 72-0185 LF 27mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,069.70	
For Vinlyester Resin, Add	1,362.52	
For Epoxy Resin, Add	160.58	
For Up To >10, Add	1,342.98	
For >10 To 25, Add	794.74	
For >25 To 50, Add	574.17	
For >50 To 100, Add	287.08	
For >500 To 1,000, Deduct	-106.57	
For >1,000 To 2,000, Deduct	-161.39	
For >2,000 To 5,000, Deduct	-264.39	
For >5,000, Deduct	-438.59	
33 01 30 72-0186 LF 27mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,260.93	
For Vinlyester Resin, Add	1,488.40	
For Epoxy Resin, Add	175.42	
For Up To >10, Add	1,467.07	
For >10 To 25, Add	868.17	
For >25 To 50, Add	627.22	
For >50 To 100, Add	313.61	
For >500 To 1,000, Deduct	-116.41	
For >1,000 To 2,000, Deduct	-176.30	
For >2,000 To 5,000, Deduct	-288.81	
For >5,000, Deduct	-479.11	
33 01 30 72-0187 LF 27mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,452.16	
For Vinlyester Resin, Add	1,614.30	
For Epoxy Resin, Add	190.26	
For Up To >10, Add	1,591.13	
For >10 To 25, Add	941.59	
For >25 To 50, Add	680.26	
For >50 To 100, Add	340.13	
For >500 To 1,000, Deduct	-126.26	
For >1,000 To 2,000, Deduct	-191.21	
For >2,000 To 5,000, Deduct	-313.24	
For >5,000, Deduct	-519.64	
33 01 30 72-0188 LF 27mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,643.40	
For Vinlyester Resin, Add	1,740.19	
For Epoxy Resin, Add	205.09	
For Up To >10, Add	1,715.23	
For >10 To 25, Add	1,015.02	
For >25 To 50, Add	733.31	
For >50 To 100, Add	366.66	
For >500 To 1,000, Deduct	-136.11	
For >1,000 To 2,000, Deduct	-206.13	
For >2,000 To 5,000, Deduct	-337.67	
For >5,000, Deduct	-560.16	
<b>33 01 30 72-0189 28.5mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0190 LF 28.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	766.86	
For Vinlyester Resin, Add	506.70	
For Epoxy Resin, Add	59.72	
For Up To >10, Add	490.96	
For >10 To 25, Add	288.49	
For >25 To 50, Add	209.29	
For >50 To 100, Add	104.64	
For >500 To 1,000, Deduct	-39.42	
For >1,000 To 2,000, Deduct	-59.67	
For >2,000 To 5,000, Deduct	-97.61	
For >5,000, Deduct	-161.97	
33 01 30 72-0191 LF 28.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	867.54	
For Vinlyester Resin, Add	573.14	
For Epoxy Resin, Add	67.55	
For Up To >10, Add	555.70	
For >10 To 25, Add	326.62	
For >25 To 50, Add	236.91	
For >50 To 100, Add	118.45	
For >500 To 1,000, Deduct	-44.60	
For >1,000 To 2,000, Deduct	-67.50	
For >2,000 To 5,000, Deduct	-110.44	
For >5,000, Deduct	-183.26	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	72-0192	LF	28.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	968.08	
			For Vinlyester Resin, Add	639.58	
			For Epoxy Resin, Add	75.38	
			For Up To >10, Add	620.02	
			For >10 To 25, Add	364.40	
			For >25 To 50, Add	264.32	
			For >50 To 100, Add	132.16	
			For >500 To 1,000, Deduct	-49.76	
			For >1,000 To 2,000, Deduct	-75.33	
			For >2,000 To 5,000, Deduct	-123.24	
			For >5,000, Deduct	-204.49	
33 01 30	72-0193	LF	28.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,225.27	
			For Vinlyester Resin, Add	811.75	
			For Epoxy Resin, Add	95.67	
			For Up To >10, Add	776.71	
			For >10 To 25, Add	453.99	
			For >25 To 50, Add	330.37	
			For >50 To 100, Add	165.19	
			For >500 To 1,000, Deduct	-62.90	
			For >1,000 To 2,000, Deduct	-95.18	
			For >2,000 To 5,000, Deduct	-155.56	
			For >5,000, Deduct	-258.18	
33 01 30	72-0194	LF	28.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,370.38	
			For Vinlyester Resin, Add	905.35	
			For Epoxy Resin, Add	106.70	
			For Up To >10, Add	877.74	
			For >10 To 25, Add	515.89	
			For >25 To 50, Add	374.20	
			For >50 To 100, Add	187.10	
			For >500 To 1,000, Deduct	-70.44	
			For >1,000 To 2,000, Deduct	-106.63	
			For >2,000 To 5,000, Deduct	-174.46	
			For >5,000, Deduct	-289.48	
33 01 30	72-0195	LF	28.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,571.46	
			For Vinlyester Resin, Add	1,038.24	
			For Epoxy Resin, Add	122.36	
			For Up To >10, Add	1,006.38	
			For >10 To 25, Add	591.45	
			For >25 To 50, Add	429.03	
			For >50 To 100, Add	214.52	
			For >500 To 1,000, Deduct	-80.78	
			For >1,000 To 2,000, Deduct	-122.27	
			For >2,000 To 5,000, Deduct	-200.05	
			For >5,000, Deduct	-331.94	
33 01 30	72-0196	LF	28.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,772.55	
			For Vinlyester Resin, Add	1,171.13	
			For Epoxy Resin, Add	138.03	
			For Up To >10, Add	1,135.05	
			For >10 To 25, Add	667.04	
			For >25 To 50, Add	483.87	
			For >50 To 100, Add	241.94	
			For >500 To 1,000, Deduct	-91.12	
			For >1,000 To 2,000, Deduct	-137.92	
			For >2,000 To 5,000, Deduct	-225.64	
			For >5,000, Deduct	-374.41	
33 01 30	72-0197	LF	28.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,973.63	
			For Vinlyester Resin, Add	1,304.02	
			For Epoxy Resin, Add	153.69	
			For Up To >10, Add	1,263.69	
			For >10 To 25, Add	742.60	
			For >25 To 50, Add	538.70	
			For >50 To 100, Add	269.35	
			For >500 To 1,000, Deduct	-101.45	
			For >1,000 To 2,000, Deduct	-153.56	
			For >2,000 To 5,000, Deduct	-251.23	
			For >5,000, Deduct	-416.88	
33 01 30	72-0198	LF	28.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,180.90	
			For Vinlyester Resin, Add	1,436.90	
			For Epoxy Resin, Add	169.35	
			For Up To >10, Add	1,410.90	
			For >10 To 25, Add	833.63	
			For >25 To 50, Add	602.81	
			For >50 To 100, Add	301.41	
			For >500 To 1,000, Deduct	-112.25	
			For >1,000 To 2,000, Deduct	-169.98	
			For >2,000 To 5,000, Deduct	-278.37	
			For >5,000, Deduct	-461.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0199 LF 28.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,382.53	
For Vinylster Resin, Add	1,569.79	
For Epoxy Resin, Add	185.01	
For Up To >10, Add	1,541.22	
For >10 To 25, Add	910.59	
For >25 To 50, Add	658.48	
For >50 To 100, Add	329.24	
For >500 To 1,000, Deduct	-122.63	
For >1,000 To 2,000, Deduct	-185.69	
For >2,000 To 5,000, Deduct	-304.10	
For >5,000, Deduct	-504.50	
33 01 30 72-0200 LF 28.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,584.32	
For Vinylster Resin, Add	1,702.67	
For Epoxy Resin, Add	200.67	
For Up To >10, Add	1,671.99	
For >10 To 25, Add	987.92	
For >25 To 50, Add	714.37	
For >50 To 100, Add	357.19	
For >500 To 1,000, Deduct	-133.01	
For >1,000 To 2,000, Deduct	-201.42	
For >2,000 To 5,000, Deduct	-329.87	
For >5,000, Deduct	-547.25	
33 01 30 72-0201 LF 28.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,785.97	
For Vinylster Resin, Add	1,835.56	
For Epoxy Resin, Add	216.33	
For Up To >10, Add	1,802.34	
For >10 To 25, Add	1,064.91	
For >25 To 50, Add	770.06	
For >50 To 100, Add	385.03	
For >500 To 1,000, Deduct	-143.39	
For >1,000 To 2,000, Deduct	-217.13	
For >2,000 To 5,000, Deduct	-355.60	
For >5,000, Deduct	-589.94	
<b>33 01 30 72-0202 30mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b>		
33 01 30 72-0203 LF 30mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	804.53	
For Vinylster Resin, Add	531.99	
For Epoxy Resin, Add	62.70	
For Up To >10, Add	513.64	
For >10 To 25, Add	301.37	
For >25 To 50, Add	218.82	
For >50 To 100, Add	109.41	
For >500 To 1,000, Deduct	-41.34	
For >1,000 To 2,000, Deduct	-62.57	
For >2,000 To 5,000, Deduct	-102.34	
For >5,000, Deduct	-169.82	
33 01 30 72-0204 LF 30mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	910.36	
For Vinylster Resin, Add	601.93	
For Epoxy Resin, Add	70.94	
For Up To >10, Add	581.33	
For >10 To 25, Add	341.13	
For >25 To 50, Add	247.67	
For >50 To 100, Add	123.84	
For >500 To 1,000, Deduct	-46.78	
For >1,000 To 2,000, Deduct	-70.80	
For >2,000 To 5,000, Deduct	-115.80	
For >5,000, Deduct	-192.16	
33 01 30 72-0205 LF 30mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,016.17	
For Vinylster Resin, Add	671.87	
For Epoxy Resin, Add	79.18	
For Up To >10, Add	648.99	
For >10 To 25, Add	380.85	
For >25 To 50, Add	276.50	
For >50 To 100, Add	138.25	
For >500 To 1,000, Deduct	-52.22	
For >1,000 To 2,000, Deduct	-79.03	
For >2,000 To 5,000, Deduct	-129.27	
For >5,000, Deduct	-214.51	
33 01 30 72-0206 LF 30mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,227.66	
For Vinylster Resin, Add	811.75	
For Epoxy Resin, Add	95.67	
For Up To >10, Add	783.88	
For >10 To 25, Add	459.96	
For >25 To 50, Add	333.96	
For >50 To 100, Add	166.98	
For >500 To 1,000, Deduct	-63.08	
For >1,000 To 2,000, Deduct	-95.48	
For >2,000 To 5,000, Deduct	-156.16	
For >5,000, Deduct	-259.14	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0207 LF 30mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,439.29	
For Vinlyester Resin, Add	951.63	
For Epoxy Resin, Add	112.16	
For Up To >10, Add	919.20	
For >10 To 25, Add	539.42	
For >25 To 50, Add	391.62	
For >50 To 100, Add	195.81	
For >500 To 1,000, Deduct	-73.96	
For >1,000 To 2,000, Deduct	-111.94	
For >2,000 To 5,000, Deduct	-183.09	
For >5,000, Deduct	-303.82	
33 01 30 72-0208 LF 30mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,850.79	
For Vinlyester Resin, Add	1,091.51	
For Epoxy Resin, Add	128.64	
For Up To >10, Add	1,054.12	
For >10 To 25, Add	618.55	
For >25 To 50, Add	449.10	
For >50 To 100, Add	224.55	
For >500 To 1,000, Deduct	-84.83	
For >1,000 To 2,000, Deduct	-128.38	
For >2,000 To 5,000, Deduct	-209.99	
For >5,000, Deduct	-348.46	
33 01 30 72-0209 LF 30mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,862.43	
For Vinlyester Resin, Add	1,231.39	
For Epoxy Resin, Add	145.13	
For Up To >10, Add	1,189.47	
For >10 To 25, Add	698.03	
For >25 To 50, Add	506.78	
For >50 To 100, Add	253.39	
For >500 To 1,000, Deduct	-95.70	
For >1,000 To 2,000, Deduct	-144.85	
For >2,000 To 5,000, Deduct	-236.92	
For >5,000, Deduct	-393.15	
33 01 30 72-0210 LF 30mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,073.92	
For Vinlyester Resin, Add	1,371.27	
For Epoxy Resin, Add	161.61	
For Up To >10, Add	1,324.36	
For >10 To 25, Add	777.14	
For >25 To 50, Add	564.23	
For >50 To 100, Add	282.12	
For >500 To 1,000, Deduct	-106.57	
For >1,000 To 2,000, Deduct	-161.29	
For >2,000 To 5,000, Deduct	-263.82	
For >5,000, Deduct	-437.78	
33 01 30 72-0211 LF 30mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,291.88	
For Vinlyester Resin, Add	1,511.15	
For Epoxy Resin, Add	178.10	
For Up To >10, Add	1,478.67	
For >10 To 25, Add	872.42	
For >25 To 50, Add	631.39	
For >50 To 100, Add	315.70	
For >500 To 1,000, Deduct	-117.92	
For >1,000 To 2,000, Deduct	-178.55	
For >2,000 To 5,000, Deduct	-292.33	
For >5,000, Deduct	-484.99	
33 01 30 72-0212 LF 30mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,503.94	
For Vinlyester Resin, Add	1,651.03	
For Epoxy Resin, Add	194.59	
For Up To >10, Add	1,615.27	
For >10 To 25, Add	952.96	
For >25 To 50, Add	689.70	
For >50 To 100, Add	344.85	
For >500 To 1,000, Deduct	-128.83	
For >1,000 To 2,000, Deduct	-195.06	
For >2,000 To 5,000, Deduct	-319.36	
For >5,000, Deduct	-529.85	
33 01 30 72-0213 LF 30mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,716.13	
For Vinlyester Resin, Add	1,790.91	
For Epoxy Resin, Add	211.07	
For Up To >10, Add	1,752.29	
For >10 To 25, Add	1,033.84	
For >25 To 50, Add	748.22	
For >50 To 100, Add	374.11	
For >500 To 1,000, Deduct	-139.75	
For >1,000 To 2,000, Deduct	-211.59	
For >2,000 To 5,000, Deduct	-346.44	
For >5,000, Deduct	-574.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0214 LF 30mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,928.33	
<i>For Vinlyester Resin, Add</i>	1,930.79	
<i>For Epoxy Resin, Add</i>	227.56	
<i>For Up To &gt;10, Add</i>	1,889.32	
<i>For &gt;10 To 25, Add</i>	1,114.72	
<i>For &gt;25 To 50, Add</i>	806.74	
<i>For &gt;50 To 100, Add</i>	403.37	
<i>For &gt;500 To 1,000, Deduct</i>	-150.67	
<i>For &gt;1,000 To 2,000, Deduct</i>	-228.13	
<i>For &gt;2,000 To 5,000, Deduct</i>	-373.51	
<i>For &gt;5,000, Deduct</i>	-619.68	
33 01 30 72-0215 LF 30mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,140.38	
<i>For Vinlyester Resin, Add</i>	2,070.67	
<i>For Epoxy Resin, Add</i>	244.04	
<i>For Up To &gt;10, Add</i>	2,025.89	
<i>For &gt;10 To 25, Add</i>	1,195.23	
<i>For &gt;25 To 50, Add</i>	865.04	
<i>For &gt;50 To 100, Add</i>	432.52	
<i>For &gt;500 To 1,000, Deduct</i>	-161.58	
<i>For &gt;1,000 To 2,000, Deduct</i>	-244.64	
<i>For &gt;2,000 To 5,000, Deduct</i>	-400.54	
<i>For &gt;5,000, Deduct</i>	-664.53	
33 01 30 72-0216 LF 30mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,352.58	
<i>For Vinlyester Resin, Add</i>	2,210.55	
<i>For Epoxy Resin, Add</i>	260.53	
<i>For Up To &gt;10, Add</i>	2,162.92	
<i>For &gt;10 To 25, Add</i>	1,276.11	
<i>For &gt;25 To 50, Add</i>	923.56	
<i>For &gt;50 To 100, Add</i>	461.78	
<i>For &gt;500 To 1,000, Deduct</i>	-172.50	
<i>For &gt;1,000 To 2,000, Deduct</i>	-261.18	
<i>For &gt;2,000 To 5,000, Deduct</i>	-427.61	
<i>For &gt;5,000, Deduct</i>	-709.45	
<b>33 01 30 72-0217 31.5mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b>		
33 01 30 72-0218 LF 31.5mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	842.02	
<i>For Vinlyester Resin, Add</i>	557.14	
<i>For Epoxy Resin, Add</i>	65.66	
<i>For Up To &gt;10, Add</i>	536.26	
<i>For &gt;10 To 25, Add</i>	314.23	
<i>For &gt;25 To 50, Add</i>	228.33	
<i>For &gt;50 To 100, Add</i>	114.17	
<i>For &gt;500 To 1,000, Deduct</i>	-43.25	
<i>For &gt;1,000 To 2,000, Deduct</i>	-65.46	
<i>For &gt;2,000 To 5,000, Deduct</i>	-107.04	
<i>For &gt;5,000, Deduct</i>	-177.62	
33 01 30 72-0219 LF 31.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	952.97	
<i>For Vinlyester Resin, Add</i>	630.58	
<i>For Epoxy Resin, Add</i>	74.32	
<i>For Up To &gt;10, Add</i>	606.84	
<i>For &gt;10 To 25, Add</i>	355.56	
<i>For &gt;25 To 50, Add</i>	258.38	
<i>For &gt;50 To 100, Add</i>	129.19	
<i>For &gt;500 To 1,000, Deduct</i>	-48.95	
<i>For &gt;1,000 To 2,000, Deduct</i>	-74.08	
<i>For &gt;2,000 To 5,000, Deduct</i>	-121.13	
<i>For &gt;5,000, Deduct</i>	-201.02	
33 01 30 72-0220 LF 31.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,063.91	
<i>For Vinlyester Resin, Add</i>	704.01	
<i>For Epoxy Resin, Add</i>	82.97	
<i>For Up To &gt;10, Add</i>	677.41	
<i>For &gt;10 To 25, Add</i>	396.88	
<i>For &gt;25 To 50, Add</i>	288.42	
<i>For &gt;50 To 100, Add</i>	144.21	
<i>For &gt;500 To 1,000, Deduct</i>	-54.65	
<i>For &gt;1,000 To 2,000, Deduct</i>	-82.70	
<i>For &gt;2,000 To 5,000, Deduct</i>	-135.23	
<i>For &gt;5,000, Deduct</i>	-224.42	
33 01 30 72-0221 LF 31.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,285.97	
<i>For Vinlyester Resin, Add</i>	850.89	
<i>For Epoxy Resin, Add</i>	100.28	
<i>For Up To &gt;10, Add</i>	819.01	
<i>For &gt;10 To 25, Add</i>	479.92	
<i>For &gt;25 To 50, Add</i>	348.73	
<i>For &gt;50 To 100, Add</i>	174.36	
<i>For &gt;500 To 1,000, Deduct</i>	-66.06	
<i>For &gt;1,000 To 2,000, Deduct</i>	-99.97	
<i>For &gt;2,000 To 5,000, Deduct</i>	-163.47	
<i>For &gt;5,000, Deduct</i>	-271.28	

**33 Utilities**  
**33 01 Operation and Maintenance of Utilities**  
**33 01 30 Operation and Maintenance of Sewer Utilities**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01	30	72-0222	LF 31.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,507.88	
			For Vinlyester Resin, Add	997.77	
			For Epoxy Resin, Add	117.59	
			For Up To >10, Add	960.19	
			For >10 To 25, Add	562.60	
			For >25 To 50, Add	408.83	
			For >50 To 100, Add	204.41	
			For >500 To 1,000, Deduct	-77.46	
			For >1,000 To 2,000, Deduct	-117.22	
			For >2,000 To 5,000, Deduct	-191.67	
			For >5,000, Deduct	-318.08	
33 01	30	72-0223	LF 31.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,729.93	
			For Vinlyester Resin, Add	1,144.64	
			For Epoxy Resin, Add	134.90	
			For Up To >10, Add	1,101.79	
			For >10 To 25, Add	645.63	
			For >25 To 50, Add	469.14	
			For >50 To 100, Add	234.57	
			For >500 To 1,000, Deduct	-88.86	
			For >1,000 To 2,000, Deduct	-134.48	
			For >2,000 To 5,000, Deduct	-219.91	
			For >5,000, Deduct	-364.93	
33 01	30	72-0224	LF 31.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,951.83	
			For Vinlyester Resin, Add	1,291.51	
			For Epoxy Resin, Add	152.21	
			For Up To >10, Add	1,242.94	
			For >10 To 25, Add	728.28	
			For >25 To 50, Add	529.22	
			For >50 To 100, Add	264.61	
			For >500 To 1,000, Deduct	-100.26	
			For >1,000 To 2,000, Deduct	-151.73	
			For >2,000 To 5,000, Deduct	-248.10	
			For >5,000, Deduct	-411.73	
33 01	30	72-0225	LF 31.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,173.74	
			For Vinlyester Resin, Add	1,438.39	
			For Epoxy Resin, Add	169.52	
			For Up To >10, Add	1,384.12	
			For >10 To 25, Add	810.96	
			For >25 To 50, Add	589.32	
			For >50 To 100, Add	294.66	
			For >500 To 1,000, Deduct	-111.66	
			For >1,000 To 2,000, Deduct	-168.98	
			For >2,000 To 5,000, Deduct	-276.31	
			For >5,000, Deduct	-458.53	
33 01	30	72-0226	LF 31.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,402.40	
			For Vinlyester Resin, Add	1,585.26	
			For Epoxy Resin, Add	186.83	
			For Up To >10, Add	1,545.55	
			For >10 To 25, Add	910.52	
			For >25 To 50, Add	659.54	
			For >50 To 100, Add	329.77	
			For >500 To 1,000, Deduct	-123.56	
			For >1,000 To 2,000, Deduct	-187.07	
			For >2,000 To 5,000, Deduct	-306.19	
			For >5,000, Deduct	-508.03	
33 01	30	72-0227	LF 31.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,642.04	
			For Vinlyester Resin, Add	1,743.97	
			For Epoxy Resin, Add	205.54	
			For Up To >10, Add	1,697.67	
			For >10 To 25, Add	999.50	
			For >25 To 50, Add	724.27	
			For >50 To 100, Add	362.13	
			For >500 To 1,000, Deduct	-135.87	
			For >1,000 To 2,000, Deduct	-205.69	
			For >2,000 To 5,000, Deduct	-336.63	
			For >5,000, Deduct	-558.54	
33 01	30	72-0228	LF 31.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,847.47	
			For Vinlyester Resin, Add	1,879.01	
			For Epoxy Resin, Add	221.45	
			For Up To >10, Add	1,831.66	
			For >10 To 25, Add	1,079.00	
			For >25 To 50, Add	781.62	
			For >50 To 100, Add	390.81	
			For >500 To 1,000, Deduct	-146.45	
			For >1,000 To 2,000, Deduct	-221.72	
			For >2,000 To 5,000, Deduct	-362.91	
			For >5,000, Deduct	-602.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0229 LF 31.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,070.88	
For Vinlyester Resin, Add	2,025.88	
For Epoxy Resin, Add	238.76	
For Up To >10, Add	1,974.94	
For >10 To 25, Add	1,163.43	
For >25 To 50, Add	842.76	
For >50 To 100, Add	421.38	
For >500 To 1,000, Deduct	-157.90	
For >1,000 To 2,000, Deduct	-239.05	
For >2,000 To 5,000, Deduct	-391.28	
For >5,000, Deduct	-649.21	
33 01 30 72-0230 LF 31.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,292.54	
For Vinlyester Resin, Add	2,172.76	
For Epoxy Resin, Add	256.08	
For Up To >10, Add	2,117.77	
For >10 To 25, Add	1,247.49	
For >25 To 50, Add	903.69	
For >50 To 100, Add	451.84	
For >500 To 1,000, Deduct	-169.34	
For >1,000 To 2,000, Deduct	-256.37	
For >2,000 To 5,000, Deduct	-419.62	
For >5,000, Deduct	-696.23	
33 01 30 72-0231 LF 31.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,515.16	
For Vinlyester Resin, Add	2,319.63	
For Epoxy Resin, Add	273.39	
For Up To >10, Add	2,261.08	
For >10 To 25, Add	1,331.94	
For >25 To 50, Add	964.85	
For >50 To 100, Add	482.43	
For >500 To 1,000, Deduct	-180.79	
For >1,000 To 2,000, Deduct	-273.71	
For >2,000 To 5,000, Deduct	-448.00	
For >5,000, Deduct	-743.31	
<b>33 01 30 72-0232 33mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b>		
33 01 30 72-0233 LF 33mm Lining 24" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	879.16	
For Vinlyester Resin, Add	582.16	
For Epoxy Resin, Add	68.61	
For Up To >10, Add	558.33	
For >10 To 25, Add	326.67	
For >25 To 50, Add	237.58	
For >50 To 100, Add	118.79	
For >500 To 1,000, Deduct	-45.15	
For >1,000 To 2,000, Deduct	-68.31	
For >2,000 To 5,000, Deduct	-111.67	
For >5,000, Deduct	-185.33	
33 01 30 72-0234 LF 33mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	995.38	
For Vinlyester Resin, Add	659.09	
For Epoxy Resin, Add	77.68	
For Up To >10, Add	632.24	
For >10 To 25, Add	369.94	
For >25 To 50, Add	269.04	
For >50 To 100, Add	134.52	
For >500 To 1,000, Deduct	-51.11	
For >1,000 To 2,000, Deduct	-77.34	
For >2,000 To 5,000, Deduct	-126.44	
For >5,000, Deduct	-209.84	
33 01 30 72-0235 LF 33mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,111.47	
For Vinlyester Resin, Add	736.02	
For Epoxy Resin, Add	86.75	
For Up To >10, Add	705.76	
For >10 To 25, Add	412.89	
For >25 To 50, Add	300.31	
For >50 To 100, Add	150.15	
For >500 To 1,000, Deduct	-57.07	
For >1,000 To 2,000, Deduct	-86.36	
For >2,000 To 5,000, Deduct	-141.18	
For >5,000, Deduct	-234.30	
33 01 30 72-0236 LF 33mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,343.94	
For Vinlyester Resin, Add	889.90	
For Epoxy Resin, Add	104.88	
For Up To >10, Add	853.62	
For >10 To 25, Add	499.47	
For >25 To 50, Add	363.25	
For >50 To 100, Add	181.62	
For >500 To 1,000, Deduct	-69.01	
For >1,000 To 2,000, Deduct	-104.43	
For >2,000 To 5,000, Deduct	-170.72	
For >5,000, Deduct	-283.32	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0237 LF 33mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,576.26	
For Vinlyester Resin, Add	1,043.76	
For Epoxy Resin, Add	123.01	
For Up To >10, Add	1,001.06	
For >10 To 25, Add	585.70	
For >25 To 50, Add	425.97	
For >50 To 100, Add	212.99	
For >500 To 1,000, Deduct	-80.94	
For >1,000 To 2,000, Deduct	-122.48	
For >2,000 To 5,000, Deduct	-200.22	
For >5,000, Deduct	-332.29	
33 01 30 72-0238 LF 33mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,808.72	
For Vinlyester Resin, Add	1,197.63	
For Epoxy Resin, Add	141.15	
For Up To >10, Add	1,148.91	
For >10 To 25, Add	672.28	
For >25 To 50, Add	488.91	
For >50 To 100, Add	244.46	
For >500 To 1,000, Deduct	-92.88	
For >1,000 To 2,000, Deduct	-140.55	
For >2,000 To 5,000, Deduct	-229.76	
For >5,000, Deduct	-381.31	
33 01 30 72-0239 LF 33mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,041.04	
For Vinlyester Resin, Add	1,351.50	
For Epoxy Resin, Add	159.28	
For Up To >10, Add	1,296.35	
For >10 To 25, Add	758.50	
For >25 To 50, Add	551.64	
For >50 To 100, Add	275.82	
For >500 To 1,000, Deduct	-104.81	
For >1,000 To 2,000, Deduct	-158.59	
For >2,000 To 5,000, Deduct	-259.27	
For >5,000, Deduct	-430.27	
33 01 30 72-0240 LF 33mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,273.36	
For Vinlyester Resin, Add	1,505.37	
For Epoxy Resin, Add	177.42	
For Up To >10, Add	1,443.76	
For >10 To 25, Add	844.71	
For >25 To 50, Add	614.35	
For >50 To 100, Add	307.18	
For >500 To 1,000, Deduct	-116.74	
For >1,000 To 2,000, Deduct	-176.64	
For >2,000 To 5,000, Deduct	-288.77	
For >5,000, Deduct	-479.24	
33 01 30 72-0241 LF 33mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,512.57	
For Vinlyester Resin, Add	1,659.24	
For Epoxy Resin, Add	195.55	
For Up To >10, Add	1,611.86	
For >10 To 25, Add	948.16	
For >25 To 50, Add	687.41	
For >50 To 100, Add	343.71	
For >500 To 1,000, Deduct	-129.18	
For >1,000 To 2,000, Deduct	-195.55	
For >2,000 To 5,000, Deduct	-320.00	
For >5,000, Deduct	-530.96	
33 01 30 72-0242 LF 33mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,746.02	
For Vinlyester Resin, Add	1,813.11	
For Epoxy Resin, Add	213.69	
For Up To >10, Add	1,762.69	
For >10 To 25, Add	1,037.21	
For >25 To 50, Add	751.84	
For >50 To 100, Add	375.92	
For >500 To 1,000, Deduct	-141.20	
For >1,000 To 2,000, Deduct	-213.75	
For >2,000 To 5,000, Deduct	-349.79	
For >5,000, Deduct	-580.38	
33 01 30 72-0243 LF 33mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,978.47	
For Vinlyester Resin, Add	1,966.97	
For Epoxy Resin, Add	231.82	
For Up To >10, Add	1,910.51	
For >10 To 25, Add	1,123.77	
For >25 To 50, Add	814.76	
For >50 To 100, Add	407.38	
For >500 To 1,000, Deduct	-153.14	
For >1,000 To 2,000, Deduct	-231.81	
For >2,000 To 5,000, Deduct	-379.32	
For >5,000, Deduct	-629.40	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0244 LF 33mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,211.49	
For Vinlyester Resin, Add	2,120.84	
For Epoxy Resin, Add	249.96	
For Up To >10, Add	2,060.05	
For >10 To 25, Add	1,211.74	
For >25 To 50, Add	878.53	
For >50 To 100, Add	439.27	
For >500 To 1,000, Deduct	-165.12	
For >1,000 To 2,000, Deduct	-249.95	
For >2,000 To 5,000, Deduct	-409.00	
For >5,000, Deduct	-678.64	
33 01 30 72-0245 LF 33mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,444.52	
For Vinlyester Resin, Add	2,274.71	
For Epoxy Resin, Add	268.09	
For Up To >10, Add	2,209.59	
For >10 To 25, Add	1,299.72	
For >25 To 50, Add	942.31	
For >50 To 100, Add	471.16	
For >500 To 1,000, Deduct	-177.10	
For >1,000 To 2,000, Deduct	-268.09	
For >2,000 To 5,000, Deduct	-438.68	
For >5,000, Deduct	-727.89	
33 01 30 72-0246 LF 33mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,677.55	
For Vinlyester Resin, Add	2,428.58	
For Epoxy Resin, Add	286.23	
For Up To >10, Add	2,359.15	
For >10 To 25, Add	1,387.73	
For >25 To 50, Add	1,006.11	
For >50 To 100, Add	503.05	
For >500 To 1,000, Deduct	-189.08	
For >1,000 To 2,000, Deduct	-286.22	
For >2,000 To 5,000, Deduct	-468.37	
For >5,000, Deduct	-777.14	
<b>33 01 30 72-0247 34.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0248 LF 34.5mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,037.19	
For Vinlyester Resin, Add	687.47	
For Epoxy Resin, Add	81.02	
For Up To >10, Add	656.32	
For >10 To 25, Add	383.25	
For >25 To 50, Add	279.06	
For >50 To 100, Add	139.53	
For >500 To 1,000, Deduct	-53.24	
For >1,000 To 2,000, Deduct	-80.54	
For >2,000 To 5,000, Deduct	-131.62	
For >5,000, Deduct	-218.46	
33 01 30 72-0249 LF 34.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,158.55	
For Vinlyester Resin, Add	767.89	
For Epoxy Resin, Add	90.50	
For Up To >10, Add	733.18	
For >10 To 25, Add	428.15	
For >25 To 50, Add	311.74	
For >50 To 100, Add	155.87	
For >500 To 1,000, Deduct	-59.47	
For >1,000 To 2,000, Deduct	-89.97	
For >2,000 To 5,000, Deduct	-147.03	
For >5,000, Deduct	-244.02	
33 01 30 72-0250 LF 34.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,401.29	
For Vinlyester Resin, Add	928.76	
For Epoxy Resin, Add	109.46	
For Up To >10, Add	886.87	
For >10 To 25, Add	517.93	
For >25 To 50, Add	377.10	
For >50 To 100, Add	188.55	
For >500 To 1,000, Deduct	-71.93	
For >1,000 To 2,000, Deduct	-108.82	
For >2,000 To 5,000, Deduct	-177.84	
For >5,000, Deduct	-295.16	
33 01 30 72-0251 LF 34.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,643.88	
For Vinlyester Resin, Add	1,089.62	
For Epoxy Resin, Add	128.42	
For Up To >10, Add	1,040.14	
For >10 To 25, Add	607.35	
For >25 To 50, Add	442.24	
For >50 To 100, Add	221.12	
For >500 To 1,000, Deduct	-84.38	
For >1,000 To 2,000, Deduct	-127.66	
For >2,000 To 5,000, Deduct	-208.61	
For >5,000, Deduct	-346.23	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0252 LF 34.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,886.62	
For Vinlyester Resin, Add	1,250.49	
For Epoxy Resin, Add	147.38	
For Up To >10, Add	1,193.84	
For >10 To 25, Add	697.13	
For >25 To 50, Add	507.60	
For >50 To 100, Add	253.80	
For >500 To 1,000, Deduct	-96.84	
For >1,000 To 2,000, Deduct	-146.51	
For >2,000 To 5,000, Deduct	-239.42	
For >5,000, Deduct	-397.37	
33 01 30 72-0253 LF 34.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,129.20	
For Vinlyester Resin, Add	1,411.35	
For Epoxy Resin, Add	166.34	
For Up To >10, Add	1,347.08	
For >10 To 25, Add	786.53	
For >25 To 50, Add	572.73	
For >50 To 100, Add	286.36	
For >500 To 1,000, Deduct	-109.28	
For >1,000 To 2,000, Deduct	-165.34	
For >2,000 To 5,000, Deduct	-270.19	
For >5,000, Deduct	-448.44	
33 01 30 72-0254 LF 34.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,371.94	
For Vinlyester Resin, Add	1,572.21	
For Epoxy Resin, Add	185.30	
For Up To >10, Add	1,500.77	
For >10 To 25, Add	876.31	
For >25 To 50, Add	638.08	
For >50 To 100, Add	319.04	
For >500 To 1,000, Deduct	-121.75	
For >1,000 To 2,000, Deduct	-184.19	
For >2,000 To 5,000, Deduct	-301.00	
For >5,000, Deduct	-499.57	
33 01 30 72-0255 LF 34.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,621.56	
For Vinlyester Resin, Add	1,733.07	
For Epoxy Resin, Add	204.26	
For Up To >10, Add	1,675.13	
For >10 To 25, Add	983.31	
For >25 To 50, Add	713.77	
For >50 To 100, Add	356.89	
For >500 To 1,000, Deduct	-134.72	
For >1,000 To 2,000, Deduct	-203.90	
For >2,000 To 5,000, Deduct	-333.53	
For >5,000, Deduct	-553.46	
33 01 30 72-0256 LF 34.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,865.13	
For Vinlyester Resin, Add	1,893.93	
For Epoxy Resin, Add	223.21	
For Up To >10, Add	1,831.34	
For >10 To 25, Add	1,075.18	
For >25 To 50, Add	780.39	
For >50 To 100, Add	390.19	
For >500 To 1,000, Deduct	-147.24	
For >1,000 To 2,000, Deduct	-222.86	
For >2,000 To 5,000, Deduct	-364.55	
For >5,000, Deduct	-604.93	
33 01 30 72-0257 LF 34.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,105.90	
For Vinlyester Resin, Add	2,054.80	
For Epoxy Resin, Add	242.17	
For Up To >10, Add	1,979.13	
For >10 To 25, Add	1,160.03	
For >25 To 50, Add	842.79	
For >50 To 100, Add	421.40	
For >500 To 1,000, Deduct	-159.56	
For >1,000 To 2,000, Deduct	-241.47	
For >2,000 To 5,000, Deduct	-394.87	
For >5,000, Deduct	-655.27	
33 01 30 72-0258 LF 34.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,351.59	
For Vinlyester Resin, Add	2,215.66	
For Epoxy Resin, Add	261.13	
For Up To >10, Add	2,141.70	
For >10 To 25, Add	1,257.21	
For >25 To 50, Add	912.59	
For >50 To 100, Add	456.29	
For >500 To 1,000, Deduct	-172.24	
For >1,000 To 2,000, Deduct	-260.69	
For >2,000 To 5,000, Deduct	-426.42	
For >5,000, Deduct	-707.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0259 LF 34.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,594.88	
For Vinlyester Resin, Add	2,376.52	
For Epoxy Resin, Add	280.09	
For Up To >10, Add	2,297.07	
For >10 To 25, Add	1,348.38	
For >25 To 50, Add	978.78	
For >50 To 100, Add	489.39	
For >500 To 1,000, Deduct	-184.74	
For >1,000 To 2,000, Deduct	-279.61	
For >2,000 To 5,000, Deduct	-457.37	
For >5,000, Deduct	-758.95	
33 01 30 72-0260 LF 34.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,838.19	
For Vinlyester Resin, Add	2,537.39	
For Epoxy Resin, Add	299.05	
For Up To >10, Add	2,452.47	
For >10 To 25, Add	1,439.59	
For >25 To 50, Add	1,044.99	
For >50 To 100, Add	522.50	
For >500 To 1,000, Deduct	-197.24	
For >1,000 To 2,000, Deduct	-298.53	
For >2,000 To 5,000, Deduct	-488.32	
For >5,000, Deduct	-810.31	
<b>33 01 30 72-0261 36mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0262 LF 36mm Lining 27" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,078.79	
For Vinlyester Resin, Add	715.70	
For Epoxy Resin, Add	84.35	
For Up To >10, Add	680.30	
For >10 To 25, Add	396.51	
For >25 To 50, Add	289.03	
For >50 To 100, Add	144.51	
For >500 To 1,000, Deduct	-55.35	
For >1,000 To 2,000, Deduct	-83.73	
For >2,000 To 5,000, Deduct	-136.78	
For >5,000, Deduct	-227.03	
33 01 30 72-0263 LF 36mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,205.29	
For Vinlyester Resin, Add	799.63	
For Epoxy Resin, Add	94.24	
For Up To >10, Add	760.05	
For >10 To 25, Add	442.98	
For >25 To 50, Add	322.91	
For >50 To 100, Add	161.45	
For >500 To 1,000, Deduct	-61.84	
For >1,000 To 2,000, Deduct	-93.54	
For >2,000 To 5,000, Deduct	-152.82	
For >5,000, Deduct	-253.65	
33 01 30 72-0264 LF 36mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,458.31	
For Vinlyester Resin, Add	967.49	
For Epoxy Resin, Add	114.03	
For Up To >10, Add	919.61	
For >10 To 25, Add	535.98	
For >25 To 50, Add	390.70	
For >50 To 100, Add	195.35	
For >500 To 1,000, Deduct	-74.82	
For >1,000 To 2,000, Deduct	-113.18	
For >2,000 To 5,000, Deduct	-184.90	
For >5,000, Deduct	-306.90	
33 01 30 72-0265 LF 36mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,711.30	
For Vinlyester Resin, Add	1,135.34	
For Epoxy Resin, Add	133.81	
For Up To >10, Add	1,079.10	
For >10 To 25, Add	628.93	
For >25 To 50, Add	458.45	
For >50 To 100, Add	229.23	
For >500 To 1,000, Deduct	-87.80	
For >1,000 To 2,000, Deduct	-132.82	
For >2,000 To 5,000, Deduct	-216.98	
For >5,000, Deduct	-360.14	
33 01 30 72-0266 LF 36mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,964.18	
For Vinlyester Resin, Add	1,303.20	
For Epoxy Resin, Add	153.59	
For Up To >10, Add	1,238.24	
For >10 To 25, Add	721.58	
For >25 To 50, Add	526.03	
For >50 To 100, Add	263.02	
For >500 To 1,000, Deduct	-100.77	
For >1,000 To 2,000, Deduct	-152.44	
For >2,000 To 5,000, Deduct	-249.02	
For >5,000, Deduct	-413.33	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30	72-0267	LF	36mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,217.18	
			For Vinlyester Resin, Add	1,471.06	
			For Epoxy Resin, Add	173.37	
			For Up To >10, Add	1,397.77	
			For >10 To 25, Add	814.55	
			For >25 To 50, Add	593.81	
			For >50 To 100, Add	296.90	
			For >500 To 1,000, Deduct	-113.75	
			For >1,000 To 2,000, Deduct	-172.07	
			For >2,000 To 5,000, Deduct	-281.10	
			For >5,000, Deduct	-466.57	
33 01 30	72-0268	LF	36mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,470.19	
			For Vinlyester Resin, Add	1,638.92	
			For Epoxy Resin, Add	193.16	
			For Up To >10, Add	1,557.30	
			For >10 To 25, Add	907.53	
			For >25 To 50, Add	661.58	
			For >50 To 100, Add	330.79	
			For >500 To 1,000, Deduct	-126.73	
			For >1,000 To 2,000, Deduct	-191.71	
			For >2,000 To 5,000, Deduct	-313.18	
			For >5,000, Deduct	-519.81	
33 01 30	72-0269	LF	36mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,730.35	
			For Vinlyester Resin, Add	1,806.77	
			For Epoxy Resin, Add	212.94	
			For Up To >10, Add	1,738.30	
			For >10 To 25, Add	1,018.40	
			For >25 To 50, Add	740.10	
			For >50 To 100, Add	370.05	
			For >500 To 1,000, Deduct	-140.25	
			For >1,000 To 2,000, Deduct	-212.24	
			For >2,000 To 5,000, Deduct	-347.04	
			For >5,000, Deduct	-575.92	
33 01 30	72-0270	LF	36mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,984.07	
			For Vinlyester Resin, Add	1,974.63	
			For Epoxy Resin, Add	232.72	
			For Up To >10, Add	1,899.96	
			For >10 To 25, Add	1,113.15	
			For >25 To 50, Add	808.94	
			For >50 To 100, Add	404.47	
			For >500 To 1,000, Deduct	-153.28	
			For >1,000 To 2,000, Deduct	-231.96	
			For >2,000 To 5,000, Deduct	-379.30	
			For >5,000, Deduct	-629.45	
33 01 30	72-0271	LF	36mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,233.00	
			For Vinlyester Resin, Add	2,142.48	
			For Epoxy Resin, Add	252.51	
			For Up To >10, Add	2,047.28	
			For >10 To 25, Add	1,195.95	
			For >25 To 50, Add	870.60	
			For >50 To 100, Add	435.30	
			For >500 To 1,000, Deduct	-165.96	
			For >1,000 To 2,000, Deduct	-251.09	
			For >2,000 To 5,000, Deduct	-410.36	
			For >5,000, Deduct	-681.06	
33 01 30	72-0272	LF	36mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,491.35	
			For Vinlyester Resin, Add	2,310.34	
			For Epoxy Resin, Add	272.29	
			For Up To >10, Add	2,222.83	
			For >10 To 25, Add	1,302.27	
			For >25 To 50, Add	946.39	
			For >50 To 100, Add	473.19	
			For >500 To 1,000, Deduct	-179.34	
			For >1,000 To 2,000, Deduct	-271.39	
			For >2,000 To 5,000, Deduct	-443.77	
			For >5,000, Deduct	-736.44	
33 01 30	72-0273	LF	36mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,745.05	
			For Vinlyester Resin, Add	2,478.20	
			For Epoxy Resin, Add	292.07	
			For Up To >10, Add	2,384.45	
			For >10 To 25, Add	1,397.00	
			For >25 To 50, Add	1,015.21	
			For >50 To 100, Add	507.61	
			For >500 To 1,000, Deduct	-192.37	
			For >1,000 To 2,000, Deduct	-291.12	
			For >2,000 To 5,000, Deduct	-476.03	
			For >5,000, Deduct	-789.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0274 LF 36mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,998.76	
For Vinylster Resin, Add	2,646.06	
For Epoxy Resin, Add	311.86	
For Up To >10, Add	2,546.08	
For >10 To 25, Add	1,491.72	
For >25 To 50, Add	1,084.04	
For >50 To 100, Add	542.02	
For >500 To 1,000, Deduct	-205.41	
For >1,000 To 2,000, Deduct	-310.84	
For >2,000 To 5,000, Deduct	-508.28	
For >5,000, Deduct	-843.49	
33 01 30 72-0275 LF 36mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,252.33	
For Vinylster Resin, Add	2,813.91	
For Epoxy Resin, Add	331.64	
For Up To >10, Add	2,707.32	
For >10 To 25, Add	1,586.12	
For >25 To 50, Add	1,152.66	
For >50 To 100, Add	576.33	
For >500 To 1,000, Deduct	-218.43	
For >1,000 To 2,000, Deduct	-330.55	
For >2,000 To 5,000, Deduct	-540.50	
For >5,000, Deduct	-896.96	
33 01 30 72-0276 LF 36mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,506.04	
For Vinylster Resin, Add	2,981.77	
For Epoxy Resin, Add	351.42	
For Up To >10, Add	2,868.95	
For >10 To 25, Add	1,680.84	
For >25 To 50, Add	1,221.49	
For >50 To 100, Add	610.74	
For >500 To 1,000, Deduct	-231.46	
For >1,000 To 2,000, Deduct	-350.27	
For >2,000 To 5,000, Deduct	-572.75	
For >5,000, Deduct	-950.48	
<b>33 01 30 72-0277 37.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0278 LF 37.5mm Lining 30" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,251.70	
For Vinylster Resin, Add	831.23	
For Epoxy Resin, Add	97.97	
For Up To >10, Add	786.43	
For >10 To 25, Add	457.44	
For >25 To 50, Add	333.84	
For >50 To 100, Add	166.92	
For >500 To 1,000, Deduct	-64.19	
For >1,000 To 2,000, Deduct	-97.09	
For >2,000 To 5,000, Deduct	-158.55	
For >5,000, Deduct	-263.19	
33 01 30 72-0279 LF 37.5mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,514.98	
For Vinylster Resin, Add	1,006.08	
For Epoxy Resin, Add	118.57	
For Up To >10, Add	951.79	
For >10 To 25, Add	553.62	
For >25 To 50, Add	404.03	
For >50 To 100, Add	202.02	
For >500 To 1,000, Deduct	-77.69	
For >1,000 To 2,000, Deduct	-117.51	
For >2,000 To 5,000, Deduct	-191.90	
For >5,000, Deduct	-318.54	
33 01 30 72-0280 LF 37.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,778.26	
For Vinylster Resin, Add	1,180.93	
For Epoxy Resin, Add	139.18	
For Up To >10, Add	1,117.18	
For >10 To 25, Add	649.81	
For >25 To 50, Add	474.24	
For >50 To 100, Add	237.12	
For >500 To 1,000, Deduct	-91.19	
For >1,000 To 2,000, Deduct	-137.93	
For >2,000 To 5,000, Deduct	-225.25	
For >5,000, Deduct	-373.90	
33 01 30 72-0281 LF 37.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,041.53	
For Vinylster Resin, Add	1,355.78	
For Epoxy Resin, Add	159.79	
For Up To >10, Add	1,282.52	
For >10 To 25, Add	745.96	
For >25 To 50, Add	544.42	
For >50 To 100, Add	272.21	
For >500 To 1,000, Deduct	-104.69	
For >1,000 To 2,000, Deduct	-158.35	
For >2,000 To 5,000, Deduct	-258.59	
For >5,000, Deduct	-429.25	

**33 Utilities**  
**33 01 Operation and Maintenance of Utilities**  
**33 01 30 Operation and Maintenance of Sewer Utilities**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01	30	72-0282	LF 37.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,304.82	
			For Vinlyester Resin, Add	1,530.63	
			For Epoxy Resin, Add	180.40	
			For Up To >10, Add	1,447.91	
			For >10 To 25, Add	842.16	
			For >25 To 50, Add	614.62	
			For >50 To 100, Add	307.31	
			For >500 To 1,000, Deduct	-118.20	
			For >1,000 To 2,000, Deduct	-178.77	
			For >2,000 To 5,000, Deduct	-291.94	
			For >5,000, Deduct	-484.60	
33 01	30	72-0283	LF 37.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,568.10	
			For Vinlyester Resin, Add	1,705.49	
			For Epoxy Resin, Add	201.00	
			For Up To >10, Add	1,613.28	
			For >10 To 25, Add	938.33	
			For >25 To 50, Add	684.82	
			For >50 To 100, Add	342.41	
			For >500 To 1,000, Deduct	-131.70	
			For >1,000 To 2,000, Deduct	-199.19	
			For >2,000 To 5,000, Deduct	-325.29	
			For >5,000, Deduct	-539.96	
33 01	30	72-0284	LF 37.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,838.68	
			For Vinlyester Resin, Add	1,880.33	
			For Epoxy Resin, Add	221.61	
			For Up To >10, Add	1,800.57	
			For >10 To 25, Add	1,052.77	
			For >25 To 50, Add	765.97	
			For >50 To 100, Add	382.99	
			For >500 To 1,000, Deduct	-145.75	
			For >1,000 To 2,000, Deduct	-220.53	
			For >2,000 To 5,000, Deduct	-360.47	
			For >5,000, Deduct	-598.23	
33 01	30	72-0285	LF 37.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,102.65	
			For Vinlyester Resin, Add	2,055.18	
			For Epoxy Resin, Add	242.22	
			For Up To >10, Add	1,968.03	
			For >10 To 25, Add	1,150.69	
			For >25 To 50, Add	837.21	
			For >50 To 100, Add	418.61	
			For >500 To 1,000, Deduct	-159.30	
			For >1,000 To 2,000, Deduct	-241.03	
			For >2,000 To 5,000, Deduct	-393.99	
			For >5,000, Deduct	-653.87	
33 01	30	72-0286	LF 37.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,364.25	
			For Vinlyester Resin, Add	2,230.03	
			For Epoxy Resin, Add	262.83	
			For Up To >10, Add	2,128.35	
			For >10 To 25, Add	1,242.67	
			For >25 To 50, Add	904.89	
			For >50 To 100, Add	452.44	
			For >500 To 1,000, Deduct	-172.67	
			For >1,000 To 2,000, Deduct	-261.24	
			For >2,000 To 5,000, Deduct	-426.91	
			For >5,000, Deduct	-708.55	
33 01	30	72-0287	LF 37.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,630.62	
			For Vinlyester Resin, Add	2,404.89	
			For Epoxy Resin, Add	283.43	
			For Up To >10, Add	2,302.99	
			For >10 To 25, Add	1,346.56	
			For >25 To 50, Add	979.72	
			For >50 To 100, Add	489.86	
			For >500 To 1,000, Deduct	-186.41	
			For >1,000 To 2,000, Deduct	-282.05	
			For >2,000 To 5,000, Deduct	-461.03	
			For >5,000, Deduct	-765.14	
33 01	30	72-0288	LF 37.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,894.61	
			For Vinlyester Resin, Add	2,579.74	
			For Epoxy Resin, Add	304.04	
			For Up To >10, Add	2,470.48	
			For >10 To 25, Add	1,444.51	
			For >25 To 50, Add	1,050.97	
			For >50 To 100, Add	525.49	
			For >500 To 1,000, Deduct	-199.96	
			For >1,000 To 2,000, Deduct	-302.56	
			For >2,000 To 5,000, Deduct	-494.56	
			For >5,000, Deduct	-820.78	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0289 LF 37.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,158.44	
For Vinlyester Resin, Add	2,754.58	
For Epoxy Resin, Add	324.65	
For Up To >10, Add	2,637.52	
For >10 To 25, Add	1,542.08	
For >25 To 50, Add	1,122.00	
For >50 To 100, Add	561.00	
For >500 To 1,000, Deduct	-213.51	
For >1,000 To 2,000, Deduct	-323.05	
For >2,000 To 5,000, Deduct	-528.04	
For >5,000, Deduct	-876.35	
33 01 30 72-0290 LF 37.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,422.42	
For Vinlyester Resin, Add	2,929.44	
For Epoxy Resin, Add	345.26	
For Up To >10, Add	2,804.99	
For >10 To 25, Add	1,640.00	
For >25 To 50, Add	1,193.25	
For >50 To 100, Add	596.62	
For >500 To 1,000, Deduct	-227.06	
For >1,000 To 2,000, Deduct	-343.56	
For >2,000 To 5,000, Deduct	-561.57	
For >5,000, Deduct	-931.99	
33 01 30 72-0291 LF 37.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,686.41	
For Vinlyester Resin, Add	3,104.29	
For Epoxy Resin, Add	365.86	
For Up To >10, Add	2,972.48	
For >10 To 25, Add	1,737.95	
For >25 To 50, Add	1,264.51	
For >50 To 100, Add	632.25	
For >500 To 1,000, Deduct	-240.61	
For >1,000 To 2,000, Deduct	-364.07	
For >2,000 To 5,000, Deduct	-595.09	
For >5,000, Deduct	-987.62	
<b>33 01 30 72-0292 39mm Thick Lining Cured In-Place Pipe <small>(33 01 30 72-0015)</small></b>		
33 01 30 72-0293 LF 39mm Lining 36" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,571.46	
For Vinlyester Resin, Add	1,044.53	
For Epoxy Resin, Add	123.11	
For Up To >10, Add	983.91	
For >10 To 25, Add	571.22	
For >25 To 50, Add	417.34	
For >50 To 100, Add	208.67	
For >500 To 1,000, Deduct	-80.55	
For >1,000 To 2,000, Deduct	-121.82	
For >2,000 To 5,000, Deduct	-198.88	
For >5,000, Deduct	-330.15	
33 01 30 72-0294 LF 39mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,845.01	
For Vinlyester Resin, Add	1,226.38	
For Epoxy Resin, Add	144.54	
For Up To >10, Add	1,155.11	
For >10 To 25, Add	670.59	
For >25 To 50, Add	489.95	
For >50 To 100, Add	244.98	
For >500 To 1,000, Deduct	-94.58	
For >1,000 To 2,000, Deduct	-143.03	
For >2,000 To 5,000, Deduct	-233.50	
For >5,000, Deduct	-387.61	
33 01 30 72-0295 LF 39mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,118.56	
For Vinlyester Resin, Add	1,408.23	
For Epoxy Resin, Add	165.97	
For Up To >10, Add	1,326.31	
For >10 To 25, Add	769.96	
For >25 To 50, Add	562.57	
For >50 To 100, Add	281.28	
For >500 To 1,000, Deduct	-108.60	
For >1,000 To 2,000, Deduct	-164.23	
For >2,000 To 5,000, Deduct	-268.11	
For >5,000, Deduct	-445.07	
33 01 30 72-0296 LF 39mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,392.11	
For Vinlyester Resin, Add	1,590.06	
For Epoxy Resin, Add	187.40	
For Up To >10, Add	1,497.53	
For >10 To 25, Add	869.36	
For >25 To 50, Add	635.19	
For >50 To 100, Add	317.59	
For >500 To 1,000, Deduct	-122.62	
For >1,000 To 2,000, Deduct	-185.44	
For >2,000 To 5,000, Deduct	-302.73	
For >5,000, Deduct	-502.54	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0297 LF 39mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,665.80	
For Vinlyester Resin, Add	1,771.91	
For Epoxy Resin, Add	208.83	
For Up To >10, Add	1,669.15	
For >10 To 25, Add	969.08	
For >25 To 50, Add	708.01	
For >50 To 100, Add	354.01	
For >500 To 1,000, Deduct	-136.65	
For >1,000 To 2,000, Deduct	-206.66	
For >2,000 To 5,000, Deduct	-337.38	
For >5,000, Deduct	-560.06	
33 01 30 72-0298 LF 39mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,946.66	
For Vinlyester Resin, Add	1,953.76	
For Epoxy Resin, Add	230.26	
For Up To >10, Add	1,862.28	
For >10 To 25, Add	1,086.72	
For >25 To 50, Add	791.59	
For >50 To 100, Add	395.79	
For >500 To 1,000, Deduct	-151.22	
For >1,000 To 2,000, Deduct	-228.78	
For >2,000 To 5,000, Deduct	-373.82	
For >5,000, Deduct	-620.45	
33 01 30 72-0299 LF 39mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,220.92	
For Vinlyester Resin, Add	2,135.60	
For Epoxy Resin, Add	251.70	
For Up To >10, Add	2,035.61	
For >10 To 25, Add	1,187.87	
For >25 To 50, Add	865.26	
For >50 To 100, Add	432.63	
For >500 To 1,000, Deduct	-165.30	
For >1,000 To 2,000, Deduct	-250.07	
For >2,000 To 5,000, Deduct	-408.62	
For >5,000, Deduct	-678.20	
33 01 30 72-0300 LF 39mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,495.17	
For Vinlyester Resin, Add	2,317.45	
For Epoxy Resin, Add	273.13	
For Up To >10, Add	2,208.91	
For >10 To 25, Add	1,288.99	
For >25 To 50, Add	938.92	
For >50 To 100, Add	469.46	
For >500 To 1,000, Deduct	-179.37	
For >1,000 To 2,000, Deduct	-271.36	
For >2,000 To 5,000, Deduct	-443.41	
For >5,000, Deduct	-735.94	
33 01 30 72-0301 LF 39mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,769.56	
For Vinlyester Resin, Add	2,499.29	
For Epoxy Resin, Add	294.56	
For Up To >10, Add	2,382.66	
For >10 To 25, Add	1,390.48	
For >25 To 50, Add	1,012.81	
For >50 To 100, Add	506.40	
For >500 To 1,000, Deduct	-193.46	
For >1,000 To 2,000, Deduct	-292.67	
For >2,000 To 5,000, Deduct	-478.24	
For >5,000, Deduct	-793.74	
33 01 30 72-0302 LF 39mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,043.82	
For Vinlyester Resin, Add	2,681.13	
For Epoxy Resin, Add	315.99	
For Up To >10, Add	2,555.99	
For >10 To 25, Add	1,491.62	
For >25 To 50, Add	1,086.48	
For >50 To 100, Add	543.24	
For >500 To 1,000, Deduct	-207.53	
For >1,000 To 2,000, Deduct	-313.97	
For >2,000 To 5,000, Deduct	-513.03	
For >5,000, Deduct	-851.49	
33 01 30 72-0303 LF 39mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,318.07	
For Vinlyester Resin, Add	2,862.98	
For Epoxy Resin, Add	337.42	
For Up To >10, Add	2,729.29	
For >10 To 25, Add	1,592.74	
For >25 To 50, Add	1,160.14	
For >50 To 100, Add	580.07	
For >500 To 1,000, Deduct	-221.61	
For >1,000 To 2,000, Deduct	-335.26	
For >2,000 To 5,000, Deduct	-547.82	
For >5,000, Deduct	-909.23	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0304 LF 39mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,592.32	
For Vinlyester Resin, Add	3,044.83	
For Epoxy Resin, Add	358.85	
For Up To >10, Add	2,902.59	
For >10 To 25, Add	1,693.86	
For >25 To 50, Add	1,233.81	
For >50 To 100, Add	616.90	
For >500 To 1,000, Deduct	-235.68	
For >1,000 To 2,000, Deduct	-356.55	
For >2,000 To 5,000, Deduct	-582.61	
For >5,000, Deduct	-966.98	
33 01 30 72-0305 LF 39mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,866.59	
For Vinlyester Resin, Add	3,226.67	
For Epoxy Resin, Add	380.29	
For Up To >10, Add	3,075.95	
For >10 To 25, Add	1,795.03	
For >25 To 50, Add	1,307.50	
For >50 To 100, Add	653.75	
For >500 To 1,000, Deduct	-249.76	
For >1,000 To 2,000, Deduct	-377.85	
For >2,000 To 5,000, Deduct	-617.41	
For >5,000, Deduct	-1,024.73	
33 01 30 72-0306 LF 39mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,140.83	
For Vinlyester Resin, Add	3,408.51	
For Epoxy Resin, Add	401.72	
For Up To >10, Add	3,249.24	
For >10 To 25, Add	1,896.15	
For >25 To 50, Add	1,381.16	
For >50 To 100, Add	690.58	
For >500 To 1,000, Deduct	-263.83	
For >1,000 To 2,000, Deduct	-399.14	
For >2,000 To 5,000, Deduct	-652.20	
For >5,000, Deduct	-1,082.47	
33 01 30 72-0307 LF 39mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,415.08	
For Vinlyester Resin, Add	3,590.36	
For Epoxy Resin, Add	423.15	
For Up To >10, Add	3,422.54	
For >10 To 25, Add	1,997.27	
For >25 To 50, Add	1,454.82	
For >50 To 100, Add	727.41	
For >500 To 1,000, Deduct	-277.90	
For >1,000 To 2,000, Deduct	-420.43	
For >2,000 To 5,000, Deduct	-686.99	
For >5,000, Deduct	-1,140.22	
<b>33 01 30 72-0308 40.5mm Thick Lining Cured In-Place Pipe (33 01 30 72-0015)</b>		
33 01 30 72-0309 LF 40.5mm Lining 42" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	1,911.43	
For Vinlyester Resin, Add	1,271.69	
For Epoxy Resin, Add	149.88	
For Up To >10, Add	1,192.54	
For >10 To 25, Add	691.00	
For >25 To 50, Add	505.44	
For >50 To 100, Add	252.72	
For >500 To 1,000, Deduct	-97.94	
For >1,000 To 2,000, Deduct	-148.09	
For >2,000 To 5,000, Deduct	-241.69	
For >5,000, Deduct	-401.23	
33 01 30 72-0310 LF 40.5mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,195.24	
For Vinlyester Resin, Add	1,460.52	
For Epoxy Resin, Add	172.13	
For Up To >10, Add	1,369.57	
For >10 To 25, Add	793.57	
For >25 To 50, Add	580.46	
For >50 To 100, Add	290.23	
For >500 To 1,000, Deduct	-112.48	
For >1,000 To 2,000, Deduct	-170.08	
For >2,000 To 5,000, Deduct	-277.57	
For >5,000, Deduct	-460.80	
33 01 30 72-0311 LF 40.5mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,479.07	
For Vinlyester Resin, Add	1,649.37	
For Epoxy Resin, Add	194.39	
For Up To >10, Add	1,546.61	
For >10 To 25, Add	896.14	
For >25 To 50, Add	655.49	
For >50 To 100, Add	327.75	
For >500 To 1,000, Deduct	-127.02	
For >1,000 To 2,000, Deduct	-192.07	
For >2,000 To 5,000, Deduct	-313.46	
For >5,000, Deduct	-520.38	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0312 LF 40.5mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,762.89	
For Vinlyester Resin, Add	1,838.20	
For Epoxy Resin, Add	216.65	
For Up To >10, Add	1,723.67	
For >10 To 25, Add	998.73	
For >25 To 50, Add	730.54	
For >50 To 100, Add	365.27	
For >500 To 1,000, Deduct	-141.57	
For >1,000 To 2,000, Deduct	-214.06	
For >2,000 To 5,000, Deduct	-349.34	
For >5,000, Deduct	-579.96	
33 01 30 72-0313 LF 40.5mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,054.31	
For Vinlyester Resin, Add	2,027.05	
For Epoxy Resin, Add	238.90	
For Up To >10, Add	1,923.48	
For >10 To 25, Add	1,120.27	
For >25 To 50, Add	816.95	
For >50 To 100, Add	408.48	
For >500 To 1,000, Deduct	-156.68	
For >1,000 To 2,000, Deduct	-237.00	
For >2,000 To 5,000, Deduct	-387.13	
For >5,000, Deduct	-642.57	
33 01 30 72-0314 LF 40.5mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,338.83	
For Vinlyester Resin, Add	2,215.88	
For Epoxy Resin, Add	261.16	
For Up To >10, Add	2,102.64	
For >10 To 25, Add	1,224.61	
For >25 To 50, Add	893.04	
For >50 To 100, Add	446.52	
For >500 To 1,000, Deduct	-171.27	
For >1,000 To 2,000, Deduct	-259.08	
For >2,000 To 5,000, Deduct	-423.19	
For >5,000, Deduct	-702.42	
33 01 30 72-0315 LF 40.5mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,623.36	
For Vinlyester Resin, Add	2,404.72	
For Epoxy Resin, Add	283.41	
For Up To >10, Add	2,281.81	
For >10 To 25, Add	1,328.95	
For >25 To 50, Add	969.14	
For >50 To 100, Add	484.57	
For >500 To 1,000, Deduct	-185.87	
For >1,000 To 2,000, Deduct	-281.15	
For >2,000 To 5,000, Deduct	-459.25	
For >5,000, Deduct	-762.28	
33 01 30 72-0316 LF 40.5mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,907.88	
For Vinlyester Resin, Add	2,593.56	
For Epoxy Resin, Add	305.67	
For Up To >10, Add	2,460.94	
For >10 To 25, Add	1,433.27	
For >25 To 50, Add	1,045.22	
For >50 To 100, Add	522.61	
For >500 To 1,000, Deduct	-200.46	
For >1,000 To 2,000, Deduct	-303.23	
For >2,000 To 5,000, Deduct	-495.31	
For >5,000, Deduct	-822.14	
33 01 30 72-0317 LF 40.5mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,192.41	
For Vinlyester Resin, Add	2,782.40	
For Epoxy Resin, Add	327.93	
For Up To >10, Add	2,640.11	
For >10 To 25, Add	1,537.61	
For >25 To 50, Add	1,121.31	
For >50 To 100, Add	560.66	
For >500 To 1,000, Deduct	-215.06	
For >1,000 To 2,000, Deduct	-325.31	
For >2,000 To 5,000, Deduct	-531.37	
For >5,000, Deduct	-881.99	
33 01 30 72-0318 LF 40.5mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,476.94	
For Vinlyester Resin, Add	2,971.23	
For Epoxy Resin, Add	350.18	
For Up To >10, Add	2,819.27	
For >10 To 25, Add	1,641.96	
For >25 To 50, Add	1,197.40	
For >50 To 100, Add	598.70	
For >500 To 1,000, Deduct	-229.66	
For >1,000 To 2,000, Deduct	-347.39	
For >2,000 To 5,000, Deduct	-567.43	
For >5,000, Deduct	-941.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0319 LF 40.5mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,761.46	
For Vinlyester Resin, Add	3,160.07	
For Epoxy Resin, Add	372.44	
For Up To >10, Add	2,998.41	
For >10 To 25, Add	1,746.27	
For >25 To 50, Add	1,273.48	
For >50 To 100, Add	636.74	
For >500 To 1,000, Deduct	-244.25	
For >1,000 To 2,000, Deduct	-369.46	
For >2,000 To 5,000, Deduct	-603.49	
For >5,000, Deduct	-1,001.71	
33 01 30 72-0320 LF 40.5mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,045.99	
For Vinlyester Resin, Add	3,348.91	
For Epoxy Resin, Add	394.69	
For Up To >10, Add	3,177.57	
For >10 To 25, Add	1,850.62	
For >25 To 50, Add	1,349.58	
For >50 To 100, Add	674.79	
For >500 To 1,000, Deduct	-258.85	
For >1,000 To 2,000, Deduct	-391.54	
For >2,000 To 5,000, Deduct	-639.56	
For >5,000, Deduct	-1,061.56	
33 01 30 72-0321 LF 40.5mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,330.52	
For Vinlyester Resin, Add	3,537.75	
For Epoxy Resin, Add	416.95	
For Up To >10, Add	3,356.74	
For >10 To 25, Add	1,954.96	
For >25 To 50, Add	1,425.67	
For >50 To 100, Add	712.84	
For >500 To 1,000, Deduct	-273.44	
For >1,000 To 2,000, Deduct	-413.62	
For >2,000 To 5,000, Deduct	-675.62	
For >5,000, Deduct	-1,121.42	
33 01 30 72-0322 LF 40.5mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,615.05	
For Vinlyester Resin, Add	3,726.59	
For Epoxy Resin, Add	439.21	
For Up To >10, Add	3,535.90	
For >10 To 25, Add	2,059.30	
For >25 To 50, Add	1,501.77	
For >50 To 100, Add	750.88	
For >500 To 1,000, Deduct	-288.04	
For >1,000 To 2,000, Deduct	-435.70	
For >2,000 To 5,000, Deduct	-711.68	
For >5,000, Deduct	-1,181.28	
<b>33 01 30 72-0323 42mm Thick Lining Cured In-Place Pipe</b> <small>(33 01 30 72-0015)</small>		
33 01 30 72-0324 LF 42mm Lining 48" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,271.59	
For Vinlyester Resin, Add	1,512.69	
For Epoxy Resin, Add	178.28	
For Up To >10, Add	1,412.30	
For >10 To 25, Add	816.75	
For >25 To 50, Add	598.10	
For >50 To 100, Add	299.05	
For >500 To 1,000, Deduct	-116.34	
For >1,000 To 2,000, Deduct	-175.90	
For >2,000 To 5,000, Deduct	-286.97	
For >5,000, Deduct	-476.44	
33 01 30 72-0325 LF 42mm Lining 54" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,565.69	
For Vinlyester Resin, Add	1,708.53	
For Epoxy Resin, Add	201.36	
For Up To >10, Add	1,595.20	
For >10 To 25, Add	922.54	
For >25 To 50, Add	675.56	
For >50 To 100, Add	337.78	
For >500 To 1,000, Deduct	-131.41	
For >1,000 To 2,000, Deduct	-198.67	
For >2,000 To 5,000, Deduct	-324.13	
For >5,000, Deduct	-538.13	
33 01 30 72-0326 LF 42mm Lining 60" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	2,859.79	
For Vinlyester Resin, Add	1,904.36	
For Epoxy Resin, Add	224.44	
For Up To >10, Add	1,778.10	
For >10 To 25, Add	1,028.33	
For >25 To 50, Add	753.02	
For >50 To 100, Add	376.51	
For >500 To 1,000, Deduct	-146.47	
For >1,000 To 2,000, Deduct	-221.45	
For >2,000 To 5,000, Deduct	-361.28	
For >5,000, Deduct	-599.81	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0327 LF 42mm Lining 66" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,161.62	
For Vinlyester Resin, Add	2,100.19	
For Epoxy Resin, Add	247.52	
For Up To >10, Add	1,984.19	
For >10 To 25, Add	1,153.44	
For >25 To 50, Add	842.08	
For >50 To 100, Add	421.04	
For >500 To 1,000, Deduct	-162.11	
For >1,000 To 2,000, Deduct	-245.19	
For >2,000 To 5,000, Deduct	-400.37	
For >5,000, Deduct	-664.59	
33 01 30 72-0328 LF 42mm Lining 72" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,456.42	
For Vinlyester Resin, Add	2,296.03	
For Epoxy Resin, Add	270.60	
For Up To >10, Add	2,169.16	
For >10 To 25, Add	1,260.96	
For >25 To 50, Add	920.58	
For >50 To 100, Add	460.29	
For >500 To 1,000, Deduct	-177.23	
For >1,000 To 2,000, Deduct	-268.05	
For >2,000 To 5,000, Deduct	-437.70	
For >5,000, Deduct	-726.56	
33 01 30 72-0329 LF 42mm Lining 78" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	3,751.21	
For Vinlyester Resin, Add	2,491.85	
For Epoxy Resin, Add	293.68	
For Up To >10, Add	2,354.16	
For >10 To 25, Add	1,368.50	
For >25 To 50, Add	999.09	
For >50 To 100, Add	499.54	
For >500 To 1,000, Deduct	-192.35	
For >1,000 To 2,000, Deduct	-290.91	
For >2,000 To 5,000, Deduct	-475.03	
For >5,000, Deduct	-788.53	
33 01 30 72-0330 LF 42mm Lining 84" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,046.01	
For Vinlyester Resin, Add	2,687.69	
For Epoxy Resin, Add	316.76	
For Up To >10, Add	2,539.16	
For >10 To 25, Add	1,476.04	
For >25 To 50, Add	1,077.60	
For >50 To 100, Add	538.80	
For >500 To 1,000, Deduct	-207.46	
For >1,000 To 2,000, Deduct	-313.77	
For >2,000 To 5,000, Deduct	-512.36	
For >5,000, Deduct	-850.49	
33 01 30 72-0331 LF 42mm Lining 90" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,340.82	
For Vinlyester Resin, Add	2,883.52	
For Epoxy Resin, Add	339.84	
For Up To >10, Add	2,724.16	
For >10 To 25, Add	1,583.58	
For >25 To 50, Add	1,156.11	
For >50 To 100, Add	578.06	
For >500 To 1,000, Deduct	-222.58	
For >1,000 To 2,000, Deduct	-336.64	
For >2,000 To 5,000, Deduct	-549.69	
For >5,000, Deduct	-912.46	
33 01 30 72-0332 LF 42mm Lining 96" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,635.62	
For Vinlyester Resin, Add	3,079.36	
For Epoxy Resin, Add	362.92	
For Up To >10, Add	2,909.16	
For >10 To 25, Add	1,691.12	
For >25 To 50, Add	1,234.63	
For >50 To 100, Add	617.31	
For >500 To 1,000, Deduct	-237.69	
For >1,000 To 2,000, Deduct	-359.50	
For >2,000 To 5,000, Deduct	-587.02	
For >5,000, Deduct	-974.43	
33 01 30 72-0333 LF 42mm Lining 102" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	4,930.41	
For Vinlyester Resin, Add	3,275.19	
For Epoxy Resin, Add	386.00	
For Up To >10, Add	3,094.13	
For >10 To 25, Add	1,798.64	
For >25 To 50, Add	1,313.12	
For >50 To 100, Add	656.56	
For >500 To 1,000, Deduct	-252.81	
For >1,000 To 2,000, Deduct	-382.36	
For >2,000 To 5,000, Deduct	-624.35	
For >5,000, Deduct	-1,036.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 72-0334 LF 42mm Lining 108" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,225.21	
For Vinylster Resin, Add	3,471.02	
For Epoxy Resin, Add	409.08	
For Up To >10, Add	3,279.13	
For >10 To 25, Add	1,906.18	
For >25 To 50, Add	1,391.64	
For >50 To 100, Add	695.82	
For >500 To 1,000, Deduct	-267.93	
For >1,000 To 2,000, Deduct	-405.22	
For >2,000 To 5,000, Deduct	-661.68	
For >5,000, Deduct	-1,098.36	
33 01 30 72-0335 LF 42mm Lining 114" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,520.00	
For Vinylster Resin, Add	3,666.85	
For Epoxy Resin, Add	432.16	
For Up To >10, Add	3,464.10	
For >10 To 25, Add	2,013.69	
For >25 To 50, Add	1,470.13	
For >50 To 100, Add	735.07	
For >500 To 1,000, Deduct	-283.04	
For >1,000 To 2,000, Deduct	-428.08	
For >2,000 To 5,000, Deduct	-699.01	
For >5,000, Deduct	-1,160.33	
33 01 30 72-0336 LF 42mm Lining 120" Pipe With Resin Impregnated Cured In-Place Pipe (CIPP).....	5,814.80	
For Vinylster Resin, Add	3,862.68	
For Epoxy Resin, Add	455.24	
For Up To >10, Add	3,649.10	
For >10 To 25, Add	2,121.23	
For >25 To 50, Add	1,548.64	
For >50 To 100, Add	774.32	
For >500 To 1,000, Deduct	-298.16	
For >1,000 To 2,000, Deduct	-450.94	
For >2,000 To 5,000, Deduct	-736.34	
For >5,000, Deduct	-1,222.30	
<b>33 01 30 74 Cured-in-Place Lateral Lining (33 01 30)</b>		
33 01 30 74-0001 Laterals; Cutting, Grouting And Reinstatement (33 01 30 74)		
33 01 30 74-0002 Lateral Reinstatement/Reconnection (33 01 30 74-0001)		
33 01 30 74-0003 EA Cut Liner For Laterals, Up To 4" (Robotic).....	573.31	
33 01 30 74-0004 EA Cut Liner For Laterals, 6" (Robotic).....	619.78	
33 01 30 74-0005 EA Cut Liner For Laterals, 8" (Robotic).....	658.53	
33 01 30 74-0006 EA Cut Liner For Laterals, 10" (Robotic).....	697.26	
33 01 30 74-0007 EA Cut Liner For Laterals, 12" (Robotic).....	736.00	
33 01 30 74-0008 Grout Lateral Service (33 01 30 74-0001)		
33 01 30 74-0009 Grout Lateral Service - Bladder (33 01 30 74-0008)		
33 01 30 74-0010 EA Grout Up To 4" Lateral Service - Bladder.....	642.98	
33 01 30 74-0011 EA Grout 6" Lateral Service - Bladder.....	736.80	
33 01 30 74-0012 EA Grout 8" Lateral Service - Bladder.....	830.62	
33 01 30 74-0013 Grout Lateral Service - Robotic Trowel Application (33 01 30 74-0008)		
33 01 30 74-0014 EA Grout 3" To 6" Lateral Service - Robotic Trowel Application.....	698.86	
33 01 30 74-0015 EA Grout 8" To 12" Lateral Service - Robotic Trowel Application.....	754.73	
33 01 30 74-0016 Lateral T-Liner (33 01 30 74-0001)		
Note: As manufactured by LMK.		
33 01 30 74-0017 EA Up To 4" Lateral T-Liner.....	808.19	
33 01 30 74-0018 EA 6" Lateral T-Liner.....	905.23	
33 01 30 74-0019 EA 8" Lateral T-Liner.....	1,051.63	
33 01 30 74-0020 Lining Lateral Pipe (33 01 30 74-0001)		
33 01 30 74-0021 Lining Lateral Pipe (33 01 30 74-0020)		
33 01 30 74-0022 LF 6mm Lining 3" Lateral Pipe With Cured In-Place Pipe (CIPP).....	40.54	
For 7.5mm, Add	4.37	
For 9 mm, Add	8.64	
33 01 30 74-0023 LF 6mm Lining 4" Lateral Pipe With Cured In-Place Pipe (CIPP).....	48.26	
For 7.5mm, Add	5.95	
For 9 mm, Add	11.76	
33 01 30 74-0024 LF 6mm Lining 6" Lateral Pipe With Cured In-Place Pipe (CIPP).....	62.63	
For 7.5mm, Add	9.11	
For 9 mm, Add	18.01	
<b>33 01 30 79 Fold-and-Form Pipe Lining (33 01 30)</b>		

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0001 Form and Fold Relining Underground Pipelines <small>(33 01 30 79)</small> Note: Excludes CCTV inspection and sewer cleaning. See CSI section 33 01 30 11-0000 for CCTV inspection, 33 01 30 41-0002 for sewer cleaning.		
33 01 30 79-0002 Fold-And-Form Relining Underground Pipelines Set-Up And Reinsertion <small>(33 01 30 79-0001)</small>		
33 01 30 79-0003 EA Initial Set Up And Final Equipment Removal For Fold-And-Form Relining Underground Pipelines.....	5,621.72	
33 01 30 79-0004 EA Move And Reset Up At Different Access/Location For Fold-And-Form Relining Underground Pipelines .....	2,248.68	
33 01 30 79-0005 Form And Fold Polyethylene (PE) Pipeliner <small>(33 01 30 79-0001)</small>		
33 01 30 79-0006 LF 4" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....	66.75	
For DR 26 Pipe Liner, Add	13.68	
For Up To 75, Add	29.00	
For >75 To 150, Add	14.50	
For >500 To 1,000, Deduct	-0.90	
For >1,000 To 2,000, Deduct	-1.81	
For >2,000, Deduct	-3.61	
33 01 30 79-0007 LF 6" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....	87.29	
For DR 26 Pipe Liner, Add	18.58	
For DR 35 Pipe Liner, Deduct	-9.29	
For Up To 75, Add	34.32	
For >75 To 150, Add	17.16	
For >500 To 1,000, Deduct	-0.97	
For >1,000 To 2,000, Deduct	-1.95	
For >2,000, Deduct	-3.89	
33 01 30 79-0008 LF 8" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....	89.75	
For DR 26 Pipe Liner, Add	18.93	
For DR 35 Pipe Liner, Deduct	-9.46	
For Up To 75, Add	36.22	
For >75 To 150, Add	18.11	
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 2,000, Deduct	-2.11	
For >2,000, Deduct	-4.22	
33 01 30 79-0009 LF 10" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....	128.88	
For DR 26 Pipe Liner, Add	28.39	
For DR 35 Pipe Liner, Deduct	-14.19	
For DR 41 Pipe Liner, Deduct	-28.39	
For Up To 75, Add	45.71	
For >75 To 150, Add	22.85	
For >500 To 1,000, Deduct	-1.15	
For >1,000 To 2,000, Deduct	-2.30	
For >2,000, Deduct	-4.60	
33 01 30 79-0010 LF 12" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....	183.06	
For DR 26 Pipe Liner, Add	41.55	
For DR 35 Pipe Liner, Deduct	-20.78	
For DR 41 Pipe Liner, Deduct	-41.55	
For Up To 75, Add	58.53	
For >75 To 150, Add	29.27	
For >500 To 1,000, Deduct	-1.26	
For >1,000 To 2,000, Deduct	-2.53	
For >2,000, Deduct	-5.06	
33 01 30 79-0011 LF 15" Diameter Form and Fold Polyethylene Pipeliner, DR 32.5 .....	253.14	
For DR 35 Pipe Liner, Deduct	-29.25	
For DR 41 Pipe Liner, Deduct	-58.50	
For Up To 75, Add	75.54	
For >75 To 150, Add	37.77	
For >500 To 1,000, Deduct	-1.44	
For >1,000 To 2,000, Deduct	-2.87	
For >2,000, Deduct	-5.75	
33 01 30 79-0012 LF 18" Diameter Form and Fold Polyethylene Pipeliner, DR 35 .....	360.89	
For DR 41 Pipe Liner, Deduct	-33.93	
For DR 50 Pipe Liner, Deduct	-67.85	
For Up To 75, Add	100.28	
For >75 To 150, Add	50.14	
For >500 To 1,000, Deduct	-1.62	
For >1,000 To 2,000, Deduct	-3.24	
For >2,000, Deduct	-6.49	
33 01 30 79-0013 LF 21" Diameter Form and Fold Polyethylene Pipeliner, DR 47 .....	408.80	
For DR 50 Pipe Liner, Deduct	-57.81	
For DR 55 Pipe Liner, Deduct	-96.35	
For Up To 75, Add	112.21	
For >75 To 150, Add	56.10	
For >500 To 1,000, Deduct	-1.76	
For >1,000 To 2,000, Deduct	-3.51	
For >2,000, Deduct	-7.03	
33 01 30 79-0014 LF 24" Diameter Form and Fold Polyethylene Pipeliner, DR 55 .....	500.40	
For DR 60 Pipe Liner, Deduct	-71.23	
For Up To 75, Add	133.30	
For >75 To 150, Add	66.65	
For >500 To 1,000, Deduct	-1.92	
For >1,000 To 2,000, Deduct	-3.83	
For >2,000, Deduct	-7.67	
33 01 30 79-0015 Form And Fold Polyvinyl Chloride (PVC) Pipeliner <small>(33 01 30 79-0001)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 79-0016 LF 4" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	71.91	
For Up To 75, Add	30.03	
For >75 To 150, Add	15.02	
For >500 To 1,000, Deduct	-0.90	
For >1,000 To 2,000, Deduct	-1.81	
For >2,000, Deduct	-3.61	
For DR 26 Pipe Liner, Add	14.97	
33 01 30 79-0017 LF 6" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	87.29	
For Up To 75, Add	34.32	
For >75 To 150, Add	17.16	
For >500 To 1,000, Deduct	-0.97	
For >1,000 To 2,000, Deduct	-1.95	
For >2,000, Deduct	-3.89	
For DR 26 Pipe Liner, Add	18.58	
For DR 35 Pipe Liner, Deduct	-9.29	
33 01 30 79-0018 LF 8" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	96.63	
For Up To 75, Add	37.59	
For >75 To 150, Add	18.80	
For >500 To 1,000, Deduct	-1.05	
For >1,000 To 2,000, Deduct	-2.11	
For >2,000, Deduct	-4.22	
For DR 26 Pipe Liner, Add	20.65	
For DR 35 Pipe Liner, Deduct	-10.32	
33 01 30 79-0019 LF 10" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	139.20	
For Up To 75, Add	47.77	
For >75 To 150, Add	23.88	
For >500 To 1,000, Deduct	-1.15	
For >1,000 To 2,000, Deduct	-2.30	
For >2,000, Deduct	-4.60	
For DR 26 Pipe Liner, Add	30.97	
For DR 35 Pipe Liner, Deduct	-15.48	
For DR 41 Pipe Liner, Deduct	-30.97	
33 01 30 79-0020 LF 12" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	198.54	
For Up To 75, Add	61.63	
For >75 To 150, Add	30.81	
For >500 To 1,000, Deduct	-1.26	
For >1,000 To 2,000, Deduct	-2.53	
For >2,000, Deduct	-5.06	
For DR 26 Pipe Liner, Add	45.42	
For DR 35 Pipe Liner, Deduct	-22.71	
For DR 41 Pipe Liner, Deduct	-45.42	
33 01 30 79-0021 LF 15" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 32.5.....	275.16	
For Up To 75, Add	79.94	
For >75 To 150, Add	39.97	
For >500 To 1,000, Deduct	-1.44	
For >1,000 To 2,000, Deduct	-2.87	
For >2,000, Deduct	-5.75	
For DR 35 Pipe Liner, Deduct	-32.00	
For DR 41 Pipe Liner, Deduct	-64.00	
33 01 30 79-0022 LF 18" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 35.....	393.24	
For Up To 75, Add	106.75	
For >75 To 150, Add	53.38	
For >500 To 1,000, Deduct	-1.62	
For >1,000 To 2,000, Deduct	-3.24	
For >2,000, Deduct	-6.49	
For DR 41 Pipe Liner, Deduct	-37.16	
For DR 50 Pipe Liner, Deduct	-74.32	
33 01 30 79-0023 LF 21" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 47.....	444.59	
For Up To 75, Add	119.36	
For >75 To 150, Add	59.68	
For >500 To 1,000, Deduct	-1.76	
For >1,000 To 2,000, Deduct	-3.51	
For >2,000, Deduct	-7.03	
For DR 50 Pipe Liner, Deduct	-63.18	
For DR 55 Pipe Liner, Deduct	-105.29	
33 01 30 79-0024 LF 24" Diameter Form and Fold Polyvinyl Chloride (PVC) Pipeliner, DR 55.....	545.82	
For Up To 75, Add	142.38	
For >75 To 150, Add	71.19	
For >500 To 1,000, Deduct	-1.92	
For >1,000 To 2,000, Deduct	-3.83	
For >2,000, Deduct	-7.67	
For DR 60 Pipe Liner, Deduct	-78.04	

**33 01 30 81 Manhole Rehabilitation** (33 01 30)

33 01 30 81-0001 Restoration And Rehabilitation Of Manholes (33 01 30 81)  
 Note: Work is in confined spaces.

33 01 30 81-0002 Inspection And Ventilation System Set-up (33 01 30 81-0001)

33 01 30 81-0003	EA Inspect Manhole .....	182.04
33 01 30 81-0004	EA 36" to 60" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System .....	14,657.50
	Note: For internal inspection and repair of water mains.	
33 01 30 81-0005	EA >60" to 108" Diameter, Up To 2600', Installation And Maintenance Of Ventilation System .....	20,788.66
	Note: For internal inspection and repair of water mains	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 01 30 81-0006</b> <b>Manhole Seals</b> <small>(33 01 30 81-0001)</small>		
<b>33 01 30 81-0007</b> <b>Internal Manhole Chimney Seals</b> <small>(33 01 30 81-0006)</small>		
Note: Cretex.		
33 01 30 81-0008 EA 20" Internal Manhole Chimney Seal.....	596.13	
33 01 30 81-0009 EA 22" Internal Manhole Chimney Seal.....	628.36	
33 01 30 81-0010 EA 24" Internal Manhole Chimney Seal.....	644.47	
33 01 30 81-0011 EA 26" Internal Manhole Chimney Seal.....	741.14	
33 01 30 81-0012 EA 28" Internal Manhole Chimney Seal.....	837.81	
33 01 30 81-0013 EA 30" Internal Manhole Chimney Seal.....	934.48	
33 01 30 81-0014 EA 36" Internal Manhole Chimney Seal.....	1,127.82	
<b>33 01 30 81-0015</b> <b>External Manhole Encapsulation</b> <small>(33 01 30 81-0006)</small>		
Note: Wrapidseal.		
33 01 30 81-0016 EA 24" External Manhole Encapsulation .....	870.03	
33 01 30 81-0017 EA 30" External Manhole Encapsulation .....	918.37	
33 01 30 81-0018 EA 36" External Manhole Encapsulation .....	982.82	
33 01 30 81-0019 EA 42" External Manhole Encapsulation .....	1,063.37	
33 01 30 81-0020 EA 48" External Manhole Encapsulation .....	1,176.16	
33 01 30 81-0021 EA 54" External Manhole Encapsulation .....	1,305.04	
33 01 30 81-0022 EA 60" External Manhole Encapsulation .....	1,466.17	
<b>33 01 30 81-0023</b> <b>Manhole Crack Repair</b> <small>(33 01 30 81-0001)</small>		
Note: Includes removing loose materials and cleaning.		
33 01 30 81-0024 LF Up To 1/4" Wide, Epoxy Grout Injection, Manhole Crack Repair.....	54.24	
33 01 30 81-0025 LF >1/4" To 1/2" Wide, Epoxy Grout Injection, Manhole Crack Repair .....	73.08	
33 01 30 81-0026 LF Up To 1/4" Wide, Urethane Grout Injection, Manhole Crack Repair .....	51.19	
33 01 30 81-0027 LF >1/4" To 1/2" Wide, Urethane Grout Injection, Manhole Crack Repair .....	69.49	
<b>33 01 30 81-0028</b> <b>Manhole Patching</b> <small>(33 01 30 81-0001)</small>		
Note: Includes removing loose materials and cleaning.		
33 01 30 81-0029 SF Up To 1/4" Thick, Cementitious Grout, Manhole Patching.....	17.46	
33 01 30 81-0030 SF Up To 1/4" Thick, Epoxy Grout, Manhole Patching.....	41.46	
<b>33 01 30 81-0031</b> <b>Manhole Joint Restoration</b> <small>(33 01 30 81-0001)</small>		
Note: Includes drilling holes at joints, fill joints with grout.		
33 01 30 81-0032 EA 3' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,447.29	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	244.63	
33 01 30 81-0033 EA 3-1/2' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	2,856.87	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	272.90	
33 01 30 81-0034 EA 4' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	3,263.06	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	301.17	
33 01 30 81-0035 EA 5' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	3,868.48	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	315.30	
33 01 30 81-0036 EA 6' Diameter Joint Restoration, Grout Fill Per Each Manhole.....	4,472.22	
Note: Includes two (2) joints sections to be grouted and two (2) pipe connections.		
For Grouting Each Additional Manhole Joint Section, Add	329.44	
<b>33 01 30 81-0037</b> <b>Step Installation In Existing Manholes</b> <small>(33 01 30 81-0001)</small>		
Note: Including drilling in existing concrete manhole, step and grout. Demolition cost includes removal of old step and patching holes.		
33 01 30 81-0038 EA Drill And Grout 8" x 9" Cast Iron Manhole Steps.....	150.90	21.60
33 01 30 81-0039 EA Drill And Grout Galvanized Steel Manhole Step.....	117.01	21.60
33 01 30 81-0040 EA Bolt On Galvanized Steel Manhole Step.....	140.12	21.60
33 01 30 81-0041 EA Drill And Grout Aluminum Manhole Step.....	144.85	21.60
33 01 30 81-0042 EA Drill And Insert Polypropylene Manhole Step.....	68.28	17.29
<b>33 01 30 81-0043</b> <b>Manhole Penetration Sealing</b> <small>(33 01 30 81-0001)</small>		
Note: At new pipe connection to manhole.		
33 01 30 81-0044 EA 6" To 12" Opening, Seal New Pipe Connection To Existing Manhole.....	412.20	
33 01 30 81-0045 EA >12" To 22" Opening, Seal New Pipe Connection To Existing Manhole.....	640.72	
33 01 30 81-0046 EA >22" To 36" Opening, Seal New Pipe Connection To Existing Manhole.....	884.18	
<b>33 01 30 81-0047</b> <b>Invert Restoration</b> <small>(33 01 30 81-0001)</small>		
Note: Includes removal of existing defective material and installation of new material.		
<b>33 01 30 81-0048</b> <b>Concrete Invert Restoration</b> <small>(33 01 30 81-0047)</small>		
33 01 30 81-0049 EA 2' Diameter, Concrete Invert Restoration.....	392.22	
33 01 30 81-0050 EA 3' Diameter, Concrete Invert Restoration.....	437.72	
33 01 30 81-0051 EA 4' Diameter, Concrete Invert Restoration.....	483.23	
33 01 30 81-0052 EA 5' Diameter, Concrete Invert Restoration.....	528.74	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 81-0053 EA 6' Diameter, Concrete Invert Restoration.....	665.27	
33 01 30 81-0054 SF Square Or Rectangular, Concrete Invert Restoration .....	38.43	
<b>33 01 30 81-0055 Brick Invert Restoration (33 01 30 81-0047)</b>		
33 01 30 81-0056 EA 2' Diameter, Brick Invert Restoration .....	607.80	
33 01 30 81-0057 EA 3' Diameter, Brick Invert Restoration .....	653.31	
33 01 30 81-0058 EA 4' Diameter, Brick Invert Restoration .....	698.82	
33 01 30 81-0059 EA 5' Diameter, Brick Invert Restoration .....	744.33	
33 01 30 81-0060 EA 6' Diameter, Brick Invert Restoration .....	789.84	
33 01 30 81-0061 SF Square Or Rectangular, Brick Invert Restoration .....	52.94	
<b>33 01 30 81-0062 Repair In-Kind Of Drainage Structures (33 01 30 81)</b>		
Note: For brick, concrete or concrete block catch basins, inlets, manholes, and other drainage structures. Includes replacing bricks or concrete blocks, concrete repair, sealing and repairing joints, excavation, backfilling, pavement removal, restoration of pavement and all tasks to perform interior and/or exterior repair in-kind. Sizes are inside dimensions. For other sizes, use closest size.		
33 01 30 81-0063 VLF 2' Diameter, Repair In-Kind Drainage Structure.....	822.86	
33 01 30 81-0064 VLF 3' Diameter, Repair In-Kind Drainage Structure.....	1,234.30	
33 01 30 81-0065 VLF 4' Diameter, Repair In-Kind Drainage Structure.....	1,645.84	
33 01 30 81-0066 VLF 5' Diameter, Repair In-Kind Drainage Structure.....	2,057.16	
33 01 30 81-0067 VLF 6' Diameter, Repair In-Kind Drainage Structure.....	2,468.60	
33 01 30 81-0068 VLF 2' x 2', Repair In-Kind Drainage Structure.....	1,048.24	
33 01 30 81-0069 VLF 2' x 3', Repair In-Kind Drainage Structure.....	1,310.29	
33 01 30 81-0070 VLF 2' x 4', Repair In-Kind Drainage Structure.....	1,572.35	
33 01 30 81-0071 VLF 3' x 4', Repair In-Kind Drainage Structure.....	1,834.41	
33 01 30 81-0072 VLF 4' x 4', Repair In-Kind Drainage Structure.....	2,096.47	
33 01 30 81-0073 VLF 4' x 5', Repair In-Kind Drainage Structure.....	2,358.53	
33 01 30 81-0074 VLF 4' x 6', Repair In-Kind Drainage Structure.....	2,620.59	
33 01 30 81-0075 VLF 4' x 8', Repair In-Kind Drainage Structure.....	3,144.71	
33 01 30 81-0076 VLF >32 GSF, Repair In-Kind Drainage Structure .....	3,668.82	
<b>33 01 30 82 Epoxy Lining for Concrete Manholes (33 01 30)</b>		
<b>33 01 30 82-0001 Epoxy Manhole Restoration, Interior (33 01 30 82)</b>		
33 01 30 82-0002 VLF 60 Mil Epoxy Restoration Of 3' Diameter Manhole Interior .....	379.04	
<i>For 80 Mil Material, Add</i>	44.18	
<i>For 100 Mil Material, Add</i>	88.37	
<i>For 125 Mil Material, Add</i>	137.63	
<i>For 150 Mil Material, Add</i>	186.90	
<i>For 200 Mil Material, Add</i>	269.53	
<i>For 2 To 5 Manholes, Deduct</i>	-26.90	
<i>For 6 To 10 Manholes, Deduct</i>	-44.33	
<i>For &gt;10 Manholes, Deduct</i>	-88.66	
33 01 30 82-0003 VLF 60 Mil Epoxy Restoration Of 3-1/2' Diameter Manhole Interior .....	459.95	
<i>For 80 Mil Material, Add</i>	52.89	
<i>For 100 Mil Material, Add</i>	105.79	
<i>For 125 Mil Material, Add</i>	164.62	
<i>For 150 Mil Material, Add</i>	223.45	
<i>For 200 Mil Material, Add</i>	321.67	
<i>For 2 To 5 Manholes, Deduct</i>	-32.72	
<i>For 6 To 10 Manholes, Deduct</i>	-53.93	
<i>For &gt;10 Manholes, Deduct</i>	-107.87	
33 01 30 82-0004 VLF 60 Mil Epoxy Restoration Of 4' Diameter Manhole Interior .....	505.38	
<i>For 80 Mil Material, Add</i>	58.91	
<i>For 100 Mil Material, Add</i>	117.82	
<i>For 125 Mil Material, Add</i>	183.51	
<i>For 150 Mil Material, Add</i>	249.20	
<i>For 200 Mil Material, Add</i>	359.37	
<i>For 2 To 5 Manholes, Deduct</i>	-35.87	
<i>For 6 To 10 Manholes, Deduct</i>	-59.11	
<i>For &gt;10 Manholes, Deduct</i>	-118.21	
33 01 30 82-0005 VLF 60 Mil Epoxy Restoration Of 5' Diameter Manhole Interior .....	631.79	
<i>For 80 Mil Material, Add</i>	73.66	
<i>For 100 Mil Material, Add</i>	147.32	
<i>For 125 Mil Material, Add</i>	229.45	
<i>For 150 Mil Material, Add</i>	311.59	
<i>For 200 Mil Material, Add</i>	449.35	
<i>For 2 To 5 Manholes, Deduct</i>	-44.84	
<i>For 6 To 10 Manholes, Deduct</i>	-73.89	
<i>For &gt;10 Manholes, Deduct</i>	-147.78	
33 01 30 82-0006 VLF 60 Mil Epoxy Restoration Of 6' Diameter Manhole Interior .....	758.13	
<i>For 80 Mil Material, Add</i>	88.39	
<i>For 100 Mil Material, Add</i>	176.77	
<i>For 125 Mil Material, Add</i>	275.33	
<i>For 150 Mil Material, Add</i>	373.89	
<i>For 200 Mil Material, Add</i>	539.20	
<i>For 2 To 5 Manholes, Deduct</i>	-53.81	
<i>For 6 To 10 Manholes, Deduct</i>	-88.66	
<i>For &gt;10 Manholes, Deduct</i>	-177.33	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**33 01 30 83 Lining for Concrete Manholes (33 01 30)**

33 01 30 83-0001	Manhole Lining (33 01 30 83) Note: Includes power washing and cleaning of manhole interiors.		
33 01 30 83-0002	Cementitious Manhole Restoration, Interior (33 01 30 83-0001)		
33 01 30 83-0003	VLF 1/2" Cementitious Restoration On 3' Diameter Manhole Interior.....	170.54	
	For Each Additional 1/2" Thick Material, Add	46.05	
	For 2 To 5 Manholes, Deduct	-11.88	
	For 6 To 10 Manholes, Deduct	-19.51	
	For >10 Manholes, Deduct	-39.01	
33 01 30 83-0004	VLF 1/2" Cementitious Restoration On 3-1/2' Diameter Manhole Interior .....	197.78	
	For Each Additional 1/2" Thick Material, Add	53.61	
	For 2 To 5 Manholes, Deduct	-13.78	
	For 6 To 10 Manholes, Deduct	-22.61	
	For >10 Manholes, Deduct	-45.22	
33 01 30 83-0005	VLF 1/2" Cementitious Restoration On 4' Diameter Manhole Interior.....	225.02	
	For Each Additional 1/2" Thick Material, Add	61.17	
	For 2 To 5 Manholes, Deduct	-15.67	
	For 6 To 10 Manholes, Deduct	-25.71	
	For >10 Manholes, Deduct	-51.42	
33 01 30 83-0006	VLF 1/2" Cementitious Restoration On 5' Diameter Manhole Interior.....	265.68	
	For Each Additional 1/2" Thick Material, Add	75.14	
	For 2 To 5 Manholes, Deduct	-18.41	
	For 6 To 10 Manholes, Deduct	-30.17	
	For >10 Manholes, Deduct	-60.35	
33 01 30 83-0007	VLF 1/2" Cementitious Restoration On 6' Diameter Manhole Interior.....	291.60	
	For Each Additional 1/2" Thick Material, Add	87.16	
	For 2 To 5 Manholes, Deduct	-20.06	
	For 6 To 10 Manholes, Deduct	-32.83	
	For >10 Manholes, Deduct	-65.65	

**33 01 30 83-0008 Polyurethane Manhole Restoration, Interior (33 01 30 83-0001)**

33 01 30 83-0009	VLF 60 Mil Polyurethane Restoration Of 3' Diameter Manhole Interior .....	339.34	
	For 80 Mil Material, Add	30.95	
	For 100 Mil Material, Add	61.90	
	For 125 Mil Material, Add	94.63	
	For 150 Mil Material, Add	127.35	
	For 200 Mil Material, Add	176.90	
	For 2 To 5 Manholes, Deduct	-24.92	
	For 6 To 10 Manholes, Deduct	-41.35	
	For >10 Manholes, Deduct	-82.71	
33 01 30 83-0010	VLF 60 Mil Polyurethane Restoration Of 3-1/2' Diameter Manhole Interior .....	413.57	
	For 80 Mil Material, Add	37.43	
	For 100 Mil Material, Add	74.87	
	For 125 Mil Material, Add	114.37	
	For 150 Mil Material, Add	153.88	
	For 200 Mil Material, Add	213.45	
	For 2 To 5 Manholes, Deduct	-30.40	
	For 6 To 10 Manholes, Deduct	-50.45	
	For >10 Manholes, Deduct	-100.91	
33 01 30 83-0011	VLF 60 Mil Polyurethane Restoration Of 4' Diameter Manhole Interior .....	452.45	
	For 80 Mil Material, Add	41.27	
	For 100 Mil Material, Add	82.54	
	For 125 Mil Material, Add	126.17	
	For 150 Mil Material, Add	169.80	
	For 200 Mil Material, Add	235.87	
	For 2 To 5 Manholes, Deduct	-33.22	
	For 6 To 10 Manholes, Deduct	-55.14	
	For >10 Manholes, Deduct	-110.27	
33 01 30 83-0012	VLF 60 Mil Polyurethane Restoration Of 5' Diameter Manhole Interior .....	565.57	
	For 80 Mil Material, Add	51.59	
	For 100 Mil Material, Add	103.17	
	For 125 Mil Material, Add	157.72	
	For 150 Mil Material, Add	212.26	
	For 200 Mil Material, Add	294.84	
	For 2 To 5 Manholes, Deduct	-41.53	
	For 6 To 10 Manholes, Deduct	-68.92	
	For >10 Manholes, Deduct	-137.84	
33 01 30 83-0013	VLF 60 Mil Polyurethane Restoration Of 6' Diameter Manhole Interior .....	678.68	
	For 80 Mil Material, Add	61.90	
	For 100 Mil Material, Add	123.81	
	For 125 Mil Material, Add	189.26	
	For 150 Mil Material, Add	254.71	
	For 200 Mil Material, Add	353.81	
	For 2 To 5 Manholes, Deduct	-49.84	
	For 6 To 10 Manholes, Deduct	-82.71	
	For >10 Manholes, Deduct	-165.41	

**33 01 30 83-0014 Multiplexx™ PVCP Cured-In-Place (CIP) Lining Manhole Restoration, Interior (33 01 30 83-0001)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 30 83-0015 VLF 3' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	572.08	
For 2 To 5 Manholes, Deduct	-33.35	
For 6 To 10 Manholes, Deduct	-52.39	
For >10 Manholes, Deduct	-104.79	
33 01 30 83-0016 VLF 3-1/2' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	700.57	
For 2 To 5 Manholes, Deduct	-40.83	
For 6 To 10 Manholes, Deduct	-64.14	
For >10 Manholes, Deduct	-128.28	
33 01 30 83-0017 VLF 4' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	824.92	
For 2 To 5 Manholes, Deduct	-47.57	
For 6 To 10 Manholes, Deduct	-74.52	
For >10 Manholes, Deduct	-149.04	
33 01 30 83-0018 VLF 5' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	1,034.47	
For 2 To 5 Manholes, Deduct	-59.63	
For 6 To 10 Manholes, Deduct	-93.40	
For >10 Manholes, Deduct	-186.79	
33 01 30 83-0019 VLF 6' Diameter, Multiplexx™ PVCP Cured-In-Place (CIP) Manhole Liner For Existing Manhole.....	1,244.02	
For 2 To 5 Manholes, Deduct	-71.69	
For 6 To 10 Manholes, Deduct	-112.27	
For >10 Manholes, Deduct	-224.55	
 <b>33 01 30 86 Manhole Rim Adjustment (33 01 30)</b>		
33 01 30 86-0001 Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86)		
33 01 30 86-0002 Up To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0003 EA Up To 2" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	364.37	
33 01 30 86-0004 EA >2" To 3" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	409.79	
33 01 30 86-0005 EA >3" To 4" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	451.08	
33 01 30 86-0006 EA >4" To 5" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	497.85	
33 01 30 86-0007 EA >5" To 6" Rise, Up To 26" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	535.91	
33 01 30 86-0008 Up To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser (33 01 30 86-0001)		
33 01 30 86-0009 EA Up To 2" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	428.08	
33 01 30 86-0010 EA >2 To 3" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser .....	466.60	
33 01 30 86-0011 EA >3" To 4" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	515.01	
33 01 30 86-0012 EA >4" To 5" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	561.77	
33 01 30 86-0013 EA >5" To 6" Rise, >26" To 32-1/2" Diameter, Adjustable Or Solid, Cast Iron Or Steel, Manhole Cover Riser.....	606.90	
33 01 30 86-0014 Up To 6" Rise, >32-1/2" To 36" Diameter, Adjustable Or Solid Manhole Risers (33 01 30 86-0001)		
33 01 30 86-0015 EA Up To 4" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers .....	491.47	
33 01 30 86-0016 EA >4" To 5" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	519.39	
33 01 30 86-0017 EA >5" To 6" Rise, >32-1/2" To 36" Diameter, Solid Manhole Risers.....	549.39	
33 01 30 86-0018 >6" To 12" Rise, >32-1/2" To 36" Diameter, Solid, Cast Iron, Manhole Cover Risers (33 01 30 86-0001)		
33 01 30 86-0019 EA >6" To 6-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser.....	598.02	
33 01 30 86-0020 EA 7" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....	650.37	
33 01 30 86-0021 EA 7-1/2" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....	703.56	
33 01 30 86-0022 EA 8" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....	746.00	
33 01 30 86-0023 EA 9" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....	810.62	
33 01 30 86-0024 EA 10" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....	869.41	
33 01 30 86-0025 EA 11" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....	927.00	
33 01 30 86-0026 EA 12" Rise, >32-1/2" To 36", Solid, Cast Iron, Manhole Cover Riser .....	985.82	
33 01 30 86-0027 >12" Rise, Solid Manhole Risers (33 01 30 86)		
33 01 30 86-0028 Precast Concrete Manhole Riser (33 01 30 86-0027)		
33 01 30 86-0029 VLF Up To 26" Diameter Precast Concrete Manhole Riser.....	134.22	
33 01 30 86-0030 VLF >26" To 36" Diameter Precast Concrete Manhole Riser.....	159.68	
33 01 30 86-0031 VLF >36" To 48" Diameter Precast Concrete Manhole Riser .....	178.08	
33 01 30 86-0032 VLF >48" To 60" Diameter Precast Concrete Manhole Riser.....	363.47	
33 01 30 86-0033 VLF >60" To 72" Diameter Precast Concrete Manhole Riser.....	532.37	
 <b>33 01 30 89 By-Pass Piping and Pumping of Sewer Utilities (33 01 30)</b>		
33 01 30 89-0001 Set-Up By-Pass Pumping Unit (33 01 30 89)		
Note: Excludes pump and hose rental. See CSI section 01 22 23 00-1054 for pump rental, 01 22 23 00-1087 for suction hose, 01 22 23 00-1106 for discharge hose.		
33 01 30 89-0002 EA Set-up By-Pass Pumping Unit .....	2,126.44	
33 01 30 89-0003 EA Re-Set Up/Move By-Pass Pumping Unit .....	1,063.22	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 30 Operation and Maintenance of Sewer Utilities**MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

33 01 30 89-0004	<b>By-Pass Pumping</b> <small>(33 01 30 89)</small>		
	Note: Excludes pump rental. See CSI section 01 22 23 00-1054 for pump rental.		
33 01 30 89-0005	DAY Maintain And Operate By-Pass Pumping Unit .....		531.61
33 01 30 89-0006	WK Maintain And Operate By-Pass Pumping Unit .....		2,658.05
33 01 30 89-0007	MO Maintain And Operate By-Pass Pumping Unit .....		11,163.79
33 01 30 89-0008	<b>Temporary Bypass And Service Lines</b> <small>(33 01 30 89)</small>		
	Note: Laid on ground, includes fittings and connections. Remove after use.		
33 01 30 89-0009	<b>Temporary Water Service Lines</b> <small>(33 01 30 89-0008)</small>		
	Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0010	LF 1/2" Temporary Service Hose With Fittings .....		3.89
	Note: Includes removal after use.		
33 01 30 89-0011	LF 3/4" Temporary Service Hose With Fittings .....		4.93
	Note: Includes removal after use.		
33 01 30 89-0012	LF 1" Temporary Service Hose With Fittings .....		5.75
	Note: Includes removal after use.		
33 01 30 89-0013	LF 1-1/2" Temporary Service Hose With Fittings .....		6.90
	Note: Includes removal after use.		
33 01 30 89-0014	LF 2" Temporary Service Hose With Fittings .....		8.49
	Note: Includes removal after use.		
33 01 30 89-0015	EA Temporary Service Valve Assembly At Fire Hydrant .....		422.94
	Note: Includes removal after use.		
33 01 30 89-0016	<b>Temporary Bypass Water Main Lines</b> <small>(33 01 30 89-0008)</small>		
	Note: Laid on ground, includes fittings, connections and chlorination prior to each use. Remove after use.		
33 01 30 89-0017	LF 2" Temporary Bypass Pipe With Fittings .....		8.58
	Note: Includes removal after use.		
	For >500 To 1,000, Deduct		-0.59
	For >1,000 To 5,000, Deduct		-1.17
	For >5,000, Deduct		-1.96
33 01 30 89-0018	LF 4" Temporary Bypass Pipe With Fittings .....		10.88
	Note: Includes removal after use.		
	For >500 To 1,000, Deduct		-0.76
	For >1,000 To 5,000, Deduct		-1.51
	For >5,000, Deduct		-2.52
33 01 30 89-0019	LF 6" Temporary Bypass Pipe With Fittings .....		13.40
	Note: Includes removal after use.		
	For >500 To 1,000, Deduct		-0.88
	For >1,000 To 5,000, Deduct		-1.76
	For >5,000, Deduct		-2.94
33 01 30 89-0020	LF 8" Temporary Bypass Pipe With Fittings .....		16.93
	Note: Includes removal after use.		
	For >500 To 1,000, Deduct		-1.06
	For >1,000 To 5,000, Deduct		-2.12
	For >5,000, Deduct		-3.53
33 01 30 89-0021	<b>Piping Protection For Temporary Water Line</b> <small>(33 01 30 89-0008)</small>		
33 01 30 89-0022	LF Cold Mix For Temporary Pipe .....		3.21
	Note: Install along each side of pipe edge. Unit of measure "LF" is for length of pipe and includes both sides of pipe.		
33 01 30 89-0023	<b>Drill Meter Cover For Temporary Water Line</b> <small>(33 01 30 89-0008)</small>		
33 01 30 89-0024	EA Drill Meter Cover For Temporary Bypass Pipe .....		16.55
33 01 30 89-0025	<b>Temporary By-Pass Plug</b> <small>(33 01 30 89)</small>		
33 01 30 89-0026	EA 8" To 16" Temporary By-Pass Plug .....		939.00
33 01 30 89-0027	EA 12" To 24" Temporary By-Pass Plug .....		1,464.06
33 01 30 89-0028	EA 15" To 30" Temporary By-Pass Plug .....		2,347.42
33 01 30 89-0029	EA 20" To 40" Temporary By-Pass Plug .....		2,886.93
33 01 30 89-0030	EA 24" To 28" Temporary By-Pass Plug .....		3,835.06

**33 01 34 Operation and Maintenance of Onsite Wastewater Disposal Systems** (33 01)**33 01 34 13 Septic Tank Solids Removal** (33 01 34)**33 01 34 13-0001 Pump Out Septic Tanks** (33 01 34 13)

33 01 34 13-0002 GAL Pump Out Septic Tank And Dispose .....0.70

**33 01 70 Operation and Maintenance of Electrical Utilities** (33 01)**33 01 70 51 Electrical Utility Visual Inspection** (33 01 70)33 01 70 51-0001 Video Camera Inspection Of Gas Piping and Electrical Duct (33 01 70 51)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 01 70 51-0002</b> Video Camera Set-up <small>(33 01 70 51-0001)</small>		
33 01 70 51-0003 EA Up To 12" Diameter, Initial Set Up For Video Inspection, Gas Pipe Or Electrical Duct.....	289.52	
33 01 70 51-0004 EA >12" To 48" Diameter, Initial Set Up For Video Inspection, Gas Pipe.....	325.71	
33 01 70 51-0005 EA Up To 12" Diameter, Re-Set Up/Move For Video Inspection, Gas Pipe Or Electrical Duct.....	72.38	
33 01 70 51-0006 EA >12" To 48" Diameter, Re-Set Up/Move For Video Inspection, Gas Pipe.....	108.57	
<b>33 01 70 51-0007</b> Video Camera Inspection Of Gas Pipe Or Electrical Duct <small>(33 01 70 51-0001)</small>		
33 01 70 51-0008 LF Up To 12" Diameter, Video Inspection, Gas Pipe Or Electrical Duct .....	1.12	
<i>For &gt;1,000 To 5,000, Deduct</i>	-0.06	
<i>For &gt;5,000, Deduct</i>	-0.11	
33 01 70 51-0009 LF >12" To 48" Diameter, Video Inspection, Gas Pipe .....	1.73	
<i>For &gt;1,000 To 5,000, Deduct</i>	-0.09	
<i>For &gt;5,000, Deduct</i>	-0.17	
<b>33 01 70 72</b> Cured-in-Place Conduit Lining <small>(33 01 70)</small>		
<b>33 01 70 72-0001</b> Lining Conduit With Cured In-Place (CIP) Liner <small>(33 01 70 72)</small>		
<small>Note: Cured in-place thermosetting resin pipe and resin impregnated tube. Excludes video camera inspection and cleaning.</small>		
<b>33 01 70 72-0002</b> 2mm Thick Cured In-Place Conduit Lining <small>(33 01 70 72-0001)</small>		
33 01 70 72-0003 LF 1-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	7.66	
<i>For Up To &gt;10, Add</i>	15.08	
<i>For &gt;10 To 25, Add</i>	12.04	
<i>For &gt;25 To 50, Add</i>	7.38	
<i>For &gt;50 To 100, Add</i>	3.69	
<i>For &gt;500 To 1,000, Deduct</i>	-0.50	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.80	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.50	
<i>For &gt;5,000, Deduct</i>	-2.43	
33 01 70 72-0004 LF 2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	9.33	
<i>For Up To &gt;10, Add</i>	17.32	
<i>For &gt;10 To 25, Add</i>	13.72	
<i>For &gt;25 To 50, Add</i>	8.44	
<i>For &gt;50 To 100, Add</i>	4.22	
<i>For &gt;500 To 1,000, Deduct</i>	-0.59	
<i>For &gt;1,000 To 2,000, Deduct</i>	-0.95	
<i>For &gt;2,000 To 5,000, Deduct</i>	-1.78	
<i>For &gt;5,000, Deduct</i>	-2.88	
33 01 70 72-0005 LF 2-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	11.70	
<i>For Up To &gt;10, Add</i>	21.65	
<i>For &gt;10 To 25, Add</i>	17.15	
<i>For &gt;25 To 50, Add</i>	10.56	
<i>For &gt;50 To 100, Add</i>	5.28	
<i>For &gt;500 To 1,000, Deduct</i>	-0.74	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.19	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.23	
<i>For &gt;5,000, Deduct</i>	-3.60	
33 01 70 72-0006 LF 3" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	13.79	
<i>For Up To &gt;10, Add</i>	25.15	
<i>For &gt;10 To 25, Add</i>	19.87	
<i>For &gt;25 To 50, Add</i>	12.25	
<i>For &gt;50 To 100, Add</i>	6.12	
<i>For &gt;500 To 1,000, Deduct</i>	-0.87	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.40	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.60	
<i>For &gt;5,000, Deduct</i>	-4.22	
33 01 70 72-0007 LF 3-1/2" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	15.47	
<i>For Up To &gt;10, Add</i>	27.41	
<i>For &gt;10 To 25, Add</i>	21.58	
<i>For &gt;25 To 50, Add</i>	13.33	
<i>For &gt;50 To 100, Add</i>	6.66	
<i>For &gt;500 To 1,000, Deduct</i>	-0.97	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.55	
<i>For &gt;2,000 To 5,000, Deduct</i>	-2.88	
<i>For &gt;5,000, Deduct</i>	-4.67	
33 01 70 72-0008 LF 4" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	17.42	
<i>For Up To &gt;10, Add</i>	30.49	
<i>For &gt;10 To 25, Add</i>	23.95	
<i>For &gt;25 To 50, Add</i>	14.81	
<i>For &gt;50 To 100, Add</i>	7.40	
<i>For &gt;500 To 1,000, Deduct</i>	-1.09	
<i>For &gt;1,000 To 2,000, Deduct</i>	-1.74	
<i>For &gt;2,000 To 5,000, Deduct</i>	-3.22	
<i>For &gt;5,000, Deduct</i>	-5.23	
33 01 70 72-0009 LF 5" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining.....	20.49	
<i>For Up To &gt;10, Add</i>	34.15	
<i>For &gt;10 To 25, Add</i>	26.63	
<i>For &gt;25 To 50, Add</i>	16.53	
<i>For &gt;50 To 100, Add</i>	8.26	
<i>For &gt;500 To 1,000, Deduct</i>	-1.26	
<i>For &gt;1,000 To 2,000, Deduct</i>	-2.01	
<i>For &gt;2,000 To 5,000, Deduct</i>	-3.70	
<i>For &gt;5,000, Deduct</i>	-6.01	

**33 Utilities****33 01 Operation and Maintenance of Utilities****33 01 70 Operation and Maintenance of Electrical Utilities**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 01 70 72-0010 LF 6" Conduit Lined With 2mm Thick Cured In-Place (CIP) Lining .....	23.55	
For Up To >10, Add	37.78	
For >10 To 25, Add	29.29	
For >25 To 50, Add	18.23	
For >50 To 100, Add	9.12	
For >500 To 1,000, Deduct	-1.44	
For >1,000 To 2,000, Deduct	-2.29	
For >2,000 To 5,000, Deduct	-4.18	
For >5,000, Deduct	-6.79	
<b>33 01 70 72-0011 3mm Thick Cured In-Place Conduit Lining <small>(33 01 70 72-0001)</small> .....</b>	<b>9.38</b>	
33 01 70 72-0012 LF 1-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....	9.38	
For Up To >10, Add	16.64	
For >10 To 25, Add	13.10	
For >25 To 50, Add	8.09	
For >50 To 100, Add	4.05	
For >500 To 1,000, Deduct	-0.59	
For >1,000 To 2,000, Deduct	-0.94	
For >2,000 To 5,000, Deduct	-1.75	
For >5,000, Deduct	-2.83	
33 01 70 72-0013 LF 2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....	12.17	
For Up To >10, Add	20.84	
For >10 To 25, Add	16.32	
For >25 To 50, Add	10.10	
For >50 To 100, Add	5.05	
For >500 To 1,000, Deduct	-0.76	
For >1,000 To 2,000, Deduct	-1.21	
For >2,000 To 5,000, Deduct	-2.23	
For >5,000, Deduct	-3.61	
33 01 70 72-0014 LF 2-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....	14.96	
For Up To >10, Add	25.06	
For >10 To 25, Add	19.56	
For >25 To 50, Add	12.13	
For >50 To 100, Add	6.07	
For >500 To 1,000, Deduct	-0.92	
For >1,000 To 2,000, Deduct	-1.47	
For >2,000 To 5,000, Deduct	-2.71	
For >5,000, Deduct	-4.40	
33 01 70 72-0015 LF 3" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....	17.47	
For Up To >10, Add	28.41	
For >10 To 25, Add	22.08	
For >25 To 50, Add	13.73	
For >50 To 100, Add	6.86	
For >500 To 1,000, Deduct	-1.07	
For >1,000 To 2,000, Deduct	-1.70	
For >2,000 To 5,000, Deduct	-3.12	
For >5,000, Deduct	-5.07	
33 01 70 72-0016 LF 3-1/2" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....	19.83	
For Up To >10, Add	31.34	
For >10 To 25, Add	24.24	
For >25 To 50, Add	15.11	
For >50 To 100, Add	7.55	
For >500 To 1,000, Deduct	-1.21	
For >1,000 To 2,000, Deduct	-1.92	
For >2,000 To 5,000, Deduct	-3.49	
For >5,000, Deduct	-5.68	
33 01 70 72-0017 LF 4" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....	22.35	
For Up To >10, Add	34.73	
For >10 To 25, Add	26.78	
For >25 To 50, Add	16.72	
For >50 To 100, Add	8.36	
For >500 To 1,000, Deduct	-1.35	
For >1,000 To 2,000, Deduct	-2.15	
For >2,000 To 5,000, Deduct	-3.91	
For >5,000, Deduct	-6.35	
33 01 70 72-0018 LF 5" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....	27.22	
For Up To >10, Add	41.01	
For >10 To 25, Add	31.47	
For >25 To 50, Add	19.69	
For >50 To 100, Add	9.85	
For >500 To 1,000, Deduct	-1.64	
For >1,000 To 2,000, Deduct	-2.59	
For >2,000 To 5,000, Deduct	-4.69	
For >5,000, Deduct	-7.64	
33 01 70 72-0019 LF 6" Conduit Lined With 3mm Thick Cured In-Place (CIP) Lining .....	31.67	
For Up To >10, Add	46.04	
For >10 To 25, Add	35.10	
For >25 To 50, Add	22.04	
For >50 To 100, Add	11.02	
For >500 To 1,000, Deduct	-1.89	
For >1,000 To 2,000, Deduct	-2.98	
For >2,000 To 5,000, Deduct	-5.37	
For >5,000, Deduct	-8.75	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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### 33 05 Common Work Results for Utilities <sup>(33)</sup>

#### 33 05 07 Trenchless Installation of Utility Piping <sup>(33 05)</sup>

##### 33 05 07 13 Utility Directional Drilling <sup>(33 05 07)</sup>

##### 33 05 07 13-0001 Horizontal Augering <sup>(33 05 07 13)</sup>

Note: Excludes starting or receiving pits, dewatering, cost of casing pipe or spoils removal. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0002	LF	Up To 2" Diameter Horizontal Hand Augering.....	25.07
33 05 07 13-0003	LF	3" Diameter Horizontal Hand Augering.....	30.25
33 05 07 13-0004	LF	4" Diameter Horizontal Hand Augering.....	41.49
33 05 07 13-0005	LF	6" Diameter Horizontal Hand Augering.....	53.60
33 05 07 13-0006	LF	8" Diameter Horizontal Augering.....	98.29
33 05 07 13-0007	LF	10" Diameter Horizontal Augering.....	143.39
33 05 07 13-0008	LF	12" Diameter Horizontal Augering.....	172.29
33 05 07 13-0009	LF	16" Diameter Horizontal Augering.....	205.83
33 05 07 13-0010	LF	20" Diameter Horizontal Augering.....	356.16
33 05 07 13-0011	LF	24" Diameter Horizontal Augering.....	448.42
33 05 07 13-0012	LF	30" Diameter Horizontal Augering.....	553.11
33 05 07 13-0013	LF	36" Diameter Horizontal Augering.....	631.94
33 05 07 13-0014	LF	42" Diameter Horizontal Augering.....	827.60
33 05 07 13-0015	LF	48" Diameter Horizontal Augering.....	891.75
33 05 07 13-0016	LF	54" Diameter Horizontal Augering.....	969.82
33 05 07 13-0017	LF	60" Diameter Horizontal Augering.....	1,016.75
33 05 07 13-0018	EA	8" To 20" Horizontal Augering Minimum Set-up Charge.....	4,162.83
		Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
33 05 07 13-0019	EA	>20" To 36" Horizontal Augering Minimum Set-up Charge.....	5,686.11
		Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
33 05 07 13-0020	EA	>36" Horizontal Augering Minimum Set-up Charge.....	8,448.54
		Note: For projects where the total horizontal augering charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	

##### 33 05 07 13-0021 Horizontal Directional Boring <sup>(33 05 07 13)</sup>

Note: Excludes receiving pits or dewatering or cost of casing pipe. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits, 33 05 07 24-0001 for casing pipe.

33 05 07 13-0022	LF	Up To 1-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	13.61
		<i>For Horizontal Boring Through Rock, Add</i>	9.53
33 05 07 13-0023	LF	2" Diameter Directional Boring For Horizontal Pipe, Underground.....	20.43
		<i>For Horizontal Boring Through Rock, Add</i>	14.30
33 05 07 13-0024	LF	2-1/2" Diameter Directional Boring For Horizontal Pipe, Underground.....	28.37
		<i>For Horizontal Boring Through Rock, Add</i>	19.86
33 05 07 13-0025	LF	3" Diameter Directional Boring For Horizontal Pipe, Underground.....	35.17
		<i>For Horizontal Boring Through Rock, Add</i>	24.62
33 05 07 13-0026	LF	4" Diameter Directional Boring For Horizontal Pipe, Underground.....	41.99
		<i>For Horizontal Boring Through Rock, Add</i>	29.39
33 05 07 13-0027	LF	5" Diameter Directional Boring For Horizontal Pipe, Underground.....	48.79
		<i>For Horizontal Boring Through Rock, Add</i>	34.15
33 05 07 13-0028	LF	6" Diameter Directional Boring For Horizontal Pipe, Underground.....	56.73
		<i>For Horizontal Boring Through Rock, Add</i>	39.71
33 05 07 13-0029	LF	8" Diameter Directional Boring For Horizontal Pipe, Underground.....	69.38
		<i>For Horizontal Boring Through Rock, Add</i>	48.57
33 05 07 13-0030	LF	10" Diameter Directional Boring For Horizontal Pipe, Underground.....	75.17
		<i>For Horizontal Boring Through Rock, Add</i>	52.62
33 05 07 13-0031	LF	12" Diameter Directional Boring For Horizontal Pipe, Underground.....	80.95
		<i>For Horizontal Boring Through Rock, Add</i>	56.67
33 05 07 13-0032	LF	18" Diameter Directional Boring For Horizontal Pipe, Underground.....	167.67
		<i>For Horizontal Boring Through Rock, Add</i>	117.37
33 05 07 13-0033	LF	24" Diameter Directional Boring For Horizontal Pipe, Underground.....	264.92
		<i>For Horizontal Boring Through Rock, Add</i>	185.44
33 05 07 13-0034	LF	30" Diameter Directional Boring For Horizontal Pipe, Underground.....	403.84
		<i>For Horizontal Boring Through Rock, Add</i>	282.69
33 05 07 13-0035	LF	36" Diameter Directional Boring For Horizontal Pipe, Underground.....	646.15
		<i>For Horizontal Boring Through Rock, Add</i>	452.31
33 05 07 13-0036	EA	Up To 6" Horizontal Directional Boring Minimum Set-up Charge.....	3,630.90
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
33 05 07 13-0037	EA	>6" To 18" Horizontal Directional Boring Minimum Set-up Charge.....	4,162.83
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
33 05 07 13-0038	EA	>18" To 36" Horizontal Directional Boring Minimum Set-up Charge.....	5,686.11
		Note: For projects where the total horizontal directional boring charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	

##### 33 05 07 23 Utility Boring and Jacking <sup>(33 05 07)</sup>

##### 33 05 07 23-0001 Horizontal Jacking <sup>(33 05 07 23)</sup>

Note: Includes cost of steel casing pipe, excludes dewatering and excavation for jacking pit or receiving pit. See CSI section 31 23 16 36-0000 for excavation and backfill of starting or receiving pits.

**33 Utilities****33 05 Common Work Results for Utilities****33 05 07 Trenchless Installation of Utility Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 23-0002 LF Up To 2" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	91.10 31.76	
33 05 07 23-0003 LF 3" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	108.80 38.33	
33 05 07 23-0004 LF 4" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	145.77 52.57	
33 05 07 23-0005 LF 6" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	188.45 67.90	
33 05 07 23-0006 LF 8" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	253.52 93.08	
33 05 07 23-0007 LF 10" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	372.75 135.80	
33 05 07 23-0008 LF 12" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	449.28 163.18	
33 05 07 23-0009 LF 16" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	536.23 194.95	
33 05 07 23-0010 LF 20" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	778.58 338.41	
33 05 07 23-0011 LF 24" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	1,581.79 379.79	
33 05 07 23-0012 LF 30" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	1,792.31 468.95	
33 05 07 23-0013 LF 36" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	2,013.10 536.21	
33 05 07 23-0014 LF 42" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	2,157.43 579.04	
33 05 07 23-0015 LF 48" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	2,346.21 623.90	
33 05 07 23-0016 LF 54" Diameter Horizontal Jacking..... <i>For Horizontal Jacking Through Rock, Add</i>	2,486.91 679.01	
33 05 07 23-0017 EA Up To 6" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	3,630.90	
33 05 07 23-0018 EA >6" To 20" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	4,162.83	
33 05 07 23-0019 EA >20" To 36" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	5,686.11	
33 05 07 23-0020 EA >36" Horizontal Jacking Minimum Set-up Charge..... Note: For projects where the total horizontal jacking charge is less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	8,448.54	

**33 05 07 24 Casing Piping for Utility Jacking (33 05 07)**

33 05 07 24-0001 Casing Pipe (33 05 07 24) Note: Casing pipe is pulled back from hook on boring auger through slurry. Costs are installed costs. Excludes boring.		
33 05 07 24-0002 Steel Pipe (33 05 07 24-0001)		
33 05 07 24-0003 LF 1-1/2" Steel Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	38.17	
33 05 07 24-0004 LF 2" Steel Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	40.32	
33 05 07 24-0005 LF 2-1/2" Steel Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	43.76	
33 05 07 24-0006 LF 3" Steel Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	47.27	
33 05 07 24-0007 LF 4" Steel Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	60.85	
33 05 07 24-0008 LF 5" Steel Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	69.33	
33 05 07 24-0009 LF 6" Steel Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	77.80	
33 05 07 24-0010 Polyethylene Pipe (33 05 07 24-0001)		
33 05 07 24-0011 LF 3/4" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	9.42	
33 05 07 24-0012 LF 1" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	10.23	
33 05 07 24-0013 LF 1-1/4" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	11.05	
33 05 07 24-0014 LF 1-1/2" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	11.84	
33 05 07 24-0015 LF 2" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	12.66	
33 05 07 24-0016 LF 2-1/2" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	13.64	
33 05 07 24-0017 LF 3" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	14.67	
33 05 07 24-0018 LF 4" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	18.34	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 07 24-0019 LF 5" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	20.58	
33 05 07 24-0020 LF 6" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	22.84	
33 05 07 24-0021 LF 8" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	30.74	
33 05 07 24-0022 LF 10" Polyethylene Pipe Pull In Place By Boring Machine..... Note: Includes pipe welding.	43.19	
<b>33 05 09 Piping Specials for Utilities</b> <small>(33 05)</small>		
<b>33 05 09 23 Adapters for Utility Piping</b> <small>(33 05 09)</small>		
See CSI section 33 14 13 53-0222 for ductile iron body adapters, 33 14 13 53-0229 for steel body adapters.		
<b>33 05 09 33 Thrust Restraint for Utility Piping</b> <small>(33 05 09)</small>		
See CSI section 33 14 13 13-0545 for mechanical restraints, 33 14 13 13-0580 for flanged restraints, 33 14 13 13-1152 for slip-on restraints, 33 14 13 13-1168 for slip-on restraint harnesses.		
<b>33 05 16 Cast-Iron Utility Pipe</b> <small>(33 05)</small>		
See CSI section 22 13 16 00-0019 for cast iron utility piping.		
<b>33 05 17 Copper Utility Pipe and Tubing</b> <small>(33 05)</small>		
See CSI section 33 14 13 39-0000 for copper utility piping.		
<b>33 05 19 Ductile-Iron Utility Pipe</b> <small>(33 05)</small>		
See CSI section 33 14 13 13-0000 for ductile iron utility piping.		
<b>33 05 24 Steel Utility Pipe</b> <small>(33 05)</small>		
<b>33 05 24 23 Steel Pipe for Water Service</b> <small>(33 05 24)</small>		
See CSI section 33 14 13 26-0000 for galvanized steel utility piping, 33 14 13 36-0000 for steel utility piping.		
<b>33 05 27 Corrugated Metal Utility Pipe</b> <small>(33 05)</small>		
<b>33 05 27 13 Corrugated Metal Culvert Pipe</b> <small>(33 05 27)</small>		
See CSI section 33 42 11 00-0455 for corrugated metal culvert pipe.		
<b>33 05 27 23 Corrugated Metal Slotted Pipe</b> <small>(33 05 27)</small>		
See CSI section 33 41 16 13-0085 for corrugated metal slotted pipe.		
<b>33 05 27 33 Corrugated Metal Culvert Arch Pipe</b> <small>(33 05 27)</small>		
See CSI section 33 42 11 00-0799 for corrugated metal culvert arch pipe.		
<b>33 05 31 Thermoplastic Utility Pipe</b> <small>(33 05)</small>		
<b>33 05 31 11 Polyvinyl Chloride Gravity Sewer Pipe</b> <small>(33 05 31)</small>		
See CSI section 33 31 11 00-0000 for polyvinyl chloride gravity sewer pipe.		
<b>33 05 31 13 Polyvinyl Chloride Pressure Pipe</b> <small>(33 05 31)</small>		
See CSI section 33 14 13 23-0256 for polyvinyl chloride pressure pipe.		
<b>33 05 31 16 Polyvinyl Chloride Pressure Pipe for Water Transmission and Distribution (AWWA C900 and AWWA C905)</b> <small>(33 05 31)</small>		
See CSI section 33 14 13 23-0001 for AWWA C900 and 905 polyvinyl chloride pressure pipe.		
<b>33 05 33 Polyethylene Utility Pipe</b> <small>(33 05)</small>		
<b>33 05 33 13 Corrugated-Wall, Smooth Interior HDPE Gravity Pipe</b> <small>(33 05 33)</small>		
See CSI section 33 42 11 00-0227 for corrugated-wall smooth interior HDPE gravity pipe.		
<b>33 05 33 23 Polyethylene Pressure Pipe and Tubing (AWWA C901 and AWWA C906)</b> <small>(33 05 33)</small>		
See CSI section 33 14 13 23-0426 for AWWA C906 high density polyethylene pipe.		
<b>33 05 33 33 Corrugated, Perforated HDPE Drainage Pipe</b> <small>(33 05 33)</small>		
See CSI section 33 42 11 00-0249 for corrugated perforated HDPE drainage pipe.		
<b>33 05 33 36 Corrugated, Non-Perforated HDPE Drainage Pipe</b> <small>(33 05 33)</small>		
See CSI section 33 41 16 13-0002 for corrugated non-perforated HDPE drainage pipe.		
<b>33 05 33 53 HDPE Gas Utility Pipe</b> <small>(33 05 33)</small>		
See CSI section 33 52 16 26-0001 for high-density polyethylene gas utility pipe.		
<b>33 05 33 56 Medium-Density Polyethylene Gas Utility Pipe</b> <small>(33 05 33)</small>		
See CSI section 33 52 16 23-0000 for Medium-Density Polyethylene Gas Utility Pipe.		
<b>33 05 33 63 HDPE Communication Duct</b> <small>(33 05 33)</small>		
33 05 33 63-0001 ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine..... Note: Excludes boring.		
33 05 33 63-0002 LF 1" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.72	
For Up To 250, Add	0.12	
For >250 To 500, Add	0.08	
33 05 33 63-0003 LF 1-1/4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.16	
For Up To 250, Add	0.15	
For >250 To 500, Add	0.10	

**33 Utilities****33 05 Common Work Results for Utilities****33 05 33 Polyethylene Utility Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 33 63-0004 LF 1-1/2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.53	
For Up To 250, Add	0.17	
For >250 To 500, Add	0.11	
33 05 33 63-0005 LF 2" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.97	
For Up To 250, Add	0.20	
For >250 To 500, Add	0.13	
33 05 33 63-0006 LF 3" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	6.73	
For Up To 250, Add	0.42	
For >250 To 500, Add	0.28	
33 05 33 63-0007 LF 4" Schedule 40, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	8.54	
For Up To 250, Add	0.65	
For >250 To 500, Add	0.43	
33 05 33 63-0008 LF 1" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	3.80	
For Up To 250, Add	0.13	
For >250 To 500, Add	0.09	
33 05 33 63-0009 LF 1-1/4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.32	
For Up To 250, Add	0.17	
For >250 To 500, Add	0.12	
33 05 33 63-0010 LF 1-1/2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	4.66	
For Up To 250, Add	0.19	
For >250 To 500, Add	0.13	
33 05 33 63-0011 LF 2" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	5.30	
For Up To 250, Add	0.25	
For >250 To 500, Add	0.17	
33 05 33 63-0012 LF 3" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	7.45	
For Up To 250, Add	0.53	
For >250 To 500, Add	0.35	
33 05 33 63-0013 LF 4" Schedule 80, ASTM F2160, UL 651-A, NEMA TC-7, Smoothwall HDPE Conduit, Pulled In Place By Boring Machine.....	9.45	
For Up To 250, Add	0.78	
For >250 To 500, Add	0.52	

**33 05 39 Concrete Pipe** (33 05)**33 05 39 13 Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (AWWA C301)** (33 05)

<sup>39)</sup>  
See CSI section 33 42 11 00-0080 for prestressed concrete pressure pipe.

**33 05 39 41 Reinforced Concrete Pipe for Sewers and Culverts** (33 05 39)

See CSI section 33 42 11 00-0001 for reinforced concrete pipe.

**33 05 39 46 Reinforced Concrete Elliptical Pipe for Sewers and Culverts** (33 05 39)

See CSI section 33 42 11 00-0019 for reinforced concrete elliptical pipe.

**33 05 41 Vitrified Clay Utility Pipe** (33 05)

See CSI section 33 42 11 00-0353 for vitrified clay piping.

**33 05 61 Concrete Manholes** (33 05)**33 05 61 00-0001 Manholes** (33 05 61)**33 05 61 00-0002 Precast Concrete Manholes** (33 05 61 00-0001)

Note: Includes base, riser(s), reducer and openings. Excludes excavation, aggregate, backfill and frame/cover.

See CSI section 33 05 84 00-0002 for top slabs.

**33 05 61 00-0003 3' Diameter, Precast Concrete Manholes** (33 05 61 00-0002)

33 05 61 00-0004 EA 4' Deep, 3' Diameter, Precast Concrete Manhole.....	1,673.45	286.93
For Bitumastic Coating, Add	79.07	
For Epoxy Coating, Add	151.10	
33 05 61 00-0005 EA 6' Deep, 3' Diameter, Precast Concrete Manhole.....	2,277.61	412.13
For Bitumastic Coating, Add	118.61	
For Epoxy Coating, Add	226.65	
33 05 61 00-0006 EA 8' Deep, 3' Diameter, Precast Concrete Manhole.....	3,059.12	626.01
For Bitumastic Coating, Add	158.14	
For Epoxy Coating, Add	302.20	
33 05 61 00-0007 VLF Riser For 3' Diameter, Precast Concrete Manhole.....	322.94	73.03
Note: For depths greater than 8'.		
For Bitumastic Coating, Add	19.77	
For Epoxy Coating, Add	37.78	
33 05 61 00-0008 VLF Drop Collar For 3' Diameter, Precast Concrete Manhole.....	348.89	73.03
33 05 61 00-0009 EA Drop Base For 3' Diameter, Precast Concrete Manhole.....	564.81	73.03
33 05 61 00-0010 EA Extended Base Slab For 3' Diameter, Precast Concrete Manhole.....	448.86	73.03
33 05 61 00-0011 EA Precast Channel For 3' Diameter, Precast Concrete Manhole.....	646.35	73.03

**33 05 61 00-0012 4' Diameter, Precast Concrete Manholes** (33 05 61 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 61 00-0013 EA 4' Deep, 4' Diameter, Precast Concrete Manhole	2,483.21	328.65
<i>For Bitumastic Coating, Add</i>	79.07	
<i>For Epoxy Coating, Add</i>	151.10	
33 05 61 00-0014 EA 6' Deep, 4' Diameter, Precast Concrete Manhole	3,311.81	448.64
<i>For Bitumastic Coating, Add</i>	118.61	
<i>For Epoxy Coating, Add</i>	226.65	
33 05 61 00-0015 EA 8' Deep, 4' Diameter, Precast Concrete Manhole	4,349.93	678.18
<i>For Bitumastic Coating, Add</i>	158.14	
<i>For Epoxy Coating, Add</i>	302.20	
33 05 61 00-0016 VLF Riser For 4' Diameter, Precast Concrete Manhole	462.54	86.08
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	19.77	
<i>For Epoxy Coating, Add</i>	37.78	
33 05 61 00-0017 VLF Drop Collar For 4' Diameter, Precast Concrete Manhole	505.53	86.08
33 05 61 00-0018 EA Drop Base For 4' Diameter, Precast Concrete Manhole	863.19	86.08
33 05 61 00-0019 EA Extended Base Slab For 4' Diameter, Precast Concrete Manhole	671.12	86.08
33 05 61 00-0020 EA Precast Channel For 4' Diameter, Precast Concrete Manhole	998.29	86.08
<b>33 05 61 00-0021 5' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small>		
33 05 61 00-0022 EA 4' Deep, 5' Diameter, Precast Concrete Manhole	4,732.36	365.18
<i>For Bitumastic Coating, Add</i>	101.88	
<i>For Epoxy Coating, Add</i>	243.59	
33 05 61 00-0023 EA 6' Deep, 5' Diameter, Precast Concrete Manhole	6,299.19	500.81
<i>For Bitumastic Coating, Add</i>	152.82	
<i>For Epoxy Coating, Add</i>	365.39	
33 05 61 00-0024 EA 8' Deep, 5' Diameter, Precast Concrete Manhole	8,098.26	751.21
<i>For Bitumastic Coating, Add</i>	203.76	
<i>For Epoxy Coating, Add</i>	487.18	
33 05 61 00-0025 VLF Riser For 5' Diameter, Precast Concrete Manhole	837.23	93.91
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	25.47	
<i>For Epoxy Coating, Add</i>	60.90	
<b>33 05 61 00-0026 6' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small>		
33 05 61 00-0027 EA 4' Deep, 6' Diameter, Precast Concrete Manhole	6,372.44	406.91
<i>For Bitumastic Coating, Add</i>	116.64	
<i>For Epoxy Coating, Add</i>	285.18	
33 05 61 00-0028 EA 6' Deep, 6' Diameter, Precast Concrete Manhole	8,292.86	552.98
<i>For Bitumastic Coating, Add</i>	174.96	
<i>For Epoxy Coating, Add</i>	427.77	
33 05 61 00-0029 EA 8' Deep, 6' Diameter, Precast Concrete Manhole	10,473.28	834.68
<i>For Bitumastic Coating, Add</i>	233.28	
<i>For Epoxy Coating, Add</i>	570.36	
33 05 61 00-0030 VLF Riser For 6' Diameter, Precast Concrete Manhole	1,019.57	104.34
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	29.16	
<i>For Epoxy Coating, Add</i>	71.30	
<b>33 05 61 00-0031 7' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small>		
33 05 61 00-0032 EA 4' Deep, 7' Diameter, Precast Concrete Manhole	10,098.15	448.64
<i>For Bitumastic Coating, Add</i>	248.03	
<i>For Epoxy Coating, Add</i>	498.33	
33 05 61 00-0033 EA 6' Deep, 7' Diameter, Precast Concrete Manhole	13,049.84	611.93
<i>For Bitumastic Coating, Add</i>	372.05	
<i>For Epoxy Coating, Add</i>	747.50	
33 05 61 00-0034 EA 8' Deep, 7' Diameter, Precast Concrete Manhole	16,287.41	918.15
<i>For Bitumastic Coating, Add</i>	496.07	
<i>For Epoxy Coating, Add</i>	996.66	
33 05 61 00-0035 VLF Riser For 7' Diameter, Precast Concrete Manhole	1,542.10	114.77
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	62.01	
<i>For Epoxy Coating, Add</i>	124.58	
<b>33 05 61 00-0036 8' Diameter, Precast Concrete Manholes</b> <small>(33 05 61 00-0002)</small>		
33 05 61 00-0037 EA 4' Deep, 8' Diameter, Precast Concrete Manhole	14,649.87	516.46
<i>For Bitumastic Coating, Add</i>	293.23	
<i>For Epoxy Coating, Add</i>	607.42	
33 05 61 00-0038 EA 6' Deep, 8' Diameter, Precast Concrete Manhole	18,986.31	704.26
<i>For Bitumastic Coating, Add</i>	439.85	
<i>For Epoxy Coating, Add</i>	911.14	
33 05 61 00-0039 EA 8' Deep, 8' Diameter, Precast Concrete Manhole	23,651.40	1,056.40
<i>For Bitumastic Coating, Add</i>	586.46	
<i>For Epoxy Coating, Add</i>	1,214.85	
33 05 61 00-0040 VLF Riser For 8' Diameter, Precast Concrete Manhole	2,241.26	130.42
Note: For depths greater than 8'.		
<i>For Bitumastic Coating, Add</i>	73.31	
<i>For Epoxy Coating, Add</i>	151.86	

**33 Utilities****33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**33 05 63 Concrete Vaults and Chambers** (33 05)

33 05 63 00-0001	Underground Utility Vaults And Structures <small>(33 05 63)</small> See CSI section 33 05 61 00-0001 for manholes, 33 05 81 00-0006 for frames and covers.	
33 05 63 00-0002	Precast Concrete Underground Utility Vault <small>(33 05 63 00-0001)</small> Note: Sizes given are for inside dimensions.	
33 05 63 00-0003	6' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>	
33 05 63 00-0004	EA 4' x 4' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	3,391.72
33 05 63 00-0005	EA 4' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,421.12
33 05 63 00-0006	EA 5' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,293.80
33 05 63 00-0007	EA 5' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,421.90
33 05 63 00-0008	EA 6' x 6' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,649.97
33 05 63 00-0009	EA 6' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,877.76
33 05 63 00-0010	EA 6' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,106.61
33 05 63 00-0011	EA 6' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,712.48
33 05 63 00-0012	EA 6' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	11,712.48
33 05 63 00-0013	EA 6' x 16' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	14,747.88
33 05 63 00-0014	EA 8' x 8' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,306.07
33 05 63 00-0015	EA 8' x 10' x 6' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,733.32
33 05 63 00-0016	EA 8' x 12' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,912.96
33 05 63 00-0017	EA 8' x 14' x 6' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,658.96
33 05 63 00-0018	7' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>	
33 05 63 00-0019	EA 4' x 4' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,673.46
33 05 63 00-0020	EA 4' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,068.40
33 05 63 00-0021	EA 4' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,962.77
33 05 63 00-0022	EA 5' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,934.14
33 05 63 00-0023	EA 5' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,148.28
33 05 63 00-0024	EA 6' x 6' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,712.87
33 05 63 00-0025	EA 6' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,476.12
33 05 63 00-0026	EA 6' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,001.88
33 05 63 00-0027	EA 6' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	12,736.97
33 05 63 00-0028	EA 6' x 16' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,000.14
33 05 63 00-0029	EA 8' x 8' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,989.40
33 05 63 00-0030	EA 8' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	10,501.71
33 05 63 00-0031	EA 8' x 12' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,051.94
33 05 63 00-0032	EA 8' x 14' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,910.17
33 05 63 00-0033	EA 10' x 10' x 7' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	15,278.95
33 05 63 00-0034	8' High Precast Concrete Underground Utility Vault <small>(33 05 63 00-0002)</small>	
33 05 63 00-0035	EA 4' x 4' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	4,075.05
33 05 63 00-0036	EA 4' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	5,275.58
33 05 63 00-0037	EA 5' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,574.44
33 05 63 00-0038	EA 5' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,873.62
33 05 63 00-0039	EA 6' x 6' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	6,674.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0040 EA 6' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,073.38	
33 05 63 00-0041 EA 6' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,472.31	
33 05 63 00-0042 EA 6' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	13,761.44	
33 05 63 00-0043 EA 6' x 16' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,252.48	
33 05 63 00-0044 EA 8' x 8' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,671.72	
33 05 63 00-0045 EA 8' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	11,270.06	
33 05 63 00-0046 EA 8' x 12' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,189.80	
33 05 63 00-0047 EA 8' x 14' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	18,162.51	
33 05 63 00-0048 EA 10' x 10' x 8' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	16,417.59	
<b>33 05 63 00-0049 10' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)</b>		
33 05 63 00-0050 EA 6' x 6' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,186.74	
33 05 63 00-0051 EA 6' x 8' x 10' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	8,670.65	
33 05 63 00-0052 EA 10' x 10' x 10' Precast Concrete Underground Utility Vault..... Note: 8" thick walls and top.	17,555.39	
<b>33 05 63 00-0053 12' High Precast Concrete Underground Utility Vault (33 05 63 00-0002)</b>		
33 05 63 00-0054 EA 6' x 6' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	7,698.99	
33 05 63 00-0055 EA 6' x 8' x 12' Precast Concrete Underground Utility Vault..... Note: 6" thick walls and 8" thick top.	9,269.00	
<b>33 05 63 00-0056 Meter Pit (33 05 63 00-0001)</b>		
<b>33 05 63 00-0057 Precast Concrete Meter Pit (33 05 63 00-0056)</b>		
33 05 63 00-0058 EA 4' x 4' x 4' Deep Precast Concrete Meter Pit.....	3,349.64	
33 05 63 00-0059 EA 4' x 4' x 6' Deep Precast Concrete Meter Pit.....	4,548.14	
33 05 63 00-0060 EA 4' x 4' x 8' Deep Precast Concrete Meter Pit.....	5,719.19	
33 05 63 00-0061 EA 4' x 4' x 10' Deep Precast Concrete Meter Pit.....	7,091.12	
33 05 63 00-0062 EA 4' x 4' x 15' Deep Precast Concrete Meter Pit.....	9,818.46	
33 05 63 00-0063 EA 6' x 6' x 4' Deep Precast Concrete Meter Pit.....	5,085.10	
33 05 63 00-0064 EA 6' x 6' x 6' Deep Precast Concrete Meter Pit.....	7,091.12	
33 05 63 00-0065 EA 6' x 6' x 8' Deep Precast Concrete Meter Pit.....	9,144.96	
33 05 63 00-0066 EA 6' x 6' x 10' Deep Precast Concrete Meter Pit.....	11,408.31	
33 05 63 00-0067 EA 6' x 6' x 15' Deep Precast Concrete Meter Pit.....	16,261.95	
<b>33 05 63 00-0068 Handhole Or Pull Box Enclosures (33 05 63 00-0001)</b>		
<b>33 05 63 00-0069 Polymer Concrete Handhole Enclosures (33 05 63 00-0068)</b>		
<b>33 05 63 00-0070 Polymer Concrete Handhole Enclosures (33 05 63 00-0069)</b> Note: Excludes cover See CSI section 33 05 63 00-0290 for covers.		
<b>33 05 63 00-0071 Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0070)</b>		
<b>33 05 63 00-0072 Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures (33 05 63 00-0071)</b>		
33 05 63 00-0073 EA 12" x 12", 24" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	542.52	22.79
33 05 63 00-0074 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	424.47	50.58
33 05 63 00-0075 EA 13" x 24", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	649.99	75.88
33 05 63 00-0076 EA 17" x 30", 18" Depth, 15,000 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	773.06	75.88
33 05 63 00-0077 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	732.39	75.88
33 05 63 00-0078 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	909.88	75.88
33 05 63 00-0079 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	883.09	75.88
33 05 63 00-0080 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,242.47	75.88
33 05 63 00-0081 EA 27" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,774.11	101.17
33 05 63 00-0082 EA 27" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,547.53	101.17
33 05 63 00-0083 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,543.48	139.10

**33 Utilities****33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0084 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,785.68	139.10
33 05 63 00-0085 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	3,045.67	139.10
33 05 63 00-0086 EA 39" Round, 18" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,643.69	151.75
33 05 63 00-0087 EA 39" Round, 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,437.06	151.75
33 05 63 00-0088 EA 39" Round, 36" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	3,085.85	151.75
33 05 63 00-0089 EA 39" Round, 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	4,620.36	151.75
33 05 63 00-0090 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,373.13	244.70
33 05 63 00-0091 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	3,567.21	244.70
<b>33 05 63 00-0092 Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0071)</small>		
33 05 63 00-0093 EA 12" x 12", 24" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	703.28	22.79
33 05 63 00-0094 EA 13" x 24", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	841.47	75.88
33 05 63 00-0095 EA 17" x 30", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,039.55	75.88
33 05 63 00-0096 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	950.88	75.88
33 05 63 00-0097 EA 13" x 24", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,102.58	75.88
33 05 63 00-0098 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,142.36	75.88
33 05 63 00-0099 EA 17" x 30", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,503.97	75.88
33 05 63 00-0100 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	1,950.64	139.10
33 05 63 00-0101 EA 24" x 36", 26" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,192.84	139.10
33 05 63 00-0102 EA 24" x 36", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	3,452.86	139.10
33 05 63 00-0103 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	2,848.93	244.70
33 05 63 00-0104 EA 30" x 48", 48" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure.....	4,052.08	244.70
<b>33 05 63 00-0105 Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0070)</small>		
<b>33 05 63 00-0106 Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>		
33 05 63 00-0107 EA 5" x 16", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	910.17	22.79
33 05 63 00-0108 EA 10" x 12", 15" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	764.66	22.79
33 05 63 00-0109 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	542.61	75.88
33 05 63 00-0110 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	628.47	75.88
33 05 63 00-0111 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	189.90	22.79
33 05 63 00-0112 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	311.57	22.79
33 05 63 00-0113 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	522.76	22.79
33 05 63 00-0114 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	548.32	22.79
33 05 63 00-0115 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	415.55	50.58
33 05 63 00-0116 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	454.75	50.58
33 05 63 00-0117 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	306.35	22.79
33 05 63 00-0118 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	354.23	22.79
33 05 63 00-0119 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	450.68	50.58
33 05 63 00-0120 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	516.59	50.58
33 05 63 00-0121 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	473.93	50.58
33 05 63 00-0122 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	546.61	75.88
33 05 63 00-0123 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	611.25	75.88
33 05 63 00-0124 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	659.33	75.88
33 05 63 00-0125 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	731.74	75.88
33 05 63 00-0126 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure.....	876.13	75.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0127 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	963.72	75.88
33 05 63 00-0128 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,059.57	75.88
33 05 63 00-0129 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,119.84	75.88
33 05 63 00-0130 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,319.79	101.17
33 05 63 00-0131 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,281.10	139.10
33 05 63 00-0132 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,700.86	139.10
33 05 63 00-0133 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,088.46	139.10
33 05 63 00-0134 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,333.24	139.10
33 05 63 00-0135 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,576.71	139.10
33 05 63 00-0136 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,838.98	244.70
33 05 63 00-0137 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,980.89	244.70
33 05 63 00-0138 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,291.77	244.70
33 05 63 00-0139 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,886.25	244.70
33 05 63 00-0140 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,880.14	244.70
33 05 63 00-0141 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,102.05	244.70
33 05 63 00-0142 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,528.81	244.70
33 05 63 00-0143 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,197.83	262.17
33 05 63 00-0144 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,499.14	262.17
33 05 63 00-0145 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,883.81	262.17
33 05 63 00-0146 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	4,037.74	262.17
33 05 63 00-0147 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	4,091.24	262.17
33 05 63 00-0148 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	4,677.38	262.17
33 05 63 00-0149 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,539.07	262.17
33 05 63 00-0150 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	4,774.11	262.17
33 05 63 00-0151 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	5,393.62	279.66
33 05 63 00-0152 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	6,737.39	279.66
33 05 63 00-0153 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	8,740.01	279.66
<b>33 05 63 00-0154 Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>		
33 05 63 00-0155 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	765.52	75.88
33 05 63 00-0156 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	892.89	75.88
33 05 63 00-0157 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	342.55	22.79
33 05 63 00-0158 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	508.85	22.79
33 05 63 00-0159 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	692.67	22.79
33 05 63 00-0160 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	718.27	22.79
33 05 63 00-0161 EA 10" x 15", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Flared Sides, Polymer Concrete Handhole Enclosure .....	582.93	50.58
33 05 63 00-0162 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	610.22	50.58
33 05 63 00-0163 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	646.69	50.58
33 05 63 00-0164 EA 8" x 8", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	472.80	22.79
33 05 63 00-0165 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	564.35	22.79
33 05 63 00-0166 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	645.80	50.58
33 05 63 00-0167 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	711.72	50.58

**33 Utilities****33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0168 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	671.13	50.58
33 05 63 00-0169 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	764.29	75.88
33 05 63 00-0170 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	829.74	75.88
33 05 63 00-0171 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	919.10	75.88
33 05 63 00-0172 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	991.05	75.88
33 05 63 00-0173 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,135.02	75.88
33 05 63 00-0174 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,222.99	75.88
33 05 63 00-0175 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,318.42	75.88
33 05 63 00-0176 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,379.10	75.88
33 05 63 00-0177 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,677.95	101.17
33 05 63 00-0178 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,688.29	139.10
33 05 63 00-0179 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,107.56	139.10
33 05 63 00-0180 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,494.73	139.10
33 05 63 00-0181 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,739.13	139.10
33 05 63 00-0182 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,983.40	139.10
33 05 63 00-0183 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,452.19	244.70
33 05 63 00-0184 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,763.54	244.70
33 05 63 00-0185 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Open Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,357.56	244.70

**33 05 63 00-0186 Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures** (33 05 63 00-0105)

33 05 63 00-0187 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	694.34	75.88
33 05 63 00-0188 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	825.25	75.88
33 05 63 00-0189 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	245.24	22.79
33 05 63 00-0190 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	423.41	22.79
33 05 63 00-0191 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	621.57	22.79
33 05 63 00-0192 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	647.63	22.79
33 05 63 00-0193 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	536.12	50.58
33 05 63 00-0194 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	611.98	50.58
33 05 63 00-0195 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	366.69	22.79
33 05 63 00-0196 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	573.40	50.58
33 05 63 00-0197 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	667.90	50.58
33 05 63 00-0198 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	597.96	50.58
33 05 63 00-0199 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	754.26	75.88
33 05 63 00-0200 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	883.47	75.88
33 05 63 00-0201 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	926.44	75.88
33 05 63 00-0202 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,028.75	75.88
33 05 63 00-0203 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,122.87	75.88
33 05 63 00-0204 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,211.73	75.88
33 05 63 00-0205 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,370.84	75.88
33 05 63 00-0206 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,393.02	75.88
33 05 63 00-0207 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,705.70	101.17
33 05 63 00-0208 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,724.27	139.10
33 05 63 00-0209 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,187.31	139.10
33 05 63 00-0210 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,645.23	139.10
33 05 63 00-0211 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,949.39	139.10





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0212 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,253.55	139.10
33 05 63 00-0213 EA 36" x 36", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,405.67	244.70
33 05 63 00-0214 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,547.62	244.70
33 05 63 00-0215 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,882.75	244.70
33 05 63 00-0216 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,476.81	244.70
33 05 63 00-0217 EA 30" x 60", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,738.85	244.70
33 05 63 00-0218 EA 30" x 60", 30" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,820.90	244.70
33 05 63 00-0219 EA 30" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	4,616.92	244.70
33 05 63 00-0220 EA 36" x 60", 19" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	4,239.51	262.17
33 05 63 00-0221 EA 36" x 60", 24" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	4,395.20	262.17
33 05 63 00-0222 EA 36" x 60", 31" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	4,836.84	262.17
33 05 63 00-0223 EA 36" x 60", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	5,171.09	262.17
33 05 63 00-0224 EA 36" x 72", 21" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	4,724.30	262.17
33 05 63 00-0225 EA 36" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	5,919.72	262.17
33 05 63 00-0226 EA 48" x 48", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	5,096.49	262.17
33 05 63 00-0227 EA 48" x 48", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	5,632.86	262.17
33 05 63 00-0228 EA 48" x 72", 36" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	6,868.98	279.66
33 05 63 00-0229 EA 48" x 72", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	8,213.29	279.66
33 05 63 00-0230 EA 48" x 96", 48" Depth, 22,500 LB Design Load, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	11,196.53	279.66
<b>33 05 63 00-0231 Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>		
33 05 63 00-0232 EA 13" x 24", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	917.22	75.88
33 05 63 00-0233 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,090.16	75.88
33 05 63 00-0234 EA 6" x 8", 6" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	396.66	22.79
33 05 63 00-0235 EA 12" x 12", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	620.31	22.79
33 05 63 00-0236 EA 8" x 18", 7" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	791.14	22.79
33 05 63 00-0237 EA 8" x 18", 8" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	817.54	22.79
33 05 63 00-0238 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	731.24	50.58
33 05 63 00-0239 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	806.65	50.58
33 05 63 00-0240 EA 8" x 8", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	583.06	22.79
33 05 63 00-0241 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	767.64	50.58
33 05 63 00-0242 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	862.14	50.58
33 05 63 00-0243 EA 11" x 20", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	739.47	50.58
33 05 63 00-0244 EA 13" x 24", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	972.83	75.88
33 05 63 00-0245 EA 13" x 24", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,102.04	75.88
33 05 63 00-0246 EA 17" x 30", 12" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,185.71	75.88
33 05 63 00-0247 EA 17" x 30", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,288.06	75.88
33 05 63 00-0248 EA 17" x 30", 22" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,382.14	75.88
33 05 63 00-0249 EA 17" x 30", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,471.04	75.88
33 05 63 00-0250 EA 17" x 30", 28" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,630.19	75.88
33 05 63 00-0251 EA 17" x 30", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	1,652.28	75.88
33 05 63 00-0252 EA 24" x 24", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,063.39	101.17

**33 Utilities****33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0253 EA 24" x 36", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,131.42	139.10
33 05 63 00-0254 EA 24" x 36", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	2,594.04	139.10
33 05 63 00-0255 EA 24" x 36", 30" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,051.47	139.10
33 05 63 00-0256 EA 24" x 36", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,355.86	139.10
33 05 63 00-0257 EA 24" x 36", 42" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,660.25	139.10
33 05 63 00-0258 EA 30" x 48", 18" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,019.35	244.70
33 05 63 00-0259 EA 30" x 48", 24" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,354.94	244.70
33 05 63 00-0260 EA 30" x 48", 36" Depth, 22,500 LB Design Load, Gasketed, Solid Bottom, Straight Sides, Polymer Concrete Handhole Enclosure .....	3,948.58	244.70
<b>33 05 63 00-0261 Footed, Straight Sides, Polymer Concrete Handhole Enclosures</b> <small>(33 05 63 00-0105)</small>		
33 05 63 00-0262 EA 17" x 30", 12" Depth, 5,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....	748.69	75.88
33 05 63 00-0263 EA 11" x 18", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....	506.60	50.58
33 05 63 00-0264 EA 11" x 18", 18" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....	579.47	50.58
33 05 63 00-0265 EA 13" x 24", 12" Depth, 15,000 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....	654.11	75.88
33 05 63 00-0266 EA 11" x 18", 12" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....	530.47	50.58
33 05 63 00-0267 EA 11" x 18", 18" Depth, 22,500 LB Design Load, Footed, Straight Sides, Polymer Concrete Handhole Enclosure .....	600.26	50.58
<b>33 05 63 00-0268 Polymer Concrete Handhole Enclosure Extensions</b> <small>(33 05 63 00-0069)</small>		
Note: Excludes bases See CSI section 33 05 63 00-0070 for bases.		
33 05 63 00-0269 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	518.44	75.88
33 05 63 00-0270 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	594.38	75.88
33 05 63 00-0271 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	662.51	101.17
33 05 63 00-0272 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	737.07	101.17
33 05 63 00-0273 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	846.31	139.10
33 05 63 00-0274 EA 36" x 36", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	1,538.60	244.70
33 05 63 00-0275 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	1,457.09	244.70
33 05 63 00-0276 EA 30" x 48", 11" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	1,474.88	244.70
33 05 63 00-0277 EA 36" x 60", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	2,071.59	262.17
33 05 63 00-0278 EA 48" x 72", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	3,453.03	279.66
33 05 63 00-0279 EA 48" x 96", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Extension .....	4,637.15	279.66
33 05 63 00-0280 EA 13" x 24", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	916.91	75.88
33 05 63 00-0281 EA 17" x 30", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	963.30	75.88
33 05 63 00-0282 EA 24" x 24", 6" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	1,002.41	101.17
33 05 63 00-0283 EA 24" x 24", 12" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	1,077.78	101.17
33 05 63 00-0284 EA 24" x 36", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	1,219.10	139.10
33 05 63 00-0285 EA 30" x 48", 8" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Solid Base Extension .....	1,983.92	244.70
33 05 63 00-0286 EA 13" x 24", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension .....	690.12	75.88
33 05 63 00-0287 EA 17" x 30", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension .....	781.63	75.88
33 05 63 00-0288 EA 24" x 36", 4" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension .....	977.59	139.10
33 05 63 00-0289 EA 36" x 60", 3" Extension, 22,500 LB Design Load, Straight Sides, Polymer Concrete Handhole Enclosure Grade Adjustable Extension .....	1,984.31	262.17
<b>33 05 63 00-0290 Polymer Concrete Handhole Enclosure Covers</b> <small>(33 05 63 00-0069)</small>		
<b>33 05 63 00-0291 Polymer Concrete Handhole Enclosure Covers</b> <small>(33 05 63 00-0290)</small>		
33 05 63 00-0292 EA 5" x 16", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	208.42	10.13
33 05 63 00-0293 EA 10" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	211.34	10.13
33 05 63 00-0294 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	194.62	10.13
33 05 63 00-0295 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	211.92	10.13
33 05 63 00-0296 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	214.14	10.12
33 05 63 00-0297 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	248.19	10.12
33 05 63 00-0298 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	290.31	10.12



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0299	EA			30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	1,969.51	31.46
33 05 63 00-0300	EA			30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	1,718.35	31.46
33 05 63 00-0301	EA			36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	2,593.16	31.46
33 05 63 00-0302	EA			48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	2,622.99	31.46
33 05 63 00-0303	EA			36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	2,976.95	31.46
33 05 63 00-0304	EA			48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	3,247.33	31.46
33 05 63 00-0305	EA			48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	5,243.53	31.46
33 05 63 00-0306	EA			10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	176.05	10.12
33 05 63 00-0307	EA			11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	259.64	10.12
33 05 63 00-0308	EA			11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	263.52	10.12
33 05 63 00-0309	EA			13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	335.97	10.12
33 05 63 00-0310	EA			13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover .....	294.26	10.12
33 05 63 00-0311	EA			17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	400.57	10.12
33 05 63 00-0312	EA			17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover .....	310.83	10.12
33 05 63 00-0313	EA			27" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	655.88	10.12
33 05 63 00-0314	EA			24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	564.04	15.18
33 05 63 00-0315	EA			24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	713.39	15.18
33 05 63 00-0316	EA			39" Round, 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	922.61	17.70
33 05 63 00-0317	EA			36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	1,301.23	24.47
33 05 63 00-0318	EA			30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover .....	1,348.68	46.61
33 05 63 00-0319	EA			11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	340.31	10.12
33 05 63 00-0320	EA			13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	492.51	10.12
33 05 63 00-0321	EA			17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	562.76	10.12
33 05 63 00-0322	EA			27" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	947.09	10.12
33 05 63 00-0323	EA			24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	769.35	15.18
33 05 63 00-0324	EA			39" Round, 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,313.67	17.70
33 05 63 00-0325	EA			36" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,724.83	24.47
33 05 63 00-0326	EA			30" x 59", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	2,329.59	31.46
33 05 63 00-0327	EA			30" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	2,066.44	31.46
33 05 63 00-0328	EA			36" x 60", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	2,903.24	31.46
33 05 63 00-0329	EA			48" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	3,793.19	31.46
33 05 63 00-0330	EA			36" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	3,630.85	31.46
33 05 63 00-0331	EA			48" x 72", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	5,533.36	31.46
33 05 63 00-0332	EA			48" x 96", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	8,569.94	31.46
33 05 63 00-0333	EA			11" x 18", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	453.07	10.12
33 05 63 00-0334	EA			11" x 20", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	497.04	10.12
33 05 63 00-0335	EA			13" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	659.88	10.12
33 05 63 00-0336	EA			17" x 30", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	754.39	10.12
33 05 63 00-0337	EA			27" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,316.39	10.12
33 05 63 00-0338	EA			24" x 24", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	943.38	15.18
33 05 63 00-0339	EA			24" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	1,299.19	15.18
33 05 63 00-0340	EA			39" Round, 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	2,024.18	17.70
33 05 63 00-0341	EA			36" x 36", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	2,314.51	24.47
33 05 63 00-0342	EA			30" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	2,404.47	46.61
33 05 63 00-0343	EA			30" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	2,782.64	31.46
33 05 63 00-0344	EA			36" x 60", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	3,901.46	31.46
33 05 63 00-0345	EA			48" x 48", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	5,475.13	31.46
33 05 63 00-0346	EA			36" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	4,881.23	31.46
33 05 63 00-0347	EA			48" x 72", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	8,116.93	31.46
33 05 63 00-0348	EA			48" x 96", 22,500 LB Design Load, Extra Heavy Duty, Polymer Concrete Handhole Enclosure Cover .....	12,551.51	31.46
<b>33 05 63 00-0349 Polymer Concrete Handhole Enclosure Covers With Gaskets <small>(33 05 63 00-0290)</small></b>						
33 05 63 00-0350	EA			12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	241.89	10.13
33 05 63 00-0351	EA			8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	256.61	10.13
33 05 63 00-0352	EA			11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	261.41	10.12
33 05 63 00-0353	EA			13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	263.21	10.12
33 05 63 00-0354	EA			17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	306.38	10.12
33 05 63 00-0355	EA			10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	189.62	10.12
33 05 63 00-0356	EA			11" x 18", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	273.55	10.12
33 05 63 00-0357	EA			11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	276.24	10.12
33 05 63 00-0358	EA			13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	350.30	10.12
33 05 63 00-0359	EA			13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket .....	264.87	10.12
33 05 63 00-0360	EA			17" x 30", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover With Gasket .....	327.32	10.12
33 05 63 00-0361	EA			17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	415.76	10.12
33 05 63 00-0362	EA			24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	574.23	15.18
33 05 63 00-0363	EA			24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	729.03	15.18
33 05 63 00-0364	EA			30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	1,364.74	46.61
33 05 63 00-0365	EA			6" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	155.11	10.13
33 05 63 00-0366	EA			8" x 8", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	252.00	10.13
33 05 63 00-0367	EA			8" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	282.21	10.13
33 05 63 00-0368	EA			12" x 12", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	268.80	10.13
33 05 63 00-0369	EA			10" x 15", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	218.48	10.12
33 05 63 00-0370	EA			11" x 18", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	354.19	10.12
33 05 63 00-0371	EA			11" x 20", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	385.55	10.12
33 05 63 00-0372	EA			13" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	507.26	10.12
33 05 63 00-0373	EA			17" x 30", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	578.79	10.12
33 05 63 00-0374	EA			24" x 24", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	783.69	15.18
33 05 63 00-0375	EA			24" x 36", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	984.81	15.18

**33 Utilities****33 05 Common Work Results for Utilities****33 05 63 Concrete Vaults and Chambers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0376 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Polymer Concrete Handhole Enclosure Cover With Gasket .....	1,809.14	46.61
<b>33 05 63 00-0377 Polymer Concrete Handhole Enclosure Covers Without Bolts (33 05 63 00-0290)</b>		
33 05 63 00-0378 EA 6" x 9", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	121.79	10.13
33 05 63 00-0379 EA 7" x 13", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	147.85	10.13
33 05 63 00-0380 EA 12" x 12", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	182.94	10.13
33 05 63 00-0381 EA 8" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	198.54	10.13
33 05 63 00-0382 EA 11" x 18", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	198.11	10.12
33 05 63 00-0383 EA 13" x 24", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	238.08	10.12
33 05 63 00-0384 EA 17" x 30", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	277.36	10.12
33 05 63 00-0385 EA 24" x 36", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	687.80	15.18
33 05 63 00-0386 EA 30" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	1,290.18	46.61
33 05 63 00-0387 EA 30" x 59", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	1,947.57	31.46
33 05 63 00-0388 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	1,693.56	31.46
33 05 63 00-0389 EA 48" x 48", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	2,552.38	31.46
33 05 63 00-0390 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	2,461.57	31.46
33 05 63 00-0391 EA 36" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	2,953.28	31.46
33 05 63 00-0392 EA 48" x 72", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	3,159.86	31.46
33 05 63 00-0393 EA 48" x 96", 5,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	5,075.43	31.46
33 05 63 00-0394 EA 10" x 15", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	168.63	10.12
33 05 63 00-0395 EA 10" x 16", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	164.29	10.12
33 05 63 00-0396 EA 11" x 20", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	250.26	10.12
33 05 63 00-0397 EA 11" x 21", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	276.59	10.12
33 05 63 00-0398 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	315.18	10.12
33 05 63 00-0399 EA 13" x 24", 8,000 LB Design Load, Standard Duty, Service Box, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	235.81	10.12
33 05 63 00-0400 EA 18" x 19", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	264.87	10.12
33 05 63 00-0401 EA 17" x 30", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	382.36	10.12
33 05 63 00-0402 EA 24" x 24", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	552.24	15.18
33 05 63 00-0403 EA 20" x 42", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	695.91	15.18
33 05 63 00-0404 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	687.37	15.18
33 05 63 00-0405 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	1,247.88	24.47
33 05 63 00-0406 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Polymer Concrete Handhole Enclosure Cover Without Bolts .....	1,290.18	27.97
<b>33 05 63 00-0407 Overlapping, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)</b>		
33 05 63 00-0408 EA 30" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	2,029.39	31.46
33 05 63 00-0409 EA 36" x 60", 5,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	2,956.31	31.46
33 05 63 00-0410 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	1,700.72	46.61
33 05 63 00-0411 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	2,266.57	46.61
33 05 63 00-0412 EA 30" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	2,418.60	31.46
33 05 63 00-0413 EA 36" x 60", 15,000 LB Design Load, Heavy Duty, Overlapping, Polymer Concrete Handhole Enclosure Cover .....	3,310.70	31.46
<b>33 05 63 00-0414 Split, Polymer Concrete Handhole Enclosure Covers (33 05 63 00-0290)</b>		
33 05 63 00-0415 EA 24" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	783.96	15.18
33 05 63 00-0416 EA 36" x 36", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	1,468.18	24.47
33 05 63 00-0417 EA 30" x 48", 8,000 LB Design Load, Standard Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	1,532.12	46.61
33 05 63 00-0418 EA 6" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	114.53	10.13
33 05 63 00-0419 EA 8" x 8", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	199.93	10.13
33 05 63 00-0420 EA 12" x 12", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	221.53	10.13
33 05 63 00-0421 EA 8" x 18", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	235.82	10.13
33 05 63 00-0422 EA 10" x 15", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	205.03	10.12
33 05 63 00-0423 EA 11" x 20", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	372.83	10.12
33 05 63 00-0424 EA 24" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	1,058.29	15.18
33 05 63 00-0425 EA 36" x 36", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	1,962.92	24.47
33 05 63 00-0426 EA 30" x 48", 15,000 LB Design Load, Heavy Duty, Split, Polymer Concrete Handhole Enclosure Cover .....	2,054.15	46.61
<b>33 05 63 00-0427 Precast Concrete Handholes With Steel Cover (33 05 63 00-0068)</b>		
Note: 8000 To 12000 pound traffic rated top. Includes cover stamped with utility (Electrical, Sewer, Water, Etc.).		
33 05 63 00-0428 EA 12" x 12" x 12" Precast Concrete Handholes With Steel Cover .....	991.55	253.45
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	18.00	
33 05 63 00-0429 EA 12" x 24" x 21" Precast Concrete Handholes With Steel Cover .....	1,684.69	380.17
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	110.37	
33 05 63 00-0430 EA 18" x 30" x 18" Precast Concrete Handholes With Steel Cover .....	2,024.31	506.89
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	194.10	
33 05 63 00-0431 EA 24" x 24" x 24" Precast Concrete Handholes With Steel Cover .....	2,110.55	506.89
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	245.66	
33 05 63 00-0432 EA 24" x 24" x 30" Precast Concrete Handholes With Steel Cover .....	2,466.62	633.62
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	296.15	
33 05 63 00-0433 EA 30" x 36" x 30" Precast Concrete Handholes With Steel Cover .....	2,609.71	633.62
Note: 8000 To 12000 pound traffic rated top.		
For 15,000 to 22,500 Pound Traffic Rated Top, Add	324.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 63 00-0434 EA 36" x 36" x 48" Precast Concrete Handholes With Steel Cover ..... Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	3,003.83 379.56	760.34
33 05 63 00-0435 EA 48" x 48" x 48" Precast Concrete Handholes With Steel Cover ..... Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	3,443.66 527.85	887.07
33 05 63 00-0436 EA 48" x 72" x 36" Precast Concrete Handholes With Steel Cover ..... Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	3,429.06 568.88	760.34
33 05 63 00-0437 EA 54" x 38" x 24" Precast Concrete Handholes With Steel Cover ..... Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	3,465.63 398.68	760.34
33 05 63 00-0438 EA 6" Diameter Precast Concrete Handholes With Steel Cover ..... Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	757.38 15.00	253.45
33 05 63 00-0439 EA 9" Diameter Precast Concrete Handholes With Steel Cover ..... Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	897.77 15.00	285.13
33 05 63 00-0440 EA 12" Diameter Precast Concrete Handholes With Steel Cover ..... Note: 8000 To 12000 pound traffic rated top. For 15,000 to 22,500 Pound Traffic Rated Top, Add	1,115.17 15.00	316.81

**33 05 81 Metallic Castings for Utility Structures** (33 05)

33 05 81 00-0001 Manhole Accessories (33 05 81)

33 05 81 00-0002 Steps For Cast-In-Place Manholes (33 05 81 00-0001)  
See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.

33 05 81 00-0003	EA	Cast Iron Manhole Step For New Manholes .....	101.93
33 05 81 00-0004	EA	Galvanized Steel Manhole Step For New Manholes.....	68.04
33 05 81 00-0005	EA	Aluminum Manhole Step For New Manholes.....	95.88

33 05 81 00-0006 Manhole Covers And Frames (33 05 81)

Note: Includes moisture-tight masonry joints and waterproof grouting.

33 05 81 00-0007 Regular Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0008	EA	18" Square, Gray Iron, Manhole Cover With Frame .....	2,374.15	89.73
		For Ductile Iron Castings, Add	1,472.02	
33 05 81 00-0009	EA	18" Diameter, Gray Iron, Manhole Cover With Frame .....	1,292.00	89.73
		For Ductile Iron Castings, Add	714.51	
33 05 81 00-0010	EA	24" Diameter, Gray Iron, Manhole Cover With Frame .....	1,493.20	104.34
		For Ductile Iron Castings, Add	826.13	
33 05 81 00-0011	EA	24" Square, Gray Iron, Manhole Cover With Frame .....	2,398.35	115.81
		For Ductile Iron Castings, Add	1,435.40	
33 05 81 00-0012	EA	26" Diameter, Gray Iron, Manhole Cover With Frame .....	2,003.86	125.20
		For Ductile Iron Castings, Add	1,138.73	
33 05 81 00-0013	EA	30" Diameter, Gray Iron, Manhole Cover With Frame .....	2,091.33	130.42
		For Ductile Iron Castings, Add	1,190.06	

33 05 81 00-0014 Watertight Type Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0015	EA	20" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	2,616.98	74.08
		For Ductile Iron Castings, Add	1,625.48	
33 05 81 00-0016	EA	22" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	2,648.87	74.08
		For Ductile Iron Castings, Add	1,630.80	
33 05 81 00-0017	EA	24" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	2,692.87	86.60
		For Ductile Iron Castings, Add	1,641.56	
33 05 81 00-0018	EA	26" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	3,220.90	97.03
		For Ductile Iron Castings, Add	1,990.65	
33 05 81 00-0019	EA	30" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	3,748.39	99.12
		For Ductile Iron Castings, Add	2,350.01	
33 05 81 00-0020	EA	32" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	3,951.11	101.21
		For Ductile Iron Castings, Add	2,488.32	
33 05 81 00-0021	EA	36" Diameter, Gray Iron, Watertight Manhole Cover With Frame .....	4,132.47	104.34
		For Ductile Iron Castings, Add	2,611.55	

33 05 81 00-0022 Aluminum Manhole Covers And Frames (33 05 81 00-0006)

33 05 81 00-0023	EA	12" Square Aluminum Manhole Cover With Frame .....	1,187.70	31.59
33 05 81 00-0024	EA	18" Square Aluminum Manhole Cover With Frame .....	2,181.84	34.97
33 05 81 00-0025	EA	24" Square Aluminum Manhole Cover With Frame .....	3,133.87	40.61

33 05 81 00-0026 Removal And Reinstallation Of Manhole Cover And Frame (33 05 81 00-0006)

Note: Includes surrounding asphalt removal and repair. Excludes saw cutting.

33 05 81 00-0027	EA	Removal And Reinstallation Of Manhole Cover And Frame .....	418.32
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**33 05 83 Non-Metallic Accessories for Utility Structures** (33 05)

33 05 83 00-0001 Manhole Accessories (33 05 83)

**33 Utilities****33 05 Common Work Results for Utilities****33 05 83 Non-Metallic Accessories for Utility Structures**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 83 00-0002			<b>Steps For Cast-In-Place Manholes</b> (33 05 83 00-0001) See CSI section 33 01 30 81-0037 for installation of steps in existing manholes.		
33 05 83 00-0003	EA		Polypropylene Manhole Step For New Manholes .....	52.00	
33 05 83 00-0004			<b>Rainguard Inflow Protectors</b> (33 05 83)		
33 05 83 00-0005	EA		18" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	134.06	21.60
33 05 83 00-0006	EA		22" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	157.40	21.60
33 05 83 00-0007	EA		24" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	188.14	25.93
33 05 83 00-0008	EA		26" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	202.89	25.93
33 05 83 00-0009	EA		30" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	253.03	30.25
33 05 83 00-0010	EA		32" Diameter Acrylonitrile Butadiene Styrene (ABS) Rainguard Inflow Protectors.....	271.15	30.25
<b>33 05 84</b>			<b>Accessories for Utility Structures</b> (33 05) See CSI section 22 13 19 26-0044 for oil interceptors, 22 13 23 00-0000 for sediment interceptors, 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 05 84 00-0001			<b>Manhole Accessories</b> (33 05 84)		
33 05 84 00-0002			<b>Precast Concrete Manhole Tops</b> (33 05 84 00-0001)		
33 05 84 00-0003			<b>Precast Concrete Manhole Slab Tops</b> (33 05 84 00-0002)		
33 05 84 00-0004	EA		3' Diameter x 8" Thick Precast Manhole Top Slab .....	591.56	78.25
33 05 84 00-0005	EA		4' Diameter x 8" Thick Precast Manhole Top Slab .....	834.08	84.51
33 05 84 00-0006	EA		5' Diameter x 8" Thick Precast Manhole Top Slab .....	1,135.23	90.78
33 05 84 00-0007	EA		6' Diameter x 8" Thick Precast Manhole Top Slab .....	1,362.46	97.03
33 05 84 00-0008			<b>Precast Concrete Manhole Cone Tops</b> (33 05 84 00-0002)		
33 05 84 00-0009	EA		3' Diameter x 8" Thick Precast Manhole Top Cone.....	948.36	97.82
33 05 84 00-0010	EA		3'-6" Diameter x 8" Thick Precast Manhole Top Cone .....	1,056.85	101.73
33 05 84 00-0011	EA		4' Diameter x 8" Thick Precast Manhole Top Cone.....	1,165.37	105.64
33 05 84 00-0012	EA		5' Diameter x 8" Thick Precast Manhole Top Cone.....	1,377.13	112.16
33 05 84 00-0013	EA		6' Diameter x 8" Thick Precast Manhole Top Cone.....	1,594.15	119.99
33 05 84 00-0014	EA		7' Diameter x 8" Thick Precast Manhole Top Cone.....	2,543.26	127.82
33 05 84 00-0015	EA		8' Diameter x 10" Thick Precast Manhole Top Cone.....	3,199.52	140.85
33 05 84 00-0016			<b>Precast Concrete Manhole Reducer Slabs</b> (33 05 84 00-0002)		
33 05 84 00-0017	EA		5' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....	1,288.85	90.78
33 05 84 00-0018	EA		6' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....	1,668.30	97.03
33 05 84 00-0019	EA		7' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....	2,216.14	97.03
33 05 84 00-0020	EA		8' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....	3,532.46	97.03
33 05 84 00-0021	EA		10' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....	4,556.52	97.03
33 05 84 00-0022	EA		12' Diameter To 4' Diameter, Precast Concrete Manhole Reducer Slab .....	6,618.68	97.03
33 05 84 00-0023			<b>Pipe To Manhole Connector</b> (33 05 84 00-0001)		
33 05 84 00-0024			<b>Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connectors</b> (33 05 84 00-0023)		
33 05 84 00-0025	EA		4" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	145.11	
33 05 84 00-0026	EA		6" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	226.88	
33 05 84 00-0027	EA		8" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	255.12	
33 05 84 00-0028	EA		10" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	406.50	
33 05 84 00-0029	EA		12" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	576.55	
33 05 84 00-0030	EA		15" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	755.25	
33 05 84 00-0031	EA		18" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,408.70	
33 05 84 00-0032	EA		21" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	1,967.98	
33 05 84 00-0033	EA		24" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	3,161.68	
33 05 84 00-0034	EA		27" Ethylene Propylene Diene Monomer (EPDM) Pipe To Manhole Boot Connector.....	3,705.27	
33 05 84 00-0035			<b>Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout</b> (33 05 84 00-0023) Note: Fernco CMA.		
33 05 84 00-0036	EA		4" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	110.13	
33 05 84 00-0037	EA		6" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	153.31	
33 05 84 00-0038	EA		8" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	193.83	
33 05 84 00-0039	EA		10" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	234.14	
33 05 84 00-0040	EA		12" Elastomeric Polyvinyl Chloride (PVC) Flexible Manhole Adapter And Grout.....	271.55	
33 05 84 00-0041			<b>Brick And Grout Pipe To Manhole Connector</b> (33 05 84 00-0023)		
33 05 84 00-0042	EA		Seal Gap Between Pipe And Structure With Brick And Grout.....	287.70	
33 05 84 00-0043			<b>Inverts For Manholes</b> (33 05 84 00-0001)		
33 05 84 00-0044	EA		Single Channel Concrete Invert For Manholes .....	475.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 05 84 00-0045 EA Double Channel Concrete Invert For Manholes.....	681.57	
33 05 84 00-0046 EA Triple Channel Concrete Invert For Manholes.....	919.58	
33 05 84 00-0047 EA Quad Channel Concrete Invert For Manholes.....	1,157.52	
33 05 84 00-0048 EA Single Channel Brick Invert For Manholes.....	677.82	
33 05 84 00-0049 EA Double Channel Brick Invert For Manholes.....	1,014.58	
33 05 84 00-0050 EA Triple Channel Brick Invert For Manholes.....	1,357.10	
33 05 84 00-0051 EA Quad Channel Brick Invert For Manholes.....	1,695.94	
<b>33 05 84 00-0052 Protective Coating For New Manholes</b> (33 05 84 00-0001)		
<b>33 05 84 00-0053 Polyurethane Protective Coating For New Manholes</b> (33 05 84 00-0052)		
33 05 84 00-0054 VLF 60 Mil Polyurethane Coating Of 3' Diameter Manhole Interior.....	220.02	
For 80 Mil Material, Add	32.26	
For 100 Mil Material, Add	64.51	
For 125 Mil Material, Add	101.65	
For 150 Mil Material, Add	139.19	
For 200 Mil Material, Add	205.92	
For 2 To 5 Manholes, Deduct	-14.98	
For 6 To 10 Manholes, Deduct	-24.45	
For >10 Manholes, Deduct	-48.91	
33 05 84 00-0055 VLF 60 Mil Polyurethane Coating Of 3-1/2' Diameter Manhole Interior.....	265.58	
For 80 Mil Material, Add	38.32	
For 100 Mil Material, Add	76.63	
For 125 Mil Material, Add	120.89	
For 150 Mil Material, Add	165.14	
For 200 Mil Material, Add	243.92	
For 2 To 5 Manholes, Deduct	-18.14	
For 6 To 10 Manholes, Deduct	-29.64	
For >10 Manholes, Deduct	-59.27	
33 05 84 00-0056 VLF 60 Mil Polyurethane Coating Of 4' Diameter Manhole Interior.....	293.35	
For 80 Mil Material, Add	43.01	
For 100 Mil Material, Add	86.02	
For 125 Mil Material, Add	135.80	
For 150 Mil Material, Add	185.59	
For 200 Mil Material, Add	274.56	
For 2 To 5 Manholes, Deduct	-19.97	
For 6 To 10 Manholes, Deduct	-32.60	
For >10 Manholes, Deduct	-65.21	
33 05 84 00-0057 VLF 60 Mil Polyurethane Coating Of 5' Diameter Manhole Interior.....	366.75	
For 80 Mil Material, Add	53.78	
For 100 Mil Material, Add	107.56	
For 125 Mil Material, Add	169.82	
For 150 Mil Material, Add	232.08	
For 200 Mil Material, Add	343.34	
For 2 To 5 Manholes, Deduct	-24.96	
For 6 To 10 Manholes, Deduct	-40.76	
For >10 Manholes, Deduct	-81.52	
33 05 84 00-0058 VLF 60 Mil Polyurethane Coating Of 6' Diameter Manhole Interior.....	425.95	
For 80 Mil Material, Add	63.47	
For 100 Mil Material, Add	126.95	
For 125 Mil Material, Add	200.59	
For 150 Mil Material, Add	274.23	
For 200 Mil Material, Add	406.32	
For 2 To 5 Manholes, Deduct	-28.90	
For 6 To 10 Manholes, Deduct	-47.14	
For >10 Manholes, Deduct	-94.28	
<b>33 05 84 00-0059 Polyvinyl Chloride (PVC) Liner</b> (33 05 84 00-0052)		
Note: For new manholes and shop applied.		
33 05 84 00-0060 VLF 3' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	286.75	
33 05 84 00-0061 VLF 3-1/2' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	351.50	
33 05 84 00-0062 VLF 4' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	428.96	
33 05 84 00-0063 VLF 5' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	538.69	
33 05 84 00-0064 VLF 6' Diameter Polyvinyl Chloride (PVC) Liner For New Manhole.....	648.42	
33 05 84 00-0065 SF Polyvinyl Chloride (PVC) Liner At Structures.....	90.04	
<b>33 05 84 00-0066 Concrete Grade Extensions/Grade Rings</b> (33 05 84 00-0001)		
<b>33 05 84 00-0067 18" Diameter, Concrete Grade Extensions/Grade Rings</b> (33 05 84 00-0066)		
33 05 84 00-0068 EA 4" Rise, 18" Diameter, Concrete Grade Extensions/Grade Rings.....	89.07	
33 05 84 00-0069 EA 6" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	97.50	
33 05 84 00-0070 EA 8" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	105.92	
33 05 84 00-0071 EA 10" Rise, 18" Diameter, Concrete Grade Extensions/Grade Ring.....	114.35	
<b>33 05 84 00-0072 24" Diameter, Concrete Grade Extensions/Grade Rings</b> (33 05 84 00-0066)		
33 05 84 00-0073 EA 4" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	100.04	
33 05 84 00-0074 EA 6" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	109.61	
33 05 84 00-0075 EA 8" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	119.19	
33 05 84 00-0076 EA 10" Rise, 24" Diameter, Concrete Grade Extensions/Grade Ring.....	128.76	

**33 Utilities****33 05 Common Work Results for Utilities****33 05 84 Accessories for Utility Structures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 05 84 00-0077</b> 30" Diameter, Concrete Grade Extensions/Grade Rings <small>(33 05 84 00-0066)</small>		
33 05 84 00-0078 EA 4" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring .....	110.77	
33 05 84 00-0079 EA 6" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring .....	121.44	
33 05 84 00-0080 EA 8" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring .....	132.12	
33 05 84 00-0081 EA 10" Rise, 30" Diameter, Concrete Grade Extensions/Grade Ring .....	142.79	
<b>33 05 84 00-0082</b> Bentonite Collar <small>(33 05 84 00-0001)</small>		
<b>33 05 84 00-0083</b> Bentonite Collar At Manhole Connections <small>(33 05 84 00-0082)</small>		
33 05 84 00-0084 EA Up To 12" Pipe, Bentonite Collar At Manhole Connection .....	180.49	
33 05 84 00-0085 EA >12" To 21", Bentonite Collar At Manhole Connection .....	286.16	
33 05 84 00-0086 EA >21" To 30" Pipe, Bentonite Collar At Manhole Connection .....	455.87	
33 05 84 00-0087 EA >30" To 36" Pipe, Bentonite Collar At Manhole Connection .....	1,068.31	
33 05 84 00-0088 EA >36" To 48" Pipe, Bentonite Collar At Manhole Connection .....	1,650.66	
33 05 84 00-0089 EA >48" To 60" Pipe, Bentonite Collar At Manhole Connection .....	2,992.76	
<b>33 05 84 00-0090</b> Waste Water Collection System Taps <small>(33 05 84)</small>		
Note: For tapping existing structures only. Includes grout.		
<b>33 05 84 00-0091</b> Brick Manhole Taps <small>(33 05 84 00-0090)</small>		
33 05 84 00-0092 EA 4" Tap In 6" Brick Manhole .....	541.26	
33 05 84 00-0093 EA 6" Tap In 6" Brick Manhole .....	604.11	
33 05 84 00-0094 EA 8" Tap In 6" Brick Manhole .....	665.84	
33 05 84 00-0095 EA 10" Tap In 6" Brick Manhole .....	727.45	
33 05 84 00-0096 EA 12" Tap In 6" Brick Manhole .....	803.63	
33 05 84 00-0097 EA 15" Tap In 6" Brick Manhole .....	865.11	
<b>33 05 84 00-0098</b> Precast Concrete Manhole Tap <small>(33 05 84 00-0090)</small>		
33 05 84 00-0099 EA 4" Tap In Existing Precast Concrete Manhole.....	787.88	
33 05 84 00-0100 EA 6" Tap In Existing Precast Concrete Manhole.....	882.16	
33 05 84 00-0101 EA 8" Tap In Existing Precast Concrete Manhole.....	987.18	
33 05 84 00-0102 EA 10" Tap In Existing Precast Concrete Manhole.....	1,079.59	
33 05 84 00-0103 EA 12" Tap In Existing Precast Concrete Manhole.....	1,171.83	
33 05 84 00-0104 EA 15" Tap In Existing Precast Concrete Manhole.....	1,266.30	
33 05 84 00-0105 EA 18" Tap In Existing Precast Concrete Manhole.....	1,460.16	
33 05 84 00-0106 EA 24" Tap In Existing Precast Concrete Manhole.....	1,878.76	
<b>33 05 97 Identification and Signage for Utilities</b> <small>(33 05)</small>		
<b>33 05 97 23 Utility Identification Warning Tape</b> <small>(33 05 97)</small>		
<b>33 05 97 23-0001</b> Non-Detectable Utility Warning Tape <small>(33 05 97 23)</small>		
Note: Labor installation is included with pipe and excavation..		
33 05 97 23-0002 CLF 3" Non-Detectable Utility Warning Tape .....	7.79	
33 05 97 23-0003 CLF 6" Non-Detectable Utility Warning Tape .....	11.09	
<b>33 05 97 23-0004</b> Detectable Utility Warning Tape <small>(33 05 97 23)</small>		
Note: Labor installation is included with pipe and excavation..		
33 05 97 23-0005 CLF 2" Detectable Utility Warning Tape .....	7.94	
33 05 97 23-0006 CLF 3" Detectable Utility Warning Tape .....	10.94	
33 05 97 23-0007 CLF 6" Detectable Utility Warning Tape .....	17.70	
<b>33 10 Water Utilities</b> <small>(33)</small>		
<b>33 11 Groundwater Sources</b> <small>(33 10)</small>		
<b>33 11 13 Potable Water Supply Wells</b> <small>(33 11)</small>		
<b>33 11 13 00-0001</b> Drill And Test Water Well <small>(33 11 13)</small>		
<b>33 11 13 00-0002</b> Drill Hole <small>(33 11 13 00-0001)</small>		
Note: Excludes loading and hauling of spoils.		
<b>33 11 13 00-0003</b> Mobilization And Demobilization <small>(33 11 13 00-0002)</small>		
33 11 13 00-0004 EA Up To 12" Diameter, Well Drilling Mobilization And Demobilization.....	1,057.88	
33 11 13 00-0005 EA >12" To 24" Diameter, Well Drilling Mobilization And Demobilization .....	1,289.09	
33 11 13 00-0006 EA >24" To 36" Diameter, Well Drilling Mobilization And Demobilization .....	1,933.64	
<b>33 11 13 00-0007</b> Drill Hole In Normal Soil, Sand, Gravel, O.B. <small>(33 11 13 00-0002)</small>		
Note: Excludes well casing, gravel or materials.		





	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Groundwater Sources</b>	<b>33 11</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0008 LF Up To 6" Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	24.98	
For >100 To 250, Add	0.62	
For >250 To 400, Add	1.25	
For >400 To 600, Add	1.87	
For >600 To 750, Add	2.50	
For >750, Add	3.12	
33 11 13 00-0009 LF 8" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	29.65	
For >100 To 250, Add	0.74	
For >250 To 400, Add	1.48	
For >400 To 600, Add	2.22	
For >600 To 750, Add	2.97	
For >750, Add	3.71	
33 11 13 00-0010 LF 10" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	39.64	
For >100 To 250, Add	0.99	
For >250 To 400, Add	1.98	
For >400 To 600, Add	2.97	
For >600 To 750, Add	3.96	
For >750, Add	4.96	
33 11 13 00-0011 LF 12" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	62.04	
For >100 To 250, Add	1.55	
For >250 To 400, Add	3.10	
For >400 To 600, Add	4.65	
For >600 To 750, Add	6.20	
For >750, Add	7.76	
33 11 13 00-0012 LF 14" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	89.27	
For >100 To 250, Add	2.23	
For >250 To 400, Add	4.46	
For >400 To 600, Add	6.70	
For >600 To 750, Add	8.93	
For >750, Add	11.16	
33 11 13 00-0013 LF 16" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	116.66	
For >100 To 250, Add	2.92	
For >250 To 400, Add	5.83	
For >400 To 600, Add	8.75	
For >600 To 750, Add	11.67	
For >750, Add	14.58	
33 11 13 00-0014 LF 18" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	138.58	
For >100 To 250, Add	3.46	
For >250 To 400, Add	6.93	
For >400 To 600, Add	10.39	
For >600 To 750, Add	13.86	
For >750, Add	17.32	
33 11 13 00-0015 LF 20" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	161.14	
For >100 To 250, Add	4.03	
For >250 To 400, Add	8.06	
For >400 To 600, Add	12.09	
For >600 To 750, Add	16.11	
For >750, Add	20.14	
33 11 13 00-0016 LF 22" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	189.33	
For >100 To 250, Add	4.73	
For >250 To 400, Add	9.47	
For >400 To 600, Add	14.20	
For >600 To 750, Add	18.93	
For >750, Add	23.67	
33 11 13 00-0017 LF 24" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	223.18	
For >100 To 250, Add	5.58	
For >250 To 400, Add	11.16	
For >400 To 600, Add	16.74	
For >600 To 750, Add	22.32	
For >750, Add	27.90	
33 11 13 00-0018 LF 26" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	241.22	
For >100 To 250, Add	6.03	
For >250 To 400, Add	12.06	
For >400 To 600, Add	18.09	
For >600 To 750, Add	24.12	
For >750, Add	30.15	
33 11 13 00-0019 LF 28" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	265.39	
For >100 To 250, Add	6.63	
For >250 To 400, Add	13.27	
For >400 To 600, Add	19.90	
For >600 To 750, Add	26.54	
For >750, Add	33.17	
33 11 13 00-0020 LF 30" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	290.69	
For >100 To 250, Add	7.27	
For >250 To 400, Add	14.53	
For >400 To 600, Add	21.80	
For >600 To 750, Add	29.07	
For >750, Add	36.34	
33 11 13 00-0021 LF 36" Water Well Hole Drilled In Normal Soil, Sand, Gravel, O.B.....	361.59	
For >100 To 250, Add	9.04	
For >250 To 400, Add	18.08	
For >400 To 600, Add	27.12	
For >600 To 750, Add	36.16	
For >750, Add	45.20	

<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 11</b>	<b>Groundwater Sources</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0022			<b>Drill Hole In Sedimentary Rock</b> <small>(33 11 13 00-0002)</small>		
33 11 13 00-0023	LF		6" Water Well Hole Drilled In Sedimentary Rock .....	50.92	
			For>100 To 250, Add .....	1.27	
			For>250 To 400, Add .....	2.55	
			For>400 To 600, Add .....	3.82	
			For>600 To 750, Add .....	5.09	
			For>750, Add .....	6.37	
33 11 13 00-0024	LF		8" Water Well Hole Drilled In Sedimentary Rock .....	59.30	
			For>100 To 250, Add .....	1.48	
			For>250 To 400, Add .....	2.97	
			For>400 To 600, Add .....	4.45	
			For>600 To 750, Add .....	5.93	
			For>750, Add .....	7.41	
33 11 13 00-0025	LF		10" Water Well Hole Drilled In Sedimentary Rock .....	94.95	
			For>100 To 250, Add .....	2.37	
			For>250 To 400, Add .....	4.75	
			For>400 To 600, Add .....	7.12	
			For>600 To 750, Add .....	9.50	
			For>750, Add .....	11.87	
33 11 13 00-0026	LF		12" Water Well Hole Drilled In Sedimentary Rock .....	124.14	
			For>100 To 250, Add .....	3.10	
			For>250 To 400, Add .....	6.21	
			For>400 To 600, Add .....	9.31	
			For>600 To 750, Add .....	12.41	
			For>750, Add .....	15.52	
33 11 13 00-0027	LF		14" Water Well Hole Drilled In Sedimentary Rock .....	178.67	
			For>100 To 250, Add .....	4.47	
			For>250 To 400, Add .....	8.93	
			For>400 To 600, Add .....	13.40	
			For>600 To 750, Add .....	17.87	
			For>750, Add .....	22.33	
33 11 13 00-0028	LF		16" Water Well Hole Drilled In Sedimentary Rock .....	233.20	
			For>100 To 250, Add .....	5.83	
			For>250 To 400, Add .....	11.66	
			For>400 To 600, Add .....	17.49	
			For>600 To 750, Add .....	23.32	
			For>750, Add .....	29.15	
33 11 13 00-0029	LF		18" Water Well Hole Drilled In Sedimentary Rock .....	277.28	
			For>100 To 250, Add .....	6.93	
			For>250 To 400, Add .....	13.86	
			For>400 To 600, Add .....	20.80	
			For>600 To 750, Add .....	27.73	
			For>750, Add .....	34.66	
33 11 13 00-0030	LF		20" Water Well Hole Drilled In Sedimentary Rock .....	321.76	
			For>100 To 250, Add .....	8.04	
			For>250 To 400, Add .....	16.09	
			For>400 To 600, Add .....	24.13	
			For>600 To 750, Add .....	32.18	
			For>750, Add .....	40.22	
33 11 13 00-0031	LF		22" Water Well Hole Drilled In Sedimentary Rock .....	378.99	
			For>100 To 250, Add .....	9.47	
			For>250 To 400, Add .....	18.95	
			For>400 To 600, Add .....	28.42	
			For>600 To 750, Add .....	37.90	
			For>750, Add .....	47.37	
33 11 13 00-0032	LF		24" Water Well Hole Drilled In Sedimentary Rock .....	437.78	
			For>100 To 250, Add .....	10.94	
			For>250 To 400, Add .....	21.89	
			For>400 To 600, Add .....	32.83	
			For>600 To 750, Add .....	43.78	
			For>750, Add .....	54.72	
33 11 13 00-0033	LF		26" Water Well Hole Drilled In Sedimentary Rock .....	482.45	
			For>100 To 250, Add .....	12.06	
			For>250 To 400, Add .....	24.12	
			For>400 To 600, Add .....	36.18	
			For>600 To 750, Add .....	48.25	
			For>750, Add .....	60.31	
33 11 13 00-0034	LF		28" Water Well Hole Drilled In Sedimentary Rock .....	530.79	
			For>100 To 250, Add .....	13.27	
			For>250 To 400, Add .....	26.54	
			For>400 To 600, Add .....	39.81	
			For>600 To 750, Add .....	53.08	
			For>750, Add .....	66.35	
33 11 13 00-0035	LF		30" Water Well Hole Drilled In Sedimentary Rock .....	581.38	
			For>100 To 250, Add .....	14.53	
			For>250 To 400, Add .....	29.07	
			For>400 To 600, Add .....	43.60	
			For>600 To 750, Add .....	58.14	
			For>750, Add .....	72.67	
33 11 13 00-0036	LF		36" Water Well Hole Drilled In Sedimentary Rock .....	723.18	
			For>100 To 250, Add .....	18.08	
			For>250 To 400, Add .....	36.16	
			For>400 To 600, Add .....	54.24	
			For>600 To 750, Add .....	72.32	
			For>750, Add .....	90.40	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 11 13 00-0037</b> <b>Drill Hole In Crystalline Rock</b> <small>(33 11 13 00-0002)</small>		
33 11 13 00-0038    LF    6" Water Well Hole Drilled In Crystalline Rock.....	104.73	
<i>For &gt;100 To 250, Add</i>	2.62	
<i>For &gt;250 To 400, Add</i>	5.24	
<i>For &gt;400 To 600, Add</i>	7.85	
<i>For &gt;600 To 750, Add</i>	10.47	
<i>For &gt;750, Add</i>	13.09	
33 11 13 00-0039    LF    8" Water Well Hole Drilled In Crystalline Rock.....	120.86	
<i>For &gt;100 To 250, Add</i>	3.02	
<i>For &gt;250 To 400, Add</i>	6.04	
<i>For &gt;400 To 600, Add</i>	9.06	
<i>For &gt;600 To 750, Add</i>	12.09	
<i>For &gt;750, Add</i>	15.11	
33 11 13 00-0040    LF    10" Water Well Hole Drilled In Crystalline Rock.....	138.58	
<i>For &gt;100 To 250, Add</i>	3.46	
<i>For &gt;250 To 400, Add</i>	6.93	
<i>For &gt;400 To 600, Add</i>	10.39	
<i>For &gt;600 To 750, Add</i>	13.86	
<i>For &gt;750, Add</i>	17.32	
33 11 13 00-0041    LF    12" Water Well Hole Drilled In Crystalline Rock.....	175.64	
<i>For &gt;100 To 250, Add</i>	4.39	
<i>For &gt;250 To 400, Add</i>	8.78	
<i>For &gt;400 To 600, Add</i>	13.17	
<i>For &gt;600 To 750, Add</i>	17.56	
<i>For &gt;750, Add</i>	21.96	
33 11 13 00-0042    LF    14" Water Well Hole Drilled In Crystalline Rock.....	227.20	
<i>For &gt;100 To 250, Add</i>	5.68	
<i>For &gt;250 To 400, Add</i>	11.36	
<i>For &gt;400 To 600, Add</i>	17.04	
<i>For &gt;600 To 750, Add</i>	22.72	
<i>For &gt;750, Add</i>	28.40	
33 11 13 00-0043    LF    16" Water Well Hole Drilled In Crystalline Rock.....	330.33	
<i>For &gt;100 To 250, Add</i>	8.26	
<i>For &gt;250 To 400, Add</i>	16.52	
<i>For &gt;400 To 600, Add</i>	24.77	
<i>For &gt;600 To 750, Add</i>	33.03	
<i>For &gt;750, Add</i>	41.29	
33 11 13 00-0044    LF    18" Water Well Hole Drilled In Crystalline Rock.....	393.17	
<i>For &gt;100 To 250, Add</i>	9.83	
<i>For &gt;250 To 400, Add</i>	19.66	
<i>For &gt;400 To 600, Add</i>	29.49	
<i>For &gt;600 To 750, Add</i>	39.32	
<i>For &gt;750, Add</i>	49.15	
33 11 13 00-0045    LF    20" Water Well Hole Drilled In Crystalline Rock.....	456.02	
<i>For &gt;100 To 250, Add</i>	11.40	
<i>For &gt;250 To 400, Add</i>	22.80	
<i>For &gt;400 To 600, Add</i>	34.20	
<i>For &gt;600 To 750, Add</i>	45.60	
<i>For &gt;750, Add</i>	57.00	
33 11 13 00-0046    LF    22" Water Well Hole Drilled In Crystalline Rock.....	536.58	
<i>For &gt;100 To 250, Add</i>	13.41	
<i>For &gt;250 To 400, Add</i>	26.83	
<i>For &gt;400 To 600, Add</i>	40.24	
<i>For &gt;600 To 750, Add</i>	53.66	
<i>For &gt;750, Add</i>	67.07	
33 11 13 00-0047    LF    24" Water Well Hole Drilled In Crystalline Rock.....	620.38	
<i>For &gt;100 To 250, Add</i>	15.51	
<i>For &gt;250 To 400, Add</i>	31.02	
<i>For &gt;400 To 600, Add</i>	46.53	
<i>For &gt;600 To 750, Add</i>	62.04	
<i>For &gt;750, Add</i>	77.55	
<b>33 11 13 00-0048</b> <b>Furnish And Install Casing</b> <small>(33 11 13 00-0001)</small>		
Note: Excludes drilling of hole.		
<b>33 11 13 00-0049</b> <b>Steel Well Casing</b> <small>(33 11 13 00-0048)</small>		
33 11 13 00-0050    LF    6" Diameter, Steel Well Casing, Flush .....	46.75	
<i>For &gt;100 To 250, Deduct</i>	-1.38	
<i>For &gt;250 To 400, Deduct</i>	-2.55	
<i>For &gt;400 To 600, Deduct</i>	-3.82	
<i>For &gt;600 To 750, Deduct</i>	-5.10	
<i>For &gt;750, Deduct</i>	-6.64	
33 11 13 00-0051    LF    8" Diameter, Steel Well Casing, Flush .....	58.11	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 400, Deduct</i>	-3.17	
<i>For &gt;400 To 600, Deduct</i>	-4.75	
<i>For &gt;600 To 750, Deduct</i>	-6.34	
<i>For &gt;750, Deduct</i>	-8.27	

<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 11</b>	<b>Groundwater Sources</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0052 LF 10" Diameter, Steel Well Casing, Flush .....	86.49	
For>100 To 250, Deduct	-2.48	
For>250 To 400, Deduct	-4.64	
For>400 To 600, Deduct	-6.96	
For>600 To 750, Deduct	-9.28	
For>750, Deduct	-12.01	
33 11 13 00-0053 LF 12" Diameter, Steel Well Casing, Flush .....	146.00	
For>100 To 250, Deduct	-4.03	
For>250 To 400, Deduct	-7.68	
For>400 To 600, Deduct	-11.52	
For>600 To 750, Deduct	-15.36	
For>750, Deduct	-19.69	
33 11 13 00-0054 LF 14" Diameter, Steel Well Casing, Flush .....	163.14	
For>100 To 250, Deduct	-4.61	
For>250 To 400, Deduct	-8.68	
For>400 To 600, Deduct	-13.03	
For>600 To 750, Deduct	-17.37	
For>750, Deduct	-22.39	
33 11 13 00-0055 LF 16" Diameter, Steel Well Casing, Flush .....	191.33	
For>100 To 250, Deduct	-5.44	
For>250 To 400, Deduct	-10.22	
For>400 To 600, Deduct	-15.33	
For>600 To 750, Deduct	-20.44	
For>750, Deduct	-26.40	
33 11 13 00-0056 LF 18" Diameter, Steel Well Casing, Flush .....	217.85	
For>100 To 250, Deduct	-6.27	
For>250 To 400, Deduct	-11.71	
For>400 To 600, Deduct	-17.57	
For>600 To 750, Deduct	-23.43	
For>750, Deduct	-30.35	
33 11 13 00-0057 LF 20" Diameter, Steel Well Casing, Flush .....	247.93	
For>100 To 250, Deduct	-7.21	
For>250 To 400, Deduct	-13.41	
For>400 To 600, Deduct	-20.11	
For>600 To 750, Deduct	-26.82	
For>750, Deduct	-34.84	
33 11 13 00-0058 LF 24" Diameter, Steel Well Casing, Flush .....	290.02	
For>100 To 250, Deduct	-8.39	
For>250 To 400, Deduct	-15.64	
For>400 To 600, Deduct	-23.46	
For>600 To 750, Deduct	-31.28	
For>750, Deduct	-40.58	
33 11 13 00-0059 LB Steel Well Casing, Furnish And Install .....	1.47	
For>100 To 250, Deduct	-0.05	
For>250 To 400, Deduct	-0.09	
For>400 To 600, Deduct	-0.13	
For>600 To 750, Deduct	-0.18	
For>750, Deduct	-0.24	
<b>33 11 13 00-0060 Stainless Steel Well Casing, Flush Threaded</b> (33 11 13 00-0048)		
33 11 13 00-0061 LF 6" Diameter, Stainless Steel Well Casing, Flush .....	104.97	
For>100 To 250, Deduct	-2.84	
For>250 To 400, Deduct	-5.46	
For>400 To 600, Deduct	-8.19	
For>600 To 750, Deduct	-10.92	
For>750, Deduct	-13.92	
33 11 13 00-0062 LF 8" Diameter, Stainless Steel Well Casing, Flush .....	158.35	
For>100 To 250, Deduct	-4.22	
For>250 To 400, Deduct	-8.18	
For>400 To 600, Deduct	-12.27	
For>600 To 750, Deduct	-16.36	
For>750, Deduct	-20.80	
33 11 13 00-0063 LF 10" Diameter, Stainless Steel Well Casing, Flush .....	221.65	
For>100 To 250, Deduct	-5.88	
For>250 To 400, Deduct	-11.42	
For>400 To 600, Deduct	-17.13	
For>600 To 750, Deduct	-22.84	
For>750, Deduct	-28.99	
33 11 13 00-0064 LF 12" Diameter, Stainless Steel Well Casing, Flush .....	257.65	
For>100 To 250, Deduct	-6.84	
For>250 To 400, Deduct	-13.28	
For>400 To 600, Deduct	-19.92	
For>600 To 750, Deduct	-26.57	
For>750, Deduct	-33.73	
<b>33 11 13 00-0065 Stainless Steel Well Casing, Welded Ring</b> (33 11 13 00-0048)		
33 11 13 00-0066 LF 10" Diameter, Stainless Steel Well Casing, Welded .....	231.76	
For>100 To 250, Deduct	-6.38	
For>250 To 400, Deduct	-12.18	
For>400 To 600, Deduct	-18.27	
For>600 To 750, Deduct	-24.36	
For>750, Deduct	-31.21	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0067 LF 12" Diameter, Stainless Steel Well Casing, Welded .....	268.62	
For >100 To 250, Deduct	-7.39	
For >250 To 400, Deduct	-14.11	
For >400 To 600, Deduct	-21.16	
For >600 To 750, Deduct	-28.21	
For >750, Deduct	-36.14	
33 11 13 00-0068 LF 14" Diameter, Stainless Steel Well Casing, Welded .....	323.51	
For >100 To 250, Deduct	-8.85	
For >250 To 400, Deduct	-16.93	
For >400 To 600, Deduct	-25.40	
For >600 To 750, Deduct	-33.87	
For >750, Deduct	-43.32	
33 11 13 00-0069 LF 16" Diameter, Stainless Steel Well Casing, Welded .....	370.50	
For >100 To 250, Deduct	-10.13	
For >250 To 400, Deduct	-19.39	
For >400 To 600, Deduct	-29.08	
For >600 To 750, Deduct	-38.78	
For >750, Deduct	-49.60	
33 11 13 00-0070 LF 18" Diameter, Stainless Steel Well Casing, Welded .....	408.63	
For >100 To 250, Deduct	-11.21	
For >250 To 400, Deduct	-21.42	
For >400 To 600, Deduct	-32.13	
For >600 To 750, Deduct	-42.84	
For >750, Deduct	-54.84	
33 11 13 00-0071 LF 20" Diameter, Stainless Steel Well Casing, Welded .....	537.03	
For >100 To 250, Deduct	-14.61	
For >250 To 400, Deduct	-28.03	
For >400 To 600, Deduct	-42.05	
For >600 To 750, Deduct	-56.06	
For >750, Deduct	-71.61	
33 11 13 00-0072 LF 24" Diameter, Stainless Steel Well Casing, Welded .....	708.64	
For >100 To 250, Deduct	-19.19	
For >250 To 400, Deduct	-36.91	
For >400 To 600, Deduct	-55.36	
For >600 To 750, Deduct	-73.81	
For >750, Deduct	-94.19	
<b>33 11 13 00-0073 Polyvinyl Chloride (PVC) Well Casing, Schedule 80</b> <small>(33 11 13 00-0048)</small>		
33 11 13 00-0074 LF 6" Polyvinyl Chloride (PVC) Well Casing .....	88.33	
For >100 To 250, Deduct	-2.38	
For >250 To 400, Deduct	-4.59	
For >400 To 600, Deduct	-6.88	
For >600 To 750, Deduct	-9.17	
For >750, Deduct	-11.68	
33 11 13 00-0075 LF 8" Polyvinyl Chloride (PVC) Well Casing .....	140.48	
For >100 To 250, Deduct	-3.78	
For >250 To 400, Deduct	-7.29	
For >400 To 600, Deduct	-10.93	
For >600 To 750, Deduct	-14.58	
For >750, Deduct	-18.56	
33 11 13 00-0076 LF 10" Polyvinyl Chloride (PVC) Well Casing .....	212.20	
For >100 To 250, Deduct	-5.71	
For >250 To 400, Deduct	-11.01	
For >400 To 600, Deduct	-16.52	
For >600 To 750, Deduct	-22.02	
For >750, Deduct	-28.05	
33 11 13 00-0077 LF 12" Polyvinyl Chloride (PVC) Well Casing .....	249.81	
For >100 To 250, Deduct	-6.73	
For >250 To 400, Deduct	-12.98	
For >400 To 600, Deduct	-19.46	
For >600 To 750, Deduct	-25.95	
For >750, Deduct	-33.07	
<b>33 11 13 00-0078 Furnish And Install Well Screen Assembly</b> <small>(33 11 13 00-0001)</small>		
<b>33 11 13 00-0079 Stainless Steel Well Screen</b> <small>(33 11 13 00-0078)</small>		
33 11 13 00-0080 LF 2" Stainless Steel Well Screen .....	30.50	1.69
For >100 To 250, Deduct	-0.98	
For >250 To 400, Deduct	-1.74	
For >400 To 600, Deduct	-2.61	
For >600 To 750, Deduct	-3.48	
For >750, Deduct	-4.63	
33 11 13 00-0081 LF 3" Stainless Steel Well Screen .....	50.00	1.69
For >100 To 250, Deduct	-1.48	
For >250 To 400, Deduct	-2.73	
For >400 To 600, Deduct	-4.10	
For >600 To 750, Deduct	-5.47	
For >750, Deduct	-7.14	
33 11 13 00-0082 LF 4" Stainless Steel Well Screen .....	62.79	2.53
For >100 To 250, Deduct	-1.87	
For >250 To 400, Deduct	-3.43	
For >400 To 600, Deduct	-5.15	
For >600 To 750, Deduct	-6.87	
For >750, Deduct	-8.97	

<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 11</b>	<b>Groundwater Sources</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0083 LF 5" Stainless Steel Well Screen.....	79.71	2.53
For>100 To 250, Deduct	-2.34	
For>250 To 400, Deduct	-4.34	
For>400 To 600, Deduct	-6.51	
For>600 To 750, Deduct	-8.67	
For>750, Deduct	-11.30	
33 11 13 00-0084 LF 6" Stainless Steel Well Screen.....	94.90	3.37
For>100 To 250, Deduct	-2.84	
For>250 To 400, Deduct	-5.21	
For>400 To 600, Deduct	-7.82	
For>600 To 750, Deduct	-10.43	
For>750, Deduct	-13.64	
33 11 13 00-0085 LF 8" Stainless Steel Well Screen.....	124.04	4.22
For>100 To 250, Deduct	-3.70	
For>250 To 400, Deduct	-6.80	
For>400 To 600, Deduct	-10.20	
For>600 To 750, Deduct	-13.60	
For>750, Deduct	-17.78	
33 11 13 00-0086 LF 10" Stainless Steel Well Screen.....	156.70	6.75
For>100 To 250, Deduct	-4.73	
For>250 To 400, Deduct	-8.64	
For>400 To 600, Deduct	-12.97	
For>600 To 750, Deduct	-17.29	
For>750, Deduct	-22.66	
33 11 13 00-0087 LF 12" Stainless Steel Well Screen.....	183.90	8.43
For>100 To 250, Deduct	-5.54	
For>250 To 400, Deduct	-10.14	
For>400 To 600, Deduct	-15.21	
For>600 To 750, Deduct	-20.28	
For>750, Deduct	-26.58	
33 11 13 00-0088 LF 14" Stainless Steel Well Screen.....	201.14	9.28
For>100 To 250, Deduct	-6.12	
For>250 To 400, Deduct	-11.14	
For>400 To 600, Deduct	-16.72	
For>600 To 750, Deduct	-22.29	
For>750, Deduct	-29.27	
33 11 13 00-0089 LF 16" Stainless Steel Well Screen.....	217.06	10.96
For>100 To 250, Deduct	-6.65	
For>250 To 400, Deduct	-12.07	
For>400 To 600, Deduct	-18.11	
For>600 To 750, Deduct	-24.15	
For>750, Deduct	-31.78	
33 11 13 00-0090 LF 18" Stainless Steel Well Screen.....	259.96	12.65
For>100 To 250, Deduct	-8.00	
For>250 To 400, Deduct	-14.50	
For>400 To 600, Deduct	-21.76	
For>600 To 750, Deduct	-29.01	
For>750, Deduct	-38.22	
33 11 13 00-0091 LF 20" Stainless Steel Well Screen.....	327.99	16.01
For>100 To 250, Deduct	-10.09	
For>250 To 400, Deduct	-18.29	
For>400 To 600, Deduct	-27.44	
For>600 To 750, Deduct	-36.58	
For>750, Deduct	-48.19	
33 11 13 00-0092 LF 24" Stainless Steel Well Screen.....	425.08	21.07
For>100 To 250, Deduct	-13.11	
For>250 To 400, Deduct	-23.73	
For>400 To 600, Deduct	-35.60	
For>600 To 750, Deduct	-47.47	
For>750, Deduct	-62.56	
33 11 13 00-0093 LF 26" Stainless Steel Well Screen.....	490.89	24.45
For>100 To 250, Deduct	-15.08	
For>250 To 400, Deduct	-27.35	
For>400 To 600, Deduct	-41.03	
For>600 To 750, Deduct	-54.71	
For>750, Deduct	-72.04	
<b>33 11 13 00-0094 Slotted Polyvinyl Chloride (PVC) Well Screen, Schedule 40</b> <small>(33 11 13 00-0078)</small>		
33 11 13 00-0095 LF 1-1/4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....	23.00	
For>100 To 250, Deduct	-0.74	
For>250 To 400, Deduct	-1.32	
For>400 To 600, Deduct	-1.98	
For>600 To 750, Deduct	-2.64	
For>750, Deduct	-3.52	
For Schedule 80, Add	6.49	
33 11 13 00-0096 LF 1-1/2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....	26.71	
For>100 To 250, Deduct	-0.85	
For>250 To 400, Deduct	-1.52	
For>400 To 600, Deduct	-2.27	
For>600 To 750, Deduct	-3.03	
For>750, Deduct	-4.03	
For Schedule 80, Add	7.79	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0097 LF 2" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....	35.65	
For >100 To 250, Deduct	-1.21	
For >250 To 400, Deduct	-2.11	
For >400 To 600, Deduct	-3.16	
For >600 To 750, Deduct	-4.21	
For >750, Deduct	-5.68	
For Schedule 80, Add	9.09	
33 11 13 00-0098 LF 3" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....	56.14	
For >100 To 250, Deduct	-1.75	
For >250 To 400, Deduct	-3.16	
For >400 To 600, Deduct	-4.73	
For >600 To 750, Deduct	-6.31	
For >750, Deduct	-8.34	
For Schedule 80, Add	16.88	
33 11 13 00-0099 LF 4" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....	70.55	
For >100 To 250, Deduct	-2.20	
For >250 To 400, Deduct	-3.97	
For >400 To 600, Deduct	-5.95	
For >600 To 750, Deduct	-7.94	
For >750, Deduct	-10.49	
For Schedule 80, Add	21.17	
33 11 13 00-0100 LF 5" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....	89.17	
For >100 To 250, Deduct	-2.75	
For >250 To 400, Deduct	-4.98	
For >400 To 600, Deduct	-7.47	
For >600 To 750, Deduct	-9.97	
For >750, Deduct	-13.14	
For Schedule 80, Add	27.27	
33 11 13 00-0101 LF 6" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....	94.55	
For >100 To 250, Deduct	-3.06	
For >250 To 400, Deduct	-5.43	
For >400 To 600, Deduct	-8.14	
For >600 To 750, Deduct	-10.85	
For >750, Deduct	-14.48	
For Schedule 80, Add	26.62	
33 11 13 00-0102 LF 8" Diameter Slotted Polyvinyl Chloride (PVC) Well Screen .....	139.70	
For >100 To 250, Deduct	-4.39	
For >250 To 400, Deduct	-7.88	
For >400 To 600, Deduct	-11.82	
For >600 To 750, Deduct	-15.76	
For >750, Deduct	-20.86	
For Schedule 80, Add	41.56	
33 11 13 00-0103 Furnish And Install Gravel Pack Material <small>(33 11 13 00-0001)</small>		
Note: Quantity is based on 3" space between wall and the casing or well screen.		
33 11 13 00-0104 Artificial Gravel Pack <small>(33 11 13 00-0103)</small>		
Note: Excludes casing.		
33 11 13 00-0105 LF Artificial Gravel Pack, 6" Casing, 2" Screen.....	17.59	
For >100 To 250, Deduct	-0.68	
For >250 To 400, Deduct	-1.12	
For >400 To 600, Deduct	-1.68	
For >600 To 750, Deduct	-2.24	
For >750, Deduct	-3.12	
33 11 13 00-0106 LF Artificial Gravel Pack, 8" Casing, 2" Screen.....	25.98	
For >100 To 250, Deduct	-1.03	
For >250 To 400, Deduct	-1.68	
For >400 To 600, Deduct	-2.52	
For >600 To 750, Deduct	-3.36	
For >750, Deduct	-4.69	
33 11 13 00-0107 LF Artificial Gravel Pack, 10" Casing, 2" Screen.....	36.21	
For >100 To 250, Deduct	-1.47	
For >250 To 400, Deduct	-2.38	
For >400 To 600, Deduct	-3.57	
For >600 To 750, Deduct	-4.75	
For >750, Deduct	-6.68	
33 11 13 00-0108 LF Artificial Gravel Pack, 12" Casing, 2" Screen.....	46.40	
For >100 To 250, Deduct	-1.86	
For >250 To 400, Deduct	-3.02	
For >400 To 600, Deduct	-4.53	
For >600 To 750, Deduct	-6.05	
For >750, Deduct	-8.47	
33 11 13 00-0109 LF Artificial Gravel Pack, 14" Casing, 2" Screen.....	57.20	
For >100 To 250, Deduct	-2.27	
For >250 To 400, Deduct	-3.70	
For >400 To 600, Deduct	-5.55	
For >600 To 750, Deduct	-7.40	
For >750, Deduct	-10.34	
33 11 13 00-0110 LF Artificial Gravel Pack, 16" Casing, 2" Screen.....	74.01	
For >100 To 250, Deduct	-2.89	
For >250 To 400, Deduct	-4.74	
For >400 To 600, Deduct	-7.11	
For >600 To 750, Deduct	-9.47	
For >750, Deduct	-13.19	

<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 11</b>	<b>Groundwater Sources</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0111 LF Artificial Gravel Pack, 18" Casing, 2" Screen.....	84.86	
For >100 To 250, Deduct	-3.29	
For >250 To 400, Deduct	-5.42	
For >400 To 600, Deduct	-8.12	
For >600 To 750, Deduct	-10.83	
For >750, Deduct	-15.06	
33 11 13 00-0112 LF Artificial Gravel Pack, 20" Casing, 2" Screen.....	100.81	
For >100 To 250, Deduct	-3.95	
For >250 To 400, Deduct	-6.47	
For >400 To 600, Deduct	-9.71	
For >600 To 750, Deduct	-12.94	
For >750, Deduct	-18.04	
33 11 13 00-0113 LF Artificial Gravel Pack, 24" Casing, 2" Screen.....	114.07	
For >100 To 250, Deduct	-4.49	
For >250 To 400, Deduct	-7.35	
For >400 To 600, Deduct	-11.02	
For >600 To 750, Deduct	-14.69	
For >750, Deduct	-20.50	
33 11 13 00-0114 LF Artificial Gravel Pack, 26" Casing, 2" Screen.....	122.85	
For >100 To 250, Deduct	-4.79	
For >250 To 400, Deduct	-7.86	
For >400 To 600, Deduct	-11.79	
For >600 To 750, Deduct	-15.72	
For >750, Deduct	-21.87	
33 11 13 00-0115 LF Artificial Gravel Pack, 30" Casing, 2" Screen.....	146.56	
For >100 To 250, Deduct	-5.77	
For >250 To 400, Deduct	-9.44	
For >400 To 600, Deduct	-14.16	
For >600 To 750, Deduct	-18.88	
For >750, Deduct	-26.34	
33 11 13 00-0116 LF Artificial Gravel Pack, 36" Casing, 2" Screen.....	169.66	
For >100 To 250, Deduct	-6.81	
For >250 To 400, Deduct	-11.06	
For >400 To 600, Deduct	-16.58	
For >600 To 750, Deduct	-22.11	
For >750, Deduct	-30.98	
<b>33 11 13 00-0117 Develop Well</b> <small>(33 11 13 00-0001)</small>		
Note: Pump out drilled well to remove debris and fine material remaining from the drilling process. Excludes disposal.		
33 11 13 00-0118 HR Develop Well.....	445.90	
<b>33 11 13 00-0119 Pump Test</b> <small>(33 11 13 00-0001)</small>		
Note: To determine water level and GPM flow rate.		
33 11 13 00-0120 HR Pump Test Well.....	394.54	
<b>33 11 13 00-0121 Test Well</b> <small>(33 11 13 00-0001)</small>		
33 11 13 00-0122 VLF 2-1/2" Diameter Test Well.....	105.07	
<b>33 11 13 00-0123 Surface Seal, Concrete Filled</b> <small>(33 11 13)</small>		
33 11 13 00-0124 SF Surface Seal Well, Concrete Filled.....	37.48	
<b>33 11 13 00-0125 Other Water Well</b> <small>(33 11 13)</small>		
33 11 13 00-0126 SF Patch Hole In Well Casing.....	92.19	
33 11 13 00-0127 SF 1/2" Pressure Grout Well.....	2.88	
33 11 13 00-0128 SF 1" Pressure Grout Well.....	4.82	
33 11 13 00-0129 CF Sediment Removal In Well Casing For Existing Well.....	5.27	
<b>33 11 13 00-0130 Sterilization Of Well</b> <small>(33 11 13)</small>		
33 11 13 00-0131 EA Well Sterilization, Chlorine.....	1,526.48	
<b>33 11 13 00-0132 Submersible Well Pumps</b> <small>(33 11 13)</small>		
Note: Includes pump end, motor and control box.		
<b>33 11 13 00-0133 4" Submersible Well Pumps</b> <small>(33 11 13 00-0132)</small>		
<b>33 11 13 00-0134 Powder Coated Case And Cast Iron Ends</b> <small>(33 11 13 00-0133)</small>		
33 11 13 00-0135 EA 1/2 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,556.17	565.01
33 11 13 00-0136 EA 3/4 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,771.09	626.24
33 11 13 00-0137 EA 1 HP Submersible Well Pump, 4" Diameter Powder Coated Case And Cast Iron Ends.....	1,965.94	695.82
<b>33 11 13 00-0138 Stainless Steel Case And Ends</b> <small>(33 11 13 00-0133)</small>		
33 11 13 00-0139 EA 1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,729.05	556.66
33 11 13 00-0140 EA 3/4 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	1,968.86	626.24
33 11 13 00-0141 EA 1 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	2,205.13	695.82





<b>Utilities</b>	<b>33</b>	<b>CS</b>
Water Utilities	33 10	
Groundwater Sources	33 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 11 13 00-0142 EA 1-1/2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	2,514.80	765.41
33 11 13 00-0143 EA 2 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	2,835.13	834.99
33 11 13 00-0144 EA 3 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	3,468.70	974.15
33 11 13 00-0145 EA 5 HP Submersible Well Pump, 4" Diameter Stainless Steel.....	4,323.69	1,113.32
<b>33 11 13 00-0146 6" Submersible Well Pumps (33 11 13 00-0132)</b>		
33 11 13 00-0147 EA 5 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	4,313.17	1,391.65
33 11 13 00-0148 EA 7.5 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	4,947.91	1,530.81
33 11 13 00-0149 EA 10 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	5,605.16	1,669.98
33 11 13 00-0150 EA 15 HP Submersible Well Pump, 6" Diameter Stainless Steel.....	6,732.48	1,948.32

**33 14 Water Utility Transmission and Distribution (33 10)**

**33 14 11 Water Utility Transmission Piping (33 14)**

See CSI section 33 14 13 00-0000 for water utility transmission piping.

**33 14 13 Public Water Utility Distribution Piping (33 14)**

Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.

**33 14 13 13 Ductile Iron Public Water Utility Distribution Piping (33 14 13)**

**33 14 13 13-0001 Ductile Iron Piping (33 14 13 13)**

**33 14 13 13-0002 Mechanical Joint Ductile Iron Piping (33 14 13 13-0001)**

Note: Cement lining and bituminous coating shall conform to ANSI A21.4. Fittings are C153. See CSI section 33 14 13 13-0500 for bolts and gaskets.

**33 14 13 13-0003 Mechanical Joint Ductile Iron Pipe (33 14 13 13-0002)**

Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.

33 14 13 13-0004 LF 3", Class 51, Mechanical Joint Ductile Iron Pipe.....	44.64	13.93
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	16.50	
For Cement Mortar Lining (CML), Add	2.36	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	12.73	
For Fusion Bonded Epoxy Lining (206N), Add	4.24	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.77	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.23	
For Class 52, Add	7.48	
For Class 53, Add	13.42	
For Class 54, Add	19.12	
For Class 55, Add	22.02	
For Class 56, Add	24.88	
33 14 13 13-0005 LF 4", Class 50, Mechanical Joint Ductile Iron Pipe.....	48.35	14.83
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	18.12	
For Cement Mortar Lining (CML), Add	2.59	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	13.98	
For Fusion Bonded Epoxy Lining (206N), Add	4.66	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.94	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.42	
For Class 51, Add	3.81	
For Class 52, Add	8.20	
For Class 53, Add	14.72	
For Class 54, Add	20.97	
For Class 55, Add	24.15	
For Class 56, Add	27.28	
33 14 13 13-0006 LF 6", Class 50, Mechanical Joint Ductile Iron Pipe.....	51.62	15.55
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	19.67	
For Cement Mortar Lining (CML), Add	2.81	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	15.17	
For Fusion Bonded Epoxy Lining (206N), Add	5.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.11	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.58	
For Class 51, Add	4.12	
For Class 52, Add	8.88	
For Class 53, Add	15.94	
For Class 54, Add	22.71	
For Class 55, Add	26.16	
For Class 56, Add	29.54	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0007 LF 8", Class 50, Mechanical Joint Ductile Iron Pipe.....	60.45	16.17
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	25.17	
For Cement Mortar Lining (CML), Add	3.60	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	19.41	
For Fusion Bonded Epoxy Lining (206N), Add	6.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.70	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.02	
For Class 51, Add	5.21	
For Class 52, Add	11.22	
For Class 53, Add	20.18	
For Class 54, Add	28.78	
For Class 55, Add	33.11	
For Class 56, Add	37.37	
33 14 13 13-0008 LF 10", Class 50, Mechanical Joint Ductile Iron Pipe.....	82.04	23.28
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	28.06	
For Cement Mortar Lining (CML), Add	4.68	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.39	
For Fusion Bonded Epoxy Lining (206N), Add	8.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.51	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.10	
For Class 51, Add	6.82	
For Class 52, Add	14.68	
For Class 53, Add	26.39	
For Class 54, Add	37.61	
For Class 55, Add	43.29	
For Class 56, Add	48.88	
33 14 13 13-0009 LF 12", Class 50, Mechanical Joint Ductile Iron Pipe.....	98.92	25.87
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	29.87	
For Cement Mortar Lining (CML), Add	5.97	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	23.89	
For Fusion Bonded Epoxy Lining (206N), Add	10.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4.48	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.95	
For Class 51, Add	8.63	
For Class 52, Add	18.61	
For Class 53, Add	33.48	
For Class 54, Add	47.74	
For Class 55, Add	54.92	
For Class 56, Add	61.98	
33 14 13 13-0010 LF 14", Class 50, Mechanical Joint Ductile Iron Pipe.....	118.16	29.04
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	32.59	
For Cement Mortar Lining (CML), Add	7.41	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	25.18	
For Fusion Bonded Epoxy Lining (206N), Add	13.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.56	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.91	
For Class 51, Add	10.65	
For Class 52, Add	22.96	
For Class 53, Add	41.35	
For Class 54, Add	58.97	
For Class 55, Add	67.83	
For Class 56, Add	76.52	
33 14 13 13-0011 LF 16", Class 50, Mechanical Joint Ductile Iron Pipe.....	133.42	33.27
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	34.05	
For Cement Mortar Lining (CML), Add	8.30	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	25.74	
For Fusion Bonded Epoxy Lining (206N), Add	14.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.23	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.67	
For Class 51, Add	11.95	
For Class 52, Add	25.76	
For Class 53, Add	46.39	
For Class 54, Add	66.16	
For Class 55, Add	76.10	
For Class 56, Add	85.86	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0012 LF 18", Class 50, Mechanical Joint Ductile Iron Pipe.....	165.29	38.80
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	43.67	
For Cement Mortar Lining (CML), Add	10.65	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	33.02	
For Fusion Bonded Epoxy Lining (206N), Add	19.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.99	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-8.26	
For Class 51, Add	15.25	
For Class 52, Add	32.90	
For Class 53, Add	59.28	
For Class 54, Add	84.56	
For Class 55, Add	97.23	
For Class 56, Add	109.68	
33 14 13 13-0013 LF 20", Class 50, Mechanical Joint Ductile Iron Pipe.....	187.83	46.56
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	44.57	
For Cement Mortar Lining (CML), Add	11.73	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	32.84	
For Fusion Bonded Epoxy Lining (206N), Add	21.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.80	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-9.39	
For Class 51, Add	16.87	
For Class 52, Add	36.37	
For Class 53, Add	65.50	
For Class 54, Add	93.41	
For Class 55, Add	107.44	
For Class 56, Add	121.22	
33 14 13 13-0014 LF 24", Class 50, Mechanical Joint Ductile Iron Pipe.....	245.59	58.20
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	48.80	
For Cement Mortar Lining (CML), Add	15.74	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	33.06	
For Fusion Bonded Epoxy Lining (206N), Add	28.33	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	11.81	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-12.28	
For Class 51, Add	22.56	
For Class 52, Add	48.66	
For Class 53, Add	87.66	
For Class 54, Add	125.05	
For Class 55, Add	143.80	
For Class 56, Add	162.21	
33 14 13 13-0015 LF 30", Class 50, Mechanical Joint Ductile Iron Pipe.....	316.03	62.67
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	68.81	
For Cement Mortar Lining (CML), Add	22.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.65	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-15.80	
For Class 51, Add	31.43	
For Class 52, Add	67.85	
For Class 53, Add	122.48	
For Class 54, Add	174.82	
For Class 55, Add	200.88	
For Class 56, Add	226.47	
33 14 13 13-0016 LF 36", Class 50, Mechanical Joint Ductile Iron Pipe.....	377.50	66.55
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	86.04	
For Cement Mortar Lining (CML), Add	27.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	49.96	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.82	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-18.88	
For Class 51, Add	39.08	
For Class 52, Add	84.41	
For Class 53, Add	152.49	
For Class 54, Add	217.72	
For Class 55, Add	250.08	
For Class 56, Add	281.86	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0017 LF 42", Class 50, Mechanical Joint Ductile Iron Pipe.....	463.36	70.43
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	110.84	
For Cement Mortar Lining (CML), Add	35.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	64.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.82	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-23.17	
For Class 51, Add	50.06	
For Class 52, Add	108.16	
For Class 53, Add	195.58	
For Class 54, Add	279.32	
For Class 55, Add	320.72	
For Class 56, Add	361.37	
33 14 13 13-0018 LF 48", Class 50, Mechanical Joint Ductile Iron Pipe.....	567.43	74.43
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	141.28	
For Cement Mortar Lining (CML), Add	45.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	82.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	34.18	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-28.37	
For Class 51, Add	63.51	
For Class 52, Add	137.28	
For Class 53, Add	248.42	
For Class 54, Add	354.86	
For Class 55, Add	407.35	
For Class 56, Add	458.88	
<b>33 14 13 13-0019 Mechanical Joint Ductile Iron 90 Degree Elbow (33 14 13 13-0002)</b>		
33 14 13 13-0020 EA 3" Mechanical Joint Ductile Iron 90 Degree Elbow .....	188.03	43.98
For Cement Mortar Lining (CML), Add	12.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	21.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0021 EA 4" Mechanical Joint Ductile Iron 90 Degree Elbow .....	211.72	52.55
For Cement Mortar Lining (CML), Add	13.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	23.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	9.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0022 EA 6" Mechanical Joint Ductile Iron 90 Degree Elbow .....	333.60	77.67
For Cement Mortar Lining (CML), Add	21.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	38.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0023 EA 8" Mechanical Joint Ductile Iron 90 Degree Elbow .....	453.81	92.12
For Cement Mortar Lining (CML), Add	31.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0024 EA 10" Mechanical Joint Ductile Iron 90 Degree Elbow .....	656.20	103.22
For Cement Mortar Lining (CML), Add	49.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	89.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.49	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0025 EA 12" Mechanical Joint Ductile Iron 90 Degree Elbow .....	856.39	121.10
For Cement Mortar Lining (CML), Add	67.30	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	121.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.47	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0026 EA 14" Mechanical Joint Ductile Iron 90 Degree Elbow .....	1,332.15	135.80
For Cement Mortar Lining (CML), Add	112.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	202.75	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	84.48	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0027	EA			16" Mechanical Joint Ductile Iron 90 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,764.99 152.99 275.37 114.74	155.20
33 14 13 13-0028	EA			18" Mechanical Joint Ductile Iron 90 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,171.39 184.22 331.60 138.17	217.27
33 14 13 13-0029	EA			20" Mechanical Joint Ductile Iron 90 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,980.27 256.88 462.38 192.66	271.59
33 14 13 13-0030	EA			24" Mechanical Joint Ductile Iron 90 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,382.48 383.44 690.20 287.58	361.64
33 14 13 13-0031	EA			30" Mechanical Joint Ductile Iron 90 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,741.16 615.33 1,107.60 461.50	387.99
33 14 13 13-0032	EA			36" Mechanical Joint Ductile Iron 90 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,230.24 962.00 1,731.60 721.50	402.80
33 14 13 13-0033	EA			42" Mechanical Joint Ductile Iron 90 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,201.71 1,649.63 2,969.33 1,237.22	465.58
33 14 13 13-0034	EA			48" Mechanical Joint Ductile Iron 90 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	22,746.71 2,199.63 3,959.33 1,649.72	495.33
<b>33 14 13 13-0035</b>				<b>Mechanical Joint Ductile Iron 45 Degree Elbow</b> <small>(33 14 13 13-0002)</small>		
33 14 13 13-0036	EA			3" Mechanical Joint Ductile Iron 45 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	175.53 10.89 19.60 8.17	43.98
33 14 13 13-0037	EA			4" Mechanical Joint Ductile Iron 45 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	188.51 10.89 19.60 8.17	52.55
33 14 13 13-0038	EA			6" Mechanical Joint Ductile Iron 45 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	292.54 17.49 31.49 13.12	77.67
33 14 13 13-0039	EA			8" Mechanical Joint Ductile Iron 45 Degree Elbow ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	394.90 25.53 45.95 19.15	92.12

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0040 EA 10" Mechanical Joint Ductile Iron 45 Degree Elbow .....	529.46	103.22
For Cement Mortar Lining (CML), Add	37.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	67.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0041 EA 12" Mechanical Joint Ductile Iron 45 Degree Elbow .....	740.36	121.10
For Cement Mortar Lining (CML), Add	55.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	100.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0042 EA 14" Mechanical Joint Ductile Iron 45 Degree Elbow .....	1,082.23	135.80
For Cement Mortar Lining (CML), Add	87.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	157.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	65.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0043 EA 16" Mechanical Joint Ductile Iron 45 Degree Elbow .....	1,327.63	155.20
For Cement Mortar Lining (CML), Add	109.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	196.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	81.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0044 EA 18" Mechanical Joint Ductile Iron 45 Degree Elbow .....	1,896.49	217.27
For Cement Mortar Lining (CML), Add	156.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	282.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	117.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0045 EA 20" Mechanical Joint Ductile Iron 45 Degree Elbow .....	2,085.92	271.59
For Cement Mortar Lining (CML), Add	167.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	301.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	125.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0046 EA 24" Mechanical Joint Ductile Iron 45 Degree Elbow .....	3,091.84	361.64
For Cement Mortar Lining (CML), Add	254.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	457.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	190.79	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0047 EA 30" Mechanical Joint Ductile Iron 45 Degree Elbow .....	5,755.77	387.99
For Cement Mortar Lining (CML), Add	516.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	930.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	387.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0048 EA 36" Mechanical Joint Ductile Iron 45 Degree Elbow .....	8,166.64	402.80
For Cement Mortar Lining (CML), Add	755.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,360.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	566.73	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0049 EA 42" Mechanical Joint Ductile Iron 45 Degree Elbow .....	12,315.84	465.58
For Cement Mortar Lining (CML), Add	1,161.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,089.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	870.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0050 EA 48" Mechanical Joint Ductile Iron 45 Degree Elbow .....	15,965.04	495.33
For Cement Mortar Lining (CML), Add	1,521.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,738.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,141.09	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0051 Mechanical Joint Ductile Iron 22-1/2 Degree Elbow</b> <small>(33 14 13 13-0002)</small>		
33 14 13 13-0052 EA 3" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	152.33	43.98
For Cement Mortar Lining (CML), Add	8.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.43	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0053	EA		4" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	183.16 10.35 18.64 7.77	52.55
33 14 13	13-0054	EA		6" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	278.26 16.07 28.92 12.05	77.67
33 14 13	13-0055	EA		8" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	389.55 24.99 44.99 18.74	92.12
33 14 13	13-0056	EA		10" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	527.67 37.13 66.83 27.85	103.22
33 14 13	13-0057	EA		12" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	670.74 48.73 87.72 36.55	121.10
33 14 13	13-0058	EA		14" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,092.94 88.72 159.70 66.54	135.80
33 14 13	13-0059	EA		16" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,283.01 104.79 188.62 78.59	155.20
33 14 13	13-0060	EA		18" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,616.22 128.71 231.67 96.53	217.27
33 14 13	13-0061	EA		20" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,160.90 174.94 314.90 131.21	271.59
33 14 13	13-0062	EA		24" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,895.47 234.74 422.54 176.06	361.64
33 14 13	13-0063	EA		30" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,918.55 433.07 779.53 324.80	387.99
33 14 13	13-0064	EA		36" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,958.12 634.79 1,142.62 476.09	402.80

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0065 EA 42" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	10,289.73	465.58
For Cement Mortar Lining (CML), Add	958.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,725.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	718.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0066 EA 48" Mechanical Joint Ductile Iron 22-1/2 Degree Elbow .....	13,230.23	495.33
For Cement Mortar Lining (CML), Add	1,247.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,246.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	935.98	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0067 Mechanical Joint Ductile Iron 11-1/4 Degree Elbow (33 14 13 13-0002)</b>		
33 14 13 13-0068 EA 3" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	152.33	43.98
For Cement Mortar Lining (CML), Add	8.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0069 EA 4" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	177.80	52.55
For Cement Mortar Lining (CML), Add	9.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0070 EA 6" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	283.62	77.67
For Cement Mortar Lining (CML), Add	16.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	29.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0071 EA 8" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	366.34	92.12
For Cement Mortar Lining (CML), Add	22.67	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.81	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0072 EA 10" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	524.10	103.22
For Cement Mortar Lining (CML), Add	36.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	66.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0073 EA 12" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	640.39	121.10
For Cement Mortar Lining (CML), Add	45.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	82.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	34.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0074 EA 14" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	1,217.90	135.80
For Cement Mortar Lining (CML), Add	101.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	182.19	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0075 EA 16" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	1,343.70	155.20
For Cement Mortar Lining (CML), Add	110.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	199.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	83.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0076 EA 18" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	1,955.38	217.27
For Cement Mortar Lining (CML), Add	162.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	292.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	121.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0077 EA 20" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow .....	2,059.15	271.59
For Cement Mortar Lining (CML), Add	164.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	296.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	123.58	
Note: ANSI/AWWA C151/A21.51		





	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>33</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0078	EA	24" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,745.52 219.75 395.55 164.81	361.64
33 14 13	13-0079	EA	30" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,997.10 440.93 793.67 330.69	387.99
33 14 13	13-0080	EA	36" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,636.80 602.66 1,084.78 451.99	402.80
33 14 13	13-0081	EA	42" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,852.37 914.70 1,646.45 686.02	465.58
33 14 13	13-0082	EA	48" Mechanical Joint Ductile Iron 11-1/4 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	13,144.55 1,239.41 2,230.94 929.56	495.33
33 14 13	13-0083		<b>Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow</b> <small>(33 14 13 13-0002)</small>		
33 14 13	13-0084	EA	3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	193.38 12.67 22.81 9.51	43.98
33 14 13	13-0085	EA	4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	236.71 15.71 28.28 11.78	52.55
33 14 13	13-0086	EA	6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	378.23 26.06 46.91 19.55	77.67
33 14 13	13-0087	EA	8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	512.72 37.31 67.16 27.98	92.12
33 14 13	13-0088	EA	10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	741.89 58.55 105.39 43.91	103.22
33 14 13	13-0089	EA	12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	949.22 76.58 137.85 57.44	121.10

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0090 EA 14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	1,630.27	135.80
For Cement Mortar Lining (CML), Add	142.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	256.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	106.84	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0091 EA 16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,491.53	155.20
For Cement Mortar Lining (CML), Add	225.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	406.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	169.23	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0092 EA 18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	2,892.57	217.27
For Cement Mortar Lining (CML), Add	256.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	461.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	192.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0093 EA 20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	3,929.95	271.59
For Cement Mortar Lining (CML), Add	351.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	633.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	263.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0094 EA 24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	4,775.20	361.64
For Cement Mortar Lining (CML), Add	422.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	760.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	317.04	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0095 EA 30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	8,911.86	387.99
For Cement Mortar Lining (CML), Add	832.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,498.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	624.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0096 EA 36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow.....	15,949.77	402.80
For Cement Mortar Lining (CML), Add	1,533.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,761.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,150.47	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0097 Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow</b> <small>(33 14 13 13-0002)</small>		
33 14 13 13-0098 EA 3" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	177.32	43.98
For Cement Mortar Lining (CML), Add	11.07	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	19.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0099 EA 4" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	193.87	52.55
For Cement Mortar Lining (CML), Add	11.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0100 EA 6" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	312.18	77.67
For Cement Mortar Lining (CML), Add	19.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0101 EA 8" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow.....	452.03	92.12
For Cement Mortar Lining (CML), Add	31.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.43	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0102	EA		10" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	620.50 46.41 83.54 34.81	103.22
33 14 13	13-0103	EA		12" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	843.89 66.05 118.89 49.54	121.10
33 14 13	13-0104	EA		14" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,442.83 123.71 222.68 92.78	135.80
33 14 13	13-0105	EA		16" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,196.99 196.19 353.13 147.14	155.20
33 14 13	13-0106	EA		18" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,594.46 226.53 407.76 169.90	217.27
33 14 13	13-0107	EA		20" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,369.42 295.79 532.43 221.85	271.59
33 14 13	13-0108	EA		24" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,234.31 368.63 663.53 276.47	361.64
33 14 13	13-0109	EA		30" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,828.30 724.05 1,303.28 543.03	387.99
33 14 13	13-0110	EA		36" Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	13,955.79 1,334.56 2,402.20 1,000.92	402.80
<b>33 14 13 13-0111 Mechanical Joint Ductile Iron Tee (33 14 13 13-0002)</b>						
33 14 13	13-0112	EA		3" x 3" Mechanical Joint Ductile Iron Tee ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	307.02 20.71 37.27 15.53	65.98
33 14 13	13-0113	EA		4" x 3" Mechanical Joint Ductile Iron Tee ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	318.79 20.71 37.27 15.53	73.73
33 14 13	13-0114	EA		4" x 4" Mechanical Joint Ductile Iron Tee ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	290.76 17.32 31.17 12.99	77.67

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0115 EA 6" x 3" Mechanical Joint Ductile Iron Tee.....	387.43	97.82
For Cement Mortar Lining (CML), Add	23.92	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	43.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0116 EA 6" x 4" Mechanical Joint Ductile Iron Tee.....	445.30	101.86
For Cement Mortar Lining (CML), Add	29.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	52.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.82	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0117 EA 6" x 6" Mechanical Joint Ductile Iron Tee.....	485.11	114.04
For Cement Mortar Lining (CML), Add	31.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	56.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0118 EA 8" x 4" Mechanical Joint Ductile Iron Tee.....	516.25	118.05
For Cement Mortar Lining (CML), Add	33.74	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	60.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0119 EA 8" x 6" Mechanical Joint Ductile Iron Tee.....	586.39	130.17
For Cement Mortar Lining (CML), Add	38.92	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	70.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.19	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0120 EA 8" x 8" Mechanical Joint Ductile Iron Tee.....	678.98	138.30
For Cement Mortar Lining (CML), Add	46.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	84.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0121 EA 10" x 4" Mechanical Joint Ductile Iron Tee.....	712.06	128.29
For Cement Mortar Lining (CML), Add	51.77	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	93.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0122 EA 10" x 6" Mechanical Joint Ductile Iron Tee.....	713.64	139.93
For Cement Mortar Lining (CML), Add	50.16	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	90.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0123 EA 10" x 8" Mechanical Joint Ductile Iron Tee.....	811.09	147.69
For Cement Mortar Lining (CML), Add	58.73	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	105.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	44.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0124 EA 10" x 10" Mechanical Joint Ductile Iron Tee.....	906.35	155.20
For Cement Mortar Lining (CML), Add	67.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	120.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.34	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0125 EA 12" x 4" Mechanical Joint Ductile Iron Tee.....	851.62	143.81
For Cement Mortar Lining (CML), Add	63.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	114.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	47.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0126 EA 12" x 6" Mechanical Joint Ductile Iron Tee.....	967.42	155.44
For Cement Mortar Lining (CML), Add	73.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	131.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	54.89	
Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0127 EA 12" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,188.05 94.08 169.34 70.56	163.21
33 14 13 13-0128 EA 12" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,272.59 101.40 182.51 76.05	170.72
33 14 13 13-0129 EA 12" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,207.59 93.72 168.69 70.29	178.48
33 14 13 13-0130 EA 14" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,288.39 101.40 182.51 76.05	181.13
33 14 13 13-0131 EA 14" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,434.03 114.78 206.61 86.09	188.90
33 14 13 13-0132 EA 14" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,830.98 153.34 276.02 115.01	196.39
33 14 13 13-0133 EA 14" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,956.98 164.77 296.58 123.58	204.15
33 14 13 13-0134 EA 14" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,888.97 156.02 280.83 117.01	217.04
33 14 13 13-0135 EA 16" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,637.57 130.85 235.53 98.14	217.26
33 14 13 13-0136 EA 16" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,761.92 142.10 255.77 106.57	225.03
33 14 13 13-0137 EA 16" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,051.74 169.94 305.90 127.46	232.52
33 14 13 13-0138 EA 16" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,245.60 188.15 338.67 141.11	240.28

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0139 EA 16" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,702.40 231.89 417.40 173.92	253.13
33 14 13 13-0140 EA 16" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,554.83 214.39 385.91 160.79	271.23
33 14 13 13-0141 EA 18" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,274.24 185.30 333.53 138.97	278.05
33 14 13 13-0142 EA 18" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,439.53 200.65 361.16 150.49	285.81
33 14 13 13-0143 EA 18" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,640.12 219.57 395.23 164.68	293.32
33 14 13 13-0144 EA 18" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,839.32 238.31 428.97 178.74	301.08
33 14 13 13-0145 EA 18" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,921.24 244.56 440.21 183.42	313.91
33 14 13 13-0146 EA 18" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,118.20 261.52 470.74 196.14	331.99
33 14 13 13-0147 EA 18" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,651.59 310.25 558.46 232.69	362.35
33 14 13 13-0148 EA 20" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,689.16 208.50 375.30 156.38	398.73
33 14 13 13-0149 EA 20" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,747.34 213.14 383.66 159.86	406.50
33 14 13 13-0150 EA 20" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,992.54 236.53 425.75 177.40	414.00



	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>CS</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0151 EA 20" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,236.37 259.74 467.52 194.80	421.76
33 14 13 13-0152 EA 20" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,275.47 261.70 471.06 196.27	434.59
33 14 13 13-0153 EA 20" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,324.26 263.84 474.91 197.88	452.66
33 14 13 13-0154 EA 20" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,177.19 344.53 620.15 258.40	483.05
33 14 13 13-0155 EA 20" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,683.09 285.98 514.76 214.48	543.42
33 14 13 13-0156 EA 24" x 6" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,294.51 250.81 451.46 188.11	519.04
33 14 13 13-0157 EA 24" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,338.42 254.02 457.24 190.52	527.54
33 14 13 13-0158 EA 24" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,678.24 286.87 516.36 215.15	534.31
33 14 13 13-0159 EA 24" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,770.31 294.90 530.82 221.18	542.07
33 14 13 13-0160 EA 24" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,243.19 340.24 612.44 255.18	554.90
33 14 13 13-0161 EA 24" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,582.97 371.48 668.67 278.61	572.96
33 14 13 13-0162 EA 24" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,207.40 429.32 772.78 321.99	603.36

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0163 EA 24" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,771.88 476.63 857.93 357.47	663.71
33 14 13 13-0164 EA 24" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,341.77 424.50 764.10 318.38	723.88
33 14 13 13-0165 EA 30" x 8" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,717.20 478.95 862.11 359.21	612.29
33 14 13 13-0166 EA 30" x 10" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,023.09 508.40 915.12 381.30	619.79
33 14 13 13-0167 EA 30" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,329.40 537.86 968.14 403.39	627.55
33 14 13 13-0168 EA 30" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,766.57 579.63 1,043.33 434.72	640.40
33 14 13 13-0169 EA 30" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,240.22 624.26 1,123.66 468.19	852.03
33 14 13 13-0170 EA 30" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,436.22 639.25 1,150.65 479.44	688.85
33 14 13 13-0171 EA 30" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,736.51 660.14 1,188.25 495.10	749.20
33 14 13 13-0172 EA 30" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,129.34 690.31 1,242.55 517.73	809.35
33 14 13 13-0173 EA 30" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,189.86 889.88 1,601.79 667.41	852.03
33 14 13 13-0174 EA 30" x 6" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,976.77 506.08 910.95 379.56	604.52





	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>33</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0175 EA 36" x 8" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,987.88 595.87 1,072.57 446.90	679.24
33 14 13 13-0176 EA 36" x 10" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	7,773.98 673.35 1,212.02 505.01	686.73
33 14 13 13-0177 EA 36" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,199.89 714.76 1,286.57 536.07	694.49
33 14 13 13-0178 EA 36" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,506.74 743.50 1,338.30 557.63	707.34
33 14 13 13-0179 EA 36" x 16" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,817.95 771.89 1,389.39 578.91	725.40
33 14 13 13-0180 EA 36" x 18" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,413.82 826.87 1,488.36 620.15	755.80
33 14 13 13-0181 EA 36" x 20" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,056.85 882.03 1,587.65 661.52	816.13
33 14 13 13-0182 EA 36" x 24" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,126.23 979.85 1,763.73 734.89	876.29
33 14 13 13-0183 EA 36" x 30" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,299.56 1,090.71 1,963.27 818.03	952.56
33 14 13 13-0184 EA 36" x 36" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	14,358.52 1,291.53 2,324.76 968.65	952.56
33 14 13 13-0185 EA 42" x 12" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,132.52 1,502.36 2,704.24 1,126.77	731.91
33 14 13 13-0186 EA 42" x 14" Mechanical Joint Ductile Iron Tee..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,455.46 1,532.70 2,758.87 1,149.53	744.75

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0187 EA 42" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	18,287.59 1,713.18 3,083.72 1,284.89	762.82
33 14 13 13-0188 EA 42" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	17,101.90 1,590.01 2,862.01 1,192.50	793.20
33 14 13 13-0189 EA 42" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	17,193.32 1,590.01 2,862.01 1,192.50	853.56
33 14 13 13-0190 EA 42" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	17,575.45 1,619.10 2,914.39 1,214.33	913.70
33 14 13 13-0191 EA 42" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	21,310.42 1,986.13 3,575.03 1,489.59	956.45
33 14 13 13-0192 EA 42" x 36" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	22,194.78 2,069.49 3,725.08 1,552.12	989.92
33 14 13 13-0193 EA 42" x 42" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	23,478.06 2,194.98 3,950.97 1,646.24	1,008.65
33 14 13 13-0194 EA 48" x 12" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	19,005.87 1,780.66 3,205.18 1,335.49	791.54
33 14 13 13-0195 EA 48" x 14" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	19,346.64 1,812.79 3,263.02 1,359.59	804.38
33 14 13 13-0196 EA 48" x 16" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	19,829.22 1,858.31 3,344.96 1,393.73	822.44
33 14 13 13-0197 EA 48" x 18" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	20,328.70 1,903.65 3,426.57 1,427.74	852.84
33 14 13 13-0198 EA 48" x 20" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	20,875.33 1,949.17 3,508.51 1,461.88	913.17



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 14 13	13-0199	EA	48" x 24" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	21,027.16 1,955.24 3,519.44 1,466.43	973.33
	33 14 13	13-0200	EA	48" x 30" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	25,588.66 2,404.91 4,328.85 1,803.69	1,016.08
	33 14 13	13-0201	EA	48" x 36" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	29,173.89 2,758.37 4,965.06 2,068.78	1,049.55
	33 14 13	13-0202	EA	48" x 42" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	30,601.78 2,898.32 5,216.98 2,173.74	1,068.25
	33 14 13	13-0203	EA	48" x 48" Mechanical Joint Ductile Iron Tee..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	31,112.86 2,944.91 5,300.84 2,208.68	1,098.12
	<b>33 14 13</b>	<b>13-0204</b>		<b>Mechanical Joint Ductile Iron Wye (Laterals) <small>(33 14 13 13-0002)</small></b>		
	33 14 13	13-0205	EA	4" x 3" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	263.46 15.17 27.31 11.38	73.73
	33 14 13	13-0206	EA	4" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	401.43 28.38 51.09 21.29	77.61
	33 14 13	13-0207	EA	6" x 3" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	387.43 23.92 43.06 17.94	97.82
	33 14 13	13-0208	EA	6" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	447.09 29.28 52.70 21.96	101.86
	33 14 13	13-0209	EA	6" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	601.14 42.84 77.12 32.13	113.98
	33 14 13	13-0210	EA	8" x 4" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	769.73 59.09 106.36 44.32	118.05
	33 14 13	13-0211	EA	8" x 6" Mechanical Joint Ductile Iron Wye (Lateral)..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	691.71 49.45 89.01 37.09	130.17

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0212 EA 8" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....	834.28	138.26
For Cement Mortar Lining (CML), Add	62.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	112.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0213 EA 10" x 4" Mechanical Joint Ductile Iron Wye (Lateral) .....	1,188.69	128.29
For Cement Mortar Lining (CML), Add	99.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	178.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	74.57	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0214 EA 10" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....	1,258.10	139.93
For Cement Mortar Lining (CML), Add	104.61	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	188.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	78.46	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0215 EA 10" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....	1,444.81	147.69
For Cement Mortar Lining (CML), Add	122.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	219.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.58	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0216 EA 10" x 10" Mechanical Joint Ductile Iron Wye (Lateral) .....	1,625.75	155.20
For Cement Mortar Lining (CML), Add	139.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	250.31	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	104.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0217 EA 12" x 4" Mechanical Joint Ductile Iron Wye (Lateral) .....	1,515.68	143.81
For Cement Mortar Lining (CML), Add	129.78	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	233.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	97.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0218 EA 12" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....	1,713.60	155.44
For Cement Mortar Lining (CML), Add	147.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	266.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	110.86	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0219 EA 12" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....	2,062.76	163.21
For Cement Mortar Lining (CML), Add	181.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	326.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	136.16	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0220 EA 12" x 10" Mechanical Joint Ductile Iron Wye (Lateral) .....	2,122.31	170.72
For Cement Mortar Lining (CML), Add	186.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	335.46	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	139.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0221 EA 12" x 12" Mechanical Joint Ductile Iron Wye (Lateral) .....	1,925.21	178.46
For Cement Mortar Lining (CML), Add	165.48	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	297.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	124.11	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0222 EA 14" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....	2,266.63	181.13
For Cement Mortar Lining (CML), Add	199.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	358.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	149.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0223 EA 14" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....	2,592.58	188.90
For Cement Mortar Lining (CML), Add	230.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	415.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	172.98	
Note: ANSI/AWWA C151/A21.51		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0224 EA 14" x 10" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,380.46 308.29 554.92 231.22	196.39
33 14 13 13-0225 EA 14" x 12" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,620.71 331.14 596.05 248.36	204.15
33 14 13 13-0226 EA 14" x 14" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,540.21 321.14 578.06 240.86	216.99
33 14 13 13-0227 EA 16" x 6" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,332.09 200.29 360.52 150.22	217.26
33 14 13 13-0228 EA 16" x 8" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,565.22 222.43 400.37 166.82	225.03
33 14 13 13-0229 EA 16" x 10" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,021.06 266.88 480.38 200.16	232.52
33 14 13 13-0230 EA 16" x 12" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,377.36 301.33 542.39 226.00	240.28
33 14 13 13-0231 EA 16" x 14" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,221.54 383.80 690.84 287.85	253.13
33 14 13 13-0232 EA 16" x 16" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,073.97 366.31 659.35 274.73	271.19
33 14 13 13-0233 EA 18" x 6" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,664.85 324.36 583.84 243.27	278.05
33 14 13 13-0234 EA 18" x 8" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,944.39 351.13 632.04 263.35	285.81
33 14 13 13-0235 EA 18" x 10" Mechanical Joint Ductile Iron Wye (Lateral) ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,214.59 377.02 678.63 282.76	293.32

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0236 EA 18" x 12" Mechanical Joint Ductile Iron Wye (Lateral) .....	4,508.40	301.08
For Cement Mortar Lining (CML), Add	405.22	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	729.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	303.92	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0237 EA 18" x 14" Mechanical Joint Ductile Iron Wye (Lateral) .....	4,559.98	313.91
For Cement Mortar Lining (CML), Add	408.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	735.18	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	306.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0238 EA 18" x 16" Mechanical Joint Ductile Iron Wye (Lateral) .....	4,608.78	331.99
For Cement Mortar Lining (CML), Add	410.58	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	739.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	307.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0239 EA 18" x 18" Mechanical Joint Ductile Iron Wye (Lateral) .....	4,222.83	362.37
For Cement Mortar Lining (CML), Add	367.38	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	661.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	275.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0240 EA 20" x 6" Mechanical Joint Ductile Iron Wye (Lateral) .....	4,356.46	398.73
For Cement Mortar Lining (CML), Add	375.23	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	675.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	281.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0241 EA 20" x 8" Mechanical Joint Ductile Iron Wye (Lateral) .....	4,452.13	406.50
For Cement Mortar Lining (CML), Add	383.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	690.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	287.72	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0242 EA 20" x 10" Mechanical Joint Ductile Iron Wye (Lateral) .....	4,884.77	414.00
For Cement Mortar Lining (CML), Add	425.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	766.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	319.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0243 EA 20" x 12" Mechanical Joint Ductile Iron Wye (Lateral) .....	5,314.25	421.76
For Cement Mortar Lining (CML), Add	467.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	841.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	350.64	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0244 EA 20" x 14" Mechanical Joint Ductile Iron Wye (Lateral) .....	5,369.41	434.59
For Cement Mortar Lining (CML), Add	471.09	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	847.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	353.32	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0245 EA 20" x 16" Mechanical Joint Ductile Iron Wye (Lateral) .....	5,434.27	452.66
For Cement Mortar Lining (CML), Add	474.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	854.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	356.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0246 EA 20" x 18" Mechanical Joint Ductile Iron Wye (Lateral) .....	6,290.77	483.05
For Cement Mortar Lining (CML), Add	555.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,000.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	416.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0247 EA 20" x 20" Mechanical Joint Ductile Iron Wye (Lateral) .....	5,971.62	543.39
For Cement Mortar Lining (CML), Add	514.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	926.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	386.12	
Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>	<b>CS</b>
	<b>Water Utilities</b>	<b>33 10</b>	
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0248	EA	24" x 6" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,300.99 451.46 812.62 338.59	519.04
33 14 13 13-0249	EA	24" x 8" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,369.88 457.17 822.90 342.88	526.80
33 14 13 13-0250	EA	24" x 10" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,972.12 516.26 929.26 387.19	534.31
33 14 13 13-0251	EA	24" x 12" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,248.05 542.68 976.82 407.01	542.07
33 14 13 13-0252	EA	24" x 14" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,202.92 636.22 1,145.19 477.16	554.90
33 14 13 13-0253	EA	24" x 16" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,996.12 712.80 1,283.04 534.60	572.96
33 14 13 13-0254	EA	24" x 18" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,941.87 802.77 1,444.98 602.08	603.36
33 14 13 13-0255	EA	24" x 20" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,824.10 881.85 1,587.33 661.39	663.71
33 14 13 13-0256	EA	24" x 24" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,737.06 764.03 1,375.26 573.02	723.85
33 14 13 13-0257	EA	30" x 6" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,875.13 995.92 1,792.65 746.94	604.52
33 14 13 13-0258	EA	30" x 8" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,182.90 1,125.52 2,025.93 844.14	612.29
33 14 13 13-0259	EA	30" x 10" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,886.88 1,194.78 2,150.61 896.09	619.79

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0260 EA 30" x 12" Mechanical Joint Ductile Iron Wye (Lateral) .....	13,591.26	627.55
For Cement Mortar Lining (CML), Add	1,264.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,275.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	948.03	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0261 EA 30" x 14" Mechanical Joint Ductile Iron Wye (Lateral) .....	14,590.76	640.40
For Cement Mortar Lining (CML), Add	1,362.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,451.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,021.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0262 EA 30" x 16" Mechanical Joint Ductile Iron Wye (Lateral) .....	15,667.78	658.46
For Cement Mortar Lining (CML), Add	1,467.01	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,640.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,100.26	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0263 EA 30" x 18" Mechanical Joint Ductile Iron Wye (Lateral) .....	16,065.49	688.85
For Cement Mortar Lining (CML), Add	1,502.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,703.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,126.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0264 EA 30" x 20" Mechanical Joint Ductile Iron Wye (Lateral) .....	16,647.83	749.20
For Cement Mortar Lining (CML), Add	1,551.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,792.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,163.45	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0265 EA 30" x 24" Mechanical Joint Ductile Iron Wye (Lateral) .....	17,447.67	809.35
For Cement Mortar Lining (CML), Add	1,622.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,919.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,216.60	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0266 EA 30" x 30" Mechanical Joint Ductile Iron Wye (Lateral) .....	18,906.61	852.10
For Cement Mortar Lining (CML), Add	1,761.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,170.80	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,321.17	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0267 EA 36" x 12" Mechanical Joint Ductile Iron Wye (Lateral) .....	20,708.23	694.49
For Cement Mortar Lining (CML), Add	1,965.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,538.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,474.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0268 EA 36" x 14" Mechanical Joint Ductile Iron Wye (Lateral) .....	21,518.48	707.34
For Cement Mortar Lining (CML), Add	2,044.68	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,680.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,533.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0269 EA 36" x 16" Mechanical Joint Ductile Iron Wye (Lateral) .....	22,325.95	725.40
For Cement Mortar Lining (CML), Add	2,122.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,820.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,592.01	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0270 EA 36" x 18" Mechanical Joint Ductile Iron Wye (Lateral) .....	23,884.00	755.80
For Cement Mortar Lining (CML), Add	2,273.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,092.99	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,705.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0271 EA 36" x 20" Mechanical Joint Ductile Iron Wye (Lateral) .....	25,492.78	816.13
For Cement Mortar Lining (CML), Add	2,425.62	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,366.12	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,819.22	
Note: ANSI/AWWA C151/A21.51		





	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>33</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0272	EA	36" x 24" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	28,274.10 2,694.64 4,850.35 2,020.98	876.29
33 14 13 13-0273	EA	36" x 30" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	31,664.54 3,027.21 5,448.97 2,270.40	919.03
33 14 13 13-0274	EA	36" x 36" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	37,768.60 3,632.54 6,538.57 2,724.41	952.50
33 14 13 13-0275	EA	42" x 20" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	33,236.20 3,194.29 5,749.73 2,395.72	853.56
33 14 13 13-0276	EA	42" x 24" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	34,071.74 3,268.73 5,883.72 2,451.55	913.70
33 14 13 13-0277	EA	42" x 30" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	36,392.89 3,494.37 6,289.87 2,620.78	956.45
33 14 13 13-0278	EA	42" x 36" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	41,602.60 4,010.27 7,218.49 3,007.70	989.92
33 14 13 13-0279	EA	42" x 42" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	49,046.34 4,751.81 8,553.26 3,563.86	1,008.64
33 14 13 13-0280	EA	48" x 20" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	32,798.14 3,141.45 5,654.62 2,356.09	913.17
33 14 13 13-0281	EA	48" x 24" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	37,137.87 3,566.31 6,419.36 2,674.73	973.33
33 14 13 13-0282	EA	48" x 30" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	39,578.64 3,803.91 6,847.04 2,852.93	1,016.08
33 14 13 13-0283	EA	48" x 36" Mechanical Joint Ductile Iron Wye (Lateral) ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	45,100.73 4,351.05 7,831.89 3,263.29	1,049.55

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0284 EA 48" x 42" Mechanical Joint Ductile Iron Wye (Lateral) .....	58,928.06	1,068.25
For Cement Mortar Lining (CML), Add	5,730.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	10,315.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4,298.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0285 EA 48" x 48" Mechanical Joint Ductile Iron Wye (Lateral) .....	64,685.62	1,098.06
For Cement Mortar Lining (CML), Add	6,302.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	11,343.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	4,726.64	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0286 Mechanical Joint Ductile Iron Cross (33 14 13 13-0002)</b>		
33 14 13 13-0287 EA 3" x 3" Mechanical Joint Ductile Iron Cross .....	363.56	87.97
For Cement Mortar Lining (CML), Add	23.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0288 EA 4" x 3" Mechanical Joint Ductile Iron Cross .....	439.57	95.72
For Cement Mortar Lining (CML), Add	29.45	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	53.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0289 EA 4" x 4" Mechanical Joint Ductile Iron Cross .....	520.09	97.02
For Cement Mortar Lining (CML), Add	37.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	67.16	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	27.98	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0290 EA 6" x 3" Mechanical Joint Ductile Iron Cross .....	620.92	119.92
For Cement Mortar Lining (CML), Add	43.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	79.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	32.94	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0291 EA 6" x 4" Mechanical Joint Ductile Iron Cross .....	603.00	129.35
For Cement Mortar Lining (CML), Add	40.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	73.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0292 EA 6" x 6" Mechanical Joint Ductile Iron Cross .....	701.97	161.69
For Cement Mortar Lining (CML), Add	45.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	82.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	34.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0293 EA 8" x 4" Mechanical Joint Ductile Iron Cross .....	619.61	141.50
For Cement Mortar Lining (CML), Add	40.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	72.94	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	30.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0294 EA 8" x 6" Mechanical Joint Ductile Iron Cross .....	736.44	173.83
For Cement Mortar Lining (CML), Add	47.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	85.15	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	35.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0295 EA 8" x 8" Mechanical Joint Ductile Iron Cross .....	779.83	185.95
For Cement Mortar Lining (CML), Add	49.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	89.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	37.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0296 EA 10" x 4" Mechanical Joint Ductile Iron Cross .....	755.74	150.05
For Cement Mortar Lining (CML), Add	52.84	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	95.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	39.63	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0297	EA		10" x 6" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	867.02 59.27	181.09
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	106.68	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	44.45	
33 14 13	13-0298	EA		10" x 8" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	1,027.48 73.55	192.74
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	132.38	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	55.16	
33 14 13	13-0299	EA		10" x 10" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	1,111.53 79.80	206.92
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	143.63	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	59.85	
33 14 13	13-0300	EA		12 x 4" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	914.53 66.76	162.96
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	120.17	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	50.07	
33 14 13	13-0301	EA		12" x 6" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	1,063.32 76.94	193.99
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	138.49	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	57.70	
33 14 13	13-0302	EA		12" x 8" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	1,525.46 121.39	205.65
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	218.50	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	91.04	
33 14 13	13-0303	EA		12" x 10" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	1,547.03 121.39	219.89
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	218.50	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	91.04	
33 14 13	13-0304	EA		12" x 12" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	1,754.03 140.13	232.79
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	252.24	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	105.10	
33 14 13	13-0305	EA		14" x 6" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	1,794.25 147.09	213.38
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	264.77	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	110.32	
33 14 13	13-0306	EA		14" x 8" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,108.23 176.73	225.03
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	318.11	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	132.55	
33 14 13	13-0307	EA		14" x 10" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,165.50 180.30	239.27
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	324.53	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	135.22	
33 14 13	13-0308	EA		14" x 12" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	2,285.03 190.29	252.18
				<i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i>	342.53	
				<i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	142.72	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0309 EA 14" x 14" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,526.85 211.54 380.77 158.65	271.59
33 14 13 13-0310 EA 16" x 6" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,051.38 168.69 303.65 126.52	240.52
33 14 13 13-0311 EA 16" x 8" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,331.43 194.94 350.88 146.20	252.18
33 14 13 13-0312 EA 16" x 10" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,786.05 238.24 428.83 178.68	266.40
33 14 13 13-0313 EA 16" x 12" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,102.70 267.95 482.30 200.96	279.32
33 14 13 13-0314 EA 16" x 14" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,742.59 329.00 592.20 246.75	298.71
33 14 13 13-0315 EA 16" x 16" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,378.14 388.44 699.20 291.33	325.91
33 14 13 13-0316 EA 18" x 6" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,378.15 294.72 530.50 221.04	284.42
33 14 13 13-0317 EA 18" x 8" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,570.75 312.22 561.99 234.16	296.07
33 14 13 13-0318 EA 18" x 10" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	3,738.69 326.86 588.34 245.14	310.30
33 14 13 13-0319 EA 18" x 12" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,051.02 356.13 641.04 267.10	323.22
33 14 13 13-0320 EA 18" x 14" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,721.26 420.22 756.39 315.16	342.60



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0321	EA		18" x 16" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,026.59 446.64 803.95 334.98	369.74
33 14 13	13-0322	EA		18" x 18" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,268.02 464.13 835.44 348.10	413.62
33 14 13	13-0323	EA		20" x 6" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,246.61 370.59 667.06 277.94	356.86
33 14 13	13-0324	EA		20" x 8" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,440.99 388.26 698.88 291.20	368.51
33 14 13	13-0325	EA		20" x 10" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,578.58 399.87 719.76 299.90	382.75
33 14 13	13-0326	EA		20" x 12" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,889.12 428.96 772.14 321.72	395.65
33 14 13	13-0327	EA		20" x 14" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	4,977.40 434.86 782.74 326.14	415.05
33 14 13	13-0328	EA		20" x 16" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,011.06 534.11 961.39 400.58	442.18
33 14 13	13-0329	EA		20" x 18" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,252.50 551.60 992.88 413.70	486.08
33 14 13	13-0330	EA		20" x 20" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,771.05 592.48 1,066.47 444.36	558.46
33 14 13	13-0331	EA		24" x 6" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,783.60 510.72 919.30 383.04	446.41
33 14 13	13-0332	EA		24" x 8" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	5,919.43 522.51 940.51 391.88	458.06

**33 Utilities**

**33 10 Water Utilities**

**33 14 Water Utility Transmission and Distribution**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0333 EA 24" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,144.13 542.86 977.14 407.14	472.28
33 14 13 13-0334 EA 24" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,338.65 560.35 1,008.63 420.26	485.21
33 14 13 13-0335 EA 24" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,455.49 569.10 1,024.37 426.82	504.59
33 14 13 13-0336 EA 24" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	6,701.91 589.63 1,061.33 442.22	531.74
33 14 13 13-0337 EA 24" x 18" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	8,840.93 796.88 1,434.38 597.66	575.62
33 14 13 13-0338 EA 24" x 20" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	9,329.14 834.72 1,502.50 626.04	648.06
33 14 13 13-0339 EA 24" x 24" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	10,282.41 916.48 1,649.67 687.36	737.65
33 14 13 13-0340 EA 30" x 8" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,022.75 1,012.34 1,822.22 759.26	593.56
33 14 13 13-0341 EA 30" x 10" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,242.46 1,032.16 1,857.88 774.12	607.80
33 14 13 13-0342 EA 30" x 12" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,458.41 1,051.79 1,893.23 788.84	620.71
33 14 13 13-0343 EA 30" x 14" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	11,714.49 1,074.46 1,934.04 805.85	640.11
33 14 13 13-0344 EA 30" x 16" Mechanical Joint Ductile Iron Cross For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,009.09 1,099.81 1,979.66 824.86	667.24



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0345 EA 30" x 18" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,357.64 1,128.02 2,030.43 846.01	711.13
33 14 13 13-0346 EA 30" x 20" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	12,804.80 1,161.76 2,091.16 871.32	783.58
33 14 13 13-0347 EA 30" x 24" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,441.09 1,511.82 2,721.27 1,133.86	873.11
33 14 13 13-0348 EA 30" x 30" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	18,906.36 1,737.81 3,128.07 1,303.36	1,008.65
33 14 13 13-0349 EA 36" x 8" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,357.73 1,438.27 2,588.89 1,078.70	643.51
33 14 13 13-0350 EA 36" x 10" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,575.66 1,457.91 2,624.23 1,093.43	657.74
33 14 13 13-0351 EA 36" x 12" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,763.03 1,474.69 2,654.44 1,106.02	670.66
33 14 13 13-0352 EA 36" x 14" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	15,988.76 1,494.32 2,689.78 1,120.74	690.05
33 14 13 13-0353 EA 36" x 16" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,254.82 1,516.82 2,730.27 1,137.61	717.20
33 14 13 13-0354 EA 36" x 18" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,573.02 1,541.99 2,775.58 1,156.49	761.07
33 14 13 13-0355 EA 36" x 20" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	16,991.60 1,572.87 2,831.16 1,179.65	833.52
33 14 13 13-0356 EA 36" x 24" Mechanical Joint Ductile Iron Cross ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	17,716.37 1,631.78 2,937.20 1,223.83	923.08

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0357 EA 36" x 30" Mechanical Joint Ductile Iron Cross .....	23,837.58	1,058.58
For Cement Mortar Lining (CML), Add	2,223.37	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,002.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,667.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0358 EA 36" x 36" Mechanical Joint Ductile Iron Cross .....	26,183.93	1,108.58
For Cement Mortar Lining (CML), Add	2,450.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,410.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,837.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0359 EA 42" x 12" Mechanical Joint Ductile Iron Cross .....	20,590.92	699.53
For Cement Mortar Lining (CML), Add	1,953.10	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,515.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,464.83	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0360 EA 42" x 14" Mechanical Joint Ductile Iron Cross .....	23,272.53	718.93
For Cement Mortar Lining (CML), Add	2,218.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,992.98	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,663.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0361 EA 42" x 16" Mechanical Joint Ductile Iron Cross .....	21,063.06	746.07
For Cement Mortar Lining (CML), Add	1,993.27	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,587.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,494.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0362 EA 42" x 18" Mechanical Joint Ductile Iron Cross .....	21,345.56	789.96
For Cement Mortar Lining (CML), Add	2,014.87	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,626.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,511.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0363 EA 42" x 20" Mechanical Joint Ductile Iron Cross .....	21,749.87	862.41
For Cement Mortar Lining (CML), Add	2,044.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,679.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,533.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0364 EA 42" x 24" Mechanical Joint Ductile Iron Cross .....	22,422.87	951.95
For Cement Mortar Lining (CML), Add	2,098.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	3,776.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,573.54	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0365 EA 42" x 30" Mechanical Joint Ductile Iron Cross .....	28,690.45	1,087.46
For Cement Mortar Lining (CML), Add	2,704.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,867.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,028.21	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0366 EA 42" x 36" Mechanical Joint Ductile Iron Cross .....	37,432.89	1,137.41
For Cement Mortar Lining (CML), Add	3,570.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6,427.72	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,678.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0367 EA 42" x 42" Mechanical Joint Ductile Iron Cross .....	40,104.34	1,166.31
For Cement Mortar Lining (CML), Add	3,833.72	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	6,900.70	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2,875.29	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0368 EA 48" x 12" Mechanical Joint Ductile Iron Cross .....	27,821.23	814.21
For Cement Mortar Lining (CML), Add	2,658.76	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	4,785.76	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1,994.07	
Note: ANSI/AWWA C151/A21.51		





	<b>Utilities</b>	<b>33</b>	<b>CS</b>
	<b>Water Utilities</b>	<b>33 10</b>	
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0369	EA	48" x 14" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	28,011.27 2,674.82 4,814.68 2,006.12	833.61
33 14 13	13-0370	EA	48" x 16" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	28,266.61 2,696.25 4,853.24 2,022.18	860.74
33 14 13	13-0371	EA	48" x 18" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	28,547.31 2,717.67 4,891.80 2,038.25	904.63
33 14 13	13-0372	EA	48" x 20" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	28,926.64 2,744.62 4,940.32 2,058.47	977.08
33 14 13	13-0373	EA	48" x 24" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	29,571.08 2,795.50 5,031.90 2,096.62	1,066.61
33 14 13	13-0374	EA	48" x 30" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	31,306.25 2,948.48 5,307.27 2,211.36	1,202.13
33 14 13	13-0375	EA	48" x 36" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	38,329.60 3,643.25 6,557.85 2,732.44	1,252.08
33 14 13	13-0376	EA	48" x 42" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	49,239.40 4,729.85 8,513.74 3,547.39	1,280.96
33 14 13	13-0377	EA	48" x 48" Mechanical Joint Ductile Iron Cross <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	52,444.26 5,032.97 9,059.34 3,774.73	1,395.57
<b>33 14 13 13-0378 Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0002)</b>					
33 14 13	13-0379	EA	4" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	176.06 10.35 18.64 7.77	47.86
33 14 13	13-0380	EA	6" x 3" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	205.14 11.43 20.57 8.57	59.99
33 14 13	13-0381	EA	6" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	221.73 12.50 22.49 9.37	63.86

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0382 EA 8" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	280.51	71.97
For Cement Mortar Lining (CML), Add	17.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0383 EA 8" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	309.48	84.08
For Cement Mortar Lining (CML), Add	18.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.66	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0384 EA 10" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	339.15	76.56
For Cement Mortar Lining (CML), Add	22.31	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	40.17	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0385 EA 10" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	369.27	88.20
For Cement Mortar Lining (CML), Add	23.56	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	42.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0386 EA 10" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	404.24	95.96
For Cement Mortar Lining (CML), Add	25.88	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	46.59	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	19.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0387 EA 12" x 4" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	409.80	84.32
For Cement Mortar Lining (CML), Add	28.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.77	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.15	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0388 EA 12" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	456.00	95.96
For Cement Mortar Lining (CML), Add	31.06	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	55.91	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0389 EA 12" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	476.70	103.72
For Cement Mortar Lining (CML), Add	31.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	57.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0390 EA 12" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	521.97	111.23
For Cement Mortar Lining (CML), Add	35.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.62	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.51	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0391 EA 14" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	853.91	108.80
For Cement Mortar Lining (CML), Add	68.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	124.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	51.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0392 EA 14" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	829.96	116.58
For Cement Mortar Lining (CML), Add	65.34	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	117.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.00	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0393 EA 14" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	744.93	124.06
For Cement Mortar Lining (CML), Add	55.70	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	100.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	41.77	
Note: ANSI/AWWA C151/A21.51		



	<b>Utilities</b>	<b>33</b>
	<b>Water Utilities</b>	<b>33 10</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0394 EA 14" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	783.46 58.37 105.07 43.78	131.82
33 14 13 13-0395 EA 16" x 6" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,002.66 81.04 145.88 60.78	126.86
33 14 13 13-0396 EA 16" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	984.09 78.01 140.42 58.51	134.63
33 14 13 13-0397 EA 16" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	966.88 75.15 135.28 56.37	142.13
33 14 13 13-0398 EA 16" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,048.26 82.12 147.81 61.59	149.89
33 14 13 13-0399 EA 16" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,165.90 91.93 165.48 68.95	162.73
33 14 13 13-0400 EA 18" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,251.49 100.15 180.26 75.11	165.03
33 14 13 13-0401 EA 18" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,402.08 114.07 205.32 85.55	172.52
33 14 13 13-0402 EA 18" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,353.16 108.00 194.40 81.00	180.28
33 14 13 13-0403 EA 18" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,435.09 114.25 205.65 85.69	193.12
33 14 13 13-0404 EA 18" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,512.44 119.25 214.64 89.43	211.20
33 14 13 13-0405 EA 20" x 8" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,765.99 142.45 256.42 106.84	225.37

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0406 EA 20" x 10" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,695.23	232.86
For Cement Mortar Lining (CML), Add	134.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	241.63	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	100.68	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0407 EA 20" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,565.96	240.62
For Cement Mortar Lining (CML), Add	120.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	216.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	90.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0408 EA 20" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,576.50	253.46
For Cement Mortar Lining (CML), Add	119.25	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	214.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	89.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0409 EA 20" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,628.86	271.53
For Cement Mortar Lining (CML), Add	121.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	219.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	91.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0410 EA 20" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,951.61	301.92
For Cement Mortar Lining (CML), Add	149.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	268.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	112.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0411 EA 24" x 12" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,296.17	300.77
For Cement Mortar Lining (CML), Add	184.05	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	331.28	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	138.03	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0412 EA 24" x 14" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,362.05	313.62
For Cement Mortar Lining (CML), Add	188.69	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	339.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	141.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0413 EA 24" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,414.41	331.68
For Cement Mortar Lining (CML), Add	191.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	344.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	143.39	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0414 EA 24" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,376.56	362.07
For Cement Mortar Lining (CML), Add	182.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	329.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	137.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0415 EA 24" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,903.55	422.42
For Cement Mortar Lining (CML), Add	226.35	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	407.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	169.76	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0416 EA 30" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,717.72	374.43
For Cement Mortar Lining (CML), Add	415.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	747.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	311.28	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0417 EA 30" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,928.01	404.82
For Cement Mortar Lining (CML), Add	431.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	776.64	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	323.60	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0418	EA		30" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,780.22 407.54 733.58 305.66	465.15
33 14 13	13-0419	EA		30" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	4,676.78 388.09 698.55 291.06	525.32
33 14 13	13-0420	EA		36" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,069.47 631.40 1,136.51 473.55	498.64
33 14 13	13-0421	EA		36" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,859.26 501.26 902.27 375.95	558.78
33 14 13	13-0422	EA		36" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,363.18 545.18 981.32 408.88	601.53
33 14 13	13-0423	EA		42" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,172.10 852.57 1,534.63 639.43	426.61
33 14 13	13-0424	EA		42" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,139.61 844.72 1,520.49 633.54	457.00
33 14 13	13-0425	EA		42" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,202.48 841.86 1,515.35 631.40	517.34
33 14 13	13-0426	EA		42" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,270.08 939.51 1,691.12 704.63	577.50
33 14 13	13-0427	EA		42" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,481.89 754.21 1,357.58 565.66	620.23
33 14 13	13-0428	EA		42" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,878.91 788.85 1,419.92 591.63	653.71
33 14 13	13-0429	EA		48" x 16" Mechanical Joint x Mechanical Joint Ductile Iron Reducer..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	12,348.37 1,165.68 2,098.23 874.26	456.42

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0430 EA 48" x 18" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,976.71	486.82
For Cement Mortar Lining (CML), Add	1,123.91	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,023.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	842.93	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0431 EA 48" x 20" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,425.49	547.15
For Cement Mortar Lining (CML), Add	1,059.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,907.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	794.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0432 EA 48" x 24" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,786.19	607.30
For Cement Mortar Lining (CML), Add	1,086.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,955.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	814.95	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0433 EA 48" x 30" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,077.00	650.05
For Cement Mortar Lining (CML), Add	1,309.21	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,356.57	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	981.91	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0434 EA 48" x 36" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	12,340.80	683.53
For Cement Mortar Lining (CML), Add	1,130.52	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,034.93	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	847.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0435 EA 48" x 42" Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	13,543.75	702.23
For Cement Mortar Lining (CML), Add	1,247.98	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	2,246.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	935.98	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0436 Mechanical Joint Ductile Iron Caps (33 14 13 13-0002)</b>		
33 14 13 13-0437 EA 3" Mechanical Joint Ductile Iron Caps .....	199.53	101.05
For Cement Mortar Lining (CML), Add	4.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	8.35	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0438 EA 4" Mechanical Joint Ductile Iron Caps .....	227.85	118.57
For Cement Mortar Lining (CML), Add	4.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	8.68	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.62	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0439 EA 6" Mechanical Joint Ductile Iron Caps .....	310.26	148.22
For Cement Mortar Lining (CML), Add	8.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	15.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.43	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0440 EA 8" Mechanical Joint Ductile Iron Caps .....	399.47	169.41
For Cement Mortar Lining (CML), Add	14.28	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	25.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.71	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0441 EA 10" Mechanical Joint Ductile Iron Caps .....	572.21	258.65
For Cement Mortar Lining (CML), Add	18.03	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	32.45	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0442 EA 12" Mechanical Joint Ductile Iron Caps .....	697.09	282.18
For Cement Mortar Lining (CML), Add	26.96	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	48.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.22	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0443	EA		14" Mechanical Joint Ductile Iron Caps ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	879.07 40.88 73.58 30.66	310.39
33 14 13	13-0444	EA		16" Mechanical Joint Ductile Iron Caps ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,070.57 54.80 98.65 41.10	344.84
33 14 13	13-0445	EA		18" Mechanical Joint Ductile Iron Caps ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,257.27 66.94 120.50 50.21	387.99
33 14 13	13-0446	EA		20" Mechanical Joint Ductile Iron Caps ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,537.61 86.58 155.84 64.93	443.37
33 14 13	13-0447	EA		24" Mechanical Joint Ductile Iron Caps ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,972.70 118.89 214.00 89.17	517.32
33 14 13	13-0448	EA		30" Mechanical Joint Ductile Iron Caps ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,659.31 271.87 489.37 203.91	620.77
33 14 13	13-0449	EA		36" Mechanical Joint Ductile Iron Caps ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	6,120.50 494.48 890.06 370.86	775.97
33 14 13	13-0450	EA		42" Mechanical Joint Ductile Iron Caps ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	8,910.15 749.93 1,349.87 562.45	931.17
33 14 13	13-0451	EA		48" Mechanical Joint Ductile Iron Caps ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	10,603.90 903.63 1,626.53 677.72	1,034.62
33 14 13	13-0452			<b>Mechanical Joint Ductile Iron Plug</b> <small>(33 14 13 13-0002)</small>		
33 14 13	13-0453	EA		3" Mechanical Joint Ductile Iron Plug ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	206.67 5.36 9.64 4.02	101.05
33 14 13	13-0454	EA		4" Mechanical Joint Ductile Iron Plug ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	238.57 5.89 10.60 4.42	118.57
33 14 13	13-0455	EA		6" Mechanical Joint Ductile Iron Plug ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	338.82 11.43 20.57 8.57	148.22

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0456 EA 8" Mechanical Joint Ductile Iron Plug.....	428.03	169.41
For Cement Mortar Lining (CML), Add	17.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.85	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0457 EA 10" Mechanical Joint Ductile Iron Plug.....	688.23	258.65
For Cement Mortar Lining (CML), Add	29.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	53.34	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0458 EA 12" Mechanical Joint Ductile Iron Plug.....	729.23	282.18
For Cement Mortar Lining (CML), Add	30.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	54.30	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	22.63	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0459 EA 14" Mechanical Joint Ductile Iron Plug.....	1,084.36	310.39
For Cement Mortar Lining (CML), Add	61.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	110.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	46.06	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0460 EA 16" Mechanical Joint Ductile Iron Plug.....	601.09	344.84
For Cement Mortar Lining (CML), Add	7.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	14.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0461 EA 18" Mechanical Joint Ductile Iron Plug.....	1,562.53	387.99
For Cement Mortar Lining (CML), Add	97.47	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	175.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0462 EA 20" Mechanical Joint Ductile Iron Plug.....	1,953.55	443.37
For Cement Mortar Lining (CML), Add	128.17	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	230.71	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	96.13	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0463 EA 24" Mechanical Joint Ductile Iron Plug.....	2,561.79	517.32
For Cement Mortar Lining (CML), Add	177.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	320.04	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	133.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0464 EA 30" Mechanical Joint Ductile Iron Plug.....	4,469.75	620.77
For Cement Mortar Lining (CML), Add	352.92	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	635.25	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	264.69	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0465 EA 36" Mechanical Joint Ductile Iron Plug.....	6,627.48	775.97
For Cement Mortar Lining (CML), Add	545.18	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	981.32	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	408.88	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0466 EA 42" Mechanical Joint Ductile Iron Plug.....	8,974.41	931.17
For Cement Mortar Lining (CML), Add	756.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,361.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	567.27	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0467 EA 48" Mechanical Joint Ductile Iron Plug.....	11,649.98	1,034.62
For Cement Mortar Lining (CML), Add	1,008.24	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,814.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	756.18	
Note: ANSI/AWWA C151/A21.51		

33 14 13 13-0468 Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters (33 14 13 13-0002)





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13	13-0469	EA		3" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	348.77 11.60 20.89 8.70	153.61
33 14 13	13-0470	EA		4" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	394.45 12.50 22.49 9.37	177.86
33 14 13	13-0471	EA		6" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	510.02 17.32 31.17 12.99	222.32
33 14 13	13-0472	EA		8" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	647.39 26.24 47.23 19.68	254.06
33 14 13	13-0473	EA		10" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,044.84 45.70 82.26 34.27	387.99
33 14 13	13-0474	EA		12" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,226.82 58.55 105.39 43.91	423.26
33 14 13	13-0475	EA		14" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,635.47 93.01 167.41 69.75	465.58
33 14 13	13-0476	EA		16" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	1,845.96 106.22 191.19 79.66	517.32
33 14 13	13-0477	EA		18" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,506.24 162.45 292.40 121.83	581.97
33 14 13	13-0478	EA		20" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,942.82 193.51 348.31 145.13	665.10
33 14 13	13-0479	EA		24" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,558.86 238.31 428.97 178.74	775.97
33 14 13	13-0480	EA		30" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,796.90 438.60 789.49 328.95	931.17

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0481 EA 36" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	8,048.98	1,163.96
For Cement Mortar Lining (CML), Add	628.54	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,131.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	471.41	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0482 EA 42" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	10,778.65	1,330.20
For Cement Mortar Lining (CML), Add	876.32	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,577.37	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	657.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0483 EA 48" Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	13,326.34	1,551.94
For Cement Mortar Lining (CML), Add	1,097.49	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,975.49	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	823.12	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-0484 Mechanical Joint Ductile Iron Long Sleeves</b> (33 14 13 13-0002)		
33 14 13 13-0485 EA 3" Mechanical Joint Ductile Iron Long Sleeves.....	330.92	153.61
For Cement Mortar Lining (CML), Add	9.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	17.67	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0486 EA 4" Mechanical Joint Ductile Iron Long Sleeves.....	385.52	177.86
For Cement Mortar Lining (CML), Add	11.60	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.89	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.70	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0487 EA 6" Mechanical Joint Ductile Iron Long Sleeves.....	531.44	222.32
For Cement Mortar Lining (CML), Add	19.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	35.02	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	14.59	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0488 EA 8" Mechanical Joint Ductile Iron Long Sleeves.....	704.52	254.06
For Cement Mortar Lining (CML), Add	31.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	57.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	23.97	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0489 EA 10" Mechanical Joint Ductile Iron Long Sleeves.....	968.08	387.99
For Cement Mortar Lining (CML), Add	38.02	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	68.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	28.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0490 EA 12" Mechanical Joint Ductile Iron Long Sleeves.....	1,155.41	423.26
For Cement Mortar Lining (CML), Add	51.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	92.54	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.56	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0491 EA 14" Mechanical Joint Ductile Iron Long Sleeves.....	1,481.95	465.58
For Cement Mortar Lining (CML), Add	77.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	139.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	58.24	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0492 EA 16" Mechanical Joint Ductile Iron Long Sleeves.....	1,767.41	517.32
For Cement Mortar Lining (CML), Add	98.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	177.05	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	73.77	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-0493 EA 18" Mechanical Joint Ductile Iron Long Sleeves.....	2,140.29	581.97
For Cement Mortar Lining (CML), Add	125.85	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	226.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	94.39	
Note: ANSI/AWWA C151/A21.51		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 14 13	13-0494	EA	20" Mechanical Joint Ductile Iron Long Sleeves ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	2,526.89 151.91 273.45 113.94	665.10
	33 14 13	13-0495	EA	24" Mechanical Joint Ductile Iron Long Sleeves ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	3,176.84 200.11 360.20 150.08	775.97
	33 14 13	13-0496	EA	30" Mechanical Joint Ductile Iron Long Sleeves ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	5,602.32 419.15 754.46 314.36	931.17
	33 14 13	13-0497	EA	36" Mechanical Joint Ductile Iron Long Sleeves ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	7,649.11 588.55 1,059.40 441.42	1,163.96
	33 14 13	13-0498	EA	42" Mechanical Joint Ductile Iron Long Sleeves ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	9,885.58 787.24 1,417.03 590.43	1,328.67
	33 14 13	13-0499	EA	48" Mechanical Joint Ductile Iron Long Sleeves ..... <i>For Cement Mortar Lining (CML), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Fusion Bonded Epoxy Lining (206N), Add</i> <i>Note: ANSI/AWWA C104/A21.4</i> <i>For Bituminous Or Coal Tar Coating, 1 Mil, Add</i> <i>Note: ANSI/AWWA C151/A21.51</i>	13,410.24 1,105.88 1,990.59 829.41	1,551.94
	33 14 13	13-0500		<b>Mechanical Joint Ductile Iron Gland Packs</b> <small>(33 14 13 13-0002)</small> Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts.		
	33 14 13	13-0501		<b>Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts</b> <small>(33 14 13 13-0500)</small> Note: Labor installation is included with pipe fittings or valves.		
	33 14 13	13-0502	EA	3" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	35.70	
	33 14 13	13-0503	EA	4" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.	58.03	
	33 14 13	13-0504	EA	6" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	70.12	
	33 14 13	13-0505	EA	8" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.	82.21	
	33 14 13	13-0506	EA	10" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	113.65	
	33 14 13	13-0507	EA	12" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.	120.90	
	33 14 13	13-0508	EA	14" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.	198.28	
	33 14 13	13-0509	EA	16" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	210.37	
	33 14 13	13-0510	EA	18" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.	280.49	
	33 14 13	13-0511	EA	20" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.	362.70	
	33 14 13	13-0512	EA	24" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.	505.36	
	33 14 13	13-0513	EA	30" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.	1,206.58	
	33 14 13	13-0514	EA	36" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.	2,601.77	
	33 14 13	13-0515	EA	42" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.	3,798.68	
	33 14 13	13-0516	EA	48" Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts ..... Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.	4,661.90	
	33 14 13	13-0517		<b>Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts</b> <small>(33 14 13 13-0500)</small> Note: Labor installation is included with pipe fittings or valves.		
	33 14 13	13-0518	EA	3" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....	60.69	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0519 EA 4" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	82.21	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0520 EA 6" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	103.97	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0521 EA 8" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts.....	113.65	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0522 EA 10" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....	157.17	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0523 EA 12" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....	164.42	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0524 EA 14" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....	249.05	
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0525 EA 16" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....	273.23	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0526 EA 18" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....	362.70	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0527 EA 20" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....	469.09	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0528 EA 24" Mechanical Joint Gland, Gasket, Star Blue Fluoropolymer Coated T-Head Bolts And Nuts .....	655.28	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
<b>33 14 13 13-0529 Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts</b> <small>(33 14 13 13-0500)</small>		
Note: Labor installation is included with pipe fittings or valves.		
33 14 13 13-0530 EA 3" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts.....	39.27	
33 14 13 13-0531 EA 4" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	62.87	
Note: Includes four (4) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0532 EA 6" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	74.96	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0533 EA 8" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	89.47	
Note: Includes six (6) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0534 EA 10" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	123.32	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0535 EA 12" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	130.57	
Note: Includes eight (8) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0536 EA 14" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	215.20	
Note: Includes ten (10) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0537 EA 16" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	227.29	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0538 EA 18" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	307.09	
Note: Includes twelve (12) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0539 EA 20" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	394.13	
Note: Includes fourteen (14) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0540 EA 24" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	551.30	
Note: Includes sixteen (16) 3/4" diameter plain finish Boltss with nut.		
33 14 13 13-0541 EA 30" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	1,320.23	
Note: Includes twenty (20) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0542 EA 36" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	2,925.78	
Note: Includes twenty-four (24) 1" diameter plain finish Boltss with nut.		
33 14 13 13-0543 EA 42" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	4,236.34	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish Boltss with nut.		
33 14 13 13-0544 EA 48" Epoxy Coated Mechanical Joint Gland, Gasket, T-Head Bolts And Nuts .....	5,213.21	
Note: Includes thirty-two (32) 1-1/4" diameter plain finish Boltss with nut.		
<b>33 14 13 13-0545 Mechanical Joint Restraints With Accessories For Ductile Iron Pipe</b> <b>(MEGALUG® 1100DEC Series)</b> <small>(33 14 13 13-0002)</small>		
Note: Includes ductile iron retainer gland, gasket, break off torque bolts and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-0546 EA 3" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1103DSC).....	208.75	77.05
33 14 13 13-0547 EA 4" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1104DEC).....	238.22	91.25
33 14 13 13-0548 EA 6" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1106DEC).....	295.51	112.94
33 14 13 13-0549 EA 8" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1108DEC).....	368.48	131.81
33 14 13 13-0550 EA 10" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1110DEC).....	535.20	193.99
33 14 13 13-0551 EA 12" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1112DEC).....	659.35	221.74
33 14 13 13-0552 EA 14" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1114DEC).....	767.27	238.67
33 14 13 13-0553 EA 16" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1116DEC).....	944.57	258.65
33 14 13 13-0554 EA 18" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1118DEC).....	1,211.44	310.39
33 14 13 13-0555 EA 20" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1120DEC).....	1,429.29	344.72
33 14 13 13-0556 EA 24" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1124DEC).....	1,854.77	397.75
33 14 13 13-0557 EA 30" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1130DEC).....	3,592.81	476.98
33 14 13 13-0558 EA 36" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1136DEC).....	4,436.96	596.91
33 14 13 13-0559 EA 42" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1142DEC).....	6,543.05	688.73
33 14 13 13-0560 EA 48" Mechanical Joint Restraints For Ductile Iron Pipe (MEGALUG® 1148DEC).....	8,379.21	885.78
<b>33 14 13 13-0561 Mechanical Joint Ductile Iron Force Balanced Flexible Expansion Joint</b> <b>(FLEX-TEND®)</b> <small>(33 14 13 13-0002)</small>		
33 14 13 13-0562 EA 3" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,431.07	63.06
33 14 13 13-0563 EA 4" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	4,613.93	78.83
33 14 13 13-0564 EA 6" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	6,695.13	116.49
33 14 13 13-0565 EA 8" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	9,098.47	138.18



MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0566	EA 10" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	11,471.15	154.84
33 14 13 13-0567	EA 12" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	15,299.61	181.65
33 14 13 13-0568	EA 14" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	18,846.93	203.69
33 14 13 13-0569	EA 16" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	22,296.67	232.79
33 14 13 13-0570	EA 18" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	25,138.65	325.91
33 14 13 13-0571	EA 20" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	33,818.80	407.39
33 14 13 13-0572	EA 24" Mechanical Joint Ductile Iron FLEX-TEND® Force Balanced Flexible Expansion Joint.....	46,859.53	543.18
<b>33 14 13 13-0573</b>	<b>Set Screw Flange Adapter For Ductile Iron Pipe (E-Z Flange 1000DSM Series)</b> <small>(33 14 13 13-0002)</small>		
	Note: Includes machined bolts and gasket.		
33 14 13 13-0574	EA 3" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1003DSM) .....	207.27	77.05
33 14 13 13-0575	EA 4" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1004DSM) .....	265.77	91.25
33 14 13 13-0576	EA 6" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1006DSM) .....	343.29	112.94
33 14 13 13-0577	EA 8" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1008DSM) .....	391.91	131.81
33 14 13 13-0578	EA 10" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1010DSM).....	687.22	202.12
33 14 13 13-0579	EA 12" E-Z Flange Set Screw Flange Adapter For Ductile Iron Pipe (EBAA Iron 1012DSM).....	777.85	231.02
<b>33 14 13 13-0580</b>	<b>Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 2100 Series)</b> <small>(33 14 13 13-0002)</small>		
	Note: Includes nuts, bolts and gasket.		
33 14 13 13-0581	EA 3" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210300)).....	300.86	77.05
33 14 13 13-0582	EA 4" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210400) .....	374.05	91.25
33 14 13 13-0583	EA 6" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210600) .....	517.38	112.94
33 14 13 13-0584	EA 8" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 210800) .....	746.92	131.81
33 14 13 13-0585	EA 10" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211000) .....	1,082.48	202.12
33 14 13 13-0586	EA 12" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211200) .....	1,345.16	231.02
33 14 13 13-0587	EA 14" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211400) .....	2,068.77	248.67
33 14 13 13-0588	EA 16" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211600) .....	2,896.44	269.49
33 14 13 13-0589	EA 18" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 211800) .....	3,276.75	323.39
33 14 13 13-0590	EA 20" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212000) .....	3,619.68	359.16
33 14 13 13-0591	EA 24" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 212400) .....	4,378.21	414.40
33 14 13 13-0592	EA 30" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213000) .....	5,631.52	496.96
33 14 13 13-0593	EA 36" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 213600) .....	8,407.03	621.90
33 14 13 13-0594	EA 42" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214200) .....	21,896.21	1717.58
33 14 13 13-0595	EA 48" Restrained Flange Adapter For Ductile Iron Pipe (MEGAFLANGE® 214800) .....	28,046.07	922.87
<b>33 14 13 13-0596</b>	<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Piping</b> <small>(33 14 13 13-0001)</small>		
	Note: . See CSI section 33 14 13 13-0500 for bolts and gaskets.		
<b>33 14 13 13-0597</b>	<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-0598	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	446.87	43.98
33 14 13 13-0599	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	534.83	52.68
33 14 13 13-0600	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	829.86	77.17
33 14 13 13-0601	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	1,133.94	91.87
33 14 13 13-0602	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	1,555.90	103.47
33 14 13 13-0603	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	1,972.09	121.10
33 14 13 13-0604	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	2,801.30	136.38
33 14 13 13-0605	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	3,398.37	155.20
33 14 13 13-0606	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	4,108.26	217.51
33 14 13 13-0607	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	5,120.63	271.59
33 14 13 13-0608	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	7,238.67	362.12
33 14 13 13-0609	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	11,578.83	387.99
33 14 13 13-0610	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	17,044.04	403.27
33 14 13 13-0611	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	28,069.52	465.58
33 14 13 13-0612	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 90 Degree Elbow .....	36,711.70	494.98
<b>33 14 13 13-0613</b>	<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-0614	EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	427.23	43.98
33 14 13 13-0615	EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	500.91	52.68
33 14 13 13-0616	EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	770.95	77.17
33 14 13 13-0617	EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	1,042.90	91.87
33 14 13 13-0618	EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	1,363.11	103.47
33 14 13 13-0619	EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	1,798.93	121.10
33 14 13 13-0620	EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	2,430.00	136.38
33 14 13 13-0621	EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	2,909.25	155.20
33 14 13 13-0622	EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	3,442.41	217.51
33 14 13 13-0623	EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	4,179.87	271.59
33 14 13 13-0624	EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	5,508.89	362.12
33 14 13 13-0625	EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	10,120.39	387.99
33 14 13 13-0626	EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	13,986.13	403.27
33 14 13 13-0627	EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	20,775.52	465.58
33 14 13 13-0628	EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 45 Degree Elbow .....	26,590.07	494.98

MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0629			<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-0630	EA		3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	332.62	43.98
33 14 13 13-0631	EA		4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	495.55	52.68
33 14 13 13-0632	EA		6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	749.53	77.17
33 14 13 13-0633	EA		8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,035.76	91.87
33 14 13 13-0634	EA		10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,361.33	103.47
33 14 13 13-0635	EA		12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	1,695.40	121.10
33 14 13 13-0636	EA		14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,444.28	136.38
33 14 13 13-0637	EA		16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	2,844.99	155.20
33 14 13 13-0638	EA		18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	3,426.34	217.51
33 14 13 13-0639	EA		20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	4,328.03	271.59
33 14 13 13-0640	EA		24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	5,391.07	362.12
33 14 13 13-0641	EA		30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	9,008.26	387.99
33 14 13 13-0642	EA		36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	12,290.27	403.27
33 14 13 13-0643	EA		42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	17,581.94	465.58
33 14 13 13-0644	EA		48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 22-1/2 Degree Elbow	22,507.50	494.98
33 14 13 13-0645			<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-0646	EA		3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	332.62	43.98
33 14 13 13-0647	EA		4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	593.73	52.68
33 14 13 13-0648	EA		6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	756.67	77.17
33 14 13 13-0649	EA		8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,003.63	91.87
33 14 13 13-0650	EA		10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,357.76	103.47
33 14 13 13-0651	EA		12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	1,647.20	121.10
33 14 13 13-0652	EA		14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,631.72	136.38
33 14 13 13-0653	EA		16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	2,932.46	155.20
33 14 13 13-0654	EA		18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	3,933.32	217.51
33 14 13 13-0655	EA		20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	4,174.51	271.59
33 14 13 13-0656	EA		24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	5,392.86	362.12
33 14 13 13-0657	EA		30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	9,126.08	387.99
33 14 13 13-0658	EA		36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	11,952.88	403.27
33 14 13 13-0659	EA		42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	17,099.96	465.58
33 14 13 13-0660	EA		48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron 11-1/4 Degree Elbow	22,378.97	494.98
33 14 13 13-0661			<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-0662	EA		3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	391.53	43.98
33 14 13 13-0663	EA		4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	575.88	52.68
33 14 13 13-0664	EA		6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	897.70	77.17
33 14 13 13-0665	EA		8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,219.63	91.87
33 14 13 13-0666	EA		10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	1,680.86	103.47
33 14 13 13-0667	EA		12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	2,109.54	121.10
33 14 13 13-0668	EA		14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	3,788.48	136.38
33 14 13 13-0669	EA		16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	5,910.04	155.20
33 14 13 13-0670	EA		18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	6,755.59	217.51
33 14 13 13-0671	EA		20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	7,787.60	271.59
33 14 13 13-0672	EA		24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 90 Degree Elbow	8,423.99	362.12
33 14 13 13-0673			<b>Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-0674	EA		3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	391.53	43.98
33 14 13 13-0675	EA		4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	508.05	52.68
33 14 13 13-0676	EA		6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	799.52	77.17
33 14 13 13-0677	EA		8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,130.37	91.87
33 14 13 13-0678	EA		10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,500.57	103.47
33 14 13 13-0679	EA		12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow	1,952.45	121.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0680 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	2,601.37	136.38
33 14 13 13-0681 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	3,125.25	155.20
33 14 13 13-0682 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	5,845.16	217.51
33 14 13 13-0683 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	6,134.57	271.59
33 14 13 13-0684 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Plain End (MJxPE) Ductile Iron 45 Degree Elbow .....	6,392.52	362.12
<b>33 14 13 13-0685 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-0686 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	551.59	65.98
33 14 13 13-0687 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	601.82	74.38
33 14 13 13-0688 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	635.28	77.17
33 14 13 13-0689 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	905.11	97.82
33 14 13 13-0690 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	980.84	101.67
33 14 13 13-0691 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,034.92	113.92
33 14 13 13-0692 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,203.52	117.60
33 14 13 13-0693 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,302.22	129.84
33 14 13 13-0694 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,324.30	138.42
33 14 13 13-0695 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,617.12	128.15
33 14 13 13-0696 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,615.12	139.91
33 14 13 13-0697 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,750.07	148.14
33 14 13 13-0698 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,888.16	155.20
33 14 13 13-0699 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,945.90	143.44
33 14 13 13-0700 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	1,963.52	155.20
33 14 13 13-0701 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,123.45	163.42
33 14 13 13-0702 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,447.20	170.48
33 14 13 13-0703 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,453.60	178.71
33 14 13 13-0704 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	2,778.96	181.06
33 14 13 13-0705 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,006.72	189.29
33 14 13 13-0706 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,648.23	196.34
33 14 13 13-0707 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,850.99	204.58
33 14 13 13-0708 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,568.77	217.51
33 14 13 13-0709 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,324.51	217.51
33 14 13 13-0710 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,504.19	224.56
33 14 13 13-0711 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,202.81	232.79
33 14 13 13-0712 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	3,943.25	239.85
33 14 13 13-0713 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,142.66	252.78
33 14 13 13-0714 EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,654.13	271.59
33 14 13 13-0715 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,364.62	278.64
33 14 13 13-0716 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,603.10	285.70
33 14 13 13-0717 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	4,905.43	292.75
33 14 13 13-0718 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,184.96	300.98
33 14 13 13-0719 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,327.59	313.91
33 14 13 13-0720 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,692.34	331.55
33 14 13 13-0721 EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,354.26	362.12
33 14 13 13-0722 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,020.53	398.56
33 14 13 13-0723 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,105.49	406.80
33 14 13 13-0724 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,609.53	413.85
33 14 13 13-0725 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,885.49	422.08
33 14 13 13-0726 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,944.22	435.01
33 14 13 13-0727 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	5,869.84	452.65
33 14 13 13-0728 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,501.09	483.22
33 14 13 13-0729 EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,400.04	543.18
33 14 13 13-0730 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,095.37	518.49
33 14 13 13-0731 EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,153.55	527.90
33 14 13 13-0732 EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,264.88	533.78
33 14 13 13-0733 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	6,430.14	542.00
33 14 13 13-0734 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,311.81	554.93
33 14 13 13-0735 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	7,626.60	572.58
33 14 13 13-0736 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,382.80	603.14
33 14 13 13-0737 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,688.43	664.28
33 14 13 13-0738 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	9,092.30	724.24
33 14 13 13-0739 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,659.13	604.31
33 14 13 13-0740 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,149.65	612.55
33 14 13 13-0741 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	10,726.88	619.60
33 14 13 13-0742 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,306.31	627.84
33 14 13 13-0743 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,129.08	640.76
33 14 13 13-0744 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,016.87	852.39
33 14 13 13-0745 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,959.39	688.97
33 14 13 13-0746 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,945.49	748.93
33 14 13 13-0747 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,488.27	808.89
33 14 13 13-0748 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	16,098.62	852.39
33 14 13 13-0749 EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	11,002.62	679.56
33 14 13 13-0750 EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	12,309.97	686.62
33 14 13 13-0751 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,016.14	694.85
33 14 13 13-0752 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	13,515.79	707.78

<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 14</b>	<b>Water Utility Transmission and Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 13-0753	EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,018.00	725.41
33 14 13 13-0754	EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	14,985.18	755.99
33 14 13 13-0755	EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	15,999.51	815.94
33 14 13 13-0756	EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	17,727.61	875.91
33 14 13 13-0757	EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	20,020.21	952.33
33 14 13 13-0758	EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	23,066.35	952.33
33 14 13 13-0759	EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,261.29	732.47
33 14 13 13-0760	EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	26,789.52	744.22
33 14 13 13-0761	EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,462.44	763.04
33 14 13 13-0762	EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,582.13	793.60
33 14 13 13-0763	EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,673.55	853.57
33 14 13 13-0764	EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	27,855.95	913.53
33 14 13 13-0765	EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	28,354.50	957.03
33 14 13 13-0766	EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	35,127.97	989.95
33 14 13 13-0767	EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	37,027.13	1,008.76
33 14 13 13-0768	EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	30,625.22	791.26
33 14 13 13-0769	EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,174.85	804.19
33 14 13 13-0770	EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	31,955.54	823.00
33 14 13 13-0771	EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	32,749.56	852.39
33 14 13 13-0772	EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,594.31	913.53
33 14 13 13-0773	EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	33,785.41	973.48
33 14 13 13-0774	EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,276.17	1,015.81
33 14 13 13-0775	EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	29,173.89	1,049.91
33 14 13 13-0776	EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	36,585.50	1,068.73
33 14 13 13-0777	EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Tee.....	48,742.71	1,098.12

**33 14 13 13-0778 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Laterals)** (33 14 13 13-0596)

33 14 13 13-0779	EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	618.69	73.73
33 14 13 13-0780	EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	681.17	73.73
33 14 13 13-0781	EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	799.52	77.17
33 14 13 13-0782	EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	881.90	97.82
33 14 13 13-0783	EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	984.41	101.67
33 14 13 13-0784	EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,204.51	113.92
33 14 13 13-0785	EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,583.75	117.60
33 14 13 13-0786	EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,459.31	129.84
33 14 13 13-0787	EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	1,641.16	138.42
33 14 13 13-0788	EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,329.38	128.15
33 14 13 13-0789	EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,425.57	139.91
33 14 13 13-0790	EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,714.03	148.14
33 14 13 13-0791	EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,359.83	155.20
33 14 13 13-0792	EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	2,843.81	143.44
33 14 13 13-0793	EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,225.60	155.20
33 14 13 13-0794	EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,819.32	163.42
33 14 13 13-0795	EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,821.74	170.48
33 14 13 13-0796	EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	3,524.67	178.71
33 14 13 13-0797	EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,192.78	181.06
33 14 13 13-0798	EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,822.19	189.29
33 14 13 13-0799	EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,359.83	196.34
33 14 13 13-0800	EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,821.43	204.58
33 14 13 13-0801	EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,644.53	217.51
33 14 13 13-0802	EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,361.78	217.51
33 14 13 13-0803	EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	4,819.83	224.56
33 14 13 13-0804	EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,725.52	232.79
33 14 13 13-0805	EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	5,906.88	239.85
33 14 13 13-0806	EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,322.29	252.78
33 14 13 13-0807	EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,921.23	271.59
33 14 13 13-0808	EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,185.44	278.64
33 14 13 13-0809	EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	6,673.84	285.70
33 14 13 13-0810	EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,145.76	292.75
33 14 13 13-0811	EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,657.35	300.98
33 14 13 13-0812	EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,733.93	313.91
33 14 13 13-0813	EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,820.21	331.55
33 14 13 13-0814	EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,079.02	362.12
33 14 13 13-0815	EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,273.35	398.56
33 14 13 13-0816	EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	7,433.28	406.80
33 14 13 13-0817	EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	8,194.38	413.85
33 14 13 13-0818	EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	8,948.75	422.08
33 14 13 13-0819	EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	9,030.69	435.01
33 14 13 13-0820	EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	9,125.90	452.65
33 14 13 13-0821	EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	10,610.76	483.22
33 14 13 13-0822	EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	9,973.86	543.18
33 14 13 13-0823	EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	8,810.53	518.49
33 14 13 13-0824	EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	8,924.06	526.72
33 14 13 13-0825	EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	9,985.07	533.78
33 14 13 13-0826	EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	10,466.29	542.00
33 14 13 13-0827	EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	12,147.70	554.93
33 14 13 13-0828	EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	13,537.14	572.58
33 14 13 13-0829	EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	15,180.87	603.14
33 14 13 13-0830	EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral).....	16,678.96	664.28





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0831 EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	14,676.16	724.24
33 14 13 13-0832 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	18,617.20	604.31
33 14 13 13-0833 EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	20,931.77	612.55
33 14 13 13-0834 EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	22,173.07	619.60
33 14 13 13-0835 EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	23,416.57	627.84
33 14 13 13-0836 EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	25,178.30	640.76
33 14 13 13-0837 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	27,071.12	658.40
33 14 13 13-0838 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	27,741.96	688.97
33 14 13 13-0839 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	28,706.32	748.93
33 14 13 13-0840 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	30,055.97	808.89
33 14 13 13-0841 EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	32,598.48	852.39
33 14 13 13-0842 EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	35,987.07	694.85
33 14 13 13-0843 EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	37,411.41	707.78
33 14 13 13-0844 EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	38,825.82	725.41
33 14 13 13-0845 EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	41,558.47	755.99
33 14 13 13-0846 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	44,347.22	815.94
33 14 13 13-0847 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	49,218.91	875.91
33 14 13 13-0848 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	55,194.21	919.41
33 14 13 13-0849 EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	66,003.84	952.33
33 14 13 13-0850 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	58,065.43	853.57
33 14 13 13-0851 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	59,479.36	913.53
33 14 13 13-0852 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	63,553.49	957.03
33 14 13 13-0853 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	72,774.37	989.95
33 14 13 13-0854 EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	85,982.26	1,008.76
33 14 13 13-0855 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	57,216.80	913.53
33 14 13 13-0856 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	64,859.00	973.48
33 14 13 13-0857 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	69,145.58	1,015.81
33 14 13 13-0858 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	78,921.62	1,049.91
33 14 13 13-0859 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	103,473.95	1,068.73
33 14 13 13-0860 EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Wye (Lateral) .....	113,671.09	1,098.12
<b>33 14 13 13-0861 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-0862 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	1,100.97	113.92
33 14 13 13-0863 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	1,370.05	129.84
33 14 13 13-0864 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	1,972.15	139.91
33 14 13 13-0865 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	2,270.56	155.20
33 14 13 13-0866 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	3,005.67	181.06
33 14 13 13-0867 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	3,662.01	217.51
33 14 13 13-0868 EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	4,319.99	278.64
33 14 13 13-0869 EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	5,804.19	398.56
33 14 13 13-0870 EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	6,770.01	518.49
33 14 13 13-0871 EA 30" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Hydrant Tee .....	12,335.36	604.31
<b>33 14 13 13-0872 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-0873 EA 3" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	613.48	87.97
33 14 13 13-0874 EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	768.04	95.72
33 14 13 13-0875 EA 4" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	962.80	96.77
33 14 13 13-0876 EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,019.00	119.97
33 14 13 13-0877 EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,193.87	129.84
33 14 13 13-0878 EA 6" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,316.05	161.69
33 14 13 13-0879 EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,267.61	142.10
33 14 13 13-0880 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,493.33	173.95
33 14 13 13-0881 EA 8" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,476.03	186.19
33 14 13 13-0882 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,494.78	150.49
33 14 13 13-0883 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,673.89	181.06
33 14 13 13-0884 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,991.44	192.82
33 14 13 13-0885 EA 10" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	2,157.61	206.92
33 14 13 13-0886 EA 12 x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	1,924.91	163.42
33 14 13 13-0887 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	2,227.21	193.99
33 14 13 13-0888 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	2,418.02	205.75
33 14 13 13-0889 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	2,823.39	219.85
33 14 13 13-0890 EA 12" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	3,226.75	232.79
33 14 13 13-0891 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	3,340.16	212.80
33 14 13 13-0892 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	3,964.75	224.56
33 14 13 13-0893 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	4,059.51	239.85
33 14 13 13-0894 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	4,284.36	251.60
33 14 13 13-0895 EA 14" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross .....	4,749.32	271.59

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 14 13 13-0896	EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	3,738.32	241.02
33 14 13 13-0897	EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	4,280.78	251.60
33 14 13 13-0898	EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,168.14	266.89
33 14 13 13-0899	EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	5,782.16	279.82
33 14 13 13-0900	EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,030.78	298.64
33 14 13 13-0901	EA 16" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,336.08	325.67
33 14 13 13-0902	EA 18" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,475.34	284.52
33 14 13 13-0903	EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	6,851.81	296.28
33 14 13 13-0904	EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,173.27	310.39
33 14 13 13-0905	EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	7,794.42	323.32
33 14 13 13-0906	EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,137.65	342.13
33 14 13 13-0907	EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,719.67	369.17
33 14 13 13-0908	EA 18" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	10,144.97	413.85
33 14 13 13-0909	EA 20" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,141.74	357.42
33 14 13 13-0910	EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,521.77	368.00
33 14 13 13-0911	EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	8,780.75	383.29
33 14 13 13-0912	EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,396.55	396.21
33 14 13 13-0913	EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	9,547.31	415.02
33 14 13 13-0914	EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,623.48	442.07
33 14 13 13-0915	EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,048.79	485.57
33 14 13 13-0916	EA 20" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,997.55	558.46
33 14 13 13-0917	EA 24" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,151.45	446.77
33 14 13 13-0918	EA 24" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,410.46	458.53
33 14 13 13-0919	EA 24" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	11,849.37	472.64
33 14 13 13-0920	EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,227.76	485.57
33 14 13 13-0921	EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,435.64	504.38
33 14 13 13-0922	EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	12,898.06	531.42
33 14 13 13-0923	EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,214.92	576.10
33 14 13 13-0924	EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,101.22	647.82
33 14 13 13-0925	EA 24" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,914.91	737.17
33 14 13 13-0926	EA 30" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,318.86	593.73
33 14 13 13-0927	EA 30" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,661.76	607.84
33 14 13 13-0928	EA 30" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	17,999.09	620.77
33 14 13 13-0929	EA 30" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,396.19	639.59
33 14 13 13-0930	EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	18,849.67	667.81
33 14 13 13-0931	EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	19,373.16	711.30
33 14 13 13-0932	EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	20,029.18	783.02
33 14 13 13-0933	EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	25,843.32	873.56
33 14 13 13-0934	EA 30" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	29,713.49	1,008.76
33 14 13 13-0935	EA 36" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,302.97	643.11
33 14 13 13-0936	EA 36" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,642.28	657.23
33 14 13 13-0937	EA 36" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	24,934.97	670.15
33 14 13 13-0938	EA 36" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	25,282.09	690.15
33 14 13 13-0939	EA 36" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	25,687.40	717.19
33 14 13 13-0940	EA 36" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,162.68	760.68
33 14 13 13-0941	EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	26,774.06	833.58
33 14 13 13-0942	EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	27,864.78	922.93
33 14 13 13-0943	EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,665.12	1,058.14
33 14 13 13-0944	EA 36" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	41,423.49	1,108.70
33 14 13 13-0945	EA 42" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	32,736.87	699.54
33 14 13 13-0946	EA 42" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	33,417.81	718.36
33 14 13 13-0947	EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	33,810.60	746.58
33 14 13 13-0948	EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	34,353.73	790.08
33 14 13 13-0949	EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	35,334.64	862.98
33 14 13 13-0950	EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	37,421.44	952.33
33 14 13 13-0951	EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,508.07	1,087.53
33 14 13 13-0952	EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	59,641.57	1,136.92
33 14 13 13-0953	EA 42" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	63,946.41	1,166.31
33 14 13 13-0954	EA 48" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	44,356.79	814.77
33 14 13 13-0955	EA 48" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	44,646.80	833.58
33 14 13 13-0956	EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,034.24	860.62
33 14 13 13-0957	EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,448.82	904.12
33 14 13 13-0958	EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	45,995.96	977.02
33 14 13 13-0959	EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	46,956.36	1,066.37
33 14 13 13-0960	EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	49,643.00	1,201.57
33 14 13 13-0961	EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	60,988.13	1,252.13
33 14 13 13-0962	EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	78,654.61	1,281.53
33 14 13 13-0963	EA 48" x 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Cross	83,744.56	1,395.57

**33 14 13 13-0964 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducers (33 14 13 13-0966)**

33 14 13 13-0965	EA 4" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	438.47	47.86
33 14 13 13-0966	EA 6" x 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	613.93	59.99
33 14 13 13-0967	EA 6" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	675.15	63.69
33 14 13 13-0968	EA 8" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer	887.45	72.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-0969 EA 8" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	921.78	84.52
33 14 13 13-0970 EA 10" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,088.90	76.42
33 14 13 13-0971 EA 10" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,138.65	88.18
33 14 13 13-0972 EA 10" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,184.34	96.41
33 14 13 13-0973 EA 12" x 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,259.52	84.65
33 14 13 13-0974 EA 12" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,393.19	96.41
33 14 13 13-0975 EA 12" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,415.67	103.47
33 14 13 13-0976 EA 12" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,478.80	111.69
33 14 13 13-0977 EA 14" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,183.82	109.35
33 14 13 13-0978 EA 14" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,195.58	116.40
33 14 13 13-0979 EA 14" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,908.83	124.62
33 14 13 13-0980 EA 14" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	1,947.36	131.68
33 14 13 13-0981 EA 16" x 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,618.20	126.98
33 14 13 13-0982 EA 16" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,538.93	135.20
33 14 13 13-0983 EA 16" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,382.48	142.26
33 14 13 13-0984 EA 16" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,353.18	149.32
33 14 13 13-0985 EA 16" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,661.83	162.25
33 14 13 13-0986 EA 18" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	2,843.82	164.60
33 14 13 13-0987 EA 18" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,208.62	172.83
33 14 13 13-0988 EA 18" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,063.30	179.88
33 14 13 13-0989 EA 18" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,664.70	192.82
33 14 13 13-0990 EA 18" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,204.73	211.63
33 14 13 13-0991 EA 20" x 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,786.74	225.73
33 14 13 13-0992 EA 20" x 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,815.95	232.79
33 14 13 13-0993 EA 20" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,463.54	241.02
33 14 13 13-0994 EA 20" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,459.80	253.96
33 14 13 13-0995 EA 20" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,372.92	271.59
33 14 13 13-0996 EA 20" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	3,992.00	302.16
33 14 13 13-0997 EA 24" x 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,768.56	300.98
33 14 13 13-0998 EA 24" x 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,838.01	313.91
33 14 13 13-0999 EA 24" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,922.51	331.55
33 14 13 13-1000 EA 24" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	4,843.60	362.12
33 14 13 13-1001 EA 24" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	5,586.59	422.08
33 14 13 13-1002 EA 30" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,718.18	373.88
33 14 13 13-1003 EA 30" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	9,087.33	404.44
33 14 13 13-1004 EA 30" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	8,746.76	465.58
33 14 13 13-1005 EA 30" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	7,399.09	525.54
33 14 13 13-1006 EA 36" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,498.35	498.50
33 14 13 13-1007 EA 36" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	10,677.30	558.46
33 14 13 13-1008 EA 36" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	11,399.00	601.97
33 14 13 13-1009 EA 42" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	17,046.27	426.79
33 14 13 13-1010 EA 42" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,942.37	457.35

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1011 EA 42" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	16,978.46	517.32
33 14 13 13-1012 EA 42" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	17,639.05	577.27
33 14 13 13-1013 EA 42" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	14,397.78	620.77
33 14 13 13-1014 EA 42" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	15,066.13	653.69
33 14 13 13-1015 EA 48" x 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	21,491.76	456.18
33 14 13 13-1016 EA 48" x 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	20,791.63	486.74
33 14 13 13-1017 EA 48" x 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	19,737.01	546.71
33 14 13 13-1018 EA 48" x 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	20,308.35	607.84
33 14 13 13-1019 EA 48" x 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	24,345.01	650.17
33 14 13 13-1020 EA 48" x 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	21,039.69	683.08
33 14 13 13-1021 EA 48" x 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Mechanical Joint Ductile Iron Reducer.....	23,145.91	701.90
<b>33 14 13 13-1022 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-1023 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	397.68	101.05
33 14 13 13-1024 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	479.56	118.82
33 14 13 13-1025 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	702.98	148.22
33 14 13 13-1026 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	943.93	169.04
33 14 13 13-1027 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,257.68	258.65
33 14 13 13-1028 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,587.87	282.18
33 14 13 13-1029 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	1,805.55	310.39
33 14 13 13-1030 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,198.77	344.49
33 14 13 13-1031 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	2,576.47	387.99
33 14 13 13-1032 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	3,108.52	443.24
33 14 13 13-1033 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	3,988.10	517.32
33 14 13 13-1034 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	7,250.97	620.77
33 14 13 13-1035 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	11,897.15	775.97
33 14 13 13-1036 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	17,155.62	931.17
33 14 13 13-1037 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Caps.....	20,430.98	1,034.62
<b>33 14 13 13-1038 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-1039 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	399.47	101.05
33 14 13 13-1040 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	497.41	118.82
33 14 13 13-1041 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	749.40	148.22
33 14 13 13-1042 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	990.34	169.04
33 14 13 13-1043 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,523.67	258.65
33 14 13 13-1044 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	1,648.56	282.18
33 14 13 13-1045 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,192.92	310.39
33 14 13 13-1046 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	2,646.83	344.49
33 14 13 13-1047 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,149.50	387.99
33 14 13 13-1048 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	3,883.26	443.24
33 14 13 13-1049 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	5,091.30	517.32
33 14 13 13-1050 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	8,775.46	620.77
33 14 13 13-1051 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	12,845.05	775.97
33 14 13 13-1052 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	17,275.22	931.17
33 14 13 13-1053 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Plug.....	22,967.64	1,034.62
<b>33 14 13 13-1054 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters</b> <small>(33 14 13 13-0596)</small>		
33 14 13 13-1055 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	541.57	153.61
33 14 13 13-1056 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	717.56	177.62
33 14 13 13-1057 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	988.43	222.94
33 14 13 13-1058 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,300.75	253.57
33 14 13 13-1059 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	1,923.12	387.99
33 14 13 13-1060 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	2,297.89	423.26
33 14 13 13-1061 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,008.22	465.58
33 14 13 13-1062 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters.....	3,415.08	517.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1063 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	4,484.15	581.97
33 14 13 13-1064 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	5,201.00	665.45
33 14 13 13-1065 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	6,297.23	775.97
33 14 13 13-1066 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	9,916.96	931.17
33 14 13 13-1067 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	13,493.59	1,163.96
33 14 13 13-1068 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	18,368.99	1,329.73
33 14 13 13-1069 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint x Flanged End (MJxFE) Ductile Iron Adapters .....	22,833.89	1,551.94
<b>33 14 13 13-1070 Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves <small>(33 14 13 13-0596)</small></b>		
33 14 13 13-1071 EA 3" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	562.99	153.61
33 14 13 13-1072 EA 4" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	690.78	177.62
33 14 13 13-1073 EA 6" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	1,018.78	222.94
33 14 13 13-1074 EA 8" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	1,382.86	253.57
33 14 13 13-1075 EA 10" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	1,808.87	387.99
33 14 13 13-1076 EA 12" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	2,190.78	423.26
33 14 13 13-1077 EA 14" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	2,779.73	465.58
33 14 13 13-1078 EA 16" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	3,293.69	517.32
33 14 13 13-1079 EA 18" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	3,934.34	581.97
33 14 13 13-1080 EA 20" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	4,581.56	665.45
33 14 13 13-1081 EA 24" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	5,729.56	775.97
33 14 13 13-1082 EA 30" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	9,622.41	931.17
33 14 13 13-1083 EA 36" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	12,509.99	1,163.96
33 14 13 13-1084 EA 42" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	16,292.37	1,328.55
33 14 13 13-1085 EA 48" Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Mechanical Joint Ductile Iron Long Sleeves .....	24,217.35	1,551.94
<b>33 14 13 13-1086 Push-On Joint Ductile Iron Piping <small>(33 14 13 13-0001)</small></b>		
<b>33 14 13 13-1087 Push-On Joint Ductile Iron Pipe <small>(33 14 13 13-1086)</small></b>		
Note: Conforming to ANSI/AWWA C151/A21.51, federal specification WW-P-421D.		
33 14 13 13-1088 LF 4", Class 50, Push-On Joint Ductile Iron Pipe.....	36.10	10.11
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	14.55	
For Cement Mortar Lining (CML), Add	2.08	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	11.23	
For Fusion Bonded Epoxy Lining (206N), Add	3.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.56	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.81	
For Class 51, Add	3.03	
For Class 52, Add	6.52	
For Class 53, Add	11.72	
For Class 54, Add	16.70	
For Class 55, Add	19.22	
For Class 56, Add	21.70	
33 14 13 13-1089 LF 6", Class 50, Push-On Joint Ductile Iron Pipe.....	39.59	11.14
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	15.97	
For Cement Mortar Lining (CML), Add	2.28	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	12.32	
For Fusion Bonded Epoxy Lining (206N), Add	4.11	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	1.71	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-1.98	
For Class 51, Add	3.32	
For Class 52, Add	7.15	
For Class 53, Add	12.85	
For Class 54, Add	18.32	
For Class 55, Add	21.09	
For Class 56, Add	23.81	

**33 Utilities**  
**33 10 Water Utilities**  
**33 14 Water Utility Transmission and Distribution**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1090 LF 8", Class 50, Push-On Joint Ductile Iron Pipe.....	49.56	12.25
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	21.83	
For Cement Mortar Lining (CML), Add	3.12	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	16.84	
For Fusion Bonded Epoxy Lining (206N), Add	5.61	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	2.34	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-2.48	
For Class 51, Add	4.48	
For Class 52, Add	9.66	
For Class 53, Add	17.40	
For Class 54, Add	24.82	
For Class 55, Add	28.55	
For Class 56, Add	32.21	
33 14 13 13-1091 LF 10", Class 50, Push-On Joint Ductile Iron Pipe.....	70.44	17.52
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	26.39	
For Cement Mortar Lining (CML), Add	4.40	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	22.00	
For Fusion Bonded Epoxy Lining (206N), Add	7.92	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.30	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-3.52	
For Class 51, Add	6.33	
For Class 52, Add	13.64	
For Class 53, Add	24.57	
For Class 54, Add	35.04	
For Class 55, Add	40.30	
For Class 56, Add	45.47	
33 14 13 13-1092 LF 12", Class 50, Push-On Joint Ductile Iron Pipe.....	81.84	19.40
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	26.23	
For Cement Mortar Lining (CML), Add	5.25	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	20.98	
For Fusion Bonded Epoxy Lining (206N), Add	9.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	3.93	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-4.09	
For Class 51, Add	7.52	
For Class 52, Add	16.21	
For Class 53, Add	29.21	
For Class 54, Add	41.67	
For Class 55, Add	47.91	
For Class 56, Add	54.05	
33 14 13 13-1093 LF 14", Class 50, Push-On Joint Ductile Iron Pipe.....	99.90	21.87
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	29.42	
For Cement Mortar Lining (CML), Add	6.69	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	22.73	
For Fusion Bonded Epoxy Lining (206N), Add	12.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	5.01	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.00	
For Class 51, Add	9.53	
For Class 52, Add	20.56	
For Class 53, Add	37.07	
For Class 54, Add	52.89	
For Class 55, Add	60.80	
For Class 56, Add	68.57	
33 14 13 13-1094 LF 16", Class 50, Push-On Joint Ductile Iron Pipe.....	118.46	24.93
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	33.10	
For Cement Mortar Lining (CML), Add	8.07	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	25.02	
For Fusion Bonded Epoxy Lining (206N), Add	14.53	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	6.05	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-5.92	
For Class 51, Add	11.47	
For Class 52, Add	24.76	
For Class 53, Add	44.67	
For Class 54, Add	63.75	
For Class 55, Add	73.27	
For Class 56, Add	82.62	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1095 LF 18", Class 50, Push-On Joint Ductile Iron Pipe.....	137.84	29.16
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	38.44	
For Cement Mortar Lining (CML), Add	9.38	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	29.06	
For Fusion Bonded Epoxy Lining (206N), Add	16.88	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.03	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-6.89	
For Class 51, Add	13.33	
For Class 52, Add	28.77	
For Class 53, Add	51.89	
For Class 54, Add	74.05	
For Class 55, Add	85.12	
For Class 56, Add	95.98	
33 14 13 13-1096 LF 20", Class 50, Push-On Joint Ductile Iron Pipe.....	158.95	34.92
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	40.30	
For Cement Mortar Lining (CML), Add	10.61	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	29.69	
For Fusion Bonded Epoxy Lining (206N), Add	19.09	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	7.95	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-7.95	
For Class 51, Add	15.12	
For Class 52, Add	32.62	
For Class 53, Add	58.82	
For Class 54, Add	83.92	
For Class 55, Add	96.47	
For Class 56, Add	108.80	
33 14 13 13-1097 LF 24", Class 50, Push-On Joint Ductile Iron Pipe.....	201.12	43.62
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	41.83	
For Cement Mortar Lining (CML), Add	13.49	
Note: ANSI/AWWA C104/A21.4		
For 40 Mil Ceramic Epoxy Lining (P401), Add	28.34	
For Fusion Bonded Epoxy Lining (206N), Add	24.29	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	10.12	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-10.06	
For Class 51, Add	19.22	
For Class 52, Add	41.47	
For Class 53, Add	74.79	
For Class 54, Add	106.72	
For Class 55, Add	122.67	
For Class 56, Add	138.34	
33 14 13 13-1098 LF 30", Class 50, Push-On Joint Ductile Iron Pipe.....	238.48	46.56
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	52.06	
For Cement Mortar Lining (CML), Add	16.79	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	30.23	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.59	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-11.92	
For Class 51, Add	23.77	
For Class 52, Add	51.32	
For Class 53, Add	92.64	
For Class 54, Add	132.23	
For Class 55, Add	151.94	
For Class 56, Add	171.29	
33 14 13 13-1099 LF 36", Class 50, Push-On Joint Ductile Iron Pipe.....	296.09	49.50
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	68.53	
For Cement Mortar Lining (CML), Add	22.11	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	39.79	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	16.58	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-14.80	
For Class 51, Add	31.07	
For Class 52, Add	67.12	
For Class 53, Add	121.29	
For Class 54, Add	173.19	
For Class 55, Add	198.91	
For Class 56, Add	224.16	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1100 LF 42", Class 50, Push-On Joint Ductile Iron Pipe.....	361.26	52.44
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	87.39	
For Cement Mortar Lining (CML), Add	28.19	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	50.74	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	21.14	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-18.06	
For Class 51, Add	39.41	
For Class 52, Add	85.17	
For Class 53, Add	154.05	
For Class 54, Add	220.02	
For Class 55, Add	252.61	
For Class 56, Add	284.61	
33 14 13 13-1101 LF 48", Class 50, Push-On Joint Ductile Iron Pipe.....	435.27	55.26
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	108.95	
For Cement Mortar Lining (CML), Add	35.14	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	63.26	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	26.36	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-21.76	
For Class 51, Add	48.95	
For Class 52, Add	105.81	
For Class 53, Add	191.48	
For Class 54, Add	273.54	
For Class 55, Add	313.98	
For Class 56, Add	353.69	
33 14 13 13-1102 LF 54", Class 50, Push-On Joint Ductile Iron Pipe.....	552.40	58.20
For 40 Mil Glass Fiber Epoxy Or Polyurethane Lining, Add	143.91	
For Cement Mortar Lining (CML), Add	46.42	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	83.56	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	34.82	
Note: ANSI/AWWA C151/A21.51		
For >1,000, Deduct	-27.62	
For Class 51, Add	64.38	
For Class 52, Add	139.20	
For Class 53, Add	252.08	
For Class 54, Add	360.19	
For Class 55, Add	413.33	
For Class 56, Add	465.49	
<b>33 14 13 13-1103 Push-On Joint Ductile Iron 90 Degree Elbow (33 14 13 13-1086)</b>		
33 14 13 13-1104 EA 4" 90 Degree Elbow, Push-On Joint Ductile Iron .....	173.78	39.44
For Cement Mortar Lining (CML), Add	11.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	20.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	8.55	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1105 EA 6" 90 Degree Elbow, Push-On Joint Ductile Iron .....	252.54	58.19
For Cement Mortar Lining (CML), Add	16.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	29.58	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	12.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1106 EA 8" 90 Degree Elbow, Push-On Joint Ductile Iron .....	332.69	69.08
For Cement Mortar Lining (CML), Add	22.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.10	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1107 EA 10" 90 Degree Elbow, Push-On Joint Ductile Iron .....	504.62	77.37
For Cement Mortar Lining (CML), Add	34.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	62.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1108 EA 12" 90 Degree Elbow, Push-On Joint Ductile Iron .....	643.51	90.76
For Cement Mortar Lining (CML), Add	45.59	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	82.07	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	34.19	
Note: ANSI/AWWA C151/A21.51		





	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>33</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1109 EA 14" 90 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,210.41 99.99 179.98 74.99	101.82
33 14 13 13-1110 EA 16" 90 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,369.34 112.89 203.19 84.66	116.40
33 14 13 13-1111 EA 18" 90 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,118.10 178.14 320.66 133.61	162.96
33 14 13 13-1112 EA 20" 90 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,395.07 198.43 357.18 148.82	205.40
33 14 13 13-1113 EA 24" 90 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	2,990.83 247.74 445.93 185.80	256.77
<b>33 14 13 13-1114 Push-On Joint Ductile Iron 45 Degree Elbow (33 14 13 13-1086)</b>		
33 14 13 13-1115 EA 4" 45 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	147.86 8.81 15.85 6.61	39.44
33 14 13 13-1116 EA 6" 45 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	217.68 12.95 23.31 9.71	58.19
33 14 13 13-1117 EA 8" 45 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	295.19 19.05 34.28 14.28	69.08
33 14 13 13-1118 EA 10" 45 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	452.84 29.28 52.71 21.96	77.37
33 14 13 13-1119 EA 12" 45 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	577.54 39.00 70.19 29.25	90.76
33 14 13 13-1120 EA 14" 45 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	798.43 58.79 105.83 44.09	101.82
33 14 13 13-1121 EA 16" 45 Degree Elbow, Push-On Joint Ductile Iron ..... For Cement Mortar Lining (CML), Add Note: ANSI/AWWA C104/A21.4 For Fusion Bonded Epoxy Lining (206N), Add Note: ANSI/AWWA C104/A21.4 For Bituminous Or Coal Tar Coating, 1 Mil, Add Note: ANSI/AWWA C151/A21.51	1,153.61 91.31 164.36 68.48	116.40

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1122 EA 18" 45 Degree Elbow, Push-On Joint Ductile Iron .....	1,350.65	162.96
For Cement Mortar Lining (CML), Add	101.40	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	182.52	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	76.05	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1123 EA 20" 45 Degree Elbow, Push-On Joint Ductile Iron .....	1,869.64	205.40
For Cement Mortar Lining (CML), Add	145.89	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	262.60	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	109.42	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1124 EA 24" 45 Degree Elbow, Push-On Joint Ductile Iron .....	2,321.61	256.77
For Cement Mortar Lining (CML), Add	180.82	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	325.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	135.61	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-1125 Push-On Joint Ductile Iron Tee</b> (33 14 13 13-1086)		
33 14 13 13-1126 EA 4" Tee, Push-On Joint Ductile Iron.....	264.48	58.19
For Cement Mortar Lining (CML), Add	17.63	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	31.73	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	13.22	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1127 EA 6" Tee, Push-On Joint Ductile Iron.....	370.81	85.50
For Cement Mortar Lining (CML), Add	24.12	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	43.42	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	18.09	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1128 EA 8" Tee, Push-On Joint Ductile Iron.....	499.11	103.63
For Cement Mortar Lining (CML), Add	34.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	61.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	25.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1129 EA 10" Tee, Push-On Joint Ductile Iron.....	714.45	117.57
For Cement Mortar Lining (CML), Add	53.81	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	96.86	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	40.36	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1130 EA 12" Tee, Push-On Joint Ductile Iron.....	884.32	135.56
For Cement Mortar Lining (CML), Add	67.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	122.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	50.89	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1131 EA 14" Tee, Push-On Joint Ductile Iron.....	1,391.53	162.96
For Cement Mortar Lining (CML), Add	114.46	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	206.03	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	85.85	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1132 EA 16" Tee, Push-On Joint Ductile Iron.....	1,992.69	203.75
For Cement Mortar Lining (CML), Add	168.41	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	303.13	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	126.30	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1133 EA 18" Tee, Push-On Joint Ductile Iron.....	2,513.86	271.83
For Cement Mortar Lining (CML), Add	210.20	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	378.36	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	157.65	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1134 EA 20" Tee, Push-On Joint Ductile Iron.....	2,969.01	331.67
For Cement Mortar Lining (CML), Add	246.65	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	443.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	184.99	
Note: ANSI/AWWA C151/A21.51		



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1135 EA 24" Tee, Push-On Joint Ductile Iron.....	3,877.05	414.56
For Cement Mortar Lining (CML), Add	324.90	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	584.82	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	243.67	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-1136 Flanged End x Push-On Joint Ductile Iron Adapters (33 14 13 13-1086)</b>		
33 14 13 13-1137 EA 4" Flanged End x Push-On Joint Adapter, Ductile Iron .....	435.87	136.82
For Cement Mortar Lining (CML), Add	22.86	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	41.14	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	17.14	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1138 EA 6" Flanged End x Push-On Joint Adapter, Ductile Iron .....	533.72	169.41
For Cement Mortar Lining (CML), Add	27.71	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	49.87	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	20.78	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1139 EA 8" Flanged End x Push-On Joint Adapter, Ductile Iron .....	697.71	197.58
For Cement Mortar Lining (CML), Add	39.83	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	71.69	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	29.87	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1140 EA 10" Flanged End x Push-On Joint Adapter, Ductile Iron .....	960.38	290.99
For Cement Mortar Lining (CML), Add	51.95	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	93.51	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	38.96	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1141 EA 12" Flanged End x Push-On Joint Adapter, Ductile Iron .....	1,161.90	332.61
For Cement Mortar Lining (CML), Add	65.80	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	118.44	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	49.35	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1142 EA 14" Flanged End x Push-On Joint Adapter, Ductile Iron .....	1,339.18	358.12
For Cement Mortar Lining (CML), Add	79.66	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	143.38	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	59.74	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1143 EA 16" Flanged End x Push-On Joint Adapter, Ductile Iron .....	1,592.20	387.99
For Cement Mortar Lining (CML), Add	100.44	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	180.78	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	75.33	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1144 EA 18" Flanged End x Push-On Joint Adapter, Ductile Iron .....	1,882.93	465.58
For Cement Mortar Lining (CML), Add	117.75	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	211.95	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	88.31	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1145 EA 20" Flanged End x Push-On Joint Adapter, Ductile Iron .....	2,186.44	517.32
For Cement Mortar Lining (CML), Add	140.26	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	252.47	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	105.20	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1146 EA 24" Flanged End x Push-On Joint Adapter, Ductile Iron .....	2,739.94	596.91
For Cement Mortar Lining (CML), Add	183.55	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	330.40	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	137.67	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1147 EA 30" Flanged End x Push-On Joint Adapter, Ductile Iron .....	4,379.54	716.25
For Cement Mortar Lining (CML), Add	329.43	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	592.97	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	247.07	
Note: ANSI/AWWA C151/A21.51		

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1148 EA 36" Flanged End x Push-On Joint Adapter, Ductile Iron .....	6,056.95	895.31
For Cement Mortar Lining (CML), Add	470.04	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	846.06	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	352.53	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1149 EA 42" Flanged End x Push-On Joint Adapter, Ductile Iron .....	7,653.99	1,034.62
For Cement Mortar Lining (CML), Add	608.64	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,095.55	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	456.48	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1150 EA 48" Flanged End x Push-On Joint Adapter, Ductile Iron .....	9,769.09	1,330.20
For Cement Mortar Lining (CML), Add	775.36	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,395.65	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	581.52	
Note: ANSI/AWWA C151/A21.51		
33 14 13 13-1151 EA 54" Flanged End x Push-On Joint Adapter, Ductile Iron .....	11,867.77	1,552.30
For Cement Mortar Lining (CML), Add	951.57	
Note: ANSI/AWWA C104/A21.4		
For Fusion Bonded Epoxy Lining (206N), Add	1,712.83	
Note: ANSI/AWWA C104/A21.4		
For Bituminous Or Coal Tar Coating, 1 Mil, Add	713.68	
Note: ANSI/AWWA C151/A21.51		
<b>33 14 13 13-1152 Push-On Joint Ductile Iron Pipe And Fitting Restraints (33 14 13 13-1086)</b>		
Note: Includes ductile iron follower gland, restraint ring and all nuts and bolts. Excludes pipe and fitting.		
33 14 13 13-1153 EA 4" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	39.71	21.31
33 14 13 13-1154 EA 6" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	53.28	27.80
33 14 13 13-1155 EA 8" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	70.39	28.77
33 14 13 13-1156 EA 10" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	80.89	30.55
33 14 13 13-1157 EA 12" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	94.58	33.95
33 14 13 13-1158 EA 14" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	116.25	38.19
33 14 13 13-1159 EA 16" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	136.19	43.64
33 14 13 13-1160 EA 18" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	152.20	47.29
33 14 13 13-1161 EA 20" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	178.56	56.74
33 14 13 13-1162 EA 24" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	208.32	58.93
33 14 13 13-1163 EA 30" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	260.43	65.47
33 14 13 13-1164 EA 36" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	330.13	70.92
33 14 13 13-1165 EA 42" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	400.98	77.60
33 14 13 13-1166 EA 48" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	470.28	87.29
33 14 13 13-1167 EA 54" Pipe And Fitting Restraint, Push-On Joint Ductile Iron .....	632.55	94.67
<b>33 14 13 13-1168 Push-On Joint Ductile Iron Bell Restraint Harness (MEGALUG® 1700 Series) (33 14 13 13-1086)</b>		
33 14 13 13-1169 EA 4" Bell Restraint Harness, Ductile Iron (MEGALUG® 170400) .....	247.08	79.36
33 14 13 13-1170 EA 6" Bell Restraint Harness, Ductile Iron (MEGALUG® 170600) .....	325.24	96.88
33 14 13 13-1171 EA 8" Bell Restraint Harness, Ductile Iron (MEGALUG® 170800) .....	418.18	118.16
33 14 13 13-1172 EA 10" Bell Restraint Harness, Ductile Iron (MEGALUG® 171000) .....	627.24	144.14
33 14 13 13-1173 EA 12" Bell Restraint Harness, Ductile Iron (MEGALUG® 171200) .....	777.74	175.77
33 14 13 13-1174 EA 14" Bell Restraint Harness, Ductile Iron (MEGALUG® 171400) .....	1,333.01	214.45
33 14 13 13-1175 EA 16" Bell Restraint Harness, Ductile Iron (MEGALUG® 171600) .....	1,523.31	261.72
33 14 13 13-1176 EA 18" Bell Restraint Harness, Ductile Iron (MEGALUG® 171800) .....	1,731.25	319.21
33 14 13 13-1177 EA 20" Bell Restraint Harness, Ductile Iron (MEGALUG® 172000) .....	2,349.43	389.51
33 14 13 13-1178 EA 24" Bell Restraint Harness, Ductile Iron (MEGALUG® 172400) .....	2,994.71	475.10
33 14 13 13-1179 EA 30" Bell Restraint Harness, Ductile Iron (MEGALUG® 173000) .....	5,147.66	579.74
33 14 13 13-1180 EA 36" Bell Restraint Harness, Ductile Iron (MEGALUG® 173600) .....	7,293.70	707.19
33 14 13 13-1181 EA 42" Bell Restraint Harness, Ductile Iron (MEGALUG® 174200) .....	13,212.05	862.86
33 14 13 13-1182 EA 48" Bell Restraint Harness, Ductile Iron (MEGALUG® 174800) .....	17,086.72	1,052.62
<b>33 14 13 13-1183 Ductile Iron Pipe Repair (33 14 13 13-0001)</b>		
See CSI section 33 14 13 13-0002 for mechanical joint fittings.		
<b>33 14 13 13-1184 Ductile Iron Pipe Repair (33 14 13 13-1183)</b>		
Note: Includes two transition sleeves, mechanical joint ductile iron sleeve and 16' of ductile iron pipe.		
33 14 13 13-1185 EA 30" Diameter Mechanical Ductile Iron Push Joint .....	2,806.86	
33 14 13 13-1186 EA 36" Diameter Mechanical Ductile Iron Push Joint .....	3,526.65	
33 14 13 13-1187 EA 42" Diameter Mechanical Ductile Iron Push Joint .....	4,374.73	
33 14 13 13-1188 EA 48" Diameter Mechanical Ductile Iron Push Joint .....	5,467.04	
33 14 13 13-1189 EA 54" Diameter Mechanical Ductile Iron Push Joint .....	7,818.87	
<b>33 14 13 13-1190 WEKO Seals (33 14 13 13-1183)</b>		
Note: Internal joint seal.		
33 14 13 13-1191 EA 16" WEKO Internal Joint Seal .....	1,471.19	243.34
For Extra Wide Seals, Add	88.44	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 13-1192 EA 18" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,565.93 89.47	256.95
33 14 13 13-1193 EA 20" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,660.47 90.50	270.56
33 14 13 13-1194 EA 24" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,762.73 92.14	292.21
33 14 13 13-1195 EA 30" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,827.45 93.78	313.85
33 14 13 13-1196 EA 36" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	1,924.76 95.83	340.91
33 14 13 13-1197 EA 42" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,058.44 98.29	373.38
33 14 13 13-1198 EA 48" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,221.48 100.34	400.43
33 14 13 13-1199 EA 54" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,308.74 101.98	422.08
33 14 13 13-1200 EA 60" WEKO Internal Joint Seal..... <i>For Extra Wide Seals, Add</i>	2,416.15 104.44	454.55
<b>33 14 13 23 Plastic Public Water Utility Distribution Piping (33 14 13)</b>		
33 14 13 23-0001 AWWA C900/C905 Polyvinyl Chloride (PVC) Pipe (33 14 13 23) Note: Includes hub on one end of pipe. C900 is available in blue, white, purple or green.		
33 14 13 23-0002 AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0003 LF 4" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	10.32	3.68
33 14 13 23-0004 LF 6" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	14.98	4.46
33 14 13 23-0005 LF 8" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	20.48	5.02
33 14 13 23-0006 LF 10" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	26.90	5.57
33 14 13 23-0007 LF 12" AWWA C900, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe.....	34.79	6.25
33 14 13 23-0008 AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0009 LF 4" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	11.39	3.68
33 14 13 23-0010 LF 6" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	17.19	4.46
33 14 13 23-0011 LF 8" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	24.20	5.02
33 14 13 23-0012 LF 10" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	32.69	5.57
33 14 13 23-0013 LF 12" AWWA C900, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe.....	42.87	6.25
33 14 13 23-0014 AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0015 LF 4" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	12.44	3.68
33 14 13 23-0016 LF 6" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	19.38	4.46
33 14 13 23-0017 LF 8" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	27.92	5.02
33 14 13 23-0018 LF 10" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	38.35	5.57
33 14 13 23-0019 LF 12" AWWA C900, DR 14, PC 305 Polyvinyl Chloride (PVC) Pipe.....	50.95	6.25
33 14 13 23-0020 AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0021 LF 18" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	54.61	9.36
33 14 13 23-0022 LF 20" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	66.58	11.14
33 14 13 23-0023 LF 24" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	89.29	13.37
33 14 13 23-0024 LF 30" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	128.96	15.60
33 14 13 23-0025 LF 36" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	177.95	17.83
33 14 13 23-0026 LF 42" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	225.43	18.95
33 14 13 23-0027 LF 48" AWWA C905, DR 51, PC 80 Polyvinyl Chloride (PVC) Pipe.....	285.47	20.39
33 14 13 23-0028 AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0029 LF 14" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	40.31	7.02
33 14 13 23-0030 LF 16" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	50.56	7.80
33 14 13 23-0031 LF 18" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	62.70	9.36
33 14 13 23-0032 LF 20" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	77.08	11.14
33 14 13 23-0033 LF 24" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	105.49	13.37
33 14 13 23-0034 LF 30" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	152.19	15.60
33 14 13 23-0035 LF 36" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	209.07	17.83
33 14 13 23-0036 LF 42" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	277.18	18.95
33 14 13 23-0037 LF 48" AWWA C905, DR 41, PC 100 Polyvinyl Chloride (PVC) Pipe.....	352.62	20.39
33 14 13 23-0038 AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe (33 14 13 23-0001)		
33 14 13 23-0039 LF 14" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....	46.54	7.02
33 14 13 23-0040 LF 16" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....	59.20	7.80
33 14 13 23-0041 LF 18" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....	73.43	9.36
33 14 13 23-0042 LF 20" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....	91.01	11.14
33 14 13 23-0043 LF 24" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....	125.49	13.37
33 14 13 23-0044 LF 30" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....	182.23	15.60
33 14 13 23-0045 LF 36" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....	252.92	17.83
33 14 13 23-0046 LF 42" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....	329.13	18.95
33 14 13 23-0047 LF 48" AWWA C905, DR 32.5, PC 125 Polyvinyl Chloride (PVC) Pipe.....	420.41	20.39

<b>33</b>	<b>Utilities</b>
<b>33 10</b>	<b>Water Utilities</b>
<b>33 14</b>	<b>Water Utility Transmission and Distribution</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0048			<b>AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe</b> (33 14 13 23-0001)		
33 14 13 23-0049	LF		14" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	57.18	7.02
33 14 13 23-0050	LF		16" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	71.84	7.80
33 14 13 23-0051	LF		18" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	89.71	9.36
33 14 13 23-0052	LF		20" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	110.66	11.14
33 14 13 23-0053	LF		24" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	153.82	13.37
33 14 13 23-0054	LF		30" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	226.70	15.60
33 14 13 23-0055	LF		36" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	321.29	17.83
33 14 13 23-0056	LF		42" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	429.41	18.95
33 14 13 23-0057	LF		48" AWWA C905, DR 25, PC 165 Polyvinyl Chloride (PVC) Pipe .....	554.97	20.39
33 14 13 23-0058			<b>AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe</b> (33 14 13 23-0001)		
33 14 13 23-0059	LF		14" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	65.18	7.02
33 14 13 23-0060	LF		16" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	82.24	7.80
33 14 13 23-0061	LF		18" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	102.83	9.36
33 14 13 23-0062	LF		20" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	127.00	11.14
33 14 13 23-0063	LF		24" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	177.33	13.37
33 14 13 23-0064	LF		30" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	262.88	15.60
33 14 13 23-0065	LF		36" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	374.13	17.83
33 14 13 23-0066	LF		42" AWWA C905, DR 21, PC 200 Polyvinyl Chloride (PVC) Pipe .....	501.82	18.95
33 14 13 23-0067			<b>AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe</b> (33 14 13 23-0001)		
33 14 13 23-0068	LF		14" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	72.97	7.02
33 14 13 23-0069	LF		16" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	92.36	7.80
33 14 13 23-0070	LF		18" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	115.58	9.36
33 14 13 23-0071	LF		20" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	142.90	11.14
33 14 13 23-0072	LF		24" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	200.20	13.37
33 14 13 23-0073	LF		30" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	298.07	15.60
33 14 13 23-0074	LF		36" AWWA C905, DR 18, PC 235 Polyvinyl Chloride (PVC) Pipe .....	425.54	17.83
33 14 13 23-0075			<b>AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) Fittings</b> (33 14 13 23)		
			Note: Includes rubber gaskets.		
33 14 13 23-0076			<b>90 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0075)		
33 14 13 23-0077	EA		4" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	207.03	14.64
			For DR 25, Deduct .....	-10.67	
33 14 13 23-0078	EA		6" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	420.94	16.47
			For DR 25, Deduct .....	-23.28	
33 14 13 23-0079	EA		8" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	630.90	18.30
			For DR 25, Deduct .....	-35.66	
33 14 13 23-0080	EA		10" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	965.90	30.16
			For DR 25, Deduct .....	-54.33	
33 14 13 23-0081	EA		12" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,260.09	50.27
			For DR 25, Deduct .....	-69.57	
33 14 13 23-0082	EA		14" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,888.82	62.84
			For DR 25, Deduct .....	-105.79	
33 14 13 23-0083	EA		16" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	2,254.19	75.42
			For DR 25, Deduct .....	-126.20	
33 14 13 23-0084	EA		18" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,860.04	100.55
			For DR 25, Deduct .....	-219.54	
33 14 13 23-0085	EA		20" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	4,752.38	125.69
			For DR 25, Deduct .....	-270.06	
33 14 13 23-0086	EA		24" 90 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	7,877.99	169.68
			For DR 25, Deduct .....	-452.32	
33 14 13 23-0087			<b>45 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0075)		
33 14 13 23-0088	EA		4" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	183.82	14.64
			For DR 25, Deduct .....	-9.27	
33 14 13 23-0089	EA		6" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	315.68	16.47
			For DR 25, Deduct .....	-16.97	
33 14 13 23-0090	EA		8" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	399.48	18.30
			For DR 25, Deduct .....	-21.77	
33 14 13 23-0091	EA		10" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	567.93	30.16
			For DR 25, Deduct .....	-30.46	
33 14 13 23-0092	EA		12" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	762.10	50.27
			For DR 25, Deduct .....	-39.69	
33 14 13 23-0093	EA		14" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,455.63	62.84
			For DR 25, Deduct .....	-79.80	
33 14 13 23-0094	EA		16" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	1,843.80	75.42
			For DR 25, Deduct .....	-101.58	
33 14 13 23-0095	EA		18" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,173.90	100.55
			For DR 25, Deduct .....	-178.37	
33 14 13 23-0096	EA		20" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) .....	3,942.36	125.69
			For DR 25, Deduct .....	-221.46	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0097 EA 24" 45 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,561.30 -313.32	169.68
<b>33 14 13 23-0098 22-1/2 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>		
33 14 13 23-0099 EA 4" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	181.00 -9.10	14.64
33 14 13 23-0100 EA 6" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	315.68 -16.97	16.47
33 14 13 23-0101 EA 8" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	399.48 -21.77	18.30
33 14 13 23-0102 EA 10" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	567.94 -30.46	30.16
33 14 13 23-0103 EA 12" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	762.10 -39.69	50.27
33 14 13 23-0104 EA 14" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,450.59 -79.80	60.33
33 14 13 23-0105 EA 16" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,843.78 -101.58	75.42
33 14 13 23-0106 EA 18" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,173.90 -178.37	100.55
33 14 13 23-0107 EA 20" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,942.36 -221.46	125.69
33 14 13 23-0108 EA 24" 22-1/2 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,561.30 -313.32	169.68
<b>33 14 13 23-0109 11-1/4 Degree Elbows, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>		
33 14 13 23-0110 EA 4" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	160.22 -7.86	14.64
33 14 13 23-0111 EA 6" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	315.68 -16.97	16.47
33 14 13 23-0112 EA 8" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	399.48 -21.77	18.30
33 14 13 23-0113 EA 10" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	567.94 -30.46	30.16
33 14 13 23-0114 EA 12" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	762.10 -39.69	50.27
33 14 13 23-0115 EA 14" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,450.59 -79.80	60.33
33 14 13 23-0116 EA 16" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,843.78 -101.58	75.42
33 14 13 23-0117 EA 18" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,173.90 -178.37	100.55
33 14 13 23-0118 EA 20" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,942.36 -221.46	125.69
33 14 13 23-0119 EA 24" 11-1/4 Degree Elbow, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,561.30 -313.32	169.68
<b>33 14 13 23-0120 Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>		
33 14 13 23-0121 EA 4" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	245.84 -12.77	16.47
33 14 13 23-0122 EA 6" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	471.87 -26.12	18.30
33 14 13 23-0123 EA 8" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	657.41 -36.96	20.74
33 14 13 23-0124 EA 10" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,356.85 -76.88	37.70
33 14 13 23-0125 EA 12" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,664.41 -90.82	75.42
33 14 13 23-0126 EA 14" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	2,994.09 -168.34	94.27
33 14 13 23-0127 EA 16" Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,707.48 -208.87	113.12
33 14 13 23-0128 EA 18" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,680.23 -262.71	150.83
33 14 13 23-0129 EA 20" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,622.48 -314.72	188.53
33 14 13 23-0130 EA 24" Tee, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	7,676.90 -445.23	128.20
<b>33 14 13 23-0131 Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>		
33 14 13 23-0132 EA 6" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	471.06 -25.41	23.79
33 14 13 23-0133 EA 8" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	639.27 -35.28	25.62

## 33 Utilities

## 33 10 Water Utilities

## 33 14 Water Utility Transmission and Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14	13 23-0134	EA	8" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	655.34	26.53
			<i>For DR 25, Deduct</i>	-36.14	
33 14	13 23-0135	EA	10" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	853.58	37.70
			<i>For DR 25, Deduct</i>	-46.69	
33 14	13 23-0136	EA	10" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,152.51	38.65
			<i>For DR 25, Deduct</i>	-64.51	
33 14	13 23-0137	EA	10" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,232.42	39.59
			<i>For DR 25, Deduct</i>	-69.19	
33 14	13 23-0138	EA	12" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,311.07	57.82
			<i>For DR 25, Deduct</i>	-71.73	
33 14	13 23-0139	EA	12" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,502.84	58.76
			<i>For DR 25, Deduct</i>	-83.12	
33 14	13 23-0140	EA	12" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,593.60	59.70
			<i>For DR 25, Deduct</i>	-88.45	
33 14	13 23-0141	EA	12" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	1,624.91	65.36
			<i>For DR 25, Deduct</i>	-89.65	
33 14	13 23-0142	EA	14" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,458.84	67.88
			<i>For DR 25, Deduct</i>	-139.39	
33 14	13 23-0143	EA	14" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,557.23	68.81
			<i>For DR 25, Deduct</i>	-145.18	
33 14	13 23-0144	EA	14" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,655.88	69.76
			<i>For DR 25, Deduct</i>	-150.98	
33 14	13 23-0145	EA	14" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,763.38	75.42
			<i>For DR 25, Deduct</i>	-156.75	
33 14	13 23-0146	EA	14" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	2,880.05	85.47
			<i>For DR 25, Deduct</i>	-162.55	
33 14	13 23-0147	EA	16" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,068.05	82.95
			<i>For DR 25, Deduct</i>	-174.13	
33 14	13 23-0148	EA	16" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,164.53	82.95
			<i>For DR 25, Deduct</i>	-179.92	
33 14	13 23-0149	EA	16" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,262.94	83.90
			<i>For DR 25, Deduct</i>	-185.71	
33 14	13 23-0150	EA	16" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,361.35	84.84
			<i>For DR 25, Deduct</i>	-191.50	
33 14	13 23-0151	EA	16" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,489.25	100.55
			<i>For DR 25, Deduct</i>	-197.29	
33 14	13 23-0152	EA	16" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,595.81	105.58
			<i>For DR 25, Deduct</i>	-203.08	
33 14	13 23-0153	EA	18" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,793.18	108.10
			<i>For DR 25, Deduct</i>	-214.62	
33 14	13 23-0154	EA	18" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,892.26	109.03
			<i>For DR 25, Deduct</i>	-220.45	
33 14	13 23-0155	EA	18" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	3,990.66	109.98
			<i>For DR 25, Deduct</i>	-226.24	
33 14	13 23-0156	EA	18" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,098.48	115.63
			<i>For DR 25, Deduct</i>	-232.03	
33 14	13 23-0157	EA	18" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,215.05	125.69
			<i>For DR 25, Deduct</i>	-237.82	
33 14	13 23-0158	EA	18" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,320.95	130.72
			<i>For DR 25, Deduct</i>	-243.57	
33 14	13 23-0159	EA	18" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,455.88	138.26
			<i>For DR 25, Deduct</i>	-250.76	
33 14	13 23-0160	EA	20" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,809.84	133.23
			<i>For DR 25, Deduct</i>	-272.60	
33 14	13 23-0161	EA	20" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	4,976.52	134.17
			<i>For DR 25, Deduct</i>	-282.49	
33 14	13 23-0162	EA	20" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,042.29	135.12
			<i>For DR 25, Deduct</i>	-286.32	
33 14	13 23-0163	EA	20" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,117.57	140.78
			<i>For DR 25, Deduct</i>	-290.16	
33 14	13 23-0164	EA	20" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,201.59	150.83
			<i>For DR 25, Deduct</i>	-294.00	
33 14	13 23-0165	EA	20" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,315.26	155.85
			<i>For DR 25, Deduct</i>	-300.21	
33 14	13 23-0166	EA	20" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,433.97	163.39
			<i>For DR 25, Deduct</i>	-306.43	
33 14	13 23-0167	EA	20" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,528.22	175.96
			<i>For DR 25, Deduct</i>	-310.58	
33 14	13 23-0168	EA	24" x 4" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,668.95	177.22
			<i>For DR 25, Deduct</i>	-318.87	
33 14	13 23-0169	EA	24" x 6" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,739.99	178.17
			<i>For DR 25, Deduct</i>	-323.02	
33 14	13 23-0170	EA	24" x 8" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	5,811.00	179.11
			<i>For DR 25, Deduct</i>	-327.17	
33 14	13 23-0171	EA	24" x 10" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,103.40	184.76
			<i>For DR 25, Deduct</i>	-344.03	
33 14	13 23-0172	EA	24" x 12" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,404.60	194.82
			<i>For DR 25, Deduct</i>	-360.90	
33 14	13 23-0173	EA	24" x 14" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,695.75	199.85
			<i>For DR 25, Deduct</i>	-377.76	
33 14	13 23-0174	EA	24" x 16" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	6,991.95	207.38
			<i>For DR 25, Deduct</i>	-394.63	
33 14	13 23-0175	EA	24" x 18" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)	7,298.19	219.96
			<i>For DR 25, Deduct</i>	-411.50	





<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0176	EA	24" x 20" Reducing Tees Or Wyes, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	7,604.42 -428.36	232.53
<b>33 14 13 23-0177</b>		<b>Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>		
33 14 13 23-0178	EA	4" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	342.45 -17.03	29.28
33 14 13 23-0179	EA	6" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	610.72 -32.69	32.93
33 14 13 23-0180	EA	8" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	843.50 -46.22	36.59
33 14 13 23-0181	EA	10" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,721.76 -96.07	60.33
33 14 13 23-0182	EA	12" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	2,043.20 -113.54	75.42
33 14 13 23-0183	EA	14" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,708.25 -210.43	100.55
33 14 13 23-0184	EA	16" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,602.17 -261.06	125.69
33 14 13 23-0185	EA	18" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,876.26 -328.44	201.10
33 14 13 23-0186	EA	20" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	7,059.63 -393.41	251.38
33 14 13 23-0187	EA	24" Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	9,953.79 -556.50	339.36
<b>33 14 13 23-0188</b>		<b>Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>		
33 14 13 23-0189	EA	6" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	592.01 -31.79	31.10
33 14 13 23-0190	EA	8" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	801.84 -44.16	32.93
33 14 13 23-0191	EA	8" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	822.55 -45.18	34.76
33 14 13 23-0192	EA	10" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,234.99 -68.67	45.25
33 14 13 23-0193	EA	10" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,438.46 -80.65	47.13
33 14 13 23-0194	EA	10" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,579.42 -88.88	49.02
33 14 13 23-0195	EA	12" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,625.52 -89.69	65.36
33 14 13 23-0196	EA	12" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,866.07 -103.89	67.24
33 14 13 23-0197	EA	12" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	1,980.95 -110.56	69.12
33 14 13 23-0198	EA	12" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	2,028.48 -112.06	80.44
33 14 13 23-0199	EA	14" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,054.69 -174.23	75.42
33 14 13 23-0200	EA	14" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,178.72 -181.45	77.30
33 14 13 23-0201	EA	14" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,304.11 -188.74	79.18
33 14 13 23-0202	EA	14" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,447.82 -196.01	90.49
33 14 13 23-0203	EA	14" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,608.22 -203.22	110.61
33 14 13 23-0204	EA	16" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,808.09 -217.63	90.49
33 14 13 23-0205	EA	16" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	3,933.76 -224.94	92.38
33 14 13 23-0206	EA	16" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,058.09 -232.17	94.27
33 14 13 23-0207	EA	16" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,201.71 -239.43	105.58
33 14 13 23-0208	EA	16" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,276.20 -241.49	125.69
33 14 13 23-0209	EA	16" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,502.67 -253.87	135.74
33 14 13 23-0210	EA	18" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,703.13 -268.31	115.63
33 14 13 23-0211	EA	18" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,828.50 -275.61	117.52
33 14 13 23-0212	EA	18" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	4,953.03 -282.85	119.41
33 14 13 23-0213	EA	18" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,094.83 -290.00	130.72
33 14 13 23-0214	EA	18" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,256.66 -297.30	150.83
33 14 13 23-0215	EA	18" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC) <i>For DR 25, Deduct</i>	5,396.97 -304.51	160.89

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0216 EA 18" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,576.70	175.96
For DR 25, Deduct	-313.49	
33 14 13 23-0217 EA 20" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	5,961.34	140.78
For DR 25, Deduct	-340.79	
33 14 13 23-0218 EA 20" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,170.76	142.66
For DR 25, Deduct	-353.13	
33 14 13 23-0219 EA 20" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,254.99	144.54
For DR 25, Deduct	-357.95	
33 14 13 23-0220 EA 20" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,357.20	155.85
For DR 25, Deduct	-362.73	
33 14 13 23-0221 EA 20" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,477.03	175.96
For DR 25, Deduct	-367.51	
33 14 13 23-0222 EA 20" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,625.76	186.02
For DR 25, Deduct	-375.22	
33 14 13 23-0223 EA 20" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,787.13	201.10
For DR 25, Deduct	-383.10	
33 14 13 23-0224 EA 20" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,923.55	226.25
For DR 25, Deduct	-388.26	
33 14 13 23-0225 EA 24" x 4" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	6,974.31	184.76
For DR 25, Deduct	-396.29	
33 14 13 23-0226 EA 24" x 6" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,103.28	186.65
For DR 25, Deduct	-403.80	
33 14 13 23-0227 EA 24" x 8" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,193.82	188.53
For DR 25, Deduct	-409.01	
33 14 13 23-0228 EA 24" x 10" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,567.41	199.85
For DR 25, Deduct	-430.06	
33 14 13 23-0229 EA 24" x 12" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	7,958.72	219.96
For DR 25, Deduct	-451.13	
33 14 13 23-0230 EA 24" x 14" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,329.86	230.01
For DR 25, Deduct	-472.19	
33 14 13 23-0231 EA 24" x 16" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	8,712.56	245.10
For DR 25, Deduct	-493.34	
33 14 13 23-0232 EA 24" x 18" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	9,113.11	270.23
For DR 25, Deduct	-514.36	
33 14 13 23-0233 EA 24" x 20" Reducing Cross, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	9,515.16	295.37
For DR 25, Deduct	-535.47	
<b>33 14 13 23-0234 Couplings, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>		
33 14 13 23-0235 EA 4" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	125.01	14.64
For DR 25, Deduct	-5.74	
33 14 13 23-0236 EA 6" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	230.53	16.47
For DR 25, Deduct	-11.86	
33 14 13 23-0237 EA 8" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	277.14	18.30
For DR 25, Deduct	-14.43	
33 14 13 23-0238 EA 10" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	396.81	30.16
For DR 25, Deduct	-20.19	
33 14 13 23-0239 EA 12" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	628.29	37.70
For DR 25, Deduct	-33.17	
33 14 13 23-0240 EA 14" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,085.74	50.27
For DR 25, Deduct	-59.11	
33 14 13 23-0241 EA 16" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,287.11	62.84
For DR 25, Deduct	-69.68	
33 14 13 23-0242 EA 18" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,067.13	100.55
For DR 25, Deduct	-171.96	
33 14 13 23-0243 EA 20" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,442.16	125.69
For DR 25, Deduct	-191.45	
33 14 13 23-0244 EA 24" Coupling, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,844.55	169.68
For DR 25, Deduct	-270.31	
<b>33 14 13 23-0245 Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0075)</small>		
33 14 13 23-0246 EA 4" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	154.16	14.64
For DR 25, Deduct	-7.49	
33 14 13 23-0247 EA 6" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	208.65	16.47
For DR 25, Deduct	-10.54	
33 14 13 23-0248 EA 8" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	302.04	18.30
For DR 25, Deduct	-15.93	
33 14 13 23-0249 EA 10" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	416.23	30.16
For DR 25, Deduct	-21.35	
33 14 13 23-0250 EA 12" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	667.58	50.27
For DR 25, Deduct	-34.02	
33 14 13 23-0251 EA 14" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	1,751.21	60.33
For DR 25, Deduct	-97.83	
33 14 13 23-0252 EA 16" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,368.76	75.42
For DR 25, Deduct	-133.08	
33 14 13 23-0253 EA 18" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	2,920.81	100.55
For DR 25, Deduct	-163.18	
33 14 13 23-0254 EA 20" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	3,491.16	125.69
For DR 25, Deduct	-194.39	
33 14 13 23-0255 EA 24" Flanged End x Gasket Joint Adapter, AWWA C900/905, DR 18, PC 235 Polyvinyl Chloride (PVC).....	4,742.32	169.68
For DR 25, Deduct	-264.18	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0256	<b>Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Piping</b> <small>(33 14 13 23)</small>			
33 14 13 23-0257	<b>Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe</b> <small>(33 14 13 23-0256)</small>			
33 14 13 23-0258	LF 3/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	3.06	0.98
	<i>For &gt;1,000, Deduct</i>		-0.15	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		0.09	
33 14 13 23-0259	LF 1" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	3.45	1.05
	<i>For &gt;1,000, Deduct</i>		-0.17	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		0.12	
33 14 13 23-0260	LF 1-1/4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	4.18	1.14
	<i>For &gt;1,000, Deduct</i>		-0.21	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		0.20	
33 14 13 23-0261	LF 1-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	4.96	1.26
	<i>For &gt;1,000, Deduct</i>		-0.25	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		0.27	
33 14 13 23-0262	LF 2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	6.86	1.42
	<i>For &gt;1,000, Deduct</i>		-0.34	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		0.50	
33 14 13 23-0263	LF 2-1/2" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	9.27	1.61
	<i>For &gt;1,000, Deduct</i>		-0.46	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		0.79	
33 14 13 23-0264	LF 3" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	11.45	1.71
	<i>For &gt;1,000, Deduct</i>		-0.57	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		1.07	
33 14 13 23-0265	LF 4" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	16.99	2.11
	<i>For &gt;1,000, Deduct</i>		-0.85	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		1.76	
33 14 13 23-0266	LF 6" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	32.24	2.68
	<i>For &gt;1,000, Deduct</i>		-1.61	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		3.83	
33 14 13 23-0267	LF 8" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	53.32	4.02
	<i>For &gt;1,000, Deduct</i>		-2.67	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		6.49	
33 14 13 23-0268	LF 10" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	80.72	5.38
	<i>For &gt;1,000, Deduct</i>		-4.04	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		10.09	
33 14 13 23-0269	LF 12" Class 200, SDR 21 Polyvinyl Chloride (PVC) Pressure Pipe	.....	112.89	7.24
	<i>For &gt;1,000, Deduct</i>		-5.64	
	<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>		14.22	
33 14 13 23-0270	<b>90 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0256)</small>			
33 14 13 23-0271	EA 3/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	30.00	11.71
33 14 13 23-0272	EA 1", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	38.14	14.64
33 14 13 23-0273	EA 1-1/4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	48.37	18.30
33 14 13 23-0274	EA 1-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	87.76	20.25
33 14 13 23-0275	EA 2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	93.61	22.69
33 14 13 23-0276	EA 2-1/2", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	112.93	25.74
33 14 13 23-0277	EA 3", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	123.25	27.48
33 14 13 23-0278	EA 4", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	180.96	33.75
33 14 13 23-0279	EA 6", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	273.70	42.87
33 14 13 23-0280	EA 8", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	473.53	56.28
33 14 13 23-0281	EA 10", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	568.39	75.30
33 14 13 23-0282	EA 12", Class 200, SDR 21 Polyvinyl Chloride (PVC) 90 Degree Elbow	.....	747.22	101.36
33 14 13 23-0283	<b>45 Degree Elbows, Class 200, SDR 21 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0256)</small>			
33 14 13 23-0284	EA 3/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	30.99	11.71
33 14 13 23-0285	EA 1" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	38.85	14.64
33 14 13 23-0286	EA 1-1/4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	48.80	18.30
33 14 13 23-0287	EA 1-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	74.69	20.25
33 14 13 23-0288	EA 2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	94.83	22.69
33 14 13 23-0289	EA 2-1/2" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	117.86	25.74
33 14 13 23-0290	EA 3" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	121.17	27.48
33 14 13 23-0291	EA 4" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	176.46	33.75
33 14 13 23-0292	EA 6" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	264.63	42.87
33 14 13 23-0293	EA 8" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	456.24	56.28
33 14 13 23-0294	EA 10" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	496.73	75.30
33 14 13 23-0295	EA 12" 45 Degree Elbow, Class 200, SDR 21 Polyvinyl Chloride (PVC)	.....	648.05	101.36
33 14 13 23-0296	<b>Tees Or Wyes, Class 200, SDR 21 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0256)</small>			
33 14 13 23-0297	EA 3/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	.....	44.91	17.56
33 14 13 23-0298	EA 1" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	.....	56.93	22.08
33 14 13 23-0299	EA 1-1/4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	.....	71.66	27.57
33 14 13 23-0300	EA 1-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	.....	115.56	30.50
33 14 13 23-0301	EA 2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	.....	133.00	33.91
33 14 13 23-0302	EA 2-1/2" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	.....	156.63	38.67
33 14 13 23-0303	EA 3" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	.....	190.42	41.11
33 14 13 23-0304	EA 4" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC)	.....	258.11	50.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0305 EA 6" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	473.18	64.42
33 14 13 23-0306 EA 8" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	736.95	84.43
33 14 13 23-0307 EA 10" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	853.16	129.08
33 14 13 23-0308 EA 12" Tees Or Wyes, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	1,043.22	173.71
<b>33 14 13 23-0309 Couplings, Class 200, SDR 21 Polyvinyl Chloride (PVC)</b> (33 14 13 23-0256)		
33 14 13 23-0310 EA 3/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	20.16	7.81
33 14 13 23-0311 EA 1" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	27.30	10.50
33 14 13 23-0312 EA 1-1/4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	36.97	13.78
33 14 13 23-0313 EA 1-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	59.85	15.25
33 14 13 23-0314 EA 2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	65.60	16.96
33 14 13 23-0315 EA 2-1/2" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	74.60	19.27
33 14 13 23-0316 EA 3" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	84.32	20.55
33 14 13 23-0317 EA 4" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	122.48	25.28
33 14 13 23-0318 EA 6" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	184.42	32.21
33 14 13 23-0319 EA 8" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	342.39	42.21
33 14 13 23-0320 EA 10" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	398.46	64.60
33 14 13 23-0321 EA 12" Coupling, Class 200 SDR 21 Polyvinyl Chloride (PVC).....	498.92	86.85
<b>33 14 13 23-0322 Schedule 40 Polyvinyl Chloride (PVC) Pipe And Fittings</b> (33 14 13 23)		
<b>33 14 13 23-0323 Schedule 40 Polyvinyl Chloride (PVC) Pipe</b> (33 14 13 23-0322)		
33 14 13 23-0324 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pipe .....	3.57	0.98
For >1,000, Deduct	-0.18	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.17	
33 14 13 23-0325 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pipe .....	4.41	1.05
For >1,000, Deduct	-0.22	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.27	
33 14 13 23-0326 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe .....	5.85	1.26
For >1,000, Deduct	-0.29	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.40	
33 14 13 23-0327 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pipe .....	7.19	1.42
For >1,000, Deduct	-0.36	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.55	
33 14 13 23-0328 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pipe .....	9.80	1.61
For >1,000, Deduct	-0.49	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	0.87	
33 14 13 23-0329 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pipe .....	11.79	1.71
For >1,000, Deduct	-0.59	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.13	
33 14 13 23-0330 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pipe .....	16.07	2.11
For >1,000, Deduct	-0.80	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	1.62	
33 14 13 23-0331 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pipe .....	25.57	2.68
For >1,000, Deduct	-1.28	
For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add	2.83	
<b>33 14 13 23-0332 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows</b> (33 14 13 23-0322)		
33 14 13 23-0333 EA 3/4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	30.35	11.71
33 14 13 23-0334 EA 1" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	38.35	14.64
33 14 13 23-0335 EA 1-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	53.61	20.25
33 14 13 23-0336 EA 2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	61.17	22.69
33 14 13 23-0337 EA 2-1/2" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	76.48	25.74
33 14 13 23-0338 EA 3" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	83.38	27.48
33 14 13 23-0339 EA 4" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	114.22	33.75
33 14 13 23-0340 EA 6" 90 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	202.24	42.87
<b>33 14 13 23-0341 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows</b> (33 14 13 23-0322)		
33 14 13 23-0342 EA 3/4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	30.27	11.71
33 14 13 23-0343 EA 1" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	38.27	14.64
33 14 13 23-0344 EA 1-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	53.65	20.25
33 14 13 23-0345 EA 2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	60.83	22.69
33 14 13 23-0346 EA 2-1/2" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	75.55	25.74
33 14 13 23-0347 EA 3" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	82.29	27.48
33 14 13 23-0348 EA 4" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	112.02	33.75
33 14 13 23-0349 EA 6" 45 Degree Elbow, Schedule 40 Polyvinyl Chloride (PVC).....	195.22	42.87
<b>33 14 13 23-0350 Schedule 40 Polyvinyl Chloride (PVC) Tees Or Wyes</b> (33 14 13 23-0322)		
33 14 13 23-0351 EA 3/4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	45.29	17.56
33 14 13 23-0352 EA 1" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	57.21	22.08
33 14 13 23-0353 EA 1-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	79.98	30.50
33 14 13 23-0354 EA 2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	90.55	33.91
33 14 13 23-0355 EA 2-1/2" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	115.26	38.67
33 14 13 23-0356 EA 3" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	129.54	41.11
33 14 13 23-0357 EA 4" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	162.36	50.67
33 14 13 23-0358 EA 6" Tees Or Wyes, Schedule 40 Polyvinyl Chloride (PVC).....	310.11	64.42



<b>Utilities</b>	<b>33</b>
<b>Water Utilities</b>	<b>33 10</b>
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 14 13 23-0359 Schedule 40 Polyvinyl Chloride (PVC) Couplings</b> <small>(33 14 13 23-0322)</small>		
33 14 13 23-0360 EA 3/4" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....	20.33	7.81
33 14 13 23-0361 EA 1" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....	27.45	10.50
33 14 13 23-0362 EA 1-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....	39.77	15.25
33 14 13 23-0363 EA 2" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....	45.24	16.96
33 14 13 23-0364 EA 2-1/2" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....	54.38	19.27
33 14 13 23-0365 EA 3" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....	60.88	20.55
33 14 13 23-0366 EA 4" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....	75.82	25.28
33 14 13 23-0367 EA 6" Coupling, Schedule 40 Polyvinyl Chloride (PVC) .....	123.75	32.21
<b>33 14 13 23-0368 Crosses, Schedule 40 Polyvinyl Chloride (PVC)</b> <small>(33 14 13 23-0322)</small>		
33 14 13 23-0369 EA 3/4" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....	60.73	23.42
33 14 13 23-0370 EA 1" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....	76.19	29.40
33 14 13 23-0371 EA 1-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....	106.62	40.63
33 14 13 23-0372 EA 2" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....	120.70	45.26
33 14 13 23-0373 EA 2-1/2" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....	153.57	51.48
33 14 13 23-0374 EA 3" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....	172.56	54.86
33 14 13 23-0375 EA 4" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....	216.27	67.49
33 14 13 23-0376 EA 6" Cross, Schedule 40 Polyvinyl Chloride (PVC) .....	412.61	85.86
<b>33 14 13 23-0377 Schedule 80 Polyvinyl Chloride (PVC) Pipe And Fittings</b> <small>(33 14 13 23)</small>		
<b>33 14 13 23-0378 Schedule 80 Polyvinyl Chloride (PVC) Pipe</b> <small>(33 14 13 23-0377)</small>		
33 14 13 23-0379 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....	4.96	1.05
<i>For &gt;1,000, Deduct</i>	-0.25	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.35	
33 14 13 23-0380 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....	6.95	1.26
<i>For &gt;1,000, Deduct</i>	-0.35	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.57	
33 14 13 23-0381 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....	9.05	1.42
<i>For &gt;1,000, Deduct</i>	-0.45	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	0.83	
33 14 13 23-0382 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....	12.21	1.61
<i>For &gt;1,000, Deduct</i>	-0.61	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	1.23	
33 14 13 23-0383 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....	15.16	1.71
<i>For &gt;1,000, Deduct</i>	-0.76	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	1.63	
33 14 13 23-0384 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....	21.24	2.11
<i>For &gt;1,000, Deduct</i>	-1.06	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	2.40	
33 14 13 23-0385 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pipe .....	37.06	2.68
<i>For &gt;1,000, Deduct</i>	-1.85	
<i>For Coloring Of Polyvinyl Chloride (PVC) Pipe For Reclaimed Water Identification, Add</i>	4.55	
<b>33 14 13 23-0386 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows</b> <small>(33 14 13 23-0377)</small>		
33 14 13 23-0387 EA 1" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC) .....	41.21	14.64
33 14 13 23-0388 EA 1-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC) .....	53.61	20.25
33 14 13 23-0389 EA 2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC) .....	64.03	22.69
33 14 13 23-0390 EA 2-1/2" 90 Degree Elbow, Schedule 80 Polyvinyl Chloride (PVC) .....	82.56	25.74
33 14 13 23-0391 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	89.02	27.48
33 14 13 23-0392 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	115.58	33.75
33 14 13 23-0393 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbow .....	195.81	42.87
<b>33 14 13 23-0394 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows</b> <small>(33 14 13 23-0377)</small>		
33 14 13 23-0395 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	52.93	14.64
33 14 13 23-0396 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	64.90	20.25
33 14 13 23-0397 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	74.89	22.69
33 14 13 23-0398 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	102.92	25.74
33 14 13 23-0399 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	115.53	27.48
33 14 13 23-0400 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	168.88	33.75
33 14 13 23-0401 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbow .....	192.24	42.87
<b>33 14 13 23-0402 Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes</b> <small>(33 14 13 23-0377)</small>		
33 14 13 23-0403 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....	63.21	22.08
33 14 13 23-0404 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....	98.20	30.50
33 14 13 23-0405 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....	112.27	33.91
33 14 13 23-0406 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....	126.76	38.67
33 14 13 23-0407 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....	140.54	41.11
33 14 13 23-0408 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....	170.29	50.67
33 14 13 23-0409 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees Or Wyes .....	309.83	64.42
<b>33 14 13 23-0410 Schedule 80 Polyvinyl Chloride (PVC) Couplings</b> <small>(33 14 13 23-0377)</small>		

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0411 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....	31.73	10.50
33 14 13 23-0412 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....	47.13	15.25
33 14 13 23-0413 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....	52.17	16.96
33 14 13 23-0414 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....	72.17	19.27
33 14 13 23-0415 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....	78.81	20.55
33 14 13 23-0416 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....	97.61	25.28
33 14 13 23-0417 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Coupling .....	154.19	32.21
<b>33 14 13 23-0418 Crosses, Schedule 80 Polyvinyl Chloride (PVC) (33 14 13 23-0377)</b>		
33 14 13 23-0419 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	84.16	29.40
33 14 13 23-0420 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	130.80	40.63
33 14 13 23-0421 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	149.53	45.26
33 14 13 23-0422 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	168.84	51.48
33 14 13 23-0423 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	187.17	54.86
33 14 13 23-0424 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	226.79	67.49
33 14 13 23-0425 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Cross .....	412.23	85.86
<b>33 14 13 23-0426 AWWA C906, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23)</b>		
Note: ASTM D3350 pipe, ASTM D2657 heat fusion.		
<b>33 14 13 23-0427 High Density Polyethylene (HDPE) Pressure Pipe (33 14 13 23-0426)</b>		
33 14 13 23-0428 LF 3" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	9.48	2.89
For SDR 19, Add	0.33	
For SDR 17, Add	0.81	
For SDR 15.5, Add	1.18	
For SDR 13.5, Add	1.84	
For SDR 11, Add	2.97	
33 14 13 23-0429 LF 4" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	8.83	3.68
For SDR 26, Deduct	-0.27	
For SDR 19, Add	0.13	
For SDR 17, Add	0.33	
For SDR 15.5, Add	0.48	
For SDR 13.5, Add	0.75	
For SDR 11, Add	1.21	
33 14 13 23-0430 LF 6" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	12.12	4.46
For SDR 26, Deduct	-0.59	
For SDR 19, Add	0.29	
For SDR 17, Add	0.71	
For SDR 15.5, Add	1.04	
For SDR 13.5, Add	1.63	
For SDR 11, Add	2.62	
33 14 13 23-0431 LF 8" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	15.46	5.02
For SDR 26, Deduct	-1.00	
For SDR 19, Add	0.49	
For SDR 17, Add	1.21	
For SDR 15.5, Add	1.77	
For SDR 13.5, Add	2.76	
For SDR 11, Add	4.44	
33 14 13 23-0432 LF 10" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	19.59	5.57
For SDR 26, Deduct	-1.55	
For SDR 19, Add	0.76	
For SDR 17, Add	1.88	
For SDR 15.5, Add	2.75	
For SDR 13.5, Add	4.29	
For SDR 11, Add	6.91	
33 14 13 23-0433 LF 12" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	24.55	6.25
For SDR 26, Deduct	-2.23	
For SDR 19, Add	1.10	
For SDR 17, Add	2.71	
For SDR 15.5, Add	3.96	
For SDR 13.5, Add	6.19	
For SDR 11, Add	9.96	
33 14 13 23-0434 LF 14" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	28.25	7.02
For SDR 26, Deduct	-2.62	
For SDR 19, Add	1.29	
For SDR 17, Add	3.18	
For SDR 15.5, Add	4.66	
For SDR 13.5, Add	7.27	
For SDR 11, Add	11.71	
33 14 13 23-0435 LF 16" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	34.31	7.80
For SDR 26, Deduct	-3.43	
For SDR 19, Add	1.68	
For SDR 17, Add	4.16	
For SDR 15.5, Add	6.09	
For SDR 13.5, Add	9.50	
For SDR 11, Add	15.30	
33 14 13 23-0436 LF 18" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	42.42	9.36
For SDR 26, Deduct	-4.33	
For SDR 19, Add	2.13	
For SDR 17, Add	5.25	
For SDR 15.5, Add	7.69	
For SDR 13.5, Add	12.01	
For SDR 11, Add	19.33	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14	13 23-0437	LF	20" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	139.29	11.14
			<i>For SDR 26, Deduct</i>	-21.45	
			<i>For SDR 19, Add</i>	10.53	
			<i>For SDR 17, Add</i>	26.00	
			<i>For SDR 15.5, Add</i>	38.07	
			<i>For SDR 13.5, Add</i>	59.42	
			<i>For SDR 11, Add</i>	95.65	
33 14	13 23-0438	LF	24" DR 21, Butt Fusion Joint High Density Polyethylene (HDPE) Pressure Pipe .....	68.81	13.37
			<i>For SDR 26, Deduct</i>	-7.71	
			<i>For SDR 19, Add</i>	3.79	
			<i>For SDR 17, Add</i>	9.35	
			<i>For SDR 15.5, Add</i>	13.69	
			<i>For SDR 13.5, Add</i>	21.36	
			<i>For SDR 11, Add</i>	34.38	
33 14	13 23-0439	EA	90 Degree Elbows, High Density Polyethylene (HDPE) Pressure Piping <sup>(33 14)</sup> .....		
			<small>13 23-0426)</small>		
33 14	13 23-0440	EA	3" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	68.37	18.30
			<i>For SDR 26, Deduct</i>	-2.47	
			<i>For SDR 19, Add</i>	1.21	
			<i>For SDR 17, Add</i>	3.00	
			<i>For SDR 15.5, Add</i>	4.39	
			<i>For SDR 13.5, Add</i>	6.85	
			<i>For SDR 11, Add</i>	11.02	
33 14	13 23-0441	EA	4" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	77.05	20.34
			<i>For SDR 26, Deduct</i>	-2.94	
			<i>For SDR 19, Add</i>	1.45	
			<i>For SDR 17, Add</i>	3.57	
			<i>For SDR 15.5, Add</i>	5.23	
			<i>For SDR 13.5, Add</i>	8.16	
			<i>For SDR 11, Add</i>	13.13	
33 14	13 23-0442	EA	6" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	112.40	23.24
			<i>For SDR 26, Deduct</i>	-7.83	
			<i>For SDR 19, Add</i>	3.85	
			<i>For SDR 17, Add</i>	9.49	
			<i>For SDR 15.5, Add</i>	13.90	
			<i>For SDR 13.5, Add</i>	21.70	
			<i>For SDR 11, Add</i>	34.93	
33 14	13 23-0443	EA	8" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	170.68	27.13
			<i>For SDR 26, Deduct</i>	-16.37	
			<i>For SDR 19, Add</i>	8.04	
			<i>For SDR 17, Add</i>	19.85	
			<i>For SDR 15.5, Add</i>	29.06	
			<i>For SDR 13.5, Add</i>	45.37	
			<i>For SDR 11, Add</i>	73.02	
33 14	13 23-0444	EA	10" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	257.52	36.23
			<i>For SDR 26, Deduct</i>	-27.33	
			<i>For SDR 19, Add</i>	13.42	
			<i>For SDR 17, Add</i>	33.13	
			<i>For SDR 15.5, Add</i>	48.51	
			<i>For SDR 13.5, Add</i>	75.72	
			<i>For SDR 11, Add</i>	121.87	
33 14	13 23-0445	EA	12" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	380.91	54.23
			<i>For SDR 26, Deduct</i>	-40.02	
			<i>For SDR 19, Add</i>	19.65	
			<i>For SDR 17, Add</i>	48.51	
			<i>For SDR 15.5, Add</i>	71.04	
			<i>For SDR 13.5, Add</i>	110.88	
			<i>For SDR 11, Add</i>	178.47	
33 14	13 23-0446	EA	14" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	477.23	72.37
			<i>For SDR 26, Deduct</i>	-47.70	
			<i>For SDR 19, Add</i>	23.42	
			<i>For SDR 17, Add</i>	57.83	
			<i>For SDR 15.5, Add</i>	84.69	
			<i>For SDR 13.5, Add</i>	132.18	
			<i>For SDR 11, Add</i>	212.75	
33 14	13 23-0447	EA	16" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	636.86	108.44
			<i>For SDR 26, Deduct</i>	-57.13	
			<i>For SDR 19, Add</i>	28.05	
			<i>For SDR 17, Add</i>	69.25	
			<i>For SDR 15.5, Add</i>	101.41	
			<i>For SDR 13.5, Add</i>	158.29	
			<i>For SDR 11, Add</i>	254.78	
33 14	13 23-0448	EA	18" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	790.09	121.99
			<i>For SDR 26, Deduct</i>	-77.74	
			<i>For SDR 19, Add</i>	38.17	
			<i>For SDR 17, Add</i>	94.24	
			<i>For SDR 15.5, Add</i>	138.01	
			<i>For SDR 13.5, Add</i>	215.41	
			<i>For SDR 11, Add</i>	346.71	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14	13 23-0449	EA	20" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,057.39	138.46
			<i>For SDR 26, Deduct</i>	-116.90	
			<i>For SDR 19, Add</i>	57.40	
			<i>For SDR 17, Add</i>	141.71	
			<i>For SDR 15.5, Add</i>	207.53	
			<i>For SDR 13.5, Add</i>	323.92	
			<i>For SDR 11, Add</i>	521.38	
33 14	13 23-0450	EA	24" 90 Degree Elbow, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,339.40	162.73
			<i>For SDR 26, Deduct</i>	-156.07	
			<i>For SDR 19, Add</i>	76.63	
			<i>For SDR 17, Add</i>	189.19	
			<i>For SDR 15.5, Add</i>	277.06	
			<i>For SDR 13.5, Add</i>	432.45	
			<i>For SDR 11, Add</i>	696.05	
<b>33 14</b>	<b>13 23-0451</b>		<b>Tees, High Density Polyethylene (HDPE) Pressure Piping (33 14 13 23-0426)</b>		
33 14	13 23-0452	EA	3" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	74.96	19.15
			<i>For SDR 26, Deduct</i>	-3.23	
			<i>For SDR 19, Add</i>	1.59	
			<i>For SDR 17, Add</i>	3.92	
			<i>For SDR 15.5, Add</i>	5.74	
			<i>For SDR 13.5, Add</i>	8.95	
			<i>For SDR 11, Add</i>	14.41	
33 14	13 23-0453	EA	4" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	85.79	21.69
			<i>For SDR 26, Deduct</i>	-3.81	
			<i>For SDR 19, Add</i>	1.87	
			<i>For SDR 17, Add</i>	4.61	
			<i>For SDR 15.5, Add</i>	6.76	
			<i>For SDR 13.5, Add</i>	10.54	
			<i>For SDR 11, Add</i>	16.97	
33 14	13 23-0454	EA	6" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	129.30	25.04
			<i>For SDR 26, Deduct</i>	-9.95	
			<i>For SDR 19, Add</i>	4.88	
			<i>For SDR 17, Add</i>	12.06	
			<i>For SDR 15.5, Add</i>	17.66	
			<i>For SDR 13.5, Add</i>	27.56	
			<i>For SDR 11, Add</i>	44.36	
33 14	13 23-0455	EA	8" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	226.33	29.59
			<i>For SDR 26, Deduct</i>	-25.23	
			<i>For SDR 19, Add</i>	12.39	
			<i>For SDR 17, Add</i>	30.58	
			<i>For SDR 15.5, Add</i>	44.79	
			<i>For SDR 13.5, Add</i>	69.91	
			<i>For SDR 11, Add</i>	112.52	
33 14	13 23-0456	EA	10" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	311.48	43.43
			<i>For SDR 26, Deduct</i>	-33.24	
			<i>For SDR 19, Add</i>	16.32	
			<i>For SDR 17, Add</i>	40.29	
			<i>For SDR 15.5, Add</i>	59.01	
			<i>For SDR 13.5, Add</i>	92.10	
			<i>For SDR 11, Add</i>	148.25	
33 14	13 23-0457	EA	12" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	442.83	65.14
			<i>For SDR 26, Deduct</i>	-45.39	
			<i>For SDR 19, Add</i>	22.28	
			<i>For SDR 17, Add</i>	55.02	
			<i>For SDR 15.5, Add</i>	80.57	
			<i>For SDR 13.5, Add</i>	125.76	
			<i>For SDR 11, Add</i>	202.42	
33 14	13 23-0458	EA	14" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	535.29	81.37
			<i>For SDR 26, Deduct</i>	-53.40	
			<i>For SDR 19, Add</i>	26.22	
			<i>For SDR 17, Add</i>	64.73	
			<i>For SDR 15.5, Add</i>	94.79	
			<i>For SDR 13.5, Add</i>	147.96	
			<i>For SDR 11, Add</i>	238.15	
33 14	13 23-0459	EA	16" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	712.06	121.99
			<i>For SDR 26, Deduct</i>	-63.41	
			<i>For SDR 19, Add</i>	31.13	
			<i>For SDR 17, Add</i>	76.87	
			<i>For SDR 15.5, Add</i>	112.57	
			<i>For SDR 13.5, Add</i>	175.70	
			<i>For SDR 11, Add</i>	282.80	
33 14	13 23-0460	EA	18" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	906.94	142.12
			<i>For SDR 26, Deduct</i>	-88.10	
			<i>For SDR 19, Add</i>	43.26	
			<i>For SDR 17, Add</i>	106.80	
			<i>For SDR 15.5, Add</i>	156.41	
			<i>For SDR 13.5, Add</i>	244.13	
			<i>For SDR 11, Add</i>	392.94	
33 14	13 23-0461	EA	20" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,250.23	167.86
			<i>For SDR 26, Deduct</i>	-135.83	
			<i>For SDR 19, Add</i>	66.69	
			<i>For SDR 17, Add</i>	164.65	
			<i>For SDR 15.5, Add</i>	241.12	
			<i>For SDR 13.5, Add</i>	376.36	
			<i>For SDR 11, Add</i>	605.78	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 23-0462 EA 24" Tee, DR 21 High Density Polyethylene (HDPE) Pressure Piping.....	1,611.32	203.48
<i>For SDR 26, Deduct</i>	-183.55	
<i>For SDR 19, Add</i>	90.12	
<i>For SDR 17, Add</i>	222.50	
<i>For SDR 15.5, Add</i>	325.85	
<i>For SDR 13.5, Add</i>	508.60	
<i>For SDR 11, Add</i>	818.62	
<b>33 14 13 26 Galvanized Steel Public Water Utility Distribution Piping (33 14 13)</b>		
See CSI section 22 11 16 00-0013 for galvanized steel pipe.		
<b>33 14 13 36 Steel Public Water Utility Distribution Piping (33 14 13)</b>		
33 14 13 36-0001 Steel Piping (33 14 13 36)		
33 14 13 36-0002 Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0001)		
Note: ASTM A252 steel pipe.		
33 14 13 36-0003 Up To 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)		
33 14 13 36-0004 LF 8" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	118.59	31.64
<i>For &lt;100, Add</i>	13.12	
<i>For &gt;1,000, Deduct</i>	-5.93	
33 14 13 36-0005 LF 8" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	141.09	31.64
<i>For &lt;100, Add</i>	14.25	
<i>For &gt;1,000, Deduct</i>	-7.05	
33 14 13 36-0006 LF 10" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	140.78	34.52
<i>For &lt;100, Add</i>	14.88	
<i>For &gt;1,000, Deduct</i>	-7.04	
33 14 13 36-0007 LF 10" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	169.21	34.52
<i>For &lt;100, Add</i>	16.31	
<i>For &gt;1,000, Deduct</i>	-8.46	
33 14 13 36-0008 LF 12" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	169.80	36.16
<i>For &lt;100, Add</i>	16.71	
<i>For &gt;1,000, Deduct</i>	-8.49	
33 14 13 36-0009 LF 12" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	191.92	36.16
<i>For &lt;100, Add</i>	17.81	
<i>For &gt;1,000, Deduct</i>	-9.60	
33 14 13 36-0010 LF 14" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	205.30	39.96
<i>For &lt;100, Add</i>	19.35	
<i>For &gt;1,000, Deduct</i>	-10.27	
33 14 13 36-0011 LF 14" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	222.98	39.96
<i>For &lt;100, Add</i>	20.23	
<i>For &gt;1,000, Deduct</i>	-11.15	
33 14 13 36-0012 LF 16" Diameter, 3/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	217.87	42.19
<i>For &lt;100, Add</i>	20.48	
<i>For &gt;1,000, Deduct</i>	-10.89	
33 14 13 36-0013 LF 16" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	231.52	42.19
<i>For &lt;100, Add</i>	21.16	
<i>For &gt;1,000, Deduct</i>	-11.58	
33 14 13 36-0014 LF 18" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	269.45	47.46
<i>For &lt;100, Add</i>	24.26	
<i>For &gt;1,000, Deduct</i>	-13.47	
33 14 13 36-0015 LF 20" Diameter, 1/4" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	291.82	47.46
<i>For &lt;100, Add</i>	25.38	
<i>For &gt;1,000, Deduct</i>	-14.59	
33 14 13 36-0016 5/16" To 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Piping (33 14 13 36-0002)		
33 14 13 36-0017 LF 12" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	237.08	65.59
<i>For &lt;100, Add</i>	22.16	
<i>For &gt;1,000, Deduct</i>	-11.85	
33 14 13 36-0018 LF 14" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	280.71	72.15
<i>For &lt;100, Add</i>	25.43	
<i>For &gt;1,000, Deduct</i>	-14.04	
33 14 13 36-0019 LF 16" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	311.34	75.43
<i>For &lt;100, Add</i>	27.59	
<i>For &gt;1,000, Deduct</i>	-15.57	
33 14 13 36-0020 LF 18" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	351.19	85.27
<i>For &lt;100, Add</i>	31.09	
<i>For &gt;1,000, Deduct</i>	-17.56	
33 14 13 36-0021 LF 18" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	366.36	85.27
<i>For &lt;100, Add</i>	31.85	
<i>For &gt;1,000, Deduct</i>	-18.32	
33 14 13 36-0022 LF 20" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	380.39	85.27
<i>For &lt;100, Add</i>	32.55	
<i>For &gt;1,000, Deduct</i>	-19.02	
33 14 13 36-0023 LF 20" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	396.57	85.27
<i>For &lt;100, Add</i>	33.36	
<i>For &gt;1,000, Deduct</i>	-19.83	
33 14 13 36-0024 LF 24" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	459.50	98.38
<i>For &lt;100, Add</i>	38.44	
<i>For &gt;1,000, Deduct</i>	-22.98	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 36-0025 LF 24" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	509.55	98.38
For <100, Add	40.94	
For >1,000, Deduct	-25.48	
33 14 13 36-0026 LF 24" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	632.40	98.38
For <100, Add	47.08	
For >1,000, Deduct	-31.62	
33 14 13 36-0027 LF 30" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	570.21	114.78
For <100, Add	46.55	
For >1,000, Deduct	-28.51	
33 14 13 36-0028 LF 30" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	590.68	114.78
For <100, Add	47.57	
For >1,000, Deduct	-29.53	
33 14 13 36-0029 LF 30" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	783.81	114.78
For <100, Add	57.23	
For >1,000, Deduct	-39.19	
33 14 13 36-0030 LF 36" Diameter, 5/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	676.38	114.78
For <100, Add	51.86	
For >1,000, Deduct	-33.82	
33 14 13 36-0031 LF 36" Diameter, 3/8" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	793.45	137.74
For <100, Add	61.32	
For >1,000, Deduct	-39.67	
33 14 13 36-0032 LF 36" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	943.23	137.74
For <100, Add	68.81	
For >1,000, Deduct	-47.16	
33 14 13 36-0033 LF 36" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	905.82	137.74
For <100, Add	66.94	
For >1,000, Deduct	-45.29	
33 14 13 36-0034 LF 42" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,380.03	154.14
For <100, Add	93.05	
For >1,000, Deduct	-69.00	
33 14 13 36-0035 LF 42" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	845.89	154.14
For <100, Add	66.35	
For >1,000, Deduct	-42.29	
33 14 13 36-0036 LF 48" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,582.06	173.82
For <100, Add	106.16	
For >1,000, Deduct	-79.10	
33 14 13 36-0037 LF 48" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	928.62	173.82
For <100, Add	73.49	
For >1,000, Deduct	-46.43	
33 14 13 36-0038 LF 54" Diameter, 7/16" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,659.66	196.77
For <100, Add	113.91	
For >1,000, Deduct	-82.98	
33 14 13 36-0039 LF 54" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,830.29	196.77
For <100, Add	122.44	
For >1,000, Deduct	-91.51	
33 14 13 36-0040 LF 60" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,047.91	229.57
For <100, Add	138.47	
For >1,000, Deduct	-102.40	
33 14 13 36-0041 LF 66" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,441.23	229.57
For <100, Add	108.14	
For >1,000, Deduct	-72.06	
33 14 13 36-0042 LF 72" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	1,607.54	186.97
For <100, Add	136.47	
For >1,000, Deduct	-80.38	
33 14 13 36-0043 LF 78" Diameter, 1/2" Wall Thickness Welded, Plain End, Uncoated Steel Pipe.....	2,977.64	186.97
For <100, Add	204.97	
For >1,000, Deduct	-148.88	
<b>33 14 13 36-0044 Flexible Couplings (Dresser Style 38) (33 14 13 36-0001)</b>		
33 14 13 36-0045 EA 2" Dresser Coupling For Plain End Welded Steel Pipe.....	131.65	36.65
33 14 13 36-0046 EA 3" Dresser Coupling For Plain End Welded Steel Pipe.....	204.84	70.49
33 14 13 36-0047 EA 4" Dresser Coupling For Plain End Welded Steel Pipe.....	272.70	93.05
33 14 13 36-0048 EA 6" Dresser Coupling For Plain End Welded Steel Pipe.....	429.65	140.98
33 14 13 36-0049 EA 8" Dresser Coupling For Plain End Welded Steel Pipe.....	557.52	177.63
33 14 13 36-0050 EA 10" Dresser Coupling For Plain End Welded Steel Pipe.....	672.19	176.36
33 14 13 36-0051 EA 12" Dresser Coupling For Plain End Welded Steel Pipe.....	801.56	221.04
33 14 13 36-0052 EA 14" Dresser Coupling For Plain End Welded Steel Pipe.....	862.25	221.04
33 14 13 36-0053 EA 16" Dresser Coupling For Plain End Welded Steel Pipe.....	912.22	252.78
33 14 13 36-0054 EA 18" Dresser Coupling For Plain End Welded Steel Pipe.....	997.74	270.41
33 14 13 36-0055 EA 20" Dresser Coupling For Plain End Welded Steel Pipe.....	1,087.94	305.69
33 14 13 36-0056 EA 24" Dresser Coupling For Plain End Welded Steel Pipe.....	1,357.19	323.32
33 14 13 36-0057 EA 30" Dresser Coupling For Plain End Welded Steel Pipe.....	1,615.65	352.71
33 14 13 36-0058 EA 36" Dresser Coupling For Plain End Welded Steel Pipe.....	1,889.11	396.81
33 14 13 36-0059 EA 42" Dresser Coupling For Plain End Welded Steel Pipe.....	2,175.17	446.77
33 14 13 36-0060 EA 48" Dresser Coupling For Plain End Welded Steel Pipe.....	2,530.80	514.38
33 14 13 36-0061 EA 54" Dresser Coupling For Plain End Welded Steel Pipe.....	2,812.69	587.85
33 14 13 36-0062 EA 60" Dresser Coupling For Plain End Welded Steel Pipe.....	3,257.72	734.82
33 14 13 36-0063 EA 66" Dresser Coupling For Plain End Welded Steel Pipe.....	3,765.71	893.54
33 14 13 36-0064 EA 72" Dresser Coupling For Plain End Welded Steel Pipe.....	4,490.79	1,058.14

**33 14 13 39 Copper Public Water Utility Distribution Piping (33 14 13)**



	<b>Utilities</b>	<b>33</b>	
	<b>Water Utilities</b>	<b>33 10</b>	<b>CS</b>
	<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>33 14 13 39-0001</b>	<b>Type L Copper Water Distribution Piping</b> <small>(33 14 13 39)</small>		
33 14 13 39-0002	LF 1/2" Type L Copper Water Distribution Pipe .....	9.08	2.44
33 14 13 39-0003	LF 3/4" Type L Copper Water Distribution Pipe .....	11.47	2.75
33 14 13 39-0004	LF 1" Type L Copper Water Distribution Pipe .....	15.19	3.05
33 14 13 39-0005	LF 1-1/4" Type L Copper Water Distribution Pipe .....	19.00	3.66
33 14 13 39-0006	LF 1-1/2" Type L Copper Water Distribution Pipe .....	23.44	4.89
33 14 13 39-0007	LF 2" Type L Copper Water Distribution Pipe .....	34.21	6.11
33 14 13 39-0008	LF 2-1/2" Type L Copper Water Distribution Pipe .....	43.20	7.33
33 14 13 39-0009	LF 3" Type L Copper Water Distribution Pipe .....	54.25	8.06
33 14 13 39-0010	LF 3-1/2" Type L Copper Water Distribution Pipe .....	72.89	10.14
33 14 13 39-0011	LF 4" Type L Copper Water Distribution Pipe .....	96.29	12.82
33 14 13 39-0012	LF 5" Type L Copper Water Distribution Pipe .....	155.35	16.00
33 14 13 39-0013	LF 6" Type L Copper Water Distribution Pipe .....	200.76	19.30
33 14 13 39-0014	LF 8" Type L Copper Water Distribution Pipe .....	346.49	21.61

<b>33 14 13 39-0015</b>	<b>Type K Copper Water Distribution Piping</b> <small>(33 14 13 39)</small>		
33 14 13 39-0016	LF 1/2" Type K Copper Water Distribution Pipe .....	9.68	2.44
33 14 13 39-0017	LF 3/4" Type K Copper Water Distribution Pipe .....	13.58	2.75
33 14 13 39-0018	LF 1" Type K Copper Water Distribution Pipe .....	17.28	3.05
33 14 13 39-0019	LF 1-1/4" Type K Copper Water Distribution Pipe .....	20.30	3.66
33 14 13 39-0020	LF 1-1/2" Type K Copper Water Distribution Pipe .....	25.36	4.89
33 14 13 39-0021	LF 2" Type K Copper Water Distribution Pipe .....	36.79	6.11
33 14 13 39-0022	LF 2-1/2" Type K Copper Water Distribution Pipe .....	50.36	7.33
33 14 13 39-0023	LF 3" Type K Copper Water Distribution Pipe .....	64.99	8.06
33 14 13 39-0024	LF 3-1/2" Type K Copper Water Distribution Pipe .....	85.51	10.14
33 14 13 39-0025	LF 4" Type K Copper Water Distribution Pipe .....	115.44	12.82
33 14 13 39-0026	LF 5" Type K Copper Water Distribution Pipe .....	194.97	16.00
33 14 13 39-0027	LF 6" Type K Copper Water Distribution Pipe .....	272.01	19.30
33 14 13 39-0028	LF 8" Type K Copper Water Distribution Pipe .....	477.98	21.61

**33 14 13 43 Public Water Utility Distribution Piping Coatings and Wraps** (33 14 13)

<b>33 14 13 43-0001</b>	<b>Pipe Coatings</b> <small>(33 14 13 43)</small>		
<b>33 14 13 43-0002</b>	<b>Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating</b> <small>(33 14 13 43-0001)</small>		
	Note: Applied at fabrication shop.		
33 14 13 43-0003	LF 8" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	3.50	
33 14 13 43-0004	LF 10" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	4.16	
33 14 13 43-0005	LF 12" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	4.91	
33 14 13 43-0006	LF 14" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	6.53	
33 14 13 43-0007	LF 16" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	7.45	
33 14 13 43-0008	LF 18" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	7.83	
33 14 13 43-0009	LF 20" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	8.43	
33 14 13 43-0010	LF 24" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	9.83	
33 14 13 43-0011	LF 30" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	12.90	
33 14 13 43-0012	LF 36" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	20.38	
33 14 13 43-0013	LF 42" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	43.93	
33 14 13 43-0014	LF 48" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	50.20	
33 14 13 43-0015	LF 54" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	56.48	
33 14 13 43-0016	LF 60" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	62.76	
33 14 13 43-0017	LF 66" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	69.03	
33 14 13 43-0018	LF 72" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	75.28	
33 14 13 43-0019	LF 78" Outside Diameter Of Pipe, Coal Tar Epoxy, Wrapped With Kraft Paper, Pipe Coating .....	81.58	

<b>33 14 13 43-0020</b>	<b>Cement Coating With Fiberglass Or Wire Mesh Reinforcing</b> <small>(33 14 13 43-0001)</small>		
	Note: Applied at fabrication shop. Thickness ranging between 1" and 2".		
33 14 13 43-0021	LF 4" Diameter Cement Coated Pipe 1" To 2" Mesh .....	11.94	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0022	LF 6" Diameter Cement Coated Pipe 1" To 2" Mesh .....	14.69	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0023	LF 8" Diameter Cement Coated Pipe 1" To 2" Mesh .....	18.37	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0024	LF 10" Diameter Cement Coated Pipe 1" To 2" Mesh .....	20.46	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0025	LF 12" Diameter Cement Coated Pipe 1" To 2" Mesh .....	23.11	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0026	LF 14" Diameter Cement Coated Pipe 1" To 2" Mesh .....	27.04	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0027	LF 16" Diameter Cement Coated Pipe 1" To 2" Mesh .....	30.72	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0028	LF 18" Diameter Cement Coated Pipe 1" To 2" Mesh .....	34.66	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0029	LF 20" Diameter Cement Coated Pipe 1" To 2" Mesh .....	38.52	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0030	LF 24" Diameter Cement Coated Pipe 1" To 2" Mesh .....	46.21	
	Note: Reinforcing applied at fabrication shop.		
33 14 13 43-0031	LF 30" Diameter Cement Coated Pipe 1" To 2" Mesh .....	57.76	
	Note: Reinforcing applied at fabrication shop.		

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 43-0032 LF 36" Diameter Cement Coated Pipe 1" To 2" Mesh ..... Note: Reinforcing applied at fabrication shop.	69.32	
33 14 13 43-0033 LF 42" Diameter Cement Coated Pipe 1" To 2" Mesh ..... Note: Reinforcing applied at fabrication shop.	25.10	
33 14 13 43-0034 LF 48" Diameter Cement Coated Pipe 1" To 2" Mesh ..... Note: Reinforcing applied at fabrication shop.	28.68	
33 14 13 43-0035 LF 54" Diameter Cement Coated Pipe 1" To 2" Mesh ..... Note: Reinforcing applied at fabrication shop.	32.27	
33 14 13 43-0036 LF 60" Diameter Cement Coated Pipe 1" To 2" Mesh ..... Note: Reinforcing applied at fabrication shop.	35.85	
33 14 13 43-0037 LF 66" Diameter Cement Coated Pipe 1" To 2" Mesh ..... Note: Reinforcing applied at fabrication shop.	39.44	
33 14 13 43-0038 LF 72" Diameter Cement Coated Pipe 1" To 2" Mesh ..... Note: Reinforcing applied at fabrication shop.	43.02	
33 14 13 43-0039 LF 78" Diameter Cement Coated Pipe 1" To 2" Mesh ..... Note: Reinforcing applied at fabrication shop.	46.61	
<b>33 14 13 43-0040 Pipe Lining</b> <small>(33 14 13 43)</small>		
<b>33 14 13 43-0041 Cement Pipe Lining</b> <small>(33 14 13 43-0040)</small> Note: Shop applied.		
33 14 13 43-0042 LF 4" Outside Diameter, 1/4" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	15.43 1.59	
33 14 13 43-0043 LF 6" Outside Diameter, 1/4" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	19.13 1.96	
33 14 13 43-0044 LF 8" Outside Diameter, 1/4" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	23.44 2.45	
33 14 13 43-0045 LF 10" Outside Diameter, 1/4" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	30.24 3.06	
33 14 13 43-0046 LF 12" Outside Diameter, 1/4" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	37.08 3.68	
33 14 13 43-0047 LF 14" Outside Diameter, 1/4" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	46.75 4.31	
33 14 13 43-0048 LF 16" Outside Diameter, 1/4" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	59.49 4.90	
33 14 13 43-0049 LF 18" Outside Diameter, 5/16" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	70.55 4.69	
33 14 13 43-0050 LF 20" Outside Diameter, 5/16" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	84.37 5.22	
33 14 13 43-0051 LF 24" Outside Diameter, 5/16" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	102.16 6.26	
33 14 13 43-0052 LF 30" Outside Diameter, 5/16" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	123.50 7.82	
33 14 13 43-0053 LF 36" Outside Diameter, 5/16" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	148.58 9.39	
33 14 13 43-0054 LF 42" Outside Diameter, 3/8" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	173.37 8.05	
33 14 13 43-0055 LF 48" Outside Diameter, 3/8" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	198.07 9.21	
33 14 13 43-0056 LF 54" Outside Diameter, 3/8" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	222.87 10.36	
33 14 13 43-0057 LF 60" Outside Diameter, 3/8" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	247.66 11.51	
33 14 13 43-0058 LF 66" Outside Diameter, 7/16" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	272.36 6.75	
33 14 13 43-0059 LF 72" Outside Diameter, 7/16" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	297.15 7.36	
33 14 13 43-0060 LF 78" Outside Diameter, 7/16" Thick Cement Pipe Lining ..... <i>For 1/2" Thick, Add</i>	321.95 7.98	
<b>33 14 13 43-0061 Cement Fitting Lining</b> <small>(33 14 13 43-0040)</small> Note: Shop applied.		
33 14 13 43-0062 EA 4" Outside Diameter, 1/4" Thick Cement Fitting Lining ..... <i>For 1/2" Thick, Add</i>	15.43 1.59	
33 14 13 43-0063 EA 6" Outside Diameter, 1/4" Thick Cement Fitting Lining ..... <i>For 1/2" Thick, Add</i>	19.13 1.96	
33 14 13 43-0064 EA 8" Outside Diameter, 1/4" Thick Cement Fitting Lining ..... <i>For 1/2" Thick, Add</i>	29.92 3.18	
33 14 13 43-0065 EA 10" Outside Diameter, 1/4" Thick Cement Fitting Lining ..... <i>For 1/2" Thick, Add</i>	48.77 4.90	
33 14 13 43-0066 EA 12" Outside Diameter, 1/4" Thick Cement Fitting Lining ..... <i>For 1/2" Thick, Add</i>	74.16 7.36	
33 14 13 43-0067 EA 14" Outside Diameter, 1/4" Thick Cement Fitting Lining ..... <i>For 1/2" Thick, Add</i>	108.36 9.91	
33 14 13 43-0068 EA 16" Outside Diameter, 1/4" Thick Cement Fitting Lining ..... <i>For 1/2" Thick, Add</i>	156.99 12.73	
33 14 13 43-0069 EA 18" Outside Diameter, 5/16" Thick Cement Fittings Lining ..... <i>For 1/2" Thick, Add</i>	211.67 14.08	
33 14 13 43-0070 EA 20" Outside Diameter, 5/16" Thick Cement Fitting Lining ..... <i>For 1/2" Thick, Add</i>	281.06 17.37	
33 14 13 43-0071 EA 24" Outside Diameter, 5/16" Thick Cement Fitting Lining ..... <i>For 1/2" Thick, Add</i>	408.66 25.04	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**33 14 13 43-0072**

**8 Mil Polyethylene Encasement Tubing (33 14 13 43)**

Note: ANSI/AWWA C105/A21.5-99 section 4.2.

33 14 13 43-0073	LF	3" To 8" Diameter, 8 Mil Polyethylene Encasement Tubing.....	1.93
33 14 13 43-0074	LF	10" To 12" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.12
33 14 13 43-0075	LF	14" To 16" Diameter, 8 Mil Polyethylene Encasement Tubing.....	3.79
33 14 13 43-0076	LF	18" To 20" Diameter, 8 Mil Polyethylene Encasement Tubing.....	4.75
33 14 13 43-0077	LF	24" Diameter, 8 Mil Polyethylene Encasement Tubing.....	6.45
33 14 13 43-0078	LF	30" Diameter, 8 Mil Polyethylene Encasement Tubing.....	8.28
33 14 13 43-0079	LF	36" To 42" Diameter, 8 Mil Polyethylene Encasement Tubing.....	10.55
33 14 13 43-0080	LF	48" Diameter, 8 Mil Polyethylene Encasement Tubing.....	12.56
33 14 13 43-0081	LF	54" Diameter, 8 Mil Polyethylene Encasement Tubing.....	14.84
33 14 13 43-0082	LF	60" Diameter, 8 Mil Polyethylene Encasement Tubing.....	15.97

**33 14 13 53**

**Public Water Utility Distribution Piping Saddles And Adapters (33 14 13)**

**33 14 13 53-0001**

**Double Stud Stainless Steel Service Saddles (33 14 13 53)**

Note: 1/2" listed taps are compression, 3/4" to 2" are either compression or NPT.

33 14 13 53-0002	EA	4" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	282.27
33 14 13 53-0003	EA	4" Diameter x 1-1/4" Or 1-1/2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	388.79
33 14 13 53-0004	EA	4" Diameter x 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372).....	402.46
33 14 13 53-0005	EA	6" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	335.07
33 14 13 53-0006	EA	6" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	418.16
33 14 13 53-0007	EA	8" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	350.67
33 14 13 53-0008	EA	8" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	438.22
33 14 13 53-0009	EA	10" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	393.20
33 14 13 53-0010	EA	10" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	461.70
33 14 13 53-0011	EA	12" Diameter x 1/2", 3/4" Or 1" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	410.50
33 14 13 53-0012	EA	12" Diameter x 1-1/4", 1-1/2" Or 2" Tap Double Stud Stainless Steel Service Saddle (Smith-Blair 372) .....	473.05

**33 14 13 53-0013**

**Double Bale Epoxy Coated Ductile Iron Body Service Saddles (33 14 13 53)**

Note: Electro-galvanized steel bales. 5/8" listed taps are compression. 3/4" to 2" are either compression or NPT. 2-1/2", 3" or 4" are NPT.

33 14 13 53-0014	EA	1-1/4" To 1-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	241.69
33 14 13 53-0015	EA	2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	241.84
33 14 13 53-0016	EA	2" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	257.37
33 14 13 53-0017	EA	2-1/2" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	245.45
33 14 13 53-0018	EA	3" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	262.53
33 14 13 53-0019	EA	3" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	289.19
33 14 13 53-0020	EA	3" Diameter x 2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	307.43
33 14 13 53-0021	EA	4" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	282.09
33 14 13 53-0022	EA	4" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	308.96
33 14 13 53-0023	EA	4" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	324.79
33 14 13 53-0024	EA	5" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	297.75
33 14 13 53-0025	EA	5" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	325.41
33 14 13 53-0026	EA	5" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	341.18
33 14 13 53-0027	EA	6" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	313.88
33 14 13 53-0028	EA	6" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	340.80
33 14 13 53-0029	EA	6" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	356.38
33 14 13 53-0030	EA	6" Diameter x 3" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	506.19
33 14 13 53-0031	EA	6" Diameter x 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	519.86
33 14 13 53-0032	EA	8" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	338.88
33 14 13 53-0033	EA	8" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	371.03
33 14 13 53-0034	EA	8" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	385.62
33 14 13 53-0035	EA	8" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	595.63
33 14 13 53-0036	EA	10" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	376.91
33 14 13 53-0037	EA	10" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	415.13
33 14 13 53-0038	EA	10" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	661.88
33 14 13 53-0039	EA	12" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	408.52
33 14 13 53-0040	EA	12" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	448.84
33 14 13 53-0041	EA	12" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	465.22
33 14 13 53-0042	EA	12" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	735.28
33 14 13 53-0043	EA	14" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	471.97
33 14 13 53-0044	EA	14" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	503.94
33 14 13 53-0045	EA	14" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	541.10
33 14 13 53-0046	EA	14" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	894.73
33 14 13 53-0047	EA	15" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	485.63
33 14 13 53-0048	EA	15" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	548.72
33 14 13 53-0049	EA	15" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	571.48
33 14 13 53-0050	EA	15" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	959.79
33 14 13 53-0051	EA	16" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	507.29
33 14 13 53-0052	EA	16" Diameter x 1-1/4" To 1-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	572.62
33 14 13 53-0053	EA	16" Diameter x 2" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	595.94

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 13 53-0054 EA 16" Diameter x 3" To 4" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	998.53	
33 14 13 53-0055 EA 18" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	558.47	
33 14 13 53-0056 EA 18" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	641.99	
33 14 13 53-0057 EA 20" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	631.69	
33 14 13 53-0058 EA 20" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	697.65	
33 14 13 53-0059 EA 24" Diameter x 5/8" To 1" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	659.37	
33 14 13 53-0060 EA 24" Diameter x 1-1/4" To 2-1/2" Tap Double Bale Epoxy Coated Ductile Iron Body Service Saddle (Smith-Blair 313) .....	741.45	
<b>33 14 13 53-0061 Double Bale Bronze Service Saddles (33 14 13 53)</b>		
33 14 13 53-0062 EA 4" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	327.64	
33 14 13 53-0063 EA 4" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	357.16	
33 14 13 53-0064 EA 6" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	371.90	
33 14 13 53-0065 EA 6" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	401.68	
33 14 13 53-0066 EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	412.29	
33 14 13 53-0067 EA 8" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	433.27	
33 14 13 53-0068 EA 8" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	402.54	
33 14 13 53-0069 EA 10" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	427.54	
33 14 13 53-0070 EA 12" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	502.20	
33 14 13 53-0071 EA 12" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	541.64	
33 14 13 53-0072 EA 14" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	736.97	
33 14 13 53-0073 EA 14" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	828.89	
33 14 13 53-0074 EA 16" Diameter x 3/4" To 1" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	853.87	
33 14 13 53-0075 EA 16" Diameter x 1-1/4" To 2" Tap Double Bale Bronze Service Saddle (Mueller BR2B) .....	949.59	
<b>33 14 13 53-0076 Stainless Steel Double Straps, Bronze Body Service Saddle (33 14 13 53)</b>		
Note: Taps are compression or NPT.		
33 14 13 53-0077 EA 4" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	342.71	
33 14 13 53-0078 EA 4" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	376.18	
33 14 13 53-0079 EA 6" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	389.70	
33 14 13 53-0080 EA 6" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	422.01	
33 14 13 53-0081 EA 8" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	434.29	
33 14 13 53-0082 EA 8" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	456.45	
33 14 13 53-0083 EA 10" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	486.41	
33 14 13 53-0084 EA 10" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	519.69	
33 14 13 53-0085 EA 12" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	522.36	
33 14 13 53-0086 EA 12" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	564.40	
33 14 13 53-0087 EA 14" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	786.93	
33 14 13 53-0088 EA 14" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	899.54	
33 14 13 53-0089 EA 16" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	913.15	
33 14 13 53-0090 EA 16" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	992.61	
33 14 13 53-0091 EA 18" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	1,959.43	
33 14 13 53-0092 EA 18" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	1,959.43	
33 14 13 53-0093 EA 20" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	2,036.62	
33 14 13 53-0094 EA 20" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	2,036.62	
33 14 13 53-0095 EA 24" Diameter x 3/4" To 1" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	2,185.49	
33 14 13 53-0096 EA 24" Diameter x 1-1/4" To 2" Tap Stainless Steel Double Straps, Bronze Body Service Saddle (Mueller BR2S) .....	2,185.49	
<b>33 14 13 53-0097 Ductile Iron Mechanical Joint Tapping Sleeve (33 14 13 53)</b>		
33 14 13 53-0098 EA 4" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	1,487.42	
33 14 13 53-0099 EA 6" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	1,798.13	
33 14 13 53-0100 EA 8" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	2,145.57	
33 14 13 53-0101 EA 8" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	2,266.45	
33 14 13 53-0102 EA 10" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,391.34	
33 14 13 53-0103 EA 10" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,559.04	
33 14 13 53-0104 EA 10" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,633.05	
33 14 13 53-0105 EA 12" Diameter x 4" Or 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,596.34	
33 14 13 53-0106 EA 12" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	3,763.37	
33 14 13 53-0107 EA 12" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	4,165.13	
33 14 13 53-0108 EA 12" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	4,269.84	
33 14 13 53-0109 EA 14" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,039.57	
33 14 13 53-0110 EA 14" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,227.84	
33 14 13 53-0111 EA 14" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,314.51	
33 14 13 53-0112 EA 14" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,353.84	
33 14 13 53-0113 EA 14" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,622.95	
33 14 13 53-0114 EA 16" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,616.74	
33 14 13 53-0115 EA 16" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,644.09	
33 14 13 53-0116 EA 16" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,854.03	
33 14 13 53-0117 EA 16" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,906.34	
33 14 13 53-0118 EA 16" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	7,963.53	
33 14 13 53-0119 EA 16" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	12,097.24	
33 14 13 53-0120 EA 16" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	8,355.19	
33 14 13 53-0121 EA 18" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	10,549.32	
33 14 13 53-0122 EA 18" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	11,018.81	
33 14 13 53-0123 EA 18" Diameter x 8", 10", 12" Or 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	11,161.03	
33 14 13 53-0124 EA 18" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	11,580.03	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14	13 53-0125	EA 20" Diameter x 4" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	9,922.63	
33 14	13 53-0126	EA 20" Diameter x 6" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	9,572.41	
33 14	13 53-0127	EA 20" Diameter x 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	9,753.74	
33 14	13 53-0128	EA 20" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	9,826.77	
33 14	13 53-0129	EA 20" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	10,176.07	
33 14	13 53-0130	EA 20" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	13,664.32	
33 14	13 53-0131	EA 20" Diameter x 16", 18" Or 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	13,938.47	
33 14	13 53-0132	EA 24" Diameter x 4", 6" Or 8" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	11,968.42	
33 14	13 53-0133	EA 24" Diameter x 10" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	12,136.40	
33 14	13 53-0134	EA 24" Diameter x 12" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	12,186.12	
33 14	13 53-0135	EA 24" Diameter x 14" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	16,758.85	
33 14	13 53-0136	EA 24" Diameter x 16" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	16,977.48	
33 14	13 53-0137	EA 24" Diameter x 18" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	17,032.15	
33 14	13 53-0138	EA 24" Diameter x 20" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	17,496.67	
33 14	13 53-0139	EA 24" Diameter x 24" Tap Ductile Iron Mechanical Joint Tapping Sleeve (Mueller H-615) .....	17,721.19	

**33 14 13 53-0140 Carbon Steel Epoxy Coated Flange, Stainless Steel Tapping Sleeve** (33 14 13 53)

33 14	13 53-0141	EA 4" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,224.61	
33 14	13 53-0142	EA 6" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,308.46	
33 14	13 53-0143	EA 6" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,426.60	
33 14	13 53-0144	EA 8" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,474.35	
33 14	13 53-0145	EA 8" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,534.97	
33 14	13 53-0146	EA 8" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,752.65	
33 14	13 53-0147	EA 10" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,612.92	
33 14	13 53-0148	EA 10" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,672.02	
33 14	13 53-0149	EA 10" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,863.80	
33 14	13 53-0150	EA 10" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,536.84	
33 14	13 53-0151	EA 12" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,818.71	
33 14	13 53-0152	EA 12" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	1,903.81	
33 14	13 53-0153	EA 12" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,092.58	
33 14	13 53-0154	EA 12" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,695.87	
33 14	13 53-0155	EA 12" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,931.70	
33 14	13 53-0156	EA 14" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,371.34	
33 14	13 53-0157	EA 14" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,442.33	
33 14	13 53-0158	EA 14" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,843.51	
33 14	13 53-0159	EA 14" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,340.08	
33 14	13 53-0160	EA 14" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,664.18	
33 14	13 53-0161	EA 16" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,808.41	
33 14	13 53-0162	EA 16" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,881.58	
33 14	13 53-0163	EA 16" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,148.30	
33 14	13 53-0164	EA 16" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,857.08	
33 14	13 53-0165	EA 16" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	4,027.18	
33 14	13 53-0166	EA 18" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	2,991.96	
33 14	13 53-0167	EA 18" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,121.77	
33 14	13 53-0168	EA 18" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,300.78	
33 14	13 53-0169	EA 18" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	4,134.20	
33 14	13 53-0170	EA 18" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	4,304.12	
33 14	13 53-0171	EA 20" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,598.21	
33 14	13 53-0172	EA 20" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,671.24	
33 14	13 53-0173	EA 20" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	4,068.74	
33 14	13 53-0174	EA 20" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	4,738.53	
33 14	13 53-0175	EA 20" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	5,024.70	
33 14	13 53-0176	EA 24" Diameter x 4" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	3,890.86	
33 14	13 53-0177	EA 24" Diameter x 6" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	4,046.83	
33 14	13 53-0178	EA 24" Diameter x 8" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	4,256.27	
33 14	13 53-0179	EA 24" Diameter x 10" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	5,205.52	
33 14	13 53-0180	EA 24" Diameter x 12" Epoxy Coated Carbon Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 662) .....	5,382.53	

**33 14 13 53-0181 Stainless Steel Flange, Stainless Steel Tapping Sleeve** (33 14 13 53)

33 14	13 53-0182	EA 4" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	1,405.66	
33 14	13 53-0183	EA 6" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	1,537.13	
33 14	13 53-0184	EA 6" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	1,625.86	
33 14	13 53-0185	EA 8" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	1,665.63	
33 14	13 53-0186	EA 8" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	1,767.33	
33 14	13 53-0187	EA 8" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	2,064.37	
33 14	13 53-0188	EA 10" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	1,909.05	
33 14	13 53-0189	EA 10" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	2,021.44	
33 14	13 53-0190	EA 10" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	2,288.05	
33 14	13 53-0191	EA 10" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	3,056.22	
33 14	13 53-0192	EA 12" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	2,182.25	
33 14	13 53-0193	EA 12" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	2,334.23	
33 14	13 53-0194	EA 12" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	2,685.34	
33 14	13 53-0195	EA 12" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	3,141.76	
33 14	13 53-0196	EA 12" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	3,491.51	
33 14	13 53-0197	EA 14" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	2,491.12	
33 14	13 53-0198	EA 14" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	2,676.79	
33 14	13 53-0199	EA 14" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	3,071.71	
33 14	13 53-0200	EA 14" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	3,528.57	
33 14	13 53-0201	EA 14" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663) .....	3,771.80	

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 14 13 53-0202	EA	16" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,025.99	
33 14 13 53-0203	EA	16" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,278.56	
33 14 13 53-0204	EA	16" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,471.82	
33 14 13 53-0205	EA	16" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,962.80	
33 14 13 53-0206	EA	16" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,296.95	
33 14 13 53-0207	EA	18" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,343.15	
33 14 13 53-0208	EA	18" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,718.98	
33 14 13 53-0209	EA	18" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,920.54	
33 14 13 53-0210	EA	18" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,352.38	
33 14 13 53-0211	EA	18" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,922.64	
33 14 13 53-0212	EA	20" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,618.95	
33 14 13 53-0213	EA	20" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	3,993.82	
33 14 13 53-0214	EA	20" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,158.22	
33 14 13 53-0215	EA	20" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,958.92	
33 14 13 53-0216	EA	20" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,406.11	
33 14 13 53-0217	EA	24" Diameter x 4" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,273.87	
33 14 13 53-0218	EA	24" Diameter x 6" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,330.10	
33 14 13 53-0219	EA	24" Diameter x 8" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	4,526.57	
33 14 13 53-0220	EA	24" Diameter x 10" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,481.68	
33 14 13 53-0221	EA	24" Diameter x 12" Stainless Steel Flange, Stainless Steel Tapping Sleeve (Smith-Blair 663)	5,993.03	

**33 14 13 53-0222 Ductile Iron Body, Flanged Coupling Adapter (33 14 13 53)**

33 14 13 53-0223	EA	3" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	373.37	82.04
33 14 13 53-0224	EA	4" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	468.14	103.44
33 14 13 53-0225	EA	6" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	619.03	142.68
33 14 13 53-0226	EA	8" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	793.28	167.65
33 14 13 53-0227	EA	10" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,207.18	189.05
33 14 13 53-0228	EA	12" Ductile Iron Body, Flanged Coupling Adapter (Smith-Blair 912)	1,350.07	214.03

**33 14 13 53-0229 Steel Body, Flanged Coupling Adapter (33 14 13 53)**

33 14 13 53-0230	EA	3" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	525.23	82.04
33 14 13 53-0231	EA	4" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	624.40	103.44
33 14 13 53-0232	EA	6" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	836.09	142.68
33 14 13 53-0233	EA	8" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,019.19	167.65
33 14 13 53-0234	EA	10" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,236.16	189.05
33 14 13 53-0235	EA	12" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,437.22	214.03
33 14 13 53-0236	EA	14" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,697.73	235.43
33 14 13 53-0237	EA	16" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	1,999.26	256.83
33 14 13 53-0238	EA	18" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,350.26	282.51
33 14 13 53-0239	EA	20" Steel Body, Flanged Coupling Adapter (Smith-Blair 913)	2,765.34	310.76

**33 14 13 53-0240 Steel Body, Flanged-Lock Restrained Coupling Adapters (33 14 13 53)**

33 14 13 53-0241	EA	4" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	478.30	103.44
33 14 13 53-0242	EA	6" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	644.10	142.68
33 14 13 53-0243	EA	8" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	718.26	167.65
33 14 13 53-0244	EA	10" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,019.62	189.05
33 14 13 53-0245	EA	12" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,284.68	214.03
33 14 13 53-0246	EA	14" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,438.50	235.43
33 14 13 53-0247	EA	16" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,680.54	256.83
33 14 13 53-0248	EA	18" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	1,882.98	282.51
33 14 13 53-0249	EA	20" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,247.94	310.76
33 14 13 53-0250	EA	24" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	2,690.89	341.87
33 14 13 53-0251	EA	30" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	5,429.26	375.97
33 14 13 53-0252	EA	36" Steel Body, Flanged-Lock Restrained Coupling Adapter (Smith-Blair 911)	7,278.37	413.64

**33 14 13 53-0253 Ductile Iron Body, Omni Coupling System (33 14 13 53)**

33 14 13 53-0254	EA	2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	179.24	57.07
33 14 13 53-0255	EA	2-1/2" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	219.72	67.77
33 14 13 53-0256	EA	3" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	271.04	82.04
33 14 13 53-0257	EA	4" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	340.58	103.44
33 14 13 53-0258	EA	6" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	456.84	142.68
33 14 13 53-0259	EA	8" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	552.06	167.65
33 14 13 53-0260	EA	10" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	679.04	189.05
33 14 13 53-0261	EA	12" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	790.41	214.03
33 14 13 53-0262	EA	14" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,077.05	235.43
33 14 13 53-0263	EA	16" Ductile Iron Body, Omni Coupling System (Smith-Blair 441)	1,324.33	256.83

**33 14 19 Valves and Hydrants for Water Utility Service (33 14)**

Note: Flanged valves excludes bolt and gasket set. Excludes excavation and backfill. See CSI section 23 21 13 23-0713 for bolt and gasket sets.

**33 14 19 00-0001 Water Utility Distribution Valves (33 14 19)****33 14 19 00-0002 Angle Valves (33 14 19 00-0001)**

Note: For connecting meters to water service.





<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>33 14 19 00-0003</b>	<b>Threaded, Class 150, Bronze Angle Valve</b> <small>(33 14 19 00-0002)</small>		
Note: Nibco T-335Y			
33 14 19 00-0004	EA 1/2" Threaded, Class 150, Bronze Angle Valve.....	113.10	24.50
33 14 19 00-0005	EA 3/4" Threaded, Class 150, Bronze Angle Valve.....	152.51	32.92
33 14 19 00-0006	EA 1" Threaded, Class 150, Bronze Angle Valve.....	202.94	40.58
33 14 19 00-0007	EA 1-1/4" Threaded, Class 150, Bronze Angle Valve.....	260.83	50.99
33 14 19 00-0008	EA 1-1/2" Threaded, Class 150, Bronze Angle Valve.....	323.04	58.96
33 14 19 00-0009	EA 2" Threaded, Class 150, Bronze Angle Valve.....	471.86	68.91
33 14 19 00-0010	EA 2-1/2" Threaded, Class 150, Bronze Angle Valve.....	746.09	94.03
33 14 19 00-0011	EA 3" Threaded, Class 150, Bronze Angle Valve.....	1,113.72	108.55

**33 14 19 00-0012** **Butterfly Valves** (33 14 19 00-0001)

**33 14 19 00-0013** **Lug Type Flanged, Cast Iron Disc, Butterfly Valves** (33 14 19 00-0012)

Note: ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin			
33 14 19 00-0014	EA 3" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....	2,048.10	260.32
33 14 19 00-0015	EA 3" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,3,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....	2,281.40	260.32
33 14 19 00-0016	EA 4" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....	2,340.67	402.79
33 14 19 00-0017	EA 4" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,4,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....	2,571.98	402.79
33 14 19 00-0018	EA 6" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....	2,657.87	449.69
33 14 19 00-0019	EA 6" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,6,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....	2,889.18	449.69
33 14 19 00-0020	EA 8" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....	3,029.28	574.61
33 14 19 00-0021	EA 8" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,8,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....	3,248.89	574.61
33 14 19 00-0022	EA 10" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....	3,781.71	699.52
33 14 19 00-0023	EA 10" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,10,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....	4,998.42	699.52
33 14 19 00-0024	EA 12" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD8 Modified).....	4,340.73	847.89
33 14 19 00-0025	EA 12" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,12,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW8 Modified).....	4,572.04	847.89
33 14 19 00-0026	EA 14" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD12 Modified).....	5,759.37	1,135.21
33 14 19 00-0027	EA 14" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,14,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW12 Modified).....	6,364.22	1,135.21
33 14 19 00-0028	EA 16" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD16 Modified).....	6,694.89	1,248.73
33 14 19 00-0029	EA 16" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,16,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW20 Modified).....	7,436.68	1,248.73
33 14 19 00-0030	EA 18" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24 Modified).....	8,359.38	1,384.96
33 14 19 00-0031	EA 18" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,18,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24 Modified).....	9,145.03	1,384.96
33 14 19 00-0032	EA 20" Handwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-HD24 Modified).....	9,575.01	1,560.91
33 14 19 00-0033	EA 20" Chainwheel Operated, Flanged, ANSI Class 125, Cast Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Cast Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,20,F1,CI,NBRN-NBR,150B,CI-S2*GS-6B-CW24 Modified).....	10,359.33	1,560.91

**33 14 19 00-0034** **Lug Type Flanged, Ductile Iron Disc, Butterfly Valves** (33 14 19 00-0012)

Note: ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, 304 Stainless Steel Pin			
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**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0035 EA 24" Chainwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-CW20 Modified).....	15,870.13	1,915.67
33 14 19 00-0036 EA 24" Cylinder Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12-PC10 Modified).....	24,576.98	1,915.67
33 14 19 00-0037 EA 24" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,24,F1,DI,NBRN-NBR,150B,DI-S2*GS-12A-HD20 Modified).....	15,823.47	1,915.67
33 14 19 00-0038 EA 30" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,30,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified).....	32,327.27	3,061.64
33 14 19 00-0039 EA 36" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,36,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD24 Modified).....	38,371.67	4,082.18
33 14 19 00-0040 EA 42" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,42,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR3L-HD32 Modified).....	48,948.63	6,123.27
33 14 19 00-0041 EA 48" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,48,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR4L-HD24 Modified).....	63,880.43	7,654.09
33 14 19 00-0042 EA 54" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,54,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD24 Modified).....	107,051.17	9,184.91
33 14 19 00-0043 EA 60" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,60,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR6L-HD36 Modified).....	134,040.13	11,021.89
33 14 19 00-0044 EA 72" Handwheel Operated, Flanged, ANSI Class 125, Ductile Iron Body, Acrylonitrile-Butadiene Packing, Acrylonitrile-Butadiene Seat, Class AWWA C-504, Ductile Iron Disc, 304 Stainless Steel Pin, Butterfly Valve (DeZurik BAW,72,F1,DI,NBRN-NBR,150B,DI-S2*MG-WR8L-HD36 Modified).....	191,789.67	13,226.27
33 14 19 00-0045 LF 3/16" Link, 316 Stainless Steel Chain For Use With Dezurik Chainwheel.....	17.63	
33 14 19 00-0046 EA 316 Stainless Steel Closing Link For Use With Dezurik Chainwheel.....	9.33	
Note: One required per valve.		
<b>33 14 19 00-0047</b>	<b>Check Valves</b> (33 14 19 00-0001)	
<b>33 14 19 00-0048</b>	<b>Flanged, Swing Type Gravity Operated Check Valves</b> (33 14 19 00-0047)	
Note: AWWA C508. Bronze disc facing. Mueller A-2600-6.		
33 14 19 00-0049 EA 2-1/2" Flanged, Swing Type Gravity Operated Check Valve.....	1,089.93	204.42
33 14 19 00-0050 EA 3" Flanged, Swing Type Gravity Operated Check Valve.....	1,133.56	239.67
33 14 19 00-0051 EA 4" Flanged, Swing Type Gravity Operated Check Valve.....	1,630.33	303.11
33 14 19 00-0052 EA 4" x 6" Flanged, Swing Type Gravity Operated Check Valve.....	2,180.06	456.08
33 14 19 00-0053 EA 4" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	2,279.46	509.35
33 14 19 00-0054 EA 6" Flanged, Swing Type Gravity Operated Check Valve.....	2,183.27	507.53
33 14 19 00-0055 EA 6" x 8" Flanged, Swing Type Gravity Operated Check Valve.....	2,815.66	576.92
33 14 19 00-0056 EA 6" x 10" Flanged, Swing Type Gravity Operated Check Valve.....	2,956.43	648.52
33 14 19 00-0057 EA 8" Flanged, Swing Type Gravity Operated Check Valve.....	3,069.33	648.52
33 14 19 00-0058 EA 10" Flanged, Swing Type Gravity Operated Check Valve.....	5,048.62	789.49
33 14 19 00-0059 EA 12" Flanged, Swing Type Gravity Operated Check Valve.....	7,542.33	592.12
33 14 19 00-0060 EA 14" Flanged, Swing Type Gravity Operated Check Valve.....	10,411.88	1,135.21
33 14 19 00-0061 EA 16" Flanged, Swing Type Gravity Operated Check Valve.....	13,749.14	1,248.73
33 14 19 00-0062 EA 18" Flanged, Swing Type Gravity Operated Check Valve.....	19,783.32	1,384.96
33 14 19 00-0063 EA 20" Flanged, Swing Type Gravity Operated Check Valve.....	23,013.31	1,560.91
<b>33 14 19 00-0064</b>	<b>Combination Air Release Valves</b> (33 14 19 00-0001)	
33 14 19 00-0065 EA 1" Combination Air Release Valve.....	641.76	29.60
33 14 19 00-0066 EA 2" Combination Air Release Valve.....	1,037.29	50.75
<b>33 14 19 00-0067</b>	<b>Corporation Stop And Curb Valve</b> (33 14 19 00-0001)	
Note: AWWA C800		
<b>33 14 19 00-0068</b>	<b>Ball Corporation Valves</b> (33 14 19 00-0067)	
Note: Mueller B-25000.		
33 14 19 00-0069 EA 3/4" Ball Corporation Valve (Mueller B-25000).....	96.19	29.60
33 14 19 00-0070 EA 1" Ball Corporation Valve (Mueller B-25000).....	120.37	36.65
33 14 19 00-0071 EA 1-1/2" Ball Corporation Valve (Mueller B-25000).....	207.34	53.58
33 14 19 00-0072 EA 2" Ball Corporation Valve (Mueller B-25000).....	300.85	63.44
<b>33 14 19 00-0073</b>	<b>Gate Valve, AWWA C500 And C509</b> (33 14 19 00-0001)	
<b>33 14 19 00-0074</b>	<b>Gate Valve, Flanged</b> (33 14 19 00-0073)	
Note: Mueller A-2380-6.		
33 14 19 00-0075 EA 2" Gate Valve, Flanged.....	705.28	187.93
33 14 19 00-0076 EA 2-1/2" Gate Valve, Flanged.....	817.90	204.42
33 14 19 00-0077 EA 3" Gate Valve, Flanged.....	966.39	239.67
33 14 19 00-0078 EA 4" Gate Valve, Flanged.....	1,345.30	300.28
33 14 19 00-0079 EA 6" Gate Valve, Flanged.....	1,632.23	507.53
33 14 19 00-0080 EA 8" Gate Valve, Flanged.....	2,361.32	648.52
33 14 19 00-0081 EA 10" Gate Valve, Flanged.....	3,459.05	789.49
33 14 19 00-0082 EA 12" Gate Valve, Flanged.....	4,169.06	592.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0083 EA 14" Gate Valve, Flanged.....	8,547.52	1,135.21
33 14 19 00-0084 EA 16" Gate Valve, Flanged.....	11,086.70	1,248.73
33 14 19 00-0085 EA 18" Gate Valve, Flanged.....	17,323.26	1,384.96
33 14 19 00-0086 EA 20" Gate Valve, Flanged.....	20,677.53	1,560.91
<b>33 14 19 00-0087 Resilient Wedge Gate Valve, Flanged</b> (33 14 19 00-0073)		
Note: Mueller A-2360-6.		
33 14 19 00-0088 EA 2" Resilient Wedge Gate Valve, Flanged.....	678.67	187.93
33 14 19 00-0089 EA 2-1/2" Resilient Wedge Gate Valve, Flanged.....	786.12	204.42
33 14 19 00-0090 EA 3" Resilient Wedge Gate Valve, Flanged.....	928.67	239.67
33 14 19 00-0091 EA 4" Resilient Wedge Gate Valve, Flanged.....	1,303.14	300.28
33 14 19 00-0092 EA 6" Resilient Wedge Gate Valve, Flanged.....	1,575.86	507.53
33 14 19 00-0093 EA 8" Resilient Wedge Gate Valve, Flanged.....	2,273.27	648.52
33 14 19 00-0094 EA 10" Resilient Wedge Gate Valve, Flanged.....	3,319.13	789.49
33 14 19 00-0095 EA 12" Resilient Wedge Gate Valve, Flanged.....	4,000.12	592.12
<b>33 14 19 00-0096 Gate Valve, Mechanical Joint</b> (33 14 19 00-0073)		
Note: Mueller A-2380-20.		
33 14 19 00-0097 EA 2" Gate Valve, Mechanical Joint.....	836.85	150.14
33 14 19 00-0098 EA 2-1/2" Gate Valve, Mechanical Joint.....	927.17	188.21
33 14 19 00-0099 EA 3" Gate Valve, Mechanical Joint.....	1,157.89	227.68
33 14 19 00-0100 EA 4" Gate Valve, Mechanical Joint.....	1,404.17	300.28
33 14 19 00-0101 EA 6" Gate Valve, Mechanical Joint.....	1,745.12	352.45
33 14 19 00-0102 EA 8" Gate Valve, Mechanical Joint.....	2,464.15	422.94
33 14 19 00-0103 EA 10" Gate Valve, Mechanical Joint.....	3,501.75	493.44
33 14 19 00-0104 EA 12" Gate Valve, Mechanical Joint.....	4,362.95	592.12
33 14 19 00-0105 EA 14" Gate Valve, Mechanical Joint.....	9,047.97	695.32
33 14 19 00-0106 EA 16" Gate Valve, Mechanical Joint.....	11,628.46	780.46
33 14 19 00-0107 EA 18" Gate Valve, Mechanical Joint.....	18,293.60	865.60
33 14 19 00-0108 EA 20" Gate Valve, Mechanical Joint.....	21,724.54	975.57
<b>33 14 19 00-0109 Resilient Wedge Gate Valve, Mechanical Joint</b> (33 14 19 00-0073)		
Note: Mueller A-2360-20.		
33 14 19 00-0110 EA 2" Resilient Wedge Gate Valve, Mechanical Joint.....	806.47	150.14
33 14 19 00-0111 EA 3" Resilient Wedge Gate Valve, Mechanical Joint.....	1,118.12	227.68
33 14 19 00-0112 EA 4" Resilient Wedge Gate Valve, Mechanical Joint.....	1,358.68	300.28
33 14 19 00-0113 EA 6" Resilient Wedge Gate Valve, Mechanical Joint.....	1,686.25	352.45
33 14 19 00-0114 EA 8" Resilient Wedge Gate Valve, Mechanical Joint.....	2,372.56	422.94
33 14 19 00-0115 EA 10" Resilient Wedge Gate Valve, Mechanical Joint.....	3,359.40	493.44
33 14 19 00-0116 EA 12" Resilient Wedge Gate Valve, Mechanical Joint.....	4,183.00	592.12
<b>33 14 19 00-0117 Resilient Wedge Gate Valve, Mechanical Joint X Flange Joint</b> (33 14 19 00-0073)		
Note: Mueller A-2361.		
33 14 19 00-0118 EA 14" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	8,340.85	1,135.21
33 14 19 00-0119 EA 16" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	9,070.65	1,248.73
33 14 19 00-0120 EA 18" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	14,021.31	1,384.96
33 14 19 00-0121 EA 20" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	16,715.25	1,560.91
33 14 19 00-0122 EA 24" Resilient Wedge Gate Valve, Mechanical Joint X Flanged Joint.....	23,676.18	1,915.67
<b>33 14 19 00-0123 Gate Valve, Threaded, WW-V-51 Class A, Type 1</b> (33 14 19 00-0073)		
Note: NIBCO T-113.		
33 14 19 00-0124 EA 1/4" Gate Valve, Bronze, Threaded.....	70.27	24.66
33 14 19 00-0125 EA 3/8" Gate Valve, Bronze, Threaded.....	72.61	24.66
33 14 19 00-0126 EA 1/2" Gate Valve, Bronze, Threaded.....	72.65	24.66
33 14 19 00-0127 EA 3/4" Gate Valve, Bronze, Threaded.....	94.28	33.30
33 14 19 00-0128 EA 1" Gate Valve, Bronze, Threaded.....	115.89	40.27
33 14 19 00-0129 EA 1-1/4" Gate Valve, Bronze, Threaded.....	155.68	50.99
33 14 19 00-0130 EA 1-1/2" Gate Valve, Bronze, Threaded.....	180.48	58.96
33 14 19 00-0131 EA 2" Gate Valve, Bronze, Threaded.....	218.07	68.91
33 14 19 00-0132 EA 2-1/2" Gate Valve, Bronze, Threaded.....	400.30	94.03
33 14 19 00-0133 EA 3" Gate Valve, Bronze, Threaded.....	477.75	107.85
<b>33 14 19 00-0134 Globe Valve, AWWA</b> (33 14 19 00-0001)		
<b>33 14 19 00-0135 Globe Valve, Threaded, WW-V-51 Class B, Type 1</b> (33 14 19 00-0134)		
Note: NIBCO T-235.		
33 14 19 00-0136 EA 1/8" Globe Valve, Threaded.....	96.02	24.66
33 14 19 00-0137 EA 1/4" Globe Valve, Threaded.....	91.30	24.66
33 14 19 00-0138 EA 3/8" Globe Valve, Threaded.....	93.64	24.66
33 14 19 00-0139 EA 1/2" Globe Valve, Threaded.....	96.02	24.66
33 14 19 00-0140 EA 3/4" Globe Valve, Threaded.....	130.32	33.30
33 14 19 00-0141 EA 1" Globe Valve, Threaded.....	179.64	40.27
33 14 19 00-0142 EA 1-1/4" Globe Valve, Threaded.....	258.71	50.99
33 14 19 00-0143 EA 1-1/2" Globe Valve, Threaded.....	307.84	58.96
33 14 19 00-0144 EA 2" Globe Valve, Threaded.....	422.93	68.91
33 14 19 00-0145 EA 2-1/2" Globe Valve, Threaded.....	760.20	94.03

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0146 EA 3" Globe Valve, Threaded.....	1,030.75	108.41
<b>33 14 19 00-0147 Tapping Valve, AWWA C500 And C509</b> (33 14 19 00-0001)		
<b>33 14 19 00-0148 Tapping Valve, AWWA C500 And C509</b> (33 14 19 00-0147)		
Note: Flanged inlet X mechanical joint, Mueller H-667.		
33 14 19 00-0149 EA 2" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....	958.84	187.93
33 14 19 00-0150 EA 3" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....	1,234.32	239.67
33 14 19 00-0151 EA 4" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....	1,604.10	300.28
33 14 19 00-0152 EA 6" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....	2,027.71	507.53
33 14 19 00-0153 EA 8" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint .....	2,868.52	648.52
33 14 19 00-0154 EA 10" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	4,075.42	789.49
33 14 19 00-0155 EA 12" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	5,904.64	592.12
33 14 19 00-0156 EA 14" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	10,332.74	1,135.21
33 14 19 00-0157 EA 16" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	12,977.10	1,248.73
33 14 19 00-0158 EA 18" Resilient Wedge Tapping Gate Valve, Mechanical Joint X Flanged Joint.....	20,675.25	1,384.96
<b>33 14 19 00-0159 Accessories For Valves</b> (33 14 19)		
33 14 19 00-0160 EA 1" Valve Extension Stem.....	133.44	
For Each Additional LF, Add	9.35	
33 14 19 00-0161 EA Up to 80" Long Indicator Post Telescoping Barrel Assembly .....	1,704.99	140.98
Note: Excludes valve.		
33 14 19 00-0162 EA >80" To 114" Long Indicator Post Telescoping Barrel Assembly .....	1,931.90	155.08
Note: Excludes valve.		
33 14 19 00-0163 EA Adjust Water Valve Box To Grade .....	140.98	
<b>33 14 19 00-0164 Utility Box</b> (33 14 19)		
Note: Christy Concrete Products.		
<b>33 14 19 00-0165 B3 Utility Box, 9-3/8" x 15-1/2"</b> (33 14 19 00-0164)		
33 14 19 00-0166 EA 9-3/8" x 15-1/2" Precast Concrete Utility Box.....	135.65	69.59
33 14 19 00-0167 EA Cast Iron Lid For 9-3/8" x 15-1/2" Utility Box.....	124.95	7.74
33 14 19 00-0168 EA Reinforced Concrete Lid For 9-3/8" x 15-1/2" Utility Box.....	53.98	7.74
33 14 19 00-0169 EA Steel Checkered Plate Cover For 9-3/8" x 15-1/2" Utility Box.....	269.26	7.74
33 14 19 00-0170 EA 12-1/8" x 18-5/8" Reinforced Concrete Slab For 9-3/8" x 15-1/2" Utility Box .....	78.49	15.46
33 14 19 00-0171 EA 3" High Reinforced Concrete Base For 9-3/8" x 15-1/2" Utility Box .....	109.85	15.46
<b>33 14 19 00-0172 B9 Utility Box, 10-1/4" x 17-1/4"</b> (33 14 19 00-0164)		
33 14 19 00-0173 EA 10-1/4" x 17-1/4" Precast Concrete Utility Box.....	166.38	92.79
33 14 19 00-0174 EA Cast Iron Lid For 10-1/4" x 17-1/4" Utility Box.....	146.48	9.28
33 14 19 00-0175 EA Reinforced Concrete Lid For 10-1/4" x 17-1/4" Utility Box .....	60.22	9.28
33 14 19 00-0176 EA Steel Checkered Plate Cover For 10-1/4" x 17-1/4" Utility Box.....	282.31	7.74
33 14 19 00-0177 EA 13" x 19-3/4" Reinforced Concrete Slab For 10-1/4" x 17-1/4" Utility Box.....	87.11	15.46
33 14 19 00-0178 EA 5-3/4" High Reinforced Concrete Base For 10-1/4" x 17-1/4" Utility Box .....	117.76	23.20
33 14 19 00-0179 EA 12" High Reinforced Concrete Extension For 10-1/4" x 17-1/4" Utility Box .....	146.09	42.53
<b>33 14 19 00-0180 B12 Utility Box, 12" x 20"</b> (33 14 19 00-0164)		
33 14 19 00-0181 EA 12" x 20" Precast Concrete Utility Box.....	182.59	100.53
33 14 19 00-0182 EA Cast Iron Lid For 12" x 20" Utility Box.....	261.52	11.60
33 14 19 00-0183 EA Reinforced Concrete Lid For 12" x 20" Utility Box.....	82.08	15.46
33 14 19 00-0184 EA Steel Checkered Plate Cover For 12" x 20" Utility Box .....	381.93	15.46
33 14 19 00-0185 EA 12" High Reinforced Concrete Extension For 12" x 20" Utility Box .....	189.91	54.13
<b>33 14 19 00-0186 B16 Utility Box, 12" x 22-1/4"</b> (33 14 19 00-0164)		
33 14 19 00-0187 EA 12" x 22-1/4" Precast Concrete Utility Box.....	210.58	117.54
33 14 19 00-0188 EA Cast Iron Lid For 12" x 22-1/4" Utility Box.....	296.53	15.46
33 14 19 00-0189 EA Reinforced Concrete Lid For 12" x 22-1/4" Utility Box.....	99.87	15.46
33 14 19 00-0190 EA Steel Checkered Plate Cover For 12" x 22-1/4" Utility Box .....	384.04	15.46
33 14 19 00-0191 EA 16" x 27" Reinforced Concrete Slab For 12" x 22-1/4" Utility Box .....	142.21	26.30
33 14 19 00-0192 EA 12" High Reinforced Concrete Extension For 12" x 22-1/4" Utility Box .....	192.86	54.13
<b>33 14 19 00-0193 B30 Utility Box, 13-1/4" x 24"</b> (33 14 19 00-0164)		
33 14 19 00-0194 EA 13-1/4" x 24" Precast Concrete Utility Box (Christy B30BOX) .....	253.14	139.18
33 14 19 00-0195 EA Reinforced Concrete Lid For 13-1/4" x 24" Utility Box (Christy B30D) .....	136.21	24.75
33 14 19 00-0196 EA Steel Checkered Plate Cover For 13-1/4" x 24" Utility Box (Christy B30-61G) .....	475.20	20.11
33 14 19 00-0197 EA 16" x 27" Reinforced Concrete Slab For 13-1/4" x 24" Utility Box (Christy B30SL).....	142.21	26.30
33 14 19 00-0198 EA 5-1/2" High Reinforced Concrete Base For 13-1/4" x 24" Utility Box (Christy B30BA) .....	219.17	43.31
33 14 19 00-0199 EA 6" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X6) .....	169.25	29.38
33 14 19 00-0200 EA 12" High Reinforced Concrete Extension For 13-1/4" x 24" Utility Box (Christy B30X12).....	249.66	69.59
<b>33 14 19 00-0201 B36 Utility Box, 17-1/4" x 30"</b> (33 14 19 00-0164)		
33 14 19 00-0202 EA 17-1/4" x 30" Precast Concrete Utility Box (Christy B36BOX) .....	329.61	176.30
33 14 19 00-0203 EA Reinforced Concrete Lid For 17-1/4" x 30" Utility Box (Christy B36D) .....	222.89	42.53



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 14 19 00-0204 EA Steel Checkered Plate Cover For 17-1/4" x 30" Utility Box (Christy B36-61D).....	597.50	29.38
33 14 19 00-0205 EA 20" x 34" Reinforced Concrete Slab For 17-1/4" x 30" Utility Box (Christy B36SL).....	208.36	55.68
33 14 19 00-0206 EA 6" High Reinforced Concrete Base For 17-1/4" x 30" Utility Box (Christy B36BA).....	338.58	61.87
33 14 19 00-0207 EA 12" High Reinforced Concrete Extension For 17-1/4" x 30" Utility Box (Christy B36X12).....	331.95	89.70
<b>33 14 19 00-0208 B40 Utility Box, 24-1/2" x 36"</b> (33 14 19 00-0164)		
33 14 19 00-0209 EA 24-1/2" x 36" Precast Concrete Utility Box.....	661.93	272.19
33 14 19 00-0210 EA Reinforced Concrete Lid For 24-1/2" x 36" Utility Box.....	603.75	102.07
33 14 19 00-0211 EA Steel Checkered Plate Cover For 24-1/2" x 36" Utility Box.....	850.03	44.85
33 14 19 00-0212 EA 30" x 40" Reinforced Concrete Slab For 24-1/2" x 36" Utility Box.....	499.04	95.89
33 14 19 00-0213 EA 10" High Reinforced Concrete Extension For 24-1/2" x 36" Utility Box.....	528.93	100.53
<b>33 14 19 00-0214 B48 Utility Box, 30-1/4" x 48-1/4"</b> (33 14 19 00-0164)		
33 14 19 00-0215 EA 30-1/4" x 48-1/4" Precast Concrete Utility Box.....	851.04	309.31
33 14 19 00-0216 EA 1 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	844.29	168.57
33 14 19 00-0217 EA 2 Piece Reinforced Concrete Lid For 30-1/4" x 48-1/4" Utility Box.....	1,045.50	168.57
33 14 19 00-0218 EA 2 Piece Steel Checkered Plate Cover For 30-1/4" x 48-1/4" Utility Box.....	1,348.47	77.33
33 14 19 00-0219 EA 36" x 53" Reinforced Concrete Slab For 30-1/4" x 48-1/4" Utility Box.....	755.28	208.79
33 14 19 00-0220 EA 10" High Reinforced Concrete Extension For 30-1/4" x 48-1/4" Utility Box.....	660.88	140.73
<b>33 14 19 00-0221 Fire Hydrants</b> (33 14 19)		
Note: Breakaway type.		
<b>33 14 19 00-0222 Three Way, Standard (Traditional) Model Fire Hydrant</b> (33 14 19 00-0221)		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0223 EA 1-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,630.67	349.76
33 14 19 00-0224 EA 2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,697.18	349.76
33 14 19 00-0225 EA 2-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,763.86	349.76
33 14 19 00-0226 EA 3" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,855.20	374.74
33 14 19 00-0227 EA 3-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,921.78	374.74
33 14 19 00-0228 EA 4" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,019.66	405.98
33 14 19 00-0229 EA 4-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,086.13	405.98
33 14 19 00-0230 EA 5" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,184.02	437.21
33 14 19 00-0231 EA 5-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,250.59	437.21
33 14 19 00-0232 EA 6" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,348.28	468.43
33 14 19 00-0233 EA 6-1/2" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,446.06	499.66
33 14 19 00-0234 EA 7" Burial Section, 4-1/2" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,574.97	562.12
33 14 19 00-0235 EA 1-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,691.37	349.76
33 14 19 00-0236 EA 2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,777.68	349.76
33 14 19 00-0237 EA 2-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,863.78	349.76
33 14 19 00-0238 EA 3" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	3,974.86	374.74
33 14 19 00-0239 EA 3-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,060.96	374.74
33 14 19 00-0240 EA 4" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,178.62	405.98
33 14 19 00-0241 EA 4-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,264.61	405.98
33 14 19 00-0242 EA 5" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,382.03	437.21
33 14 19 00-0243 EA 5-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,468.11	437.21
33 14 19 00-0244 EA 6" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,585.28	468.43
33 14 19 00-0245 EA 6-1/2" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,702.82	499.66
33 14 19 00-0246 EA 7" Burial Section, 5-1/4" Valve, Three Way, Standard Type (Traditional) Fire Hydrant.....	4,851.23	562.12
<b>33 14 19 00-0247 Two Way, Standard (Traditional) Model Fire Hydrant</b> (33 14 19 00-0221)		
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0248 EA 1-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,265.59	349.76
33 14 19 00-0249 EA 2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,331.87	349.76
33 14 19 00-0250 EA 2-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,398.53	349.76
33 14 19 00-0251 EA 3" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,490.15	374.74
33 14 19 00-0252 EA 3-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,556.51	374.74
33 14 19 00-0253 EA 4" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,654.24	405.98
33 14 19 00-0254 EA 4-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,720.81	405.98
33 14 19 00-0255 EA 5" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,818.76	437.21
33 14 19 00-0256 EA 5-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,885.19	437.21
33 14 19 00-0257 EA 6" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,983.24	468.43
33 14 19 00-0258 EA 6-1/2" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,080.60	499.66
33 14 19 00-0259 EA 7" Burial Section, 4-1/2" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,209.65	562.12
33 14 19 00-0260 EA 1-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,359.35	349.76
33 14 19 00-0261 EA 2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,445.47	349.76
33 14 19 00-0262 EA 2-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,531.46	349.76
33 14 19 00-0263 EA 3" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,642.76	374.74
33 14 19 00-0264 EA 3-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,728.64	374.74
33 14 19 00-0265 EA 4" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,846.15	405.98
33 14 19 00-0266 EA 4-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	3,932.08	405.98
33 14 19 00-0267 EA 5" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,049.78	437.21
33 14 19 00-0268 EA 5-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,135.66	437.21
33 14 19 00-0269 EA 6" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,253.13	468.43
33 14 19 00-0270 EA 6-1/2" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,370.25	499.66
33 14 19 00-0271 EA 7" Burial Section, 5-1/4" Valve, Two Way, Standard Type (Traditional) Fire Hydrant.....	4,519.13	562.12

**33 Utilities****33 10 Water Utilities****33 14 Water Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 14 19 00-0272</b>	<b>Three Way, Modern Model Fire Hydrant (33 14 19 00-0221)</b>	
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0273 EA 1-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,785.89	349.76
33 14 19 00-0274 EA 2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,871.88	349.76
33 14 19 00-0275 EA 2-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	3,958.13	349.76
33 14 19 00-0276 EA 3' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,069.26	374.74
33 14 19 00-0277 EA 3-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,155.31	374.74
33 14 19 00-0278 EA 4' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,272.65	405.98
33 14 19 00-0279 EA 4-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,358.82	405.98
33 14 19 00-0280 EA 5' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,476.17	437.21
33 14 19 00-0281 EA 5-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,562.25	437.21
33 14 19 00-0282 EA 6' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,679.57	437.21
33 14 19 00-0283 EA 6-1/2' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,797.16	499.66
33 14 19 00-0284 EA 7' Burial Section, Three Way, Modern Type Fire Hydrant.....	4,944.67	499.66
<b>33 14 19 00-0285</b>	<b>Two Way, Modern Model Fire Hydrant (33 14 19 00-0221)</b>	
Note: Mechanical joint shoe. Includes shoe, lower barrel and upper barrel (hydrant).		
33 14 19 00-0286 EA 1-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,707.63	349.76
33 14 19 00-0287 EA 2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,773.07	349.76
33 14 19 00-0288 EA 2-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,839.24	349.76
33 14 19 00-0289 EA 3' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,928.89	374.74
33 14 19 00-0290 EA 3-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	2,994.31	374.74
33 14 19 00-0291 EA 4' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,090.97	405.98
33 14 19 00-0292 EA 4-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,156.37	405.98
33 14 19 00-0293 EA 5' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,253.10	437.21
33 14 19 00-0294 EA 5-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,318.33	437.21
33 14 19 00-0295 EA 6' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,414.99	468.43
33 14 19 00-0296 EA 6-1/2' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,511.73	499.66
33 14 19 00-0297 EA 7' Burial Section, Two Way, Modern Type Fire Hydrant.....	3,638.80	562.12
<b>33 14 19 00-0298</b>	<b>Fire Hydrant Extension Kits (33 14 19 00-0221)</b>	
33 14 19 00-0299 EA 6" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	572.11	31.23
33 14 19 00-0300 EA 12" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	680.89	39.03
33 14 19 00-0301 EA 18" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	745.14	46.85
33 14 19 00-0302 EA 24" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	849.60	57.77
33 14 19 00-0303 EA 30" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,267.18	60.13
33 14 19 00-0304 EA 36" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,352.41	62.46
33 14 19 00-0305 EA 42" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,374.24	65.58
33 14 19 00-0306 EA 48" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,452.06	70.26
33 14 19 00-0307 EA 54" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,604.84	84.32
33 14 19 00-0308 EA 60" Long, 4-1/2" Diameter, Fire Hydrant Extension Kit.....	1,700.84	101.49
33 14 19 00-0309 EA 6" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	636.22	34.98
33 14 19 00-0310 EA 12" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	754.78	42.47
33 14 19 00-0311 EA 18" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	867.32	51.22
33 14 19 00-0312 EA 24" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	973.14	63.71
33 14 19 00-0313 EA 30" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,320.25	66.21
33 14 19 00-0314 EA 36" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,406.64	68.70
33 14 19 00-0315 EA 42" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,467.11	72.45
33 14 19 00-0316 EA 48" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,712.01	77.45
33 14 19 00-0317 EA 54" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,880.83	92.43
33 14 19 00-0318 EA 60" Long, 5-1/4" Diameter, Fire Hydrant Extension Kit.....	1,984.61	111.17
<b>33 14 19 00-0319</b>	<b>Removal And Reinstallation Of Standard Fire Hydrant (33 14 19 00-0221)</b>	
Note: Includes all necessary fittings for resetting, storage and cleaning. Excludes excavation, backfill and thrust blocking around fire hydrant.		
33 14 19 00-0320 EA Up To 5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	999.31	
33 14 19 00-0321 EA >5' Burial Section, Removal And Reinstallation Of Fire Hydrant.....	1,457.34	
33 14 19 00-0322 EA Reset Fire Hydrant Upper Barrel.....	1,275.67	
Note: Includes Safety Repair Kit		
<b>33 14 19 00-0323</b>	<b>Yard Hydrants (33 14 19)</b>	
Note: With 3/4" hose thread outlet.		
33 14 19 00-0324 EA 2' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	403.79	45.94
33 14 19 00-0325 EA 4' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	431.32	45.94
33 14 19 00-0326 EA 6' Bury Depth Yard Hydrant, 3/4" Galvanized Column And 3/4" Threaded Hose Outlet.....	458.84	45.94
33 14 19 00-0327 EA 2' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	363.27	58.19
33 14 19 00-0328 EA 4' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	377.92	58.19
33 14 19 00-0329 EA 6' Bury Depth Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	392.57	58.19
<b>33 14 19 00-0330</b>	<b>Sanitary Yard Hydrants (33 14 19)</b>	
Note: With 3/4" hose thread outlet.		
33 14 19 00-0331 EA 2' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,719.22	95.71
33 14 19 00-0332 EA 4' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,805.24	95.71
33 14 19 00-0333 EA 6' Bury Depth Sanitary Yard Hydrant, 1" Galvanized Column And 3/4" Threaded Hose Outlet.....	1,891.25	95.71



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Water Utilities</b>	<b>33 10</b>	
<b>Water Utility Transmission and Distribution</b>	<b>33 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 14 19 00-0334</b> Flushing Hydrants <small>(33 14 19)</small>		
33 14 19 00-0335 EA 2" Inlet x 2-1/2" Outlet Steel Flushing Hydrant, 3' Bury Depth .....	903.83	58.77
<b>33 14 23</b> Enclosures for Water Utility Piping and Valves <small>(33 14)</small>		
Note: Excludes excavation and backfill. See CSI section 22 11 19 00-0385 for Enclosures.		
<b>33 14 23 00-0001</b> Roadway Or Curb Valve Boxes <small>(33 14 23)</small>		
See CSI section 22 05 19 00-0000 for metering.		
<b>33 14 23 00-0002</b> Round Head, Cast Iron Service, Roadway Or Valve Boxes <small>(33 14 23 00-0001)</small>		
33 14 23 00-0003 EA 36" To 48" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	281.84	18.61
Note: Includes cover, top section and bottom section.		
33 14 23 00-0004 EA 36" To 54" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	326.82	18.61
Note: Includes cover, top section and bottom section.		
33 14 23 00-0005 EA 42" To 60" High, Two Piece, Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	328.90	18.61
Note: Includes cover, top section and bottom section.		
33 14 23 00-0006 EA 9" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	85.47	9.30
33 14 23 00-0007 EA 16" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	97.38	9.30
33 14 23 00-0008 EA 24" Extension For Screw Type, 2-1/2" Shaft, Round Head, Cast Iron Service Box.....	115.30	9.30
33 14 23 00-0009 EA 36" To 48" High, Screw Type, 4-1/4" Shaft, Round Head, Cast Iron Roadway Box .....	424.03	23.26
Note: Includes cover, top section and bottom section.		
33 14 23 00-0010 EA 45" To 54" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....	732.87	32.57
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0011 EA 45" To 66" High, Three Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box .....	816.78	32.57
Note: Includes cover, top section, bottom section and #6 round base.		
33 14 23 00-0012 EA 24" To 36" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	440.67	23.26
Note: Includes cover, top section and bottom section.		
33 14 23 00-0013 EA 36" To 48" High, Two Piece, Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	460.72	23.26
Note: Includes cover, top section and bottom section.		
33 14 23 00-0014 EA 24" To 36" High, Two Piece, Slip Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	445.41	23.26
Note: Includes cover, top section and bottom section.		
33 14 23 00-0015 EA 12" Extension For Screw Type, 5-1/4" Shaft, Round Head, Cast Iron Valve Box.....	161.61	9.30
33 14 23 00-0016 EA 18" To 24" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	273.90	38.28
33 14 23 00-0017 EA 22" To 28" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	283.00	39.82
33 14 23 00-0018 EA 30" To 36" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	314.94	41.34
33 14 23 00-0019 EA 36" To 48" High Round Head Cast Iron Roadway Or Curb Valve Box .....	430.30	43.65
33 14 23 00-0020 EA 48" To 60" High Round Head Cast Iron Roadway Or Curb Valve Boxes.....	518.12	45.94
33 14 23 00-0021 EA 18" Cast Iron Service Box Extension Section .....	120.95	
<b>33 14 23 00-0022</b> Plastic Roadway Grade Water Meter Box And Cover <small>(33 14 23 00-0001)</small>		
33 14 23 00-0023 EA 12" Wide x 16" Long x 16" Deep Plastic Meter Box And Cover .....	585.24	53.60
33 14 23 00-0024 EA 9-3/4" Wide x 19-1/4" Long x 16" Deep Oval Plastic Meter Box And Cover .....	442.69	38.28
33 14 23 00-0025 EA Cast Iron Lid For Plastic Meter Box .....	136.75	
<b>33 14 23 00-0026</b> Traffic Valve Box And Lid <small>(33 14 23 00-0001)</small>		
33 14 23 00-0027 EA 10-3/8" ID x 12" Traffic Valve Box And 11" OD Cast Iron Lid (Christy G-5).....	244.64	
33 14 23 00-0028 EA 14-1/2" ID x 12" Traffic Valve Box And 13-1/4" OD Cast Iron Lid (Christy G-12).....	747.48	
<b>33 16 Water Utility Storage Tanks</b> <small>(33 10)</small>		
<b>33 16 23</b> Ground-Level Steel Water Storage Tanks <small>(33 16)</small>		
See CSI section 23 13 23 16-0000 for aboveground steel storage tanks.		
<b>33 19 Water Utility Metering Equipment</b> <small>(33 10)</small>		
<b>33 19 13</b> Positive Displacement Water Meters <small>(33 19)</small>		
<b>33 19 13 23</b> Nutating Disc Water Meters <small>(33 19 13)</small>		
<b>33 19 13 23-0001</b> Bronze Disk Type Water Service Meters <small>(33 19 13 23)</small>		
33 19 13 23-0002 EA 5/8" Diameter, 0 To 20 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	336.53	79.63
33 19 13 23-0003 EA 3/4" Diameter, 0 To 30 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	421.85	94.94
33 19 13 23-0004 EA 1" Diameter, 0 To 50 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	562.61	108.72
33 19 13 23-0005 EA 1-1/2" Diameter, 0 To 100 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	1,084.46	162.32
33 19 13 23-0006 EA 2" Diameter, 0 To 160 GPM, Screwed, Disk Type, Bronze Water Supply Meter.....	1,467.76	211.32
<b>33 19 13 23-0007</b> Magnetic Driven, Positive Displacement Type Water Service Meters <small>(33 19 13 23)</small>		
33 19 13 23-0008 EA 5/8" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max. (Neptune T10 E-Coder/R900i).....	595.67	79.63
<i>For Owner Furnished Material, Deduct</i>		
	-515.07	
33 19 13 23-0009 EA 3/4" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	679.99	94.94
<i>For Owner Furnished Material, Deduct</i>		
	-584.28	
33 19 13 23-0010 EA 1" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	1,005.89	108.72
<i>For Owner Furnished Material, Deduct</i>		
	-896.51	
33 19 13 23-0011 EA 1-1/2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	1,697.90	162.32
<i>For Owner Furnished Material, Deduct</i>		
	-1,535.00	
33 19 13 23-0012 EA 2" Diameter Transmitting Water Supply Meter, Screwed, 150 PSI Max.(Neptune T10 E-Coder/R900i).....	2,104.24	211.32
<i>For Owner Furnished Material, Deduct</i>		
	-1,891.56	

**33 Utilities****33 10 Water Utilities****33 19 Water Utility Metering Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 19 13 23-0013 EA Electronic Transmitter.....	477.21	38.28
Note: For use with transmitting meter valve. For Owner Furnished Material, Deduct	-438.93	
<b>33 19 16 Velocity-Type Water Meters</b> (33 19)		
<b>33 19 16 23 Turbine Water Meters</b> (33 19 16)		
33 19 16 23-0001 Flanged Turbine Water Service Meter (33 19 16 23)		
33 19 16 23-0002 Vertical Turbine Meters (33 19 16 23-0001)		
33 19 16 23-0003 EA 1-1/2" Diameter, 0 - 100 GPM Vertical Turbine Meter, Flanged.....	792.00	148.03
33 19 16 23-0004 EA 2" Diameter, 0 - 160 GPM Vertical Turbine Meter, Flanged.....	1,099.50	187.93
33 19 16 23-0005 EA 3" Diameter, 0 - 350 GPM Vertical Turbine Meter, Flanged.....	2,129.44	239.67
33 19 16 23-0006 EA 4" Diameter, 0 - 650 GPM Vertical Turbine Meter, Flanged.....	3,197.75	375.01
33 19 16 23-0007 EA 6" Diameter, 0 - 1,300 GPM Vertical Turbine Meter, Flanged.....	5,795.51	507.53
33 19 16 23-0008 Horizontal Turbine Meters (33 19 16 23-0001)		
33 19 16 23-0009 EA 1-1/2" Diameter, 0 - 120 GPM Horizontal Turbine Meter, Flanged.....	1,196.34	148.03
33 19 16 23-0010 EA 2" Diameter, 0 - 160 GPM Horizontal Turbine Meter, Flanged.....	1,676.74	187.93
33 19 16 23-0011 EA 3" Diameter, 0 - 600 GPM Horizontal Turbine Meter, Flanged.....	2,360.87	239.67
33 19 16 23-0012 EA 4" Diameter, 0 - 1,000 GPM Horizontal Turbine Meter, Flanged.....	3,503.67	375.01
33 19 16 23-0013 EA 6" Diameter, 0 - 2,000 GPM Horizontal Turbine Meter, Flanged.....	6,910.09	507.53
33 19 16 23-0014 EA 8" Diameter, 0 - 3,500 GPM Horizontal Turbine Meter, Flanged.....	9,195.22	648.52
33 19 16 23-0015 EA 10" Diameter, 0 - 5,500 GPM Horizontal Turbine Meter, Flanged.....	12,704.57	789.49
33 19 16 23-0016 EA 12" Diameter, 0 - 6,600 GPM Horizontal Turbine Meter, Flanged.....	15,685.73	1,244.86
<b>33 19 19 Compound Water Meters</b> (33 19)		
33 19 19 00-0001 Flanged Compound Type Water Service Meter (33 19 19)		
33 19 19 00-0002 EA 2" Diameter, 0 To 160 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	3,062.66	187.93
33 19 19 00-0003 EA 3" Diameter, 0 To 320 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	3,879.78	239.67
33 19 19 00-0004 EA 4" Diameter, 0 To 500 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	6,387.21	375.01
33 19 19 00-0005 EA 6" Diameter, 0 To 1,000 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	8,915.81	507.53
33 19 19 00-0006 EA 8" Diameter, 0 To 1,600 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	17,837.88	648.52
33 19 19 00-0007 EA 10" Diameter, 0 To 2,500 GPM, Flanged And Bronze, Compound Type Water Service Meter.....	30,170.79	789.49
<b>33 19 23 Magnetic Water Meters</b> (33 19)		
33 19 23 00-0001 Flanged Electromagnetic Flow (EMF) Water Meter (33 19 23)		
33 19 23 00-0002 EA 2" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	8,728.01	187.93
33 19 23 00-0003 EA 3" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	12,363.32	239.67
33 19 23 00-0004 EA 4" Diameter, Flanged, Stainless Steel, Electromagnetic Flow (EMF) Water Meter (Sensus Accu-MAG).....	14,246.63	375.01
<b>33 19 26 Ultrasonic Water Meters</b> (33 19)		
33 19 26 00-0001 Ultrasonic Water Service Meters (Mastermeter Octive) (33 19 26)		
33 19 26 00-0002 EA 3" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	4,514.93	239.67
33 19 26 00-0003 EA 4" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	5,256.73	375.01
33 19 26 00-0004 EA 6" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	7,712.92	507.53
33 19 26 00-0005 EA 8" Diameter, Ductile Iron Body, Flanged, Ultrasonic Water Meter (Mastermeter Octive).....	11,061.39	648.52
<b>33 30 Sanitary Sewerage Utilities</b> (33)		
<b>33 31 Sanitary Sewerage Piping</b> (33 30)		
<b>33 31 11 Public Sanitary Sewerage Gravity Piping</b> (33 31)		
Note: Piping includes hydrostatic testing, disinfecting and warning tape. Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
33 31 11 00-0001 Plastic Sewer And Drain Piping (33 31 11)		
33 31 11 00-0002 Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001)		
33 31 11 00-0003 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	10.55	4.02
33 31 11 00-0004 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	12.90	4.74
33 31 11 00-0005 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	18.49	5.75
33 31 11 00-0006 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	23.49	6.71
33 31 11 00-0007 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	33.18	7.80
33 31 11 00-0008 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	45.53	9.08
33 31 11 00-0009 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	64.49	9.40
33 31 11 00-0010 LF 12" Schedule 40 Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	86.67	9.72
33 31 11 00-0011 Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe (33 31 11 00-0001)		
Note: D-2729 PVC pipe.		
33 31 11 00-0012 LF 3" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	14.15	5.75
33 31 11 00-0013 LF 4" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	16.73	6.71





<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Sanitary Sewerage Utilities</b>	<b>33 30</b>	
<b>Sanitary Sewerage Piping</b>	<b>33 31</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0014 LF 6" Belled End Polyvinyl Chloride (PVC) Sewer And Drain Pipe.....	22.12	7.80
<b>33 31 11 00-0015 Polyvinyl Chloride (PVC) Sewer And Drain Fittings (33 31 11 00-0001)</b>		
<b>33 31 11 00-0016 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0017 EA 1-1/2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	30.54	16.23
33 31 11 00-0018 EA 2" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	39.28	20.98
33 31 11 00-0019 EA 3" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	66.79	28.18
33 31 11 00-0020 EA 4" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	100.68	32.57
33 31 11 00-0021 EA 6" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	379.23	42.33
33 31 11 00-0022 EA 8" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	626.14	56.97
33 31 11 00-0023 EA 10" 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	826.78	75.88
<b>33 31 11 00-0024 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0025 EA 1-1/2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	31.97	16.23
33 31 11 00-0026 EA 2" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	39.16	20.98
33 31 11 00-0027 EA 3" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	64.64	28.18
33 31 11 00-0028 EA 4" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	90.18	32.57
33 31 11 00-0029 EA 6" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	352.52	42.33
33 31 11 00-0030 EA 8" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	564.04	56.97
33 31 11 00-0031 EA 10" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	644.13	75.88
33 31 11 00-0032 EA 12" 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	954.47	101.05
<b>33 31 11 00-0033 Long Sweep 1/4 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0034 EA 1-1/2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	47.95	15.98
33 31 11 00-0035 EA 2" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	49.30	20.98
33 31 11 00-0036 EA 3" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	92.55	28.18
33 31 11 00-0037 EA 4" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	147.91	32.57
33 31 11 00-0038 EA 6" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	288.01	42.33
33 31 11 00-0039 EA 8" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	506.25	56.97
33 31 11 00-0040 EA 10" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	824.63	75.88
33 31 11 00-0041 EA 12" Long Sweep 1/4 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	1,246.58	101.05
<b>33 31 11 00-0042 1/16 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0043 EA 1-1/2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	35.03	16.23
33 31 11 00-0044 EA 2" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	42.27	20.98
33 31 11 00-0045 EA 3" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	73.55	28.18
33 31 11 00-0046 EA 4" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	106.74	32.57
33 31 11 00-0047 EA 6" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	468.10	42.33
33 31 11 00-0048 EA 8" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	755.51	56.97
33 31 11 00-0049 EA 10" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	856.24	75.88
33 31 11 00-0050 EA 12" 1/16 Bend, Polyvinyl Chloride (PVC) Sewer And Drain.....	883.77	101.05
<b>33 31 11 00-0051 Reducers, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0052 EA 2" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	40.22	18.51
33 31 11 00-0053 EA 3" x 1-1/2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	72.79	22.10
33 31 11 00-0054 EA 3" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	69.74	24.37
33 31 11 00-0055 EA 4" x 2" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	105.60	26.64
33 31 11 00-0056 EA 4" x 3" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	113.96	30.23
33 31 11 00-0057 EA 6" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	334.42	37.41
33 31 11 00-0058 EA 8" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	702.63	49.60
33 31 11 00-0059 EA 10" x 4" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	232.72	54.17
33 31 11 00-0060 EA 10" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	324.86	59.08
33 31 11 00-0061 EA 10" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	302.24	66.35
33 31 11 00-0062 EA 12" x 6" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	735.97	71.72
33 31 11 00-0063 EA 12" x 8" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	778.25	78.99
33 31 11 00-0064 EA 12" x 10" Reducer, Polyvinyl Chloride (PVC) Sewer And Drain.....	825.47	88.46
<b>33 31 11 00-0065 Sanitary Tees, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0066 EA 1-1/2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	47.83	24.52
33 31 11 00-0067 EA 2" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	63.35	31.72
33 31 11 00-0068 EA 3" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	105.03	41.84
33 31 11 00-0069 EA 4" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	158.39	51.97
33 31 11 00-0070 EA 6" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	553.64	56.97
33 31 11 00-0071 EA 8" Sanitary Tee, Polyvinyl Chloride (PVC) Sewer And Drain.....	719.18	75.88
<b>33 31 11 00-0072 Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0073 EA 1-1/2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	58.92	24.52
33 31 11 00-0074 EA 2" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	69.79	31.72
33 31 11 00-0075 EA 3" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	113.27	41.84
33 31 11 00-0076 EA 4" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	171.87	51.97
33 31 11 00-0077 EA 6" Wye, Polyvinyl Chloride (PVC) Sewer And Drain.....	503.07	56.97

**33 Utilities****33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0078 EA 8" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	623.12	75.88
33 31 11 00-0079 EA 10" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	820.06	101.26
33 31 11 00-0080 EA 12" Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	1,288.00	135.12
<b>33 31 11 00-0081 Reducing Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0082 EA 2" x 1-1/2" x 1-1/2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	76.34	24.52
33 31 11 00-0083 EA 2" x 2" x 1" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	86.73	31.72
33 31 11 00-0084 EA 3" x 3" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	101.82	41.84
33 31 11 00-0085 EA 4" x 4" x 2" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	153.38	51.97
33 31 11 00-0086 EA 4" x 4" x 3" Reducing Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	166.02	51.97
<b>33 31 11 00-0087 Double Wyes, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0088 EA 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	94.72	31.72
33 31 11 00-0089 EA 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	123.52	41.84
33 31 11 00-0090 EA 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	241.49	56.48
33 31 11 00-0091 EA 4" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	420.44	68.31
33 31 11 00-0092 EA 2" x 2" x 1-1/2" x 1-1/2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	118.28	41.84
33 31 11 00-0093 EA 3" x 3" x 2" x 2" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	201.42	56.48
33 31 11 00-0094 EA 4" x 4" x 3" x 3" Double Wye, Polyvinyl Chloride (PVC) Sewer And Drain .....	354.25	68.31
<b>33 31 11 00-0095 Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0096 EA 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	72.76	24.52
33 31 11 00-0097 EA 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	91.38	31.72
33 31 11 00-0098 EA 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	178.14	41.84
33 31 11 00-0099 EA 4" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	317.37	51.97
33 31 11 00-0100 EA 2" x 2" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	138.37	31.72
33 31 11 00-0101 EA 3" x 3" x 1-1/2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	220.70	41.84
33 31 11 00-0102 EA 3" x 3" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	161.50	41.84
33 31 11 00-0103 EA 4" x 4" x 2" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	297.41	51.97
33 31 11 00-0104 EA 4" x 4" x 3" Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	315.66	51.97
<b>33 31 11 00-0105 Double Combination Wye And 1/8 Bends, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0106 EA 1-1/2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	105.45	31.72
33 31 11 00-0107 EA 2" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	124.72	41.84
33 31 11 00-0108 EA 3" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	192.23	56.48
33 31 11 00-0109 EA 4" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	669.22	68.31
33 31 11 00-0110 EA 6" Double Combination Wye And 1/8 Bend, Polyvinyl Chloride (PVC) Sewer And Drain .....	2,170.98	75.63
<b>33 31 11 00-0111 Cleanout Tees With Plug, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0112 EA 4" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....	536.67	123.89
33 31 11 00-0113 EA 6" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....	1,259.05	159.84
33 31 11 00-0114 EA 8" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....	1,607.06	225.25
33 31 11 00-0115 EA 10" Polyvinyl Chloride (PVC) Cleanout Tees With Plug, Sewer And Drain .....	2,226.82	362.32
<b>33 31 11 00-0116 Couplings, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0117 EA 1-1/2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	29.81	16.23
33 31 11 00-0118 EA 2" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	37.31	20.86
33 31 11 00-0119 EA 3" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	57.51	27.94
33 31 11 00-0120 EA 4" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	74.35	32.57
33 31 11 00-0121 EA 6" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	204.54	42.33
33 31 11 00-0122 EA 8" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	492.67	56.97
33 31 11 00-0123 EA 10" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	744.98	75.88
33 31 11 00-0124 EA 12" Coupling, Polyvinyl Chloride (PVC) Sewer And Drain .....	1,226.85	101.05
<b>33 31 11 00-0125 Adapters, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0126 EA 4" Male, Plastic Pipe x Malleable Iron Pipe Adapter, Drain And Sewer Fitting .....	173.98	98.97
33 31 11 00-0127 EA 2" x 3" x 3" Downspout Adapter, Drain And Sewer Fitting .....	121.51	75.29
33 31 11 00-0128 EA 2" x 3" x 4" Downspout Adapter, Drain And Sewer Fitting .....	125.24	75.29
33 31 11 00-0129 EA 3" x 4" x 4" Downspout Adapter, Drain And Sewer Fitting .....	135.14	75.29
33 31 11 00-0130 EA 4" Hub, Cast Iron Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting .....	176.70	98.97
33 31 11 00-0131 EA 4" Spigot, Clay Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting .....	168.77	98.97
33 31 11 00-0132 EA 4" Spigot, Fiberglass Pipe x Plastic Pipe Adapter, Drain And Sewer Fitting .....	155.75	98.97
33 31 11 00-0133 EA 4" Drain Grate, Drain And Sewer Fitting .....	85.99	50.89
<b>33 31 11 00-0134 Caps, Polyvinyl Chloride (PVC) Sewer And Drain (33 31 11 00-0015)</b>		
33 31 11 00-0135 EA 3" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting .....	48.88	17.44
33 31 11 00-0136 EA 4" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting .....	84.04	21.72
33 31 11 00-0137 EA 6" Cap, Polyvinyl Chloride (PVC) Drain And Sewer Fitting .....	165.21	28.06



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 31 11 00-0138</b>				<b>Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain</b> (33 31 11 00-0015)		
				33 31 11 00-0139 EA 1-1/2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	28.87	16.23
				33 31 11 00-0140 EA 2" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	37.64	20.98
				33 31 11 00-0141 EA 3" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	57.05	28.18
				33 31 11 00-0142 EA 4" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	77.10	32.57
				33 31 11 00-0143 EA 6" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	138.24	42.33
				33 31 11 00-0144 EA 8" Plug Cleanout, Polyvinyl Chloride (PVC) Sewer And Drain.....	566.43	56.97
<b>33 31 11 00-0145</b>				<b>Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe</b> (33 31 11 00-0001)		
				Note: ASTM 3034.		
				33 31 11 00-0146 LF 4" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	16.38	6.71
				33 31 11 00-0147 LF 6" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	21.25	7.80
				33 31 11 00-0148 LF 8" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	27.73	9.08
				33 31 11 00-0149 LF 10" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	33.18	9.40
				33 31 11 00-0150 LF 12" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	39.71	9.72
				33 31 11 00-0151 LF 15" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	50.53	10.07
				33 31 11 00-0152 LF 18" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	62.89	10.43
				33 31 11 00-0153 LF 21" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	80.60	11.34
				33 31 11 00-0154 LF 24" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	97.02	12.23
				33 31 11 00-0155 LF 27" Gasketed SDR 35 Polyvinyl Chloride (PVC) Pipe.....	120.23	14.34
<b>33 31 11 00-0156</b>				<b>Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe</b> (33 31 11 00-0001)		
				Note: ASTM 3034.		
				33 31 11 00-0157 LF 4" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	19.61	6.71
				33 31 11 00-0158 LF 6" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	28.03	7.80
				33 31 11 00-0159 LF 8" Solvent Weld SDR 35 Polyvinyl Chloride (PVC) Pipe.....	39.85	9.08
<b>33 31 11 00-0160</b>				<b>Gasketed SDR 35 Polyvinyl Chloride (PVC) Fittings</b> (33 31 11 00-0001)		
				Note: ASTM 3034.		
<b>33 31 11 00-0161</b>				<b>1/4 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> (33 31 11 00-0160)		
				33 31 11 00-0161 EA 4" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	89.83	28.36
				33 31 11 00-0163 EA 6" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	133.23	32.98
				33 31 11 00-0164 EA 8" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	279.13	37.37
				33 31 11 00-0165 EA 10" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	801.38	43.97
				33 31 11 00-0166 EA 12" 1/4 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,035.57	56.06
<b>33 31 11 00-0167</b>				<b>1/8 Bends, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> (33 31 11 00-0160)		
				33 31 11 00-0168 EA 4" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	81.08	28.36
				33 31 11 00-0169 EA 6" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	123.58	32.98
				33 31 11 00-0170 EA 8" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	254.74	37.37
				33 31 11 00-0171 EA 10" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	571.80	43.97
				33 31 11 00-0172 EA 12" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	817.28	56.06
				33 31 11 00-0173 EA 15" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,752.74	79.15
				33 31 11 00-0174 EA 18" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,781.11	112.13
				33 31 11 00-0175 EA 21" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	4,640.90	148.40
				33 31 11 00-0176 EA 24" 1/8 Bend, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	6,328.02	197.88
<b>33 31 11 00-0177</b>				<b>Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> (33 31 11 00-0160)		
				33 31 11 00-0178 EA 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	135.97	42.55
				33 31 11 00-0179 EA 6" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	219.44	47.15
				33 31 11 00-0180 EA 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	246.68	49.46
				33 31 11 00-0181 EA 8" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	272.38	51.77
				33 31 11 00-0182 EA 8" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	312.06	54.08
				33 31 11 00-0183 EA 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	598.94	56.39
				33 31 11 00-0184 EA 10" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	767.51	57.71
				33 31 11 00-0185 EA 10" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	870.02	60.47
				33 31 11 00-0186 EA 10" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,285.41	62.77
				33 31 11 00-0187 EA 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,675.79	65.96
				33 31 11 00-0188 EA 12" x 4" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	944.39	70.25
				33 31 11 00-0189 EA 12" x 6" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,002.62	72.56
				33 31 11 00-0190 EA 12" x 8" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	1,431.43	74.87
				33 31 11 00-0191 EA 12" x 10" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,065.52	78.05
				33 31 11 00-0192 EA 12" Sanitary Tees, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	2,327.80	84.09
<b>33 31 11 00-0193</b>				<b>Wyes, Gasketed SDR 35 Polyvinyl Chloride (PVC)</b> (33 31 11 00-0160)		
				33 31 11 00-0194 EA 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	129.19	42.55
				33 31 11 00-0195 EA 6" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	196.82	47.15
				33 31 11 00-0196 EA 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	216.31	49.46
				33 31 11 00-0197 EA 8" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	262.68	51.77
				33 31 11 00-0198 EA 8" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	300.50	54.08
				33 31 11 00-0199 EA 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	460.74	56.39
				33 31 11 00-0200 EA 10" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC).....	701.89	58.16

**33 Utilities****33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0201 EA 10" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	715.95	60.47
33 31 11 00-0202 EA 10" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	1,077.97	62.77
33 31 11 00-0203 EA 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	1,192.90	65.96
33 31 11 00-0204 EA 12" x 4" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	889.63	70.25
33 31 11 00-0205 EA 12" x 6" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	917.57	72.56
33 31 11 00-0206 EA 12" x 8" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	1,314.85	74.87
33 31 11 00-0207 EA 12" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	1,584.69	78.05
33 31 11 00-0208 EA 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	1,654.54	84.09
33 31 11 00-0209 EA 15" x 10" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	2,039.11	101.14
33 31 11 00-0210 EA 15" x 12" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	2,262.43	107.18
33 31 11 00-0211 EA 15" Wye, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	2,829.05	118.72
<b>33 31 11 00-0212 Couplings, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>		
33 31 11 00-0213 EA 4" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	89.05	28.36
33 31 11 00-0214 EA 6" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	138.38	32.98
33 31 11 00-0215 EA 8" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	204.35	37.59
33 31 11 00-0216 EA 10" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	387.77	43.97
33 31 11 00-0217 EA 12" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	550.36	56.06
33 31 11 00-0218 EA 15" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	1,077.25	79.15
33 31 11 00-0219 EA 18" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	2,027.12	112.13
33 31 11 00-0220 EA 21" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	3,383.54	148.40
33 31 11 00-0221 EA 24" Coupling, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	4,898.55	197.88
<b>33 31 11 00-0222 Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>		
33 31 11 00-0223 EA 6" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	171.03	30.67
33 31 11 00-0224 EA 8" x 4" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	245.34	32.98
33 31 11 00-0225 EA 8" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	258.71	35.29
33 31 11 00-0226 EA 10" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	583.82	38.47
33 31 11 00-0227 EA 10" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	671.08	40.78
33 31 11 00-0228 EA 12" x 6" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	749.85	44.52
33 31 11 00-0229 EA 12" x 8" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	860.73	46.83
33 31 11 00-0230 EA 12" x 10" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	987.01	50.02
33 31 11 00-0231 EA 15" x 12" Increaser, Gasketed SDR 35 Polyvinyl Chloride (PVC) .....	1,486.21	67.61
<b>33 31 11 00-0232 Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>		
33 31 11 00-0233 EA 6" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	141.32	
33 31 11 00-0234 EA 8" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	186.78	
33 31 11 00-0235 EA 8" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	190.97	
33 31 11 00-0236 EA 10" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	316.55	
33 31 11 00-0237 EA 10" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	334.09	
33 31 11 00-0238 EA 10" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	635.76	
33 31 11 00-0239 EA 12" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	360.48	
33 31 11 00-0240 EA 12" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	393.35	
33 31 11 00-0241 EA 12" x 8" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	880.41	
33 31 11 00-0242 EA 12" x 10" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	1,038.69	
33 31 11 00-0243 EA 15" x 4" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	413.31	
33 31 11 00-0244 EA 15" x 6" Saddle Wye With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	442.00	
<b>33 31 11 00-0245 Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) (33 31 11 00-0160)</b>		
33 31 11 00-0246 EA 6" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	151.14	
33 31 11 00-0247 EA 8" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	186.78	
33 31 11 00-0248 EA 8" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	204.34	
33 31 11 00-0249 EA 10" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	290.54	
33 31 11 00-0250 EA 10" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	331.98	
33 31 11 00-0251 EA 10" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	504.83	
33 31 11 00-0252 EA 12" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	358.39	
33 31 11 00-0253 EA 12" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	391.37	
33 31 11 00-0254 EA 12" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	587.22	
33 31 11 00-0255 EA 12" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	715.05	
33 31 11 00-0256 EA 15" x 4" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	412.02	
33 31 11 00-0257 EA 15" x 6" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	432.28	
33 31 11 00-0258 EA 15" x 8" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	721.87	
33 31 11 00-0259 EA 15" x 10" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	799.01	
33 31 11 00-0260 EA 15" x 12" Saddle Tee With Stainless Steel Clamps, SDR 35 Polyvinyl Chloride (PVC) .....	1,130.54	
<b>33 31 11 00-0261 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe and Fittings (33 31 11 00-0001)</b>		
Note: ASTM F949.		
<b>33 31 11 00-0262 Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe (33 31 11 00-0261)</b>		
33 31 11 00-0263 LF 4" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe .....	17.74	6.71
33 31 11 00-0264 LF 6" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe .....	26.62	7.80
33 31 11 00-0265 LF 8" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe .....	34.66	9.08



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 31 11 00-0266	LF	10" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	42.56	9.40
33 31 11 00-0267	LF	12" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	45.29	9.72
33 31 11 00-0268	LF	15" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	54.80	10.07
33 31 11 00-0269	LF	18" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	72.55	10.43
33 31 11 00-0270	LF	21" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	85.60	11.34
33 31 11 00-0271	LF	24" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	106.78	12.23
33 31 11 00-0272	LF	30" Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC) Pipe.....	154.54	16.45
33 31 11 00-0273		<b>1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0261)</small>		
33 31 11 00-0274	EA	4" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	88.00	
33 31 11 00-0275	EA	6" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	121.49	
33 31 11 00-0276	EA	8" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	170.63	
33 31 11 00-0277	EA	10" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	296.30	
33 31 11 00-0278	EA	12" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	316.97	
33 31 11 00-0279	EA	15" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	534.78	
33 31 11 00-0280	EA	18" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	852.48	
33 31 11 00-0281	EA	21" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,223.37	
33 31 11 00-0282	EA	24" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,594.14	
33 31 11 00-0283	EA	30" 1/4 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	2,107.72	
33 31 11 00-0284		<b>1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0261)</small>		
33 31 11 00-0285	EA	4" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	81.50	
33 31 11 00-0286	EA	6" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	111.86	
33 31 11 00-0287	EA	8" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	156.61	
33 31 11 00-0288	EA	10" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	269.96	
33 31 11 00-0289	EA	12" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	289.38	
33 31 11 00-0290	EA	15" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	486.05	
33 31 11 00-0291	EA	18" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	773.03	
33 31 11 00-0292	EA	21" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,105.44	
33 31 11 00-0293	EA	24" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,437.92	
33 31 11 00-0294	EA	30" 1/8 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,899.27	
33 31 11 00-0295		<b>1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0261)</small>		
33 31 11 00-0296	EA	4" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	71.74	
33 31 11 00-0297	EA	6" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	91.53	
33 31 11 00-0298	EA	8" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	146.23	
33 31 11 00-0299	EA	10" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	185.50	
33 31 11 00-0300	EA	12" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	260.10	
33 31 11 00-0301	EA	15" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	434.26	
33 31 11 00-0302	EA	18" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	636.84	
33 31 11 00-0303	EA	21" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	984.77	
33 31 11 00-0304	EA	24" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,332.70	
33 31 11 00-0305	EA	30" 1/16 Bend, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,894.27	
33 31 11 00-0306		<b>Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0261)</small>		
33 31 11 00-0307	EA	4" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	137.74	
33 31 11 00-0308	EA	6" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	180.63	
33 31 11 00-0309	EA	8" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	330.90	
33 31 11 00-0310	EA	10" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	539.23	
33 31 11 00-0311	EA	12" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	907.83	
33 31 11 00-0312	EA	15" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,299.60	
33 31 11 00-0313	EA	18" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,889.89	
33 31 11 00-0314	EA	21" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	2,178.45	
33 31 11 00-0315	EA	24" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	2,466.93	
33 31 11 00-0316	EA	30" Wye, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	4,516.13	
33 31 11 00-0317		<b>Tees, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC)</b> <small>(33 31 11 00-0261)</small>		
33 31 11 00-0318	EA	4" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	124.41	
33 31 11 00-0319	EA	6" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	162.36	
33 31 11 00-0320	EA	8" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	293.56	
33 31 11 00-0321	EA	10" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	475.41	
33 31 11 00-0322	EA	12" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	795.71	
33 31 11 00-0323	EA	15" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,137.76	
33 31 11 00-0324	EA	18" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,652.92	
33 31 11 00-0325	EA	21" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	1,903.61	
33 31 11 00-0326	EA	24" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	2,154.25	
33 31 11 00-0327	EA	30" Tee, Smooth Interior, Double Wall, Corrugated Polyvinyl Chloride (PVC).....	3,928.66	
33 31 11 00-0328		<b>Couplings And Plug Fittings</b> <small>(33 31 11)</small>		

**33 Utilities****33 30 Sanitary Sewerage Utilities****33 31 Sanitary Sewerage Piping**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

<b>33 31 11 00-0329</b>	<b>Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings</b> <small>(33 31 11 00-0328)</small>			
	Note: For cast iron or plastic to cast iron to plastic pipe. Includes stainless steel clamps.			
33 31 11 00-0330	EA	1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150) .....	24.82	9.28
33 31 11 00-0331	EA	2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	27.22	10.82
33 31 11 00-0332	EA	3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	31.23	12.37
33 31 11 00-0333	EA	4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	35.17	13.15
33 31 11 00-0334	EA	5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	42.29	13.92
33 31 11 00-0335	EA	6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	49.45	15.46
33 31 11 00-0336	EA	8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	61.62	17.01
33 31 11 00-0337	EA	10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	74.94	17.79
33 31 11 00-0338	EA	12" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1212).....	119.54	18.56
33 31 11 00-0339	EA	15" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1515).....	160.45	20.11
33 31 11 00-0340	EA	18" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1818).....	302.41	20.87
33 31 11 00-0341	EA	21" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2121).....	350.43	22.04
33 31 11 00-0342	EA	24" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2424).....	387.71	23.20
33 31 11 00-0343	EA	27" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-2727).....	463.54	24.75

<b>33 31 11 00-0344</b>	<b>Cast Iron Service Saddles With U Bolt</b> <small>(33 31 11)</small>			
33 31 11 00-0345	EA	2" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt .....	133.64	
33 31 11 00-0346	EA	3" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt .....	134.27	
33 31 11 00-0347	EA	3" Diameter x 2" Tapped Tee Cast Iron Service Saddles With U Bolt .....	147.94	
33 31 11 00-0348	EA	4" Diameter x 1-1/2" Tapped Tee Cast Iron Service Saddles With U Bolt .....	142.88	
33 31 11 00-0349	EA	4" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt .....	160.88	
33 31 11 00-0350	EA	4" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt .....	180.46	
33 31 11 00-0351	EA	4" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt .....	213.57	
33 31 11 00-0352	EA	6" Diameter x 2" Hub Tee Cast Iron Service Saddles With U Bolt .....	180.07	
33 31 11 00-0353	EA	6" Diameter x 3" Hub Tee Cast Iron Service Saddles With U Bolt .....	196.80	
33 31 11 00-0354	EA	6" Diameter x 4" Hub Tee Cast Iron Service Saddles With U Bolt .....	227.26	
33 31 11 00-0355	EA	4" Diameter x 1-1/2" Tapped Wye Cast Iron Service Saddle With U Bolt .....	146.45	
33 31 11 00-0356	EA	4" Diameter x 2" Tapped Wye Cast Iron Service Saddle With U Bolt .....	160.12	
33 31 11 00-0357	EA	4" Diameter x 3" Hub Wye Cast Iron Service Saddle With U Bolt .....	188.81	
33 31 11 00-0358	EA	4" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt .....	223.82	
33 31 11 00-0359	EA	6" Diameter x 4" Hub Wye Cast Iron Service Saddle With U Bolt .....	240.04	

<b>33 31 11 00-0360</b>	<b>Manhole Inside Bowl Drop</b> <small>(33 31 11)</small>			
33 31 11 00-0361	EA	Inside Pipe Drop, 4" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96) .....	345.00	
33 31 11 00-0362	EA	Inside Pipe Drop, 4" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A4R96).....	361.25	
33 31 11 00-0363	EA	Inside Pipe Drop, 6" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6DB).....	371.16	
33 31 11 00-0364	EA	Inside Pipe Drop, 6" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A6R96).....	383.53	
33 31 11 00-0365	EA	Inside Pipe Drop, 8" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DB).....	399.23	
33 31 11 00-0366	EA	Inside Pipe Drop, 8" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A8DBR84).....	427.33	
33 31 11 00-0367	EA	Inside Pipe Drop, 10" Outlet for 4' to 5' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10DB).....	445.95	
33 31 11 00-0368	EA	Inside Pipe Drop, 10" Outlet for 6' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner A10R96).....	459.99	
33 31 11 00-0369	EA	Inside Pipe Drop, 12" Outlet for 4' to 6' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R60).....	785.85	
33 31 11 00-0370	EA	Inside Pipe Drop, 12" Outlet for 7' to 8' Diameter Manhole With Stainless Steel Expansion Bolts (Reliner 24/12R96).....	806.93	

**33 32 Sanitary Sewerage Equipment** (33 30)

<b>33 32 16</b>	<b>Packaged Wastewater Grinder Pump Assemblies</b> <small>(33 32)</small>			
<b>33 32 16 00-0001</b>	<b>Submersible Grinder Pumps, Cast Iron With Bronze Impeller</b> <small>(33 32 16)</small>			
33 32 16 00-0002	EA	2 HP Submersible Grinder Pump, 200/208, 230 Volt, 1 Phase, 3450 RPM, 1-1/2" Threaded Discharge .....	2,404.36	459.69
		Note: Zoeller 840 series.		
33 32 16 00-0003	EA	2 HP Submersible Grinder Pump, 200/208, 230, 460 Volt, 3 Phase, 3450 RPM, 1-1/2" Threaded Discharge .....	2,373.66	459.69
		Note: Zoeller 840 series.		
33 32 16 00-0004	EA	Simplex Control Panel With Auto Reversing Switch .....	1,103.48	153.18
		Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0005	EA	Duplex Control Panel With Auto Reversing Switch .....	1,673.97	153.18
		Note: For Zoeller 840 series grinder pump.		
33 32 16 00-0006	EA	Grinder Pump, 120 Gallon Sewage Basin, 1 HP, 120 V (Environment One 2012-74).....	13,270.90	
<b>33 32 16 00-0007</b>	<b>Submersible Grinder Pumps</b> <small>(33 32 16)</small>			
	Note: Includes 50' of cord with pumps unless otherwise noted.			
33 32 16 00-0008	EA	2 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof .....	4,080.05	834.99
33 32 16 00-0009	EA	3 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof .....	6,010.18	974.15
33 32 16 00-0010	EA	5 HP Submersible Grinder Pump At 3,450 RPM, Explosion Proof .....	7,379.20	1,252.48

**33 34 Onsite Wastewater Disposal** (33 30)

Note: Excludes distribution field piping, trenching or excavation.

<b>33 34 13</b>	<b>Septic Tanks</b> <small>(33 34)</small>			
<b>33 34 13 13</b>	<b>Concrete Septic Tanks</b> <small>(33 34 13)</small>			



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Sanitary Sewerage Utilities</b>	<b>33 30</b>	
<b>Onsite Wastewater Disposal</b>	<b>33 34</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 34 13 13-0001</b> <b>Precast Concrete Septic Tank</b> <small>(33 34 13 13)</small>		
Note: Includes external coating.		
33 34 13 13-0002    EA    1,000 Gallon Precast Septic Tank .....	4,269.95	834.99
For Non-Traffic Rated, Deduct .....		
	-811.13	
33 34 13 13-0003    EA    1,250 Gallon Precast Septic Tank .....	5,124.95	921.69
For Non-Traffic Rated, Deduct .....		
	-998.34	
33 34 13 13-0004    EA    1,500 Gallon Precast Septic Tank .....	5,947.28	1,008.26
For Non-Traffic Rated, Deduct .....		
	-1,177.35	
33 34 13 13-0005    EA    2,000 Gallon Precast Septic Tank .....	7,617.56	1,095.92
For Non-Traffic Rated, Deduct .....		
	-1,568.98	
33 34 13 13-0006    EA    2,500 Gallon Precast Septic Tank .....	9,093.33	1,513.42
For Non-Traffic Rated, Deduct .....		
	-1,810.41	
33 34 13 13-0007    EA    4,000 Gallon Precast Septic Tank .....	24,025.13	2,087.48
For Non-Traffic Rated, Deduct .....		
	-5,366.12	
33 34 13 13-0008    EA    5,000 Gallon Precast Septic Tank .....	43,632.70	3,131.22
For Non-Traffic Rated, Deduct .....		
	-9,950.67	
33 34 13 13-0009    EA    7,500 Gallon Precast Septic Tank .....	48,991.51	4,383.70
For Non-Traffic Rated, Deduct .....		
	-10,914.21	
33 34 13 13-0010    EA    10,000 Gallon Precast Septic Tank .....	60,064.06	5,244.86
For Non-Traffic Rated, Deduct .....		
	-13,415.62	
33 34 13 13-0011    EA    12,500 Gallon Precast Septic Tank .....	71,007.15	6,497.35
For Non-Traffic Rated, Deduct .....		
	-15,751.29	
<b>33 34 13 23</b> <b>Fiberglass Septic Tank</b> <small>(33 34 13)</small>		
<b>33 34 13 23-0001</b> <b>Fiberglass Septic Tank</b> <small>(33 34 13 23)</small>		
33 34 13 23-0002    EA    1,000 Gallon Fiberglass Septic Tank .....	4,908.77	626.24
33 34 13 23-0003    EA    1,250 Gallon Fiberglass Septic Tank .....	5,784.22	834.99
33 34 13 23-0004    EA    1,500 Gallon Fiberglass Septic Tank .....	6,650.13	756.78
33 34 13 23-0005    EA    2,000 Gallon Fiberglass Septic Tank .....	11,101.15	819.26
33 34 13 23-0006    EA    2,500 Gallon Fiberglass Septic Tank .....	13,941.47	1,135.59
33 34 13 23-0007    EA    4,000 Gallon Fiberglass Septic Tank .....	22,098.03	1,565.60
33 34 13 23-0008    EA    5,000 Gallon Fiberglass Septic Tank .....	32,799.04	2,348.42
33 34 13 23-0009    EA    7,500 Gallon Fiberglass Septic Tank .....	45,030.97	3,287.78
33 34 13 23-0010    EA    10,000 Gallon Fiberglass Septic Tank .....	55,256.32	3,929.61
<b>33 34 13 33</b> <b>Polyethylene Septic Tank</b> <small>(33 34 13)</small>		
<b>33 34 13 33-0001</b> <b>High Density Polyethylene (HDPE) Septic Tank</b> <small>(33 34 13 33)</small>		
33 34 13 33-0002    EA    300 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank .....	1,419.66	281.96
33 34 13 33-0003    EA    500 Gallon One Compartment One Manhole High Density Polyethylene (HDPE) Septic Tank .....	2,146.46	317.21
33 34 13 33-0004    EA    900 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	2,966.48	387.70
33 34 13 33-0005    EA    1,000 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	3,054.62	422.94
33 34 13 33-0006    EA    1,250 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	3,529.00	458.19
33 34 13 33-0007    EA    1,500 Gallon One Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	4,215.41	493.44
33 34 13 33-0008    EA    750 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	2,974.24	352.45
33 34 13 33-0009    EA    1,000 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	3,256.57	422.94
33 34 13 33-0010    EA    1,250 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	3,816.77	458.19
33 34 13 33-0011    EA    1,500 Gallon Two Compartment Two Manhole High Density Polyethylene (HDPE) Septic Tank .....	4,467.84	493.44
<b>33 34 51</b> <b>Drainage Field System</b> <small>(33 34)</small>		
<b>33 34 51 00-0001</b> <b>Leaching Pit - Precast Concrete</b> <small>(33 34 51)</small>		
Note: Includes external coating.		
33 34 51 00-0002    EA    3' Diameter, 3' High, Precast Concrete Leaching Pit .....	1,225.04	122.47
33 34 51 00-0003    EA    4' Diameter, 3' High, Precast Concrete Leaching Pit .....	1,737.90	173.96
33 34 51 00-0004    EA    6' Diameter, 3' High, Precast Concrete Leaching Pit .....	2,314.76	208.75
33 34 51 00-0005    EA    8' Diameter, 4' High, Precast Concrete Leaching Pit .....	3,759.97	347.91
33 34 51 00-0006    EA    10' Diameter, 4' High, Precast Concrete Leaching Pit .....	5,508.85	487.08
<b>33 34 53</b> <b>Distribution Chambers</b> <small>(33 34)</small>		
<b>33 34 53 13</b> <b>Drainage Field Concrete Distribution Chambers</b> <small>(33 34 53)</small>		
<b>33 34 53 13-0001</b> <b>Concrete Distribution Boxes</b> <small>(33 34 53 13)</small>		
Note: Includes internal and external coating.		
33 34 53 13-0002    EA    3 Outlet Concrete Distribution Box .....	390.95	93.25
33 34 53 13-0003    EA    5 Outlet Concrete Distribution Box .....	456.01	111.89
33 34 53 13-0004    EA    8 Outlet Concrete Distribution Box .....	778.56	130.54
33 34 53 13-0005    EA    12 Outlet Concrete Distribution Box .....	1,527.96	223.78
<b>33 34 53 13-0006</b> <b>Leaching Field Chambers - Precast Concrete</b> <small>(33 34 53 13)</small>		
33 34 53 13-0007    EA    Standard Leaching Field Chamber 13' x 3'-7" x 1'-4" .....	1,402.66	90.04
33 34 53 13-0008    EA    Heavy Duty Leaching Field Chamber 13' x 3'-9" x 1'-6" .....	1,696.12	122.78
<b>33 34 56</b> <b>Drainage Field Dosing Chambers</b> <small>(33 34)</small>		

**33 Utilities****33 30 Sanitary Sewerage Utilities****33 34 Onsite Wastewater Disposal**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 34 56 00-0001 Dosing Siphon</b> <small>(33 34 56)</small>		
33 34 56 00-0002 EA Dosing Siphon With Electrical Connection And Solenoid Valve.....	5,988.05	
33 34 56 00-0003 EA Solar Power Control For Dosing Siphon.....	4,102.54	
33 34 56 00-0004 EA Electrical Power Control For Dosing Siphon.....	3,943.06	
<b>33 40 Stormwater Utilities</b> <small>(33)</small>		
<b>33 41 Subdrainage</b> <small>(33 40)</small>		
<b>33 41 16 Subdrainage Piping</b> <small>(33 41)</small>		
<b>33 41 16 13 Subdrainage Piping</b> <small>(33 41 16)</small>		
See CSI section 33 42 11 00-0227 for polyethylene drain pipe.		
<b>33 41 16 13-0001 Corrugated High Density Polyethylene (HDPE) Drainage Piping</b> <small>(33 41 16 13)</small>		
<b>33 41 16 13-0002 Single Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 41 16 13-0001)</small>		
Note: Excludes couplings and gaskets.		
<b>33 41 16 13-0003 Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 41 16 13-0002)</small>		
33 41 16 13-0004 LF 4" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.96	4.73
For <100, Add	1.01	
For >1,000, Deduct	-0.53	
33 41 16 13-0005 LF 6" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	7.81	5.06
For <100, Add	1.15	
For >1,000, Deduct	-0.64	
33 41 16 13-0006 LF 8" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	10.18	5.32
For <100, Add	1.31	
For >1,000, Deduct	-0.78	
33 41 16 13-0007 LF 10" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	14.45	5.48
For <100, Add	1.54	
For >1,000, Deduct	-1.00	
33 41 16 13-0008 LF 12" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	17.18	5.99
For <100, Add	1.76	
For >1,000, Deduct	-1.16	
33 41 16 13-0009 LF 15" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	23.05	6.75
For <100, Add	2.17	
For >1,000, Deduct	-1.49	
33 41 16 13-0010 LF 18" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	36.88	11.36
For <100, Add	3.55	
For >1,000, Deduct	-2.41	
33 41 16 13-0011 LF 24" Coupled, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	52.32	12.48
For <100, Add	4.49	
For >1,000, Deduct	-3.24	
<b>33 41 16 13-0012 Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> <small>(33 41 16 13-0002)</small>		
33 41 16 13-0013 LF 4" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	5.78	4.73
For <100, Add	1.00	
For >1,000, Deduct	-0.53	
33 41 16 13-0014 LF 6" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	7.73	5.06
For <100, Add	1.15	
For >1,000, Deduct	-0.64	
33 41 16 13-0015 LF 8" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	13.52	5.32
For <100, Add	1.47	
For >1,000, Deduct	-0.94	
33 41 16 13-0016 LF 10" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	16.21	5.48
For <100, Add	1.63	
For >1,000, Deduct	-1.08	
33 41 16 13-0017 LF 12" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	19.11	5.99
For <100, Add	1.85	
For >1,000, Deduct	-1.26	
33 41 16 13-0018 LF 15" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	22.84	6.75
For <100, Add	2.15	
For >1,000, Deduct	-1.48	
33 41 16 13-0019 LF 18" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	35.61	11.36
For <100, Add	3.48	
For >1,000, Deduct	-2.35	
33 41 16 13-0020 LF 24" Coupled, Perforated, Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	50.31	12.48
For <100, Add	4.39	
For >1,000, Deduct	-3.14	
<b>33 41 16 13-0021 Single Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings</b> <small>(33 41 16 13-0001)</small>		
Note: Excludes couplings and gaskets.		
<b>33 41 16 13-0022 Tees, Single Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 41 16 13-0021)</small>		
33 41 16 13-0023 EA 4" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	49.65	26.39
33 41 16 13-0024 EA 6" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	59.12	30.79
33 41 16 13-0025 EA 8" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	97.58	37.39





<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Stormwater Utilities</b>	<b>33 40</b>	
<b>Subdrainage</b>	<b>33 41</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0026 EA 10" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	125.52	46.20
33 41 16 13-0027 EA 12" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	188.09	55.00
33 41 16 13-0028 EA 15" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	414.58	71.86
33 41 16 13-0029 EA 18" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	494.34	96.78
33 41 16 13-0030 EA 24" Tee, Single Wall, Corrugated High Density Polyethylene (HDPE).....	944.75	109.98
<b>33 41 16 13-0031 Wyes, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)</b>		
33 41 16 13-0032 EA 4" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	51.15	26.39
33 41 16 13-0033 EA 6" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	64.03	30.79
33 41 16 13-0034 EA 8" Wye, Single Wall, Corrugated High Density Polyethylene (HDPE) .....	148.96	37.39
<b>33 41 16 13-0035 45 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)</b>		
33 41 16 13-0036 EA 4" 45 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	33.61	17.60
<b>33 41 16 13-0037 90 Degree Bends, Single Wall, Corrugated High Density Polyethylene (HDPE) (33 41 16 13-0021)</b>		
33 41 16 13-0038 EA 4" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	35.18	17.60
33 41 16 13-0039 EA 6" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	45.77	20.53
33 41 16 13-0040 EA 8" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	68.72	24.93
33 41 16 13-0041 EA 10" 90 Degree Bend, Single Wall, Corrugated High Density Polyethylene (HDPE).....	90.82	30.79
<b>33 41 16 13-0042 Perforated Polyvinyl Chloride (PVC) Drainage Piping, D2729 (33 41 16 13)</b>		
Note: Includes fittings, couplings, elbows, etc.		
33 41 16 13-0043 LF 3" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	10.40	4.97
For <100, Add	1.27	
For >1,000, Deduct	-0.77	
33 41 16 13-0044 LF 4" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	11.41	5.37
For <100, Add	1.38	
For >1,000, Deduct	-0.84	
33 41 16 13-0045 LF 6" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	16.84	6.44
For <100, Add	1.81	
For >1,000, Deduct	-1.16	
33 41 16 13-0046 LF 8" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	27.45	8.04
For <100, Add	2.58	
For >1,000, Deduct	-1.77	
33 41 16 13-0047 LF 10" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	47.20	8.37
For <100, Add	3.62	
For >1,000, Deduct	-2.78	
33 41 16 13-0048 LF 12" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	61.12	9.14
For <100, Add	4.43	
For >1,000, Deduct	-3.51	
33 41 16 13-0049 LF 15" Perforated Polyvinyl Chloride (PVC) Drainage Piping .....	85.68	10.30
For <100, Add	5.83	
For >1,000, Deduct	-4.80	
<b>33 41 16 13-0050 Perforated Non-Reinforced Concrete Drainage Piping, C444 (33 41 16 13)</b>		
33 41 16 13-0051 LF 6" Perforated Non-Reinforced Concrete Drainage Pipe.....	33.10	12.00
For Extra Strength, Add	1.88	
For >1,000, Deduct	-1.66	
33 41 16 13-0052 LF 8" Perforated Non-Reinforced Concrete Drainage Pipe.....	38.73	13.33
For Extra Strength, Add	2.31	
For >1,000, Deduct	-1.94	
33 41 16 13-0053 LF 10" Perforated Non-Reinforced Concrete Drainage Pipe.....	43.85	14.67
For Extra Strength, Add	2.69	
For >1,000, Deduct	-2.19	
33 41 16 13-0054 LF 12" Perforated Non-Reinforced Concrete Drainage Pipe.....	51.56	16.01
For Extra Strength, Add	3.37	
For >1,000, Deduct	-2.58	
<b>33 41 16 13-0055 Extra Strength Porous Non-Reinforced Concrete Drainage Piping, C654 (33 41 16 13)</b>		
Note: Bell and spigot or tongue and groove. With seals and gaskets.		
33 41 16 13-0056 LF 6" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe.....	27.29	12.00
For >1,000, Deduct	-1.36	
33 41 16 13-0057 LF 8" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe.....	30.20	13.33
For >1,000, Deduct	-1.51	
33 41 16 13-0058 LF 10" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....	33.32	14.67
For >1,000, Deduct	-1.67	
33 41 16 13-0059 LF 12" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....	38.08	15.24
For >1,000, Deduct	-1.90	
33 41 16 13-0060 LF 15" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....	44.30	17.14
For >1,000, Deduct	-2.22	
33 41 16 13-0061 LF 18" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe .....	54.81	21.91
For >1,000, Deduct	-2.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0062 LF 21" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe ..... <i>For &gt;1,000, Deduct</i>	68.45 -3.42	28.10
33 41 16 13-0063 LF 24" Extra Strength Porous Non-Reinforced Concrete Drainage Pipe ..... <i>For &gt;1,000, Deduct</i>	83.47 -4.17	34.30
<b>33 41 16 13-0064 Standard Strength Porous Non-Reinforced Concrete Drainage Piping, C654 (33 41 16 13)</b>		
33 41 16 13-0065 LF 6" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe ..... <i>For &gt;1,000, Deduct</i>	25.37 -1.27	12.00
33 41 16 13-0066 LF 8" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe ..... <i>For &gt;1,000, Deduct</i>	32.33 -1.62	13.33
33 41 16 13-0067 LF 10" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe ..... <i>For &gt;1,000, Deduct</i>	41.01 -2.05	14.67
33 41 16 13-0068 LF 12" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe ..... <i>For &gt;1,000, Deduct</i>	49.86 -2.49	16.01
33 41 16 13-0069 LF 15" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe ..... <i>For &gt;1,000, Deduct</i>	57.13 -2.86	17.81
33 41 16 13-0070 LF 18" Standard Strength Porous Non-Reinforced Concrete Drainage Pipe ..... <i>For &gt;1,000, Deduct</i>	74.09 -3.70	22.21
<b>33 41 16 13-0071 Perforated Vitrified Clay Drainage Piping, C700 (33 41 16 13)</b>		
33 41 16 13-0072 LF 4" Perforated Vitrified Clay Drainage Pipe .....	25.10	13.33
33 41 16 13-0073 LF 6" Perforated Vitrified Clay Drainage Pipe .....	30.02	15.01
33 41 16 13-0074 LF 8" Perforated Vitrified Clay Drainage Pipe .....	34.32	15.01
33 41 16 13-0075 LF 10" Perforated Vitrified Clay Drainage Pipe .....	46.04	18.33
33 41 16 13-0076 LF 12" Perforated Vitrified Clay Drainage Pipe .....	54.78	20.01
<b>33 41 16 13-0077 Geotextile Filter Fabric Sock (33 41 16 13)</b>		
33 41 16 13-0078 LF 3" Geotextile Filter Fabric Sock.....	0.81	
33 41 16 13-0079 LF 4" Geotextile Filter Fabric Sock.....	1.07	
33 41 16 13-0080 LF 6" Geotextile Filter Fabric Sock.....	1.62	
33 41 16 13-0081 LF 8" Geotextile Filter Fabric Sock.....	2.16	
33 41 16 13-0082 LF 10" Geotextile Filter Fabric Sock.....	3.27	
33 41 16 13-0083 LF 12" Geotextile Filter Fabric Sock.....	4.53	
33 41 16 13-0084 LF 15" Geotextile Filter Fabric Sock.....	5.48	
<b>33 41 16 13-0085 Strip-Perforated, Galvanized, Corrugated Steel Pipe (33 41 16 13)</b>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0086 LF 6" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	24.23 1.28	5.71
33 41 16 13-0087 LF 8" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	30.73 1.69	6.92
33 41 16 13-0088 LF 10" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	38.73 2.12	8.79
33 41 16 13-0089 LF 12" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	42.90 2.21	10.39
33 41 16 13-0090 LF 15" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	49.32 2.78	10.76
33 41 16 13-0091 LF 18" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	55.88 3.36	11.15
33 41 16 13-0092 LF 21" Diameter, 16 Gauge, Strip-Perforated, Galvanized, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	64.03 4.00	12.03
<b>33 41 16 13-0093 Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe (33 41 16 13)</b>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0094 LF 6" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	26.29 1.49	5.71
33 41 16 13-0095 LF 8" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	33.52 1.97	6.92
33 41 16 13-0096 LF 10" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	42.14 2.46	8.79
33 41 16 13-0097 LF 12" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	46.21 2.54	10.39
33 41 16 13-0098 LF 15" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	53.41 3.19	10.76
33 41 16 13-0099 LF 18" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	60.74 3.84	11.15
33 41 16 13-0100 LF 21" Diameter, 16 Gauge, Strip-Perforated, Aluminized Type 2, Corrugated Steel Pipe ..... <i>For Full Perforated, Add</i>	69.69 4.56	12.03
<b>33 41 16 13-0101 Strip-Perforated, Corrugated Aluminum Pipe (33 41 16 13)</b>		
Note: Perforations are located in the bottom quarter points of the pipe.		
33 41 16 13-0102 LF 6" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe ..... <i>For Full Perforated, Add</i>	26.95 1.55	5.71
33 41 16 13-0103 LF 8" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe ..... <i>For Full Perforated, Add</i>	34.37 2.05	6.92



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Subdrainage</b>	<b>33 41</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 41 16 13-0104	LF		10" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe ..... <i>For Full Perforated, Add</i>	43.23 2.57	8.79
33 41 16 13-0105	LF		12" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe ..... <i>For Full Perforated, Add</i>	54.38 3.36	10.39
33 41 16 13-0106	LF		15" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe ..... <i>For Full Perforated, Add</i>	63.58 4.21	10.76
33 41 16 13-0107	LF		18" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe ..... <i>For Full Perforated, Add</i>	73.07 5.08	11.15
33 41 16 13-0108	LF		21" Diameter, 16 Gauge, Strip-Perforated, Corrugated Aluminum Pipe ..... <i>For Full Perforated, Add</i>	84.07 6.00	12.03
<b>33 41 16 13-0109</b>			<b>Prefabricated Composite Drains</b> <small>(33 41 16 13)</small>		
<b>33 41 16 13-0110</b>			<b>Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)</b> <small>(33 41 16 13-0109)</small>		
			Note: Excludes excavation and backfill. See CSI section 31 23 16 13-0000 for excavation and backfill.		
33 41 16 13-0111	LF		12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)..... <i>For External Typar Geotextile Wrap, Add</i>	11.13 2.09	2.22
33 41 16 13-0112	EA		Coupler For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	50.70	
33 41 16 13-0113	EA		End Cap For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	50.70	
33 41 16 13-0114	EA		Side Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	99.21	
33 41 16 13-0115	EA		End Outlet For 12" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	99.21	
33 41 16 13-0116	LF		18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE)..... <i>For External Typar Geotextile Wrap, Add</i>	17.89 3.14	2.78
33 41 16 13-0117	EA		Coupler For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	75.61	
33 41 16 13-0118	EA		End Cap For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	75.61	
33 41 16 13-0119	EA		Side Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	130.69	
33 41 16 13-0120	EA		End Outlet For 18" Height, Panel-Shaped, Oblong Corrugated HDPE Drainage Pipe (ADS AdvanEDGE).....	130.69	
<b>33 41 19</b>			<b>Underslab Drainage</b> <small>(33 41)</small>		
<b>33 41 19 13</b>			<b>Underslab Drainage Piping</b> <small>(33 41 19)</small>		
<b>33 41 19 13-0001</b>			<b>Capillary Water Barrier Underslab Drainage</b> <small>(33 41 19 13)</small>		
			Note: Consists of a layer of fine granular material overlying a coarse layer.		
33 41 19 13-0002	CY		2" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage .....	121.56	
33 41 19 13-0003	CY		4" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage .....	119.03	
33 41 19 13-0004	CY		6" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage .....	118.01	
33 41 19 13-0005	CY		8" Stone Capillary Water Barrier (Compacted Thickness) Underslab Drainage .....	116.48	
<b>33 42</b>			<b>Stormwater Conveyance</b> <small>(33 40)</small>		
			Note: Piping includes hydrostatic testing, disinfecting and warning tape. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
<b>33 42 11</b>			<b>Stormwater Gravity Piping</b> <small>(33 42)</small>		
<b>33 42 11 00-0001</b>			<b>Reinforced Concrete Piping</b> <small>(33 42 11)</small>		
<b>33 42 11 00-0002</b>			<b>Class 3 Reinforced Concrete Pipe Without Gaskets</b> <small>(33 42 11 00-0001)</small>		
33 42 11 00-0003	LF		12" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For &gt;1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	49.66 -2.48 2.55 5.36	16.01
33 42 11 00-0004	LF		15" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For &gt;1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	59.75 -2.99 3.26 6.86	17.81
33 42 11 00-0005	LF		18" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For &gt;1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	67.82 -3.39 3.43 7.22	22.21
33 42 11 00-0006	LF		21" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For &gt;1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	86.93 -4.35 4.46 9.38	28.01
33 42 11 00-0007	LF		24" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For &gt;1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	101.67 -5.08 5.04 10.62	34.01
33 42 11 00-0008	LF		27" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For &gt;1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	129.30 -6.47 6.37 13.40	43.60
33 42 11 00-0009	LF		30" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For &gt;1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	137.56 -6.88 6.89 14.50	45.02
33 42 11 00-0010	LF		36" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets..... <i>For &gt;1,000, Deduct</i> <i>For Class 4, Add</i> <i>For Class 5, Add</i>	170.63 -8.53 9.34 19.66	51.16

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0011 LF 42" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	221.82	56.28
For >1,000, Deduct	-11.09	
For Class 4, Add	13.51	
For Class 5, Add	28.44	
33 42 11 00-0012 LF 48" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	265.93	62.67
For >1,000, Deduct	-13.30	
For Class 4, Add	16.76	
For Class 5, Add	35.28	
33 42 11 00-0013 LF 54" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	331.37	71.62
For >1,000, Deduct	-16.57	
For Class 4, Add	21.76	
For Class 5, Add	45.81	
33 42 11 00-0014 LF 60" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	400.39	83.08
For >1,000, Deduct	-20.02	
For Class 4, Add	26.76	
For Class 5, Add	56.34	
33 42 11 00-0015 LF 66" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	619.67	92.09
For >1,000, Deduct	-30.98	
For Class 4, Add	46.43	
For Class 5, Add	97.74	
33 42 11 00-0016 LF 72" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	723.42	100.27
For >1,000, Deduct	-36.17	
For Class 4, Add	55.12	
For Class 5, Add	116.03	
33 42 11 00-0017 LF 78" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	870.47	112.55
For >1,000, Deduct	-43.52	
For Class 4, Add	67.39	
For Class 5, Add	141.86	
33 42 11 00-0018 LF 84" Diameter Class 3 Reinforced Concrete Pipe Without Gaskets.....	1,122.67	125.34
For >1,000, Deduct	-56.13	
For Class 4, Add	89.64	
For Class 5, Add	188.72	
<b>33 42 11 00-0019 HE-I Elliptical Reinforced Concrete Piping Without Gaskets (33 42 11 00-0001)</b>		
33 42 11 00-0020 LF 12" x 18" Elliptical Reinforced Concrete Pipe Without Gaskets (15" Diameter Equivalent Round Size).....	83.90	25.44
For >1,000, Deduct	-4.20	
For Horizontal Elliptical - II (HE- II), Add	4.76	
For Horizontal Elliptical - III (HE- III), Add	10.46	
For Horizontal Elliptical - IV (HE- IV), Add	22.83	
33 42 11 00-0021 LF 14" x 23" Elliptical Reinforced Concrete Pipe Without Gaskets (18" Diameter Equivalent Round Size).....	120.30	29.53
For >1,000, Deduct	-6.02	
For Horizontal Elliptical - II (HE- II), Add	7.81	
For Horizontal Elliptical - III (HE- III), Add	17.18	
For Horizontal Elliptical - IV (HE- IV), Add	37.49	
33 42 11 00-0022 LF 19" x 30" Elliptical Reinforced Concrete Pipe Without Gaskets (24" Diameter Equivalent Round Size).....	166.81	45.23
For >1,000, Deduct	-8.34	
For Horizontal Elliptical - II (HE- II), Add	10.22	
For Horizontal Elliptical - III (HE- III), Add	22.48	
For Horizontal Elliptical - IV (HE- IV), Add	49.05	
33 42 11 00-0023 LF 22" x 34" Elliptical Reinforced Concrete Pipe Without Gaskets (27" Diameter Equivalent Round Size).....	197.09	57.99
For >1,000, Deduct	-9.85	
For Horizontal Elliptical - II (HE- II), Add	11.43	
For Horizontal Elliptical - III (HE- III), Add	25.14	
For Horizontal Elliptical - IV (HE- IV), Add	54.84	
33 42 11 00-0024 LF 24" x 38" Elliptical Reinforced Concrete Pipe Without Gaskets (30" Diameter Equivalent Round Size).....	209.27	60.59
For >1,000, Deduct	-10.46	
For Horizontal Elliptical - II (HE- II), Add	12.27	
For Horizontal Elliptical - III (HE- III), Add	27.00	
For Horizontal Elliptical - IV (HE- IV), Add	58.90	
33 42 11 00-0025 LF 27" x 42" Elliptical Reinforced Concrete Pipe Without Gaskets (33" Diameter Equivalent Round Size).....	240.61	63.97
For >1,000, Deduct	-12.03	
For Horizontal Elliptical - II (HE- II), Add	14.92	
For Horizontal Elliptical - III (HE- III), Add	32.83	
For Horizontal Elliptical - IV (HE- IV), Add	71.63	
33 42 11 00-0026 LF 29" x 45" Elliptical Reinforced Concrete Pipe Without Gaskets (36" Diameter Equivalent Round Size).....	271.94	67.35
For >1,000, Deduct	-13.60	
For Horizontal Elliptical - II (HE- II), Add	17.57	
For Horizontal Elliptical - III (HE- III), Add	38.66	
For Horizontal Elliptical - IV (HE- IV), Add	84.35	
33 42 11 00-0027 LF 34" x 53" Elliptical Reinforced Concrete Pipe Without Gaskets (42" Diameter Equivalent Round Size).....	331.94	74.11
For >1,000, Deduct	-16.60	
For Horizontal Elliptical - II (HE- II), Add	22.61	
For Horizontal Elliptical - III (HE- III), Add	49.74	
For Horizontal Elliptical - IV (HE- IV), Add	108.51	
33 42 11 00-0028 LF 38" x 60" Elliptical Reinforced Concrete Pipe Without Gaskets (48" Diameter Equivalent Round Size).....	400.33	83.35
For >1,000, Deduct	-20.02	
For Horizontal Elliptical - II (HE- II), Add	28.13	
For Horizontal Elliptical - III (HE- III), Add	61.88	
For Horizontal Elliptical - IV (HE- IV), Add	135.00	
33 42 11 00-0029 LF 43" x 68" Elliptical Reinforced Concrete Pipe Without Gaskets (54" Diameter Equivalent Round Size).....	455.70	95.26
For >1,000, Deduct	-22.79	
For Horizontal Elliptical - II (HE- II), Add	31.96	
For Horizontal Elliptical - III (HE- III), Add	70.31	
For Horizontal Elliptical - IV (HE- IV), Add	153.41	



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0030	LF		48" x 76" Elliptical Reinforced Concrete Pipe Without Gaskets (60" Diameter Equivalent Round Size).....	564.83	110.50
			<i>For &gt;1,000, Deduct</i>	-28.24	
			<i>For Horizontal Elliptical - II (HE- II), Add</i>	40.70	
			<i>For Horizontal Elliptical - III (HE- III), Add</i>	89.53	
			<i>For Horizontal Elliptical - IV (HE- IV), Add</i>	195.35	
33 42 11 00-0031	LF		53" x 83" Elliptical Reinforced Concrete Pipe without Gaskets (66" Diameter Equivalent Round Size).....	644.96	121.76
33 42 11 00-0032	LF		58" x 91" Elliptical Reinforced Concrete Pipe without Gaskets (72" Diameter Equivalent Round Size).....	783.09	133.02
33 42 11 00-0033	LF		63" x 98" Elliptical Reinforced Concrete Pipe without Gaskets (78" Diameter Equivalent Round Size).....	936.06	150.41
33 42 11 00-0034	LF		68" x 106" Elliptical Reinforced Concrete Pipe without Gaskets (84" Diameter Equivalent Round Size).....	1,013.04	166.78
33 42 11 00-0035	LF		72" x 113" Elliptical Reinforced Concrete Pipe without Gaskets (90" Diameter Equivalent Round Size).....	1,299.97	174.97
33 42 11 00-0036	LF		77" x 121" Elliptical Reinforced Concrete Pipe without Gaskets (96" Diameter Equivalent Round Size).....	1,507.88	183.16
<b>33 42 11 00-0037</b>			<b>Concrete Reducing Wye Without Gaskets (33 42 11 00-0001)</b>		
33 42 11 00-0038	EA		12" Concrete Reducing Wye Without Gaskets .....	616.61	60.97
33 42 11 00-0039	EA		15" Concrete Reducing Wye Without Gaskets .....	739.33	74.30
33 42 11 00-0040	EA		18" Concrete Reducing Wye Without Gaskets .....	914.49	81.93
33 42 11 00-0041	EA		21" Concrete Reducing Wye Without Gaskets .....	1,048.87	100.98
33 42 11 00-0042	EA		24" Concrete Reducing Wye Without Gaskets .....	1,184.71	121.93
<b>33 42 11 00-0043</b>			<b>Concrete Pipe Joint Gaskets (33 42 11 00-0001)</b>		
33 42 11 00-0044	EA		12" Diameter Concrete Pipe Joint Gasket .....	5.94	
33 42 11 00-0045	EA		15" Diameter Concrete Pipe Joint Gasket .....	7.03	
33 42 11 00-0046	EA		18" Diameter Concrete Pipe Joint Gasket .....	8.15	
33 42 11 00-0047	EA		21" Diameter Concrete Pipe Joint Gasket .....	9.85	
33 42 11 00-0048	EA		24" Diameter Concrete Pipe Joint Gasket .....	11.54	
33 42 11 00-0049	EA		27" Diameter Concrete Pipe Joint Gasket .....	12.85	
33 42 11 00-0050	EA		30" Diameter Concrete Pipe Joint Gasket .....	14.12	
33 42 11 00-0051	EA		36" Diameter Concrete Pipe Joint Gasket .....	17.26	
33 42 11 00-0052	EA		42" Diameter Concrete Pipe Joint Gasket .....	20.00	
33 42 11 00-0053	EA		48" Diameter Concrete Pipe Joint Gasket .....	23.07	
33 42 11 00-0054	EA		54" Diameter Concrete Pipe Joint Gasket .....	28.28	
33 42 11 00-0055	EA		60" Diameter Concrete Pipe Joint Gasket .....	41.86	
33 42 11 00-0056	EA		66" Diameter Concrete Pipe Joint Gasket .....	43.52	
33 42 11 00-0057	EA		72" Diameter Concrete Pipe Joint Gasket .....	45.12	
33 42 11 00-0058	EA		78" Diameter Concrete Pipe Joint Gasket .....	51.96	
33 42 11 00-0059	EA		84" Diameter Concrete Pipe Joint Gasket .....	62.30	
<b>33 42 11 00-0060</b>			<b>Precast Concrete Cut Off Wall (33 42 11 00-0001)</b>		
33 42 11 00-0061	EA		12" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	296.08	180.08
33 42 11 00-0062	EA		15" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	364.80	223.05
33 42 11 00-0063	EA		18" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	449.90	282.40
33 42 11 00-0064	EA		21" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	530.90	337.65
33 42 11 00-0065	EA		24" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	609.76	390.76
33 42 11 00-0066	EA		27" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	744.08	499.32
33 42 11 00-0067	EA		30" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	958.33	687.59
33 42 11 00-0068	EA		36" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	1,190.14	867.67
33 42 11 00-0069	EA		42" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	1,462.23	1,088.48
33 42 11 00-0070	EA		48" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	1,632.80	1,226.81
33 42 11 00-0071	EA		54" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	1,820.62	1,375.19
33 42 11 00-0072	EA		60" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	2,010.19	1,527.64
33 42 11 00-0073	EA		66" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	2,089.40	1,585.97
33 42 11 00-0074	EA		72" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	2,159.11	1,637.12
33 42 11 00-0075	EA		78" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	2,228.84	1,688.29
33 42 11 00-0076	EA		84" ID Pipe, 18" Thick, 36" High, Precast Concrete Cut Off Wall .....	2,300.87	1,739.44
<b>33 42 11 00-0077</b>			<b>Strap Assembly (33 42 11 00-0001)</b>		
			Note: Includes drilling holes in concrete pipe, setting threaded rod, bolts, and mounting the 12' strap.		
33 42 11 00-0078	EA		Up To 24" Diameter Pipe, 12' Strap Assembly .....	243.38	
33 42 11 00-0079	EA		>24" Diameter Pipe, 12' Strap Assembly .....	344.31	
<b>33 42 11 00-0080</b>			<b>Prestressed Concrete Cylinder Piping (33 42 11)</b>		
<b>33 42 11 00-0081</b>			<b>150 PSI Prestressed Concrete Cylinder Pipe And Fittings (33 42 11 00-0080)</b>		
<b>33 42 11 00-0082</b>			<b>150 PSI Prestressed Concrete Cylinder Pipe With Gaskets (33 42 11 00-0081)</b>		
			Note: Lined-cylinder pipe (AWWA C301) up to 48". Embedded-cylinder pipe (AWWA C301) >48".		
33 42 11 00-0083	LF		12" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	138.33	16.01
			<i>For &gt;1,000, Deduct</i>	-6.92	
			<i>For 100 PSI, Deduct</i>	-28.87	
33 42 11 00-0084	LF		15" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	147.59	17.81
			<i>For &gt;1,000, Deduct</i>	-7.38	
			<i>For 100 PSI, Deduct</i>	-30.54	
33 42 11 00-0085	LF		18" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	160.57	22.21
			<i>For &gt;1,000, Deduct</i>	-8.03	
			<i>For 100 PSI, Deduct</i>	-32.21	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0086 LF 21" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	175.54	28.01
For >1,000, Deduct	-8.78	
For 100 PSI, Deduct	-33.88	
33 42 11 00-0087 LF 24" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	190.80	34.01
For >1,000, Deduct	-9.54	
For 100 PSI, Deduct	-35.56	
33 42 11 00-0088 LF 30" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	224.31	45.02
For >1,000, Deduct	-11.22	
For 100 PSI, Deduct	-39.81	
33 42 11 00-0089 LF 36" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	248.59	51.16
For >1,000, Deduct	-12.43	
For 100 PSI, Deduct	-44.06	
33 42 11 00-0090 LF 42" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	288.67	56.28
For >1,000, Deduct	-14.43	
For 100 PSI, Deduct	-52.27	
33 42 11 00-0091 LF 48" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	331.42	62.67
For >1,000, Deduct	-16.57	
For 100 PSI, Deduct	-60.47	
33 42 11 00-0092 LF 54" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	440.78	82.22
For >1,000, Deduct	-22.04	
For 100 PSI, Deduct	-80.83	
33 42 11 00-0093 LF 60" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	531.28	95.37
For >1,000, Deduct	-26.56	
For 100 PSI, Deduct	-98.76	
33 42 11 00-0094 LF 66" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	597.03	105.71
For >1,000, Deduct	-29.85	
For 100 PSI, Deduct	-111.68	
33 42 11 00-0095 LF 72" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	665.82	115.10
For >1,000, Deduct	-33.29	
For 100 PSI, Deduct	-125.35	
33 42 11 00-0096 LF 78" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	756.27	129.19
For >1,000, Deduct	-37.81	
For 100 PSI, Deduct	-142.82	
33 42 11 00-0097 LF 84" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	846.73	143.88
For >1,000, Deduct	-42.34	
For 100 PSI, Deduct	-160.30	
33 42 11 00-0098 LF 90" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,046.04	167.95
For >1,000, Deduct	-52.30	
For 100 PSI, Deduct	-201.32	
33 42 11 00-0099 LF 96" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,231.22	191.79
For >1,000, Deduct	-61.56	
For 100 PSI, Deduct	-239.31	
33 42 11 00-0100 LF 102" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,434.15	206.22
For >1,000, Deduct	-71.71	
For 100 PSI, Deduct	-284.89	
33 42 11 00-0101 LF 108" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,619.52	218.99
For >1,000, Deduct	-80.98	
For 100 PSI, Deduct	-326.67	
33 42 11 00-0102 LF 114" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	1,956.84	231.76
For >1,000, Deduct	-97.84	
For 100 PSI, Deduct	-406.44	
33 42 11 00-0103 LF 120" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,277.42	243.45
For >1,000, Deduct	-113.87	
For 100 PSI, Deduct	-482.41	
33 42 11 00-0104 LF 126" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,482.52	255.14
For >1,000, Deduct	-124.13	
For 100 PSI, Deduct	-529.51	
33 42 11 00-0105 LF 132" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,690.68	266.83
For >1,000, Deduct	-134.53	
For 100 PSI, Deduct	-577.37	
33 42 11 00-0106 LF 138" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	2,897.30	278.52
For >1,000, Deduct	-144.87	
For 100 PSI, Deduct	-624.85	
33 42 11 00-0107 LF 144" 150 PSI Prestressed Concrete Cylinder Pipe With Gaskets.....	3,103.93	290.21
For >1,000, Deduct	-155.20	
For 100 PSI, Deduct	-672.34	
<b>33 42 11 00-0108 150 PSI Prestressed Concrete Cylinder 90 Degree Elbows With Gaskets (33</b>		
<small>42 11 00-0081)</small>		
33 42 11 00-0109 EA 12" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	455.05	150.04
33 42 11 00-0110 EA 15" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	629.24	214.33
33 42 11 00-0111 EA 18" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	808.60	285.78
33 42 11 00-0112 EA 21" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	987.95	357.23
33 42 11 00-0113 EA 24" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,198.73	443.92
33 42 11 00-0114 EA 30" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,536.18	595.39
33 42 11 00-0115 EA 36" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,918.40	716.24
33 42 11 00-0116 EA 42" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,234.09	835.96
33 42 11 00-0117 EA 48" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,514.70	954.65
33 42 11 00-0118 EA 54" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,092.86	1,192.03
33 42 11 00-0119 EA 60" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,101.29	1,644.25
33 42 11 00-0120 EA 66" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,571.61	1,820.42
33 42 11 00-0121 EA 72" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,041.95	1,996.60
33 42 11 00-0122 EA 78" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,081.50	2,290.21
33 42 11 00-0123 EA 84" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,114.55	2,583.82



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0124	EA		90" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,426.96	2,936.17
33 42 11 00-0125	EA		96" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	9,732.88	3,288.50
33 42 11 00-0126	EA		102" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	12,940.62	4,145.91
33 42 11 00-0127	EA		108" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	16,131.85	4,975.09
33 42 11 00-0128	EA		114" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	20,961.81	6,633.45
33 42 11 00-0129	EA		120" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,713.28	8,291.82
33 42 11 00-0130	EA		126" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	29,026.90	8,943.32
33 42 11 00-0131	EA		132" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	32,344.92	9,594.81
33 42 11 00-0132	EA		138" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	42,257.73	10,246.31
33 42 11 00-0133	EA		144" 90 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	39,048.95	10,897.82
<b>33 42 11 00-0134</b>			<b>150 PSI Prestressed Concrete Cylinder 45 Degree Elbows With Gaskets (33</b>		
			<small>42 11 00-0081)</small>		
33 42 11 00-0135	EA		12" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	424.05	150.04
33 42 11 00-0136	EA		15" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	589.13	214.33
33 42 11 00-0137	EA		18" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	761.19	285.78
33 42 11 00-0138	EA		21" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	933.25	357.23
33 42 11 00-0139	EA		24" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,136.74	443.92
33 42 11 00-0140	EA		30" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,451.10	555.38
33 42 11 00-0141	EA		36" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	1,821.16	716.24
33 42 11 00-0142	EA		42" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,121.65	835.96
33 42 11 00-0143	EA		48" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,393.76	954.65
33 42 11 00-0144	EA		54" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	2,920.40	1,192.03
33 42 11 00-0145	EA		60" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	3,937.59	1,644.25
33 42 11 00-0146	EA		66" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,396.05	1,820.42
33 42 11 00-0147	EA		72" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	4,854.53	1,996.60
33 42 11 00-0148	EA		78" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	5,644.01	2,290.21
33 42 11 00-0149	EA		84" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	6,426.99	2,583.82
33 42 11 00-0150	EA		90" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	7,559.26	2,936.17
33 42 11 00-0151	EA		96" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	8,685.04	3,288.50
33 42 11 00-0152	EA		102" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	11,326.53	4,110.63
33 42 11 00-0153	EA		108" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	14,092.62	4,975.09
33 42 11 00-0154	EA		114" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	18,426.45	6,633.45
33 42 11 00-0155	EA		120" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	22,681.77	8,291.82
33 42 11 00-0156	EA		126" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	25,327.92	8,943.32
33 42 11 00-0157	EA		132" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	27,978.47	10,897.82
33 42 11 00-0158	EA		138" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	30,638.92	10,246.31
33 42 11 00-0159	EA		144" 45 Degree Elbows With Gaskets, 150 PSI Prestressed Concrete Cylinder Piping.....	33,619.63	10,897.82
<b>33 42 11 00-0160</b>			<b>400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11 00-0080)</b>		
<b>33 42 11 00-0161</b>			<b>400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints (33 42 11</b>		
			<small>00-0160)</small>		
			Note: AWWA C301		
33 42 11 00-0162	LF		30" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....	264.28	45.02
			For >1,000, Deduct	-13.21	
33 42 11 00-0163	LF		36" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....	322.40	51.16
			For >1,000, Deduct	-16.12	
33 42 11 00-0164	LF		42" 400 PSI Lined Prestressed Concrete Cylinder Pipe With Regular Joints.....	376.29	56.28
			For >1,000, Deduct	-18.81	
<b>33 42 11 00-0165</b>			<b>400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular</b>		
			<b>Joints (33 42 11 00-0160)</b>		
			Note: AWWA C301		
33 42 11 00-0166	LF		48" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	507.42	62.62
			For >1,000, Deduct	-25.37	
33 42 11 00-0167	LF		54" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	609.71	82.22
			For >1,000, Deduct	-30.49	
33 42 11 00-0168	LF		60" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	702.87	95.37
			For >1,000, Deduct	-35.14	
33 42 11 00-0169	LF		66" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	791.33	105.71
			For >1,000, Deduct	-39.57	
33 42 11 00-0170	LF		72" 400 PSI Embedded Prestressed Concrete Cylinder Pipe With Regular Joints.....	958.65	115.10
			For >1,000, Deduct	-47.93	
<b>33 42 11 00-0171</b>			<b>Welded Joints For Prestressed Concrete Cylinder Pipe (33 42 11 00-0160)</b>		
			Note: All pipe joints to be exposed and dewatered. Internal joint welding also requires joints to be ventilated and air quality checked.		
33 42 11 00-0172	EA		30" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,397.70	
33 42 11 00-0173	EA		36" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,575.31	
33 42 11 00-0174	EA		42" Welded Joint For Prestressed Concrete Cylinder Pipe.....	2,664.11	
33 42 11 00-0175	EA		48" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,019.33	
33 42 11 00-0176	EA		54" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,108.13	
33 42 11 00-0177	EA		60" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,285.74	
33 42 11 00-0178	EA		66" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,374.54	
33 42 11 00-0179	EA		72" Welded Joint For Prestressed Concrete Cylinder Pipe.....	3,463.35	
33 42 11 00-0180	EA		30" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,440.19	
33 42 11 00-0181	EA		36" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	4,440.19	
33 42 11 00-0182	EA		42" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,061.81	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0183 EA 48" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,061.81	
33 42 11 00-0184 EA 54" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,417.03	
33 42 11 00-0185 EA 60" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,417.03	
33 42 11 00-0186 EA 66" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,861.05	
33 42 11 00-0187 EA 72" Internal Welded Joint For Prestressed Concrete Cylinder Pipe.....	5,861.05	
<b>33 42 11 00-0188 Quick Test Joints (33 42 11 00-0160)</b>		
33 42 11 00-0189 EA 30" Quick Test Joint.....	609.35	
33 42 11 00-0190 EA 36" Quick Test Joint.....	614.47	
33 42 11 00-0191 EA 42" Quick Test Joint.....	619.59	
33 42 11 00-0192 EA 48" Quick Test Joint.....	631.97	
33 42 11 00-0193 EA 54" Quick Test Joint.....	661.89	
33 42 11 00-0194 EA 60" Quick Test Joint.....	685.74	
33 42 11 00-0195 EA 66" Quick Test Joint.....	721.66	
33 42 11 00-0196 EA 72" Quick Test Joint.....	757.61	
<b>33 42 11 00-0197 Harnessed Joints (33 42 11 00-0160)</b>		
<b>33 42 11 00-0198 Harness Clamp Restrained Joints (33 42 11 00-0197)</b>		
33 42 11 00-0199 EA 30" Harness Clamp Restrained Joint.....	4,033.32	
33 42 11 00-0200 EA 36" Harness Clamp Restrained Joint.....	4,190.42	
33 42 11 00-0201 EA 42" Harness Clamp Restrained Joint.....	4,347.52	
33 42 11 00-0202 EA 48" Harness Clamp Restrained Joint.....	4,504.62	
33 42 11 00-0203 EA 54" Harness Clamp Restrained Joint.....	4,676.84	
33 42 11 00-0204 EA 60" Harness Clamp Restrained Joint.....	4,916.56	
33 42 11 00-0205 EA 66" Harness Clamp Restrained Joint.....	5,080.27	
33 42 11 00-0206 EA 72" Harness Clamp Restrained Joint.....	5,441.57	
<b>33 42 11 00-0207 Snap Ring Restrained Joints (33 42 11 00-0197)</b>		
33 42 11 00-0208 EA 30" Snap Ring Restrained Joint.....	689.77	
33 42 11 00-0209 EA 36" Snap Ring Restrained Joint.....	786.08	
33 42 11 00-0210 EA 42" Snap Ring Restrained Joint.....	1,049.56	
33 42 11 00-0211 EA 48" Snap Ring Restrained Joint.....	1,191.46	
33 42 11 00-0212 EA 54" Snap Ring Restrained Joint.....	1,348.49	
33 42 11 00-0213 EA 60" Snap Ring Restrained Joint.....	1,527.41	
33 42 11 00-0214 EA 66" Snap Ring Restrained Joint.....	1,691.12	
33 42 11 00-0215 EA 72" Snap Ring Restrained Joint.....	1,885.25	
<b>33 42 11 00-0216 Pipe Repairs (33 42 11 00-0160)</b>		
Note: For repair of damaged or defective lined or embedded cylinder concrete pipe. Includes 2 concrete adapters, MJDI sleeve, 20' pipe.		
<b>33 42 11 00-0217 Lined Cylinder Pipe Repair (33 42 11 00-0216)</b>		
33 42 11 00-0218 EA 30" Lined Cylinder Pipe Repair.....	7,311.07	
33 42 11 00-0219 EA 36" Lined Cylinder Pipe Repair.....	9,076.47	
33 42 11 00-0220 EA 42" Lined Cylinder Pipe Repair.....	10,094.16	
<b>33 42 11 00-0221 Embedded Cylinder Pipe Repair (33 42 11 00-0216)</b>		
Note: Field welded concrete enclosure assembly with concrete pipe.		
33 42 11 00-0222 EA 48" Embedded Cylinder Pipe Repair.....	15,133.02	
33 42 11 00-0223 EA 54" Embedded Cylinder Pipe Repair.....	17,588.05	
33 42 11 00-0224 EA 60" Embedded Cylinder Pipe Repair.....	20,060.14	
33 42 11 00-0225 EA 66" Embedded Cylinder Pipe Repair.....	22,665.69	
33 42 11 00-0226 EA 72" Embedded Cylinder Pipe Repair.....	27,305.71	
<b>33 42 11 00-0227 High Density Polyethylene (HDPE) Drainage Piping (33 42 11)</b>		
<b>33 42 11 00-0228 Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0227)</b>		
Note: Excludes couplings and gaskets.		
<b>33 42 11 00-0229 Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0228)</b>		
33 42 11 00-0230 LF 4" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	15.43	6.71
For <100, Add	2.68	
For >1,000, Deduct	-1.44	
33 42 11 00-0231 LF 6" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	20.71	7.80
For <100, Add	3.12	
For >1,000, Deduct	-1.82	
33 42 11 00-0232 LF 8" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	25.78	9.08
For <100, Add	3.63	
For >1,000, Deduct	-2.20	
33 42 11 00-0233 LF 10" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe.....	29.81	9.40
For <100, Add	3.76	
For >1,000, Deduct	-2.43	





<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Stormwater Utilities</b>	<b>33 40</b>	
<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0234 LF 12" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	31.42 3.89 -2.54	9.72
33 42 11 00-0235 LF 15" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	36.19 4.03 -2.82	10.07
33 42 11 00-0236 LF 18" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	44.80 4.17 -3.28	10.43
33 42 11 00-0237 LF 24" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	62.57 4.89 -4.35	12.23
33 42 11 00-0238 LF 30" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	89.23 6.58 -6.11	16.45
33 42 11 00-0239 LF 36" Coupled, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	117.73 8.32 -7.97	20.80
<b>33 42 11 00-0240 Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0228)</b>		
33 42 11 00-0241 LF 12" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	31.21 3.89 -2.53	9.72
33 42 11 00-0242 LF 15" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	37.03 4.03 -2.86	10.07
33 42 11 00-0243 LF 18" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	46.07 4.17 -3.35	10.43
33 42 11 00-0244 LF 24" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	64.57 4.89 -4.45	12.23
33 42 11 00-0245 LF 30" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	94.72 6.58 -6.38	16.45
33 42 11 00-0246 LF 36" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	121.81 8.32 -8.17	20.80
33 42 11 00-0247 LF 42" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	161.18 9.08 -10.33	22.69
33 42 11 00-0248 LF 48" Bell And Spigot, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe ..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	175.30 10.24 -11.33	25.60
<b>33 42 11 00-0249 Perforated, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0227)</b> Note: Excludes couplings and gaskets.		
<b>33 42 11 00-0250 Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping (33 42 11 00-0249)</b>		
33 42 11 00-0251 LF 4" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	16.48 2.68 -1.50	6.71
33 42 11 00-0252 LF 6" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	20.75 3.12 -1.82	7.80
33 42 11 00-0253 LF 8" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	25.78 3.63 -2.20	9.08
33 42 11 00-0254 LF 10" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	29.84 3.76 -2.43	9.40
33 42 11 00-0255 LF 12" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	31.42 3.89 -2.54	9.72
33 42 11 00-0256 LF 15" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	36.22 4.03 -2.82	10.07
33 42 11 00-0257 LF 18" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	44.84 4.17 -3.29	10.43
33 42 11 00-0258 LF 24" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	62.57 4.89 -4.35	12.23
33 42 11 00-0259 LF 30" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	89.58 6.58 -6.13	16.45
33 42 11 00-0260 LF 36" Coupled, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe..... <i>For &lt;100, Add</i> <i>For &gt;1,000, Deduct</i>	117.73 8.32 -7.97	20.80

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0261			<b>Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Piping</b> (33 42 11 00-0249)		
33 42 11 00-0262	LF		12" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	31.24	9.72
			For <100, Add .....	3.89	
			For >1,000, Deduct .....	-2.53	
33 42 11 00-0263	LF		15" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	37.07	10.07
			For <100, Add .....	4.03	
			For >1,000, Deduct .....	-2.86	
33 42 11 00-0264	LF		18" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	46.10	10.43
			For <100, Add .....	4.17	
			For >1,000, Deduct .....	-3.35	
33 42 11 00-0265	LF		24" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	64.57	12.23
			For <100, Add .....	4.89	
			For >1,000, Deduct .....	-4.45	
33 42 11 00-0266	LF		30" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	94.72	16.45
			For <100, Add .....	6.58	
			For >1,000, Deduct .....	-6.38	
33 42 11 00-0267	LF		36" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	121.81	20.80
			For <100, Add .....	8.32	
			For >1,000, Deduct .....	-8.17	
33 42 11 00-0268	LF		42" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	161.18	22.69
			For <100, Add .....	9.08	
			For >1,000, Deduct .....	-10.33	
33 42 11 00-0269	LF		48" Bell And Spigot, Perforated, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe .....	175.30	25.60
			For <100, Add .....	10.24	
			For >1,000, Deduct .....	-11.33	
33 42 11 00-0270			<b>Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) Pipe Fittings</b> (33 42 11 00-0227) Note: Excludes couplings and gaskets.		
33 42 11 00-0271			<b>Tees, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> (33 42 11 00-0270)		
33 42 11 00-0272	EA		4" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	74.07	26.39
33 42 11 00-0273	EA		6" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	93.42	30.79
33 42 11 00-0274	EA		8" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	152.65	37.39
33 42 11 00-0275	EA		10" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	234.44	46.20
33 42 11 00-0276	EA		12" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	372.54	55.00
33 42 11 00-0277	EA		15" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	526.64	71.86
33 42 11 00-0278	EA		18" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	758.33	96.78
33 42 11 00-0279	EA		24" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	973.96	110.47
33 42 11 00-0280	EA		30" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	1,711.28	127.59
33 42 11 00-0281	EA		36" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	2,200.25	147.38
33 42 11 00-0282	EA		42" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	3,673.07	175.97
33 42 11 00-0283	EA		48" Tee, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	4,612.06	208.98
33 42 11 00-0284			<b>Wyes, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> (33 42 11 00-0270)		
33 42 11 00-0285	EA		4" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	110.36	26.39
33 42 11 00-0286	EA		6" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	133.24	30.79
33 42 11 00-0287	EA		8" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	177.78	37.39
33 42 11 00-0288	EA		10" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	262.15	46.20
33 42 11 00-0289	EA		12" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	461.69	55.00
33 42 11 00-0290	EA		15" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	499.29	71.86
33 42 11 00-0291	EA		18" Wye, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	705.12	96.78
33 42 11 00-0292			<b>22-1/2 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> (33 42 11 00-0270)		
33 42 11 00-0293	EA		4" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	44.83	17.60
33 42 11 00-0294	EA		6" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	55.49	20.53
33 42 11 00-0295	EA		8" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	81.64	24.93
33 42 11 00-0296	EA		10" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	102.83	30.79
33 42 11 00-0297	EA		12" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	150.30	36.66
33 42 11 00-0298	EA		15" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	238.98	46.93
33 42 11 00-0299	EA		18" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	316.40	64.53
33 42 11 00-0300	EA		24" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	607.23	73.32
33 42 11 00-0301	EA		30" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	846.06	85.05
33 42 11 00-0302	EA		36" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	991.66	98.25
33 42 11 00-0303	EA		42" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	1,268.45	117.31
33 42 11 00-0304	EA		48" 22-1/2 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE) .....	1,717.44	139.32



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 42 11 00-0305	<b>45 Degree Bends, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE)</b> <small>(33 42 11 00-0270)</small>	
33 42 11 00-0306	EA 4" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	48.80 17.60
33 42 11 00-0307	EA 6" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	63.76 20.53
33 42 11 00-0308	EA 8" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	85.87 24.93
33 42 11 00-0309	EA 10" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	137.18 30.79
33 42 11 00-0310	EA 12" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	150.30 36.66
33 42 11 00-0311	EA 15" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	238.29 46.93
33 42 11 00-0312	EA 18" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	371.79 64.53
33 42 11 00-0313	EA 24" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	650.03 73.32
33 42 11 00-0314	EA 30" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	848.09 85.05
33 42 11 00-0315	EA 36" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,083.89 98.25
33 42 11 00-0316	EA 42" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	1,624.43 117.31
33 42 11 00-0317	EA 48" 45 Degree Bend, Smooth Interior, Double Wall, Corrugated High Density Polyethylene (HDPE).....	2,036.51 139.32

33 42 11 00-0318	<b>Couplings And End Caps, Corrugated High Density Polyethylene (HDPE) Pipe Fittings</b> <small>(33 42 11 00-0227)</small>	
	Note: For single and double wall high density polyethylene (HDPE) piping.	

33 42 11 00-0319	<b>Couplings, Corrugated High Density Polyethylene (HDPE) Pipe</b> <small>(33 42 11 00-0318)</small>	
33 42 11 00-0320	EA 4" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	2.37
33 42 11 00-0321	EA 6" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	4.25
33 42 11 00-0322	EA 8" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	6.54
33 42 11 00-0323	EA 10" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	8.04
33 42 11 00-0324	EA 12" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	8.65
33 42 11 00-0325	EA 15" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	12.31
33 42 11 00-0326	EA 18" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	18.22
33 42 11 00-0327	EA 24" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	29.01
33 42 11 00-0328	EA 30" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	44.53
33 42 11 00-0329	EA 36" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	58.27
33 42 11 00-0330	EA 42" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	91.60
33 42 11 00-0331	EA 48" Coupling, Corrugated High Density Polyethylene (HDPE) Pipe .....	123.89

33 42 11 00-0332	<b>Self Adhering Gaskets, Corrugated High Density Polyethylene (HDPE) Pipe</b> <small>(33 42 11 00-0318)</small>	
33 42 11 00-0333	EA 4" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	125.44
33 42 11 00-0334	EA 6" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	131.34
33 42 11 00-0335	EA 8" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	137.52
33 42 11 00-0336	EA 10" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	143.99
33 42 11 00-0337	EA 12" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	170.78
33 42 11 00-0338	EA 15" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	176.33
33 42 11 00-0339	EA 18" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	183.91
33 42 11 00-0340	EA 24" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	209.48
33 42 11 00-0341	EA 30" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	335.81
33 42 11 00-0342	EA 36" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	367.82
33 42 11 00-0343	EA 42" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	400.77
33 42 11 00-0344	EA 48" Self Adhering Gasket, Corrugated High Density Polyethylene (HDPE) Pipe.....	486.74

33 42 11 00-0345	<b>End Caps, Corrugated High Density Polyethylene (HDPE) Pipe</b> <small>(33 42 11 00-0318)</small>	
33 42 11 00-0346	EA 6" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	33.13
33 42 11 00-0347	EA 8" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	38.92
33 42 11 00-0348	EA 10" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	63.17
33 42 11 00-0349	EA 12" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	107.58
33 42 11 00-0350	EA 15" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	125.19
33 42 11 00-0351	EA 18" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	169.28
33 42 11 00-0352	EA 24" End Cap For Corrugated High Density Polyethylene (HDPE) Pipe .....	175.39

33 42 11 00-0353	<b>Vitrified Clay Piping</b> <small>(33 42 11)</small>	
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33 42 11 00-0354	<b>Extra Strength Vitrified Clay Piping</b> <small>(33 42 11 00-0353)</small>	
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33 42 11 00-0355	<b>Plain Joint, Extra Strength, Vitrified Clay Piping</b> <small>(33 42 11 00-0354)</small>	
	Note: ASTM C700.	

33 42 11 00-0356	LF 4" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	22.27
	For 3' Lengths, Add	1.83
	For 2' Lengths, Add	2.44
	For Standard Strength, Deduct	-0.61
	For >1,000, Deduct	-1.11
33 42 11 00-0357	LF 6" Plain Joint, Extra Strength, Vitrified Clay Pipe.....	37.04
	For 3' Lengths, Add	2.84
	For 2' Lengths, Add	3.79
	For Standard Strength, Deduct	-0.95
	For >1,000, Deduct	-1.85

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0358 LF 8" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	44.17	
For 3' Lengths, Add	4.07	
For 2' Lengths, Add	5.42	
For Standard Strength, Deduct	-1.36	
For >1,000, Deduct	-2.21	
33 42 11 00-0359 LF 10" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	53.08	
For 3' Lengths, Add	6.23	
For 2' Lengths, Add	8.30	
For Standard Strength, Deduct	-2.08	
For >1,000, Deduct	-2.65	
33 42 11 00-0360 LF 12" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	64.57	
For 3' Lengths, Add	8.79	
For 2' Lengths, Add	11.72	
For Standard Strength, Deduct	-2.93	
For >1,000, Deduct	-3.23	
33 42 11 00-0361 LF 15" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	94.18	
For 3' Lengths, Add	16.48	
For 2' Lengths, Add	21.98	
For Standard Strength, Deduct	-5.49	
For >1,000, Deduct	-4.71	
33 42 11 00-0362 LF 18" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	127.70	
For 3' Lengths, Add	23.63	
For 2' Lengths, Add	31.50	
For Standard Strength, Deduct	-7.88	
For >1,000, Deduct	-6.39	
33 42 11 00-0363 LF 21" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	187.89	
For 3' Lengths, Add	37.85	
For 2' Lengths, Add	50.46	
For Standard Strength, Deduct	-12.62	
For >1,000, Deduct	-9.39	
33 42 11 00-0364 LF 24" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	239.77	
For 3' Lengths, Add	49.45	
For 2' Lengths, Add	65.93	
For Standard Strength, Deduct	-16.48	
For >1,000, Deduct	-11.99	
33 42 11 00-0365 LF 30" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	296.52	
For 3' Lengths, Add	61.65	
For 2' Lengths, Add	82.20	
For Standard Strength, Deduct	-20.55	
For >1,000, Deduct	-14.83	
33 42 11 00-0366 LF 36" Plain Joint, Extra Strength, Vitrified Clay Pipe .....	358.76	
For 3' Lengths, Add	74.47	
For 2' Lengths, Add	99.30	
For Standard Strength, Deduct	-24.82	
For >1,000, Deduct	-17.94	
<b>33 42 11 00-0367 Compression Joint, Extra Strength, Vitrified Clay Piping (33 42 11 00-0354)</b>		
Note: ASTM C425.		
33 42 11 00-0368 LF 4" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	31.70	
For 3' Lengths, Add	2.16	
For 2' Lengths, Add	2.88	
For Standard Strength, Deduct	-0.72	
For >1,000, Deduct	-1.59	
33 42 11 00-0369 LF 6" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	39.32	
For 3' Lengths, Add	3.53	
For 2' Lengths, Add	4.70	
For Standard Strength, Deduct	-1.18	
For >1,000, Deduct	-1.97	
33 42 11 00-0370 LF 8" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	47.22	
For 3' Lengths, Add	4.98	
For 2' Lengths, Add	6.64	
For Standard Strength, Deduct	-1.66	
For >1,000, Deduct	-2.36	
33 42 11 00-0371 LF 10" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	59.60	
For 3' Lengths, Add	8.18	
For 2' Lengths, Add	10.91	
For Standard Strength, Deduct	-2.73	
For >1,000, Deduct	-2.98	
33 42 11 00-0372 LF 12" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	71.08	
For 3' Lengths, Add	10.74	
For 2' Lengths, Add	14.32	
For Standard Strength, Deduct	-3.58	
For >1,000, Deduct	-3.55	
33 42 11 00-0373 LF 15" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	104.56	
For 3' Lengths, Add	19.60	
For 2' Lengths, Add	26.13	
For Standard Strength, Deduct	-6.53	
For >1,000, Deduct	-5.23	
33 42 11 00-0374 LF 18" Compression Joint, Extra Strength, Vitrified Clay Pipe .....	144.58	
For 3' Lengths, Add	28.69	
For 2' Lengths, Add	38.25	
For Standard Strength, Deduct	-9.56	
For >1,000, Deduct	-7.23	



	<b>Utilities</b>	<b>33</b>	<b>CS</b>
	<b>Stormwater Utilities</b>	<b>33 40</b>	
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0375	LF		21" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	207.22	
			<i>For 3' Lengths, Add</i>	43.65	
			<i>For 2' Lengths, Add</i>	58.20	
			<i>For Standard Strength, Deduct</i>	-14.55	
			<i>For &gt;1,000, Deduct</i>	-10.36	
33 42 11 00-0376	LF		24" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	270.29	
			<i>For 3' Lengths, Add</i>	58.60	
			<i>For 2' Lengths, Add</i>	78.14	
			<i>For Standard Strength, Deduct</i>	-19.53	
			<i>For &gt;1,000, Deduct</i>	-13.51	
33 42 11 00-0377	LF		30" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	430.82	
			<i>For 3' Lengths, Add</i>	101.94	
			<i>For 2' Lengths, Add</i>	135.92	
			<i>For Standard Strength, Deduct</i>	-33.98	
			<i>For &gt;1,000, Deduct</i>	-21.54	
33 42 11 00-0378	LF		36" Compression Joint, Extra Strength, Vitrified Clay Pipe.....	611.07	
			<i>For 3' Lengths, Add</i>	150.17	
			<i>For 2' Lengths, Add</i>	200.22	
			<i>For Standard Strength, Deduct</i>	-50.06	
			<i>For &gt;1,000, Deduct</i>	-30.55	
<b>33 42 11 00-0379</b>			<b>Extra Strength, Vitrified Clay Pipe Fittings</b> (33 42 11 00-0353)		
<b>33 42 11 00-0380</b>			<b>1/8 Bends, Extra Strength, Vitrified Clay</b> (33 42 11 00-0379)		
<b>33 42 11 00-0381</b>			<b>Plain End 1/8 Bend, Extra Strength, Vitrified Clay</b> (33 42 11 00-0380)		
33 42 11 00-0382	EA		4" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	92.07	
33 42 11 00-0383	EA		6" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	123.93	
33 42 11 00-0384	EA		8" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	176.22	
33 42 11 00-0385	EA		10" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	241.97	
33 42 11 00-0386	EA		12" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	318.67	
33 42 11 00-0387	EA		15" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	753.44	
33 42 11 00-0388	EA		18" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,061.58	
33 42 11 00-0389	EA		21" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,653.87	
33 42 11 00-0390	EA		24" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	1,909.44	
33 42 11 00-0391	EA		30" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	2,218.41	
33 42 11 00-0392	EA		36" Plain End 1/8 Bend, Extra Strength, Vitrified Clay.....	3,321.88	
<b>33 42 11 00-0393</b>			<b>Compression Joint 1/8 Bends, Extra Strength, Vitrified Clay</b> (33 42 11 00-0380)		
33 42 11 00-0394	EA		4" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	104.29	
33 42 11 00-0395	EA		6" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	147.55	
33 42 11 00-0396	EA		8" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	199.10	
33 42 11 00-0397	EA		10" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	266.73	
33 42 11 00-0398	EA		12" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	337.65	
33 42 11 00-0399	EA		15" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	845.73	
33 42 11 00-0400	EA		18" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,228.69	
33 42 11 00-0401	EA		21" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	1,265.52	
33 42 11 00-0402	EA		24" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,444.24	
33 42 11 00-0403	EA		30" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	2,724.19	
33 42 11 00-0404	EA		36" Compression Joint 1/8 Bend, Extra Strength, Vitrified Clay.....	4,038.39	
<b>33 42 11 00-0405</b>			<b>1/4 Bends, Extra Strength, Vitrified Clay</b> (33 42 11 00-0379)		
<b>33 42 11 00-0406</b>			<b>Plain End 1/4 Bends, Extra Strength, Vitrified Clay</b> (33 42 11 00-0405)		
33 42 11 00-0407	EA		4" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	108.25	
33 42 11 00-0408	EA		6" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	143.41	
33 42 11 00-0409	EA		8" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	199.01	
33 42 11 00-0410	EA		10" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	267.02	
33 42 11 00-0411	EA		12" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	346.89	
33 42 11 00-0412	EA		15" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	784.83	
33 42 11 00-0413	EA		18" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,100.73	
33 42 11 00-0414	EA		21" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,703.25	
33 42 11 00-0415	EA		24" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	1,969.41	
33 42 11 00-0416	EA		30" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	2,293.18	
33 42 11 00-0417	EA		36" Plain End 1/4 Bend, Extra Strength, Vitrified Clay.....	3,405.00	
<b>33 42 11 00-0418</b>			<b>Compression Joint 1/4 Bends, Extra Strength, Vitrified Clay</b> (33 42 11 00-0405)		
33 42 11 00-0419	EA		4" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	123.69	
33 42 11 00-0420	EA		6" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	170.92	
33 42 11 00-0421	EA		8" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	226.45	
33 42 11 00-0422	EA		10" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	296.77	
33 42 11 00-0423	EA		12" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	371.50	
33 42 11 00-0424	EA		15" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	883.40	
33 42 11 00-0425	EA		18" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	1,275.68	
33 42 11 00-0426	EA		21" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,465.40	
33 42 11 00-0427	EA		24" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,516.19	
33 42 11 00-0428	EA		30" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	2,813.92	
33 42 11 00-0429	EA		36" Compression Joint 1/4 Bend, Extra Strength, Vitrified Clay.....	4,138.13	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 42 11 00-0430	Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0379)		
33 42 11 00-0431	Plain End Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0430)		
33 42 11 00-0432	EA 4" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	119.58	
33 42 11 00-0433	EA 6" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	155.57	
33 42 11 00-0434	EA 8" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay .....	210.23	
33 42 11 00-0435	EA 10" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	277.70	
33 42 11 00-0436	EA 12" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	349.75	
33 42 11 00-0437	EA 15" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	795.02	
33 42 11 00-0438	EA 18" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,110.72	
33 42 11 00-0439	EA 21" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	1,602.06	
33 42 11 00-0440	EA 24" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,226.04	
33 42 11 00-0441	EA 30" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	2,360.31	
33 42 11 00-0442	EA 36" Plain End Wyes Or Tees, Extra Strength, Vitrified Clay.....	3,385.22	
33 42 11 00-0443	Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay (33 42 11 00-0430)		
33 42 11 00-0444	EA 4" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	145.98	
33 42 11 00-0445	EA 6" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	199.13	
33 42 11 00-0446	EA 8" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	261.10	
33 42 11 00-0447	EA 10" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	337.87	
33 42 11 00-0448	EA 12" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	420.11	
33 42 11 00-0449	EA 15" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	966.87	
33 42 11 00-0450	EA 18" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	1,390.65	
33 42 11 00-0451	EA 21" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	2,060.55	
33 42 11 00-0452	EA 24" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	2,727.42	
33 42 11 00-0453	EA 30" Compression Joint Wyes Or Tees, Extra Strength, Vitrified Clay .....	3,157.41	
33 42 11 00-0454	EA 36" Compression Joint, Extra Strength, Vitrified Clay Wye Or Tee.....	4,471.59	
33 42 11 00-0455	Corrugated Metal Piping (33 42 11)		
33 42 11 00-0456	Galvanized Corrugated Steel Piping (33 42 11 00-0455)		
33 42 11 00-0457	2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0458	16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0457)		
33 42 11 00-0459	LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	36.01	10.00
	For Bituminous Coated Pipe, Add	3.69	
	For Bituminous Coated And 25% Paved, Add	7.54	
	For Smooth-Flo, Add	13.46	
33 42 11 00-0460	LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	40.70	10.48
	For Bituminous Coated Pipe, Add	4.64	
	For Bituminous Coated And 25% Paved, Add	9.49	
	For Smooth-Flo, Add	16.96	
33 42 11 00-0461	LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	45.54	11.43
	For Bituminous Coated Pipe, Add	5.62	
	For Bituminous Coated And 25% Paved, Add	11.50	
	For Smooth-Flo, Add	20.54	
33 42 11 00-0462	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	51.86	12.39
	For Bituminous Coated Pipe, Add	6.73	
	For Bituminous Coated And 25% Paved, Add	13.76	
	For Smooth-Flo, Add	24.57	
33 42 11 00-0463	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	57.40	13.33
	For Bituminous Coated Pipe, Add	7.57	
	For Bituminous Coated And 25% Paved, Add	15.48	
	For Smooth-Flo, Add	27.64	
33 42 11 00-0464	LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	75.75	17.14
	For Bituminous Coated Pipe, Add	9.82	
	For Bituminous Coated And 25% Paved, Add	20.08	
	For Smooth-Flo, Add	35.86	
33 42 11 00-0465	LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	98.93	22.51
	For Bituminous Coated Pipe, Add	12.39	
	For Bituminous Coated And 25% Paved, Add	25.33	
	For Smooth-Flo, Add	45.24	
33 42 11 00-0466	LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	112.65	26.60
	For Bituminous Coated Pipe, Add	14.66	
	For Bituminous Coated And 25% Paved, Add	29.98	
	For Smooth-Flo, Add	53.54	
33 42 11 00-0467	LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	126.59	30.70
	For Bituminous Coated Pipe, Add	16.41	
	For Bituminous Coated And 25% Paved, Add	33.58	
	For Smooth-Flo, Add	59.96	
33 42 11 00-0468	14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0457)		
33 42 11 00-0469	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	39.31	10.00
	For Bituminous Coated Pipe, Add	3.74	
	For Bituminous Coated And 25% Paved, Add	8.67	
	For Smooth-Flo, Add	17.53	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0470 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	44.75	10.48
For Bituminous Coated Pipe, Add	4.69	
For Bituminous Coated And 25% Paved, Add	10.87	
For Smooth-Flo, Add	21.98	
33 42 11 00-0471 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	50.44	11.43
For Bituminous Coated Pipe, Add	5.68	
For Bituminous Coated And 25% Paved, Add	13.16	
For Smooth-Flo, Add	26.61	
33 42 11 00-0472 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	57.53	12.39
For Bituminous Coated Pipe, Add	6.76	
For Bituminous Coated And 25% Paved, Add	15.66	
For Smooth-Flo, Add	31.65	
33 42 11 00-0473 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	63.99	13.33
For Bituminous Coated Pipe, Add	7.65	
For Bituminous Coated And 25% Paved, Add	17.72	
For Smooth-Flo, Add	35.82	
33 42 11 00-0474 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	83.79	17.14
For Bituminous Coated Pipe, Add	9.82	
For Bituminous Coated And 25% Paved, Add	22.75	
For Smooth-Flo, Add	45.99	
33 42 11 00-0475 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	108.69	22.51
For Bituminous Coated Pipe, Add	12.31	
For Bituminous Coated And 25% Paved, Add	28.52	
For Smooth-Flo, Add	57.65	
33 42 11 00-0476 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	123.82	26.60
For Bituminous Coated Pipe, Add	14.49	
For Bituminous Coated And 25% Paved, Add	33.57	
For Smooth-Flo, Add	67.86	
33 42 11 00-0477 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	139.37	30.70
For Bituminous Coated Pipe, Add	16.28	
For Bituminous Coated And 25% Paved, Add	37.73	
For Smooth-Flo, Add	76.26	
33 42 11 00-0478 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	166.55	34.79
For Bituminous Coated Pipe, Add	20.03	
For Bituminous Coated And 25% Paved, Add	46.40	
For Smooth-Flo, Add	93.79	
<b>33 42 11 00-0479 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <sup>CS</sup></b>		
<small>42 11 00-0457)</small>		
33 42 11 00-0480 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	60.59	11.43
For Bituminous Coated Pipe, Add	6.51	
For Bituminous Coated And 25% Paved, Add	11.75	
For Smooth-Flo, Add	22.59	
33 42 11 00-0481 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	69.31	12.39
For Bituminous Coated Pipe, Add	7.69	
For Bituminous Coated And 25% Paved, Add	13.89	
For Smooth-Flo, Add	26.69	
33 42 11 00-0482 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	77.42	12.39
For Bituminous Coated Pipe, Add	8.72	
For Bituminous Coated And 25% Paved, Add	15.75	
For Smooth-Flo, Add	30.26	
33 42 11 00-0483 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	100.41	17.14
For Bituminous Coated Pipe, Add	11.09	
For Bituminous Coated And 25% Paved, Add	20.03	
For Smooth-Flo, Add	38.49	
33 42 11 00-0484 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	128.40	22.51
For Bituminous Coated Pipe, Add	13.71	
For Bituminous Coated And 25% Paved, Add	24.76	
For Smooth-Flo, Add	47.58	
33 42 11 00-0485 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	146.60	26.60
For Bituminous Coated Pipe, Add	16.07	
For Bituminous Coated And 25% Paved, Add	29.01	
For Smooth-Flo, Add	55.76	
33 42 11 00-0486 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	165.48	30.70
For Bituminous Coated Pipe, Add	18.14	
For Bituminous Coated And 25% Paved, Add	32.76	
For Smooth-Flo, Add	62.96	
33 42 11 00-0487 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	195.37	34.79
For Bituminous Coated Pipe, Add	21.75	
For Bituminous Coated And 25% Paved, Add	39.28	
For Smooth-Flo, Add	75.50	
33 42 11 00-0488 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	213.60	36.83
For Bituminous Coated Pipe, Add	23.82	
For Bituminous Coated And 25% Paved, Add	43.02	
For Smooth-Flo, Add	82.68	
33 42 11 00-0489 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	258.76	45.02
For Bituminous Coated Pipe, Add	29.00	
For Bituminous Coated And 25% Paved, Add	52.37	
For Smooth-Flo, Add	100.65	
<b>33 42 11 00-0490 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Piping <sup>CS</sup></b>		
<small>42 11 00-0457)</small>		

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0491 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	146.85	22.51
For Bituminous Coated Pipe, Add	17.44	
For Bituminous Coated And 25% Paved, Add	29.14	
For Smooth-Flo, Add	41.57	
33 42 11 00-0492 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	168.19	26.60
For Bituminous Coated Pipe, Add	20.43	
For Bituminous Coated And 25% Paved, Add	34.13	
For Smooth-Flo, Add	48.70	
33 42 11 00-0493 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	189.98	30.70
For Bituminous Coated Pipe, Add	23.09	
For Bituminous Coated And 25% Paved, Add	38.58	
For Smooth-Flo, Add	55.05	
33 42 11 00-0494 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	222.82	34.79
For Bituminous Coated Pipe, Add	27.35	
For Bituminous Coated And 25% Paved, Add	45.69	
For Smooth-Flo, Add	65.19	
33 42 11 00-0495 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	244.14	36.83
For Bituminous Coated Pipe, Add	30.04	
For Bituminous Coated And 25% Paved, Add	50.18	
For Smooth-Flo, Add	71.60	
33 42 11 00-0496 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	292.33	45.02
For Bituminous Coated Pipe, Add	35.93	
For Bituminous Coated And 25% Paved, Add	60.03	
For Smooth-Flo, Add	85.65	
33 42 11 00-0497 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe.....	349.44	65.48
For Bituminous Coated Pipe, Add	38.58	
For Bituminous Coated And 25% Paved, Add	64.45	
For Smooth-Flo, Add	91.96	
<b>33 42 11 00-0498 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0456)</b>		
<b>33 42 11 00-0499 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0498)</b>		
33 42 11 00-0500 LF 36" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	115.85	22.51
For Bituminous Coated Pipe, Add	13.62	
For Bituminous Coated And 25% Paved, Add	30.92	
For Smooth-Flo, Add	61.56	
33 42 11 00-0501 LF 42" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	132.05	26.60
For Bituminous Coated Pipe, Add	15.99	
For Bituminous Coated And 25% Paved, Add	36.30	
For Smooth-Flo, Add	72.28	
33 42 11 00-0502 LF 48" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	148.45	30.70
For Bituminous Coated Pipe, Add	17.94	
For Bituminous Coated And 25% Paved, Add	40.72	
For Smooth-Flo, Add	81.08	
33 42 11 00-0503 LF 54" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	176.96	34.79
For Bituminous Coated Pipe, Add	21.91	
For Bituminous Coated And 25% Paved, Add	49.74	
For Smooth-Flo, Add	99.03	
33 42 11 00-0504 LF 60" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	192.81	36.83
For Bituminous Coated Pipe, Add	23.87	
For Bituminous Coated And 25% Paved, Add	54.18	
For Smooth-Flo, Add	107.89	
33 42 11 00-0505 LF 66" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	241.46	45.02
For Bituminous Coated Pipe, Add	30.66	
For Bituminous Coated And 25% Paved, Add	69.60	
For Smooth-Flo, Add	138.58	
33 42 11 00-0506 LF 72" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	293.63	65.48
For Bituminous Coated Pipe, Add	32.68	
For Bituminous Coated And 25% Paved, Add	74.19	
For Smooth-Flo, Add	147.72	
33 42 11 00-0507 LF 78" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	316.80	71.62
For Bituminous Coated Pipe, Add	34.71	
For Bituminous Coated And 25% Paved, Add	78.79	
For Smooth-Flo, Add	156.89	
33 42 11 00-0508 LF 84" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	337.18	76.74
For Bituminous Coated Pipe, Add	36.74	
For Bituminous Coated And 25% Paved, Add	83.40	
For Smooth-Flo, Add	166.06	
33 42 11 00-0509 LF 90" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	357.60	81.85
For Bituminous Coated Pipe, Add	38.78	
For Bituminous Coated And 25% Paved, Add	88.02	
For Smooth-Flo, Add	175.27	
33 42 11 00-0510 LF 96" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	378.67	86.97
For Bituminous Coated Pipe, Add	40.80	
For Bituminous Coated And 25% Paved, Add	92.61	
For Smooth-Flo, Add	184.40	
33 42 11 00-0511 LF 102" 16 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	402.68	92.09
For Bituminous Coated Pipe, Add	42.84	
For Bituminous Coated And 25% Paved, Add	97.25	
For Smooth-Flo, Add	193.64	
<b>33 42 11 00-0512 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0498)</b>		





<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Stormwater Utilities</b>	<b>33 40</b>	
<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0513 LF 54" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	194.23	34.79
For Bituminous Coated Pipe, Add	25.36	
For Bituminous Coated And 25% Paved, Add	49.71	
For Smooth-Flo, Add	100.44	
33 42 11 00-0514 LF 60" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	211.91	36.83
For Bituminous Coated Pipe, Add	27.69	
For Bituminous Coated And 25% Paved, Add	54.27	
For Smooth-Flo, Add	109.65	
33 42 11 00-0515 LF 66" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	262.48	45.02
For Bituminous Coated Pipe, Add	34.86	
For Bituminous Coated And 25% Paved, Add	68.33	
For Smooth-Flo, Add	138.06	
33 42 11 00-0516 LF 72" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	316.52	65.48
For Bituminous Coated Pipe, Add	37.26	
For Bituminous Coated And 25% Paved, Add	73.03	
For Smooth-Flo, Add	147.55	
33 42 11 00-0517 LF 78" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	341.53	71.62
For Bituminous Coated Pipe, Add	39.66	
For Bituminous Coated And 25% Paved, Add	77.73	
For Smooth-Flo, Add	157.04	
33 42 11 00-0518 LF 84" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	363.86	76.74
For Bituminous Coated Pipe, Add	42.08	
For Bituminous Coated And 25% Paved, Add	82.47	
For Smooth-Flo, Add	166.62	
33 42 11 00-0519 LF 90" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	386.08	81.85
For Bituminous Coated Pipe, Add	44.47	
For Bituminous Coated And 25% Paved, Add	87.17	
For Smooth-Flo, Add	176.11	
33 42 11 00-0520 LF 96" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	409.03	86.97
For Bituminous Coated Pipe, Add	46.87	
For Bituminous Coated And 25% Paved, Add	91.86	
For Smooth-Flo, Add	185.60	
33 42 11 00-0521 LF 102" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	434.88	92.09
For Bituminous Coated Pipe, Add	49.28	
For Bituminous Coated And 25% Paved, Add	96.59	
For Smooth-Flo, Add	195.15	
33 42 11 00-0522 LF 108" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	463.09	102.32
For Bituminous Coated Pipe, Add	51.69	
For Bituminous Coated And 25% Paved, Add	101.31	
For Smooth-Flo, Add	204.69	
33 42 11 00-0523 LF 114" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	490.66	112.55
For Bituminous Coated Pipe, Add	54.06	
For Bituminous Coated And 25% Paved, Add	105.95	
For Smooth-Flo, Add	214.06	
<b>33 42 11 00-0524 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-</b>		
<b>0498)</b>		
33 42 11 00-0525 LF 60" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	254.29	36.83
For Bituminous Coated Pipe, Add	36.17	
For Bituminous Coated And 25% Paved, Add	68.90	
For Smooth-Flo, Add	112.30	
33 42 11 00-0526 LF 66" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	309.41	45.02
For Bituminous Coated Pipe, Add	44.25	
For Bituminous Coated And 25% Paved, Add	84.30	
For Smooth-Flo, Add	137.40	
33 42 11 00-0527 LF 72" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	367.54	65.48
For Bituminous Coated Pipe, Add	47.46	
For Bituminous Coated And 25% Paved, Add	90.42	
For Smooth-Flo, Add	147.38	
33 42 11 00-0528 LF 78" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	396.69	71.62
For Bituminous Coated Pipe, Add	50.69	
For Bituminous Coated And 25% Paved, Add	96.56	
For Smooth-Flo, Add	157.39	
33 42 11 00-0529 LF 84" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	423.11	76.74
For Bituminous Coated Pipe, Add	53.93	
For Bituminous Coated And 25% Paved, Add	102.73	
For Smooth-Flo, Add	167.44	
33 42 11 00-0530 LF 90" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	449.47	81.85
For Bituminous Coated Pipe, Add	57.15	
For Bituminous Coated And 25% Paved, Add	108.87	
For Smooth-Flo, Add	177.45	
33 42 11 00-0531 LF 96" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	476.59	86.97
For Bituminous Coated Pipe, Add	60.38	
For Bituminous Coated And 25% Paved, Add	115.02	
For Smooth-Flo, Add	187.48	
33 42 11 00-0532 LF 102" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	506.57	92.09
For Bituminous Coated Pipe, Add	63.62	
For Bituminous Coated And 25% Paved, Add	121.19	
For Smooth-Flo, Add	197.53	
33 42 11 00-0533 LF 108" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	538.85	102.32
For Bituminous Coated Pipe, Add	66.84	
For Bituminous Coated And 25% Paved, Add	127.33	
For Smooth-Flo, Add	207.54	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0534 LF 114" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	570.59	112.55
For Bituminous Coated Pipe, Add	70.04	
For Bituminous Coated And 25% Paved, Add	133.43	
For Smooth-Flo, Add	217.48	
33 42 11 00-0535 LF 120" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	601.23	122.78
For Bituminous Coated Pipe, Add	73.28	
For Bituminous Coated And 25% Paved, Add	139.60	
For Smooth-Flo, Add	227.53	
<b>33 42 11 00-0536 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Piping</b> (33 42 11 00-0498)		
33 42 11 00-0537 LF 72" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	415.12	65.48
For Bituminous Coated Pipe, Add	56.98	
For Bituminous Coated And 25% Paved, Add	108.26	
For Smooth-Flo, Add	144.73	
33 42 11 00-0538 LF 78" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	448.17	71.62
For Bituminous Coated Pipe, Add	60.98	
For Bituminous Coated And 25% Paved, Add	115.87	
For Smooth-Flo, Add	154.90	
33 42 11 00-0539 LF 84" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	478.50	76.74
For Bituminous Coated Pipe, Add	65.00	
For Bituminous Coated And 25% Paved, Add	123.51	
For Smooth-Flo, Add	165.11	
33 42 11 00-0540 LF 90" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	508.76	81.85
For Bituminous Coated Pipe, Add	69.01	
For Bituminous Coated And 25% Paved, Add	131.12	
For Smooth-Flo, Add	175.28	
33 42 11 00-0541 LF 96" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	539.79	86.97
For Bituminous Coated Pipe, Add	73.02	
For Bituminous Coated And 25% Paved, Add	138.74	
For Smooth-Flo, Add	185.47	
33 42 11 00-0542 LF 102" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	573.67	92.09
For Bituminous Coated Pipe, Add	77.04	
For Bituminous Coated And 25% Paved, Add	146.37	
For Smooth-Flo, Add	195.68	
33 42 11 00-0543 LF 108" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	609.85	102.32
For Bituminous Coated Pipe, Add	81.04	
For Bituminous Coated And 25% Paved, Add	153.98	
For Smooth-Flo, Add	205.85	
33 42 11 00-0544 LF 114" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	645.46	112.55
For Bituminous Coated Pipe, Add	85.02	
For Bituminous Coated And 25% Paved, Add	161.53	
For Smooth-Flo, Add	215.94	
33 42 11 00-0545 LF 120" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	680.04	122.78
For Bituminous Coated Pipe, Add	89.04	
For Bituminous Coated And 25% Paved, Add	169.18	
For Smooth-Flo, Add	226.17	
33 42 11 00-0546 LF 126" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	716.46	133.02
For Bituminous Coated Pipe, Add	93.03	
For Bituminous Coated And 25% Paved, Add	176.76	
For Smooth-Flo, Add	236.30	
33 42 11 00-0547 LF 132" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	755.53	143.25
For Bituminous Coated Pipe, Add	97.05	
For Bituminous Coated And 25% Paved, Add	184.40	
For Smooth-Flo, Add	246.51	
33 42 11 00-0548 LF 138" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe.....	797.72	153.48
For Bituminous Coated Pipe, Add	101.08	
For Bituminous Coated And 25% Paved, Add	192.04	
For Smooth-Flo, Add	256.73	
<b>33 42 11 00-0549 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b> (33 42 11 00-0456)		
<b>33 42 11 00-0550 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b> (33 42 11 00-0549)		
33 42 11 00-0551 LF 48" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	148.94	30.70
For Bituminous Coated Pipe, Add	22.55	
For Bituminous Coated And 25% Paved, Add	51.40	
For Smooth-Flo, Add	81.61	
33 42 11 00-0552 LF 54" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	177.92	34.79
For Bituminous Coated Pipe, Add	27.63	
For Bituminous Coated And 25% Paved, Add	62.99	
For Smooth-Flo, Add	100.01	
33 42 11 00-0553 LF 60" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	193.65	36.83
For Bituminous Coated Pipe, Add	30.05	
For Bituminous Coated And 25% Paved, Add	68.51	
For Smooth-Flo, Add	108.77	
33 42 11 00-0554 LF 66" 16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	239.47	45.02
For Bituminous Coated Pipe, Add	37.83	
For Bituminous Coated And 25% Paved, Add	86.25	
For Smooth-Flo, Add	136.94	



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0555	LF	72"	16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	291.41 40.30 91.88 145.88	65.48
33 42 11 00-0556	LF	78"	16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	314.28 42.76 97.49 154.78	71.62
33 42 11 00-0557	LF	84"	16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	334.31 45.21 103.07 163.65	76.74
33 42 11 00-0558	LF	90"	16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	354.31 47.65 108.64 172.48	81.85
33 42 11 00-0559	LF	96"	16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	375.19 50.13 114.29 181.45	86.97
33 42 11 00-0560	LF	102"	16 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	399.12 52.66 120.06 190.63	92.09
<b>33 42 11 00-0561</b>			<b>14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0549)</small>		
33 42 11 00-0562	LF	54"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	199.51 26.42 62.09 112.42	34.79
33 42 11 00-0563	LF	60"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	217.65 28.84 67.77 122.71	36.83
33 42 11 00-0564	LF	66"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	265.66 35.50 83.43 151.05	45.02
33 42 11 00-0565	LF	72"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	319.70 37.90 89.06 161.25	65.48
33 42 11 00-0566	LF	78"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	345.13 40.38 94.88 171.80	71.62
33 42 11 00-0567	LF	84"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	367.57 42.82 100.62 182.19	76.74
33 42 11 00-0568	LF	90"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	388.76 45.01 105.77 191.51	81.85
33 42 11 00-0569	LF	96"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	413.12 47.69 112.06 202.90	86.97
33 42 11 00-0570	LF	102"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	439.09 50.12 117.79 213.27	92.09
33 42 11 00-0571	LF	108"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	467.30 52.53 123.45 223.52	102.32
33 42 11 00-0572	LF	114"	14 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	495.41 55.01 129.26 234.05	112.55
<b>33 42 11 00-0573</b>			<b>12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Piping</b> <small>(33 42 11 00-0549)</small>		
33 42 11 00-0574	LF	60"	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	262.59 37.83 71.87 129.74	36.83
33 42 11 00-0575	LF	66"	12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	315.15 45.40 86.26 155.72	45.02

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0576 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	373.90	65.48
For Bituminous Coated Pipe, Add	48.74	
For Bituminous Coated And 25% Paved, Add	92.60	
For Smooth-Flo, Add	167.16	
33 42 11 00-0577 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	403.50	71.62
For Bituminous Coated Pipe, Add	52.05	
For Bituminous Coated And 25% Paved, Add	98.90	
For Smooth-Flo, Add	178.53	
33 42 11 00-0578 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	430.15	76.74
For Bituminous Coated Pipe, Add	55.33	
For Bituminous Coated And 25% Paved, Add	105.13	
For Smooth-Flo, Add	189.80	
33 42 11 00-0579 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	457.04	81.85
For Bituminous Coated Pipe, Add	58.66	
For Bituminous Coated And 25% Paved, Add	111.46	
For Smooth-Flo, Add	201.22	
33 42 11 00-0580 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	484.55	86.97
For Bituminous Coated Pipe, Add	61.97	
For Bituminous Coated And 25% Paved, Add	117.75	
For Smooth-Flo, Add	212.56	
33 42 11 00-0581 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	514.84	92.09
For Bituminous Coated Pipe, Add	65.27	
For Bituminous Coated And 25% Paved, Add	124.02	
For Smooth-Flo, Add	223.88	
33 42 11 00-0582 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	547.65	102.32
For Bituminous Coated Pipe, Add	68.60	
For Bituminous Coated And 25% Paved, Add	130.34	
For Smooth-Flo, Add	235.30	
33 42 11 00-0583 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	579.93	112.55
For Bituminous Coated Pipe, Add	71.91	
For Bituminous Coated And 25% Paved, Add	136.63	
For Smooth-Flo, Add	246.65	
33 42 11 00-0584 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	610.91	122.78
For Bituminous Coated Pipe, Add	75.22	
For Bituminous Coated And 25% Paved, Add	142.91	
For Smooth-Flo, Add	257.99	
<b>33 42 11 00-0585 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel</b>		
<b>Piping</b> <small>(33 42 11 00-0549)</small>		
33 42 11 00-0586 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	425.80	65.48
For Bituminous Coated Pipe, Add	59.12	
For Bituminous Coated And 25% Paved, Add	112.32	
For Smooth-Flo, Add	176.46	
33 42 11 00-0587 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	460.23	71.62
For Bituminous Coated Pipe, Add	63.40	
For Bituminous Coated And 25% Paved, Add	120.45	
For Smooth-Flo, Add	189.24	
33 42 11 00-0588 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	491.40	76.74
For Bituminous Coated Pipe, Add	67.58	
For Bituminous Coated And 25% Paved, Add	128.41	
For Smooth-Flo, Add	201.74	
33 42 11 00-0589 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	522.38	81.85
For Bituminous Coated Pipe, Add	71.73	
For Bituminous Coated And 25% Paved, Add	136.29	
For Smooth-Flo, Add	214.12	
33 42 11 00-0590 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	554.33	86.97
For Bituminous Coated Pipe, Add	75.93	
For Bituminous Coated And 25% Paved, Add	144.26	
For Smooth-Flo, Add	226.65	
33 42 11 00-0591 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	588.91	92.09
For Bituminous Coated Pipe, Add	80.09	
For Bituminous Coated And 25% Paved, Add	152.16	
For Smooth-Flo, Add	239.06	
33 42 11 00-0592 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	626.00	102.32
For Bituminous Coated Pipe, Add	84.27	
For Bituminous Coated And 25% Paved, Add	160.12	
For Smooth-Flo, Add	251.55	
33 42 11 00-0593 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	662.64	112.55
For Bituminous Coated Pipe, Add	88.45	
For Bituminous Coated And 25% Paved, Add	168.06	
For Smooth-Flo, Add	264.03	
33 42 11 00-0594 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	697.88	122.78
For Bituminous Coated Pipe, Add	92.61	
For Bituminous Coated And 25% Paved, Add	175.96	
For Smooth-Flo, Add	276.44	
33 42 11 00-0595 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	741.80	133.02
For Bituminous Coated Pipe, Add	98.10	
For Bituminous Coated And 25% Paved, Add	186.39	
For Smooth-Flo, Add	292.82	
33 42 11 00-0596 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe.....	783.40	143.25
For Bituminous Coated Pipe, Add	102.62	
For Bituminous Coated And 25% Paved, Add	194.99	
For Smooth-Flo, Add	306.33	



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0597	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe .....	828.96	153.48
			<i>For Bituminous Coated Pipe, Add</i>	107.32	
			<i>For Bituminous Coated And 25% Paved, Add</i>	203.92	
			<i>For Smooth-Flo, Add</i>	320.36	
<b>33 42 11 00-0598</b>			<b>Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0456)</b>		
<b>33 42 11 00-0599</b>			<b>16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)</b>		
33 42 11 00-0600	LF		18" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	52.13	11.43
			<i>For Bituminous Coated Pipe, Add</i>	6.95	
33 42 11 00-0601	LF		21" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	59.59	12.39
			<i>For Bituminous Coated Pipe, Add</i>	8.28	
33 42 11 00-0602	LF		24" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	66.47	13.33
			<i>For Bituminous Coated Pipe, Add</i>	9.40	
33 42 11 00-0603	LF		30" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	87.16	17.14
			<i>For Bituminous Coated Pipe, Add</i>	12.11	
33 42 11 00-0604	LF		36" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	112.90	22.51
			<i>For Bituminous Coated Pipe, Add</i>	15.18	
33 42 11 00-0605	LF		42" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	128.91	26.60
			<i>For Bituminous Coated Pipe, Add</i>	17.90	
33 42 11 00-0606	LF		48" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	145.23	30.70
			<i>For Bituminous Coated Pipe, Add</i>	20.15	
33 42 11 00-0607	LF		54" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	173.33	34.79
			<i>For Bituminous Coated Pipe, Add</i>	24.68	
33 42 11 00-0608	LF		60" 16 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	189.10	36.83
			<i>For Bituminous Coated Pipe, Add</i>	26.94	
<b>33 42 11 00-0609</b>			<b>14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)</b>		
33 42 11 00-0610	LF		18" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	57.10	11.43
			<i>For Bituminous Coated Pipe, Add</i>	8.04	
33 42 11 00-0611	LF		21" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	65.41	12.39
			<i>For Bituminous Coated Pipe, Add</i>	9.55	
33 42 11 00-0612	LF		24" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	73.10	13.33
			<i>For Bituminous Coated Pipe, Add</i>	10.85	
33 42 11 00-0613	LF		30" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	95.39	17.14
			<i>For Bituminous Coated Pipe, Add</i>	13.91	
33 42 11 00-0614	LF		36" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	122.81	22.51
			<i>For Bituminous Coated Pipe, Add</i>	17.34	
33 42 11 00-0615	LF		42" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	140.51	26.60
			<i>For Bituminous Coated Pipe, Add</i>	20.43	
33 42 11 00-0616	LF		48" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	158.47	30.70
			<i>For Bituminous Coated Pipe, Add</i>	23.03	
33 42 11 00-0617	LF		54" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	188.22	34.79
			<i>For Bituminous Coated Pipe, Add</i>	27.91	
33 42 11 00-0618	LF		60" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	205.67	36.83
			<i>For Bituminous Coated Pipe, Add</i>	30.54	
33 42 11 00-0619	LF		66" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	252.41	45.02
			<i>For Bituminous Coated Pipe, Add</i>	37.94	
33 42 11 00-0620	LF		72" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	305.72	65.48
			<i>For Bituminous Coated Pipe, Add</i>	40.54	
33 42 11 00-0621	LF		78" 14 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	330.20	71.62
			<i>For Bituminous Coated Pipe, Add</i>	43.19	
<b>33 42 11 00-0622</b>			<b>12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Piping (33 42 11 00-0598)</b>		
33 42 11 00-0623	LF		30" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	112.08	17.14
			<i>For Bituminous Coated Pipe, Add</i>	14.53	
33 42 11 00-0624	LF		36" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	142.76	22.51
			<i>For Bituminous Coated Pipe, Add</i>	17.96	
33 42 11 00-0625	LF		42" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	163.86	26.60
			<i>For Bituminous Coated Pipe, Add</i>	21.12	
33 42 11 00-0626	LF		48" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	185.12	30.70
			<i>For Bituminous Coated Pipe, Add</i>	23.88	
33 42 11 00-0627	LF		54" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	218.23	34.79
			<i>For Bituminous Coated Pipe, Add</i>	28.50	
33 42 11 00-0628	LF		60" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	239.05	36.83
			<i>For Bituminous Coated Pipe, Add</i>	31.30	
33 42 11 00-0629	LF		66" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	289.04	45.02
			<i>For Bituminous Coated Pipe, Add</i>	37.97	
33 42 11 00-0630	LF		72" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	345.65	65.48
			<i>For Bituminous Coated Pipe, Add</i>	40.72	
33 42 11 00-0631	LF		78" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	373.42	71.62
			<i>For Bituminous Coated Pipe, Add</i>	43.50	
33 42 11 00-0632	LF		84" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	398.31	76.74
			<i>For Bituminous Coated Pipe, Add</i>	46.27	
33 42 11 00-0633	LF		90" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	423.17	81.85
			<i>For Bituminous Coated Pipe, Add</i>	49.04	
33 42 11 00-0634	LF		96" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	448.76	86.97
			<i>For Bituminous Coated Pipe, Add</i>	51.80	
33 42 11 00-0635	LF		102" 12 Gauge, Helical Ribbed, Galvanized Corrugated Steel Pipe.....	475.56	92.09
			<i>For Bituminous Coated Pipe, Add</i>	54.26	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0636 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0637 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0636)		
33 42 11 00-0638 LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	18.68	5.71
For Bituminous Coated Pipe, Add	1.78	
33 42 11 00-0639 LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	20.16	5.71
For Bituminous Coated Pipe, Add	2.14	
33 42 11 00-0640 LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	23.45	7.15
For Bituminous Coated Pipe, Add	2.35	
33 42 11 00-0641 LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	25.33	7.15
For Bituminous Coated Pipe, Add	2.81	
33 42 11 00-0642 LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	29.63	8.58
For Bituminous Coated Pipe, Add	2.95	
33 42 11 00-0643 LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	32.01	8.58
For Bituminous Coated Pipe, Add	3.54	
33 42 11 00-0644 Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Piping (33 42 11 00-0636)		
33 42 11 00-0645 LF 6" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	18.88	5.71
For Bituminous Coated Pipe, Add	1.75	
33 42 11 00-0646 LF 6" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	20.32	5.71
For Bituminous Coated Pipe, Add	2.09	
33 42 11 00-0647 LF 8" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	23.66	7.15
For Bituminous Coated Pipe, Add	2.30	
33 42 11 00-0648 LF 8" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	25.65	7.15
For Bituminous Coated Pipe, Add	2.77	
33 42 11 00-0649 LF 10" 18 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	29.98	8.58
For Bituminous Coated Pipe, Add	2.91	
33 42 11 00-0650 LF 10" 16 Gauge, Perforated, 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	32.43	8.58
For Bituminous Coated Pipe, Add	3.49	
33 42 11 00-0651 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe Fittings (33 42 11 00-0636)		
33 42 11 00-0652 EA 6" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	10.97	
For Bituminous Coated Pipe, Add	2.47	
33 42 11 00-0653 EA 8" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	14.52	
For Bituminous Coated Pipe, Add	3.27	
33 42 11 00-0654 EA 10" 18 Gauge, Connection Band For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	17.80	
For Bituminous Coated Pipe, Add	4.01	
33 42 11 00-0655 EA 6" 18 Gauge, Band Elbows For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	39.55	
For Bituminous Coated Pipe, Add	5.46	
33 42 11 00-0656 EA 6" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	8.87	
For Bituminous Coated Pipe, Add	1.24	
33 42 11 00-0657 EA 8" End Caps For 1-1/2" x 1/4" Corrugation, Galvanized Corrugated Steel Pipe.....	11.22	
For Bituminous Coated Pipe, Add	1.87	
33 42 11 00-0658 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0456)		
33 42 11 00-0659 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0658)		
33 42 11 00-0660 LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	57.78	10.00
33 42 11 00-0661 LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	68.13	10.48
33 42 11 00-0662 LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	78.81	11.43
33 42 11 00-0663 LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	91.61	12.39
33 42 11 00-0664 LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	102.20	13.33
33 42 11 00-0665 LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	133.78	17.14
33 42 11 00-0666 LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	172.20	22.51
33 42 11 00-0667 LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	199.31	26.60
33 42 11 00-0668 LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	223.69	30.70
33 42 11 00-0669 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0658)		
33 42 11 00-0670 LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	65.79	10.00
33 42 11 00-0671 LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	78.05	10.48
33 42 11 00-0672 LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	90.69	11.43
33 42 11 00-0673 LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	105.37	12.39
33 42 11 00-0674 LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	118.18	13.33
33 42 11 00-0675 LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	153.40	17.14
33 42 11 00-0676 LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	195.89	22.51
33 42 11 00-0677 LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	226.49	26.60
33 42 11 00-0678 LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	254.71	30.70
33 42 11 00-0679 LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	308.42	34.79
33 42 11 00-0680 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping (33 42 11 00-0658)		
33 42 11 00-0681 LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	115.46	11.43
33 42 11 00-0682 LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	134.29	12.39
33 42 11 00-0683 LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....	151.06	13.33



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 42 11 00-0684 LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		194.48	17.14
	33 42 11 00-0685 LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		235.11	22.51
	33 42 11 00-0686 LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		283.96	26.60
	33 42 11 00-0687 LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		329.29	30.70
	33 42 11 00-0688 LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		383.25	34.79
	33 42 11 00-0689 LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		418.79	36.83
	33 42 11 00-0690 LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		512.91	45.02
<b>33 42 11 00-0691</b>	<b>10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Piping <sup>(33 42 11 00-0658)</sup></b>			
	33 42 11 00-0692 LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		290.21	22.51
	33 42 11 00-0693 LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		336.30	26.60
	33 42 11 00-0694 LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		379.75	30.70
	33 42 11 00-0695 LF 54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		449.86	34.79
	33 42 11 00-0696 LF 60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		492.94	36.83
	33 42 11 00-0697 LF 66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		594.35	45.02
	33 42 11 00-0698 LF 72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe.....		672.93	65.48
<b>33 42 11 00-0699</b>	<b>3" x 1" Corrugation, Polymeric Corrugated Steel Piping <sup>(33 42 11 00-0456)</sup></b>			
<b>33 42 11 00-0700</b>	<b>16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <sup>(33 42 11 00-0699)</sup></b>			
	33 42 11 00-0701 LF 36" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		217.68	22.51
	33 42 11 00-0702 LF 42" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		251.75	26.60
	33 42 11 00-0703 LF 48" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		282.48	30.70
	33 42 11 00-0704 LF 54" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		341.86	34.79
	33 42 11 00-0705 LF 60" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		372.23	36.83
	33 42 11 00-0706 LF 66" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		473.93	45.02
	33 42 11 00-0707 LF 72" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		541.11	65.48
	33 42 11 00-0708 LF 78" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		579.23	71.62
	33 42 11 00-0709 LF 84" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		614.65	76.74
	33 42 11 00-0710 LF 90" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		650.11	81.85
	33 42 11 00-0711 LF 96" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		686.17	86.97
	33 42 11 00-0712 LF 102" 16 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		725.28	92.09
<b>33 42 11 00-0713</b>	<b>14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <sup>(33 42 11 00-0699)</sup></b>			
	33 42 11 00-0714 LF 54" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		384.68	34.79
	33 42 11 00-0715 LF 60" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		419.56	36.83
	33 42 11 00-0716 LF 66" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		526.07	45.02
	33 42 11 00-0717 LF 72" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		597.81	65.48
	33 42 11 00-0718 LF 78" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		640.57	71.62
	33 42 11 00-0719 LF 84" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		680.79	76.74
	33 42 11 00-0720 LF 90" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		720.75	81.85
	33 42 11 00-0721 LF 96" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		761.41	86.97
	33 42 11 00-0722 LF 102" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		805.19	92.09
	33 42 11 00-0723 LF 108" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		851.22	102.32
	33 42 11 00-0724 LF 114" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		896.28	112.55
<b>33 42 11 00-0725</b>	<b>12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <sup>(33 42 11 00-0699)</sup></b>			
	33 42 11 00-0726 LF 60" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		527.26	36.83
	33 42 11 00-0727 LF 66" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		645.87	45.02
	33 42 11 00-0728 LF 72" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		728.00	65.48
	33 42 11 00-0729 LF 78" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		781.20	71.62
	33 42 11 00-0730 LF 84" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		831.80	76.74
	33 42 11 00-0731 LF 90" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		882.21	81.85
	33 42 11 00-0732 LF 96" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		933.40	86.97
	33 42 11 00-0733 LF 102" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		987.55	92.09
	33 42 11 00-0734 LF 108" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,043.88	102.32
	33 42 11 00-0735 LF 114" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,099.53	112.55
	33 42 11 00-0736 LF 120" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,154.36	122.78
<b>33 42 11 00-0737</b>	<b>10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Piping <sup>(33 42 11 00-0699)</sup></b>			
	33 42 11 00-0738 LF 72" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		846.63	65.48
	33 42 11 00-0739 LF 78" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		909.49	71.62
	33 42 11 00-0740 LF 84" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		969.85	76.74
	33 42 11 00-0741 LF 90" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,029.95	81.85
	33 42 11 00-0742 LF 96" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,090.91	86.97
	33 42 11 00-0743 LF 102" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,154.79	92.09
	33 42 11 00-0744 LF 108" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,220.87	102.32
	33 42 11 00-0745 LF 114" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,286.20	112.55
	33 42 11 00-0746 LF 120" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,350.76	122.78
	33 42 11 00-0747 LF 126" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,416.98	133.02
	33 42 11 00-0748 LF 132" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,486.04	143.25
	33 42 11 00-0749 LF 138" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe.....		1,558.25	153.48
<b>33 42 11 00-0750</b>	<b>125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping <sup>(33 42 11 00-0456)</sup></b>			

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0751			<b>16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Piping</b> <small>(33 42 11 00-0750)</small>		
33 42 11 00-0752	LF		48" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	273.25	30.70
33 42 11 00-0753	LF		54" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	331.69	34.79
33 42 11 00-0754	LF		60" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	360.59	36.83
33 42 11 00-0755	LF		66" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	452.30	45.02
33 42 11 00-0756	LF		72" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	517.70	65.48
33 42 11 00-0757	LF		78" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	553.98	71.62
33 42 11 00-0758	LF		84" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	587.31	76.74
33 42 11 00-0759	LF		90" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	620.56	81.85
33 42 11 00-0760	LF		96" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	654.89	86.97
33 42 11 00-0761	LF		102" 16 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	692.71	92.09
33 42 11 00-0762			<b>14 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping</b> <small>(33 42 11 00-0750)</small>		
33 42 11 00-0763	LF		54" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	382.56	34.79
33 42 11 00-0764	LF		60" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	417.24	36.83
33 42 11 00-0765	LF		66" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	514.08	45.02
33 42 11 00-0766	LF		72" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	584.46	65.48
33 42 11 00-0767	LF		78" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	626.78	71.62
33 42 11 00-0768	LF		84" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	665.77	76.74
33 42 11 00-0769	LF		90" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	701.87	81.85
33 42 11 00-0770	LF		96" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	744.44	86.97
33 42 11 00-0771	LF		102" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	787.00	92.09
33 42 11 00-0772	LF		108" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	831.58	102.32
33 42 11 00-0773	LF		114" 14 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	876.50	112.55
33 42 11 00-0774			<b>12 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping</b> <small>(33 42 11 00-0750)</small>		
33 42 11 00-0775	LF		60" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	530.79	36.83
33 42 11 00-0776	LF		66" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	639.71	45.02
33 42 11 00-0777	LF		72" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	721.95	65.48
33 42 11 00-0778	LF		78" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	774.70	71.62
33 42 11 00-0779	LF		84" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	824.35	76.74
33 42 11 00-0780	LF		90" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	874.62	81.85
33 42 11 00-0781	LF		96" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	925.31	86.97
33 42 11 00-0782	LF		102" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	978.66	92.09
33 42 11 00-0783	LF		108" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,034.84	102.32
33 42 11 00-0784	LF		114" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,090.30	112.55
33 42 11 00-0785	LF		120" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,144.44	122.78
33 42 11 00-0786			<b>10 Gauge, 125mm x 25mm Corrugation, Polymeric Corrugated Steel Piping</b> <small>(33 42 11 00-0750)</small>		
33 42 11 00-0787	LF		72" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	846.58	65.48
33 42 11 00-0788	LF		78" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	910.92	71.62
33 42 11 00-0789	LF		84" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	971.48	76.74
33 42 11 00-0790	LF		90" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,031.56	81.85
33 42 11 00-0791	LF		96" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,092.81	86.97
33 42 11 00-0792	LF		102" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,156.58	92.09
33 42 11 00-0793	LF		108" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,222.95	102.32
33 42 11 00-0794	LF		114" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,288.87	112.55
33 42 11 00-0795	LF		120" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,353.29	122.78
33 42 11 00-0796	LF		126" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,435.64	133.02
33 42 11 00-0797	LF		132" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,508.97	143.25
33 42 11 00-0798	LF		138" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe.....	1,587.44	153.48
33 42 11 00-0799			<b>Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0455)</small>		
33 42 11 00-0800			<b>2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0799)</small>		
33 42 11 00-0801			<b>16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0800)</small>		
33 42 11 00-0802	LF		17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	41.81	10.48
			For Bituminous Coated Pipe, Add	5.05	
			For Bituminous Coated And 25% Paved, Add	12.21	
			For Smooth-Flo, Add	20.15	
33 42 11 00-0803	LF		21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	46.54	11.43
			For Bituminous Coated Pipe, Add	6.03	
			For Bituminous Coated And 25% Paved, Add	14.59	
			For Smooth-Flo, Add	24.06	
33 42 11 00-0804	LF		24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch .....	53.24	12.39
			For Bituminous Coated Pipe, Add	7.26	
			For Bituminous Coated And 25% Paved, Add	17.56	
			For Smooth-Flo, Add	28.97	





	<b>Utilities</b>	<b>33</b>	<b>CS</b>
	<b>Stormwater Utilities</b>	<b>33 40</b>	
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0805	LF		28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	59.74 8.37 20.23 33.37	13.33
33 42 11 00-0806	LF		35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	77.86 10.63 25.69 42.38	17.14
33 42 11 00-0807	LF		42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	102.79 13.70 33.13 54.65	22.51
<b>33 42 11 00-0808</b>			<b>14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0800)</small>		
33 42 11 00-0809	LF		17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	45.90 5.24 12.26 20.11	10.48
33 42 11 00-0810	LF		21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	51.55 6.29 14.71 24.12	11.43
33 42 11 00-0811	LF		24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	58.83 7.47 17.48 28.68	12.39
33 42 11 00-0812	LF		28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	66.21 8.62 20.16 33.07	13.33
33 42 11 00-0813	LF		35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	85.94 10.91 25.53 41.88	17.14
33 42 11 00-0814	LF		42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	112.40 13.90 32.52 53.34	22.51
33 42 11 00-0815	LF		49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	129.11 16.56 38.74 63.54	26.60
<b>33 42 11 00-0816</b>			<b>12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0800)</small>		
33 42 11 00-0817	LF		21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	67.26 6.80 15.13 23.27	12.28
33 42 11 00-0818	LF		24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	76.78 8.07 17.95 27.60	13.31
33 42 11 00-0819	LF		28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	86.22 9.25 20.59 31.65	14.32
33 42 11 00-0820	LF		35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	111.40 11.65 25.92 39.86	18.42
33 42 11 00-0821	LF		42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	132.00 14.58 32.44 49.88	22.51
33 42 11 00-0822	LF		49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	151.73 17.24 38.36 58.99	26.60
33 42 11 00-0823	LF		57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	176.92 20.44 45.49 69.95	30.70
33 42 11 00-0824	LF		64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	197.90 22.57 50.24 77.25	34.79
<b>33 42 11 00-0825</b>			<b>10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0800)</small>		

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0826 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	150.45 17.56 36.97 46.63	22.51
33 42 11 00-0827 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	173.24 20.72 43.61 55.00	26.60
33 42 11 00-0828 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	201.31 24.38 51.32 64.72	30.70
33 42 11 00-0829 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	225.46 27.03 56.90 71.75	34.79
33 42 11 00-0830 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	246.97 29.67 62.46 78.77	36.83
<b>33 42 11 00-0831 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0799)</small>		
<b>33 42 11 00-0832 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0831)</small>		
33 42 11 00-0833 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	197.63 26.04 79.17 88.55	34.79
33 42 11 00-0834 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	215.97 28.50 86.65 96.91	36.83
33 42 11 00-0835 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	267.15 35.80 108.83 121.71	45.02
33 42 11 00-0836 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	322.11 38.38 116.67 130.49	65.48
33 42 11 00-0837 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	348.69 41.09 124.91 139.70	71.62
33 42 11 00-0838 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	372.54 43.81 133.19 148.96	76.74
33 42 11 00-0839 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	396.34 46.52 141.43 158.18	81.85
33 42 11 00-0840 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	420.82 49.23 149.65 167.37	86.97
<b>33 42 11 00-0841 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0831)</small>		
33 42 11 00-0842 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	258.38 36.98 96.90 114.65	36.83
33 42 11 00-0843 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	314.19 45.21 118.44 140.14	45.02
33 42 11 00-0844 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	373.32 48.62 127.38 150.72	65.48
33 42 11 00-0845 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	404.04 52.16 136.65 161.69	71.62
33 42 11 00-0846 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	432.03 55.71 145.96 172.70	76.74
33 42 11 00-0847 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch ..... <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	459.99 59.25 155.25 183.69	81.85



	<b>Utilities</b>	<b>33</b>	<b>CS</b>
	<b>Stormwater Utilities</b>	<b>33 40</b>	
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0848	LF		112" x 75" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	488.61 62.78 164.49 194.63	86.97
33 42 11 00-0849	LF		117" x 79" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	520.24 66.35 173.84 205.69	92.09
33 42 11 00-0850	LF		128" x 83" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	554.12 69.90 183.13 216.68	102.32
33 42 11 00-0851	LF		137" x 87" 12 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	589.34 73.79 193.34 228.76	112.55
<b>33 42 11 00-0852</b>			<b>10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0831)</small>		
33 42 11 00-0853	LF		81" x 59" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	420.90 58.14 138.36 150.28	65.48
33 42 11 00-0854	LF		87" x 63" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	455.56 62.46 148.66 161.46	71.62
33 42 11 00-0855	LF		95" x 67" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	487.46 66.80 158.97 172.67	76.74
33 42 11 00-0856	LF		103" x 71" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	519.25 71.11 169.23 183.81	81.85
33 42 11 00-0857	LF		112" x 75" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	551.80 75.42 179.50 194.97	86.97
33 42 11 00-0858	LF		117" x 79" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	587.30 79.76 189.84 206.19	92.09
33 42 11 00-0859	LF		128" x 83" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	625.09 84.09 200.13 217.37	102.32
33 42 11 00-0860	LF		137" x 87" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	663.91 88.71 211.12 229.31	112.55
33 42 11 00-0861	LF		142" x 91" 10 Gauge, 3" x 1" Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	706.07 94.25 224.31 243.63	122.78
<b>33 42 11 00-0862</b>			<b>125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0799)</small>		
<b>33 42 11 00-0863</b>			<b>12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0862)</small>		
33 42 11 00-0864	LF		81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	377.99 49.55 120.91 153.87	65.48
33 42 11 00-0865	LF		87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	408.25 53.00 129.32 164.57	71.62
33 42 11 00-0866	LF		95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	435.51 56.41 137.63 175.14	76.74
33 42 11 00-0867	LF		103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	462.79 59.81 145.95 185.72	81.85
33 42 11 00-0868	LF		112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch <i>For Bituminous Coated Pipe, Add</i> <i>For Bituminous Coated And 25% Paved, Add</i> <i>For Smooth-Flo, Add</i>	490.90 63.24 154.31 196.37	86.97

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0869 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	522.15	92.09
For Bituminous Coated Pipe, Add	66.73	
For Bituminous Coated And 25% Paved, Add	162.83	
For Smooth-Flo, Add	207.21	
33 42 11 00-0870 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	555.65	102.32
For Bituminous Coated Pipe, Add	70.20	
For Bituminous Coated And 25% Paved, Add	171.29	
For Smooth-Flo, Add	217.98	
33 42 11 00-0871 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	593.13	112.55
For Bituminous Coated Pipe, Add	74.55	
For Bituminous Coated And 25% Paved, Add	181.90	
For Smooth-Flo, Add	231.48	
<b>33 42 11 00-0872 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0862)</small>		
33 42 11 00-0873 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	430.66	65.48
For Bituminous Coated Pipe, Add	60.09	
For Bituminous Coated And 25% Paved, Add	135.80	
For Smooth-Flo, Add	147.52	
33 42 11 00-0874 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	465.13	71.62
For Bituminous Coated Pipe, Add	64.38	
For Bituminous Coated And 25% Paved, Add	145.49	
For Smooth-Flo, Add	158.04	
33 42 11 00-0875 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	496.68	76.74
For Bituminous Coated Pipe, Add	68.64	
For Bituminous Coated And 25% Paved, Add	155.13	
For Smooth-Flo, Add	168.51	
33 42 11 00-0876 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	528.36	81.85
For Bituminous Coated Pipe, Add	72.93	
For Bituminous Coated And 25% Paved, Add	164.82	
For Smooth-Flo, Add	179.04	
33 42 11 00-0877 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	560.03	86.97
For Bituminous Coated Pipe, Add	77.07	
For Bituminous Coated And 25% Paved, Add	174.17	
For Smooth-Flo, Add	189.20	
33 42 11 00-0878 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	596.14	92.09
For Bituminous Coated Pipe, Add	81.53	
For Bituminous Coated And 25% Paved, Add	184.26	
For Smooth-Flo, Add	200.16	
33 42 11 00-0879 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	634.00	102.32
For Bituminous Coated Pipe, Add	85.87	
For Bituminous Coated And 25% Paved, Add	194.07	
For Smooth-Flo, Add	210.82	
33 42 11 00-0880 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	675.81	112.55
For Bituminous Coated Pipe, Add	91.09	
For Bituminous Coated And 25% Paved, Add	205.85	
For Smooth-Flo, Add	223.62	
33 42 11 00-0881 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Galvanized Corrugated Steel Pipe-Arch	714.87	122.78
For Bituminous Coated Pipe, Add	96.01	
For Bituminous Coated And 25% Paved, Add	216.98	
For Smooth-Flo, Add	235.70	
<b>33 42 11 00-0882 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0799)</small>		
<b>33 42 11 00-0883 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0882)</small>		
33 42 11 00-0884 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	68.20	10.48
33 42 11 00-0885 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	78.08	11.43
33 42 11 00-0886 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	91.30	12.39
33 42 11 00-0887 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	103.66	13.33
33 42 11 00-0888 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	133.81	17.14
33 42 11 00-0889 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	175.47	22.51
<b>33 42 11 00-0890 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0882)</small>		
33 42 11 00-0891 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	77.62	10.48
33 42 11 00-0892 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	89.59	11.43
33 42 11 00-0893 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	104.15	12.39
33 42 11 00-0894 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	118.59	13.33
33 42 11 00-0895 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	152.38	17.14
33 42 11 00-0896 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	197.56	22.51
33 42 11 00-0897 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	230.77	26.60
<b>33 42 11 00-0898 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0882)</small>		
33 42 11 00-0899 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	117.81	11.43
33 42 11 00-0900 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	137.57	12.39
33 42 11 00-0901 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	156.44	13.33
33 42 11 00-0902 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	199.61	17.14
33 42 11 00-0903 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	254.61	22.51
33 42 11 00-0904 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch	297.20	26.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-0905 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	350.62	30.70
33 42 11 00-0906 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	389.19	34.79
<b>33 42 11 00-0907 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0882)</small>		
33 42 11 00-0908 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	299.36	22.51
33 42 11 00-0909 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	349.41	26.60
33 42 11 00-0910 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	409.81	30.70
33 42 11 00-0911 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	456.11	34.79
33 42 11 00-0912 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	499.68	36.83
<b>33 42 11 00-0913 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0799)</small>		
<b>33 42 11 00-0914 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0913)</small>		
33 42 11 00-0915 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	393.09	34.79
33 42 11 00-0916 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	429.45	36.83
33 42 11 00-0917 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	537.55	45.02
33 42 11 00-0918 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	611.59	65.48
33 42 11 00-0919 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	658.26	71.62
33 42 11 00-0920 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	702.27	76.74
33 42 11 00-0921 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	746.10	81.85
33 42 11 00-0922 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	790.75	86.97
<b>33 42 11 00-0923 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0913)</small>		
33 42 11 00-0924 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	537.35	36.83
33 42 11 00-0925 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	657.66	45.02
33 42 11 00-0926 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	742.31	65.48
33 42 11 00-0927 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	799.40	71.62
33 42 11 00-0928 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	853.89	76.74
33 42 11 00-0929 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	908.31	81.85
33 42 11 00-0930 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	963.32	86.97
33 42 11 00-0931 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,021.52	92.09
33 42 11 00-0932 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,081.86	102.32
33 42 11 00-0933 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,146.19	112.55
<b>33 42 11 00-0934 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0913)</small>		
33 42 11 00-0935 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	860.91	65.48
33 42 11 00-0936 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	927.80	71.62
33 42 11 00-0937 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	992.08	76.74
33 42 11 00-0938 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,056.03	81.85
33 42 11 00-0939 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,120.81	86.97
33 42 11 00-0940 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,188.71	92.09
33 42 11 00-0941 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,258.82	102.32
33 42 11 00-0942 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,332.05	112.55
33 42 11 00-0943 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,415.56	122.78
<b>33 42 11 00-0944 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0799)</small>		
<b>33 42 11 00-0945 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0944)</small>		
33 42 11 00-0946 LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	731.65	65.48
33 42 11 00-0947 LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	786.07	71.62
33 42 11 00-0948 LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	837.23	76.74
33 42 11 00-0949 LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	888.33	81.85
33 42 11 00-0950 LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	940.47	86.97
33 42 11 00-0951 LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	996.18	92.09
33 42 11 00-0952 LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,053.96	102.32
33 42 11 00-0953 LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,121.89	112.55
<b>33 42 11 00-0954 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0944)</small>		
33 42 11 00-0955 LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	858.14	65.48
33 42 11 00-0956 LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	922.60	71.62
33 42 11 00-0957 LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	984.02	76.74
33 42 11 00-0958 LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,045.73	81.85
33 42 11 00-0959 LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,106.50	86.97
33 42 11 00-0960 LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,173.81	92.09
33 42 11 00-0961 LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,242.11	102.32
33 42 11 00-0962 LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,320.56	112.55
33 42 11 00-0963 LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Polymeric Corrugated Steel Pipe-Arch .....	1,393.92	122.78
<b>33 42 11 00-0964 Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-0455)</small>		

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 42 11 00-0965	2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0964)		
33 42 11 00-0966	16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0965)		
33 42 11 00-0967	LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	39.38 7.51	10.00
33 42 11 00-0968	LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	44.95 9.47	10.48
33 42 11 00-0969	LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	50.71 11.47	11.43
33 42 11 00-0970	LF 21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	58.02 13.72	12.39
33 42 11 00-0971	LF 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	64.37 15.45	13.33
33 42 11 00-0972	LF 30" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	84.79 20.04	17.14
33 42 11 00-0973	LF 36" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	110.33 25.28	22.51
33 42 11 00-0974	LF 42" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	126.12 29.97	26.60
33 42 11 00-0975	LF 48" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	141.71 33.51	30.70
33 42 11 00-0976	14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0965)		
33 42 11 00-0977	LF 12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	43.44 7.14	10.00
33 42 11 00-0978	LF 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	49.96 8.96	10.48
33 42 11 00-0979	LF 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	56.68 10.83	11.43
33 42 11 00-0980	LF 21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	64.95 12.88	12.39
33 42 11 00-0981	LF 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	72.41 14.58	13.33
33 42 11 00-0982	LF 30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	94.63 18.73	17.14
33 42 11 00-0983	LF 36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	122.24 23.46	22.51
33 42 11 00-0984	LF 42" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	139.82 27.63	26.60
33 42 11 00-0985	LF 48" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	157.33 31.05	30.70
33 42 11 00-0986	LF 54" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	188.60 38.17	34.79
33 42 11 00-0987	12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0965)		
33 42 11 00-0988	LF 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	69.24 10.09	11.43
33 42 11 00-0989	LF 21" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	79.61 11.94	12.39
33 42 11 00-0990	LF 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	89.06 13.53	13.33
33 42 11 00-0991	LF 30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	115.41 17.25	17.14
33 42 11 00-0992	LF 36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	147.31 21.41	22.51
33 42 11 00-0993	LF 42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	168.88 25.11	26.60
33 42 11 00-0994	LF 48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	190.47 28.32	30.70
33 42 11 00-0995	LF 54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	226.46 34.20	34.79
33 42 11 00-0996	LF 60" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	247.36 37.39	36.83
33 42 11 00-0997	LF 66" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	302.02 45.98	45.02
33 42 11 00-0998	10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Piping (33 42 11 00-0965)		
33 42 11 00-0999	LF 36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	169.86 23.45	22.51
33 42 11 00-1000	LF 42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	195.25 27.49	26.60
33 42 11 00-1001	LF 48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	220.41 31.04	30.70



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1002	LF		54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	260.02 36.98	34.79
33 42 11 00-1003	LF		60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	284.72 40.56	36.83
33 42 11 00-1004	LF		66" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	343.05 48.94	45.02
33 42 11 00-1005	LF		72" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	403.49 52.47	65.48
<b>33 42 11 00-1006</b>			<b>3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-0964)</small></b>		
<b>33 42 11 00-1007</b>			<b>16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1006)</small></b>		
33 42 11 00-1008	LF		36" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	128.06 28.11	22.51
33 42 11 00-1009	LF		42" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	146.41 33.01	26.60
33 42 11 00-1010	LF		48" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	164.52 37.02	30.70
33 42 11 00-1011	LF		54" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	196.60 45.22	34.79
33 42 11 00-1012	LF		60" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	214.21 49.26	36.83
33 42 11 00-1013	LF		66" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	268.95 63.28	45.02
33 42 11 00-1014	LF		72" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	322.91 67.44	65.48
33 42 11 00-1015	LF		78" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	347.88 71.62	71.62
33 42 11 00-1016	LF		84" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	370.10 75.82	76.74
33 42 11 00-1017	LF		90" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	392.32 80.01	81.85
33 42 11 00-1018	LF		96" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	415.23 84.19	86.97
33 42 11 00-1019	LF		102" 16 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	441.08 88.41	92.09
<b>33 42 11 00-1020</b>			<b>14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1006)</small></b>		
33 42 11 00-1021	LF		54" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	216.96 39.18	34.79
33 42 11 00-1022	LF		60" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	236.72 42.77	36.83
33 42 11 00-1023	LF		66" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	293.71 53.85	45.02
33 42 11 00-1024	LF		72" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	349.90 57.56	65.48
33 42 11 00-1025	LF		78" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	377.05 61.26	71.62
33 42 11 00-1026	LF		84" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	401.56 65.00	76.74
33 42 11 00-1027	LF		90" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	425.92 68.70	81.85
33 42 11 00-1028	LF		96" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	451.02 72.40	86.97
33 42 11 00-1029	LF		102" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	479.05 76.13	92.09
33 42 11 00-1030	LF		108" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	509.41 79.85	102.32
33 42 11 00-1031	LF		114" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	539.12 83.51	112.55
<b>33 42 11 00-1032</b>			<b>12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping <small>(33 42 11 00-1006)</small></b>		
33 42 11 00-1033	LF		60" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	286.74 57.37	36.83
33 42 11 00-1034	LF		66" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	349.10 70.19	45.02
33 42 11 00-1035	LF		72" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	410.11 75.29	65.48
33 42 11 00-1036	LF		78" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	442.16 80.41	71.62
33 42 11 00-1037	LF		84" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	471.49 85.54	76.74
33 42 11 00-1038	LF		90" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	500.76 90.66	81.85
33 42 11 00-1039	LF		96" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	530.71 95.77	86.97
33 42 11 00-1040	LF		102" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe ..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	563.60 100.91	92.09

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1041	LF	108" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	598.79	102.32
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	106.03	
33 42 11 00-1042	LF	114" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	633.40	112.55
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	111.10	
33 42 11 00-1043	LF	120" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	666.95	122.78
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	116.24	
<b>33 42 11 00-1044</b>		<b>10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>		
		<small>(33 42 11 00-1006)</small>		
33 42 11 00-1045	LF	72" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	466.26	65.48
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	92.41	
33 42 11 00-1046	LF	78" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	502.83	71.62
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	98.88	
33 42 11 00-1047	LF	84" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	536.80	76.74
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	105.41	
33 42 11 00-1048	LF	90" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	570.62	81.85
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	111.90	
33 42 11 00-1049	LF	96" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	605.24	86.97
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	118.40	
33 42 11 00-1050	LF	102" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	642.76	92.09
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	124.93	
33 42 11 00-1051	LF	108" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	682.50	102.32
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	131.41	
33 42 11 00-1052	LF	114" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	721.71	112.55
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	137.87	
33 42 11 00-1053	LF	120" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	759.89	122.78
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	144.39	
33 42 11 00-1054	LF	126" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	799.91	133.02
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	150.87	
33 42 11 00-1055	LF	132" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	842.57	143.25
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	157.38	
33 42 11 00-1056	LF	138" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	888.37	153.48
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	163.91	
<b>33 42 11 00-1057</b>		<b>125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>		
		<small>(33 42 11 00-0964)</small>		
<b>33 42 11 00-1058</b>		<b>16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>		
		<small>(33 42 11 00-1057)</small>		
33 42 11 00-1059	LF	48" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	165.17	30.70
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	45.86	
33 42 11 00-1060	LF	54" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	197.78	34.79
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	56.19	
33 42 11 00-1061	LF	60" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	215.24	36.83
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	61.11	
33 42 11 00-1062	LF	66" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	266.65	45.02
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	76.93	
33 42 11 00-1063	LF	72" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	320.35	65.48
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	81.95	
33 42 11 00-1064	LF	78" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	345.01	71.62
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	86.96	
33 42 11 00-1065	LF	84" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	366.80	76.74
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	91.94	
33 42 11 00-1066	LF	90" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	388.53	81.85
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	96.89	
33 42 11 00-1067	LF	96" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	411.21	86.97
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	101.94	
33 42 11 00-1068	LF	102" 16 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	436.98	92.09
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	107.10	
<b>33 42 11 00-1069</b>		<b>14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b>		
		<small>(33 42 11 00-1057)</small>		
33 42 11 00-1070	LF	54" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	223.24	34.79
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	52.98	
33 42 11 00-1071	LF	60" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	243.61	36.83
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	57.85	
33 42 11 00-1072	LF	66" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	297.54	45.02
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	71.19	
33 42 11 00-1073	LF	72" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	353.76	65.48
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	76.00	
33 42 11 00-1074	LF	78" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	381.42	71.62
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	80.98	
33 42 11 00-1075	LF	84" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	406.04	76.74
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	85.87	
33 42 11 00-1076	LF	90" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	429.22	81.85
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	90.27	
33 42 11 00-1077	LF	96" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	455.96	86.97
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	95.63	
33 42 11 00-1078	LF	102" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe .....	484.14	92.09
		<i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	100.52	





<b>Utilities</b>	<b>33</b>	<b>CS</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1079 LF 108" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	514.54 105.37	102.32
33 42 11 00-1080 LF 114" 14 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	544.86 110.32	112.55
<b>33 42 11 00-1081 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1057)</small>		
33 42 11 00-1082 LF 60" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	296.62 63.82	36.83
33 42 11 00-1083 LF 66" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	355.99 76.60	45.02
33 42 11 00-1084 LF 72" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	417.76 82.24	65.48
33 42 11 00-1085 LF 78" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	450.32 87.82	71.62
33 42 11 00-1086 LF 84" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	479.95 93.37	76.74
33 42 11 00-1087 LF 90" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	509.87 99.00	81.85
33 42 11 00-1088 LF 96" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	540.32 104.57	86.97
33 42 11 00-1089 LF 102" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	573.60 110.14	92.09
33 42 11 00-1090 LF 108" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	609.39 115.76	102.32
33 42 11 00-1091 LF 114" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	644.65 121.34	112.55
33 42 11 00-1092 LF 120" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	678.63 126.93	122.78
<b>33 42 11 00-1093 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1057)</small>		
33 42 11 00-1094 LF 72" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	479.05 99.77	65.48
33 42 11 00-1095 LF 78" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	517.30 106.98	71.62
33 42 11 00-1096 LF 84" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	552.26 114.05	76.74
33 42 11 00-1097 LF 90" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	587.00 121.06	81.85
33 42 11 00-1098 LF 96" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	622.66 128.12	86.97
33 42 11 00-1099 LF 102" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	661.02 135.15	92.09
33 42 11 00-1100 LF 108" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	701.87 142.21	102.32
33 42 11 00-1101 LF 114" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	742.26 149.26	112.55
33 42 11 00-1102 LF 120" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	781.25 156.28	122.78
33 42 11 00-1103 LF 126" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	830.15 165.55	133.02
33 42 11 00-1104 LF 132" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	875.80 173.18	143.25
33 42 11 00-1105 LF 138" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe..... <i>For 1/2 Bituminous Coated And 25% Paved, Add</i>	925.57 181.10	153.48
<b>33 42 11 00-1106 Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-0964)</small>		
<b>33 42 11 00-1107 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1106)</small>		
33 42 11 00-1108 LF 18" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	57.56	11.43
33 42 11 00-1109 LF 21" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	65.95	12.39
33 42 11 00-1110 LF 24" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	73.75	13.33
33 42 11 00-1111 LF 30" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	96.23	17.14
33 42 11 00-1112 LF 36" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	123.77	22.51
33 42 11 00-1113 LF 42" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	141.62	26.60
33 42 11 00-1114 LF 48" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	159.74	30.70
33 42 11 00-1115 LF 54" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	189.67	34.79
33 42 11 00-1116 LF 60" 16 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	207.24	36.83
<b>33 42 11 00-1117 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1106)</small>		
33 42 11 00-1118 LF 18" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	63.46	11.43
33 42 11 00-1119 LF 21" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	72.84	12.39
33 42 11 00-1120 LF 24" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	81.56	13.33
33 42 11 00-1121 LF 30" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	105.99	17.14
33 42 11 00-1122 LF 36" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	135.52	22.51
33 42 11 00-1123 LF 42" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	155.36	26.60

<b>33</b>	<b>33 Utilities</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1124 LF 48" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	175.43	30.70
33 42 11 00-1125 LF 54" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	207.32	34.79
33 42 11 00-1126 LF 60" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	226.92	36.83
33 42 11 00-1127 LF 66" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	275.99	45.02
33 42 11 00-1128 LF 72" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	331.41	65.48
33 42 11 00-1129 LF 78" 14 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	357.99	71.62
<b>33 42 11 00-1130 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1106)</small>		
33 42 11 00-1131 LF 30" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	125.78	17.14
33 42 11 00-1132 LF 36" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	159.22	22.51
33 42 11 00-1133 LF 42" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	183.12	26.60
33 42 11 00-1134 LF 48" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	207.09	30.70
33 42 11 00-1135 LF 54" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	242.91	34.79
33 42 11 00-1136 LF 60" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	266.53	36.83
33 42 11 00-1137 LF 66" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	319.47	45.02
33 42 11 00-1138 LF 72" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	378.80	65.48
33 42 11 00-1139 LF 78" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	409.32	71.62
33 42 11 00-1140 LF 84" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	436.93	76.74
33 42 11 00-1141 LF 90" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	464.59	81.85
33 42 11 00-1142 LF 96" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	492.86	86.97
33 42 11 00-1143 LF 102" 12 Gauge, Helical Ribbed, Aluminized Type 2 Corrugated Steel Pipe .....	522.11	92.09
<b>33 42 11 00-1144 Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-0455)</small>		
<b>33 42 11 00-1145 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1144)</small>		
<b>33 42 11 00-1146 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1145)</small>		
33 42 11 00-1147 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	46.32	10.48
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	12.23	
33 42 11 00-1148 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	51.94	11.43
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	14.61	
33 42 11 00-1149 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	59.71	12.39
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	17.57	
33 42 11 00-1150 LF 28" x 20" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	67.20	13.33
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	20.25	
33 42 11 00-1151 LF 35" x 24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	87.35	17.14
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	25.72	
33 42 11 00-1152 LF 42" x 29" 16 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	115.04	22.51
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	33.17	
<b>33 42 11 00-1153 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1145)</small>		
33 42 11 00-1154 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	51.34	10.48
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	12.67	
33 42 11 00-1155 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	58.02	11.43
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	15.18	
33 42 11 00-1156 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	66.56	12.39
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	18.06	
33 42 11 00-1157 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	75.13	13.33
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	20.83	
33 42 11 00-1158 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	97.23	17.14
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	26.37	
33 42 11 00-1159 LF 42" x 29" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	126.79	22.51
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	33.59	
33 42 11 00-1160 LF 49" x 33" 14 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	146.25	26.60
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	40.02	
<b>33 42 11 00-1161 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1145)</small>		
33 42 11 00-1162 LF 21" x 15" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	70.43	11.43
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	13.91	
33 42 11 00-1163 LF 24" x 18" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	81.26	12.39
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	16.53	
33 42 11 00-1164 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	91.78	13.33
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	18.97	
33 42 11 00-1165 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	118.01	17.14
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	23.94	
33 42 11 00-1166 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	151.90	22.51
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	30.10	
33 42 11 00-1167 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	175.54	26.60
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	35.68	
33 42 11 00-1168 LF 57" x 38" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	205.75	30.70
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	42.48	
33 42 11 00-1169 LF 64" x 43" 12 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	229.44	34.79
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	46.83	



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	<b>Stormwater Utilities 33 40</b>	
	<b>Stormwater Conveyance 33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 11 00-1170 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1145)</small>		
33 42 11 00-1171 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	174.45	22.51
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	31.68	
33 42 11 00-1172 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	201.83	26.60
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	37.44	
33 42 11 00-1173 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	235.57	30.70
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	44.20	
33 42 11 00-1174 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	263.16	34.79
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	48.94	
33 42 11 00-1175 LF 71" x 47" 10 Gauge, 2-2/3" x 1/2" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	288.12	36.83
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	53.67	
<b>33 42 11 00-1176 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1144)</small>		
<b>33 42 11 00-1177 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1176)</small>		
33 42 11 00-1178 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	220.98	34.79
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	70.34	
33 42 11 00-1179 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	241.50	36.83
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	76.96	
33 42 11 00-1180 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	299.22	45.02
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	96.67	
33 42 11 00-1181 LF 81" x 59" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	356.48	65.48
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	103.63	
33 42 11 00-1182 LF 87" x 63" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	385.51	71.62
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	110.96	
33 42 11 00-1183 LF 95" x 67" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	411.78	76.74
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	118.30	
33 42 11 00-1184 LF 103" x 71" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	437.98	81.85
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	125.61	
33 42 11 00-1185 LF 112" x 75" 14 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	464.95	86.97
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	132.94	
<b>33 42 11 00-1186 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1176)</small>		
33 42 11 00-1187 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	291.57	36.83
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	87.46	
33 42 11 00-1188 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	354.73	45.02
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	106.89	
33 42 11 00-1189 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	416.92	65.48
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	114.97	
33 42 11 00-1190 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	450.78	71.62
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	123.32	
33 42 11 00-1191 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	481.98	76.74
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	131.73	
33 42 11 00-1192 LF 103" x 71" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	513.12	81.85
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	140.11	
33 42 11 00-1193 LF 112" x 75" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	544.91	86.97
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	148.46	
33 42 11 00-1194 LF 117" x 79" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	579.72	92.09
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	156.89	
33 42 11 00-1195 LF 128" x 83" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	616.78	102.32
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	165.27	
33 42 11 00-1196 LF 137" x 87" 12 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	655.52	112.55
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	174.49	
<b>33 42 11 00-1197 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch</b> <small>(33 42 11 00-1176)</small>		
33 42 11 00-1198 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	473.04	65.48
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	124.44	
33 42 11 00-1199 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	511.56	71.62
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	133.70	
33 42 11 00-1200 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	547.36	76.74
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	142.98	
33 42 11 00-1201 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	583.02	81.85
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	152.21	
33 42 11 00-1202 LF 112" x 75" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	622.54	86.97
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	162.57	
33 42 11 00-1203 LF 117" x 79" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	658.84	92.09
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	170.74	
33 42 11 00-1204 LF 128" x 83" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	700.53	102.32
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	180.01	
33 42 11 00-1205 LF 137" x 87" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	743.45	112.55
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	189.87	
33 42 11 00-1206 LF 142" x 91" 10 Gauge, 3" x 1" Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch.....	790.59	122.78
<i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	201.74	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

33 42 11 00-1207	125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1144)</small>		
33 42 11 00-1208	12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1207)</small>		
33 42 11 00-1209	LF 81" x 59" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	422.59 113.15	65.48
33 42 11 00-1210	LF 87" x 63" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	455.94 121.01	71.62
33 42 11 00-1211	LF 95" x 67" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	486.31 128.81	76.74
33 42 11 00-1212	LF 103" x 71" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	516.64 136.58	81.85
33 42 11 00-1213	LF 112" x 75" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	547.82 144.40	86.97
33 42 11 00-1214	LF 117" x 79" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	582.21 152.37	92.09
33 42 11 00-1215	LF 128" x 83" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	618.85 160.30	102.32
33 42 11 00-1216	LF 137" x 87" 12 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	660.23 170.22	112.55
33 42 11 00-1217	10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <small>(33 42 11 00-1207)</small>		
33 42 11 00-1218	LF 81" x 59" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	484.75 125.50	65.48
33 42 11 00-1219	LF 87" x 63" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	523.08 134.46	71.62
33 42 11 00-1220	LF 95" x 67" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	558.46 143.36	76.74
33 42 11 00-1221	LF 103" x 71" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	594.00 152.32	81.85
33 42 11 00-1222	LF 112" x 75" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	629.43 160.98	86.97
33 42 11 00-1223	LF 117" x 79" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	669.52 170.29	92.09
33 42 11 00-1224	LF 128" x 83" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	711.33 179.37	102.32
33 42 11 00-1225	LF 137" x 87" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	757.80 190.25	112.55
33 42 11 00-1226	LF 142" x 91" 10 Gauge, 125 mm x 25 mm Corrugation, Aluminized Type 2 Corrugated Steel Pipe-Arch <i>For 1/2 Bituminous Coated And 40% Paved, Add</i>	801.31 200.53	122.78
33 42 11 00-1227	Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-0455)</small>		
33 42 11 00-1228	1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1227)</small>		
33 42 11 00-1229	18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1228)</small>		
33 42 11 00-1230	LF 6" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	23.54 2.33	5.71
33 42 11 00-1231	LF 8" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	30.31 3.16	7.15
33 42 11 00-1232	LF 10" 18 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	39.25 4.16	8.58
33 42 11 00-1233	16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1228)</small>		
33 42 11 00-1234	LF 6" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	26.21 2.31	5.71
33 42 11 00-1235	LF 8" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	34.08 3.15	7.15
33 42 11 00-1236	LF 10" 16 Gauge, 1-1/2" x 1/4" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	44.28 4.17	8.58
33 42 11 00-1237	2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1227)</small>		
33 42 11 00-1238	16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1237)</small>		
33 42 11 00-1239	LF 12" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	45.52 4.58	10.00
33 42 11 00-1240	LF 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	52.56 5.74	10.48
33 42 11 00-1241	LF 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe <i>For Bituminous Coated Pipe, Add</i>	60.03 6.98	11.43



<b>Utilities</b>	<b>33</b>	CS
<b>Stormwater Utilities</b>	<b>33 40</b>	
<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
33 42 11 00-1242	LF	21" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	69.10		12.39
		For Bituminous Coated Pipe, Add	8.33		
33 42 11 00-1243	LF	24" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	77.19		13.33
		For Bituminous Coated Pipe, Add	9.45		
<b>33 42 11 00-1244      14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1237)</small></b>					
33 42 11 00-1245	LF	12" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	51.23		10.00
		For Bituminous Coated Pipe, Add	4.48		
33 42 11 00-1246	LF	15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	59.85		10.48
		For Bituminous Coated Pipe, Add	5.63		
33 42 11 00-1247	LF	18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	68.77		11.43
		For Bituminous Coated Pipe, Add	6.83		
33 42 11 00-1248	LF	21" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	79.22		12.39
		For Bituminous Coated Pipe, Add	8.11		
33 42 11 00-1249	LF	24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	88.81		13.33
		For Bituminous Coated Pipe, Add	9.21		
33 42 11 00-1250	LF	30" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	115.52		17.14
		For Bituminous Coated Pipe, Add	11.81		
33 42 11 00-1251	LF	36" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	147.64		22.51
		For Bituminous Coated Pipe, Add	14.68		
<b>33 42 11 00-1252      12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1237)</small></b>					
33 42 11 00-1253	LF	24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	111.03		13.33
		For Bituminous Coated Pipe, Add	8.74		
33 42 11 00-1254	LF	30" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	143.18		17.14
		For Bituminous Coated Pipe, Add	11.12		
33 42 11 00-1255	LF	36" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	180.87		22.51
		For Bituminous Coated Pipe, Add	13.71		
33 42 11 00-1256	LF	42" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	208.65		26.60
		For Bituminous Coated Pipe, Add	16.13		
33 42 11 00-1257	LF	48" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	235.97		30.70
		For Bituminous Coated Pipe, Add	18.25		
33 42 11 00-1258	LF	54" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	277.64		34.79
		For Bituminous Coated Pipe, Add	21.65		
<b>33 42 11 00-1259      10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1237)</small></b>					
33 42 11 00-1260	LF	36" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	216.28		22.51
		For Bituminous Coated Pipe, Add	13.48		
33 42 11 00-1261	LF	42" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	249.90		26.60
		For Bituminous Coated Pipe, Add	15.82		
33 42 11 00-1262	LF	48" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	283.25		30.70
		For Bituminous Coated Pipe, Add	17.96		
33 42 11 00-1263	LF	54" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	330.83		34.79
		For Bituminous Coated Pipe, Add	21.07		
33 42 11 00-1264	LF	60" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	363.74		36.83
		For Bituminous Coated Pipe, Add	23.22		
<b>33 42 11 00-1265      3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1227)</small></b>					
<b>33 42 11 00-1266      16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small></b>					
33 42 11 00-1267	LF	30" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	113.71		17.14
33 42 11 00-1268	LF	36" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	145.38		22.51
33 42 11 00-1269	LF	42" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	166.52		26.60
33 42 11 00-1270	LF	48" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	188.57		30.70
33 42 11 00-1271	LF	54" 16 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	222.73		34.79
<b>33 42 11 00-1272      14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small></b>					
33 42 11 00-1273	LF	30" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	128.28		17.14
33 42 11 00-1274	LF	36" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	166.17		22.51
33 42 11 00-1275	LF	42" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	190.65		26.60
33 42 11 00-1276	LF	48" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	214.91		30.70
33 42 11 00-1277	LF	54" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	253.58		34.79
33 42 11 00-1278	LF	60" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	277.27		36.83
33 42 11 00-1279	LF	66" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	337.30		45.02
33 42 11 00-1280	LF	72" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	397.19		65.48
33 42 11 00-1281	LF	78" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe .....	428.10		71.62
<b>33 42 11 00-1282      12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping <small>(33 42 11 00-1265)</small></b>					

<b>33</b>	<b>Utilities</b>
<b>33 40</b>	<b>Stormwater Utilities</b>
<b>33 42</b>	<b>Stormwater Conveyance</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1283 LF 30" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	162.30	17.14
33 42 11 00-1284 LF 36" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	204.43	22.51
33 42 11 00-1285 LF 42" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	236.36	26.60
33 42 11 00-1286 LF 48" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	267.34	30.70
33 42 11 00-1287 LF 54" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	312.44	34.79
33 42 11 00-1288 LF 60" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	342.45	36.83
33 42 11 00-1289 LF 66" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	408.79	45.02
33 42 11 00-1290 LF 72" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	475.15	65.48
33 42 11 00-1291 LF 78" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	512.44	71.62
33 42 11 00-1292 LF 84" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	547.02	76.74
33 42 11 00-1293 LF 90" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	581.51	81.85
33 42 11 00-1294 LF 96" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	616.74	86.97
<b>33 42 11 00-1295 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Piping</b> <small>(33 42 11 00-1295)</small>		
33 42 11 00-1296 LF 60" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	411.00	36.83
33 42 11 00-1297 LF 66" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	481.31	45.02
33 42 11 00-1298 LF 72" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	554.18	65.48
33 42 11 00-1299 LF 78" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	597.98	71.62
33 42 11 00-1300 LF 84" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	638.97	76.74
33 42 11 00-1301 LF 90" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	679.96	81.85
33 42 11 00-1302 LF 96" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	721.64	86.97
33 42 11 00-1303 LF 102" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	766.30	92.09
33 42 11 00-1304 LF 108" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Corrugated Aluminum Pipe.....	813.22	102.32
<b>33 42 11 00-1305 Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1305)</small>		
<small>1227</small> Note: Contech ULTRA FLO. HS 20 and HS 25 vehicular loading.		
<b>33 42 11 00-1306 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1306)</small>		
33 42 11 00-1307 LF 18" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	79.65	11.43
33 42 11 00-1308 LF 21" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	85.66	12.39
33 42 11 00-1309 LF 24" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	103.26	13.33
33 42 11 00-1310 LF 27" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	119.23	15.24
33 42 11 00-1311 LF 30" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	133.67	17.14
33 42 11 00-1312 LF 33" 16 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	149.16	19.05
<b>33 42 11 00-1313 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1313)</small>		
33 42 11 00-1314 LF 18" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	91.98	11.43
33 42 11 00-1315 LF 21" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	106.33	12.39
33 42 11 00-1316 LF 24" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	119.83	13.33
33 42 11 00-1317 LF 27" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	137.83	15.24
33 42 11 00-1318 LF 30" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	154.30	17.14
33 42 11 00-1319 LF 33" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	171.89	19.05
33 42 11 00-1320 LF 36" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	194.47	22.51
33 42 11 00-1321 LF 42" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	224.49	26.60
33 42 11 00-1322 LF 48" 14 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	254.02	30.70
<b>33 42 11 00-1323 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1323)</small>		
33 42 11 00-1324 LF 30" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	194.65	17.14
33 42 11 00-1325 LF 33" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	216.18	19.05
33 42 11 00-1326 LF 36" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	242.85	22.51
33 42 11 00-1327 LF 42" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	280.99	26.60
33 42 11 00-1328 LF 48" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	318.59	30.70
33 42 11 00-1329 LF 54" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	440.70	34.79
33 42 11 00-1330 LF 60" 12 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	485.03	36.83
<b>33 42 11 00-1331 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Piping</b> <small>(33 42 11 00-1331)</small>		
33 42 11 00-1332 LF 48" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	450.15	30.70
33 42 11 00-1333 LF 54" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	521.81	34.79
33 42 11 00-1334 LF 60" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	575.25	36.83
33 42 11 00-1335 LF 66" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	668.34	45.02
33 42 11 00-1336 LF 72" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	756.75	65.48
33 42 11 00-1337 LF 78" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	816.83	71.62
33 42 11 00-1338 LF 84" 10 Gauge, Exterior Box Corrugation, Aluminized Type 2 Corrugated Steel Pipe.....	873.60	76.74
<b>33 42 11 00-1339 Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-0455)</small>		
<b>33 42 11 00-1340 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1339)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 11 00-1341 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1340)</small>		
33 42 11 00-1342 LF 17" x 13" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	55.16	10.48
<i>For Bituminous Coated Pipe, Add</i>	5.75	
33 42 11 00-1343 LF 21" x 15" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	62.50	11.43
<i>For Bituminous Coated Pipe, Add</i>	6.87	
33 42 11 00-1344 LF 24" x 18" 16 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	71.90	12.39
<i>For Bituminous Coated Pipe, Add</i>	8.18	
<b>33 42 11 00-1345 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1340)</small>		
33 42 11 00-1346 LF 17" x 13" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	62.46	10.48
<i>For Bituminous Coated Pipe, Add</i>	5.73	
33 42 11 00-1347 LF 21" x 15" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	69.51	11.43
<i>For Bituminous Coated Pipe, Add</i>	6.61	
33 42 11 00-1348 LF 24" x 18" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	82.03	12.39
<i>For Bituminous Coated Pipe, Add</i>	8.11	
33 42 11 00-1349 LF 28" x 20" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	92.62	13.33
<i>For Bituminous Coated Pipe, Add</i>	9.31	
33 42 11 00-1350 LF 35" x 24" 14 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	119.31	17.14
<i>For Bituminous Coated Pipe, Add</i>	11.78	
<b>33 42 11 00-1351 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1340)</small>		
33 42 11 00-1352 LF 28" x 20" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	114.86	13.33
<i>For Bituminous Coated Pipe, Add</i>	8.87	
33 42 11 00-1353 LF 35" x 24" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	147.04	17.14
<i>For Bituminous Coated Pipe, Add</i>	11.19	
33 42 11 00-1354 LF 42" x 29" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	187.39	22.51
<i>For Bituminous Coated Pipe, Add</i>	13.96	
33 42 11 00-1355 LF 49" x 33" 12 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	217.24	26.60
<i>For Bituminous Coated Pipe, Add</i>	16.52	
<b>33 42 11 00-1356 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1340)</small>		
33 42 11 00-1357 LF 42" x 29" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	222.76	22.51
<i>For Bituminous Coated Pipe, Add</i>	13.48	
33 42 11 00-1358 LF 49" x 33" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	258.57	26.60
<i>For Bituminous Coated Pipe, Add</i>	15.90	
33 42 11 00-1359 LF 57" x 38" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	300.65	30.70
<i>For Bituminous Coated Pipe, Add</i>	18.63	
33 42 11 00-1360 LF 64" x 43" 10 Gauge, 2-2/3" x 1/2" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	336.55	34.79
<i>For Bituminous Coated Pipe, Add</i>	20.72	
<b>33 42 11 00-1361 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1339)</small>		
<b>33 42 11 00-1362 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1361)</small>		
33 42 11 00-1363 LF 60" x 46" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	259.30	34.79
33 42 11 00-1364 LF 66" x 51" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	283.92	36.83
33 42 11 00-1365 LF 73" x 55" 14 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	345.52	45.02
<b>33 42 11 00-1366 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1361)</small>		
33 42 11 00-1367 LF 60" x 46" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	318.16	34.79
33 42 11 00-1368 LF 66" x 51" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	349.10	36.83
33 42 11 00-1369 LF 73" x 55" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	416.71	45.02
33 42 11 00-1370 LF 81" x 59" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	483.68	65.48
33 42 11 00-1371 LF 87" x 63" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	521.56	71.62
33 42 11 00-1372 LF 95" x 67" 12 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	556.75	76.74
<b>33 42 11 00-1373 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch</b> <small>(33 42 11 00-1361)</small>		
33 42 11 00-1374 LF 66" x 51" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	417.55	36.83
33 42 11 00-1375 LF 73" x 55" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	488.94	45.02
33 42 11 00-1376 LF 81" x 59" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	562.40	65.48
33 42 11 00-1377 LF 87" x 63" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	606.79	71.62
33 42 11 00-1378 LF 95" x 67" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	648.39	76.74
33 42 11 00-1379 LF 103" x 71" 10 Gauge, 3" x 1" Corrugation, Spiral Lockseam Aluminum Pipe-Arch.....	689.96	81.85
<b>33 42 11 00-1380 Corrugated Steel Pipe Fittings</b> <small>(33 42 11 00-0455)</small> Note: Equivalent pipe-arch sizes are approximate.		
<b>33 42 11 00-1381 Fabricate 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fittings</b> <small>(33 42 11 00-1380)</small> Note: Excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1382 EA Fabricate 6" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe) .....	88.92	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1383 EA Fabricate 8" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	111.51	
33 42 11 00-1384 EA Fabricate 10" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 2' Of Appropriate Pipe)	134.11	
33 42 11 00-1385 EA Fabricate 12" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	158.12	
33 42 11 00-1386 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	191.98	
33 42 11 00-1387 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	225.84	
33 42 11 00-1388 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	259.74	
33 42 11 00-1389 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	293.60	
33 42 11 00-1390 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	382.54	
33 42 11 00-1391 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	455.93	
33 42 11 00-1392 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	529.35	
33 42 11 00-1393 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	684.61	
33 42 11 00-1394 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	772.15	
33 42 11 00-1395 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	862.49	
33 42 11 00-1396 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	955.64	
33 42 11 00-1397 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe)	1,164.56	
33 42 11 00-1398 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe)	1,270.42	
33 42 11 00-1399 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 10' Of Appropriate Pipe)	1,379.11	
33 42 11 00-1400 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,692.49	
33 42 11 00-1401 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,816.72	
33 42 11 00-1402 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,942.35	
33 42 11 00-1403 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	2,067.97	
33 42 11 00-1404 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	2,192.18	
33 42 11 00-1405 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	2,317.83	
33 42 11 00-1406 EA Fabricate 126" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,450.28	
33 42 11 00-1407 EA Fabricate 132" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,590.31	
33 42 11 00-1408 EA Fabricate 138" 2-Piece Single Miter Elbow, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	2,738.31	
<b>33 42 11 00-1409</b>		
<b>Fabricate Corrugated Steel Pipe Tees Or Laterals</b> (33 42 11 00-1380)		
Note: Fabrication charge excludes material. Use appropriate size, gauge, corrugation and type of material from pipe sections for the listed requirements of pipe needed.		
33 42 11 00-1410 EA Fabricate 6" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	115.75	
33 42 11 00-1411 EA Fabricate 8" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	148.22	
33 42 11 00-1412 EA Fabricate 10" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	180.67	
33 42 11 00-1413 EA Fabricate 12" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 3' Of Appropriate Pipe)	213.15	
33 42 11 00-1414 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 4' Of Appropriate Pipe)	259.74	
33 42 11 00-1415 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	307.71	
33 42 11 00-1416 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	355.73	
33 42 11 00-1417 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 6' Of Appropriate Pipe)	403.69	
33 42 11 00-1418 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 8' Of Appropriate Pipe)	529.35	
33 42 11 00-1419 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	630.98	
33 42 11 00-1420 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	734.02	
33 42 11 00-1421 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 9' Of Appropriate Pipe)	952.80	
33 42 11 00-1422 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,072.80	
33 42 11 00-1423 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,197.00	
33 42 11 00-1424 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 12' Of Appropriate Pipe)	1,324.06	
33 42 11 00-1425 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 14' Of Appropriate Pipe)	1,614.84	
33 42 11 00-1426 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,758.84	
33 42 11 00-1427 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 16' Of Appropriate Pipe)	1,905.64	





<b>Utilities</b>	<b>33</b>	<b>CS</b>
Stormwater Utilities	33 40	
Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1428 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,344.61	
33 42 11 00-1429 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 18' Of Appropriate Pipe).....	2,512.60	
33 42 11 00-1430 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,680.58	
33 42 11 00-1431 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 20' Of Appropriate Pipe).....	2,849.95	
33 42 11 00-1432 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	3,019.37	
33 42 11 00-1433 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 21' Of Appropriate Pipe).....	3,187.32	
33 42 11 00-1434 EA Fabricate 126" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 23' Of Appropriate Pipe).....	3,364.64	
33 42 11 00-1435 EA Fabricate 132" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,551.82	
33 42 11 00-1436 EA Fabricate 138" Tee Or Lateral, Corrugated Steel Pipe Fitting (Requires 24' Of Appropriate Pipe).....	3,749.39	
<b>33 42 11 00-1437 Fabricate Skew Or Bevel Ends, Corrugated Steel Pipe Fitting (33 42 11 00-1380)</b>		
Note: Applied to pipe tasks.		
33 42 11 00-1438 EA Fabricate 6" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	44.35	
33 42 11 00-1439 EA Fabricate 8" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	55.79	
33 42 11 00-1440 EA Fabricate 10" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	70.18	
33 42 11 00-1441 EA Fabricate 12" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	85.94	
33 42 11 00-1442 EA Fabricate 15" (Or 17" x 13" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	108.75	
33 42 11 00-1443 EA Fabricate 18" (Or 21" x 15" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	133.17	
33 42 11 00-1444 EA Fabricate 21" (Or 24" x 18" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	155.98	
33 42 11 00-1445 EA Fabricate 24" (Or 28" x 20" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	181.21	
33 42 11 00-1446 EA Fabricate 30" (Or 35" x 24" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	222.58	
33 42 11 00-1447 EA Fabricate 36" (Or 42" x 29" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	265.37	
33 42 11 00-1448 EA Fabricate 42" (Or 49" x 33" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	316.64	
33 42 11 00-1449 EA Fabricate 48" (Or 57" x 38" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	389.51	
33 42 11 00-1450 EA Fabricate 54" (Or 64" x 43" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	440.87	
33 42 11 00-1451 EA Fabricate 60" (Or 71" x 47" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	496.50	
33 42 11 00-1452 EA Fabricate 66" (Or 77" x 52" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	602.10	
33 42 11 00-1453 EA Fabricate 72" (Or 83" x 57" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	667.71	
33 42 11 00-1454 EA Fabricate 78" (Or 87" x 63" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	814.68	
33 42 11 00-1455 EA Fabricate 84" (Or 95" x 67" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	887.47	
33 42 11 00-1456 EA Fabricate 90" (Or 103" x 71" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	964.54	
33 42 11 00-1457 EA Fabricate 96" (Or 112" x 75" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,040.11	
33 42 11 00-1458 EA Fabricate 102" (Or 117" x 79" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,117.16	
33 42 11 00-1459 EA Fabricate 108" (Or 128" x 83" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,195.62	
33 42 11 00-1460 EA Fabricate 114" (Or 137" x 87" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,272.69	
33 42 11 00-1461 EA Fabricate 120" (Or 142" x 91" Pipe-Arch) Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,349.72	
33 42 11 00-1462 EA Fabricate 126" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,431.42	
33 42 11 00-1463 EA Fabricate 132" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,518.03	
33 42 11 00-1464 EA Fabricate 138" Skew Or Bevel End, Corrugated Steel Pipe Fitting.....	1,609.90	
<b>33 42 11 00-1465 Coupling Bands, Corrugated Metal Pipe Fitting (33 42 11 00-1380)</b>		
33 42 11 00-1466 EA 6" Coupling Band, Corrugated Metal Pipe Fitting.....	13.32	
For Bituminous Coated, Add	3.86	
33 42 11 00-1467 EA 8" Coupling Band, Corrugated Metal Pipe Fitting.....	17.68	
For Bituminous Coated, Add	5.13	
33 42 11 00-1468 EA 10" Coupling Band, Corrugated Metal Pipe Fitting.....	22.28	
For Bituminous Coated, Add	6.46	
33 42 11 00-1469 EA 12" Coupling Band, Corrugated Metal Pipe Fitting.....	36.98	
For Bituminous Coated, Add	10.72	
33 42 11 00-1470 EA 15" Coupling Band, Corrugated Metal Pipe Fitting.....	46.62	
For Bituminous Coated, Add	13.52	
33 42 11 00-1471 EA 18" Coupling Band, Corrugated Metal Pipe Fitting.....	68.40	
For Bituminous Coated, Add	19.84	
33 42 11 00-1472 EA 21" Coupling Band, Corrugated Metal Pipe Fitting.....	81.19	
For Bituminous Coated, Add	23.55	
33 42 11 00-1473 EA 24" Coupling Band, Corrugated Metal Pipe Fitting.....	92.06	
For Bituminous Coated, Add	26.70	
33 42 11 00-1474 EA 30" Coupling Band, Corrugated Metal Pipe Fitting.....	159.31	
For Bituminous Coated, Add	46.20	
33 42 11 00-1475 EA 36" Coupling Band, Corrugated Metal Pipe Fitting.....	254.89	
For Bituminous Coated, Add	61.17	
33 42 11 00-1476 EA 42" Coupling Band, Corrugated Metal Pipe Fitting.....	299.49	
For Bituminous Coated, Add	71.88	
33 42 11 00-1477 EA 48" Coupling Band, Corrugated Metal Pipe Fitting.....	335.58	
For Bituminous Coated, Add	80.54	
33 42 11 00-1478 EA 54" Coupling Band, Corrugated Metal Pipe Fitting.....	475.91	
For Bituminous Coated, Add	114.22	
33 42 11 00-1479 EA 60" Coupling Band, Corrugated Metal Pipe Fitting.....	680.70	
For Bituminous Coated, Add	122.53	
33 42 11 00-1480 EA 66" Coupling Band, Corrugated Metal Pipe Fitting.....	836.57	
For Bituminous Coated, Add	150.58	
33 42 11 00-1481 EA 72" Coupling Band, Corrugated Metal Pipe Fitting.....	1,074.62	
For Bituminous Coated, Add	150.45	
33 42 11 00-1482 EA 78" Coupling Band, Corrugated Metal Pipe Fitting.....	1,149.37	
For Bituminous Coated, Add	160.91	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 11 00-1483 EA 84" Coupling Band, Corrugated Metal Pipe Fitting.....	1,224.55	
For Bituminous Coated, Add	171.44	
33 42 11 00-1484 EA 90" Coupling Band, Corrugated Metal Pipe Fitting.....	1,299.35	
For Bituminous Coated, Add	181.91	
33 42 11 00-1485 EA 96" Coupling Band, Corrugated Metal Pipe Fitting.....	1,374.33	
For Bituminous Coated, Add	192.41	
33 42 11 00-1486 EA 102" Coupling Band, Corrugated Metal Pipe Fitting.....	1,449.51	
For Bituminous Coated, Add	202.93	
33 42 11 00-1487 EA 108" Coupling Band, Corrugated Metal Pipe Fitting.....	1,524.34	
For Bituminous Coated, Add	213.41	
33 42 11 00-1488 EA 114" Coupling Band, Corrugated Metal Pipe Fitting.....	1,805.42	
For Bituminous Coated, Add	216.65	
33 42 11 00-1489 EA 120" Coupling Band, Corrugated Metal Pipe Fitting.....	1,673.90	
For Bituminous Coated, Add	200.87	
33 42 11 00-1490 EA 126" Coupling Band, Corrugated Metal Pipe Fitting.....	1,748.50	
For Bituminous Coated, Add	209.82	
33 42 11 00-1491 EA 132" Coupling Band, Corrugated Metal Pipe Fitting.....	1,823.64	
For Bituminous Coated, Add	218.84	
33 42 11 00-1492 EA 138" Coupling Band, Corrugated Metal Pipe Fitting.....	1,898.86	
For Bituminous Coated, Add	227.86	
<b>33 42 13 Stormwater Culverts (33 42)</b>		
<b>33 42 13 13 Precast Concrete Stormwater Culverts (33 42 13)</b>		
<b>33 42 13 13-0001 Precast Reinforced Concrete Box Culvert (33 42 13 13)</b>		
Note: The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0882 for crane lifting equipment.		
33 42 13 13-0002 LF 3' x 3' Precast Reinforced Concrete Box Culvert .....	403.05	51.16
For Each LF Of Cut-Off Section, Add	16.12	
33 42 13 13-0003 LF 4' x 2' Precast Reinforced Concrete Box Culvert .....	453.98	51.16
For Each LF Of Cut-Off Section, Add	18.16	
33 42 13 13-0004 LF 4' x 3' Precast Reinforced Concrete Box Culvert .....	536.24	51.16
For Each LF Of Cut-Off Section, Add	21.45	
33 42 13 13-0005 LF 5' x 3' Precast Reinforced Concrete Box Culvert .....	643.86	63.95
For Each LF Of Cut-Off Section, Add	25.75	
33 42 13 13-0006 LF 5' x 4' Precast Reinforced Concrete Box Culvert .....	659.53	63.95
For Each LF Of Cut-Off Section, Add	26.38	
33 42 13 13-0007 LF 5' x 5' Precast Reinforced Concrete Box Culvert .....	667.37	63.95
For Each LF Of Cut-Off Section, Add	26.69	
33 42 13 13-0008 LF 6' x 3' Precast Reinforced Concrete Box Culvert .....	688.10	66.51
For Each LF Of Cut-Off Section, Add	27.52	
33 42 13 13-0009 LF 6' x 4' Precast Reinforced Concrete Box Culvert .....	692.02	66.51
For Each LF Of Cut-Off Section, Add	27.68	
33 42 13 13-0010 LF 6' x 6' Precast Reinforced Concrete Box Culvert .....	762.54	66.51
For Each LF Of Cut-Off Section, Add	30.50	
33 42 13 13-0011 LF 7' x 4' Precast Reinforced Concrete Box Culvert .....	782.82	76.74
For Each LF Of Cut-Off Section, Add	31.31	
33 42 13 13-0012 LF 7' x 6' Precast Reinforced Concrete Box Culvert .....	837.58	104.37
For Each LF Of Cut-Off Section, Add	33.50	
33 42 13 13-0013 LF 8' x 2' Precast Reinforced Concrete Box Culvert .....	766.46	66.51
For Each LF Of Cut-Off Section, Add	30.66	
33 42 13 13-0014 LF 8' x 3' Precast Reinforced Concrete Box Culvert .....	786.74	76.74
For Each LF Of Cut-Off Section, Add	31.47	
33 42 13 13-0015 LF 8' x 4' Precast Reinforced Concrete Box Culvert .....	798.49	76.74
For Each LF Of Cut-Off Section, Add	31.94	
33 42 13 13-0016 LF 8' x 5' Precast Reinforced Concrete Box Culvert .....	963.58	102.32
For Each LF Of Cut-Off Section, Add	38.54	
33 42 13 13-0017 LF 8' x 6' Precast Reinforced Concrete Box Culvert .....	966.71	102.32
For Each LF Of Cut-Off Section, Add	38.67	
33 42 13 13-0018 LF 8' x 8' Precast Reinforced Concrete Box Culvert .....	1,069.91	127.91
For Each LF Of Cut-Off Section, Add	42.80	
33 42 13 13-0019 LF 9' x 4' Precast Reinforced Concrete Box Culvert .....	1,064.65	102.32
For Each LF Of Cut-Off Section, Add	42.59	
33 42 13 13-0020 LF 9' x 6' Precast Reinforced Concrete Box Culvert .....	1,127.10	127.91
For Each LF Of Cut-Off Section, Add	45.08	
33 42 13 13-0021 LF 10' x 3' Precast Reinforced Concrete Box Culvert .....	1,131.02	127.91
For Each LF Of Cut-Off Section, Add	45.24	
33 42 13 13-0022 LF 10' x 4' Precast Reinforced Concrete Box Culvert .....	1,373.90	127.91
For Each LF Of Cut-Off Section, Add	54.96	
33 42 13 13-0023 LF 10' x 5' Precast Reinforced Concrete Box Culvert .....	1,440.29	153.48
For Each LF Of Cut-Off Section, Add	57.61	
33 42 13 13-0024 LF 10' x 6' Precast Reinforced Concrete Box Culvert .....	1,455.95	153.48
For Each LF Of Cut-Off Section, Add	58.24	
33 42 13 13-0025 LF 10' x 7' Precast Reinforced Concrete Box Culvert .....	1,459.87	153.48
For Each LF Of Cut-Off Section, Add	58.39	
33 42 13 13-0026 LF 10' x 8' Precast Reinforced Concrete Box Culvert .....	1,465.36	153.48
For Each LF Of Cut-Off Section, Add	58.61	
33 42 13 13-0027 LF 12' x 3' Precast Reinforced Concrete Box Culvert .....	1,522.32	179.06
For Each LF Of Cut-Off Section, Add	60.89	
33 42 13 13-0028 LF 12' x 4' Precast Reinforced Concrete Box Culvert .....	1,522.32	179.06
For Each LF Of Cut-Off Section, Add	60.89	



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 13	13-0029	LF	12' x 6' Precast Reinforced Concrete Box Culvert ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,522.32 60.89	179.06
33 42 13	13-0030	LF	12' x 8' Precast Reinforced Concrete Box Culvert ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,522.32 60.89	179.06
33 42 13	13-0031	LF	16' x 10' Precast Reinforced Concrete Box Culvert ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,215.49 88.62	204.64
33 42 13	13-0032	LF	24' x 10' Precast Reinforced Concrete Box Culvert ..... <i>For Each LF Of Cut-Off Section, Add</i>	3,077.35 123.09	204.64
<b>33 42 13</b>	<b>13-0033</b>		<b>Precast Reinforced Concrete Box Culvert For Roadways</b> <sup>(33 42 13 13)</sup> Note: AASHTO HL-93 Rated. The quantity required shall be the entire length of the culvert including the length of the cut-off sections. Includes delivery, handling, hoisting into place, alignment, bracing, permanent connections, grouting of joints and caulking of joints. Excludes crane, excavation and backfill. Minimum length 6'-0". See CSI section 01 22 23 00-0882 for crane lifting equipment.		
33 42 13	13-0034	LF	3' x 3' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,002.82 40.11	51.16
33 42 13	13-0035	LF	4' x 2' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,078.07 43.12	51.16
33 42 13	13-0036	LF	4' x 3' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,211.26 48.45	51.16
33 42 13	13-0037	LF	5' x 3' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,369.76 54.79	63.95
33 42 13	13-0038	LF	5' x 4' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,502.95 60.12	63.95
33 42 13	13-0039	LF	5' x 5' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,636.14 65.45	63.95
33 42 13	13-0040	LF	6' x 3' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,508.02 60.32	66.51
33 42 13	13-0041	LF	6' x 4' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,641.21 65.65	66.51
33 42 13	13-0042	LF	6' x 6' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,907.58 76.30	66.51
33 42 13	13-0043	LF	7' x 4' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,794.68 71.79	76.74
33 42 13	13-0044	LF	7' x 6' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,115.78 84.63	104.37
33 42 13	13-0045	LF	8' x 2' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,641.21 65.65	66.51
33 42 13	13-0046	LF	8' x 3' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,794.68 71.79	76.74
33 42 13	13-0047	LF	8' x 4' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	1,927.86 77.11	76.74
33 42 13	13-0048	LF	8' x 5' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,111.72 84.47	102.32
33 42 13	13-0049	LF	8' x 6' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,244.91 89.80	102.32
33 42 13	13-0050	LF	8' x 8' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,561.98 102.48	127.91
33 42 13	13-0051	LF	9' x 4' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,266.70 90.67	102.32
33 42 13	13-0052	LF	9' x 6' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,602.06 104.08	127.91
33 42 13	13-0053	LF	10' x 3' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,573.08 102.92	127.91
33 42 13	13-0054	LF	10' x 4' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,731.23 109.25	127.91
33 42 13	13-0055	LF	10' x 5' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	2,940.08 117.60	153.48
33 42 13	13-0056	LF	10' x 6' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	3,098.23 123.93	153.48
33 42 13	13-0057	LF	10' x 7' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	3,256.41 130.26	153.48
33 42 13	13-0058	LF	10' x 8' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	3,414.56 136.58	153.48
33 42 13	13-0059	LF	12' x 3' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	3,411.43 136.46	179.06
33 42 13	13-0060	LF	12' x 4' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	3,591.19 143.65	179.06
33 42 13	13-0061	LF	12' x 6' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	3,950.79 158.03	179.06
33 42 13	13-0062	LF	12' x 8' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	4,310.38 172.42	179.06
33 42 13	13-0063	LF	16' x 10' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	5,160.19 206.41	204.64
33 42 13	13-0064	LF	24' x 10' Precast Reinforced Concrete Box Culvert For Roadways ..... <i>For Each LF Of Cut-Off Section, Add</i>	6,518.63 260.75	204.64

**33 42 23 Headwalls and Endwalls for Stormwater Piping** <sup>(33 42)</sup>

**33 42 23 00-0001 Headwalls** <sup>(33 42 23)</sup>

Note: Excludes excavation and backfill. Select pipe with closest opening area for square or round culverts.

<b>33</b>	<b>33 Utilities</b>
	<b>33 40 Stormwater Utilities</b>
	<b>33 42 Stormwater Conveyance</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>33 42 23 00-0002</b>	<b>Cast In Place Concrete Headwalls</b> (33 42 23 00-0001) Note: Includes concrete, forms, rebar (where required), finish and curing.		
<b>33 42 23 00-0003</b>	<b>Skewed Wingwall, Cast In Place Concrete Headwall</b> (33 42 23 00-0002) Note: Sized by pipe diameter.		
33 42 23 00-0004	EA 12" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	1,631.54	687.95
33 42 23 00-0005	EA 15" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	2,051.77	733.81
33 42 23 00-0006	EA 18" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	2,687.66	961.19
33 42 23 00-0007	EA 24" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	4,229.61	1,375.89
33 42 23 00-0008	EA 30" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	5,891.31	1,834.52
33 42 23 00-0009	EA 36" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	7,011.93	2,418.11
33 42 23 00-0010	EA 42" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	9,592.30	3,335.48
33 42 23 00-0011	EA 48" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	11,410.51	3,931.08
33 42 23 00-0012	EA 54" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	13,717.87	4,785.77
33 42 23 00-0013	EA 60" Pipe, Skewed Wingwall, Cast In Place Concrete Headwall .....	16,439.31	5,793.24
<b>33 42 23 00-0014</b>	<b>Precast Concrete Headwalls</b> (33 42 23 00-0001)		
33 42 23 00-0015	EA 12" Pipe, Precast Concrete Headwall .....	938.52	171.47
33 42 23 00-0016	EA 15" Pipe, Precast Concrete Headwall .....	967.10	180.99
33 42 23 00-0017	EA 18" Pipe, Precast Concrete Headwall .....	1,062.89	205.77
33 42 23 00-0018	EA 24" Pipe, Precast Concrete Headwall .....	1,176.71	219.10
33 42 23 00-0019	EA 30" Pipe, Precast Concrete Headwall .....	1,603.92	257.21
33 42 23 00-0020	EA 36" Pipe, Precast Concrete Headwall .....	1,795.50	266.73
33 42 23 00-0021	EA 42" Pipe, Precast Concrete Headwall .....	2,380.92	315.76
33 42 23 00-0022	EA 48" Pipe, Precast Concrete Headwall .....	2,634.94	347.89
33 42 23 00-0023	EA 54" Pipe, Precast Concrete Headwall .....	2,913.04	368.35
33 42 23 00-0024	EA 60" Pipe, Precast Concrete Headwall .....	3,314.84	368.35
33 42 23 00-0025	EA 72" Pipe, Precast Concrete Headwall .....	4,036.57	460.44
33 42 23 00-0026	EA 84" Pipe, Precast Concrete Headwall .....	5,768.34	552.53
<b>33 42 23 00-0027</b>	<b>Precast Concrete Wingwalls</b> (33 42 23 00-0001)		
33 42 23 00-0028	EA 18" ID Pipe (26" Hole) Precast Concrete Wingwall .....	5,772.70	1,823.34
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0029	EA 24" ID Pipe (32" Hole) Precast Concrete Wingwall .....	6,079.67	2,025.94
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0030	EA 30" ID Pipe (42" Hole) Precast Concrete Wingwall .....	6,591.27	2,363.59
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0031	EA 33" ID Pipe (46" Hole) Precast Concrete Wingwall .....	7,102.87	2,701.25
	Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
33 42 23 00-0032	EA 36" ID Pipe (50" Hole) Precast Concrete Wingwall .....	7,102.87	2,701.25
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0033	EA 44" ID Pipe (58" Hole) Precast Concrete Wingwall .....	7,307.50	2,836.32
	Note: 12" Thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0034	EA 48" ID Pipe (62" Hole) Precast Concrete Wingwall .....	13,367.34	2,903.84
	Note: 12" thick wall and base. Wingwalls are configured at 0-30 degrees off centerline of pipe.		
33 42 23 00-0035	EA 52" ID Pipe (66" Hole) Precast Concrete Wingwall .....	13,674.31	3,106.44
	Note: 12" thick wall and base. Wingwalls are configured at zero degrees only off centerline of pipe.		
<b>33 42 23 00-0036</b>	<b>Precast Concrete Transverse Drainage Interceptor</b> (33 42 23 00-0001)		
33 42 23 00-0037	EA 34" x 48" x 28" Precast Concrete Transverse Drainage Interceptor With Frame And Grate .....	4,203.57	716.24

**33 42 26 End Sections for Stormwater Piping** (33 42)

**33 42 26 16 Corrugated Metal End Sections for Stormwater Piping** (33 42 26)

<b>33 42 26 16-0001</b>	<b>Corrugated Metal Pipe End Sections</b> (33 42 26 16)		
<b>33 42 26 16-0002</b>	<b>Galvanized Corrugated Steel Pipe End Sections</b> (33 42 26 16-0001)		
<b>33 42 26 16-0003</b>	<b>Type 1 Galvanized Corrugated Steel Pipe End Sections</b> (33 42 26 16-0002) Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.		
33 42 26 16-0004	EA 12" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	268.33	66.68
33 42 26 16-0005	EA 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	311.71	71.45
33 42 26 16-0006	EA 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	364.25	76.21
33 42 26 16-0007	EA 21" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	441.55	83.35
33 42 26 16-0008	EA 24" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe End Section .....	489.20	90.50
<b>33 42 26 16-0009</b>	<b>Type 2 Galvanized Corrugated Steel Pipe End Sections</b> (33 42 26 16-0002) Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.		
33 42 26 16-0010	EA 30" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	790.85	102.41
33 42 26 16-0011	EA 36" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	1,029.14	122.78
33 42 26 16-0012	EA 42" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	1,580.87	143.25
33 42 26 16-0013	EA 48" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	1,931.54	163.72
33 42 26 16-0014	EA 54" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	2,300.67	204.64
33 42 26 16-0015	EA 60" 10 Gauge, Type 2 Galvanized Corrugated Steel Pipe End Section .....	2,686.62	245.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**33 42 26 16-0016**

**Type 3 Or 5 Galvanized Corrugated Steel Pipe End Sections** (33 42 26 16-0002)

Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.

33 42 26 16-0017	EA	12" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	280.39	66.68
33 42 26 16-0018	EA	15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	324.11	71.45
33 42 26 16-0019	EA	18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	383.31	76.21
33 42 26 16-0020	EA	21" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	464.44	83.35
33 42 26 16-0021	EA	24" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	515.16	90.50
33 42 26 16-0022	EA	30" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	870.54	102.41
33 42 26 16-0023	EA	36" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,127.61	122.78
33 42 26 16-0024	EA	42" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	1,796.95	143.25
33 42 26 16-0025	EA	48" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,210.39	163.72
33 42 26 16-0026	EA	54" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	2,582.67	204.64
33 42 26 16-0027	EA	60" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	3,579.76	245.57
33 42 26 16-0028	EA	66" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,060.70	368.35
33 42 26 16-0029	EA	72" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	4,750.51	491.14
33 42 26 16-0030	EA	78" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	5,174.77	526.95
33 42 26 16-0031	EA	84" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe End Section.....	5,609.33	562.77

**33 42 26 16-0032**

**Toe Plate Extensions For Galvanized Corrugated Steel Pipe End Section** (33 42 26 16-0002)

33 42 26 16-0033	EA	Toe Plate Extension For 12" Diameter Galvanized Corrugated Steel Pipe End Section .....	35.07	
33 42 26 16-0034	EA	Toe Plate Extension For 15" Diameter Galvanized Corrugated Steel Pipe End Section .....	39.12	
33 42 26 16-0035	EA	Toe Plate Extension For 18" Diameter Galvanized Corrugated Steel Pipe End Section .....	44.09	
33 42 26 16-0036	EA	Toe Plate Extension For 21" Diameter Galvanized Corrugated Steel Pipe End Section .....	47.94	
33 42 26 16-0037	EA	Toe Plate Extension For 24" Diameter Galvanized Corrugated Steel Pipe End Section .....	53.68	
33 42 26 16-0038	EA	Toe Plate Extension For 30" Diameter Galvanized Corrugated Steel Pipe End Section .....	93.95	
33 42 26 16-0039	EA	Toe Plate Extension For 36" Diameter Galvanized Corrugated Steel Pipe End Section .....	101.09	
33 42 26 16-0040	EA	Toe Plate Extension For 42" Diameter Galvanized Corrugated Steel Pipe End Section .....	138.66	
33 42 26 16-0041	EA	Toe Plate Extension For 48" Diameter Galvanized Corrugated Steel Pipe End Section .....	148.38	
33 42 26 16-0042	EA	Toe Plate Extension For 54" Diameter Galvanized Corrugated Steel Pipe End Section .....	181.26	
33 42 26 16-0043	EA	Toe Plate Extension For 60" Diameter Galvanized Corrugated Steel Pipe End Section .....	185.63	
33 42 26 16-0044	EA	Toe Plate Extension For 66" Diameter Galvanized Corrugated Steel Pipe End Section .....	198.03	
33 42 26 16-0045	EA	Toe Plate Extension For 72" Diameter Galvanized Corrugated Steel Pipe End Section .....	224.91	
33 42 26 16-0046	EA	Toe Plate Extension For 78" Diameter Galvanized Corrugated Steel Pipe End Section .....	251.59	
33 42 26 16-0047	EA	84" Diameter Galvanized Corrugated Steel Pipe End Section Toe Plate Extension.....	257.68	

**33 42 26 16-0048**

**Galvanized Corrugated Steel Pipe-Arch End Sections** (33 42 26 16-0001)

**33 42 26 16-0049**

**Type 1 Galvanized Corrugated Steel Pipe-Arch End Sections** (33 42 26 16-0048)

Note: Used with annular corrugations, no band required. Consists of a 12 gauge steel strap with a 6" bolt and nut.

33 42 26 16-0050	EA	17" x 13" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section .....	311.71	71.45
33 42 26 16-0051	EA	21" x 15" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section .....	364.25	76.21
33 42 26 16-0052	EA	24" x 18" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section .....	441.55	83.35
33 42 26 16-0053	EA	28" x 20" 16 Gauge, Type 1 Galvanized Corrugated Steel Pipe-Arch End Section .....	489.20	90.50

**33 42 26 16-0054**

**Type 2 Galvanized Corrugated Steel Pipe-Arch End Sections** (33 42 26 16-0048)

Note: Partial circumferential rod with two hinge type lugs used with annular corrugations. No band required.

33 42 26 16-0055	EA	17" x 13" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section .....	301.29	71.45
33 42 26 16-0056	EA	21" x 15" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section .....	345.00	76.21
33 42 26 16-0057	EA	24" x 18" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section .....	386.43	83.35
33 42 26 16-0058	EA	28" x 20" 16 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section .....	436.57	90.50
33 42 26 16-0059	EA	35" x 24" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section .....	640.80	102.41
33 42 26 16-0060	EA	42" x 29" 14 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section .....	938.48	122.78
33 42 26 16-0061	EA	49" x 33" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section .....	1,462.25	143.25
33 42 26 16-0062	EA	57" x 38" 12 Gauge, Type 2 Galvanized Corrugated Steel Pipe-Arch End Section .....	1,852.49	163.72

**33 42 26 16-0063**

**Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Sections** (33 42 26 16-0048)

Note: Stubbed with 1' of pipe (excluded in price). Used with all pipe having annular end corrugations.

33 42 26 16-0064	EA	17" x 13" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	306.58	71.45
33 42 26 16-0065	EA	21" x 15" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	356.48	76.21
33 42 26 16-0066	EA	24" x 18" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	404.38	83.35
33 42 26 16-0067	EA	28" x 20" 16 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	457.85	90.50
33 42 26 16-0068	EA	35" x 24" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	676.97	102.41
33 42 26 16-0069	EA	42" x 29" 14 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	987.82	122.78
33 42 26 16-0070	EA	49" x 33" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	1,541.18	143.25
33 42 26 16-0071	EA	57" x 38" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	1,943.33	163.72
33 42 26 16-0072	EA	64" x 43" 12 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	2,337.99	204.64
33 42 26 16-0073	EA	71" x 47" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	3,074.14	245.57
33 42 26 16-0074	EA	77" x 52" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	4,289.89	368.35
33 42 26 16-0075	EA	83" x 57" 10 Gauge, Type 3 Or 5 Galvanized Corrugated Steel Pipe-Arch End Section .....	4,747.45	491.14

**33 42 26 16-0076**

**Toe Plate Extensions For Galvanized Corrugated Steel Pipe-Arch End Section** (33 42 26 16-0048)

33 42 26 16-0077	EA	Toe Plate Extension For 17" x 13" Galvanized Corrugated Steel Pipe-Arch End Section .....	39.12	
33 42 26 16-0078	EA	Toe Plate Extension For 21" x 15" Galvanized Corrugated Steel Pipe-Arch End Section .....	44.09	
33 42 26 16-0079	EA	Toe Plate Extension For 24" x 18" Galvanized Corrugated Steel Pipe-Arch End Section .....	47.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0080 EA Toe Plate Extension For 28" x 20" Galvanized Corrugated Steel Pipe-Arch End Section .....	53.68	
33 42 26 16-0081 EA Toe Plate Extension For 35" x 24" Galvanized Corrugated Steel Pipe-Arch End Section .....	93.95	
33 42 26 16-0082 EA Toe Plate Extension For 42" x 29" Galvanized Corrugated Steel Pipe-Arch End Section .....	101.09	
33 42 26 16-0083 EA Toe Plate Extension For 49" x 33" Galvanized Corrugated Steel Pipe-Arch End Section .....	138.66	
33 42 26 16-0084 EA Toe Plate Extension For 57" x 38" Galvanized Corrugated Steel Pipe-Arch End Section .....	154.36	
33 42 26 16-0085 EA Toe Plate Extension For 64" x 43" Galvanized Corrugated Steel Pipe-Arch End Section .....	181.26	
33 42 26 16-0086 EA Toe Plate Extension For 71" x 47" Galvanized Corrugated Steel Pipe-Arch End Section .....	188.00	
33 42 26 16-0087 EA Toe Plate Extension For 77" x 52" Galvanized Corrugated Steel Pipe-Arch End Section .....	217.40	
33 42 26 16-0088 EA Toe Plate Extension For 83" x 57" Galvanized Corrugated Steel Pipe-Arch End Section .....	246.23	
<b>33 42 26 16-0089 Corrugated Aluminum Pipe End Sections (33 42 26 16-0001)</b>		
<b>33 42 26 16-0090 Corrugated Aluminum Pipe End Sections (33 42 26 16-0089)</b>		
33 42 26 16-0091 EA 12" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section .....	408.48	66.68
33 42 26 16-0092 EA 15" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section .....	471.28	71.45
33 42 26 16-0093 EA 18" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section .....	559.54	76.21
33 42 26 16-0094 EA 21" Diameter 16 Gauge, Corrugated Aluminum Pipe End Section .....	694.72	83.35
33 42 26 16-0095 EA 24" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section .....	909.08	90.50
33 42 26 16-0096 EA 30" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section .....	1,366.42	102.41
33 42 26 16-0097 EA 36" Diameter 14 Gauge, Corrugated Aluminum Pipe End Section .....	1,861.55	122.78
33 42 26 16-0098 EA 36" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....	2,320.08	122.78
33 42 26 16-0099 EA 42" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....	2,960.39	143.25
33 42 26 16-0100 EA 48" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....	4,229.11	163.72
33 42 26 16-0101 EA 54" Diameter 12 Gauge, Corrugated Aluminum Pipe End Section .....	4,682.34	204.64
33 42 26 16-0102 EA 60" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	6,313.87	245.57
33 42 26 16-0103 EA 66" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	7,143.06	368.35
33 42 26 16-0104 EA 72" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	8,349.10	491.14
33 42 26 16-0105 EA 78" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	9,119.52	526.95
33 42 26 16-0106 EA 84" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	9,622.13	562.77
33 42 26 16-0107 EA 90" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	13,178.48	613.92
33 42 26 16-0108 EA 96" Diameter 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	14,590.46	665.08
<b>33 42 26 16-0109 Toe Plate Extensions For Corrugated Aluminum Pipe End Section (33 42 26 16-0089)</b>		
33 42 26 16-0110 EA Toe Plate Extension For 12" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....	63.94	
33 42 26 16-0111 EA Toe Plate Extension For 15" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....	67.84	
33 42 26 16-0112 EA Toe Plate Extension For 18" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....	73.68	
33 42 26 16-0113 EA Toe Plate Extension For 21" Diameter, 16 Gauge, Corrugated Aluminum Pipe End Section .....	83.02	
33 42 26 16-0114 EA Toe Plate Extension For 24" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section .....	88.03	
33 42 26 16-0115 EA Toe Plate Extension For 30" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section .....	113.92	
33 42 26 16-0116 EA Toe Plate Extension For 36" Diameter, 14 Gauge, Corrugated Aluminum Pipe End Section .....	136.17	
33 42 26 16-0117 EA Toe Plate Extension For 36" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....	143.83	
33 42 26 16-0118 EA Toe Plate Extension For 42" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....	157.78	
33 42 26 16-0119 EA Toe Plate Extension For 48" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....	178.34	
33 42 26 16-0120 EA Toe Plate Extension For 54" Diameter, 12 Gauge, Corrugated Aluminum Pipe End Section .....	210.99	
33 42 26 16-0121 EA Toe Plate Extension For 60" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	296.20	
33 42 26 16-0122 EA Toe Plate Extension For 66" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	318.69	
33 42 26 16-0123 EA Toe Plate Extension For 72" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	403.07	
33 42 26 16-0124 EA Toe Plate Extension For 78" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	436.10	
33 42 26 16-0125 EA Toe Plate Extension For 84" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	464.64	
33 42 26 16-0126 EA Toe Plate Extension For 90" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	494.67	
33 42 26 16-0127 EA Toe Plate Extension For 96" Diameter, 12 And 10 Gauge, Corrugated Aluminum Pipe End Section .....	525.01	
<b>33 42 26 16-0128 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0001)</b>		
<b>33 42 26 16-0129 Corrugated Aluminum Pipe-Arch End Sections (33 42 26 16-0128)</b>		
33 42 26 16-0130 EA 17" x 13" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	486.10	71.45
33 42 26 16-0131 EA 21" x 15" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	595.67	76.21
33 42 26 16-0132 EA 24" x 18" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	646.80	83.35
33 42 26 16-0133 EA 28" x 20" 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	697.88	90.50
33 42 26 16-0134 EA 35" x 24" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	1,049.62	102.41
33 42 26 16-0135 EA 42" x 29" 14 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	1,882.62	122.78
33 42 26 16-0136 EA 42" x 29" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	1,998.88	122.78
33 42 26 16-0137 EA 49" x 33" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	2,673.65	143.25
33 42 26 16-0138 EA 57" x 38" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	4,117.45	163.72
33 42 26 16-0139 EA 64" x 43" 12 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	4,712.66	204.64
33 42 26 16-0140 EA 71" x 47" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	5,698.20	245.57
33 42 26 16-0141 EA 77" x 52" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	9,549.61	368.35
33 42 26 16-0142 EA 83" x 57" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	10,013.46	491.14
33 42 26 16-0143 EA 87" x 63" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	10,903.63	526.95
33 42 26 16-0144 EA 95" x 67" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	11,379.46	562.77
33 42 26 16-0145 EA 103" x 71" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	12,403.65	613.92
33 42 26 16-0146 EA 112" x 75" 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	13,138.82	665.08
<b>33 42 26 16-0147 Toe Plate Extensions For Corrugated Aluminum Pipe-Arch End Section (33 42 26 16-0128)</b>		
33 42 26 16-0148 EA Toe Plate Extension For 17" x 13", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	67.84	
33 42 26 16-0149 EA Toe Plate Extension For 21" x 15", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section .....	73.68	



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 16-0150 EA Toe Plate Extension For 24" x 18", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	77.66	
33 42 26 16-0151 EA Toe Plate Extension For 28" x 20", 16 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	85.08	
33 42 26 16-0152 EA Toe Plate Extension For 35" x 24", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	97.08	
33 42 26 16-0153 EA Toe Plate Extension For 42" x 29", 14 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	126.49	
33 42 26 16-0154 EA Toe Plate Extension For 42" x 29", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	138.70	
33 42 26 16-0155 EA Toe Plate Extension For 49" x 33", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	157.78	
33 42 26 16-0156 EA Toe Plate Extension For 57" x 38", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	178.34	
33 42 26 16-0157 EA Toe Plate Extension For 64" x 43", 12 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	210.99	
33 42 26 16-0158 EA Toe Plate Extension For 71" x 47", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	269.04	
33 42 26 16-0159 EA Toe Plate Extension For 77" x 52", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	341.43	
33 42 26 16-0160 EA Toe Plate Extension For 83" x 57", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	459.91	
33 42 26 16-0161 EA Toe Plate Extension For 87" x 63", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	522.62	
33 42 26 16-0162 EA Toe Plate Extension For 95" x 67", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	547.17	
33 42 26 16-0163 EA Toe Plate Extension For 103" x 71", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	567.09	
33 42 26 16-0164 EA Toe Plate Extension For 112" x 75", 12 And 10 Gauge, Corrugated Aluminum Pipe-Arch End Section.....	591.54	
<b>33 42 26 16-0165 Low Slope Corrugated Steel Pipe End Sections And Accessories</b> <small>(33 42 26 16-0001)</small>		
<b>33 42 26 16-0166 4:1 Corrugated Steel Pipe End Sections</b> <small>(33 42 26 16-0165)</small>		
33 42 26 16-0167 EA 15" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	628.44	71.45
33 42 26 16-0168 EA 18" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	811.45	76.21
33 42 26 16-0169 EA 21" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	994.93	83.35
33 42 26 16-0170 EA 24" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	1,191.48	90.50
33 42 26 16-0171 EA 30" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	1,259.68	102.41
33 42 26 16-0172 EA 36" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	1,649.85	122.78
33 42 26 16-0173 EA 42" 16 Gauge, 4:1 Corrugated Steel Pipe End Section.....	2,616.37	143.25
<b>33 42 26 16-0174 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe End Sections</b> <small>(33 42 26 16-0165)</small>		
Note: Includes nut and bolt set.		
33 42 26 16-0175 EA 3" Diameter Parallel Safety Bar For 15" 4:1 Corrugated Steel Pipe End Section.....	449.99	
33 42 26 16-0176 EA 3" Diameter Parallel Safety Bar For 18" 4:1 Corrugated Steel Pipe End Section.....	906.98	
33 42 26 16-0177 EA 3" Diameter Parallel Safety Bar For 21" 4:1 Corrugated Steel Pipe End Section.....	995.32	
33 42 26 16-0178 EA 3" Diameter Parallel Safety Bar For 24" 4:1 Corrugated Steel Pipe End Section.....	1,034.50	
<b>33 42 26 16-0179 6:1 Corrugated Steel Pipe End Sections</b> <small>(33 42 26 16-0165)</small>		
33 42 26 16-0180 EA 15" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	658.55	71.45
33 42 26 16-0181 EA 18" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	865.61	76.21
33 42 26 16-0182 EA 21" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,154.29	83.35
33 42 26 16-0183 EA 24" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,357.12	90.50
33 42 26 16-0184 EA 30" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,611.30	102.41
33 42 26 16-0185 EA 36" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	1,960.21	122.78
33 42 26 16-0186 EA 42" 16 Gauge, 6:1 Corrugated Steel Pipe End Section.....	3,004.68	143.25
<b>33 42 26 16-0187 3" Diameter Parallel Safety Bar For 6:1 Corrugated Steel Pipe End Sections</b> <small>(33 42 26 16-0165)</small>		
Note: Includes nut and bolt set.		
33 42 26 16-0188 EA 3" Diameter Parallel Safety Bar For 15" 6:1 Corrugated Steel Pipe End Section.....	879.62	
33 42 26 16-0189 EA 3" Diameter Parallel Safety Bar For 18" 6:1 Corrugated Steel Pipe End Section.....	933.18	
33 42 26 16-0190 EA 3" Diameter Parallel Safety Bar For 21" 6:1 Corrugated Steel Pipe End Section.....	1,026.28	
33 42 26 16-0191 EA 3" Diameter Parallel Safety Bar For 24" 6:1 Corrugated Steel Pipe End Section.....	1,077.36	
<b>33 42 26 16-0192 Toe Plate Extensions For Low Slope Corrugated Steel Pipe End Section</b> <small>(33 42 26 16-0165)</small>		
33 42 26 16-0193 EA Toe Plate Extension For 15" Low Slope Corrugated Steel Pipe End Section.....	75.81	
33 42 26 16-0194 EA Toe Plate Extension For 18" Low Slope Corrugated Steel Pipe End Section.....	85.25	
33 42 26 16-0195 EA Toe Plate Extension For 21" Low Slope Corrugated Steel Pipe End Section.....	92.80	
33 42 26 16-0196 EA Toe Plate Extension For 24" Low Slope Corrugated Steel Pipe End Section.....	103.68	
33 42 26 16-0197 EA Toe Plate Extension For 30" Low Slope Corrugated Steel Pipe End Section.....	157.08	
33 42 26 16-0198 EA Toe Plate Extension For 36" Low Slope Corrugated Steel Pipe End Section.....	168.61	
33 42 26 16-0199 EA Toe Plate Extension For 42" Low Slope Corrugated Steel Pipe End Section.....	227.07	
<b>33 42 26 16-0200 Low Slope Corrugated Steel Pipe-Arch End Sections And Accessories</b> <small>(33 42 26 16-0001)</small>		
<b>33 42 26 16-0201 4:1 Corrugated Steel Pipe-Arch End Section</b> <small>(33 42 26 16-0200)</small>		
33 42 26 16-0202 EA 21" x 15" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	748.03	76.21
33 42 26 16-0203 EA 24" x 18" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	940.29	83.35
33 42 26 16-0204 EA 28" x 20" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	1,114.11	90.50
33 42 26 16-0205 EA 35" x 24" 16 Gauge, 4:1 Corrugated Steel Pipe-Arch End Section.....	2,109.18	102.41
<b>33 42 26 16-0206 3" Diameter Parallel Safety Bar For 4:1 Corrugated Steel Pipe-Arch End Sections</b> <small>(33 42 26 16-0200)</small>		
Note: Includes nut and bolt set.		

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
33 42 26 16-0207	EA 3" Diameter Parallel Safety Bar For 21" x 15" 4:1 Corrugated Steel Pipe-Arch End Section.....	536.77	
33 42 26 16-0208	EA 3" Diameter Parallel Safety Bar For 24" x 18" 4:1 Corrugated Steel Pipe-Arch End Section.....	982.05	
33 42 26 16-0209	EA 3" Diameter Parallel Safety Bar For 28" x 20" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,034.50	
33 42 26 16-0210	EA 3" Diameter Parallel Safety Bar For 35" x 24" 4:1 Corrugated Steel Pipe-Arch End Section.....	1,524.93	
<b>33 42 26 16-0211</b>	<b>Toe Plate Extensions For Low Slope Corrugated Steel Pipe-Arch End Section</b> <small>(33 42 26 16-0200)</small>		
33 42 26 16-0212	EA Toe Plate Extension For 21" x 15" Low Slope Corrugated Steel Pipe-Arch End Section.....	76.60	
33 42 26 16-0213	EA Toe Plate Extension For 24" x 18" Low Slope Corrugated Steel Pipe-Arch End Section.....	87.01	
33 42 26 16-0214	EA Toe Plate Extension For 28" x 20" Low Slope Corrugated Steel Pipe-Arch End Section.....	94.86	
33 42 26 16-0215	EA Toe Plate Extension For 35" x 24" Low Slope Corrugated Steel Pipe-Arch End Section.....	112.73	
<b>33 42 26 19</b>	<b>Corrugated High-Density Polyethylene (HDPE) End Sections for Stormwater Piping</b> <small>(33 42 26)</small>		
<b>33 42 26 19-0001</b>	<b>Corrugated High Density Polyethylene (HDPE) Pipe End Sections</b> <small>(33 42 26 19)</small>		
33 42 26 19-0002	EA 4" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	69.11	21.98
33 42 26 19-0003	EA 6" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	131.32	32.98
33 42 26 19-0004	EA 8" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	179.44	41.22
33 42 26 19-0005	EA 10" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	282.28	65.96
33 42 26 19-0006	EA 12" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	336.56	74.20
33 42 26 19-0007	EA 15" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	356.96	79.70
33 42 26 19-0008	EA 18" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	427.52	87.95
33 42 26 19-0009	EA 24" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	555.37	104.43
33 42 26 19-0010	EA 30" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	1,176.76	118.17
33 42 26 19-0011	EA 36" End Section, Corrugated High Density Polyethylene (HDPE) Pipe.....	1,439.36	131.91
<b>33 42 26 23</b>	<b>Concrete End Sections for Stormwater Piping</b> <small>(33 42 26)</small>		
<b>33 42 26 23-0001</b>	<b>Precast Concrete End Sections</b> <small>(33 42 26 23)</small>		
<b>33 42 26 23-0002</b>	<b>Precast Concrete End Sections</b> <small>(33 42 26 23-0001)</small>		
33 42 26 23-0003	EA 12" Diameter Pipe, Precast Concrete End Section.....	663.27	111.75
33 42 26 23-0004	EA 15" Diameter Pipe, Precast Concrete End Section.....	890.26	138.32
33 42 26 23-0005	EA 18" Diameter Pipe, Precast Concrete End Section.....	1,102.33	175.09
33 42 26 23-0006	EA 21" Diameter Pipe, Precast Concrete End Section.....	1,265.09	209.39
33 42 26 23-0007	EA 24" Diameter Pipe, Precast Concrete End Section.....	1,344.73	242.34
33 42 26 23-0008	EA 27" Diameter Pipe, Precast Concrete End Section.....	1,694.80	304.92
33 42 26 23-0009	EA 30" Diameter Pipe, Precast Concrete End Section.....	2,101.98	457.98
33 42 26 23-0010	EA 36" Diameter Pipe, Precast Concrete End Section.....	2,595.56	577.91
33 42 26 23-0011	EA 42" Diameter Pipe, Precast Concrete End Section.....	3,140.81	724.94
33 42 26 23-0012	EA 48" Diameter Pipe, Precast Concrete End Section.....	3,442.76	817.54
33 42 26 23-0013	EA 54" Diameter Pipe, Precast Concrete End Section.....	3,755.65	915.76
33 42 26 23-0014	EA 60" Diameter Pipe, Precast Concrete End Section.....	4,076.47	1,018.09
33 42 26 23-0015	EA 66" Diameter Pipe Precast Concrete End Section.....	4,049.93	812.10
33 42 26 23-0016	EA 72" Diameter Pipe Precast Concrete End Section.....	4,639.42	1,015.11
33 42 26 23-0017	EA 78" Diameter Pipe Precast Concrete End Section.....	5,516.69	1,268.89
33 42 26 23-0018	EA 84" Diameter Pipe Precast Concrete End Section.....	6,527.92	1,522.66
<b>33 42 26 23-0019</b>	<b>Flared Precast Concrete End Sections</b> <small>(33 42 26 23-0001)</small>		
33 42 26 23-0020	EA 12" Diameter Pipe, Flared Precast Concrete End Section.....	835.05	119.20
33 42 26 23-0021	EA 15" Diameter Pipe, Flared Precast Concrete End Section.....	1,005.69	148.57
33 42 26 23-0022	EA 18" Diameter Pipe, Flared Precast Concrete End Section.....	1,221.11	188.06
33 42 26 23-0023	EA 21" Diameter Pipe, Flared Precast Concrete End Section.....	1,395.56	224.90
33 42 26 23-0024	EA 24" Diameter Pipe, Flared Precast Concrete End Section.....	1,702.58	260.30
33 42 26 23-0025	EA 27" Diameter Pipe, Flared Precast Concrete End Section.....	2,055.55	415.72
33 42 26 23-0026	EA 30" Diameter Pipe, Flared Precast Concrete End Section.....	2,141.79	572.38
33 42 26 23-0027	EA 36" Diameter Pipe, Flared Precast Concrete End Section.....	2,892.64	722.38
33 42 26 23-0028	EA 42" Diameter Pipe, Flared Precast Concrete End Section.....	3,472.03	906.35
33 42 26 23-0029	EA 48" Diameter Pipe, Flared Precast Concrete End Section.....	3,757.84	1,022.18
33 42 26 23-0030	EA 54" Diameter Pipe, Flared Precast Concrete End Section.....	4,203.22	1,144.86
33 42 26 23-0031	EA 60" Diameter Pipe, Flared Precast Concrete End Section.....	4,657.05	1,271.64
33 42 26 23-0032	EA 66" Diameter Pipe, Flared Precast Concrete End Section.....	5,431.48	1,465.12
33 42 26 23-0033	EA 72" Diameter Pipe, Flared Precast Concrete End Section.....	6,333.47	1,635.29
33 42 26 23-0034	EA 78" Diameter Pipe, Flared Precast Concrete End Section.....	7,181.59	1,839.62
33 42 26 23-0035	EA 84" Diameter Pipe, Flared Precast Concrete End Section.....	8,282.57	2,043.75
<b>33 42 26 23-0036</b>	<b>Elliptical Precast Concrete End Sections</b> <small>(33 42 26 23-0001)</small>		
33 42 26 23-0037	EA 14" x 23" Elliptical Precast Concrete End Section.....	1,455.79	188.06
33 42 26 23-0038	EA 19" x 30" Elliptical Precast Concrete End Section.....	2,030.51	260.30
33 42 26 23-0039	EA 22" x 34" Elliptical Precast Concrete End Section.....	2,413.40	415.72
33 42 26 23-0040	EA 24" x 38" Elliptical Precast Concrete End Section.....	2,462.35	572.38
33 42 26 23-0041	EA 27" x 42" Elliptical Precast Concrete End Section.....	2,903.51	647.69
33 42 26 23-0042	EA 29" x 45" Elliptical Precast Concrete End Section.....	3,344.66	722.38
33 42 26 23-0043	EA 34" x 53" Elliptical Precast Concrete End Section.....	3,999.88	906.35





	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>CS</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 26 23-0044 EA 38" x 60" Elliptical Precast Concrete End Section .....	4,313.62	1,022.18
33 42 26 23-0045 EA 43" x 68" Elliptical Precast Concrete End Section .....	4,824.32	1,144.86
33 42 26 23-0046 EA 48" x 76" Elliptical Precast Concrete End Section .....	5,343.82	1,271.64
<b>33 42 26 23-0047 Mitered Precast Concrete End Sections (33 42 26 23-0001)</b>		
33 42 26 23-0048 EA 12" Round Mitered Precast Concrete End Sections .....	503.76	119.20
33 42 26 23-0049 EA 15" Round Mitered Precast Concrete End Sections .....	546.73	148.57
33 42 26 23-0050 EA 18" Round Mitered Precast Concrete End Sections .....	658.14	188.06
33 42 26 23-0051 EA 24" Round Mitered Precast Concrete End Sections .....	954.48	260.30
33 42 26 23-0052 EA 12" x 18" Elliptical Mitered Precast Concrete End Sections.....	587.48	148.57
33 42 26 23-0053 EA 14" x 23" Elliptical Mitered Precast Concrete End Sections.....	730.57	188.06
33 42 26 23-0054 EA 19" x 30" Elliptical Mitered Precast Concrete End Sections.....	1,042.74	260.30
<b>33 42 31 Stormwater Area Drains and Inlets (33 42 31)</b>		
<b>33 42 31 00-0001 Storm Drains (33 42 31)</b> See CSI section 33 05 61 00-0001 for manhole structures.		
<b>33 42 31 00-0002 Catch Basins And Inlet Basins (33 42 31 00-0001)</b> Note: Includes base slab, opening and grout. Excludes frame, grate, excavation and backfill.		
<b>33 42 31 00-0003 Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0002)</b> Note: Inside dimensions.		
<b>33 42 31 00-0004 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)</b>		
33 42 31 00-0005 EA 2' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	1,960.02	338.37
33 42 31 00-0006 EA 3' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	2,349.82	396.46
33 42 31 00-0007 EA 4' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	2,739.62	454.45
33 42 31 00-0008 EA 5' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	3,129.42	512.55
33 42 31 00-0009 EA 6' Deep, 3' x 3' x 4" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	3,519.22	570.54
<b>33 42 31 00-0010 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)</b>		
33 42 31 00-0011 EA 2' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	2,618.60	336.33
33 42 31 00-0012 EA 3' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	3,216.71	448.44
33 42 31 00-0013 EA 4' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	4,068.28	611.51
33 42 31 00-0014 EA 5' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	4,984.93	713.43
33 42 31 00-0015 EA 6' Deep, 3'-8" x 3'-8" x 6" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	5,664.11	815.34
<b>33 42 31 00-0016 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basins (33 42 31 00-0003)</b>		
33 42 31 00-0017 EA 2' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	2,820.38	366.91
33 42 31 00-0018 EA 3' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	3,911.46	509.59
33 42 31 00-0019 EA 4' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	4,734.31	662.47
33 42 31 00-0020 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	5,465.82	764.38
33 42 31 00-0021 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Grate Drop Inlet Basin .....	6,922.75	978.41
<b>33 42 31 00-0022 Cast In Place, Catch Basin (33 42 31 00-0002)</b> Note: Inside span, overall depth. Includes concrete, forms, rebar (where required), finish and curing.		
<b>33 42 31 00-0023 3' x 3', Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0024 EA 3' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	2,398.25	409.10
33 42 31 00-0025 EA 3'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	2,541.19	434.99
33 42 31 00-0026 EA 4' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	2,786.13	467.19
33 42 31 00-0027 EA 4'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	3,146.06	517.13
33 42 31 00-0028 EA 5' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	3,402.83	550.46
33 42 31 00-0029 EA 5'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	3,560.85	577.26
33 42 31 00-0030 EA 6' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	3,817.81	610.59
33 42 31 00-0031 EA 6'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	3,971.89	637.50
33 42 31 00-0032 EA 7' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	4,230.39	670.73
33 42 31 00-0033 EA 7'-6" Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	4,386.89	697.63
33 42 31 00-0034 EA 8' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	4,643.75	730.95
33 42 31 00-0035 VLF >8' Deep, 3' x 3' x 6" Thick Wall, Cast In Place, Catch Basin .....	580.50	91.32
<b>33 42 31 00-0036 3'-6" x 3'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0037 EA 3' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	2,755.46	472.90
33 42 31 00-0038 EA 3'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	2,935.90	506.12
33 42 31 00-0039 EA 4' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	3,191.33	539.46
33 42 31 00-0040 EA 4'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	3,612.22	597.45
33 42 31 00-0041 EA 5' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	3,893.14	635.16
33 42 31 00-0042 EA 5'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	4,075.12	666.45
33 42 31 00-0043 EA 6' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	4,359.79	704.15
33 42 31 00-0044 EA 6'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	4,541.77	735.44
33 42 31 00-0045 EA 7' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	4,824.11	773.15
33 42 31 00-0046 EA 7'-6" Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	5,006.89	804.44
33 42 31 00-0047 EA 8' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	5,289.33	842.15
33 42 31 00-0048 VLF >8' Deep, 3'-6" x 3'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	661.20	105.28

<b>33</b>	<b>33 Utilities</b>
	<b>33 40 Stormwater Utilities</b>
	<b>33 42 Stormwater Conveyance</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 31 00-0049      4' x 4', Cast In Place, Catch Basins</b> <small>(33 42 31 00-0022)</small>		
33 42 31 00-0050 EA 3' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin .....	3,137.73	540.98
33 42 31 00-0051 EA 3'-6" Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin .....	3,328.67	575.33
33 42 31 00-0052 EA 4' Deep, 4' x 4' x 6" Thick Wall, Cast In Place, Catch Basin .....	3,620.09	615.99
33 42 31 00-0053 EA 4'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....	4,102.56	682.14
33 42 31 00-0054 EA 5' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....	4,411.28	724.23
33 42 31 00-0055 EA 5'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....	4,619.42	760.00
33 42 31 00-0056 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....	4,928.15	802.10
33 42 31 00-0057 EA 6'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....	5,135.51	837.87
33 42 31 00-0058 EA 7' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....	5,444.23	879.96
33 42 31 00-0059 EA 7'-6" Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....	5,652.38	915.73
33 42 31 00-0060 EA 8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....	5,961.10	957.93
33 42 31 00-0061 VLF >8' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Catch Basin .....	745.11	119.76
<b>33 42 31 00-0062      4'-6" x 4'-6", Cast In Place, Catch Basins</b> <small>(33 42 31 00-0022)</small>		
33 42 31 00-0063 EA 3' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	3,617.37	627.30
33 42 31 00-0064 EA 3'-6" Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	3,839.82	662.78
33 42 31 00-0065 EA 4' Deep, 4'-6" x 4'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	4,160.53	708.64
33 42 31 00-0066 EA 4'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	4,710.96	783.86
33 42 31 00-0067 EA 5' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	5,051.91	831.35
33 42 31 00-0068 EA 5'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	5,292.38	872.42
33 42 31 00-0069 EA 6' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	5,634.11	919.91
33 42 31 00-0070 EA 6'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	5,874.59	961.09
33 42 31 00-0071 EA 7' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	6,215.54	1,008.58
33 42 31 00-0072 EA 7'-6" Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	6,454.47	1,049.66
33 42 31 00-0073 EA 8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	6,797.74	1,097.15
33 42 31 00-0074 VLF >8' Deep, 4'-6" x 4'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	849.76	137.18
<b>33 42 31 00-0075      5' x 5', Cast In Place, Catch Basins</b> <small>(33 42 31 00-0022)</small>		
33 42 31 00-0076 EA 4' Deep, 5' x 5' x 6" Thick Wall, Cast In Place, Catch Basin .....	4,653.71	795.67
33 42 31 00-0077 EA 4'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	5,266.82	879.25
33 42 31 00-0078 EA 5' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	5,635.97	931.33
33 42 31 00-0079 EA 5'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	5,903.13	976.98
33 42 31 00-0080 EA 6' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	6,268.43	1,028.97
33 42 31 00-0081 EA 6'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	6,537.12	1,074.62
33 42 31 00-0082 EA 7' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	6,904.75	1,126.71
33 42 31 00-0083 EA 7'-6" Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	7,169.58	1,172.37
33 42 31 00-0084 EA 8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	7,538.74	1,224.34
33 42 31 00-0085 VLF >8' Deep, 5' x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	1,401.70	153.08
<b>33 42 31 00-0086      5'-6" x 5'-6", Cast In Place, Catch Basins</b> <small>(33 42 31 00-0022)</small>		
33 42 31 00-0087 EA 4' Deep, 5'-6" x 5'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	5,170.15	887.30
33 42 31 00-0088 EA 4'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	6,031.23	1,004.41
33 42 31 00-0089 EA 5' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	6,437.72	1,062.29
33 42 31 00-0090 EA 5'-6" Deep, 5'-6" x 5' x 8" Thick Wall, Cast In Place, Catch Basin .....	6,742.20	1,114.17
33 42 31 00-0091 EA 6' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	7,151.01	1,172.47
33 42 31 00-0092 EA 6'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	7,467.51	1,224.34
33 42 31 00-0093 EA 7' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	7,853.02	1,282.64
33 42 31 00-0094 EA 7'-6" Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	8,168.00	1,334.51
33 42 31 00-0095 EA 8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	8,574.49	1,392.81
33 42 31 00-0096 VLF >8' Deep, 5'-6" x 5'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	1,071.80	174.08
<b>33 42 31 00-0097      6' x 6', Cast In Place, Catch Basins</b> <small>(33 42 31 00-0022)</small>		
33 42 31 00-0098 EA 4' Deep, 6' x 6' x 6" Thick Wall, Cast In Place, Catch Basin .....	5,714.41	983.21
33 42 31 00-0099 EA 4'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin .....	6,663.16	1,111.72
33 42 31 00-0100 EA 5' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin .....	7,098.47	1,174.71
33 42 31 00-0101 EA 5'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin .....	7,431.00	1,231.28
33 42 31 00-0102 EA 6' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin .....	7,864.77	1,294.26
33 42 31 00-0103 EA 6'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin .....	8,199.61	1,350.82
33 42 31 00-0104 EA 7' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin .....	8,632.61	1,413.81
33 42 31 00-0105 EA 7'-6" Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin .....	8,965.92	1,470.38
33 42 31 00-0106 EA 8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin .....	9,401.24	1,533.36
33 42 31 00-0107 VLF >8' Deep, 6' x 6' x 8" Thick Wall, Cast In Place, Catch Basin .....	1,175.20	191.71
<b>33 42 31 00-0108      6'-6" x 6'-6", Cast In Place, Catch Basins</b> <small>(33 42 31 00-0022)</small>		
33 42 31 00-0109 EA 4' Deep, 6'-6" x 6'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	6,282.61	1,083.70
33 42 31 00-0110 EA 4'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	7,553.75	1,255.53
33 42 31 00-0111 EA 5' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	8,029.87	1,325.25
33 42 31 00-0112 EA 5'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	8,405.41	1,388.53
33 42 31 00-0113 EA 6' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	8,881.52	1,458.15
33 42 31 00-0114 EA 6'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	9,257.07	1,521.54
33 42 31 00-0115 EA 7' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	9,733.18	1,591.15
33 42 31 00-0116 EA 7'-6" Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	10,108.72	1,654.44
33 42 31 00-0117 EA 8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	10,587.16	1,724.15



	<b>Utilities</b>	<b>33</b>	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0118 VLF >8' Deep, 6'-6" x 6'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	1,323.34	215.56
<b>33 42 31 00-0119 7' x 7', Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0120 EA 4' Deep, 7' x 7' x 6" Thick Wall, Cast In Place, Catch Basin .....	6,876.49	1,188.57
33 42 31 00-0121 EA 4'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin .....	8,267.26	1,376.10
33 42 31 00-0122 EA 5' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin .....	8,772.81	1,450.70
33 42 31 00-0123 EA 5'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin .....	9,175.57	1,518.79
33 42 31 00-0124 EA 6' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin .....	9,682.55	1,593.29
33 42 31 00-0125 EA 6'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin .....	10,085.31	1,661.47
33 42 31 00-0126 EA 7' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin .....	10,590.86	1,735.97
33 42 31 00-0127 EA 7'-6" Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin .....	10,995.16	1,804.15
33 42 31 00-0128 EA 8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin .....	11,500.61	1,878.66
33 42 31 00-0129 VLF >8' Deep, 7' x 7' x 8" Thick Wall, Cast In Place, Catch Basin .....	1,437.63	234.82
<b>33 42 31 00-0130 7'-6" x 7'-6", Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0131 EA 4' Deep, 7'-6" x 7'-6" x 6" Thick Wall, Cast In Place, Catch Basin .....	7,760.73	1,334.01
33 42 31 00-0132 EA 4'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	9,010.31	1,501.56
33 42 31 00-0133 EA 5' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	9,542.97	1,580.96
33 42 31 00-0134 EA 5'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	9,976.70	1,653.93
33 42 31 00-0135 EA 6' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	10,510.81	1,733.32
33 42 31 00-0136 EA 6'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	10,944.54	1,806.30
33 42 31 00-0137 EA 7' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	11,477.20	1,885.69
33 42 31 00-0138 EA 7'-6" Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	11,910.94	1,958.66
33 42 31 00-0139 EA 8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	12,445.14	2,038.06
33 42 31 00-0140 VLF >8' Deep, 7'-6" x 7'-6" x 8" Thick Wall, Cast In Place, Catch Basin .....	1,555.61	254.79
<b>33 42 31 00-0141 8' x 8', Cast In Place, Catch Basins (33 42 31 00-0022)</b>		
33 42 31 00-0142 EA 4' Deep, 8' x 8' x 6" Thick Wall, Cast In Place, Catch Basin .....	8,430.91	1,451.42
33 42 31 00-0143 EA 4'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....	9,780.35	1,631.92
33 42 31 00-0144 EA 5' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....	10,341.77	1,716.10
33 42 31 00-0145 EA 5'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....	10,804.94	1,793.96
33 42 31 00-0146 EA 6' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....	11,366.26	1,878.15
33 42 31 00-0147 EA 6'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....	11,826.35	1,956.01
33 42 31 00-0148 EA 7' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....	12,390.74	2,040.20
33 42 31 00-0149 EA 7'-6" Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....	12,853.91	2,118.07
33 42 31 00-0150 EA 8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....	13,406.19	2,202.25
33 42 31 00-0151 VLF >8' Deep, 8' x 8' x 8" Thick Wall, Cast In Place, Catch Basin .....	1,676.90	275.28
<b>33 42 31 00-0152 Precast Concrete Catch Basins (33 42 31 00-0002)</b>		
Note: Inside dimensions.		
<b>33 42 31 00-0153 1'-6" Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0154 EA 4' Deep, 1'-6" Diameter Precast Catch Basins .....	771.53	208.67
33 42 31 00-0155 EA 6' Deep, 1'-6" Diameter Precast Catch Basins .....	1,058.13	313.01
33 42 31 00-0156 EA 8' Deep, 1'-6" Diameter Precast Catch Basins .....	1,328.16	406.91
33 42 31 00-0157 EA 10' Deep, 1'-6" Diameter Precast Catch Basins .....	1,597.56	480.98
33 42 31 00-0158 EA 12' Deep, 1'-6" Diameter Precast Catch Basins .....	1,954.41	610.36
33 42 31 00-0159 EA 14' Deep, 1'-6" Diameter Precast Catch Basins .....	2,231.41	704.26
33 42 31 00-0160 VLF Vertical Linear Foot Over 14' Deep, 1'-6" Diameter Precast Catch Basins .....	154.21	46.95
<b>33 42 31 00-0161 2' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0162 EA 4' Deep, 2' Diameter Precast Catch Basin .....	882.98	232.14
33 42 31 00-0163 EA 6' Deep, 2' Diameter Precast Catch Basin .....	1,204.13	344.31
33 42 31 00-0164 EA 8' Deep, 2' Diameter Precast Catch Basin .....	1,506.00	453.86
33 42 31 00-0165 EA 10' Deep, 2' Diameter Precast Catch Basin .....	1,806.58	529.50
33 42 31 00-0166 EA 12' Deep, 2' Diameter Precast Catch Basin .....	2,221.59	678.18
33 42 31 00-0167 EA 14' Deep, 2' Diameter Precast Catch Basin .....	2,533.37	782.52
33 42 31 00-0168 VLF Vertical Linear Foot Over 14' Deep, 2' Diameter Precast Catch Basin .....	175.04	56.34
<b>33 42 31 00-0169 3' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0170 EA 4' Deep, 3' Diameter Precast Catch Basin .....	1,190.64	273.88
33 42 31 00-0171 EA 6' Deep, 3' Diameter Precast Catch Basin .....	1,601.48	404.82
33 42 31 00-0172 EA 8' Deep, 3' Diameter Precast Catch Basin .....	1,991.74	534.72
33 42 31 00-0173 EA 10' Deep, 3' Diameter Precast Catch Basin .....	2,480.81	667.75
33 42 31 00-0174 EA 12' Deep, 3' Diameter Precast Catch Basin .....	2,923.09	796.08
33 42 31 00-0175 EA 14' Deep, 3' Diameter Precast Catch Basin .....	3,346.41	926.50
33 42 31 00-0176 VLF Vertical Linear Foot Over 14' Deep, 3' Diameter Precast Catch Basin .....	228.35	66.17
<b>33 42 31 00-0177 4' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0178 EA 4' Deep, 4' Diameter Precast Catch Basin .....	1,460.53	304.66
33 42 31 00-0179 EA 6' Deep, 4' Diameter Precast Catch Basin .....	1,883.47	417.34
33 42 31 00-0180 EA 8' Deep, 4' Diameter Precast Catch Basin .....	2,471.38	626.01
33 42 31 00-0181 EA 10' Deep, 4' Diameter Precast Catch Basin .....	3,083.48	782.52

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0182 EA 12' Deep, 4' Diameter Precast Catch Basin .....	3,634.87	939.02
33 42 31 00-0183 EA 14' Deep, 4' Diameter Precast Catch Basin .....	4,163.93	1,095.53
33 42 31 00-0184 VLF Vertical Linear Foot Over 14' Deep, 4' Diameter Precast Catch Basin .....	283.38	78.25
<b>33 42 31 00-0185 5' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0186 EA 4' Deep, 5' Diameter Precast Catch Basin .....	1,960.80	417.34
33 42 31 00-0187 EA 6' Deep, 5' Diameter Precast Catch Basin .....	2,643.23	626.01
33 42 31 00-0188 EA 8' Deep, 5' Diameter Precast Catch Basin .....	3,328.72	834.68
33 42 31 00-0189 EA 10' Deep, 5' Diameter Precast Catch Basin .....	4,056.57	1,043.36
33 42 31 00-0190 EA 12' Deep, 5' Diameter Precast Catch Basin .....	4,770.29	1,252.02
33 42 31 00-0191 EA 14' Deep, 5' Diameter Precast Catch Basin .....	5,543.88	1,460.70
33 42 31 00-0192 VLF Vertical Linear Foot Over 14' Deep, 5' Diameter Precast Catch Basin .....	376.89	104.34
<b>33 42 31 00-0193 6' Diameter Precast Catch Basins (33 42 31 00-0152)</b>		
33 42 31 00-0194 EA 4' Deep, 6' Diameter Precast Catch Basin .....	2,858.04	626.01
33 42 31 00-0195 EA 6' Deep, 6' Diameter Precast Catch Basin .....	3,806.72	939.02
33 42 31 00-0196 EA 8' Deep, 6' Diameter Precast Catch Basin .....	4,831.73	1,252.02
33 42 31 00-0197 EA 10' Deep, 6' Diameter Precast Catch Basin .....	6,018.18	1,565.03
33 42 31 00-0198 EA 12' Deep, 6' Diameter Precast Catch Basin .....	7,161.67	1,878.04
33 42 31 00-0199 EA 14' Deep, 6' Diameter Precast Catch Basin .....	8,270.35	2,191.04
33 42 31 00-0200 VLF Vertical Linear Foot Over 14' Deep, 6' Diameter Precast Catch Basin .....	561.09	156.51
<b>33 42 31 00-0201 Precast Catch Basins Accessories (33 42 31 00-0152)</b>		
33 42 31 00-0202 EA Single Or Double Wing Slab Top With Throat.....	1,494.45	678.18
33 42 31 00-0203 EA 4' x 4' Weir Box, Precast Catch Basin.....	860.00	83.47
33 42 31 00-0204 EA 4' Diameter Inlet Round To Square Adapter, Precast Catch Basin.....	450.90	88.68
33 42 31 00-0205 EA 3' Diameter, Up To 6" High, Precast Extension Ring .....	548.57	130.42
For Each Additional Inch In Height, Add	69.68	
33 42 31 00-0206 EA 4' Diameter, Up To 6" High, Precast Extension Ring .....	645.05	156.51
For Each Additional Inch In Height, Add	81.40	
33 42 31 00-0207 EA 5' Diameter, Up To 6" High, Precast Extension Ring .....	752.62	182.59
For Each Additional Inch In Height, Add	95.04	
33 42 31 00-0208 EA 6' Diameter, Up To 6" High, Precast Extension Ring .....	917.53	260.84
For Each Additional Inch In Height, Add	109.50	
33 42 31 00-0209 EA Adjust Existing Catch Basin Inlet Grate To Match Grade.....	625.98	
<b>33 42 31 00-0210 Catch Basin Risers (33 42 31 00-0152)</b>		
33 42 31 00-0211 EA Up To 860 Square Inch, Up to 2" Rise, Catch Basin Riser .....	401.79	
33 42 31 00-0212 EA >860 To 1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	449.72	
33 42 31 00-0213 EA >1140 Square Inch, Up To 2" Rise, Catch Basin Riser.....	506.76	
33 42 31 00-0214 EA Up To 860 Square Inch, >2" To 3" Rise, Catch Basin Riser .....	432.71	
33 42 31 00-0215 EA >860 To 1140 Square Inch, >2" To 3" Rise, Catch Basin Riser.....	483.85	
33 42 31 00-0216 EA >1140 Square Inch, >2" To 3" Rise, Catch Basin Riser .....	547.07	
33 42 31 00-0217 EA Up To 860 Square Inch, >3" To 4" Rise, Catch Basin Riser .....	479.21	
33 42 31 00-0218 EA >860 To 1140 Square Inch, >3" To 4" Rise, Catch Basin Riser.....	524.60	
33 42 31 00-0219 EA >1140 Square Inch, >3" To 4" Rise, Catch Basin Riser .....	588.02	
<b>33 42 31 00-0220 Cast In Place, Storm Drain Cleanout (33 42 31 00-0002)</b>		
Note: Inside span.		
33 42 31 00-0221 EA 6' Deep, 4' x 4' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout .....	5,094.62	806.99
33 42 31 00-0222 EA 6' Deep, 4' x 5' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout .....	5,794.10	920.93
33 42 31 00-0223 EA 6' Deep, 4' x 6' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout .....	6,571.55	1,045.17
33 42 31 00-0224 EA 7' Deep, 4' x 7' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout .....	7,890.55	1,253.80
33 42 31 00-0225 EA 8' Deep, 4' x 8' x 8" Thick Wall, Cast In Place, Storm Drain Cleanout .....	9,560.16	1,513.69
<b>33 42 31 00-0226 Precast Concrete Inlet Boxes (33 42 31 00-0002)</b>		
Note: Inside dimensions.		
<b>33 42 31 00-0227 Precast Concrete Inlet Boxes (33 42 31 00-0226)</b>		
<b>33 42 31 00-0228 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
Note: Yard inlet.		
<b>33 42 31 00-0229 24" x 24" ID, Precast Concrete Inlet Boxes (33 42 31 00-0228)</b>		
33 42 31 00-0230 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	815.76	73.03
33 42 31 00-0231 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	958.67	88.68
33 42 31 00-0232 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,101.59	104.34
33 42 31 00-0233 EA 42" Height, 24" x 24" ID, Precast Concrete Inlet Box.....	1,245.81	120.64
<b>33 42 31 00-0234 24" x 24" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0228)</b>		
33 42 31 00-0235 EA 6" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	200.29	
33 42 31 00-0236 EA 12" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	327.57	
33 42 31 00-0237 EA 18" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	465.26	
33 42 31 00-0238 EA 24" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	602.97	
33 42 31 00-0239 EA 30" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser.....	740.66	



	<b>Utilities</b>	<b>33</b>
	<b>Stormwater Utilities</b>	<b>33 40</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0240 EA 36" Height, 24" x 24" ID, Precast Concrete Inlet Box Riser .....	878.36	
<b>33 42 31 00-0241 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0242 22" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0241)</b>		
33 42 31 00-0243 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,664.30	204.64
33 42 31 00-0244 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	1,871.29	236.62
33 42 31 00-0245 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,078.27	268.59
33 42 31 00-0246 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,285.41	300.64
33 42 31 00-0247 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,492.55	332.70
33 42 31 00-0248 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,699.68	364.75
33 42 31 00-0249 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box.....	2,906.83	396.80
<b>33 42 31 00-0250 22" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0241)</b>		
33 42 31 00-0251 EA 6" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	391.90	
33 42 31 00-0252 EA 12" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	637.73	
33 42 31 00-0253 EA 18" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	689.94	
33 42 31 00-0254 EA 24" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	885.15	
33 42 31 00-0255 EA 30" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	1,080.35	
33 42 31 00-0256 EA 36" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	1,267.49	
33 42 31 00-0257 EA 42" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	1,474.48	
33 42 31 00-0258 EA 48" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	1,681.46	
33 42 31 00-0259 EA 54" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	1,888.60	
33 42 31 00-0260 EA 60" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	2,095.74	
33 42 31 00-0261 EA 66" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	2,302.87	
33 42 31 00-0262 EA 72" Height, 22" x 48" ID, Precast Concrete Inlet Box Riser .....	2,510.01	
<b>33 42 31 00-0263 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0264 30" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0263)</b>		
33 42 31 00-0265 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,600.72	225.10
33 42 31 00-0266 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	1,807.60	260.28
33 42 31 00-0267 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,014.47	295.45
33 42 31 00-0268 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,221.51	330.71
33 42 31 00-0269 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,428.55	365.96
33 42 31 00-0270 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,635.60	401.22
33 42 31 00-0271 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box.....	2,842.63	436.48
<b>33 42 31 00-0272 30" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0263)</b>		
33 42 31 00-0273 EA 6" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	387.94	
33 42 31 00-0274 EA 12" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	624.43	
33 42 31 00-0275 EA 18" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	677.66	
33 42 31 00-0276 EA 24" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	868.41	
33 42 31 00-0277 EA 30" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	1,059.17	
33 42 31 00-0278 EA 36" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	1,248.91	
33 42 31 00-0279 EA 42" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	1,452.96	
33 42 31 00-0280 EA 48" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	1,655.99	
33 42 31 00-0281 EA 54" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	1,860.05	
33 42 31 00-0282 EA 60" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	2,063.08	
33 42 31 00-0283 EA 66" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	2,267.14	
33 42 31 00-0284 EA 72" Height, 30" x 48" ID, Precast Concrete Inlet Box Riser .....	2,471.21	
<b>33 42 31 00-0285 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0286 42" x 48" ID, Precast Concrete Inlet Boxes (33 42 31 00-0285)</b>		
33 42 31 00-0287 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	1,907.23	245.57
33 42 31 00-0288 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,150.33	285.47
33 42 31 00-0289 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,393.43	326.41
33 42 31 00-0290 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,635.52	366.30
33 42 31 00-0291 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	2,878.62	407.23
33 42 31 00-0292 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,121.73	447.14
33 42 31 00-0293 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box.....	3,363.81	487.05
<b>33 42 31 00-0294 42" x 48" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0285)</b>		
33 42 31 00-0295 EA 6" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	429.62	
33 42 31 00-0296 EA 12" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	705.78	
33 42 31 00-0297 EA 18" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	760.52	
33 42 31 00-0298 EA 24" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	977.53	
33 42 31 00-0299 EA 30" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	1,194.55	
33 42 31 00-0300 EA 36" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	1,411.56	
33 42 31 00-0301 EA 42" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	1,642.39	
33 42 31 00-0302 EA 48" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	1,873.21	
33 42 31 00-0303 EA 54" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	2,104.03	
33 42 31 00-0304 EA 60" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	2,334.87	
33 42 31 00-0305 EA 66" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser .....	2,565.70	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0306 EA 72" Height, 42" x 48" ID, Precast Concrete Inlet Box Riser.....	2,796.51	
<b>33 42 31 00-0307 42" x 48" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0285)</b>		
33 42 31 00-0308 EA 42" x 48" ID, Precast Concrete Inlet Box Top Slab .....	1,079.78	153.48
<b>33 42 31 00-0309 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0310 48" x 54" ID, Precast Concrete Inlet Boxes (33 42 31 00-0309)</b>		
33 42 31 00-0311 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	2,717.57	272.86
33 42 31 00-0312 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,043.89	317.70
33 42 31 00-0313 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,370.22	362.55
33 42 31 00-0314 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	3,696.20	407.23
33 42 31 00-0315 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,022.19	451.93
33 42 31 00-0316 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,348.18	496.61
33 42 31 00-0317 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box.....	4,674.18	541.30
<b>33 42 31 00-0318 48" x 54" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0309)</b>		
33 42 31 00-0319 EA 6" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	431.02	
33 42 31 00-0320 EA 12" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	694.93	
33 42 31 00-0321 EA 18" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,016.83	
33 42 31 00-0322 EA 24" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,338.72	
33 42 31 00-0323 EA 30" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,643.55	
33 42 31 00-0324 EA 36" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	1,965.44	
33 42 31 00-0325 EA 42" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,291.77	
33 42 31 00-0326 EA 48" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,618.09	
33 42 31 00-0327 EA 54" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	2,944.07	
33 42 31 00-0328 EA 60" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,270.06	
33 42 31 00-0329 EA 66" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,596.06	
33 42 31 00-0330 EA 72" Height, 48" x 54" ID, Precast Concrete Inlet Box Riser.....	3,922.05	
<b>33 42 31 00-0331 48" x 54" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0309)</b>		
33 42 31 00-0332 EA 48" x 54" ID, Precast Concrete Inlet Box Top Slab .....	1,173.63	166.27
<b>33 42 31 00-0333 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0334 48" x 66" ID, Precast Concrete Inlet Boxes (33 42 31 00-0333)</b>		
33 42 31 00-0335 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,128.34	343.80
33 42 31 00-0336 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,485.89	401.23
33 42 31 00-0337 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	3,843.43	458.68
33 42 31 00-0338 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,200.35	515.80
33 42 31 00-0339 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,557.26	572.92
33 42 31 00-0340 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	4,914.17	630.04
33 42 31 00-0341 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box.....	5,271.08	687.17
<b>33 42 31 00-0342 48" x 66" ID, Precast Concrete Inlet Box Risers (33 42 31 00-0333)</b>		
33 42 31 00-0343 EA 6" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	471.87	
33 42 31 00-0344 EA 12" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	743.18	
33 42 31 00-0345 EA 18" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,100.45	
33 42 31 00-0346 EA 24" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,457.71	
33 42 31 00-0347 EA 30" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	1,786.33	
33 42 31 00-0348 EA 36" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,143.58	
33 42 31 00-0349 EA 42" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,501.13	
33 42 31 00-0350 EA 48" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	2,858.68	
33 42 31 00-0351 EA 54" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,215.59	
33 42 31 00-0352 EA 60" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,572.50	
33 42 31 00-0353 EA 66" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	3,929.41	
33 42 31 00-0354 EA 72" Height, 48" x 66" ID, Precast Concrete Inlet Box Riser.....	4,286.32	
<b>33 42 31 00-0355 48" x 66" ID, Precast Concrete Inlet Box Tops (33 42 31 00-0333)</b>		
33 42 31 00-0356 EA 48" x 66" ID, Precast Concrete Inlet Box Top Slab .....	1,304.59	186.22
<b>33 42 31 00-0357 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0227)</b>		
<b>33 42 31 00-0358 42" x 102" ID, Precast Concrete Inlet Boxes (33 42 31 00-0357)</b>		
33 42 31 00-0359 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	3,912.86	463.51
33 42 31 00-0360 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,364.73	540.25
33 42 31 00-0361 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	4,816.60	615.97
33 42 31 00-0362 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,267.44	692.71
33 42 31 00-0363 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	5,719.31	768.43
33 42 31 00-0364 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	6,170.16	844.14
33 42 31 00-0365 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box.....	6,623.05	920.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 42 31 00-0366</b> <b>42" x 102" ID, Precast Concrete Inlet Box Risers</b> (33 42 31 00-0357)		
33 42 31 00-0367 EA 6" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	629.90	
33 42 31 00-0368 EA 12" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	975.36	
33 42 31 00-0369 EA 18" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	1,420.06	
33 42 31 00-0370 EA 24" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	1,864.77	
33 42 31 00-0371 EA 30" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	2,279.80	
33 42 31 00-0372 EA 36" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	2,724.50	
33 42 31 00-0373 EA 42" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	3,176.37	
33 42 31 00-0374 EA 48" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	3,628.24	
33 42 31 00-0375 EA 54" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	4,079.08	
33 42 31 00-0376 EA 60" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	4,530.95	
33 42 31 00-0377 EA 66" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	4,981.80	
33 42 31 00-0378 EA 72" Height, 42" x 102" ID, Precast Concrete Inlet Box Riser .....	5,433.66	
<b>33 42 31 00-0379</b> <b>42" x 102" ID, Precast Concrete Inlet Box Tops</b> (33 42 31 00-0357)		
33 42 31 00-0380 EA 42" x 102" ID, Precast Concrete Inlet Box Top Slab .....	1,786.84	204.64
<b>33 42 31 00-0381</b> <b>Frames And Grates For Inlets</b> (33 42 31 00-0226)		
<b>33 42 31 00-0382</b> <b>Inlet Frames And Grates</b> (33 42 31 00-0381)		
33 42 31 00-0383 EA 24" x 24", Heavy Duty Inlet Grate .....	403.86	47.63
Note: For type A, B, D, or E inlets.		
33 42 31 00-0384 EA 47-3/4" x 21-3/4", Bicycle Safe Inlet Grate (US Foundry 6352 GRT).....	526.54	47.63
Note: For type A, B, D, or E inlets.		
33 42 31 00-0385 EA 47-3/4" x 21-3/4", Phase II Stormwater Compliant Inlet Grate (US Foundry 6352 GRT).....	526.54	47.63
Note: Includes legend: Dump No Waste "Drains To Waterways".		
33 42 31 00-0386 EA Phase II Storm Water Compliant Grate, Echo Grate, Type "B" And "D" Inlet Covers (US Foundry 6352 GRT .....	526.54	47.63
Note: Legend: Dump No Waste "Drains to Waterways"		
33 42 31 00-0387 EA Parallel Bar Grates For Type A, B, D And E Inlets (Campbell Foundry 2617-0362).....	577.88	47.63
33 42 31 00-0388 EA Type B Inlet Dirt Plate (US Foundry 5217 BK).....	416.44	95.26
33 42 31 00-0389 EA Back Plate For Type B Inlets (Campbell Foundry 2548-1942).....	488.32	95.26
33 42 31 00-0390 EA Phase II Echo-Safe Bar For Series 2500/2600 Curb Inlets (Campbell Foundry 25419EC4) .....	607.82	119.08
Note: Includes cam action clamping system, stainless steel badge labeled to center of plate, steel plate welded to bar with legend: Dump No Waste "Drains to Waterways".		
33 42 31 00-0391 EA 1-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	515.40	119.08
33 42 31 00-0392 EA 2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	525.67	119.08
33 42 31 00-0393 EA 2-1/2" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	546.21	119.08
33 42 31 00-0394 EA 3" Catch Basin Riser For Type B And D Inlets (General Foundries 6352 EXT).....	566.74	119.08
33 42 31 00-0395 EA 2" Extension Frame For Type A Inlet (General Foundries 6352 EXT) .....	546.21	119.08
33 42 31 00-0396 EA 2-1/2" Extension Frame For Type A Inlet (General Foundries 6352 EXT).....	566.74	119.08
33 42 31 00-0397 EA 3" Extension Frame For Type A Inlet (General Foundries 6352 EXT) .....	587.28	119.08
33 42 31 00-0398 EA 2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	854.26	119.08
33 42 31 00-0399 EA 2-1/2" Extension Frame For Type E Inlet (General Foundries 6352 EXT).....	895.33	119.08
33 42 31 00-0400 EA 3" Extension Frame For Type E Inlet (General Foundries 6352 EXT) .....	936.41	119.08
33 42 31 00-0401 EA 2", 3 Sided Extension Frame For Type A, B, D, And E Inlet (Campbell Foundry 2701).....	628.35	119.08
33 42 31 00-0402 EA 6" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N6) .....	566.74	119.08
33 42 31 00-0403 EA 8" Type N Curb Back Piece For Type B And D Inlets (US Foundry 5218N8) .....	566.74	119.08
33 42 31 00-0404 EA 6" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-6).....	1,184.63	119.08
33 42 31 00-0405 EA 8" Radius Curb Back Piece For Type B And D Inlets (Campbell Foundry BSCB-8).....	1,184.63	119.08
33 42 31 00-0406 EA Safety Bars For Type B And D Inlets (General Foundries 5218 SB) .....	467.34	130.98
33 42 31 00-0407 EA 6", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 648).....	662.44	130.98
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0408 EA 8", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 848).....	662.44	130.98
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0409 EA 10", Phase II Echo-Safe Catch Basin Curb Inlet Cover (Campbell Foundry ERSS 1048).....	734.32	130.98
Note: Includes cam action clamping system and stainless steel badge labeled to center of plate.		
33 42 31 00-0410 EA Type B Inlet Frame (US Foundry 5216 FRM) .....	847.27	130.98
33 42 31 00-0411 EA Type D Inlet Frame (US Foundry 2999 FRM).....	724.05	130.98
33 42 31 00-0412 EA Type B Inlet Frame (Campbell Foundry 2618-0202).....	1,042.38	130.98
33 42 31 00-0413 EA Type D Inlet Frame (Campbell Foundry 2617-0002) .....	919.15	130.98
33 42 31 00-0414 EA Type A Inlet, Single Frame And Grate (US Foundry 52340).....	1,181.99	190.53
33 42 31 00-0415 EA Type E Inlet, Single Frame And Grate (US Foundry 52342).....	1,921.33	190.53
33 42 31 00-0416 EA Type A Inlet, Single Frame And Grate (General Foundries 52340).....	1,151.19	190.53
33 42 31 00-0417 EA Type E Inlet, Double Frame And Grate (General Foundries 52342).....	1,824.80	190.53
33 42 31 00-0418 EA Oversized Type A Inlet, Single Frame And Reticuline Grate (US Foundry 82340) .....	1,937.28	285.78
33 42 31 00-0419 EA Heavy Duty Rectangular Frame And Grate (Campbell Foundry 3084).....	1,972.70	381.05
33 42 31 00-0420 EA 6" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52186).....	2,168.87	381.05
33 42 31 00-0421 EA 8" Curb Piece, Type B Inlet Frame And Grate (US Foundry 52198).....	2,168.87	381.05
33 42 31 00-0422 EA 6" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72266) .....	1,912.16	381.05
33 42 31 00-0423 EA 8" Curb Piece, Type D Inlet Frame And Grate (US Foundry 72268) .....	1,912.16	381.05
33 42 31 00-0424 EA Type B And C Inlet Frame And Grate With Type N Curb And Back Plate (Campbell Foundry GFI 52198).....	2,251.02	381.05
<b>33 42 31 00-0425</b> <b>Catch Basin Frames And Covers</b> (33 42 31 00-0001)		
<b>33 42 31 00-0426</b> <b>Cast Iron Frames And Covers</b> (33 42 31 00-0425)		
33 42 31 00-0427 EA 18" Diameter Cast Iron Catch Basin Frame And Cover .....	782.70	104.34
33 42 31 00-0428 EA 22" Diameter Cast Iron Catch Basin Frame And Cover.....	989.50	117.90
33 42 31 00-0429 EA 24" Diameter Cast Iron Catch Basin Frame And Cover.....	1,119.86	122.07

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0430 EA 26" Diameter Cast Iron Catch Basin Frame And Cover .....	1,261.91	141.90
33 42 31 00-0431 EA 28" Diameter Cast Iron Catch Basin Frame And Cover .....	1,479.20	161.72
33 42 31 00-0432 EA 32" Diameter Cast Iron Catch Basin Frame And Cover .....	2,357.87	169.02
33 42 31 00-0433 EA 16" x 16" Cast Iron Catch Basin Frame And Cover .....	1,278.66	128.33
33 42 31 00-0434 EA 18" x 24" Cast Iron Catch Basin Frame And Cover .....	1,666.62	148.16
33 42 31 00-0435 EA 20" x 27" Cast Iron Catch Basin Frame And Cover .....	1,884.28	154.41
33 42 31 00-0436 EA 23" x 23" Cast Iron Catch Basin Frame And Cover .....	1,780.62	154.41
33 42 31 00-0437 EA 24" x 24" Cast Iron Catch Basin Frame And Cover .....	1,840.42	160.68
33 42 31 00-0438 EA 26" x 26" Cast Iron Catch Basin Frame And Cover .....	1,976.23	166.94
33 42 31 00-0439 EA 24" x 36" Cast Iron Catch Basin Frame And Cover .....	2,375.22	179.46
<b>33 42 31 00-0440 Area Yard Drain (33 42 31 00-0001)</b> See CSI section 22 14 26 16-0001 for drains.		
<b>33 42 31 00-0441 Ductile Iron Grates (33 42 31 00-0440)</b> Note: Not for traffic loading.		
33 42 31 00-0442 EA 8" Diameter Ductile Iron Grate Adapter Necks Down To 4" and 6" Diameter Pipe .....	173.84	41.22
33 42 31 00-0443 EA 10" Diameter Ductile Iron Grate Adapters To 4", 6", or 8" Diameter Pipe .....	212.98	43.97
33 42 31 00-0444 EA 12" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe .....	494.56	54.96
33 42 31 00-0445 EA 15" Diameter Ductile Iron Grate Adapters To 4" Through 12" Diameter Pipe .....	590.95	65.96
<b>33 42 31 00-0446 Concrete Drainage Inlet Structures (CALTRANS) (33 42 31 00-0001)</b>		
<b>33 42 31 00-0447 Type OS Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0448 EA 3' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,331.74	
33 42 31 00-0449 EA 4' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,875.46	
33 42 31 00-0450 EA 5' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,382.12	
33 42 31 00-0451 EA 6' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,851.69	
33 42 31 00-0452 EA 7' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,284.20	
33 42 31 00-0453 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,679.64	
33 42 31 00-0454 EA 8' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....	7,728.36	
33 42 31 00-0455 EA 10' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,015.80	
33 42 31 00-0456 EA 12' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,206.93	
33 42 31 00-0457 EA 14' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,303.86	
33 42 31 00-0458 EA 16' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,368.06	
33 42 31 00-0459 EA 18' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,351.27	
33 42 31 00-0460 EA 20' Deep Type OS Concrete Drainage Inlet Structure, 8" Wall Thickness .....	14,253.47	
<b>33 42 31 00-0461 Type OL-7 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0462 EA 3' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,536.83	
33 42 31 00-0463 EA 4' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,046.65	
33 42 31 00-0464 EA 5' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,519.40	
33 42 31 00-0465 EA 6' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,955.06	
33 42 31 00-0466 EA 7' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,352.61	
33 42 31 00-0467 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,714.15	
33 42 31 00-0468 EA 8' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,702.02	
33 42 31 00-0469 EA 10' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,960.05	
33 42 31 00-0470 EA 12' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,121.78	
33 42 31 00-0471 EA 14' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,188.27	
33 42 31 00-0472 EA 16' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,227.50	
33 42 31 00-0473 EA 18' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	14,185.72	
33 42 31 00-0474 EA 20' Deep Type OL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	15,062.95	
<b>33 42 31 00-0475 Type OL-10 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0476 EA 3' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,647.41	
33 42 31 00-0477 EA 4' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,126.20	
33 42 31 00-0478 EA 5' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,566.88	
33 42 31 00-0479 EA 6' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,971.52	
33 42 31 00-0480 EA 7' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,338.04	
33 42 31 00-0481 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,667.52	
33 42 31 00-0482 EA 8' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,675.67	
33 42 31 00-0483 EA 10' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,903.26	
33 42 31 00-0484 EA 12' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,036.64	
33 42 31 00-0485 EA 14' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,073.73	
33 42 31 00-0486 EA 16' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	14,086.93	
33 42 31 00-0487 EA 18' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	15,020.17	
33 42 31 00-0488 EA 20' Deep Type OL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	15,871.37	
<b>33 42 31 00-0489 Type OL-14 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0490 EA 3' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,230.59	
33 42 31 00-0491 EA 4' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,663.91	
33 42 31 00-0492 EA 5' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,060.19	
33 42 31 00-0493 EA 6' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,419.39	
33 42 31 00-0494 EA 7' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,741.51	
33 42 31 00-0495 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	9,026.57	
33 42 31 00-0496 EA 8' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,055.02	





	<b>Utilities</b>	<b>33</b>	
	Stormwater Utilities	33 40	33
	Stormwater Conveyance	33 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0497 EA 10' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,240.87	
33 42 31 00-0498 EA 12' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,331.47	
33 42 31 00-0499 EA 14' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	14,326.82	
33 42 31 00-0500 EA 16' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	15,305.60	
33 42 31 00-0501 EA 18' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	16,202.31	
33 42 31 00-0502 EA 20' Deep Type OL-14 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	17,018.04	
<b>33 42 31 00-0503 Type OL-21 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0504 EA 3' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	10,444.17	
33 42 31 00-0505 EA 4' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	10,786.74	
33 42 31 00-0506 EA 5' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	11,092.23	
33 42 31 00-0507 EA 6' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	11,360.66	
33 42 31 00-0508 EA 7' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	11,590.97	
33 42 31 00-0509 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	11,785.25	
33 42 31 00-0510 EA 8' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,752.84	
33 42 31 00-0511 EA 10' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	14,856.61	
33 42 31 00-0512 EA 12' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	15,865.12	
33 42 31 00-0513 EA 14' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	16,778.38	
33 42 31 00-0514 EA 16' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	17,687.30	
33 42 31 00-0515 EA 18' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	18,514.19	
33 42 31 00-0516 EA 20' Deep Type OL-21 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	19,260.07	
<b>33 42 31 00-0517 Type GOL-7 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0518 EA 3' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,505.64	
33 42 31 00-0519 EA 4' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,068.80	
33 42 31 00-0520 EA 5' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,589.58	
33 42 31 00-0521 EA 6' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,067.99	
33 42 31 00-0522 EA 7' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,505.06	
33 42 31 00-0523 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,900.78	
33 42 31 00-0524 EA 8' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,061.08	
33 42 31 00-0525 EA 10' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,462.51	
33 42 31 00-0526 EA 12' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,756.91	
33 42 31 00-0527 EA 14' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,943.23	
33 42 31 00-0528 EA 16' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	15,101.19	
33 42 31 00-0529 EA 18' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	16,168.08	
33 42 31 00-0530 EA 20' Deep Type GOL-7 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	17,142.86	
<b>33 42 31 00-0531 Type GOL-10 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0532 EA 3' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,710.74	
33 42 31 00-0533 EA 4' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,238.94	
33 42 31 00-0534 EA 5' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,725.82	
33 42 31 00-0535 EA 6' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,171.35	
33 42 31 00-0536 EA 7' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,574.50	
33 42 31 00-0537 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,935.29	
33 42 31 00-0538 EA 8' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,095.59	
33 42 31 00-0539 EA 10' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,465.20	
33 42 31 00-0540 EA 12' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,727.77	
33 42 31 00-0541 EA 14' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	14,883.31	
33 42 31 00-0542 EA 16' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	16,014.13	
33 42 31 00-0543 EA 18' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	17,053.90	
33 42 31 00-0544 EA 20' Deep Type GOL-10 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	18,002.61	
<b>33 42 31 00-0545 Type G-1 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0546 EA 3' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,244.78	
33 42 31 00-0547 EA 4' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,686.78	
33 42 31 00-0548 EA 5' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,098.08	
33 42 31 00-0549 EA 6' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,480.79	
33 42 31 00-0550 EA 7' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,834.89	
33 42 31 00-0551 EA 8' Deep Type G-1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,158.31	
<b>33 42 31 00-0552 Type G-2 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0553 EA 3' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,095.45	
33 42 31 00-0554 EA 4' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,593.09	
33 42 31 00-0555 EA 5' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,056.82	
33 42 31 00-0556 EA 6' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,486.64	
33 42 31 00-0557 EA 7' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,882.57	
33 42 31 00-0558 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,243.52	
33 42 31 00-0559 EA 8' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	7,099.55	
33 42 31 00-0560 EA 10' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,287.53	
33 42 31 00-0561 EA 12' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,387.86	
33 42 31 00-0562 EA 14' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,400.55	
33 42 31 00-0563 EA 16' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,383.05	
33 42 31 00-0564 EA 18' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,291.08	
33 42 31 00-0565 EA 20' Deep Type G-2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,123.55	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>33 42 31 00-0566</b>	<b>Type G-3 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)		
33 42 31 00-0567	EA	3' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,433.83
33 42 31 00-0568	EA	4' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,870.04
33 42 31 00-0569	EA	5' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,276.63
33 42 31 00-0570	EA	6' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,654.61
33 42 31 00-0571	EA	7' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,001.89
33 42 31 00-0572	EA	8' Deep Type G-3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,320.58
<b>33 42 31 00-0573</b>	<b>Type G-4_24 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)		
33 42 31 00-0574	EA	3' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,000.93
33 42 31 00-0575	EA	4' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,501.46
33 42 31 00-0576	EA	5' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,968.08
33 42 31 00-0577	EA	6' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,399.74
33 42 31 00-0578	EA	7' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,798.53
33 42 31 00-0579	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,162.39
33 42 31 00-0580	EA	8' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	7,058.98
33 42 31 00-0581	EA	10' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,248.92
33 42 31 00-0582	EA	12' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,350.16
33 42 31 00-0583	EA	14' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,363.78
33 42 31 00-0584	EA	16' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,347.03
33 42 31 00-0585	EA	18' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,255.79
33 42 31 00-0586	EA	20' Deep Type G-4_24 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,090.05
<b>33 42 31 00-0587</b>	<b>Type G-4_18 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)		
33 42 31 00-0588	EA	3' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,095.45
33 42 31 00-0589	EA	4' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,593.09
33 42 31 00-0590	EA	5' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,056.82
33 42 31 00-0591	EA	6' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,486.64
33 42 31 00-0592	EA	7' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,882.57
33 42 31 00-0593	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,243.52
33 42 31 00-0594	EA	8' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	7,099.55
33 42 31 00-0595	EA	10' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,287.53
33 42 31 00-0596	EA	12' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,387.86
33 42 31 00-0597	EA	14' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,400.55
33 42 31 00-0598	EA	16' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,383.05
33 42 31 00-0599	EA	18' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,291.08
33 42 31 00-0600	EA	20' Deep Type G-4_18 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	13,123.55
<b>33 42 31 00-0601</b>	<b>Type G-5 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)		
33 42 31 00-0602	EA	3' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,410.20
33 42 31 00-0603	EA	4' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,846.88
33 42 31 00-0604	EA	5' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,254.96
33 42 31 00-0605	EA	6' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,632.35
33 42 31 00-0606	EA	7' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,981.15
33 42 31 00-0607	EA	8' Deep Type G-5 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,300.29
<b>33 42 31 00-0608</b>	<b>Type G-6 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)		
33 42 31 00-0609	EA	3' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,457.46
33 42 31 00-0610	EA	4' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,893.21
33 42 31 00-0611	EA	5' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,299.33
33 42 31 00-0612	EA	6' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,675.81
33 42 31 00-0613	EA	7' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,022.63
33 42 31 00-0614	EA	8' Deep Type G-6 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,340.86
<b>33 42 31 00-0615</b>	<b>Type GT1 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)		
33 42 31 00-0616	EA	3' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,111.51
33 42 31 00-0617	EA	4' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,793.87
33 42 31 00-0618	EA	5' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,480.36
33 42 31 00-0619	EA	6' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,019.72
33 42 31 00-0620	EA	7' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,562.15
33 42 31 00-0621	EA	8' Deep Type GT1 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,058.98
<b>33 42 31 00-0622</b>	<b>Type GT2 Concrete Drainage Inlet Structure</b> (33 42 31 00-0446)		
33 42 31 00-0623	EA	3' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,985.79
33 42 31 00-0624	EA	4' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,729.03
33 42 31 00-0625	EA	5' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,420.12
33 42 31 00-0626	EA	6' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,060.13
33 42 31 00-0627	EA	7' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,648.00
33 42 31 00-0628	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,184.77
33 42 31 00-0629	EA	8' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,953.58
33 42 31 00-0630	EA	10' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,705.16
33 42 31 00-0631	EA	12' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	14,325.77
33 42 31 00-0632	EA	14' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	15,816.45



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Stormwater Utilities</b>	<b>33 40</b>	
<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 31 00-0633 EA 16' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	17,264.90	
33 42 31 00-0634 EA 18' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	18,601.89	
33 42 31 00-0635 EA 20' Deep Type GT2 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	19,827.43	
<b>33 42 31 00-0636 Type GT3 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0637 EA 3' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,087.89	
33 42 31 00-0638 EA 4' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,770.71	
33 42 31 00-0639 EA 5' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,407.93	
33 42 31 00-0640 EA 6' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,998.51	
33 42 31 00-0641 EA 7' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,541.40	
33 42 31 00-0642 EA 8' Deep Type GT3 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,038.70	
<b>33 42 31 00-0643 Type GT4 Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0644 EA 3' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,151.19	
33 42 31 00-0645 EA 4' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,889.12	
33 42 31 00-0646 EA 5' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,575.95	
33 42 31 00-0647 EA 6' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,210.65	
33 42 31 00-0648 EA 7' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	7,794.26	
33 42 31 00-0649 EA 8' Deep Type GT4 Concrete Drainage Inlet Structure, 6" Wall Thickness .....	8,326.76	
33 42 31 00-0650 EA 8' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,973.87	
33 42 31 00-0651 EA 10' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,724.99	
33 42 31 00-0652 EA 12' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	14,345.14	
33 42 31 00-0653 EA 14' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	15,834.31	
33 42 31 00-0654 EA 16' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	17,282.39	
33 42 31 00-0655 EA 18' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	18,619.02	
33 42 31 00-0656 EA 20' Deep Type GT4 Concrete Drainage Inlet Structure, 8" Wall Thickness .....	19,844.19	
<b>33 42 31 00-0657 Type GO Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0658 EA 3' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	2,930.04	
33 42 31 00-0659 EA 4' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,409.82	
33 42 31 00-0660 EA 5' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,856.62	
33 42 31 00-0661 EA 6' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,270.43	
33 42 31 00-0662 EA 7' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,651.24	
33 42 31 00-0663 EA 8' Deep Type GO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,000.11	
33 42 31 00-0664 EA 8' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	6,876.42	
33 42 31 00-0665 EA 10' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,028.77	
33 42 31 00-0666 EA 12' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	9,094.44	
33 42 31 00-0667 EA 14' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,075.56	
33 42 31 00-0668 EA 16' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,028.79	
33 42 31 00-0669 EA 18' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,908.10	
33 42 31 00-0670 EA 20' Deep Type GO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,715.56	
<b>33 42 31 00-0671 Type GDO Concrete Drainage Inlet Structure (33 42 31 00-0446)</b>		
33 42 31 00-0672 EA 3' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	3,827.96	
33 42 31 00-0673 EA 4' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	4,458.74	
33 42 31 00-0674 EA 5' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,046.31	
33 42 31 00-0675 EA 6' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	5,591.72	
33 42 31 00-0676 EA 7' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,092.88	
33 42 31 00-0677 EA 8' Deep Type GDO Concrete Drainage Inlet Structure, 6" Wall Thickness .....	6,551.87	
33 42 31 00-0678 EA 8' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	8,844.01	
33 42 31 00-0679 EA 10' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	10,329.40	
33 42 31 00-0680 EA 12' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	11,704.51	
33 42 31 00-0681 EA 14' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	12,970.37	
33 42 31 00-0682 EA 16' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	14,198.93	
33 42 31 00-0683 EA 18' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	15,333.63	
33 42 31 00-0684 EA 20' Deep Type GDO Concrete Drainage Inlet Structure, 8" Wall Thickness .....	16,374.43	
<b>33 42 33 Stormwater Curbside Drains and Inlets (33 42)</b>		
<b>33 42 33 00-0001 Curb Inlet Frames And Covers (33 42 33)</b>		
<b>33 42 33 00-0002 Cast Iron Curb Inlet Frames And Covers (33 42 33 00-0001)</b>		
33 42 33 00-0003 EA 20" x 22" Cast Iron Curb Inlet Frame And Cover .....	1,595.68	122.07
33 42 33 00-0004 EA 22" x 24" Cast Iron Curb Inlet Frame And Cover .....	1,706.27	141.90
33 42 33 00-0005 EA 24" x 24" Cast Iron Curb Inlet Frame And Cover .....	1,774.19	141.90
33 42 33 00-0006 EA 27" x 27" Cast Iron Curb Inlet Frame And Cover .....	1,942.88	166.94
33 42 33 00-0007 EA 36" x 24" Cast Iron Curb Inlet Frame And Cover .....	1,922.20	178.41
<b>33 42 36 Stormwater Trench Drains (33 42)</b>		
<b>33 42 36 00-0001 Modular Trench Drains (33 42 36)</b>		
See CSI section 03 31 13 00-0011 for concrete.		
<b>33 42 36 00-0002 Modular Trench Drains (33 42 36 00-0001)</b>		
Note: Excludes grates. See CSI section 33 42 36 00-0118 for grates.		

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0003 4" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0004 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0003)		
33 42 36 00-0005 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0006 LF 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain (Zurn Z844-C).....	66.36	16.70
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	99.22	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	198.45	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	317.52	
For Type 304 Stainless Steel Top Veneer Frame, Add	79.38	
For Aluminum Veneer Bronze Anodized Frame, Add	39.69	
33 42 36 00-0007 Outlet Adapters For 4 Wide, High Density Polyethylene, Shallow Modular Trench Drains (33 42 36 00-0004)		
33 42 36 00-0008 EA Closed End Cap For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain.....	50.73	
33 42 36 00-0009 EA No-Hub End Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain.....	61.18	
33 42 36 00-0010 EA No-Hub Bottom Outlet For 4" Wide, High Density Polyethylene, Shallow Modular Trench Drain.....	61.18	
33 42 36 00-0011 6" Wide, Modular Trench Drains (33 42 36 00-0002)		
33 42 36 00-0012 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0013 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0014 LF 6" Wide, High Density Polyethylene, Modular Trench Drain.....	203.11	16.70
For Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	99.22	
For Galvanized Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	198.45	
For Stainless Steel Extra Heavy Duty Frame Assembly With Anchor Studs And Grate Lockdown, Add	317.52	
For Type 304 Stainless Steel Top Veneer Frame, Add	79.38	
For Aluminum Veneer Bronze Anodized Frame, Add	39.69	
33 42 36 00-0015 Outlet Adapters For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0016 EA Closed End Cap For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	92.30	
33 42 36 00-0017 EA No-Hub End Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	102.75	
33 42 36 00-0018 EA No-Hub Bottom Outlet For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	102.75	
33 42 36 00-0019 Other Fittings For 6" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0012)		
33 42 36 00-0020 EA Bottom Dome Strainer For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	178.38	
33 42 36 00-0021 EA Joint Connector For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	178.38	
33 42 36 00-0022 EA 90 Degree, 45 Degree, Tee Or Side Outlet Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	845.97	
33 42 36 00-0023 EA Cross For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	1,639.77	
33 42 36 00-0024 EA Cutting Charge For 6" Wide, High Density Polyethylene, Modular Trench Drains.....	198.45	
33 42 36 00-0025 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0026 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0027 LF 6" Wide, Fiber Reinforced Polyester, Modular Trench Drain.....	296.38	16.70
For Black Acid Resistant Coated Frame, Add	75.41	
For Galvanized Top Frame Assembly, Add	75.41	
For Type 304 Stainless Steel Top Frame Assembly, Add	277.83	
33 42 36 00-0028 Outlet Adapters For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0029 EA Closed End Cap For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	100.24	
33 42 36 00-0030 EA No-Hub End Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	110.69	
33 42 36 00-0031 EA No-Hub Bottom Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	110.69	
33 42 36 00-0032 Other Fittings For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains (33 42 36 00-0025)		
33 42 36 00-0033 EA Bottom Dome Strainer For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	178.38	
33 42 36 00-0034 EA Joint Connector For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	178.38	
33 42 36 00-0035 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	845.97	
33 42 36 00-0036 EA Cross For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	1,639.77	
33 42 36 00-0037 EA Cutting Charge For 6" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	198.45	
33 42 36 00-0038 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0011)		
33 42 36 00-0039 6" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0038)		



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Stormwater Utilities</b>	<b>33 40</b>	
<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0040 LF 6" Wide, Vinylester Fiberglass, Modular Trench Drain..... <i>For Black Acid Resistant Coated Frame, Add</i> <i>For Galvanized Top Frame Assembly, Add</i> <i>For Type 304 Stainless Steel Top Frame Assembly, Add</i>	383.70 75.41 75.41 277.83	16.70
<b>33 42 36 00-0041 Outlet Adapters For 6" Wide, Vinylester Fiberglass, Modular Trench Drains</b> <small>(33 42 36 00-0039)</small>		
33 42 36 00-0042 EA Closed End Cap For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	163.74	
33 42 36 00-0043 EA No-Hub End Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	174.19	
33 42 36 00-0044 EA No-Hub Bottom Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	174.19	
<b>33 42 36 00-0045 Other Fittings For 6" Wide, Vinylester Fiberglass, Modular Trench Drains</b> <small>(33 42 36 00-0039)</small>		
33 42 36 00-0046 EA Bottom Dome Strainer For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	178.38	
33 42 36 00-0047 EA Joint Connector For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	178.38	
33 42 36 00-0048 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	845.97	
33 42 36 00-0049 EA Cross For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	1,639.77	
33 42 36 00-0050 EA Cutting Charge For 6" Wide, Vinylester Fiberglass, Modular Trench Drains .....	198.45	
<b>33 42 36 00-0051 6" Wide, Polymer Concrete, Modular Trench Drains</b> <small>(33 42 36 00-0011)</small>		
<b>33 42 36 00-0052 6" Wide, Polymer Concrete, Modular Trench Drains</b> <small>(33 42 36 00-0051)</small>		
33 42 36 00-0053 LF 6" Wide, Polymer Concrete, Modular Trench Drain .....	473.66	
<b>33 42 36 00-0054 Outlet Adapters For 6" Wide, Polymer Concrete, Modular Trench Drains</b> <small>(33 42 36 00-0051)</small>		
33 42 36 00-0055 EA Closed End Cap For 6" Wide, Polymer Concrete, Modular Trench Drain .....	187.30	
33 42 36 00-0056 EA No-Hub End Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain .....	227.78	
33 42 36 00-0057 EA No-Hub Bottom Outlet For 6" Wide, Polymer Concrete, Modular Trench Drain .....	70.60	
<b>33 42 36 00-0058 12" Wide, Modular Trench Drains</b> <small>(33 42 36 00-0002)</small>		
<b>33 42 36 00-0059 12" Wide, High Density Polyethylene, Modular Trench Drains</b> <small>(33 42 36 00-0058)</small>		
<b>33 42 36 00-0060 12" Wide, High Density Polyethylene, Modular Trench Drains</b> <small>(33 42 36 00-0059)</small>		
33 42 36 00-0061 LF 12" Wide, High Density Polyethylene, Modular Trench Drain .....	383.27 103.19 108.16 619.16	22.96
<i>For Acid Resistant Coated Top Frame, Add</i>		
<i>For Galvanized Welded Frame Assembly, Add</i>		
<i>For Type 304 Stainless Steel Top Frame, Add</i>		
<b>33 42 36 00-0062 Outlet Adapters For 12" Wide, High Density Polyethylene, Modular Trench Drains</b> <small>(33 42 36 00-0059)</small>		
33 42 36 00-0063 EA End Cap For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	190.55	
33 42 36 00-0064 EA No-Hub End Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	204.47	
33 42 36 00-0065 EA No-Hub Bottom Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	204.47	
<b>33 42 36 00-0066 Other Fittings For 12" Wide, High Density Polyethylene, Modular Trench Drains</b> <small>(33 42 36 00-0059)</small>		
33 42 36 00-0067 EA Bottom Dome Strainer For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	319.08	
33 42 36 00-0068 EA Joint Connector For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	418.30	
33 42 36 00-0069 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	1,667.85	
33 42 36 00-0070 EA Cross For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	3,255.45	
33 42 36 00-0071 EA Cutting Charges For 12" Wide, High Density Polyethylene, Modular Trench Drains .....	396.90	
<b>33 42 36 00-0072 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> <small>(33 42 36 00-0058)</small>		
<b>33 42 36 00-0073 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> <small>(33 42 36 00-0072)</small>		
33 42 36 00-0074 LF 12" Wide, Fiber Reinforced Polyester, Modular Trench Drain .....	482.50 103.19 108.16 619.16	22.96
<i>For Acid Resistant Coated Top Frame, Add</i>		
<i>For Galvanized Welded Frame Assembly, Add</i>		
<i>For Type 304 Stainless Steel Top Frame, Add</i>		
<b>33 42 36 00-0075 Outlet Adapters For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> <small>(33 42 36 00-0072)</small>		
33 42 36 00-0076 EA End Cap For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	198.49	
33 42 36 00-0077 EA No-Hub End Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	212.41	
33 42 36 00-0078 EA No-Hub Bottom Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	212.41	
<b>33 42 36 00-0079 Other Fittings For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains</b> <small>(33 42 36 00-0072)</small>		
33 42 36 00-0080 EA Bottom Dome Strainer For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	319.08	

**33 Utilities****33 40 Stormwater Utilities****33 42 Stormwater Conveyance**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 42 36 00-0081 EA Joint Connector For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	418.30	
33 42 36 00-0082 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	1,667.85	
33 42 36 00-0083 EA Cross For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains .....	3,255.45	
33 42 36 00-0084 EA Cutting Charges For 12" Wide, Fiber Reinforced Polyester, Modular Trench Drains.....	396.90	
<b>33 42 36 00-0085 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)</b>		
<b>33 42 36 00-0086 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)</b>		
33 42 36 00-0087 LF 12" Wide, Vinylester Fiberglass, Modular Trench Drain.....	680.95	22.96
<i>For Acid Resistant Coated Top Frame, Add</i>	103.19	
<i>For Galvanized Welded Frame Assembly, Add</i>	108.16	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	619.16	
<b>33 42 36 00-0088 Outlet Adapters For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)</b>		
33 42 36 00-0089 EA End Cap For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	496.16	
33 42 36 00-0090 EA No-Hub End Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	510.08	
33 42 36 00-0091 EA No-Hub Bottom Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	510.08	
<b>33 42 36 00-0092 Other Fittings For 12" Wide, Vinylester Fiberglass, Modular Trench Drains (33 42 36 00-0085)</b>		
33 42 36 00-0093 EA Bottom Dome Strainer For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	319.08	
33 42 36 00-0094 EA Joint Connector For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	418.30	
33 42 36 00-0095 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	1,667.85	
33 42 36 00-0096 EA Cross For 12" Wide, Vinylester Fiberglass, Modular Trench Drains .....	3,255.45	
33 42 36 00-0097 EA Cutting Charges For 12" Wide, Vinylester Fiberglass, Modular Trench Drains.....	396.90	
<b>33 42 36 00-0098 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)</b>		
<b>33 42 36 00-0099 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0098)</b>		
33 42 36 00-0100 LF 12" Wide, Polymer Concrete, Modular Trench Drain .....	635.33	
<b>33 42 36 00-0101 Outlet Adapters For 12" Wide, Polymer Concrete, Modular Trench Drains (33 42 36 00-0099)</b>		
33 42 36 00-0102 EA Closed End Cap For 12" Wide, Polymer Concrete, Modular Trench Drain .....	319.13	
33 42 36 00-0103 EA No-Hub End Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain .....	550.30	
33 42 36 00-0104 EA No-Hub Bottom Outlet For 12" Wide, Polymer Concrete, Modular Trench Drain.....	124.85	
<b>33 42 36 00-0105 23" Wide, Modular Trench Drains (33 42 36 00-0105)</b>		
<b>33 42 36 00-0106 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)</b>		
<b>33 42 36 00-0107 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)</b>		
33 42 36 00-0108 LF 23" Wide, High Density Polyethylene, Modular Trench Drain .....	537.48	31.31
<i>For Acid Resistant Coated Frame, Add</i>	154.79	
<i>For Galvanized Frame Assembly, Add</i>	154.79	
<i>For Type 304 Stainless Steel Top Frame, Add</i>	952.56	
<b>33 42 36 00-0109 Outlet Adapters For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)</b>		
33 42 36 00-0110 EA End Cap For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	608.64	
33 42 36 00-0111 EA No-Hub End Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	886.54	
33 42 36 00-0112 EA No-Hub Bottom Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	886.54	
<b>33 42 36 00-0113 Other Fittings For 23" Wide, High Density Polyethylene, Modular Trench Drains (33 42 36 00-0106)</b>		
33 42 36 00-0114 EA Bottom Dome Strainer For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	725.88	
33 42 36 00-0115 EA 90 Degree, 45 Degree, Tee Or Side Outlet For 23" Wide, High Density Polyethylene, Modular Trench Drains .....	3,305.61	
33 42 36 00-0116 EA Cross For 23" Wide, High Density Polyethylene, Modular Trench Drains.....	6,480.81	
33 42 36 00-0117 EA Cutting Charges For 23" Wide, High Density Polyethylene, Modular Trench Drains .....	793.80	
<b>33 42 36 00-0118 Modular Trench Drain Grates (33 42 36 00-0118)</b>		
<b>33 42 36 00-0119 4" Wide, Modular Trench Drain Grates (33 42 36 00-0118)</b>		
33 42 36 00-0120 LF 4" Wide, Polypropylene, Silver Heel Proof, Modular Trench Drain Grate (Zurn Z884-P4-HPP).....	43.31	3.13
33 42 36 00-0121 LF 4" Wide, Class C Cast Iron, Modular Trench Drain Grate (Zurn Z884-P4-CG).....	45.55	3.13
33 42 36 00-0122 LF 4" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	36.59	3.13
33 42 36 00-0123 LF 4" Wide, Stainless Steel Slotted, Modular Trench Drain Grate (Zurn Z884-P4-FS).....	98.20	3.13
33 42 36 00-0124 LF 4" Wide, Galvanized Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FG).....	36.59	3.13
33 42 36 00-0125 LF 4" Wide, Stainless Steel Perforated, Modular Trench Drain Grate (Zurn Z884-P4-FS) .....	98.20	3.13



	<b>Utilities</b>	<b>33</b>	
	<b>Stormwater Utilities</b>	<b>33 40</b>	<b>33</b>
	<b>Stormwater Conveyance</b>	<b>33 42</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>33 42 36 00-0126</b>	<b>6" Wide, Modular Trench Drain Grates</b> (33 42 36 00-0118)		
33 42 36 00-0127 LF	6" Wide, Galvanized Ductile Iron Cast Bar, Modular Trench Drain Grate .....	195.73	3.13
33 42 36 00-0128 LF	6" Wide, Ductile Iron Cast Bar, Modular Trench Drain Grate .....	165.77	3.13
33 42 36 00-0129 LF	6" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate .....	174.10	3.13
33 42 36 00-0130 LF	6" Wide, Ductile Iron Slotted, Modular Trench Drain Grate .....	152.07	3.13
33 42 36 00-0131 LF	6" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate .....	163.98	3.13
33 42 36 00-0132 LF	6" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate .....	165.96	3.13
33 42 36 00-0133 LF	6" Wide, Ductile Iron Longitudinal Slotted, Modular Trench Drain Grate .....	165.96	3.13
33 42 36 00-0134 LF	6" Wide, Galvanized Cast Iron Slotted, Modular Trench Drain Grate .....	163.98	3.13
33 42 36 00-0135 LF	6" Wide, Galvanized Steel Slotted, Modular Trench Drain Grate .....	144.14	3.13
33 42 36 00-0136 LF	6" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate .....	144.14	3.13
33 42 36 00-0137 LF	6" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate .....	153.26	3.13
33 42 36 00-0138 LF	6" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate .....	153.26	3.13
33 42 36 00-0139 LF	6" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate .....	199.70	3.13
33 42 36 00-0140 LF	6" Wide, Perforated Stainless Steel, Modular Trench Drain Grate .....	199.70	3.13
33 42 36 00-0141 LF	6" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate .....	366.40	3.13
33 42 36 00-0142 LF	6" Wide, Reinforced Perforated Stainless Steel, Modular Trench Drain Grate .....	366.40	3.13
33 42 36 00-0143 LF	6" Wide, Stainless Steel Bar, Modular Trench Drain Grate .....	1,021.28	3.13
33 42 36 00-0144 LF	6" Wide, Heel Proof Polyethylene, Modular Trench Drain Grate .....	136.20	3.13
33 42 36 00-0145 LF	6" Wide, Fiberglass, Modular Trench Drain Grate .....	294.96	3.13

<b>33 42 36 00-0146</b>	<b>12" Wide, Modular Trench Drain Grates</b> (33 42 36 00-0118)		
33 42 36 00-0147 LF	12" Wide, Black Acid Resistant Coated Ductile Iron, Modular Trench Drain Grate .....	541.55	3.39
33 42 36 00-0148 LF	12" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate .....	517.73	3.39
33 42 36 00-0149 LF	12" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate .....	450.26	3.39
33 42 36 00-0150 LF	12" Wide, Heel Proof Ductile Iron, Modular Trench Drain Grate .....	473.08	3.39
33 42 36 00-0151 LF	12" Wide, Perforated Galvanized Steel, Modular Trench Drain Grate .....	408.58	3.39
33 42 36 00-0152 LF	12" Wide, Reinforced Galvanized Steel Slotted, Modular Trench Drain Grate .....	800.52	3.39
33 42 36 00-0153 LF	12" Wide, Reinforced Perforated Galvanized Steel, Modular Trench Drain Grate .....	800.52	3.39
33 42 36 00-0154 LF	12" Wide, Fabricated Stainless Steel Slotted, Modular Trench Drain Grate .....	1,021.79	3.39
33 42 36 00-0155 LF	12" Wide, Perforated Stainless Steel, Modular Trench Drain Grate .....	1,021.79	3.39
33 42 36 00-0156 LF	12" Wide, Reinforced Stainless Steel Slotted, Modular Trench Drain Grate .....	1,304.59	3.39
33 42 36 00-0157 LF	12" Wide, Reinforced Perforated Stainless Steel Slotted, Modular Trench Drain Grate .....	1,304.59	3.39
33 42 36 00-0158 LF	12" Wide, Stainless Steel Cast Bar, Modular Trench Drain Grate .....	1,238.10	3.39
33 42 36 00-0159 LF	12" Wide, Fiberglass, Modular Trench Drain Grate .....	584.21	3.39

<b>33 42 36 00-0160</b>	<b>23" Wide, Modular Trench Drain Grates</b> (33 42 36 00-0118)		
33 42 36 00-0161 LF	23" Wide, Ductile Iron Solid Cover, Modular Trench Drain Grate .....	855.63	3.65
33 42 36 00-0162 LF	23" Wide, Ductile Iron Slotted, Modular Trench Drain Grate .....	720.68	3.65
33 42 36 00-0163 LF	23" Wide, Galvanized Ductile Iron Slotted, Modular Trench Drain Grate .....	1,117.58	3.65
33 42 36 00-0164 LF	23" Wide, Heel Proof Longitudinal Ductile Iron, Modular Trench Drain Grate .....	827.84	3.65

**33 44 Storm Utility Water Drains** (33 40)

**33 44 36 Oil and Stormwater Separators** (33 44)

<b>33 44 36 00-0001</b>	<b>Oil/Water Separator</b> (33 44 36)		
	Note: Complete with internal sensors and detectors.		

<b>33 44 36 00-0002</b>	<b>Coalescing Oil Water Separator</b> (33 44 36 00-0001)		
	Note: Underground tank with interior polyurethane coating. Includes manways, coalescer, inlet and outlet spools, pump mount, 2" level sensor pipe and 4" pump out pipe. HighGuard as manufactured by Highland Tank, Stoystown, PA.		

<b>33 44 36 00-0003</b>	<b>Single Wall Steel Coalescing Oil Water Separator</b> (33 44 36 00-0002)		
33 44 36 00-0004 EA	550 Gallon, 55 GPM Single Wall Steel Coalescing Oil Water Separator With Manways .....	18,940.71	
	Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
	<i>For Interior Polyurethane Coating, Add</i>	711.00	
33 44 36 00-0005 EA	1,000 Gallon, 100 GPM Single Wall Steel Coalescing Oil Water Separator With Manways .....	23,162.12	
	Note: HTC-G 1000. 4' diameter x 14' long tank.		
	<i>For Interior Polyurethane Coating, Add</i>	893.70	
33 44 36 00-0006 EA	2,000 Gallon, 200 GPM Single Wall Steel Coalescing Oil Water Separator With Manways .....	27,726.89	
	Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
	<i>For Interior Polyurethane Coating, Add</i>	1,340.10	

<b>33 44 36 00-0007</b>	<b>Double Wall Steel Coalescing Oil Water Separator</b> (33 44 36 00-0002)		
33 44 36 00-0008 EA	550 Gallon, 55 GPM Double Wall Steel Coalescing Oil Water Separator With Manways .....	29,389.49	
	Note: HTC-G 550. 3'-6" diameter x 10'-9" long tank.		
	<i>For Interior Polyurethane Coating, Add</i>	711.00	
33 44 36 00-0009 EA	1,000 Gallon, 100 GPM Double Wall Steel Coalescing Oil Water Separator With Manways .....	33,795.32	
	Note: HTC-G 1000. 4' diameter x 14' long tank.		
	<i>For Interior Polyurethane Coating, Add</i>	893.70	
33 44 36 00-0010 EA	2,000 Gallon, 200 GPM Double Wall Steel Coalescing Oil Water Separator With Manways .....	41,257.60	
	Note: HTC-G 2000. 5'-4" diameter x 15' long tank.		
	<i>For Interior Polyurethane Coating, Add</i>	1,340.10	
33 44 36 00-0011 EA	3,000 Gallon, 300 GPM Double Wall Steel Coalescing Oil Water Separator With Manways .....	48,010.69	
	Note: HTC-G 3000. 5'-4" diameter x 21'-4" long tank.		
	<i>For Interior Polyurethane Coating, Add</i>	1,550.70	

**33 Utilities****33 40 Stormwater Utilities****33 44 Storm Utility Water Drains**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 44 36 00-0012 EA 5,000 Gallon, 500 GPM Double Wall Steel Coalescing Oil Water Separator With Manways..... Note: HTC-G 5000. 6' diameter x 28'-8" long tank. For Interior Polyurethane Coating, Add	63,734.67  2,057.80	
<b>33 44 36 00-0013 Accessories For Coalescing Oil Water Separators (33 44 36 00-0002)</b>		
33 44 36 00-0014 EA Single Channel Alarm Panel For Coalescing Oil Water Separator ..... Note: HTAP1.	1,237.04	
33 44 36 00-0015 EA Two Channel Alarm Panel For Coalescing Oil Water Separator..... Note: HTAP2.	1,675.37	
33 44 36 00-0016 EA Float Interface Sensor For Coalescing Oil Water Separator ..... Note: Required for UL 2215 label.	979.95	
33 44 36 00-0017 EA 1-1/2" Liquid Only Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	732.11	
33 44 36 00-0018 EA Polyvinyl Chloride (PVC) Cap For 2" Sensor For Coalescing Oil Water Separator..... Note: Required for UL 2215 label.	267.41	
33 44 36 00-0019 EA 550, 1,000 Or 2,000 Gallon Tank Concrete Deadmen Set (2 Each) For Coalescing Oil Water Separator .....	4,023.93	
33 44 36 00-0020 EA 3,000 Gallon Tank Concrete Deadmen Set (4 Each) For Coalescing Oil Water Separator .....	8,047.87	
33 44 36 00-0021 EA 5,000 Gallon Tank Concrete Deadmen Set (6 Each) For Coalescing Oil Water Separator .....	12,071.89	
33 44 36 00-0022 EA 550 Or 1,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator .....	720.70	
33 44 36 00-0023 EA 2,000 Gallon Tank Polyester Hold Down Straps (2 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator .....	852.88	
33 44 36 00-0024 EA 3,000 Gallon Tank Polyester Hold Down Straps (4 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator .....	1,705.76	
33 44 36 00-0025 EA 5,000 Gallon Tank Polyester Hold Down Straps (6 Each) With Galvanized Turnbuckle And Clamps For Coalescing Oil Water Separator .....	3,797.86	
33 44 36 00-0026 EA 30" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,030.50	
33 44 36 00-0027 EA 36" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,344.67	
33 44 36 00-0028 EA 48" Diameter Grade Level Manway For Coalescing Oil Water Separator..... Note: Required when installed in paved areas.	1,865.38	
33 44 36 00-0029 EA 54" x 54" Grade Level Manway For Coalescing Oil Water Separator ..... Note: Required when installed in paved areas.	3,410.24	
33 44 36 00-0030 EA 66" x 54" Grade Level Manway For Coalescing Oil Water Separator ..... Note: Required when installed in paved areas.	4,389.20	
33 44 36 00-0031 EA 66" x 66" Grade Level Manway For Coalescing Oil Water Separator ..... Note: Required when installed in paved areas.	5,512.74	
33 44 36 00-0032 EA 78" x 66" Grade Level Manway For Coalescing Oil Water Separator ..... Note: Required when installed in paved areas.	6,954.33	
33 44 36 00-0033 EA 550 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator .....	1,377.57	
33 44 36 00-0034 EA 1,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator .....	1,679.11	
33 44 36 00-0035 EA 2,000 Gallon Petroscreen (Material Only) For Coalescing Oil Water Separator .....	2,637.41	
33 44 36 00-0036 EA 550 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator .....	1,313.54	
33 44 36 00-0037 EA 1,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator .....	1,594.43	
33 44 36 00-0038 EA 2,000 Gallon Corrugated Coalescer Plate (Material Only) For Coalescing Oil Water Separator .....	1,891.83	
33 44 36 00-0039 EA 18" Manhole Gasket (Material Only) For Coalescing Oil Water Separator .....	111.53	
33 44 36 00-0040 EA 24" Manhole Gasket (Material Only) For Coalescing Oil Water Separator .....	125.98	
<b>33 44 36 00-0041 Oil Skimmers (33 44 36)</b>		
<b>33 44 36 00-0042 Oil Skimmers, 12" And 24" Models (33 44 36 00-0041)</b>		
33 44 36 00-0043 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase .....	5,541.16	846.02
33 44 36 00-0044 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 230/460 Volt, 3 Phase .....	5,776.96	846.02
33 44 36 00-0045 EA Oil Skimmers, TENV, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase .....	5,563.00	846.02
33 44 36 00-0046 EA Oil Skimmers, Explosion-Proof, 12" Open, 1/2 HP, 115/220 Volt, 1 Phase .....	5,865.38	846.02
33 44 36 00-0047 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase .....	5,810.80	846.02
33 44 36 00-0048 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase .....	6,010.57	846.02
33 44 36 00-0049 EA Oil Skimmers, TENV, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase .....	5,862.10	846.02
33 44 36 00-0050 EA Oil Skimmers, Explosion-Proof, 12" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase .....	6,163.40	846.02
33 44 36 00-0051 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase .....	6,358.79	1,128.27
33 44 36 00-0052 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 230/460 Volt, 3 Phase .....	6,610.96	1,128.27
33 44 36 00-0053 EA Oil Skimmers, TENV, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase .....	6,425.38	1,128.27
33 44 36 00-0054 EA Oil Skimmers, Explosion-Proof, 24" Open, 1/2 HP, 115/220 Volt, 1 Phase .....	6,787.81	1,128.27
33 44 36 00-0055 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase .....	6,996.31	1,128.27
33 44 36 00-0056 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 230/460 Volt, 3 Phase .....	7,248.48	1,128.27
33 44 36 00-0057 EA Oil Skimmers, TENV, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase .....	7,049.80	1,128.27
33 44 36 00-0058 EA Oil Skimmers, Explosion-Proof, 24" Enclosed, 1/2 HP, 115/220 Volt, 1 Phase .....	7,413.32	1,128.27
<b>33 44 36 00-0059 Oil Skimmers, Add-Ons (33 44 36 00-0041)</b>		
33 44 36 00-0060 LF Add For Belt Projection, 12" Width.....	16.37	
33 44 36 00-0061 LF Add For Belt Projection, 24" Width.....	30.57	
33 44 36 00-0062 LF Add For Spacer Stands, 12" Models.....	302.54	
33 44 36 00-0063 LF Add For Spacer Stands, 24" Models.....	350.57	

**33 46 Stormwater Management (33 40)****33 46 23 Modular Buried Stormwater Storage Units (33 46)**





<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Stormwater Utilities</b>	<b>33 40</b>	
<b>Stormwater Management</b>	<b>33 46</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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33 46 23 00-0001		<b>Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™)</b> <small>(33 46 23)</small>	
		Note: Includes chambers and end caps delivery to site. Excludes excavation and earthwork, foundation stone, embedment and perimeter stone, geotextile fabrics and cutting holes in chambers. See CSI section 31 05 16 00-0000 for aggregate (foundation, embedment and perimeter stone), 31 23 16 36-0000 for excavation and earth backfill, 31 32 19 16-0000 for woven and non-woven geotextile fabric.	
33 46 23 00-0002		<b>85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740)</b> <small>(33 46 23 00-0001)</small>	
33 46 23 00-0003	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	605.43
33 46 23 00-0004	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	557.11
33 46 23 00-0005	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	522.83
33 46 23 00-0006	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-740).....	489.60
33 46 23 00-0007	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	263.70
33 46 23 00-0008	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	232.47
33 46 23 00-0009	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	214.42
33 46 23 00-0010	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-740).....	196.61
33 46 23 00-0011		<b>85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310)</b> <small>(33 46 23 00-0001)</small>	
33 46 23 00-0012	EA	Up To 10, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	349.69
33 46 23 00-0013	EA	>10 To 20, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	319.37
33 46 23 00-0014	EA	>20 To 30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	298.56
33 46 23 00-0015	EA	>30, 85.4" Long x 34" Wide x 16" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ SC-310).....	279.57
33 46 23 00-0016	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	207.08
33 46 23 00-0017	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	183.87
33 46 23 00-0018	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	169.82
33 46 23 00-0019	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ SC-310).....	157.26
33 46 23 00-0020		<b>90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500)</b> <small>(33 46 23 00-0001)</small>	
33 46 23 00-0021	EA	Up To 10, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	1,019.26
33 46 23 00-0022	EA	>10 To 20, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	948.02
33 46 23 00-0023	EA	>20 To 30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	891.77
33 46 23 00-0024	EA	>30, 90" Long x 77" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC3500).....	840.74
33 46 23 00-0025	EA	Up To 10, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	862.05
33 46 23 00-0026	EA	>10 To 20, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	798.65
33 46 23 00-0027	EA	>20 To 30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	749.88
33 46 23 00-0028	EA	>30, 25.7" Long x 75" Wide x 45" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC3500).....	705.95
33 46 23 00-0029		<b>85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780)</b> <small>(33 46 23 00-0001)</small>	
33 46 23 00-0030	EA	Up To 10, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	627.97
33 46 23 00-0031	EA	>10 To 20, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	578.55
33 46 23 00-0032	EA	>20 To 30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	543.18
33 46 23 00-0033	EA	>30, 85.4" Long x 51" Wide x 30" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ DC-780).....	508.92
33 46 23 00-0034	EA	Up To 10, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	263.70
33 46 23 00-0035	EA	>10 To 20, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	228.21
33 46 23 00-0036	EA	>20 To 30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	214.42
33 46 23 00-0037	EA	>30, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ DC-780).....	196.61
33 46 23 00-0038		<b>52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500)</b> <small>(33 46 23 00-0001)</small>	
33 46 23 00-0039	EA	Up To 10, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	1,061.10

**33 Utilities****33 40 Stormwater Utilities****33 46 Stormwater Management**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 46 23 00-0040 EA >10 To 20, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	985.53	
33 46 23 00-0041 EA >20 To 30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	924.97	
33 46 23 00-0042 EA >30, 52" Long x 100" Wide x 60" High, Polypropylene Corrugated Wall Stormwater Collection Chambers (StormTech™ MC4500).....	872.94	
33 46 23 00-0043 EA Up To 10, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,315.63	
33 46 23 00-0044 EA >10 To 20, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,227.32	
33 46 23 00-0045 EA >20 To 30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,154.68	
33 46 23 00-0046 EA >30, 35.1" Long x 90.2" Wide x 59.4" High, Polypropylene Corrugated Wall Stormwater Collection Chamber End Cap (StormTech™ MC4500).....	1,091.16	
<b>33 46 23 00-0047 Cut Opening In Polypropylene Corrugated Wall Stormwater Collection Chambers (33 46 23 00-0001)</b>		
33 46 23 00-0048 EA Cut Up To 6" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap .....	70.06	
33 46 23 00-0049 EA Cut >6" To 12" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	89.58	
33 46 23 00-0050 EA Cut >12" To 24" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	116.29	
33 46 23 00-0051 EA Cut >24" To 36" Diameter Opening, Polypropylene Corrugated Wall Stormwater Collection Chamber Or End Cap.....	146.98	
33 46 23 00-0052 EA 12" x 6" Inspection Port Kit .....	738.78	
Note: (2712AG6IPKIT)		
<b>33 46 53 Stormwater Leaching Pits (33 46)</b>		
<b>33 46 53 00-0001 Drainage Wells (33 46 53)</b>		
Note: Includes augering hole.		
33 46 53 00-0002 LF 12" Diameter Drainage Well With Corrugated Metal Liner.....	29.99	
33 46 53 00-0003 LF 18" Diameter Drainage Well With Corrugated Metal Liner.....	36.59	
33 46 53 00-0004 LF 24" Diameter Drainage Well With Corrugated Metal Liner.....	48.89	
<b>33 50 Hydrocarbon Utilities (33)</b>		
<b>33 52 Hydrocarbon Transmission and Distribution (33 50)</b>		
<b>33 52 16 Gas Hydrocarbon Piping (33 52)</b>		
<b>33 52 16 13 Steel Natural Gas Piping (33 52 16)</b>		
See CSI section 23 05 23 00-0000 for gas valves.		
<b>33 52 16 13-0001 Gas Distribution Lines (33 52 16 13)</b>		
Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
<b>33 52 16 13-0002 Steel, Schedule 40, Plain End, Coal Tar Enamel And Wrapped (33 52 16 13-0001)</b>		
33 52 16 13-0003 LF 1/2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	31.57	3.54
33 52 16 13-0004 LF 3/4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	36.87	3.90
33 52 16 13-0005 LF 1" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	43.39	4.00
33 52 16 13-0006 LF 1-1/4" (3.2 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	44.50	4.10
33 52 16 13-0007 LF 1-1/2" (3.6 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	46.44	4.15
33 52 16 13-0008 LF 2" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	49.08	4.45
33 52 16 13-0009 LF 2-1/2" (6.0 cm) Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	69.51	4.85
33 52 16 13-0010 LF 3" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	86.43	6.12
33 52 16 13-0011 LF 4" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	119.10	7.39
33 52 16 13-0012 LF 5" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	165.19	8.57
33 52 16 13-0013 LF 6" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	208.62	10.46
33 52 16 13-0014 LF 8" Diameter Schedule 40 Steel Gas Distribution Line, Plain End, Coal Tar Enamel.....	309.02	13.46
<b>33 52 16 13-0015 Gas Line Taps (33 52 16 13-0001)</b>		
Note: Includes material to tap into main and gas valve.		
<b>33 52 16 13-0016 Polyethylene, 60 PSI (33 52 16 13-0015)</b>		
33 52 16 13-0017 EA 2" Polyethylene Hot Tap, With Valve .....	4,871.32	
33 52 16 13-0018 EA 2-1/2" Polyethylene Hot Tap, With Valve .....	2,159.02	
33 52 16 13-0019 EA 3" Polyethylene Hot Tap, With Valve .....	2,282.62	
33 52 16 13-0020 EA 4" Polyethylene Hot Tap, With Valve .....	8,452.20	
33 52 16 13-0021 EA 6" Polyethylene Hot Tap, With Valve .....	13,242.33	
<b>33 52 16 13-0022 Steel, Schedule 40 (33 52 16 13-0015)</b>		
Note: For punch steel service tee.		
33 52 16 13-0023 EA 1/2" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee .....	3,093.96	
33 52 16 13-0024 EA 3/4" Iron Pipe Size Weld Base, 1/2" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee .....	3,146.37	
33 52 16 13-0025 EA 3/4" Iron Pipe Size Weld Base, 3/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee .....	3,219.71	



<b>Utilities</b>	<b>33</b>	<b>CS</b>
<b>Hydrocarbon Utilities</b>	<b>33 50</b>	
<b>Hydrocarbon Transmission and Distribution</b>	<b>33 52</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 13-0026 EA 3/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	3,290.62	
33 52 16 13-0027 EA 1" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	3,342.84	
33 52 16 13-0028 EA 1-1/4" Iron Pipe Size Weld Base, 1" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	3,637.40	
33 52 16 13-0029 EA 1-1/4" Iron Pipe Size Weld Base, 1-1/4" Iron Pipe Size Compression/Plain End Pipe Outlet Punch Valve Steel Service Tee.....	3,730.21	
<b>33 52 16 13-0030 Protective Pipe And Fitting Wrap (33 52 16 13-0001)</b> Note: Includes cleaning and priming pipe.		
<b>33 52 16 13-0031 Corrosion Protection Pipe Wrap For Pipe (33 52 16 13-0030)</b> Note: Field applied.		
33 52 16 13-0032 LF 1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	3.88	
33 52 16 13-0033 LF 3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	4.12	
33 52 16 13-0034 LF 1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	4.41	
33 52 16 13-0035 LF 1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	4.91	
33 52 16 13-0036 LF 1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	5.33	
33 52 16 13-0037 LF 2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	6.08	
33 52 16 13-0038 LF 2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	7.23	
33 52 16 13-0039 LF 3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	8.77	
33 52 16 13-0040 LF 4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	10.87	
33 52 16 13-0041 LF 6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe.....	14.14	
<b>33 52 16 13-0042 Corrosion Resistance Wrap And Coat - Fittings (33 52 16 13-0030)</b> Note: Field applied.		
33 52 16 13-0043 EA 1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	25.38	
33 52 16 13-0044 EA 3/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	25.38	
33 52 16 13-0045 EA 1" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	31.51	
33 52 16 13-0046 EA 1-1/4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	35.12	
33 52 16 13-0047 EA 1-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	35.12	
33 52 16 13-0048 EA 2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	41.55	
33 52 16 13-0049 EA 2-1/2" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	55.67	
33 52 16 13-0050 EA 3" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	73.41	
33 52 16 13-0051 EA 4" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	73.91	
33 52 16 13-0052 EA 6" Outside Pipe Diameter, Corrosion Protection Wrap For Pipe Fittings.....	84.61	
<b>33 52 16 13-0053 Service Fittings (33 52 16 13-0001)</b>		
<b>33 52 16 13-0054 Brass Fittings (33 52 16 13-0053)</b>		
33 52 16 13-0055 EA 1/2" X 2" Long Nipples, Threaded Both Ends, Brass.....	43.37	
33 52 16 13-0056 EA 3/4" X 2" Long Nipples, Threaded Both Ends, Brass.....	50.20	
33 52 16 13-0057 EA 1" X 2" Long Nipples, Threaded Both Ends, Brass.....	63.39	
33 52 16 13-0058 EA 1-1/4" X 2" Long Nipples, Threaded Both Ends, Brass.....	78.24	
33 52 16 13-0059 EA 1-1/2" X 2" Long Nipples, Threaded Both Ends, Brass.....	87.59	
33 52 16 13-0060 EA 2" X 2" Long Nipples, Threaded Both Ends, Brass.....	113.10	
33 52 16 13-0061 EA 1/2" 90 Degree Elbow, Brass.....	37.92	
33 52 16 13-0062 EA 3/4" 90 Degree Elbow, Brass.....	43.44	
33 52 16 13-0063 EA 1" 90 Degree Elbow, Brass.....	56.00	
33 52 16 13-0064 EA 1-1/4" 90 Degree Elbow, Brass.....	71.81	
33 52 16 13-0065 EA 1-1/2" 90 Degree Elbow, Brass.....	81.83	
33 52 16 13-0066 EA 2" 90 Degree Elbow, Brass.....	108.35	
33 52 16 13-0067 EA 1/2" Diameter Chrome Plated Nipple.....	33.30	
33 52 16 13-0068 EA 3/4" Diameter Chrome Plated Nipple.....	42.73	
33 52 16 13-0069 EA 1" Diameter Chrome Plated Nipple.....	55.65	
33 52 16 13-0070 EA 1-1/4" Diameter Chrome Plated Nipple.....	79.00	
33 52 16 13-0071 EA 1-1/2" Diameter Chrome Plated Nipple.....	95.33	
33 52 16 13-0072 EA 2" Diameter Chrome Plated Nipple.....	127.37	
<b>33 52 16 13-0073 Anodless Gas Riser (33 52 16 13-0053)</b>		
33 52 16 13-0074 EA 3/4" Anodless Gas Riser.....	110.28	
33 52 16 13-0075 EA 1" Anodless Gas Riser.....	136.07	
33 52 16 13-0076 EA 1-1/4" Anodless Gas Riser.....	158.90	
33 52 16 13-0077 EA 1-1/2" Anodless Gas Riser.....	197.33	
33 52 16 13-0078 EA 2" Anodless Gas Riser.....	225.90	
<b>33 52 16 13-0079 Brass Service Adapter (33 52 16 13-0053)</b>		
33 52 16 13-0080 EA 1/2" Brass Service Adapter.....	90.96	
33 52 16 13-0081 EA 3/4" Brass Service Adapter.....	100.09	
33 52 16 13-0082 EA 1" Brass Service Adapter.....	120.05	
33 52 16 13-0083 EA 1-1/4" Brass Service Adapter.....	145.28	
33 52 16 13-0084 EA 1-1/2" Brass Service Adapter.....	174.06	
33 52 16 13-0085 EA 2" Brass Service Adapter.....	208.88	
33 52 16 13-0086 EA 2-1/2" Brass Service Adapter.....	348.79	
33 52 16 13-0087 EA 3" Brass Service Adapter.....	425.92	
33 52 16 13-0088 EA 4" Brass Service Adapter.....	612.61	

**33 Utilities****33 50 Hydrocarbon Utilities****33 52 Hydrocarbon Transmission and Distribution**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST
**33 52 16 23 Medium Density Polyethylene Piping for Natural Gas (33 52 16)****33 52 16 23-0001 Medium Density Polyethylene (MDPE) Gas Distribution Piping (33 52 16 23)**

Note: PE2406/PE2708. Includes couplings, #12 tracer wire, helically wrapped around piping.

33 52 16 23-0002	LF 1/2" Diameter, SDR 9, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	4.75	2.17
	<i>For Colors, Add</i>	0.05	
33 52 16 23-0003	LF 3/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	5.25	2.33
	<i>For SDR 13.5, Deduct</i>	-0.11	
	<i>For Colors, Add</i>	0.07	
33 52 16 23-0004	LF 1" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	5.75	2.49
	<i>For SDR 13.5, Deduct</i>	-0.13	
	<i>For Colors, Add</i>	0.08	
33 52 16 23-0005	LF 1-1/4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	6.28	2.64
	<i>For SDR 13.5, Deduct</i>	-0.16	
	<i>For Colors, Add</i>	0.10	
33 52 16 23-0006	LF 1-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	7.13	3.18
	<i>For SDR 13.5, Deduct</i>	-0.22	
	<i>For Colors, Add</i>	0.14	
33 52 16 23-0007	LF 2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	7.99	3.45
	<i>For SDR 13.5, Deduct</i>	-0.29	
	<i>For SDR 15.5, Deduct</i>	-0.53	
	<i>For Colors, Add</i>	0.19	
33 52 16 23-0008	LF 2-1/2" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	9.85	4.04
	<i>For SDR 13.5, Deduct</i>	-0.48	
	<i>For SDR 15.5, Deduct</i>	-0.88	
	<i>For Colors, Add</i>	0.31	
33 52 16 23-0009	LF 3" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	11.90	4.81
	<i>For SDR 13.5, Deduct</i>	-0.66	
	<i>For SDR 15.5, Deduct</i>	-1.21	
	<i>For Colors, Add</i>	0.42	
33 52 16 23-0010	LF 4" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	17.88	4.90
	<i>For SDR 13.5, Deduct</i>	-1.22	
	<i>For SDR 15.5, Deduct</i>	-2.23	
	<i>For Colors, Add</i>	0.78	
33 52 16 23-0011	LF 5" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	22.47	4.90
	<i>For SDR 13.5, Deduct</i>	-1.69	
	<i>For SDR 15.5, Deduct</i>	-3.10	
	<i>For Colors, Add</i>	1.09	
33 52 16 23-0012	LF 6" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	27.18	4.90
	<i>For SDR 13.5, Deduct</i>	-2.16	
	<i>For SDR 15.5, Deduct</i>	-3.96	
	<i>For Colors, Add</i>	1.39	
33 52 16 23-0013	LF 8" Diameter, SDR 11, Medium Density Polyethylene (MDPE) Gas Distribution Pipe	39.97	6.13
	<i>For SDR 13.5, Deduct</i>	-3.59	
	<i>For SDR 15.5, Deduct</i>	-6.60	
	<i>For Colors, Add</i>	2.32	

**33 52 16 26 High Density Polyethylene Piping for Natural Gas (33 52 16)****33 52 16 26-0001 High Density Polyethylene (HDPE) Gas Distribution Piping (33 52 16 26)**

Note: ASTM F2619, ASTM D2513, API 15 LE. Includes couplings, #12 tracer wire, helically wrapped around piping.

33 52 16 26-0002	LF 1/2" Diameter, SDR 9 High Density Polyethylene (HDPE) Gas Distribution Pipe	4.82	2.17
33 52 16 26-0003	LF 3/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	5.35	2.33
	<i>For SDR 13.5, Deduct</i>	-0.12	
33 52 16 26-0004	LF 1" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	5.85	2.49
	<i>For SDR 13.5, Deduct</i>	-0.14	
33 52 16 26-0005	LF 1-1/4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	6.41	2.64
	<i>For SDR 13.5, Deduct</i>	-0.17	
33 52 16 26-0006	LF 1-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	7.31	3.18
	<i>For SDR 13.5, Deduct</i>	-0.24	
33 52 16 26-0007	LF 2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	8.22	3.45
	<i>For SDR 13.5, Deduct</i>	-0.32	
	<i>For SDR 15.5, Deduct</i>	-0.58	
	<i>For SDR 17, Deduct</i>	-0.85	
33 52 16 26-0008	LF 2-1/2" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	10.24	4.04
	<i>For SDR 13.5, Deduct</i>	-0.53	
	<i>For SDR 15.5, Deduct</i>	-0.97	
	<i>For SDR 17, Deduct</i>	-1.41	
33 52 16 26-0009	LF 3" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	12.43	4.81
	<i>For SDR 13.5, Deduct</i>	-0.72	
	<i>For SDR 15.5, Deduct</i>	-1.33	
	<i>For SDR 17, Deduct</i>	-1.93	
	<i>For SDR 21, Deduct</i>	-2.64	
33 52 16 26-0010	LF 4" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe	18.86	4.90
	<i>For SDR 13.5, Deduct</i>	-1.34	
	<i>For SDR 15.5, Deduct</i>	-2.46	
	<i>For SDR 17, Deduct</i>	-3.57	
	<i>For SDR 21, Deduct</i>	-4.88	



	<b>Utilities</b>	<b>33</b>
	<b>Hydrocarbon Utilities</b>	<b>33 50</b>
	<b>Hydrocarbon Transmission and Distribution</b>	<b>33 52</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 52 16 26-0011 LF 6" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	28.92	4.90
For SDR 13.5, Deduct	-2.37	
For SDR 15.5, Deduct	-4.36	
For SDR 17, Deduct	-6.33	
For SDR 21, Deduct	-8.66	
33 52 16 26-0012 LF 8" Diameter, SDR 11 High Density Polyethylene (HDPE) Gas Distribution Pipe.....	42.86	6.13
For SDR 13.5, Deduct	-3.95	
For SDR 15.5, Deduct	-7.26	
For SDR 17, Deduct	-10.54	
For SDR 21, Deduct	-14.42	

**33 53 Hydrocarbon Utility Pressure Regulation** (33 50)

**33 53 16 Gas Hydrocarbon Pressure Regulation** (33 53)

**33 53 16 00-0001 Gas Pressure Regulators With Screwed And Flanged Ends** (33 53 16)

33 53 16 00-0002 EA 3/4" Gas Pressure Regulator, Screwed End.....	278.67	24.50
33 53 16 00-0003 EA 1" Gas Pressure Regulator, Screwed End.....	284.23	24.50
33 53 16 00-0004 EA 1-1/4" Gas Pressure Regulator, Screwed End.....	297.57	29.09
33 53 16 00-0005 EA 1-1/2" Gas Pressure Regulator, Screwed End.....	971.23	33.68
33 53 16 00-0006 EA 2" Gas Pressure Regulator, Screwed End.....	1,041.53	52.16
33 53 16 00-0007 EA 3" Gas Pressure Regulator, Screwed End.....	2,912.24	117.02
33 53 16 00-0008 EA 4" Gas Pressure Regulator, Screwed End.....	4,041.95	155.08

**33 56 Hydrocarbon Storage** (33 50)

**33 56 13 Aboveground Hydrocarbon Storage Tanks** (33 56)

See CSI section 23 13 23 00-0000 for aboveground storage tanks.

**33 56 33 Underground Hydrocarbon Storage** (33 56)

See CSI section 23 13 13 00-0000 for underground storage tanks.

**33 59 Hydrocarbon Utility Metering** (33 50)

**33 59 11 Diaphragm/Bellows Hydrocarbons Meters** (33 59)

**33 59 11 00-0001 Diaphragm Meters** (33 59 11)

Note: With standard direct-digital reading maximum working pressures 5 lbs to 100 lbs, threaded connections. Excludes pressure and temperature compensation.

33 59 11 00-0002 EA 250 CF/Hour Gas Diaphragm Meter At 5 LB, Direct Digital, Threaded.....	699.32	95.87
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0003 EA 425 CF/Hour Gas Diaphragm Meter At 10 LB, Direct Digital, Threaded.....	1,356.91	146.62
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0004 EA 425 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	1,584.26	146.62
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0005 EA 800 CF/Hour Gas Diaphragm Meter At 20 LB, Direct Digital, Threaded.....	3,400.05	183.28
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0006 EA 1,000 CF/Hour Gas Diaphragm Meter At 25 LB, Direct Digital, Threaded.....	3,854.86	225.57
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0007 EA 800 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	5,024.55	183.28
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0008 EA 1,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	5,603.01	225.57
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0009 EA 1,400 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	7,372.92	239.67
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0010 EA 2,300 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	10,411.23	281.96
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	
33 59 11 00-0011 EA 5,000 CF/Hour Gas Diaphragm Meter At 100 LB, Direct Digital, Threaded.....	15,919.25	465.24
For Temperature And Pressure Compensation, Add	8.40	
For Pulsers, Add	26.50	

**33 59 16 Hydrocarbons Turbine Meters** (33 59)

**33 59 16 00-0001 Gas Turbine Meters With Direct-Digital Reading** (33 59 16)

Note: Maximum working pressure 175 PSI, flanged end connections.

33 59 16 00-0002 EA 4", 18,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	12,725.64	462.48
33 59 16 00-0003 EA 6", 30,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	13,543.70	537.08
33 59 16 00-0004 EA 8", 60,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	20,932.89	574.61
33 59 16 00-0005 EA 10", 90,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	40,668.45	699.52
33 59 16 00-0006 EA 12", 150,000 CF/Hour Gas Turbine Meter 175 PSI, Direct Digital, Flanged.....	67,216.61	874.40

<b>33</b>	<b>33 Utilities</b>
	<b>33 60 Hydronic and Steam Energy Utilities</b>
	<b>33 59 Hydrocarbon Utility Metering</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**33 60 Hydronic and Steam Energy Utilities** <sup>(33)</sup>

**33 61 Hydronic Energy Distribution** <sup>(33 60)</sup>

**33 61 13 Buried Hydronic Energy Distribution** <sup>(33 61)</sup>

33 61 13 00-0001 Glass Lined Steel Piping <sup>(33 61 13)</sup>

33 61 13 00-0002 Glass Lined Steel Pipe <sup>(33 61 13 00-0001)</sup>  
Note: 150 PSIG

33 61 13 00-0003	EA	4" X 1' Glass Lined Steel Pipe .....	1,573.67
33 61 13 00-0004	EA	4" X 2' Glass Lined Steel Pipe .....	1,737.46
33 61 13 00-0005	EA	4" X 3' Glass Lined Steel Pipe .....	1,737.46
33 61 13 00-0006	EA	4" X 4' Glass Lined Steel Pipe .....	2,065.04
33 61 13 00-0007	EA	4" X 5' Glass Lined Steel Pipe .....	2,935.17
33 61 13 00-0008	EA	4" X 10' Glass Lined Steel Pipe .....	3,399.23
33 61 13 00-0009	EA	6" X 1' Glass Lined Steel Pipe .....	1,317.75
33 61 13 00-0010	EA	6" X 2' Glass Lined Steel Pipe .....	2,853.27
33 61 13 00-0011	EA	6" X 3' Glass Lined Steel Pipe .....	2,853.27
33 61 13 00-0012	EA	6" X 4' Glass Lined Steel Pipe .....	3,232.03
33 61 13 00-0013	EA	6" X 5' Glass Lined Steel Pipe .....	5,214.56
33 61 13 00-0014	EA	6" X 10' Glass Lined Steel Pipe .....	6,034.99
33 61 13 00-0015	EA	8" X 1' Glass Lined Steel Pipe .....	3,254.96
33 61 13 00-0016	EA	8" X 2' Glass Lined Steel Pipe .....	3,920.35
33 61 13 00-0017	EA	8" X 3' Glass Lined Steel Pipe .....	3,920.35
33 61 13 00-0018	EA	8" X 4' Glass Lined Steel Pipe .....	4,508.48
33 61 13 00-0019	EA	8" X 5' Glass Lined Steel Pipe .....	6,106.65
33 61 13 00-0020	EA	8" X 10' Glass Lined Steel Pipe .....	6,940.47
33 61 13 00-0021	EA	12" X 1' Glass Lined Steel Pipe .....	8,832.22
33 61 13 00-0022	EA	12" X 2' Glass Lined Steel Pipe .....	8,832.22
33 61 13 00-0023	EA	12" X 3' Glass Lined Steel Pipe .....	9,152.97
33 61 13 00-0024	EA	12" X 4' Glass Lined Steel Pipe .....	9,761.53
33 61 13 00-0025	EA	12" X 5' Glass Lined Steel Pipe .....	10,953.59
33 61 13 00-0026	EA	12" X 10' Glass Lined Steel Pipe .....	13,531.03
33 61 13 00-0027	EA	16" X 10' Glass Lined Steel Pipe .....	18,431.50

33 61 13 00-0028 90 Degree Elbow, Glass Lined Steel Fittings <sup>(33 61 13 00-0001)</sup>

Note: 150 PSIG

33 61 13 00-0029	EA	4" 90 Degree Elbow, Glass Lined Steel Fittings.....	1,897.51
33 61 13 00-0030	EA	6" 90 Degree Elbow, Glass Lined Steel Fittings.....	3,100.87
33 61 13 00-0031	EA	8" 90 Degree Elbow, Glass Lined Steel Fittings.....	5,708.86
33 61 13 00-0032	EA	10" 90 Degree Elbow, Glass Lined Steel Fittings.....	10,139.27
33 61 13 00-0033	EA	12" 90 Degree Elbow, Glass Lined Steel Fittings.....	15,017.19
33 61 13 00-0034	EA	14" 90 Degree Elbow, Glass Lined Steel Fittings.....	17,636.81
33 61 13 00-0035	EA	16" 90 Degree Elbow, Glass Lined Steel Fittings.....	20,256.01

33 61 13 00-0036 45 Degree Elbow, Glass Lined Steel Fittings <sup>(33 61 13 00-0001)</sup>

Note: 150 PSIG

33 61 13 00-0037	EA	4" 45 Degree Elbow, Glass Lined Steel Fittings.....	1,859.97
33 61 13 00-0038	EA	6" 45 Degree Elbow, Glass Lined Steel Fittings.....	3,100.87
33 61 13 00-0039	EA	8" 45 Degree Elbow, Glass Lined Steel Fittings.....	5,968.19
33 61 13 00-0040	EA	10" 45 Degree Elbow, Glass Lined Steel Fittings.....	16,813.67
33 61 13 00-0041	EA	12" 45 Degree Elbow, Glass Lined Steel Fittings.....	15,017.19
33 61 13 00-0042	EA	14" 45 Degree Elbow, Glass Lined Steel Fittings.....	17,636.81
33 61 13 00-0043	EA	16" 45 Degree Elbow, Glass Lined Steel Fittings.....	20,256.01

33 61 13 00-0044 Tee, Glass Lined Steel Fittings <sup>(33 61 13 00-0001)</sup>

Note: 150 PSIG

33 61 13 00-0045	EA	4" Tee, Glass Lined Steel Fittings.....	2,949.88
33 61 13 00-0046	EA	6" Tee, Glass Lined Steel Fittings.....	5,061.40
33 61 13 00-0047	EA	8" Tee, Glass Lined Steel Fittings.....	7,490.33
33 61 13 00-0048	EA	10" Tee, Glass Lined Steel Fittings.....	12,936.11
33 61 13 00-0049	EA	12" Tee, Glass Lined Steel Fittings.....	18,408.20
33 61 13 00-0050	EA	14" Tee, Glass Lined Steel Fittings.....	21,692.16
33 61 13 00-0051	EA	16" Tee, Glass Lined Steel Fittings.....	24,917.50

33 61 13 00-0052 Prefabricated/Preinsulated Pipe <sup>(33 61 13)</sup>

Note: Includes coupling per full length of pipe. Insulation and jacketing sealed for seamless system including all fittings. Excludes excavation and backfill. See CSI section 23 01 20 91-0041 for purging of existing system, 31 23 16 00-0000 for excavation, 31 23 16 33-0001 for excavation, 31 23 16 36-0016 for backfill.

33 61 13 00-0053 Preinsulated Schedule 40 Black Steel Pipe <sup>(33 61 13 00-0052)</sup>

Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.

33 61 13 00-0054 Standard Black Steel Carrier Pipe <sup>(33 61 13 00-0053)</sup>

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0055 LF 3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	161.38 2.64 26.42	21.95
33 61 13 00-0056 LF 1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	176.88 2.91 29.06	23.69
33 61 13 00-0057 LF 1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	197.19 3.27 32.73	25.16
33 61 13 00-0058 LF 1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	211.05 3.51 35.12	26.56
33 61 13 00-0059 LF 2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	221.21 3.67 36.72	28.20
33 61 13 00-0060 LF 2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	246.06 3.99 39.91	34.87
33 61 13 00-0061 LF 3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	272.28 4.31 43.11	42.55
33 61 13 00-0062 LF 4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	343.68 5.43 54.28	54.19
33 61 13 00-0063 LF 5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	435.75 6.95 69.45	66.37
33 61 13 00-0064 LF 6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	506.82 8.06 80.63	77.76
33 61 13 00-0065 LF 8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	712.02 11.73 117.35	93.96
33 61 13 00-0066 LF 10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	923.43 15.49 154.87	111.81
33 61 13 00-0067 LF 12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	1,149.41 19.32 193.19	137.60
<b>33 61 13 00-0068 Standard Black Steel Carrier Pipe</b> <small>(33 61 13 00-0053)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0069 LF 3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	174.59 2.91 29.07	21.95
33 61 13 00-0070 LF 1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	191.41 3.20 31.96	23.69
33 61 13 00-0071 LF 1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	213.56 3.60 36.00	25.16
33 61 13 00-0072 LF 1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	228.62 3.86 38.64	26.56
33 61 13 00-0073 LF 2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	239.57 4.04 40.39	28.20
33 61 13 00-0074 LF 2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pip With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	266.02 4.39 43.91	34.87
33 61 13 00-0075 LF 3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i> <i>For Schedule 80 Pipe, Add</i>	293.83 4.74 47.42	42.55

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0076	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	370.82	54.19
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.97	
		<i>For Schedule 80 Pipe, Add</i>	59.71	
33 61 13 00-0077	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	470.47	66.37
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.64	
		<i>For Schedule 80 Pipe, Add</i>	76.40	
33 61 13 00-0078	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	547.13	77.76
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.87	
		<i>For Schedule 80 Pipe, Add</i>	88.69	
33 61 13 00-0079	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	770.70	93.96
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.91	
		<i>For Schedule 80 Pipe, Add</i>	129.08	
33 61 13 00-0080	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,000.87	111.81
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.04	
		<i>For Schedule 80 Pipe, Add</i>	170.36	
33 61 13 00-0081	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,246.00	137.60
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.25	
		<i>For Schedule 80 Pipe, Add</i>	212.50	
<b>33 61 13 00-0082</b>		<b>Standard Black Steel Carrier Pipe</b> <small>(33 61 13 00-0053)</small>		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0083	LF	3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	181.20	21.95
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.04	
		<i>For Schedule 80 Pipe, Add</i>	30.39	
33 61 13 00-0084	LF	1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	198.67	23.69
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.34	
		<i>For Schedule 80 Pipe, Add</i>	33.42	
33 61 13 00-0085	LF	1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	221.74	25.16
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.76	
		<i>For Schedule 80 Pipe, Add</i>	37.64	
33 61 13 00-0086	LF	1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	237.40	26.56
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.04	
		<i>For Schedule 80 Pipe, Add</i>	40.39	
33 61 13 00-0087	LF	2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	248.75	28.20
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.22	
		<i>For Schedule 80 Pipe, Add</i>	42.23	
33 61 13 00-0088	LF	2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	276.00	34.87
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.59	
		<i>For Schedule 80 Pipe, Add</i>	45.90	
33 61 13 00-0089	LF	3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	304.61	42.55
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.96	
		<i>For Schedule 80 Pipe, Add</i>	49.57	
33 61 13 00-0090	LF	4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	384.39	54.19
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.24	
		<i>For Schedule 80 Pipe, Add</i>	62.43	
33 61 13 00-0091	LF	5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	487.84	66.37
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.99	
		<i>For Schedule 80 Pipe, Add</i>	79.87	
33 61 13 00-0092	LF	6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	567.29	77.76
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.27	
		<i>For Schedule 80 Pipe, Add</i>	92.72	
33 61 13 00-0093	LF	8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	800.03	93.96
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.50	
		<i>For Schedule 80 Pipe, Add</i>	134.95	
33 61 13 00-0094	LF	10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,039.58	111.81
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.81	
		<i>For Schedule 80 Pipe, Add</i>	178.10	
33 61 13 00-0095	LF	12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,294.30	137.60
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.22	
		<i>For Schedule 80 Pipe, Add</i>	222.16	
<b>33 61 13 00-0096</b>		<b>Standard Black Steel Carrier Pipe</b> <small>(33 61 13 00-0053)</small>		
		Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61	13 00-0097	LF		3/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 191.10 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 3.24 <i>For Schedule 80 Pipe, Add</i> 32.37		21.95
33 61	13 00-0098	LF		1" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 209.57 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 3.56 <i>For Schedule 80 Pipe, Add</i> 35.60		23.69
33 61	13 00-0099	LF		1-1/4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 234.01 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 4.01 <i>For Schedule 80 Pipe, Add</i> 40.09		25.16
33 61	13 00-0100	LF		1-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 250.57 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 4.30 <i>For Schedule 80 Pipe, Add</i> 43.03		26.56
33 61	13 00-0101	LF		2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 262.52 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 4.50 <i>For Schedule 80 Pipe, Add</i> 44.98		28.20
33 61	13 00-0102	LF		2-1/2" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 290.97 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 4.89 <i>For Schedule 80 Pipe, Add</i> 48.90		34.87
33 61	13 00-0103	LF		3" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 320.77 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 5.28 <i>For Schedule 80 Pipe, Add</i> 52.81		42.55
33 61	13 00-0104	LF		4" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 404.75 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 6.65 <i>For Schedule 80 Pipe, Add</i> 66.50		54.19
33 61	13 00-0105	LF		5" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 513.88 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 8.51 <i>For Schedule 80 Pipe, Add</i> 85.08		66.37
33 61	13 00-0106	LF		6" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 597.52 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 9.88 <i>For Schedule 80 Pipe, Add</i> 98.77		77.76
33 61	13 00-0107	LF		8" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 844.04 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 14.38 <i>For Schedule 80 Pipe, Add</i> 143.75		93.96
33 61	13 00-0108	LF		10" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 1,097.66 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 18.97 <i>For Schedule 80 Pipe, Add</i> 189.71		111.81
33 61	13 00-0109	LF		12" Diameter Preinsulated Schedule 40 Black Steel Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 1,366.74 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 23.67 <i>For Schedule 80 Pipe, Add</i> 236.65		137.60
33 61	13 00-0110			<b>Preinsulated Black Steel Fittings</b> (33 61 13 00-0052) Note: No excavation or backfill.		
33 61	13 00-0111			<b>Elbows</b> (33 61 13 00-0110)		
33 61	13 00-0112			<b>Elbows</b> (33 61 13 00-0111) Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61	13 00-0113	EA		3/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 1,150.33 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 20.13		
33 61	13 00-0114	EA		1" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 1,185.13 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 20.60		
33 61	13 00-0115	EA		1-1/4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 1,355.42 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 23.44		
33 61	13 00-0116	EA		1-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 1,502.70 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 25.57		
33 61	13 00-0117	EA		2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 1,667.99 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 26.64		
33 61	13 00-0118	EA		2-1/2" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 1,876.59 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 27.70		
33 61	13 00-0119	EA		3" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 2,174.01 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 31.97		
33 61	13 00-0120	EA		4" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... 2,536.82 <i>For High Density Polyethylene (HDPE) Jacket, Add</i> 37.29		

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0121	EA	5" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,116.84	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	47.95	
33 61 13 00-0122	EA	6" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,478.28	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	54.46	
33 61 13 00-0123	EA	8" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,944.79	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	78.73	
33 61 13 00-0124	EA	10" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,444.38	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	100.64	
33 61 13 00-0125	EA	12" Diameter Preinsulated Black Steel Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	8,355.63	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	133.20	
<b>33 61 13 00-0126</b>		<b>Elbows</b> <small>(33 61 13 00-0111)</small>		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0127	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,225.81	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.64	
33 61 13 00-0128	EA	1" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,262.39	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.15	
33 61 13 00-0129	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,443.33	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.20	
33 61 13 00-0130	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,598.60	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	27.49	
33 61 13 00-0131	EA	2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,767.89	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.64	
33 61 13 00-0132	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,980.48	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.78	
33 61 13 00-0133	EA	3" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,293.89	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	34.36	
33 61 13 00-0134	EA	4" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,676.68	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	40.09	
33 61 13 00-0135	EA	5" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,296.66	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	51.55	
33 61 13 00-0136	EA	6" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,682.52	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	58.55	
33 61 13 00-0137	EA	8" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,240.04	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	84.64	
33 61 13 00-0138	EA	10" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	6,821.77	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	108.18	
33 61 13 00-0139	EA	12" Diameter Preinsulated Black Steel Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	8,855.11	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	143.18	
<b>33 61 13 00-0140</b>		<b>Elbows</b> <small>(33 61 13 00-0111)</small>		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0141	EA	3/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,301.29	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.15	
33 61 13 00-0142	EA	1" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,339.64	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.69	
33 61 13 00-0143	EA	1-1/4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,531.24	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.96	
33 61 13 00-0144	EA	1-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,694.50	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.41	
33 61 13 00-0145	EA	2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,867.78	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.63	
33 61 13 00-0146	EA	2-1/2" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,084.37	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.86	
33 61 13 00-0147	EA	3" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,413.76	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	36.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0148 EA 4" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,816.53	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	42.89	
33 61 13 00-0149 EA 5" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,476.47	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	55.14	
33 61 13 00-0150 EA 6" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,886.75	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	62.63	
33 61 13 00-0151 EA 8" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,535.29	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	90.54	
33 61 13 00-0152 EA 10" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,199.15	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	115.73	
33 61 13 00-0153 EA 12" Diameter Preinsulated Black Steel Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,354.59	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	153.17	
<b>33 61 13 00-0154 Elbows</b> <small>(33 61 13 00-0111)</small>		
<i>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>		
33 61 13 00-0155 EA 3/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,376.77	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.66	
33 61 13 00-0156 EA 1" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,416.89	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.24	
33 61 13 00-0157 EA 1-1/4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,619.14	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.72	
33 61 13 00-0158 EA 1-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,790.41	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.33	
33 61 13 00-0159 EA 2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,967.68	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	32.63	
33 61 13 00-0160 EA 2-1/2" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,188.27	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.94	
33 61 13 00-0161 EA 3" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,533.64	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	39.16	
33 61 13 00-0162 EA 4" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,956.39	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	45.69	
33 61 13 00-0163 EA 5" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,656.28	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	58.74	
33 61 13 00-0164 EA 6" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,090.98	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	66.72	
33 61 13 00-0165 EA 8" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,830.54	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	96.45	
33 61 13 00-0166 EA 10" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,576.54	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	123.28	
33 61 13 00-0167 EA 12" Diameter Preinsulated Black Steel Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,854.08	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	163.16	
<b>33 61 13 00-0168 Tees</b> <small>(33 61 13 00-0110)</small>		
<b>33 61 13 00-0169 Tees</b> <small>(33 61 13 00-0168)</small>		
<i>Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>		
33 61 13 00-0170 EA 3/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,710.32	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	29.89	
33 61 13 00-0171 EA 1" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,762.04	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.59	
33 61 13 00-0172 EA 1-1/4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,015.30	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	34.81	
33 61 13 00-0173 EA 1-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,234.59	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	37.98	
33 61 13 00-0174 EA 2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,481.40	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	39.56	
33 61 13 00-0175 EA 2-1/2" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,793.23	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	41.14	

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0176	EA	3" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,237.05	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	47.47	
33 61 13 00-0177	EA	4" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,777.26	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	55.38	
33 61 13 00-0178	EA	5" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,643.12	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	71.21	
33 61 13 00-0179	EA	6" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,177.61	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	80.88	
33 61 13 00-0180	EA	8" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,356.28	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	116.92	
33 61 13 00-0181	EA	10" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	9,593.58	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	149.45	
33 61 13 00-0182	EA	12" Diameter Preinsulated Black Steel Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	12,433.54	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	197.79	
<b>33 61 13 00-0183</b>		<b>Tees</b> <small>(33 61 13 00-0183)</small>		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0184	EA	3/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,822.40	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	32.13	
33 61 13 00-0185	EA	1" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,876.76	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	32.89	
33 61 13 00-0186	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,145.84	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	37.42	
33 61 13 00-0187	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,377.00	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	40.82	
33 61 13 00-0188	EA	2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,629.74	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	42.53	
33 61 13 00-0189	EA	2-1/2" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,947.51	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	44.23	
33 61 13 00-0190	EA	3" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,415.06	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	51.03	
33 61 13 00-0191	EA	4" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,984.94	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	59.54	
33 61 13 00-0192	EA	5" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,910.14	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	76.55	
33 61 13 00-0193	EA	6" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,480.89	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	86.94	
33 61 13 00-0194	EA	8" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,794.72	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	125.69	
33 61 13 00-0195	EA	10" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	10,154.00	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	160.65	
33 61 13 00-0196	EA	12" Diameter Preinsulated Black Steel Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	13,175.27	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	212.63	
<b>33 61 13 00-0197</b>		<b>Tees</b> <small>(33 61 13 00-0197)</small>		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0198	EA	3/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,934.49	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	34.37	
33 61 13 00-0199	EA	1" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,991.49	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	35.18	
33 61 13 00-0200	EA	1-1/4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,276.38	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	40.03	
33 61 13 00-0201	EA	1-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,519.42	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	43.67	
33 61 13 00-0202	EA	2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,778.09	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	45.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0203 EA 2-1/2" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,101.79 47.31	
33 61 13 00-0204 EA 3" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,593.08 54.59	
33 61 13 00-0205 EA 4" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4,192.63 63.69	
33 61 13 00-0206 EA 5" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5,177.16 81.89	
33 61 13 00-0207 EA 6" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5,784.18 93.01	
33 61 13 00-0208 EA 8" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8,233.17 134.46	
33 61 13 00-0209 EA 10" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10,714.41 171.86	
33 61 13 00-0210 EA 12" Diameter Preinsulated Black Steel Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13,917.01 227.46	
<b>33 61 13 00-0211 Tees</b> <small>(33 61 13 00-0168)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0212 EA 3/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,046.57 36.61	
33 61 13 00-0213 EA 1" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,106.21 37.48	
33 61 13 00-0214 EA 1-1/4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,406.93 42.64	
33 61 13 00-0215 EA 1-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,661.83 46.52	
33 61 13 00-0216 EA 2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,926.44 48.46	
33 61 13 00-0217 EA 2-1/2" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,256.07 50.40	
33 61 13 00-0218 EA 3" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,771.09 58.15	
33 61 13 00-0219 EA 4" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4,400.31 67.84	
33 61 13 00-0220 EA 5" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5,444.19 87.23	
33 61 13 00-0221 EA 6" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6,087.46 99.07	
33 61 13 00-0222 EA 8" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8,671.62 143.23	
33 61 13 00-0223 EA 10" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11,274.83 183.07	
33 61 13 00-0224 EA 12" Diameter Preinsulated Black Steel Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14,658.74 242.30	
<b>33 61 13 00-0225 Reducers</b> <small>(33 61 13 00-0110)</small>		
<b>33 61 13 00-0226 Reducers</b> <small>(33 61 13 00-0225)</small> Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0227 EA 3/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	964.89 16.71	
33 61 13 00-0228 EA 1" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	994.49 17.10	
33 61 13 00-0229 EA 1-1/4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,137.83 19.46	
33 61 13 00-0230 EA 1-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,262.83 21.23	

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0231	EA	2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,407.81	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.11	
33 61 13 00-0232	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,603.01	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.99	
33 61 13 00-0233	EA	3" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,849.36	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	26.53	
33 61 13 00-0234	EA	4" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,152.31	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.95	
33 61 13 00-0235	EA	5" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,637.57	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	39.80	
33 61 13 00-0236	EA	6" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,940.07	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	45.20	
33 61 13 00-0237	EA	8" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,174.98	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	65.35	
33 61 13 00-0238	EA	10" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,448.31	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	83.53	
33 61 13 00-0239	EA	12" Diameter Preinsulated Black Steel Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,051.29	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	110.55	
<b>33 61 13 00-0240</b>		<b>Reducers</b> <small>(33 61 13 00-0225)</small>		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0241	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,027.54	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	17.96	
33 61 13 00-0242	EA	1" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,058.61	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.38	
33 61 13 00-0243	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,210.79	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.92	
33 61 13 00-0244	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,342.43	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.82	
33 61 13 00-0245	EA	2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,490.72	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.77	
33 61 13 00-0246	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,689.24	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	24.72	
33 61 13 00-0247	EA	3" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,948.86	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	28.52	
33 61 13 00-0248	EA	4" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,268.39	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.28	
33 61 13 00-0249	EA	5" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,786.81	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	42.78	
33 61 13 00-0250	EA	6" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,109.59	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	48.59	
33 61 13 00-0251	EA	8" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,420.04	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	70.25	
33 61 13 00-0252	EA	10" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	5,761.54	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	89.79	
33 61 13 00-0253	EA	12" Diameter Preinsulated Black Steel Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	7,465.86	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	118.84	
<b>33 61 13 00-0254</b>		<b>Reducers</b> <small>(33 61 13 00-0225)</small>		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0255	EA	3/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,090.18	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.21	
33 61 13 00-0256	EA	1" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,122.73	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.66	
33 61 13 00-0257	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,283.76	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.38	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 61	13 00-0258	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,422.02 24.41	
	33 61	13 00-0259	EA	2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,573.64 25.43	
	33 61	13 00-0260	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,775.47 26.44	
	33 61	13 00-0261	EA	3" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,048.36 30.51	
	33 61	13 00-0262	EA	4" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,384.47 35.60	
	33 61	13 00-0263	EA	5" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,936.06 45.77	
	33 61	13 00-0264	EA	6" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,279.10 51.98	
	33 61	13 00-0265	EA	8" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4,665.08 75.15	
	33 61	13 00-0266	EA	10" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6,074.77 96.06	
	33 61	13 00-0267	EA	12" Diameter Preinsulated Black Steel Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7,880.43 127.13	
<b>33 61</b>	<b>13 00-0268</b>			<b>Reducers</b> <small>(33 61 13 00-0225)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0269	EA	3/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,152.83 20.46	
	33 61	13 00-0270	EA	1" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,186.85 20.95	
	33 61	13 00-0271	EA	1-1/4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,356.72 23.84	
	33 61	13 00-0272	EA	1-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,501.62 26.00	
	33 61	13 00-0273	EA	2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,656.55 27.09	
	33 61	13 00-0274	EA	2-1/2" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,861.70 28.17	
	33 61	13 00-0275	EA	3" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,147.85 32.50	
	33 61	13 00-0276	EA	4" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,500.55 37.92	
	33 61	13 00-0277	EA	5" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,085.30 48.75	
	33 61	13 00-0278	EA	6" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,448.61 55.37	
	33 61	13 00-0279	EA	8" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4,910.14 80.05	
	33 61	13 00-0280	EA	10" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6,388.00 102.32	
	33 61	13 00-0281	EA	12" Diameter Preinsulated Black Steel Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8,295.00 135.43	
<b>33 61</b>	<b>13 00-0282</b>			<b>Preinsulated Type K Copper Pipe</b> <small>(33 61 13 00-0052)</small> Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
<b>33 61</b>	<b>13 00-0283</b>			<b>Type K Copper Carrier Pipe</b> <small>(33 61 13 00-0282)</small> Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0284	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	49.83 0.41	19.60
	33 61	13 00-0285	LF	1" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	54.21 0.45	21.16

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0286	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	59.01	22.47
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.51	
33 61 13 00-0287	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	62.76	23.74
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.54	
33 61 13 00-0288	LF	2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	66.17	25.19
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.57	
33 61 13 00-0289	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	77.57	31.15
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.62	
33 61 13 00-0290	LF	3" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	90.33	38.01
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.67	
33 61 13 00-0291	LF	4" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	114.57	48.42
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.84	
33 61 13 00-0292	LF	5" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	142.61	59.29
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.07	
33 61 13 00-0293	LF	6" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	166.50	69.47
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.25	
33 61 13 00-0294	LF	8" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	216.60	84.27
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.82	
33 61 13 00-0295	LF	10" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	269.54	99.89
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.40	
33 61 13 00-0296	LF	12" Diameter Preinsulated Type K Copper Pipe With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	333.72	122.92
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.99	
<b>33 61 13 00-0297</b>		<b>Type K Copper Carrier Pipe</b> <small>(33 61 13 00-0282)</small>		
		Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0298	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	51.87	19.60
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.45	
33 61 13 00-0299	LF	1" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	56.45	21.16
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.49	
33 61 13 00-0300	LF	1-1/4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	61.54	22.47
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.56	
33 61 13 00-0301	LF	1-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	65.48	23.74
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.60	
33 61 13 00-0302	LF	2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	69.01	25.19
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.62	
33 61 13 00-0303	LF	2-1/2" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	80.66	31.15
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.68	
33 61 13 00-0304	LF	3" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	93.67	38.01
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.73	
33 61 13 00-0305	LF	4" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	118.77	48.42
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.92	
33 61 13 00-0306	LF	5" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	147.98	59.29
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.18	
33 61 13 00-0307	LF	6" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	172.74	69.47
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1.37	
33 61 13 00-0308	LF	8" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	225.67	84.27
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.00	
33 61 13 00-0309	LF	10" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	281.52	99.89
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2.64	
33 61 13 00-0310	LF	12" Diameter Preinsulated Type K Copper Pipe With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	348.66	122.92
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3.29	
<b>33 61 13 00-0311</b>		<b>Type K Copper Carrier Pipe</b> <small>(33 61 13 00-0282)</small>		
		Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0312	LF	3/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	52.89	19.60
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	0.47	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0313 LF 1" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	57.58 0.52	21.16
33 61 13 00-0314 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	62.80 0.58	22.47
33 61 13 00-0315 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	66.83 0.62	23.74
33 61 13 00-0316 LF 2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	70.43 0.65	25.19
33 61 13 00-0317 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	82.20 0.71	31.15
33 61 13 00-0318 LF 3" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	95.33 0.77	38.01
33 61 13 00-0319 LF 4" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	120.87 0.97	48.42
33 61 13 00-0320 LF 5" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	150.67 1.24	59.29
33 61 13 00-0321 LF 6" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	175.86 1.43	69.47
33 61 13 00-0322 LF 8" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	230.21 2.09	83.94
33 61 13 00-0323 LF 10" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	287.51 2.76	99.89
33 61 13 00-0324 LF 12" Diameter Preinsulated Type K Copper Pipe With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	356.13 3.44	122.92
<b>33 61 13 00-0325 Type K Copper Carrier Pipe</b> <small>(33 61 13 00-0282)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0326 LF 3/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	54.43 0.50	19.60
33 61 13 00-0327 LF 1" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	59.26 0.55	21.16
33 61 13 00-0328 LF 1-1/4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	64.70 0.62	22.47
33 61 13 00-0329 LF 1-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	68.87 0.67	23.74
33 61 13 00-0330 LF 2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	72.56 0.70	25.19
33 61 13 00-0331 LF 2-1/2" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	84.52 0.76	31.15
33 61 13 00-0332 LF 3" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	97.84 0.82	38.01
33 61 13 00-0333 LF 4" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	124.02 1.03	48.42
33 61 13 00-0334 LF 5" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	154.70 1.32	59.29
33 61 13 00-0335 LF 6" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	180.54 1.53	69.47
33 61 13 00-0336 LF 8" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	237.02 2.22	83.94
33 61 13 00-0337 LF 10" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	296.49 2.93	99.89
33 61 13 00-0338 LF 12" Diameter Preinsulated Type K Copper Pipe With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	367.34 3.66	122.92
<b>33 61 13 00-0339 Preinsulated Copper Fittings</b> <small>(33 61 13 00-0052)</small>		
<b>33 61 13 00-0340 Elbows</b> <small>(33 61 13 00-0339)</small>		

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**33 61 13 00-0341****Elbows** (33 61 13 00-0340)

Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0342	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	358.15
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.66
33 61 13 00-0343	EA	1" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	373.30
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4.77
33 61 13 00-0344	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	430.71
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.43
33 61 13 00-0345	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	490.80
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.92
33 61 13 00-0346	EA	2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	600.53
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.17
33 61 13 00-0347	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	747.90
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.41
33 61 13 00-0348	EA	3" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	870.54
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.40
33 61 13 00-0349	EA	4" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,016.04
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.63
33 61 13 00-0350	EA	5" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,180.44
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.10
33 61 13 00-0351	EA	6" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,287.02
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.61
33 61 13 00-0352	EA	8" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,787.91
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.23
33 61 13 00-0353	EA	10" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,392.97
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.30
33 61 13 00-0354	EA	12" Diameter Preinsulated Type K Copper Elbow With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,016.29
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	30.83

**33 61 13 00-0355****Elbows** (33 61 13 00-0340)

Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.

33 61 13 00-0356	EA	3/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	375.62
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.01
33 61 13 00-0357	EA	1" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	391.18
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.13
33 61 13 00-0358	EA	1-1/4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	451.06
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5.83
33 61 13 00-0359	EA	1-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	513.00
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.36
33 61 13 00-0360	EA	2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	623.66
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.63
33 61 13 00-0361	EA	2-1/2" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	771.95
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	6.89
33 61 13 00-0362	EA	3" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	898.29
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.95
33 61 13 00-0363	EA	4" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,048.42
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.28
33 61 13 00-0364	EA	5" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,222.07
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.93
33 61 13 00-0365	EA	6" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,334.30
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.55
33 61 13 00-0366	EA	8" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,856.25
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	19.59
33 61 13 00-0367	EA	10" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,480.32
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	25.04
33 61 13 00-0368	EA	12" Diameter Preinsulated Type K Copper Elbow With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,131.91
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	33.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>33 61 13 00-0369</b> <b>Elbows</b> <small>(33 61 13 00-0340)</small>		
Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0370    EA    3/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	393.09	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	5.36	
33 61 13 00-0371    EA    1" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	409.06	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	5.48	
33 61 13 00-0372    EA    1-1/4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	471.41	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	6.24	
33 61 13 00-0373    EA    1-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	535.20	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	6.81	
33 61 13 00-0374    EA    2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	646.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	7.09	
33 61 13 00-0375    EA    2-1/2" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	795.99	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	7.38	
33 61 13 00-0376    EA    3" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	926.04	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	8.51	
33 61 13 00-0377    EA    4" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,080.79	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	9.93	
33 61 13 00-0378    EA    5" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,263.69	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	12.76	
33 61 13 00-0379    EA    6" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,381.89	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	14.50	
33 61 13 00-0380    EA    8" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,924.41	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	20.96	
33 61 13 00-0381    EA    10" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	2,567.17	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	26.79	
33 61 13 00-0382    EA    12" Diameter Preinsulated Type K Copper Elbow With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	3,247.89	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	35.46	
<b>33 61 13 00-0383</b> <b>Elbows</b> <small>(33 61 13 00-0340)</small>		
Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0384    EA    3/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	410.56	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	5.71	
33 61 13 00-0385    EA    1" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	426.94	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	5.84	
33 61 13 00-0386    EA    1-1/4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	491.76	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	6.65	
33 61 13 00-0387    EA    1-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	557.40	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	7.25	
33 61 13 00-0388    EA    2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	669.91	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	7.55	
33 61 13 00-0389    EA    2-1/2" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	820.04	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	7.86	
33 61 13 00-0390    EA    3" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	953.78	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	9.06	
33 61 13 00-0391    EA    4" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,113.16	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	10.58	
33 61 13 00-0392    EA    5" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,305.31	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	13.60	
33 61 13 00-0393    EA    6" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,429.17	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	15.44	
33 61 13 00-0394    EA    8" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,992.75	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	22.33	
33 61 13 00-0395    EA    10" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	2,654.53	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>		
	28.54	

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0396	EA	12" Diameter Preinsulated Type K Copper Elbow With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,363.51 37.77	
<b>33 61 13 00-0397</b>		<b>Teas</b> (33 61 13 00-0399)		
<b>33 61 13 00-0398</b>		<b>Teas</b> (33 61 13 00-0397) Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0399	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	533.66 6.92	
33 61 13 00-0400	EA	1" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	556.18 7.08	
33 61 13 00-0401	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	641.79 8.06	
33 61 13 00-0402	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	731.52 8.79	
33 61 13 00-0403	EA	2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	895.62 9.16	
33 61 13 00-0404	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,116.31 9.52	
33 61 13 00-0405	EA	3" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,300.31 10.99	
33 61 13 00-0406	EA	4" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,517.64 12.82	
33 61 13 00-0407	EA	5" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,765.73 16.48	
33 61 13 00-0408	EA	6" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,921.86 18.72	
33 61 13 00-0409	EA	8" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,666.36 27.06	
33 61 13 00-0410	EA	10" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,574.04 34.59	
33 61 13 00-0411	EA	12" Diameter Preinsulated Type K Copper Tee With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	4,501.30 45.79	
<b>33 61 13 00-0412</b>		<b>Teas</b> (33 61 13 00-0397) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0413	EA	3/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	559.60 7.44	
33 61 13 00-0414	EA	1" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	582.73 7.61	
33 61 13 00-0415	EA	1-1/4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	672.01 8.66	
33 61 13 00-0416	EA	1-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	764.48 9.45	
33 61 13 00-0417	EA	2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	929.96 9.84	
33 61 13 00-0418	EA	2-1/2" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,152.03 10.24	
33 61 13 00-0419	EA	3" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,341.52 11.81	
33 61 13 00-0420	EA	4" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,565.72 13.78	
33 61 13 00-0421	EA	5" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,827.54 17.72	
33 61 13 00-0422	EA	6" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,992.06 20.13	
33 61 13 00-0423	EA	8" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,767.85 29.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0424 EA 10" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	3,703.77	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	37.19	
33 61 13 00-0425 EA 12" Diameter Preinsulated Type K Copper Tee With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	4,673.00	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	49.22	
<b>33 61 13 00-0426 Tees</b> <small>(33 61 13 00-0397)</small>		
<i>Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>		
33 61 13 00-0427 EA 3/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	585.55	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	7.96	
33 61 13 00-0428 EA 1" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	609.29	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.14	
33 61 13 00-0429 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	702.22	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.27	
33 61 13 00-0430 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	797.45	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.11	
33 61 13 00-0431 EA 2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	964.30	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.53	
33 61 13 00-0432 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,187.74	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.95	
33 61 13 00-0433 EA 3" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,382.73	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.64	
33 61 13 00-0434 EA 4" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,613.79	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	14.74	
33 61 13 00-0435 EA 5" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,889.35	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.96	
33 61 13 00-0436 EA 6" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	2,062.75	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	21.53	
33 61 13 00-0437 EA 8" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	2,868.09	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.12	
33 61 13 00-0438 EA 10" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	3,830.67	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	39.78	
33 61 13 00-0439 EA 12" Diameter Preinsulated Type K Copper Tee With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	4,847.97	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	52.65	
<b>33 61 13 00-0440 Tees</b> <small>(33 61 13 00-0397)</small>		
<i>Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.</i>		
33 61 13 00-0441 EA 3/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	611.49	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.48	
33 61 13 00-0442 EA 1" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	635.85	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	8.68	
33 61 13 00-0443 EA 1-1/4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	732.44	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	9.87	
33 61 13 00-0444 EA 1-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	830.41	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	10.77	
33 61 13 00-0445 EA 2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	998.64	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.22	
33 61 13 00-0446 EA 2-1/2" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket .....	1,223.45	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.67	
33 61 13 00-0447 EA 3" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,423.93	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	13.46	
33 61 13 00-0448 EA 4" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,661.87	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	15.70	
33 61 13 00-0449 EA 5" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,951.16	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	20.19	
33 61 13 00-0450 EA 6" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,132.95	
<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	22.93	

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0451	EA	8" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,969.58 33.15	
33 61 13 00-0452	EA	10" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	3,960.39 42.38	
33 61 13 00-0453	EA	12" Diameter Preinsulated Type K Copper Tee With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	5,019.66 56.09	
<b>33 61 13 00-0454</b>		<b>Reducers</b> (33 61 13 00-0339)		
<b>33 61 13 00-0455</b>		<b>Reducers</b> (33 61 13 00-0454) Note: With 1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0456	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	306.05 3.87	
33 61 13 00-0457	EA	1" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	319.25 3.96	
33 61 13 00-0458	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	368.65 4.50	
33 61 13 00-0459	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	420.91 4.91	
33 61 13 00-0460	EA	2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	518.77 5.12	
33 61 13 00-0461	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	660.27 5.32	
33 61 13 00-0462	EA	3" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	761.62 6.14	
33 61 13 00-0463	EA	4" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	883.96 7.17	
33 61 13 00-0464	EA	5" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,023.78 9.21	
33 61 13 00-0465	EA	6" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,114.41 10.46	
33 61 13 00-0466	EA	8" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,545.44 15.13	
33 61 13 00-0467	EA	10" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,072.76 19.34	
33 61 13 00-0468	EA	12" Diameter Preinsulated Type K Copper Reducer With 1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,604.49 25.59	
<b>33 61 13 00-0469</b>		<b>Reducers</b> (33 61 13 00-0454) Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0470	EA	3/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	320.55 4.16	
33 61 13 00-0471	EA	1" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	334.09 4.25	
33 61 13 00-0472	EA	1-1/4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	385.54 4.84	
33 61 13 00-0473	EA	1-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	439.34 5.28	
33 61 13 00-0474	EA	2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	537.96 5.50	
33 61 13 00-0475	EA	2-1/2" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	680.24 5.72	
33 61 13 00-0476	EA	3" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	784.65 6.60	
33 61 13 00-0477	EA	4" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	910.83 7.70	
33 61 13 00-0478	EA	5" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,058.33 9.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0479 EA 6" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,153.65 11.25	
33 61 13 00-0480 EA 8" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,602.17 16.26	
33 61 13 00-0481 EA 10" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,145.27 20.79	
33 61 13 00-0482 EA 12" Diameter Preinsulated Type K Copper Reducer With 1" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,700.46 27.51	
<b>33 61 13 00-0483 Reducers</b> <small>(33 61 13 00-0454)</small> Note: With 1-1/2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0484 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	335.06 4.45	
33 61 13 00-0485 EA 1" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	348.94 4.55	
33 61 13 00-0486 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	402.43 5.18	
33 61 13 00-0487 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	457.76 5.65	
33 61 13 00-0488 EA 2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	557.15 5.89	
33 61 13 00-0489 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	700.20 6.12	
33 61 13 00-0490 EA 3" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	807.68 7.06	
33 61 13 00-0491 EA 4" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	937.70 8.24	
33 61 13 00-0492 EA 5" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,092.88 10.59	
33 61 13 00-0493 EA 6" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,193.14 12.03	
33 61 13 00-0494 EA 8" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	1,658.44 17.40	
33 61 13 00-0495 EA 10" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,217.37 22.24	
33 61 13 00-0496 EA 12" Diameter Preinsulated Type K Copper Reducer With 1-1/2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	2,796.72 29.43	
<b>33 61 13 00-0497 Reducers</b> <small>(33 61 13 00-0454)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0498 EA 3/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	349.56 4.74	
33 61 13 00-0499 EA 1" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	363.78 4.85	
33 61 13 00-0500 EA 1-1/4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	419.32 5.52	
33 61 13 00-0501 EA 1-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	476.19 6.02	
33 61 13 00-0502 EA 2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	576.35 6.27	
33 61 13 00-0503 EA 2-1/2" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	720.16 6.52	
33 61 13 00-0504 EA 3" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	830.71 7.52	
33 61 13 00-0505 EA 4" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket ..... <i>For High Density Polyethylene (HDPE) Jacket, Add</i>	964.57 8.78	

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0506	EA	5" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,127.43	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	11.29	
33 61 13 00-0507	EA	6" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,232.38	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	12.82	
33 61 13 00-0508	EA	8" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	1,715.17	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	18.53	
33 61 13 00-0509	EA	10" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,289.88	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	23.69	
33 61 13 00-0510	EA	12" Diameter Preinsulated Type K Copper Reducer With 2" Polyurethane Foam Insulation And Fiberglass Reinforced Polyester (FRP) Jacket.....	2,892.69	
		<i>For High Density Polyethylene (HDPE) Jacket, Add</i>	31.35	
<b>33 61 13 00-0511</b>		<b>Preinsulated Ductile Iron Carrier Pipe</b> <small>(33 61 13 00-0505)</small> Note: With polyurethane insulation and non-metallic casing. Excludes excavation or backfill.		
<b>33 61 13 00-0512</b>		<b>Ductile Iron Carrier Pipe</b> <small>(33 61 13 00-0511)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0513	LF	4" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	192.65	62.55
33 61 13 00-0514	LF	6" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	281.96	89.83
33 61 13 00-0515	LF	8" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	380.76	108.53
33 61 13 00-0516	LF	10" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	483.74	129.16
33 61 13 00-0517	LF	12" Diameter Preinsulated Ductile Iron Pipe With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	600.53	158.96
<b>33 61 13 00-0518</b>		<b>Ductile Iron Carrier Pipe</b> <small>(33 61 13 00-0511)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0519	LF	4" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	205.06	62.59
33 61 13 00-0520	LF	6" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	300.39	89.82
33 61 13 00-0521	LF	8" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	407.59	108.53
33 61 13 00-0522	LF	10" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	519.13	129.16
33 61 13 00-0523	LF	12" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	644.69	158.96
33 61 13 00-0524	LF	14" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	705.45	169.61
33 61 13 00-0525	LF	16" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	794.95	181.72
33 61 13 00-0526	LF	18" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	894.80	193.84
33 61 13 00-0527	LF	20" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	984.84	205.96
33 61 13 00-0528	LF	24" Diameter Preinsulated Ductile Iron Pipe With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,166.31	224.13
<b>33 61 13 00-0529</b>		<b>Preinsulated Ductile Iron Fittings</b> <small>(33 61 13 00-0502)</small>		
<b>33 61 13 00-0530</b>		<b>Elbows</b> <small>(33 61 13 00-0529)</small>		
<b>33 61 13 00-0531</b>		<b>Elbows</b> <small>(33 61 13 00-0530)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0532	EA	4" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,770.60	
33 61 13 00-0533	EA	6" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,359.36	
33 61 13 00-0534	EA	8" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	3,327.21	
33 61 13 00-0535	EA	10" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	4,376.80	
33 61 13 00-0536	EA	12" Diameter Preinsulated Ductile Iron Elbow With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	5,619.13	
<b>33 61 13 00-0537</b>		<b>Elbows</b> <small>(33 61 13 00-0530)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
33 61 13 00-0538	EA	4" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	1,923.88	
33 61 13 00-0539	EA	6" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	2,583.19	
33 61 13 00-0540	EA	8" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket.....	3,650.81	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	33 61	13 00-0541	EA	10" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	4,790.41	
	33 61	13 00-0542	EA	12" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	6,166.56	
	33 61	13 00-0543	EA	14" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	7,504.36	
	33 61	13 00-0544	EA	16" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	8,878.65	
	33 61	13 00-0545	EA	18" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	11,084.16	
	33 61	13 00-0546	EA	20" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	14,055.94	
	33 61	13 00-0547	EA	24" Diameter Preinsulated Ductile Iron Elbow With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	18,175.53	
	33 61	13 00-0548		<b>Tees</b> <small>(33 61 13 00-0529)</small>		
	33 61	13 00-0549		<b>Tees</b> <small>(33 61 13 00-0548)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0550	EA	4" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	2,639.42	
	33 61	13 00-0551	EA	6" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	3,516.00	
	33 61	13 00-0552	EA	8" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	4,954.17	
	33 61	13 00-0553	EA	10" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	6,523.22	
	33 61	13 00-0554	EA	12" Diameter Preinsulated Ductile Iron Tee With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	8,369.83	
	33 61	13 00-0555		<b>Tees</b> <small>(33 61 13 00-0548)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0556	EA	4" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	2,867.04	
	33 61	13 00-0557	EA	6" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	3,848.40	
	33 61	13 00-0558	EA	8" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	5,434.71	
	33 61	13 00-0559	EA	10" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	7,137.44	
	33 61	13 00-0560	EA	12" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	9,182.77	
	33 61	13 00-0561	EA	14" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	10,977.20	
	33 61	13 00-0562	EA	16" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	12,991.51	
	33 61	13 00-0563	EA	18" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	16,220.79	
	33 61	13 00-0564	EA	20" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	20,579.65	
	33 61	13 00-0565	EA	24" Diameter Preinsulated Ductile Iron Tee With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	26,604.21	
	33 61	13 00-0566		<b>Reducers</b> <small>(33 61 13 00-0529)</small>		
	33 61	13 00-0567		<b>Reducers</b> <small>(33 61 13 00-0566)</small> Note: With 1" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0568	EA	4" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	1,516.35	
	33 61	13 00-0569	EA	6" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	2,011.37	
	33 61	13 00-0570	EA	8" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	2,832.39	
	33 61	13 00-0571	EA	10" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	3,732.22	
	33 61	13 00-0572	EA	12" Diameter Preinsulated Ductile Iron Reducer With 1" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	4,779.99	
	33 61	13 00-0573		<b>Reducers</b> <small>(33 61 13 00-0566)</small> Note: With 2" polyurethane insulation and non-metallic fiberglass reinforced polyester (FRP) casing.		
	33 61	13 00-0574	EA	4" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	1,643.57	
	33 61	13 00-0575	EA	6" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	2,197.15	
	33 61	13 00-0576	EA	8" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	3,100.96	
	33 61	13 00-0577	EA	10" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	4,075.52	
	33 61	13 00-0578	EA	12" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	5,234.36	

**33 Utilities****33 60 Hydronic and Steam Energy Utilities****33 61 Hydronic Energy Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 61 13 00-0579 EA 14" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	6,250.03	
33 61 13 00-0580 EA 16" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	7,387.59	
33 61 13 00-0581 EA 18" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	9,168.22	
33 61 13 00-0582 EA 20" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	11,702.87	
33 61 13 00-0583 EA 24" Diameter Preinsulated Ductile Iron Reducer With 2" Polyurethane Foam Insulation And High Density Polyethylene (HDPE) Jacket .....	15,166.84	
<b>33 61 13 00-0584 Tempered Water Piping Pre-Insulated</b> <small>(33 61 13 00-0052)</small>		
<b>33 61 13 00-0585 Fiberglass Reinforced Polyester (FRP) Carrier And Casing, 1" Polyurethane Insulation</b> <small>(33 61 13 00-0584)</small>		
33 61 13 00-0586 LF 4" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....	176.50	27.65
33 61 13 00-0587 LF 6" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....	233.64	33.69
33 61 13 00-0588 LF 8" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....	323.46	35.32
33 61 13 00-0589 LF 10" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....	446.25	44.16
33 61 13 00-0590 LF 12" Fiberglass Reinforced Polyester (FRP) Carrier And Casing With 1" Polyurethane Insulation .....	572.55	54.45
<b>33 61 13 00-0591 Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing, 1" Polyurethane Insulation</b> <small>(33 61 13 00-0584)</small>		
33 61 13 00-0592 LF 4" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....	87.45	33.69
33 61 13 00-0593 LF 6" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....	105.05	33.69
33 61 13 00-0594 LF 8" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....	121.77	33.69
33 61 13 00-0595 LF 10" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....	145.57	39.83
33 61 13 00-0596 LF 12" Fiberglass Reinforced Polyester (FRP) Carrier And Polyvinyl Chloride (PVC) Casing With 1" Polyurethane Insulation .....	176.14	50.55
<b>33 61 13 00-0597 Polyvinyl Chloride (PVC) Carrier And Casing, 1" Polyurethane Insulation</b> <small>(33 61 13 00-0584)</small>		
33 61 13 00-0598 LF 4" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....	87.45	33.69
33 61 13 00-0599 LF 6" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....	105.04	33.69
33 61 13 00-0600 LF 8" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....	120.23	33.69
33 61 13 00-0601 LF 10" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....	145.56	39.83
33 61 13 00-0602 LF 12" Polyvinyl Chloride (PVC) Carrier And Casing With 1" Polyurethane Insulation .....	176.14	50.55
<b>33 70 Electrical Utilities</b> <small>(33)</small>		
<b>33 71 Electrical Utility Transmission and Distribution</b> <small>(33 70)</small>		
<b>33 71 19 Electrical Underground Ducts, Ductbanks and Manholes</b> <small>(33 71)</small>		
Note: Excludes excavation and backfill. See CSI section 31 23 16 00-0000 for excavation, 31 23 16 36-0016 for backfill.		
<b>33 71 19 13 Electrical Manholes and Handholes</b> <small>(33 71 19)</small>		
<b>33 71 19 13-0001 Electrical Handholes And Pull Boxes</b> <small>(33 71 19 13)</small>		
<b>33 71 19 13-0002 Electrical Pull Boxes</b> <small>(33 71 19 13-0001)</small>		
See CSI section 33 05 63 00-0427 for handholes.		
33 71 19 13-0003 EA 24" x 36" x 24", Electric Pull Boxes, Precast Concrete .....	2,358.50	525.91
33 71 19 13-0004 EA 24" x 36" x 36", Electric Pull Boxes, Precast Concrete .....	2,846.04	582.92
33 71 19 13-0005 EA 30" x 48" x 36", Electric Pull Boxes, Precast Concrete .....	3,313.59	633.62
33 71 19 13-0006 EA 36" x 72" x 24", Electric Pull Boxes, Precast Concrete .....	5,254.46	760.34
33 71 19 13-0007 EA 36" x 60" x 36", Electric Pull Boxes, Precast Concrete .....	5,627.83	760.34
33 71 19 13-0008 EA 48" x 48" x 36", Electric Pull Boxes, Precast Concrete .....	6,064.49	792.02
33 71 19 13-0009 EA 48" x 60" x 48", Electric Pull Boxes, Precast Concrete .....	6,985.37	887.07
<b>33 71 19 13-0010 Electrical Pull Boxes (CALTRANS)</b> <small>(33 71 19 13-0001)</small>		
33 71 19 13-0011 EA Body, CALTRANS 3-1/2 Precast Concrete Pull Box .....	133.00	
33 71 19 13-0012 EA Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....	54.41	
33 71 19 13-0013 EA Bolt Down Concrete Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....	83.00	
33 71 19 13-0014 EA Bolt Down Cast Iron Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....	178.64	
33 71 19 13-0015 EA Bolt Down Steel Cover, CALTRANS 3-1/2 Precast Concrete Pull Box .....	277.79	
For Galvanized Steel Cover, Add	48.00	
33 71 19 13-0016 EA 12" Extension, CALTRANS 3-1/2 Precast Concrete Pull Box .....	67.75	
33 71 19 13-0017 EA Flat Plate Base, CALTRANS 3-1/2 Precast Concrete Pull Box .....	67.75	
33 71 19 13-0018 EA Body, CALTRANS 5 Precast Concrete Pull Box .....	189.82	
33 71 19 13-0019 EA Concrete Cover, CALTRANS 5 Precast Concrete Pull Box .....	73.18	
33 71 19 13-0020 EA Bolt Down Concrete Cover, CALTRANS 5 Precast Concrete Pull Box .....	101.78	
33 71 19 13-0021 EA Bolt Down Steel Cover, CALTRANS 5 Precast Concrete Pull Box .....	369.32	
For Galvanized Steel Cover, Add	88.01	
33 71 19 13-0022 EA 12" Extension, CALTRANS 5 Precast Concrete Pull Box .....	97.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 13-0023	EA		Flat Plate Base, CALTRANS 5 Precast Concrete Pull Box.....	90.63	
33 71 19 13-0024	EA		Body, CALTRANS 6 Precast Concrete Pull Box.....	208.60	
33 71 19 13-0025	EA		Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	98.41	
33 71 19 13-0026	EA		Bolt Down Concrete Cover, CALTRANS 6 Precast Concrete Pull Box.....	127.01	
33 71 19 13-0027	EA		Bolt Down Steel Cover, CALTRANS 6 Precast Concrete Pull Box.....	507.78	
			<i>For Galvanized Steel Cover, Add</i>	123.21	
33 71 19 13-0028	EA		12" Extension, CALTRANS 6 Precast Concrete Pull Box.....	115.86	
33 71 19 13-0029	EA		Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	108.82	
33 71 19 13-0030	EA		6" Return Flat Plate Base, CALTRANS 6 Precast Concrete Pull Box.....	151.06	
33 71 19 13-0031	EA		Body, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	304.90	
33 71 19 13-0032	EA		Bolt Down Concrete Cover, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	444.42	
33 71 19 13-0033	EA		12" Extension, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	139.33	
33 71 19 13-0034	EA		Flat Plate Base, CALTRANS 3-1/2-T Precast Concrete Pull Box.....	127.59	
33 71 19 13-0035	EA		Body, CALTRANS 5-T Precast Concrete Pull Box.....	396.35	
33 71 19 13-0036	EA		Bolt Down Concrete Cover, CALTRANS 5-T Precast Concrete Pull Box.....	643.90	
33 71 19 13-0037	EA		12" Extension, CALTRANS 5-T Precast Concrete Pull Box.....	167.49	
33 71 19 13-0038	EA		Flat Plate Base, CALTRANS 5-T Precast Concrete Pull Box.....	162.80	
33 71 19 13-0039	EA		Body, CALTRANS 6-T Precast Concrete Pull Box.....	567.67	
33 71 19 13-0040	EA		Bolt Down Concrete Cover, CALTRANS 6-T Precast Concrete Pull Box.....	902.05	
33 71 19 13-0041	EA		12" Extension, CALTRANS 6-T Precast Concrete Pull Box.....	284.83	
33 71 19 13-0042	EA		Flat Plate Base, CALTRANS 6-T Precast Concrete Pull Box.....	221.47	
<b>33 71 19 13-0043</b>			<b>Electrical Property Line Boxes</b> (33 71 19 13)		
33 71 19 13-0044	EA		3'-6" x 2'-9" x 2' Deep Property Line Box.....	4,956.40	427.70
33 71 19 13-0045	EA		4'-6" x 3'-6" x 4' Deep Property Line Box.....	5,825.64	443.53
33 71 19 13-0046	EA		6' x 4' x 5' Deep Property Line Box.....	6,391.17	538.58
33 71 19 13-0047	EA		11'-6" x 4'-6" x 6' Deep Property Line Box.....	9,786.13	792.02
<b>33 71 19 13-0048</b>			<b>Manhole Accessories</b> (33 71 19 13)		
33 71 19 13-0049	EA		6" Precast Grade Ring Riser Casting.....	653.45	184.58
33 71 19 13-0050	EA		12" Precast Grade Ring Riser Casting.....	707.66	199.97
33 71 19 13-0051	EA		36" Opening Cast Iron Frame And Cover (NEENAH #R-1640-D).....	2,580.13	307.65
33 71 19 13-0052	EA		42" Opening Cast Iron Frame And Cover (NEENAH #R-1740-E1).....	3,363.16	384.55
33 71 19 13-0053	EA		Cast Iron Adjusting Ring (NEENAH #R-1979).....	1,106.15	205.35
33 71 19 13-0054	EA		Cast Iron Frame And Cover (NEENAH #R-1640-B).....	1,399.75	230.73
<b>33 71 19 23</b>			<b>Trenched Electrical Underground Duct and Ductbanks</b> (33 71 19)		
<b>33 71 19 23-0001</b>			<b>Underground Ductbank</b> (33 71 19 23) Note: Installation of single or multiple configuration underground utility raceways assembly to have minimum 3" concrete leveling base and encased in concrete envelope. Based on minimum 100' run, minimum 30" bury depth. Includes installation in trench using the appropriate supports, cleaning to remove any obstructions and installation of nylon pull string. Excludes trenching, concrete, backfilling, grading and seeding. Duct Banks are to be installed according to the appropriate sections of the accompanying specifications. Individual rows to be stacked for larger duct bank configurations. See CSI section 03 30 53 00-0001 for concrete.		
<b>33 71 19 23-0002</b>			<b>Rigid Galvanized Steel Conduit, Galvanized Rigid Conduit (GRC) Or Rigid Galvanized Steel (RGS), Duct Bank</b> (33 71 19 23-0001) Note: Includes appropriate spacers and fittings.		
33 71 19 23-0003	LF		2 At 2", Rigid Galvanized Conduit Duct Bank.....	45.62	
33 71 19 23-0004	LF		4 At 2", Rigid Galvanized Conduit Duct Bank.....	91.28	
33 71 19 23-0005	LF		2 At 3", Rigid Galvanized Conduit Duct Bank.....	94.27	
33 71 19 23-0006	LF		4 At 3", Rigid Galvanized Conduit Duct Bank.....	189.07	
33 71 19 23-0007	LF		2 At 4", Rigid Galvanized Conduit Duct Bank.....	138.81	
33 71 19 23-0008	LF		4 At 4", Rigid Galvanized Conduit Duct Bank.....	279.02	
33 71 19 23-0009	LF		6 At 4", Rigid Galvanized Conduit Duct Bank.....	419.25	
33 71 19 23-0010	LF		2 At 5", Rigid Galvanized Conduit Duct Bank.....	261.93	
33 71 19 23-0011	LF		4 At 5", Rigid Galvanized Conduit Duct Bank.....	522.43	
33 71 19 23-0012	LF		6 At 5", Rigid Galvanized Conduit Duct Bank.....	803.34	
33 71 19 23-0013	LF		2 At 6", Rigid Galvanized Conduit Duct Bank.....	372.09	
33 71 19 23-0014	LF		4 At 6", Rigid Galvanized Conduit Duct Bank.....	746.91	
33 71 19 23-0015	LF		6 At 6", Rigid Galvanized Conduit Duct Bank.....	1,111.89	
<b>33 71 19 23-0016</b>			<b>Polyvinyl Chloride (PVC), Type EB-20 Duct Bank System</b> (33 71 19 23-0001) Note: Includes appropriate spacers and fittings.		
33 71 19 23-0017	LF		1 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	11.03	
33 71 19 23-0018	LF		2 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	24.02	
33 71 19 23-0019	LF		4 At 2", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	46.32	
33 71 19 23-0020	LF		1 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	14.70	
33 71 19 23-0021	LF		2 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	29.32	
33 71 19 23-0022	LF		4 At 3", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	59.48	
33 71 19 23-0023	LF		1 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	20.03	
33 71 19 23-0024	LF		2 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	40.12	
33 71 19 23-0025	LF		4 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	80.33	
33 71 19 23-0026	LF		6 At 4", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	120.46	
33 71 19 23-0027	LF		1 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	25.96	
33 71 19 23-0028	LF		2 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	51.85	
33 71 19 23-0029	LF		4 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	100.85	

**33 Utilities****33 70 Electrical Utilities****33 71 Electrical Utility Transmission and Distribution**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
33 71 19 23-0030 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	144.23	
33 71 19 23-0031 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	44.62	
33 71 19 23-0032 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	70.85	
33 71 19 23-0033 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	141.97	
33 71 19 23-0034 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type EB Duct Bank.....	227.00	
<b>33 71 19 23-0035 Polyvinyl Chloride (PVC), Type DB-60 Duct Bank System (33 71 19 23-0001)</b>		
Note: Includes appropriate spacers and fittings.		
33 71 19 23-0036 LF 1 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	12.29	
33 71 19 23-0037 LF 2 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	26.60	
33 71 19 23-0038 LF 4 At 2", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	51.18	
33 71 19 23-0039 LF 1 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	15.40	
33 71 19 23-0040 LF 2 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	30.76	
33 71 19 23-0041 LF 4 At 3", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	61.25	
33 71 19 23-0042 LF 1 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	20.74	
33 71 19 23-0043 LF 2 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	41.56	
33 71 19 23-0044 LF 4 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	83.20	
33 71 19 23-0045 LF 6 At 4", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	124.76	
33 71 19 23-0046 LF 1 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	27.04	
33 71 19 23-0047 LF 2 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	54.01	
33 71 19 23-0048 LF 4 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	105.17	
33 71 19 23-0049 LF 6 At 5", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	150.72	
33 71 19 23-0050 LF 1 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	46.11	
33 71 19 23-0051 LF 2 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	73.95	
33 71 19 23-0052 LF 4 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	148.18	
33 71 19 23-0053 LF 6 At 6", Duplex Polyvinyl Chloride (PVC), Type DB Duct Bank.....	236.31	
<b>33 71 19 23-0054 Male Or Female Adapters (33 71 19 23-0001)</b>		
33 71 19 23-0055 EA 2" Adapter.....	56.88	
33 71 19 23-0056 EA 3" Adapter.....	87.25	
33 71 19 23-0057 EA 4" Adapter.....	114.63	
33 71 19 23-0058 EA 5" Adapter.....	191.70	
33 71 19 23-0059 EA 6" Adapter.....	233.40	
<b>33 71 19 23-0060 Underground Electrical Concrete Markers (33 71 19 23)</b>		
33 71 19 23-0061 EA 36" x 6" x 6", Underground Electric Concrete Marker.....	462.83	

**END OF SECTION 33**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 34 Transportation

### 34 40 Transportation Signaling and Control Equipment<sup>(34)</sup>

#### 34 41 Roadway Signaling and Control Equipment<sup>(34 40)</sup>

##### 34 41 13 Traffic Signals<sup>(34 41)</sup>

##### 34 41 13 00-0001 Traffic Signals<sup>(34 41 13)</sup>

34 41 13 00-0002	EA	Single Traffic Signal Head, 4 Way Pattern.....	7,638.92	1,004.60
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##### 34 41 13 00-0003 Traffic Detector Induction Loop<sup>(34 41 13)</sup>

34 41 13 00-0004	EA	6' x 6', Type A, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	436.44	
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34 41 13 00-0005	EA	6' x 6', Type D, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	544.47	
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34 41 13 00-0006	EA	6' x 6', Type D, 5 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 5 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	627.28	
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34 41 13 00-0007	EA	6' x 6', Type Q, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	534.14	
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34 41 13 00-0008	EA	6' x 20', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	927.08	
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34 41 13 00-0009	EA	6' x 28', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,127.29	
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34 41 13 00-0010	EA	6' x 28', Type C, 3 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 3 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,212.41	
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34 41 13 00-0011	EA	6' x 40', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,469.24	
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34 41 13 00-0012	EA	6' x 40', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,595.02	
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34 41 13 00-0013	EA	6' x 50', Type C, 1 Turn Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 1 turn wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,692.10	
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34 41 13 00-0014	EA	6' x 50', Type C, 2 Turns Per Loop, Traffic Detector Induction Loop..... Note: Includes saw cutting, 2 turns wire for 1 induction loop circuit, sealing and splicing into leads in street. Excludes lead wire, controller, junction box or conduit.	1,845.76	
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34 41 13 00-0015	LF	In Pavement, Lead Wire For Traffic Signal Detector..... Note: Includes saw cutting, sealing and splicing into traffic signal loop wire in street. Excludes junction box or conduit.	8.15	
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34 41 13 00-0016	LF	In Earthwork, Lead Wire For Traffic Signal Detector..... Note: Includes trenching in earthwork and splicing into traffic signal loop wire. Excludes junction box or conduit.	3.94	
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34 41 13 00-0017	EA	2 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model 222).....	292.93	
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34 41 13 00-0018	EA	4 Channel, Rack Mounted, Traffic Loop Vehicle Detector (Reno A&E Model E-1100).....	805.19	
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34 41 13 00-0019	EA	2 Channel, Rack Mounted, Traffic Loop Bicycle Detector (Reno A&E Model C-1100).....	504.62	
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##### 34 41 13 00-0020 Overhead Traffic Signals<sup>(34 41 13)</sup>

34 41 13 00-0021	EA	Vehicle Signal Face, LED, 1 - 12" Section.....	655.57	213.48
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34 41 13 00-0022	EA	Vehicle Signal Face, LED, 2 - 12" Sections.....	1,053.20	301.38
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34 41 13 00-0023	EA	Vehicle Signal Face, LED, 3 - 12" Sections.....	1,461.03	368.35
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34 41 13 00-0024	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Middle Section Blank.....	1,393.13	368.35
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34 41 13 00-0025	EA	Vehicle Signal Face, LED, 4 - 12" Sections.....	1,839.00	410.21
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34 41 13 00-0026	EA	Vehicle Signal Face, LED, 5 - 12" Sections.....	2,183.49	435.32
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34 41 13 00-0027	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Cluster.....	2,314.77	435.32
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34 41 13 00-0028	EA	Vehicle Signal Face, LED, 1 - 8" Section.....	621.62	213.48
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34 41 13 00-0029	EA	Vehicle Signal Face, LED, 2 - 8" Sections.....	985.29	301.38
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34 41 13 00-0030	EA	Vehicle Signal Face, LED, 3 - 8" Sections.....	1,295.79	368.35
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34 41 13 00-0031	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 1 - 12" Section.....	1,379.54	368.35
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34 41 13 00-0032	EA	Vehicle Signal Face, LED, 2 - 8" Sections, 2 - 12" Section.....	1,694.13	410.21
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34 41 13 00-0033	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 1 - 12" Section.....	1,646.60	410.21
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34 41 13 00-0034	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections.....	1,934.50	435.32
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34 41 13 00-0035	EA	Vehicle Signal Face, LED, 3 - 8" Sections, 2 - 12" Sections In Cluster.....	2,040.89	435.32
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34 41 13 00-0036	EA	Vehicle Signal Face, LED, 3 - 12" Sections, Optically Programmed.....	2,864.40	368.35
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34 41 13 00-0037	EA	Vehicle Signal Face, LED, 4 - 12" Sections, Optically Programmed.....	3,724.49	410.21
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34 41 13 00-0038	EA	Vehicle Signal Face, LED, 5 - 12" Sections, Optically Programmed.....	4,831.78	435.32
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34 41 13 00-0039	EA	Vehicle Signal Face, LED, 5 - 12" Sections In Cluster, Optically Programmed.....	5,227.90	435.32
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34 41 13 00-0040	EA	Bracket Signal Mounting Assembly.....	620.07	167.43
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34 41 13 00-0041	EA	Mast Arm Signal Mounting Assembly.....	1,108.86	334.87
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34 41 13 00-0042	EA	Top Pole Signal Mounting Assembly.....	391.49	125.57
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34 41 13 00-0043	EA	Pedestrian Signal Head.....	1,113.44	251.15
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**34 Transportation****34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0044 EA Pedestrian Signal Insert.....	678.95	125.57
34 41 13 00-0045 EA Audible Pedestrian Signal.....	1,478.35	
34 41 13 00-0046 EA Junction Box, Pole Or Post Mounted.....	587.60	
34 41 13 00-0047 EA Pedestrian Push Button.....	550.19	
34 41 13 00-0048 EA Illuminated Sign, Bracket Mounted, Symbolic.....	4,113.36	
34 41 13 00-0049 EA Illuminated Sign, Mast Arm Mounted, Symbolic.....	4,306.99	
34 41 13 00-0050 EA Sign, Message, "BLANK OUT", Bracket Mounted.....	4,508.05	
34 41 13 00-0051 EA Sign, Message, "BLANK OUT", Mast Arm Mounted.....	4,802.88	
34 41 13 00-0052 EA Sign, Fiber Optic, Bracket Mounted.....	5,106.15	
34 41 13 00-0053 EA Sign, Fiber Optic, Mast Arm Mounted.....	5,407.24	
34 41 13 00-0054 EA 16' Pedestal With Base Plate And Cover.....	1,860.37	234.72
34 41 13 00-0055 EA 30' Type 15TS Signal And Lighting Standard.....	7,714.23	
Note: 8" diameter base and 3-7/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0056 EA 35' Type 21TS Signal And Lighting Standard.....	8,918.31	
Note: 9-3/8" diameter base and 3-9/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0057 EA 17' Type 18-2-100 Signal And Lighting Standard.....	4,389.84	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0058 EA 17' Type 18-3-100 Signal And Lighting Standard.....	4,854.74	
Note: 10-3/4" diameter base and 8-7/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0059 EA 17' Type 18-4-100 Or 23-4-100 Signal And Lighting Standard.....	5,032.94	
Note: 12" diameter base and 9" diameter top. 0.2391" wall thickness.		
34 41 13 00-0060 EA 17' Type 23-3-100 Signal And Lighting Standard.....	5,032.94	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0061 EA 17' Type 23-4-100 Signal And Lighting Standard.....	5,126.50	
Note: 12" diameter base and 9-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0062 EA 17' Type 27-3-100 Signal And Lighting Standard.....	5,594.32	
Note: 12-1/8" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0063 EA 17' Type 27-4-100 Signal And Lighting Standard.....	5,701.90	
Note: 13-1/2" diameter base and 9-3/4" diameter top. 0.3125" wall thickness.		
34 41 13 00-0064 EA 17' Type 28-5-100 Signal And Lighting Standard.....	5,922.47	
Note: 14" diameter base and 11-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0065 EA 17' Type 60-5-100 Signal And Lighting Standard.....	6,269.88	
Note: 16" diameter base and 13-11/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0066 EA 18'-6" Type 16-2-100 Or 16-3-100 Signal And Lighting Standard.....	4,663.32	
Note: 10-3/4" diameter base and 8-1/4" diameter top. 0.1793" wall thickness.		
34 41 13 00-0067 EA 30' Type 17-2-100 Or 17-3-100 Signal And Lighting Standard.....	8,202.37	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.1793" wall thickness.		
34 41 13 00-0068 EA 30' Type 19-2-100 Signal And Lighting Standard.....	9,178.65	
Note: 10-3/4" diameter base and 6-5/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0069 EA 30' Type 19-3-100 Or 24-3-100 Signal And Lighting Standard.....	9,552.89	
Note: 12" diameter base and 7-7/8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0070 EA 30' Type 19-4-100 Or 24-4-100 Signal And Lighting Standard.....	9,552.89	
Note: 12" diameter base and 8" diameter top. 0.2391" wall thickness.		
34 41 13 00-0071 EA 30' Type 26-3-100 Signal And Lighting Standard.....	10,731.74	
Note: 12-1/8" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0072 EA 30' Type 26-4-100 Signal And Lighting Standard.....	11,183.65	
Note: 13-1/2" diameter base and 8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0073 EA 30' Type 29-5-100 Signal And Lighting Standard.....	11,658.12	
Note: 14" diameter base and 9-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0074 EA 30' Type 61-5-100 Signal And Lighting Standard.....	12,405.45	
Note: 16" diameter base and 11-7/8" diameter top. 0.3125" wall thickness.		
34 41 13 00-0075 EA 35' Type 17A-2-100 Signal And Lighting Standard.....	9,529.09	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.1793" wall thickness.		
34 41 13 00-0076 EA 35' Type 19A-2-100 Signal And Lighting Standard.....	10,668.09	
Note: 10-3/4" diameter base and 5-15/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0077 EA 35' Type 19A-3-100 Or 24A-3-100 Signal And Lighting Standard.....	11,104.72	
Note: 12" diameter base and 7-3/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0078 EA 35' Type 19A-4-100 Or 24A-4-100 Signal And Lighting Standard.....	11,104.72	
Note: 12" diameter base and 7-5/16" diameter top. 0.2391" wall thickness.		
34 41 13 00-0079 EA 35' Type 26A-3-100 Signal And Lighting Standard.....	12,480.03	
Note: 12-1/8" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0080 EA 35' Type 26A-4-100 Signal And Lighting Standard.....	13,007.25	
Note: 13-1/2" diameter base and 7-5/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0081 EA 35' Type 29A-5-100 Signal And Lighting Standard.....	13,560.82	
Note: 14" diameter base and 9-3/16" diameter top. 0.3125" wall thickness.		
34 41 13 00-0082 EA 35' Type 61A-5-100 Signal And Lighting Standard.....	14,432.68	
Note: 16" diameter base and 11" diameter top. 0.3125" wall thickness.		
34 41 13 00-0083 EA 15' Steel Straight Mast Arm, MONOTUBE.....	3,295.05	
34 41 13 00-0084 EA 20' Steel Straight Mast Arm, MONOTUBE.....	3,463.62	
34 41 13 00-0085 EA 25' Steel Straight Mast Arm, MONOTUBE.....	3,697.53	
34 41 13 00-0086 EA 30' Steel Straight Mast Arm, MONOTUBE.....	4,916.98	
34 41 13 00-0087 EA 35' Steel Straight Mast Arm, MONOTUBE.....	5,887.28	
34 41 13 00-0088 EA 40' Steel Straight Mast Arm, MONOTUBE.....	6,310.52	
34 41 13 00-0089 EA 45' Steel Straight Mast Arm, MONOTUBE.....	6,952.35	
34 41 13 00-0090 EA 4' Steel Curved Luminaire Mast Arm.....	1,140.47	
34 41 13 00-0091 EA 6' Steel Curved Luminaire Mast Arm.....	1,478.04	
For High Rise Arm, Add	116.22	
34 41 13 00-0092 EA 8' Steel Curved Luminaire Mast Arm.....	1,849.10	
34 41 13 00-0093 EA 10' Steel Curved Luminaire Mast Arm.....	2,576.01	
For High Rise Arm, Add	171.08	
34 41 13 00-0094 EA 12' Steel Curved Luminaire Mast Arm.....	2,826.88	
For High Rise Arm, Add	201.77	
34 41 13 00-0095 EA 15' Steel Curved Luminaire Mast Arm.....	2,935.53	
For High Rise Arm, Add	225.01	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41	13	00-0096	EA	15' Tubular Aluminum Post.....	1,215.26	
34 41	13	00-0097	EA	17' Tubular Aluminum Post.....	1,299.24	
34 41	13	00-0098	EA	20' Tubular Aluminum Post.....	1,449.48	
34 41	13	00-0099	EA	CUT-OFF POLE AND CAPPED.....	230.62	
34 41	13	00-0100	EA	PAINT EXISTING SL/TS CONTROLLER COMPLETE.....	68.27	
34 41	13	00-0101	EA	PAINT EXISTING TS POST COMPLETE.....	326.94	
34 41	13	00-0102	EA	1 Channel Loop Detector Amplifier.....	1,710.26	
34 41	13	00-0103	EA	4 Channel Loop Detector Amplifier.....	3,190.27	
34 41	13	00-0104	EA	FLASHING BEACON WITH DOWNLIGHT.....	2,555.32	
34 41	13	00-0105	EA	Flashing Beacon, Bracket Mounted.....	931.32	
34 41	13	00-0106	EA	Flashing Beacon, Mast Arm Mounted.....	931.32	
34 41	13	00-0107	EA	Flashing Beacon, Solar Powered, Bracket Mounted.....	21,875.22	
34 41	13	00-0108	EA	Wireless Access Point (Proxim Tsunami MP11 954-BSUR-US).....	4,155.33	
34 41	13	00-0109	EA	Ruggedized Subscriber Unit (Proxim Tsunami MP11 954-SUA-US).....	2,244.78	
34 41	13	00-0110	EA	Smart Sensor HD (Wavetronix HD125).....	11,823.99	
34 41	13	00-0111	EA	Access Point (Sensys AP240-ES).....	5,482.83	
				Note: RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality.		
34 41	13	00-0112	EA	Sensys Access Point AP240-ESC-VER - RJ45 port supports simultaneous Ethernet and CC card communications (split via Access Box) combined with data relay, statistics-processing and VPN functionality with Integrated 1xRTT cellular data modem for data relay via CDMA.....	9,467.22	
34 41	13	00-0113	EA	Mounting Kit for Access Points and Repeaters (KIT-MTG).....	350.10	
34 41	13	00-0114	EA	Repeater (Sensys RP240-B-LL).....	2,513.13	
				Note: Nominal battery capacity of 171 Ah with seven (7) year battery-life.		
34 41	13	00-0115	EA	Wireless Flush Mounted Sensor (Sensys VSN240-F).....	1,146.45	
				Note: Excludes coring.		
34 41	13	00-0116	EA	Sensor Mounting Bracket, Cable, Lightning Surge Protector, Power Supply, Breaker, AC Surge Protector, Din Rail and Power Plug.....	2,879.18	
34 41	13	00-0117	EA	Pole Base Foundation for 17-2-80, 17-2-100, 19-2-80 Poles.....	7,265.85	2.24
34 41	13	00-0118	EA	Pole Base Foundation for 17-3-80, 19-3-80, 26-3-80 & 26-4-80 Poles.....	9,512.78	2.24
34 41	13	00-0119	EA	Pole Base Foundation for Type 15 and 21 Poles.....	5,668.34	2.24
34 41	13	00-0120	EA	Pole Base Foundation for 18-4-100, 19-4-100, 23-4-100, And 24-4-100 Poles.....	7,265.85	2.24
34 41	13	00-0121	EA	Pole Base Foundation for 26-4-100 And 27-4-100 Poles.....	9,512.78	2.24
34 41	13	00-0122	EA	LED Enhanced Pedestrian Crossing Symbol Sign.....	2,054.84	140.55
				Note: 2 required per system.		
34 41	13	00-0123	EA	42" Height, 8-1/2" Diameter Automatic Bollard Activation System.....	6,008.07	843.31
				Note: 4 required per system.		
34 41	13	00-0124	EA	Power Control Unit With Enclosure (Solar).....	20,280.69	562.21
				Note: LightGuard Systems solar power equipment Includes: one solar array consisting of 1 Siemens SP70 solar power module (21" x 47" to be pole mounted, pole not included), #14 AWG solar tray cable, mounting hardware, one enclosure (16-1/2" width x 27-1/2" height x 15" depth), two 12V 80AH deep cycle gel cell batteries and a solar power control unit (PCU).		
34 41	13	00-0125	EA	Power Control Unit With Enclosure (A/C).....	13,078.41	562.21
34 41	13	00-0126	EA	Push Button Assembly With Sign.....	1,234.62	281.10
34 41	13	00-0127	EA	Advanced Warning Signs.....	2,340.37	281.10
34 41	13	00-0128	EA	Traffic Signal Controller Unit, TS 2 Type 1 (ASC/3-1000).....	6,762.55	
34 41	13	00-0129	EA	Traffic Signal Controller Unit, TS 2 Type 2 (ASC/3-2100).....	6,954.95	
34 41	13	00-0130	EA	Traffic Signal Controller Unit, TS 2 Type 2 Econolite Model ASC/2S-2100.....	59,502.10	
34 41	13	00-0131	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 1 Way.....	1,287.64	
34 41	13	00-0132	EA	Optical Detector For Mast Arm Mounting, 1 Channel, 2 Way.....	1,400.81	
34 41	13	00-0133	EA	Optical Detector For Mast Arm Mounting, 2 Channel.....	1,772.03	
34 41	13	00-0134	EA	2 Channel Phase Selector.....	3,868.27	
34 41	13	00-0135	EA	4 Channel Phase Selector.....	6,007.28	
34 41	13	00-0136	EA	Malfunction Management Unit For Use With NEMA Controller.....	1,964.62	
34 41	13	00-0137	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 1 Way.....	1,287.64	307.65
34 41	13	00-0138	EA	Optical Detector For Pole-Side Mounting, 1 Channel, 2 Way.....	1,400.81	307.65
34 41	13	00-0139	EA	Optical Detector For Pole-Side Mounting, 2 Channel.....	1,772.03	307.65
34 41	13	00-0140	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 1 Way.....	1,287.64	307.65
34 41	13	00-0141	EA	Optical Detector For Pedestal Or Pipe Mounting, 1 Channel, 2 Way.....	1,400.81	307.65
34 41	13	00-0142	EA	Optical Detector For Pedestal Or Pipe Mounting, 2 Channel.....	1,772.03	307.65
34 41	13	00-0143	EA	Optical Detector For Span Wire Mounting, 1 Channel, 1 Way.....	1,287.64	307.65
34 41	13	00-0144	EA	Optical Detector For Span Wire Mounting, 1 Channel, 2 Way.....	1,400.81	307.65
34 41	13	00-0145	EA	Optical Detector For Span Wire Mounting, 2 Channel.....	1,772.03	307.65
34 41	13	00-0146	EA	Optical Detector For Signal Top Mounting, 1 Channel, 1 Way.....	1,287.64	307.65
34 41	13	00-0147	EA	Optical Detector For Signal Top Mounting, 1 Channel, 2 Way.....	1,400.81	307.65
34 41	13	00-0148	EA	Optical Detector For Signal Top Mounting, 2 Channel.....	1,772.03	307.65
34 41	13	00-0149	EA	Time Switch, 1-Circuit.....	280.85	
34 41	13	00-0150	EA	Digital Loop-Type Vehicle Detector Card, 2-Channel, Normal.....	396.09	
34 41	13	00-0151	EA	Digital Loop-Type Vehicle Detector Card, 2-Channel, Stretch/Delay.....	516.06	
34 41	13	00-0152	EA	Digital Loop-Type Vehicle Detector Card, 4-Channel, Normal.....	731.09	
34 41	13	00-0153	EA	Digital Loop-Type Vehicle Detector Card, 4-Channel, Stretch/Delay.....	916.70	
34 41	13	00-0154	EA	Digital Loop-Type Vehicle Detector Card Rack With Power Supply.....	2,478.51	
34 41	13	00-0155	EA	Digital Loop-Type Vehicle Detector Card Rack With Power Supply For Remote Detector Cabinet.....	2,478.51	
34 41	13	00-0156	EA	Power Line Surge Protector - Edco SHP 300-10.....	232.19	
34 41	13	00-0157	EA	Loop Detector Surge Protector - Edco SRA-6LC.....	120.06	
34 41	13	00-0158	EA	Controller Cabinet (Econolite Type "O").....	34,421.29	
34 41	13	00-0159	EA	Controller Cabinet With 1 Detector Rack And 1 Load Switch Bay.....	15,233.60	
34 41	13	00-0160	EA	Controller Cabinet With 1 Detector Rack And 2 Load Switch Bays.....	16,523.80	
34 41	13	00-0161	EA	Controller Cabinet With 2 Detector Racks And 1 Load Switch Bay.....	18,074.29	
34 41	13	00-0162	EA	Controller Cabinet With 2 Detector Racks And 2 Load Switch Bays.....	18,549.63	
34 41	13	00-0163	EA	Speed Limit Beacon Control Cabinet.....	7,667.95	
34 41	13	00-0164	EA	Remote Detector Cabinet.....	4,159.52	

**34 Transportation****34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

34 41 13 00-0165	EA	Traffic Signal Hand Control.....	1,127.09	
34 41 13 00-0166	EA	Extra Pedestrian Detector Isolation Assembly.....	900.75	
34 41 13 00-0167	EA	Fiber Optic Transceivers-Repeater Module.....	1,158.96	
34 41 13 00-0168	EA	Field Transceiver-Repeater.....	508.63	
34 41 13 00-0169	EA	Load Switch.....	111.35	
34 41 13 00-0170	EA	30" Pedestal With Base Plate And Cover.....	978.86	
34 41 13 00-0171	EA	8" Pedestal With Base Plate And Cover.....	1,425.63	
34 41 13 00-0172	EA	11" Pedestal With Base Plate And Cover.....	1,585.36	
34 41 13 00-0173	EA	15" Pedestal With Base Plate And Cover.....	1,766.06	
34 41 13 00-0174	LF	6-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	1.87	
34 41 13 00-0175	LF	12-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.01	
34 41 13 00-0176	LF	24-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.33	
34 41 13 00-0177	LF	36-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.66	
34 41 13 00-0178	LF	48-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	2.99	
34 41 13 00-0179	LF	72-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	3.53	
34 41 13 00-0180	LF	96-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	4.04	
34 41 13 00-0181	LF	144-Fiber Interconnect Cable, Fiber Optic, Single Mode.....	5.01	
34 41 13 00-0182	LF	3/16" Diameter Messenger Cable.....	0.72	0.11
34 41 13 00-0183	LF	1/4" Diameter Messenger Cable.....	0.86	0.11
34 41 13 00-0184	LF	3/8" Diameter Messenger Cable.....	1.60	0.11
34 41 13 00-0185	LF	1/2" Diameter Messenger Cable.....	3.33	0.22
34 41 13 00-0186	EA	4' Diameter x 10' Concrete Base For Poles.....	3,412.42	
		Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0187	EA	4' Diameter x 16' Concrete Base For Poles.....	5,397.24	
		Note: Includes drilling in earth, rebar, bolts, forms for exposed base, bolts and concrete.		
34 41 13 00-0188	EA	Internally Illuminated Street Name Sign, 1 Line, 4'.....	3,023.78	334.87
34 41 13 00-0189	EA	Internally Illuminated Street Name Sign, 1 Line, 6'.....	3,734.44	418.58
34 41 13 00-0190	EA	Internally Illuminated Street Name Sign, 1 Line, 8'.....	4,082.96	502.30
34 41 13 00-0191	EA	Internally Illuminated Street Name Sign, 1 Line, 10'.....	4,612.55	586.02
34 41 13 00-0192	EA	Internally Illuminated Street Name Sign, 1 Line, 12'.....	4,961.07	669.74
34 41 13 00-0193	EA	Internally Illuminated Street Name Sign, 2 Line, 4'.....	4,734.99	334.87
34 41 13 00-0194	EA	Internally Illuminated Street Name Sign, 2 Line, 6'.....	5,834.97	418.58
34 41 13 00-0195	EA	Internally Illuminated Street Name Sign, 2 Line, 8'.....	6,310.24	502.30
34 41 13 00-0196	EA	Internally Illuminated Street Name Sign, 2 Line, 10'.....	7,057.13	586.02
34 41 13 00-0197	EA	Internally Illuminated Street Name Sign, 2 Line, 12'.....	7,586.73	669.74
34 41 13 00-0198	EA	Photoelectric Controller, Multi-Volt.....	113.94	39.99
34 41 13 00-0199	EA	Photoelectric Controller, 120 Volt.....	117.11	39.99
34 41 13 00-0200	EA	Photoelectric Controller, 480 Volt.....	117.11	39.99
34 41 13 00-0201	EA	Wi-Fi Communication Unit.....	1,577.53	167.43
34 41 13 00-0202	EA	Wi-Fi Communication Unit Mounting Bracket.....	364.33	125.57
34 41 13 00-0203	EA	Wi-Fi Communication Unit Power Supply / POE Injector.....	323.61	83.71
34 41 13 00-0204	EA	Wi-Fi Communication Unit Packet.....	2,265.47	251.15
34 41 13 00-0205	LF	Preemptor Detector Cable.....	2.20	
34 41 13 00-0206	EA	Sno-Shoe Cable Storage Assembly.....	295.56	

**34 41 13 00-0207 Traffic Signal Cable (34 41 13)**

34 41 13 00-0208	LF	16 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	2.62	1.17
34 41 13 00-0209	LF	16 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	2.93	1.25
34 41 13 00-0210	LF	16 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	3.21	1.33
34 41 13 00-0211	LF	16 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	3.48	1.42
34 41 13 00-0212	LF	16 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	3.82	1.50
34 41 13 00-0213	LF	16 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	4.41	1.67
34 41 13 00-0214	LF	16 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	5.16	1.91
34 41 13 00-0215	LF	16 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	5.91	2.16
34 41 13 00-0216	LF	16 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	6.94	2.41
34 41 13 00-0217	LF	16 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	8.14	2.66
34 41 13 00-0218	LF	14 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	2.70	1.17
34 41 13 00-0219	LF	14 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	3.03	1.25
34 41 13 00-0220	LF	14 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	3.34	1.33
34 41 13 00-0221	LF	14 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	3.65	1.42
34 41 13 00-0222	LF	14 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	4.03	1.50
34 41 13 00-0223	LF	14 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	4.67	1.67
34 41 13 00-0224	LF	14 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	5.49	1.91
34 41 13 00-0225	LF	14 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	6.31	2.16
34 41 13 00-0226	LF	14 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	7.46	2.41
34 41 13 00-0227	LF	14 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	8.84	2.66
34 41 13 00-0228	LF	12 AWG, 2-Conductor, Solid, Traffic Signal Cable.....	2.87	1.17
34 41 13 00-0229	LF	12 AWG, 3-Conductor, Solid, Traffic Signal Cable.....	3.29	1.25
34 41 13 00-0230	LF	12 AWG, 4-Conductor, Solid, Traffic Signal Cable.....	3.67	1.33
34 41 13 00-0231	LF	12 AWG, 5-Conductor, Solid, Traffic Signal Cable.....	4.04	1.42
34 41 13 00-0232	LF	12 AWG, 6-Conductor, Solid, Traffic Signal Cable.....	4.52	1.50
34 41 13 00-0233	LF	12 AWG, 8-Conductor, Solid, Traffic Signal Cable.....	5.32	1.67
34 41 13 00-0234	LF	12 AWG, 10-Conductor, Solid, Traffic Signal Cable.....	6.28	1.91
34 41 13 00-0235	LF	12 AWG, 12-Conductor, Solid, Traffic Signal Cable.....	7.25	2.16
34 41 13 00-0236	LF	12 AWG, 16-Conductor, Solid, Traffic Signal Cable.....	8.72	2.41
34 41 13 00-0237	LF	12 AWG, 20-Conductor, Solid, Traffic Signal Cable.....	10.52	2.66

**34 41 13 00-0238 School Zone Flasher Beacons (34 41 13)**





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 13 00-0239 EA One 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	6,099.73	253.02
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0240 EA One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	6,142.73	253.02
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 30 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0241 EA Two 8" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	6,872.74	253.02
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0242 EA Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly.....	7,010.34	253.02
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0243 EA 10" Digit Radar Display, One 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly...	12,821.62	253.02
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 80 Watt tilted solar panel, solar regulator, and solid state flasher.		
34 41 13 00-0244 EA 10" Digit Radar Display, Two 12" Amber LED Beacon Head, Solar Panel School Zone Flasher Beacons Assembly...	13,360.86	253.02
Note: Includes 365 day timer, aluminum control/battery enclosure, 2 AGM cell batteries, brackets, 40 Watt tilted solar panel, solar regulator, and solid state flasher.		
<b>34 41 13 00-0245</b>	<b>Traffic Light Control Synchronization <small>(34 41 13)</small></b>	
34 41 13 00-0246 EA ENCOM COMPAK IP Radio/Wireless Ethernet Transceiver, 900 MHz FHSS 1 Watt output power and 128-bit data encryption with 1.1Mbps Throughput.....	5,337.66	
34 41 13 00-0247 EA ENCOM 5200R 900 MHz Serial Radio Modem, contains one Serial (RS-232 or RS-485) interface and 170/TS1/TS2 detector rack (EPR-5200R).....	4,008.34	
34 41 13 00-0248 EA ENCOM Dual 2.4/2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24/24).....	9,361.93	
34 41 13 00-0249 EA 5.8 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB58INT).....	6,320.56	
34 41 13 00-0250 EA 2.4 GHZ Broadband Radio with Integrated Antenna (COMMPAKBB24INT).....	6,320.56	
34 41 13 00-0251 EA Solar Cabinet Assembly.....	17,319.44	
34 41 13 00-0252 EA Data Controller Interface Cable Assembly.....	703.80	
34 41 13 00-0253 EA 900 MHZ Splitter.....	798.55	
34 41 13 00-0254 EA 900 MHZ Surge Suppressor.....	285.01	
34 41 13 00-0255 EA Surge-Radio Lead in Cable.....	179.14	
34 41 13 00-0256 EA 12DB GAIN YAGI Antenna.....	839.49	
34 41 13 00-0257 EA PELCO Antenna Mounting Bracket.....	577.16	
34 41 13 00-0258 MLF Coaxial Cable, LMR-400.....	4,349.70	
34 41 13 00-0259 EA Perle 16 Port Serial Server.....	4,841.19	
34 41 13 00-0260 EA Serial to Ethernet Card.....	2,459.21	
34 41 13 00-0261 EA 404 Stand Alone Modem (GDI 404).....	2,196.40	
<b>34 41 13 00-0262</b>	<b>Traffic Signal Controls <small>(34 41 13)</small></b>	
34 41 13 00-0263 EA Master Card for Type 2070 or NEMA TS2 traffic controllers (CC-TS2).....	1,962.32	
34 41 13 00-0264 EA Extension Card for Type 2070 or NEMA traffic controllers (EX-TS2).....	778.36	
34 41 13 00-0265 EA AccessBox for contract closure master card (CC-ACC).....	276.99	
34 41 13 00-0266 EA Flush Mount Wireless Sensor (ATT VSN240-F).....	1,071.32	
34 41 13 00-0267 EA Flush Mount Wireless Sensor (Speed & Count VSN240-F).....	1,071.32	
34 41 13 00-0268 EA Epoxy Tube for Installation of Wireless Sensor (VSN240-EPX).....	166.04	
34 41 13 00-0269 EA SNAPS License for each enabled AP (SNAPS-PER-AP).....	449.80	
<b>34 41 13 00-0270</b>	<b>Traffic Signal Devices <small>(34 41 13)</small></b>	
34 41 13 00-0271 EA 12" Polycarbonate Signal Head Housing (McCain).....	1,027.72	126.49
34 41 13 00-0272 EA 16" Polycarbonate Pedestrian Signal Housing (McCain).....	535.71	98.39
34 41 13 00-0273 EA Pedestrian Push Button Cap & Switch (McCain M31334).....	442.90	182.72
34 41 13 00-0274 EA Pedestrian Push Button Frame Assembly 4" Diameter Pole (McCain M19712).....	611.56	267.05
34 41 13 00-0275 EA Pedestrian Push Button Frame Assembly 2" Diameter Pole (McCain M30793).....	472.01	210.82
34 41 13 00-0276 EA 16 Channel Conflict Monitor (McCain 2010 ECLip).....	1,509.43	91.36
34 41 13 00-0277 EA LED Countdown Head (McCain GTX PS7-CFF1-VLA).....	316.24	35.14
34 41 13 00-0278 EA Traffic signal Video Detection Camera (Iteris RZ4-awdr).....	3,398.41	154.61
34 41 13 00-0279 EA Camera processor card (Iteris Edge Connect).....	7,712.76	224.88
34 41 13 00-0280 EA Wireless Broadband Radio (Encom BB58).....	7,282.76	210.82
34 41 13 00-0281 EA 24-port Gigabit and 4-port 1G/10G SFP+ Ethernet Switch (Etherwan EX77900).....	4,821.02	168.66
34 41 13 00-0282 EA Power Adapter (Mean Well DR-120-48).....	186.00	52.71
34 41 13 00-0283 LF 14/1 Cal Trans Type 2 Inductive Traffic Detection Loops (Advanced Digital Cable 8452).....	1.15	
34 41 13 00-0284 EA Radar Detection System (Wavetronix Matrix).....	14,132.10	534.09
34 41 13 00-0285 EA Pedestrian Audio Push Button (Polara APS).....	460.30	133.53
34 41 13 00-0286 EA Opticom Infrared System - Detector (GTT 711).....	1,114.55	125.37
34 41 13 00-0287 EA Opticom Infrared System - Detector (GTT 721).....	1,247.00	140.27
34 41 13 00-0288 EA Opticom Infrared System - Detector (GTT 722).....	1,736.81	195.36
34 41 13 00-0289 EA Opticom Multimode Phase Selector (GTT 764).....	5,559.17	115.51
34 41 13 00-0290 LF Opticom GPS Installation Cable (GTT 1070).....	1.37	
34 41 13 00-0291 EA Precast Concrete Traffic Pull Box, 5-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1324).....	945.05	
34 41 13 00-0292 EA Precast Concrete Traffic Pull Box, 6-T, with steel frame & diamond steel plate lid ("Traffic Signal") (Jensen Precast HT1730).....	1,002.17	
34 41 13 00-0293 EA UPS Module (Alpha Technologies FXM 350).....	1,524.96	76.91
Note: For battery backup in traffic signal control cabinet		
34 41 13 00-0294 EA Web Connected Relay Switch (Control by Web X-301 WebRelay-Dual).....	494.39	63.25
Note: To control flashing "School" signs		
34 41 13 00-0295 LF Fiber optic cable, 72 strand, single mode, riser non-plenum jacket (Optical Cable Corp DX072DSLX9KR).....	10.75	0.64
34 41 13 00-0296 LF Fiber optic cable, 12 strand, multi mode, riser non-plenum jacket (Superior Essex W30126G01 MM Fiber).....	2.72	0.55

**34 Transportation****34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41	13 00-0297	EA	12" LED Signal Module, Tinted Lens, Red (GE DR6-RTFB-VLA).....	159.64	63.25
34 41	13 00-0298	EA	12" LED Signal Module, Tinted Lens, Yellow (GE DR6-YTFB-VLA).....	159.64	63.25
34 41	13 00-0299	EA	12" LED Signal Module, Tinted Lens, Green (GE DR6-GTFB-VLA).....	159.64	63.25
34 41	13 00-0300	EA	12" LED Signal Module, Clear Lens, Red (GE DR6-RCFB-VLA).....	159.64	63.25
34 41	13 00-0301	EA	12" LED Signal Module, Clear Lens, Yellow (GE DR6-YCFB-VLA).....	159.64	63.25
34 41	13 00-0302	EA	12" LED Signal Module, Clear Lens, Green (GE DR6-GCFB-VLA).....	159.64	63.25
34 41	13 00-0303	EA	LED Countdown Pedestrian Signal, 16" x 18" (GE PS7-CFF1-VLA).....	463.54	161.63
34 41	13 00-0304	EA	EOC Switch (Actellis ML688).....	5,658.00	499.92
34 41	13 00-0305	EA	Ethernet Extender Kit (ENABLE-IT 860 Pro).....	1,517.09	115.36
34 41	13 00-0306	EA	#5 pull box lid (Concrete, Bolt down) (Christy N30T).....	127.61	29.38
34 41	13 00-0307	EA	#5 pull box lid (Steel, Bolt down) (Christy N30-61J).....	437.31	42.53
34 41	13 00-0308	EA	#6 pull box lid (Concrete, Bolt down) (Christy N36T).....	156.49	29.38
34 41	13 00-0309	EA	#6 pull box lid (Steel, Bolt down) (Christy N36-61J).....	526.70	42.53
34 41	13 00-0310	EA	Battery Back-up (Alpha FXM110 UPS).....	3,602.36	153.82
34 41	13 00-0311	EA	Battery (Alpha AlphaCell 220GXL).....	516.20	38.46
34 41	13 00-0312	EA	BBS Cabinet (Alpha SE48-1616).....	4,206.55	346.09
34 41	13 00-0313	LF	Fiber 72 Strands (Corning 072ZU4-T3F22D20).....	7.33	3.00
34 41	13 00-0314	LF	Fiber 12 Strands (Corning 012ZU4-T3F22D20).....	3.25	1.38
34 41	13 00-0315	EA	FDU & Splice Cassette with LC connector type (Corning CCH-01U, CCH-CS12-B3-P00RE).....	1,309.80	115.36
34 41	13 00-0316	EA	12" THREE SECTION HOUSING (McCain M22435).....	900.62	76.91
34 41	13 00-0317	EA	12" FOUR SECTION HOUSING (McCain M30883).....	1,164.23	115.36
34 41	13 00-0318	EA	12" FIVE SECTION HOUSING (McCain M31769).....	1,350.93	115.36
34 41	13 00-0319	EA	12" CLUSTER, WITHOUT MAS (McCain M30987).....	1,444.28	115.36
34 41	13 00-0320	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	900.62	76.91
34 41	13 00-0321	EA	NAVIGATOR iN2 APS 2 WIRE PPB #IN250N0-B (Polaris iN250N0-B).....	900.62	76.91
34 41	13 00-0322	EA	NAVIGATOR iN2 CONTROLLER RACK MOUNT iCCU-C (Polaris iCCU-C).....	5,205.88	269.19
34 41	13 00-0323	EA	NAVIGATOR iN2 INTERCONNECT BOARD iN2-ICB-C (Polaris iN2-ICB-C).....	263.61	38.46
34 41	13 00-0324	EA	NAVIGATOR iN2 POWER SUPPLY iN2-150-WPS-C (Polaris iN2-150-WPS-C).....	263.61	38.46
34 41	13 00-0325	EA	NAVIGATOR iN2 CONNECTOR iN2-C4CABLE-C (Polaris iN2-c4cable-C).....	582.11	57.68
34 41	13 00-0326	EA	12" Visor (McCain M19302).....	49.43	15.39
34 41	13 00-0327	EA	LS,2202-HV (iPack), HDSP/FLASHER UNIT,ATC (McCain M36256).....	488.76	57.68
34 41	13 00-0328	EA	SIU,2218 SERIAL INTERFACE UNIT,ATC (McCain M36258).....	807.27	76.91
34 41	13 00-0329	EA	CMU,2212-HV (ip),32 CH W/ ETHERNET PORT, ATC (McCain M36259).....	1,490.95	115.36
34 41	13 00-0330	EA	ATCC-HV, INPUT ASSEMBLY, 24 CH W/ CONN IDC26 (McCain M54487).....	807.27	76.91
34 41	13 00-0331	EA	HARN, SB1/SB2,COMM EXTENSION (McCain M48062).....	170.26	38.46
34 41	13 00-0332	EA	ATCC-HV/LV, FITA ASSEMBLY, 24CH (McCain M54489).....	488.76	57.68
34 41	13 00-0333	EA	CMU DATAKEY PROGRAMMER, EDI MONITORKEY-USB (McCain M84650).....	900.62	76.91
34 41	13 00-0334	EA	242L ISOLATOR, EDI (McCain M56812).....	170.26	38.46
34 41	13 00-0335	EA	EDI 222 DETECTOR (McCain M11407).....	216.93	38.46
34 41	13 00-0336	EA	ALPHA BBS, INVERTER & BYPASS SWITCH (McCain M59763).....	3,558.45	192.28
34 41	13 00-0337	EA	GENERATOR SWITCH AND PLUG ASS'Y FOR ALPHA BBS (McCain M68752-2).....	601.90	76.91
34 41	13 00-0338	EA	BBS BATTERY, ALPHACELL 165GXL (McCain M59884).....	807.27	76.91
34 41	13 00-0339	EA	Battery Backup Cabinet Anodize 44x26x12 (McCain M64438A).....	1,677.65	115.36

**34 41 16 Traffic Control Equipment (34 41)****34 41 16 00-0001 Transportation Control Equipment (34 41 16)**

34 41	16 00-0002	EA	CONTROLLER/SL/POLE MTD/1-PHASE/100A.....	10,759.01	1,157.30
34 41	16 00-0003	EA	CONTROLLER/SL/ON EMB POLE 1-PH/100A.....	10,892.34	1,223.94
34 41	16 00-0004	EA	CONTROLLER, SL, 3-PHASE, 100A, BASE MTD.....	13,206.61	1,238.34
34 41	16 00-0005	EA	CONTROLLER, SL, 3-PHASE, 200A, BASE MTD.....	15,708.00	1,503.55
34 41	16 00-0006	EA	CONTROLLER/SL/BASE MTD/1-PHASE/100A.....	12,780.41	741.73
34 41	16 00-0007	EA	CONTROLLER/SL/BASE MTD/1-PHASE/200A.....	14,166.98	812.05
34 41	16 00-0008	EA	CONTROLLER, TS, 12-BAY, "M" CABINET.....	23,318.67	1,276.68
34 41	16 00-0009	EA	CONTROLLER, TS, 12-BAY, "P" CABINET.....	24,834.65	1,414.81
34 41	16 00-0010	EA	CONTROLLER, TS, 12-BAY "P" CABINET With FO MASTER.....	35,413.95	1,590.62
34 41	16 00-0011	EA	CONTROLLER, TS, 16-BAY, "P" CABINET.....	28,118.13	1,506.90
34 41	16 00-0012	EA	CONTROLLER, PEDESTRIAN CROSSING, ADD-IN.....	865.18	176.97
34 41	16 00-0013	EA	CONCRETE BLOCK PEDESTAL.....	1,014.90	265.72
34 41	16 00-0014	WK	MAINTAIN EXIST TS INSTALLATION.....	427.31	213.64
34 41	16 00-0015	EA	INST SIGN BOARDS, ST. NAME.....	736.77	350.44
34 41	16 00-0016	EA	F.O. ADD-IN FOR LOCAL CONTROLLER.....	11,808.93	481.10
34 41	16 00-0017	EA	F.O. ADD-IN FOR MASTER CONTROLLER.....	28,407.52	721.88
34 41	16 00-0018	EA	PDU Equipped netBooster With IEC320 C13 Outlets (Synaccess NP-0808DUH).....	1,073.85	20.02
34 41	16 00-0019	EA	Remote Power Switched netBooster PDU, 8 Independent Outlets (Synaccess NP-0801DU).....	612.90	20.02

**34 41 16 00-0020 Transportation Cabinets (34 41 16)****34 41 16 00-0021 Transportation Cabinets (Dudlik Enclosures) (34 41 16 00-0020)**

34 41	16 00-0022	EA	50" x 30" x 17", Aluminum CCTV Cabinet (Dudlik Enclosures).....	2,881.49	230.73
34 41	16 00-0023	EA	66" x 48" x 30", Quad Door, 19" Racks, Aluminum CCTV Cabinet (Dudlik Enclosures).....	12,053.21	230.73
34 41	16 00-0024	EA	46" x 30" x 20", 19" Rack, Aluminum TTS Cabinet (Dudlik Enclosures).....	2,698.46	230.73
34 41	16 00-0025	EA	50" x 30" x 17", Aluminum ITS Controller Cabinet (Dudlik Enclosures).....	2,881.49	230.73
34 41	16 00-0026	EA	60" x 50" x 36", Quad Door, 19" Racks, Aluminum Fiber Cross Connect Cabinet (Dudlik Enclosures).....	12,459.94	230.73
34 41	16 00-0027	EA	55" x 16" x 17", Aluminum ITS Meter Cabinet (Dudlik Enclosures).....	1,885.01	230.73

**34 41 16 00-0028 Transportation Cabinets (APX Enclosures) (34 41 16 00-0020)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0029 EA 28" Wide, 16" Depth, 46" High, ITS Controller Cabinet (APX Enclosure LS503017)..... Note: 3R, single door, pad mounted aluminum enclosure. Includes natural finish, aluminum back panel, light kit with door switch, thermostatically controlled fan kit, heater kit with thermostat, one aluminum moveable shelf, and one aluminum moveable shelf with slide out drawer. Excludes pad.	6,932.39	269.19
<b>34 41 16 00-0030 Transportation Cabinets (Transportation Control Systems) (34 41 16 00-0020)</b>		
34 41 16 00-0031 EA 30" Wide, 16" Depth, 48" High, Type 4, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B483016B2D2S) .....	2,721.86	230.73
34 41 16 00-0032 EA 30" Wide, 16" Depth, 60" High, Type 4 Stretch, Aluminum Transportation Cabinet With Door Vents (Transportation Control Systems B603016B2D2S) .....	3,380.52	246.12
<b>34 41 16 00-0033 Transportation Cabinets (McCain) (34 41 16 00-0020)</b>		
34 41 16 00-0034 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 3521) .....	12,571.72	269.19
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0035 EA 24" Wide, 30" Depth, 67" High, ATC Cabinet (McCain 332) .....	12,571.72	269.19
Note: 3R, single door, pad mounted anodized aluminum enclosure. Excludes pad.		
34 41 16 00-0036 EA ATC ColdFire Controller (McCain 170).....	6,496.20	
<b>34 41 16 00-0037 Traffic Control Equipment (34 41 16)</b>		
34 41 16 00-0038 EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes Without Display (Morningstar PS-15) .....	343.86	76.91
34 41 16 00-0039 EA ProStar PWM Charge Controller 12/24 Volt, 15 Amperes With Display (Morningstar PS-15M) .....	446.84	76.91
34 41 16 00-0040 EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes With Display (Morningstar PS-30M) .....	512.24	76.91
34 41 16 00-0041 EA ProStar PWM Charge Controller 12/24 Volt, 30 Amperes Without Display (Morningstar PS-30) .....	401.04	76.91
34 41 16 00-0042 MLF 10 AWG, 2 Conductor, 600V, Type TC, Non-Shielded Control Tray Cable (EnerSys A51002R) .....	3,184.54	843.31
34 41 16 00-0043 EA Vehicle Detector, Circuit Breaker, 0.2 Amperes, Wavetronix SmartSensor (Wavetronix WX-CLK-210-02) .....	139.70	38.46
34 41 16 00-0044 EA Vehicle Detector, 2.4 GHz 12 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0141) .....	608.20	84.34
34 41 16 00-0045 EA Detection System, Vehicle, Two Sensor Preamsembled Backplate, with AC Power (Wavetronix WX-SSB01-0003).....	3,143.19	253.02
34 41 16 00-0046 EA Vehicle Detector, Power Supply, 24 Volt DC, 4 Amperes (Wavetronix WX-CLK-204).....	568.76	38.46
34 41 16 00-0047 EA Vehicle Detector, 4-Channel Contact Matrix Closure, Rack Card (Wavetronix WX-CLK-114) .....	809.45	38.46
34 41 16 00-0048 EA 4 Channel Din-Rail Contact Closure Module (Wavetronix WX-CLK-104) .....	938.68	76.91
34 41 16 00-0049 EA Detection System, Vehicle, Four Sensor Preamsembled Backplate, With AC Power, Wavetronix Smartsensor (Wavetronix WX-SS-B01-0005).....	4,046.73	76.91
34 41 16 00-0050 EA 50' Wavetronix Wiring Whip (Wavetronix WX-SS-708-060).....	506.05	253.02
34 41 16 00-0051 EA 60', 6-Conductor Power And Communication Cable With Connector (Wavetronix WX-SS-704-060).....	597.44	63.25
34 41 16 00-0052 EA 900 MHz 5 dBi Omni Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0119) .....	524.48	84.34
34 41 16 00-0053 EA 900 MHz 9 dBi Yagi Antenna, Wavetronix SmartSensor (Wavetronix WX-100-0120).....	336.12	84.34
34 41 16 00-0054 EA Wavetronix Click 201 AC To DC Power Converter (Wavetronix WX-CLK-201).....	359.46	38.46
34 41 16 00-0055 EA 24 Volt DC 2 Amperes, Wavetronix Smartsensor (Wavetronix WX-CLK-202).....	432.71	38.46
34 41 16 00-0056 EA Coax Surge N-Type, Wavetronix SmartSensor (Wavetronix WX-CLK-250) .....	202.49	38.46
34 41 16 00-0057 EA Power, RS232/RS485 Surge, Wavetronix Smartsensor (Wavetronix WX-CLK-200).....	579.22	38.46
34 41 16 00-0058 EA Two Sensor Surge, Wavetronix SmartSensor (Wavetronix WX-CLK-222).....	652.48	38.46
34 41 16 00-0059 EA RS232 to RS485 Converter, Wavetronix SmartSensor (Wavetronix WX-CLK-304) .....	809.45	38.46
34 41 16 00-0060 EA Wavetronix Click 301 Serial To Ethernet Converter (Wavetronix CLK-301) .....	76.91	38.46
34 41 16 00-0061 EA Sensor Mount, Heavy Duty, 6 inch, 2 Axis Aluminum Bracket (Wavetronix WX-SS-611).....	534.95	84.34
34 41 16 00-0062 MLF LF, UV Resistant Polyethylene Jacketed Cable (Times Microwave Systems LMR-400).....	3,707.78	843.31
34 41 16 00-0063 EA N-Male (Plug) Clamp Connector (Times Microwave Systems TC-400-NMC).....	69.17	23.07
34 41 16 00-0064 EA Spectra IV SE Back Box, Heavy-Duty, Pendant Mount (Pelco BB4HD-PG-E).....	1,068.46	92.29
34 41 16 00-0065 EA Spectra III Clear Pendant Lower Dome, Heavy Duty (Pelco Id53hdpb-1).....	1,044.79	115.36
34 41 16 00-0066 EA 24" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2000) .....	234.04	38.46
34 41 16 00-0067 EA 10" Height, Ceiling/Pedestal Mount For Pan/Tilts Or Enclosures (Pelco pm2010) .....	174.37	38.46
34 41 16 00-0068 EA 24 Volt AC, Remote Data Port (Pelco IPS-RDPE-2).....	553.38	38.46
34 41 16 00-0069 EA Spectra IV Remote Monitor Interface Cable (Pelco IPS-CABLE) .....	235.87	38.46
34 41 16 00-0070 EA 120 Volt AC, 12.5 Watt, 12 Volt DC, 600 mA, External Plug In Power Supply (Triad Magnetics WDU12-600) .....	100.73	38.46
34 41 16 00-0071 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-0009).....	781.71	76.91
Note: Input/Output for sign peripherals.		
34 41 16 00-0072 EA Control Area Network Direct Current Input/Output (Daktronics 0P-1247-4009).....	781.71	76.91
Note: Input/Output for sign peripherals.		
34 41 16 00-0073 EA Control Area Network Distribution Board (Daktronics 0P-1248-0005) .....	1,461.92	76.91
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0074 EA Control Area Network Distribution Board (Daktronics 0P-1248-0011) .....	1,461.92	76.91
Note: Signal distribution point between sign modules and peripherals, and VFC-3000 Field Controller.		
34 41 16 00-0075 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0019).....	509.62	76.91
Note: Measures temperature and detects light and reports to CAN Dist Board.		
34 41 16 00-0076 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0015).....	718.92	76.91
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0077 EA Control Area Network Temperature, Light Sensor, And Humidity (Daktronics 0P-1247-0021).....	718.92	76.91
Note: Measures temperature and detects light and humidity and reports to CAN Dist board.		
34 41 16 00-0078 EA Control Area Network Temperature And Light Sensor (Daktronics 0P-1247-0003).....	593.34	76.91
Note: Measures temperature and detects light and reports to CAN Dist board.		
34 41 16 00-0079 EA Controller, VFC-3000 Field Controller NTCIPv1 (Daktronics 0A-1248-0016) .....	10,033.62	307.65
Note: The "brains" of the sign. Receives information from NTCIP central software and reports status and diagnostic information.		
34 41 16 00-0080 EA DC/DC, Direct Current to Direct Current Converter (Daktronics 0P-1247-0025) .....	432.71	38.46
Note: Takes 24 Volt DC input from two power supplies and outputs 9 Volt DC for CAN Dist Board, providing power redundancy.		
34 41 16 00-0081 EA Driver (Daktronics 0P-1100-0026).....	813.73	61.53
Note: Driver takes data packets from Control Area Network to determine what pixels (LED clusters) are ON and which are OFF.		

**34 Transportation****34 40 Transportation Signaling and Control Equipment****34 41 Roadway Signaling and Control Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0082 EA External Temp Sensor (Daktronics 0P-1100-0014) ..... Note: Sensor that measures ambient temperature.	719.55	61.53
34 41 16 00-0083 EA Internal Temp Sensor (Daktronics 0P-1100-0038) ..... Note: Sensor that measures sign internal temperature.	803.26	61.53
34 41 16 00-0084 EA Light Level Detector (Daktronics 0P-1151-0002) ..... Note: The values from the light sensors are used by the sign controller to determine the appropriate sign brightness.	489.32	61.53
34 41 16 00-0085 EA Module (Daktronics 0A-1253-0608) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,461.92	76.91
34 41 16 00-0086 EA Module (Daktronics 0A-1253-3018) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,828.19	76.91
34 41 16 00-0087 EA Module (Daktronics 0A-1266-5002) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,618.90	76.91
34 41 16 00-0088 EA Module (Daktronics 0A-1332-6252) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	2,246.78	76.91
34 41 16 00-0089 EA Module (Daktronics 0A-1332-6455) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,828.19	76.91
34 41 16 00-0090 EA Module (Daktronics 0A-1332-6654) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	1,828.19	76.91
34 41 16 00-0091 EA Module (Daktronics 0P-1332-3015) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	991.01	76.91
34 41 16 00-0092 EA Module (Daktronics 0P-1332-4116) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	991.01	76.91
34 41 16 00-0093 EA Module (Daktronics 0P-1332-5031) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	991.01	76.91
34 41 16 00-0094 EA Module (Daktronics 0P-1332-5017) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display.	991.01	76.91
34 41 16 00-0095 EA Module Without Pan (Daktronics 0A-1253-0603) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).	1,461.92	76.91
34 41 16 00-0096 EA Module Without Pan (Daktronics 0A-1253-1605) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).	1,461.92	76.91
34 41 16 00-0097 EA Module Without Pan (Daktronics 0A-1254-1601) ..... Note: Printed circuit board with pixels (clusters of light emitting diodes) that illuminate on face of display; without Pan (pan is the metal bracket that holds the module securely in place in the sign).	1,461.92	76.91
34 41 16 00-0098 EA Pixel Strip (Daktronics 0P-1100-0016) ..... Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.	520.09	76.91
34 41 16 00-0099 EA Pixel Strip (Daktronics 0P-1100-0029) ..... Note: Pixel Strip is a smaller section of a module. Typically has three pixels (LED clusters) per strip.	603.81	76.91
34 41 16 00-0100 EA Power Supply (Daktronics A-1593) ..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,723.54	76.91
34 41 16 00-0101 EA Power Supply (Daktronics A-1648) ..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	1,723.54	76.91
34 41 16 00-0102 EA Power Supply (Daktronics A-2307) ..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	677.06	76.91
34 41 16 00-0103 EA Surge Suppressor (Daktronics A-1129) ..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	280.66	46.15
34 41 16 00-0104 EA Surge Suppressor (Daktronics A-1412) ..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	563.21	46.15
34 41 16 00-0105 EA Surge Suppressor (Daktronics A-1772) ..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	563.21	46.15
34 41 16 00-0106 EA Surge Suppressor (Daktronics A-2139) ..... Note: Receives 120 Volt AC input and outputs appropriate Volt DC for modules.	824.83	46.15
34 41 16 00-0107 EA VCB, Vanguard Control Board (Daktronics 0P-1248-0022) ..... Note: Receives high speed serial communication over fiber or CAT5 from VFC-3000 and reports sign status and peripheral diagnostics.	1,399.13	76.91
34 41 16 00-0108 EA VMS I/O, Variable Message Sign Input/Output (Daktronics 0P-1194-0001) ..... Note: Input/Output board for sign peripherals.	1,880.52	76.91
34 41 16 00-0109 EA Power Supply Assembly (Daktronics A-1856R) .....	1,252.63	76.91
34 41 16 00-0110 EA Power Supply Isolation Board (Daktronics 0P-1447-2000) .....	834.03	76.91
34 41 16 00-0111 EA Ventilation/Circulation Fan (Daktronics B-1075) .....	331.72	76.91
34 41 16 00-0112 EA VMS Controller (V2) (Daktronics 0A-1248-0028) .....	10,033.62	307.65
34 41 16 00-0113 EA Photo/Temp Sensor (Daktronics 0P-1247-0015) .....	718.92	76.91
34 41 16 00-0114 EA Defog Fan (Daktronics B-1053) .....	129.23	38.46
34 41 16 00-0115 EA Defog Heater (Daktronics A-1792) .....	160.63	38.46
34 41 16 00-0116 EA Display Card 1500, 15' Clear (Ver-Mac PB-AFF-06023A-03 PF) .....	938.68	76.91
34 41 16 00-0117 EA Display Card 1500, 30' Amber (Ver-Mac PB-AFF-06023-01 PF) .....	938.68	76.91
34 41 16 00-0118 EA 1-Port Decoder With H.264 And High-Definition Technology (Verint S1801E-R) .....	1,214.19	77.01
34 41 16 00-0119 EA 1-Port Video Encoder Featuring H.264 Technology With One Bi-directional Audio Channel And 12V DC Universal Power Supply (Verint S1801E) .....	1,214.19	77.01
34 41 16 00-0120 EA 16-Port Video Encoder Featuring H.264 Technology (Verint S1816E) .....	6,434.82	77.01
34 41 16 00-0121 EA Encoder H.264 Compact, Hiperfmc (Verint S1802E) .....	1,559.84	77.01
34 41 16 00-0122 EA 110 Volt AC To 12 Volt DC At 45 Watt, Transformer (Verint PS1261) .....	223.56	38.46
34 41 16 00-0123 EA 1-Channel Encoder, H.264 Dual-Streaming, SD Card Slot (Bosch VIP-X1XF-E) .....	759.91	77.01
34 41 16 00-0124 EA Single/Quad-Stream Decoder (Bosch VIP-XD) .....	1,934.00	77.01
34 41 16 00-0125 EA 1-Output, Outdoor-Rated CCTV Power Supply Unit, 24/26/28 Volt AC (Pelco WCS1-4) .....	326.79	76.91
34 41 16 00-0126 EA 4-Outputs, Outdoor-Rated CCTV Power Supply With Circuit Breaker, 24/28 Volt AC (Pelco WCS4-20B) .....	679.76	76.91
34 41 16 00-0127 EA 12.5KVA, 12 Volt, 75Ah, UPS Battery (UPG UB12750) .....	297.45	19.25
34 41 16 00-0128 EA Managed Ethernet Switch with 4 10/100TX Ports + 4 100FX Fiber Ports (EtherWAN EX71440-B0B) .....	3,731.31	153.82
34 41 16 00-0129 EA Power Supply, Hardened, External 100-240 Volt AC Input; TS2 rated; 12 Volt DC Output Power (EtherWAN 41-136046-1) .....	242.85	38.46
34 41 16 00-0130 EA 4kVA / 3.6kW Split-Phase Power Module (Eaton 9PXMSPPM) .....	3,362.99	76.91
34 41 16 00-0131 EA 208-240 Volt, 4-20kVA Rack/Tower UPS (Eaton 9PXM) .....	8,049.94	380.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 41 16 00-0132 EA 30 Amperes, 600 Volt, 3-Pole, Fusible, NEMA 3R Rainproof, Safety Switch (Square D H361RB).....	1,106.57	199.97
34 41 16 00-0133 EA 30 Amperes, 600 Volt, LKS Fuse (Eaton Bussmann LKS-30).....	30.45	12.30
34 41 16 00-0134 EA 60 Amperes, 600 Volt, 3-Pole, Fusible, Heavy Duty, Safety Switch (Square D H362DS).....	2,784.77	153.82
34 41 16 00-0135 EA 60 Amperes, 600 Volt, Dual Element, Time-Delay Fuse (Eaton Bussmann FRS-R-60).....	62.22	12.30
34 41 16 00-0136 EA 50 Mbps, MIMO 2x2, 15 dBi Integrated Antenna (Proxim Wireless TSUNAMI QB-820).....	2,448.07	84.34
34 41 16 00-0137 EA Singlemode Loaded Fiber Adapter Panel, 6 Simplex SC/UPC Adapters (Multi-Link 10-4810).....	154.53	58.45
34 41 16 00-0138 EA 12" x 6" x 5-1/2", 2 Panel, 2 Splice Dual Security Door, Compact Wall Mount Fiber Distribution Unit (Multilink 10-4469).....	410.06	76.91
34 41 16 00-0139 EA Single AC Inlet, 8 Nema 5-15 Outlets, Built-in AC Current Drawing Sensing Module (Synaccess NP-0801DT).....	687.24	20.02
34 41 16 00-0140 EA Aggregated TRMS AC Current Sensing, One Readout For All Outlets (Synaccess NP-0801DT(H)).....	740.12	20.02
34 41 16 00-0141 EA 550 Watt, 120 Volt AC, Fan Heater With Adjustable Thermostat, 32-140 Degree Fahrenheit (Stego CR-027).....	400.54	30.76
34 41 16 00-0142 EA 10/100M Switch, 4 x 1G Combo, LAN Base (Cisco IE-4000-4TC4G-E).....	4,809.03	184.58
34 41 16 00-0143 EA 12 Port, 2 Panel, Wall Mount, Compact Fiber Distribution Unit (Multilink FWM012XLC).....	186.44	35.38
34 41 16 00-0144 EA 6-Fiber, Singlemode, SC Simplex, Fiber Optic Cable Connector Panel (Multilink MSC-06-SM-C-BLK).....	47.08	7.69
34 41 16 00-0145 EA 170 Watt AC To DC, Industrial Ethernet Family Power Supply (Cisco PWR-IE170W-PC-AC).....	1,507.05	76.91
34 41 16 00-0146 EA 12 Port, Industrial Ethernet Layer 3 Switch Installed In Transportation Control Equipment (Cisco IE-4000-4GC4GP4G-E).....	5,215.63	153.82
34 41 16 00-0147 EA 2 KVA, 1,800 Watt, 120 Volt AC Output, 120 Volt AC Input, Single Phase, On-Line Uninterruptible Power Supply (UPS) (Xtreme Power P90-3000).....	3,587.71	253.80
34 41 16 00-0148 EA 100 Amperes, 16 Circuit, Main Lug Load Center Panelboard, 8-1 AWG, 120/240 Volt, Single Phase (Square D QO816L100DS).....	969.51	439.93
34 41 16 00-0149 EA 70 Amperes, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase (Square D QO24L70S).....	676.27	307.65
34 41 16 00-0150 EA 60 Amperes, 120/240 Volt, 2 Pole Common Trip Miniature Circuit Breaker, Plug On Mounting (Square D QO260).....	132.94	41.53
34 41 16 00-0151 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QOT1515).....	99.13	27.69
34 41 16 00-0152 EA 15 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	80.22	27.69
34 41 16 00-0153 EA 20 Amperes, 120/240 Volt, 1 Pole Thermal Magnetic Miniature Circuit Breaker, Plug On Mounting (Square D QO120).....	80.22	27.69
34 41 16 00-0154 EA One Output Outdoor-rated CCTV Power Supply Unit, 24/26/28 Volt AC At 4 Amperes Total Supply Current, Fuse Protected Output, UL Listed (Pelco WCS1-4).....	326.79	76.91
34 41 16 00-0155 EA DIN Rail Mount, Switching Power Supply (TKH Security PSR12DC).....	336.10	38.51
34 41 16 00-0156 EA H.264 Multi-codec Video Encoder With Audio, Data And CC's (TKH Security C-60-E-MC).....	3,028.78	38.51
34 41 16 00-0157 EA Expansion Power Module For IE-3000-4TC And IE-3000-8TC (Cisco PWR-IE50W-AC-IEC).....	592.53	20.02
34 41 16 00-0158 EA Traffic Monitoring System (BlueToad Spectra Cellular/Solar Version).....	12,138.47	253.02
34 41 16 00-0159 EA Ubiquiti Rocket M9 Wireless Access Point (ROCKETM9).....	487.86	84.34

### 34 70 Transportation Construction and Equipment <sup>(34)</sup>

#### 34 71 Roadway Construction <sup>(34 70)</sup>

##### 34 71 13 Vehicle Barriers <sup>(34 71)</sup>

##### 34 71 13 13 Vehicle Median Barriers <sup>(34 71 13)</sup>

##### 34 71 13 13-0001 Concrete Median Barrier <sup>(34 71 13 13)</sup>

34 71 13 13-0002 LF Median Barrier, Precast, 42" High Single Face.....	88.17	4.10
34 71 13 13-0003 LF Median Barrier, Precast, 32" High, 2' Wide Base, Double Face.....	120.23	4.10
34 71 13 13-0004 LF Median Barrier, Precast, 42" High, 2' Wide Base, Double Face.....	154.07	4.10
34 71 13 13-0005 LF Median Barrier, Cast In Place With Steel Forms.....	58.92	6.85
34 71 13 13-0006 LF Median Barrier, Slipformed Concrete.....	48.29	3.37

##### 34 71 13 16 Vehicle Crash Barriers <sup>(34 71 13)</sup>

##### 34 71 13 16-0001 Impact Barrier, Non-Redirective <sup>(34 71 13 16)</sup>

##### 34 71 13 16-0002 Sand Barrel Impact Attenuator <sup>(34 71 13 16-0001)</sup>

34 71 13 16-0003 EA 200, 400 Or 700 LB Sand Barrel.....	582.19	48.58
Note: Includes containers, inserts, and lid.		

##### 34 71 13 26 Vehicle Guide Rails <sup>(34 71 13)</sup>

##### 34 71 13 26-0001 Mobilize Guide Rail Crew <sup>(34 71 13 26)</sup>

34 71 13 26-0002 EA Mobilize Guide Rail Crew.....	1,238.65	
Note: Excludes equipment mobilization.		

##### 34 71 13 26-0003 Corrugated Beam Guide Rail <sup>(34 71 13 26)</sup>

##### 34 71 13 26-0004 Corrugated Beam Guide Railing <sup>(34 71 13 26-0003)</sup>

##### 34 71 13 26-0005 Corrugated Beam Guide Railing, Straight Sections <sup>(34 71 13 26-0004)</sup>

Note: Add additional length for back-up sections.		
34 71 13 26-0006 LF Corrugated Beam Guide Railing.....	18.82	2.21
34 71 13 26-0007 LF Corrugated Beam Guide Railing (Rustic).....	20.31	2.21

##### 34 71 13 26-0008 Corrugated Beam Guide Railing, Shop Curved <sup>(34 71 13 26-0004)</sup>

Note: Add additional length for back-up sections.

**34 Transportation****34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0009	LF		Shop Curved Corrugated Beam Guide Railing .....	24.69	2.21
34 71 13 26-0010	LF		Shop Curved Corrugated Beam Guide Railing (Rustic).....	26.76	2.21
34 71 13 26-0011	LF		Shop Curved Corrugated Beam Guide Railing End .....	63.87	2.21
			Note: Treatment for mall barriers driveways, walkways, special end, etc.		
34 71 13 26-0012	LF		Shop Curved Corrugated Beam Guide Railing (Rustic) End.....	69.72	2.21
			Note: Treatment for mall barriers shop curved corrugated beam guide railing end etc.		
<b>34 71 13 26-0013</b>			<b>Corrugated Beam Guide Railing, Manufactured End Sections</b> (34 71 13 26-0003)		
34 71 13 26-0014	EA		Corrugated Beam Guide Railing End Section At Anchor Unit.....	140.21	29.20
34 71 13 26-0015	EA		Corrugated Beam Guide Railing End Section (Rustic) At Anchor Unit .....	148.21	29.20
34 71 13 26-0016	EA		Corrugated Beam Guide Railing Flared Or 180 Degree End Section .....	188.20	29.20
34 71 13 26-0017	EA		Corrugated Beam Guide Railing Flared Or 180 Degree End Section (Rustic).....	196.20	29.20
34 71 13 26-0018	EA		Corrugated Beam Guide Railing 225 Degree End Section .....	188.20	29.20
34 71 13 26-0019	EA		Corrugated Beam Guide Railing 225 Degree End Section (Rustic).....	196.20	29.20
<b>34 71 13 26-0020</b>			<b>Corrugated Beam Guide Rail Posts</b> (34 71 13 26-0003)		
			Note: Includes mounting hardware.		
34 71 13 26-0021	EA		Standard Post For Corrugated Beam Guide Rail .....	149.09	15.84
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	4.22	
34 71 13 26-0022	EA		Standard Post For (Rustic) Corrugated Beam Guide Rail.....	157.08	15.84
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	4.22	
34 71 13 26-0023	EA		Extra Long Post For Corrugated Beam Guide Rail .....	165.08	15.84
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	4.22	
34 71 13 26-0024	EA		Extra Long Post (Rustic) for Corrugated Beam Guide Rail .....	173.08	15.84
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	4.22	
34 71 13 26-0025	EA		6B8-1/2" or Mall Barrier Post for Corrugated Beam Guide Rail .....	149.09	15.84
			For Installation Without Soil Plate, Deduct	-5.00	
			For Installation In Rock, Add	4.22	
34 71 13 26-0026	EA		Post Struts for Corrugated Beam Guide Rail Mall Barrier Post.....	213.07	15.84
			For Installation In Rock, Add	4.22	
<b>34 71 13 26-0027</b>			<b>Heavy Post Blocked Out Corrugated Beam Guide Rail Posts</b> (34 71 13 26-0003)		
			Note: Includes mounting hardware. Excludes triangular mounting brackets.		
34 71 13 26-0028	EA		Standard Post For Heavy Post Blocked Out Corrugated Beam Guide .....	149.09	15.84
34 71 13 26-0029	EA		Standard Rustic Post For Heavy Post Blocked Out Corrugated Beam Guide .....	157.08	15.84
34 71 13 26-0030	EA		Extra Long Post for Heavy Post Blocked Out Corrugated Beam Guide.....	165.08	15.84
34 71 13 26-0031	EA		Extra Long Post (Rustic) For heavy post blocked out corrugated beam guide rail.....	173.08	15.84
			Note: For heavy post blocked out corrugated beam guide (rustic)		
34 71 13 26-0032	EA		Type A Post 1630mm Post .....	145.09	15.84
			Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0033	EA		Type A Post 1630mm Post (Rustic).....	153.09	15.84
			Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0034	EA		Type B Post 1460mm .....	137.09	15.84
			Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0035	EA		Type B Post 1460mm (Rustic) .....	145.09	15.84
			Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0036	EA		Type C Post 1290mm .....	129.09	15.84
			Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0037	EA		Type C Post 1290mm (Rustic).....	137.09	15.84
			Note: For heavy post blocked out corrugated beam guide rail		
34 71 13 26-0038	EA		Breakaway Wood Or Steel Post In Steel Foundation Tube .....	550.26	15.84
34 71 13 26-0039	EA		Wood, Metal, Plastic Or Composite Offset Block Or Beam.....	61.11	15.84
			Note: For heavy post blocked out corrugated beam guide rail.		
<b>34 71 13 26-0040</b>			<b>Corrugated Beam Guide Rail Accessories</b> (34 71 13 26-0003)		
34 71 13 26-0041	EA		Triangular Mounting Brackets (Galvanized Or Rustic) For All Post Types A, B And C .....	124.22	33.18
<b>34 71 13 26-0042</b>			<b>Corrugated Beam Guide Rail Repair for Existing Guide Rail</b> (34 71 13 26-0003)		
			Note: Includes associated hardware.		
34 71 13 26-0043	LF		Removal And Storage Of Corrugated Beam Guide Railing And Post.....	12.97	
34 71 13 26-0044	EA		Install Stored Post For Corrugated Beam Guide Rail .....	44.24	
34 71 13 26-0045	LF		Install Stored Corrugated Beam Guide Railing And Post.....	7.52	
<b>34 71 13 26-0046</b>			<b>Corrugated Thrie Beam Guide Railing</b> (34 71 13 26-0003)		
<b>34 71 13 26-0047</b>			<b>Corrugated Thrie Beam Guide Railing. Straight Sections</b> (34 71 13 26-0046)		
			Note: Add additional length for back-up sections.		
34 71 13 26-0048	LF		Corrugated Thrie Beam Guide Railing .....	44.54	2.78
34 71 13 26-0049	LF		Corrugated Thrie Beam Guide Railing (Rustic).....	46.98	2.78
<b>34 71 13 26-0050</b>			<b>Corrugated Thrie Beam Guide Railing. Shop Curved</b> (34 71 13 26-0046)		
			Note: Add additional length for back-up sections.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0051 LF Shop Curved Corrugated Thrie Beam Guide Railing .....	54.29	2.78
34 71 13 26-0052 LF Shop Curved Corrugated Thrie Beam Guide Railing (Rustic).....	56.73	2.78
<b>34 71 13 26-0053 Corrugated Thrie Beam Guide Rail Posts (34 71 13 26-0046)</b>		
Note: Includes hardware for mounting.		
34 71 13 26-0054 EA Standard Post For Corrugated Thrie Beam Guide Rail.....	179.66	2.78
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
34 71 13 26-0055 EA Standard Post (Rustic) For Corrugated Thrie Beam Guide Rail .....	187.66	2.78
For Installation Without Soil Plate, Deduct	-5.00	
For 32" Soil Plate, Add	7.00	
<b>34 71 13 26-0056 Timber Guide Rails (34 71 13 26)</b>		
Note: Includes drilling and fasteners. Excludes excavation, auguring and concrete.		
<b>34 71 13 26-0057 Timber Guide Rail Posts (34 71 13 26-0056)</b>		
34 71 13 26-0058 EA 6" x 8" Timber Guide Rail Post .....	112.58	11.06
34 71 13 26-0059 EA 6" x 9" Timber Guide Rail Post .....	128.95	11.06
34 71 13 26-0060 EA 10" x 10" Timber Guide Rail Post .....	257.23	11.06
34 71 13 26-0061 EA 10" x 12" Timber Guide Rail Post .....	272.53	11.06
34 71 13 26-0062 EA 12" x 12" Timber Guide Rail Post .....	316.14	11.06
<b>34 71 13 26-0063 Timber Guide Rails (34 71 13 26-0056)</b>		
Note: Excludes posts, spacer blocks and steel backup plates.		
34 71 13 26-0064 LF 4" x 9" Timber Guide Rail.....	14.00	1.33
34 71 13 26-0065 LF 6" x 10" Timber Guide Rail.....	19.89	1.33
34 71 13 26-0066 LF 6" x 12" Timber Guide Rail.....	23.34	1.33
<b>34 71 13 26-0067 Spacer Blocks For Timber Guide Rails (34 71 13 26-0056)</b>		
34 71 13 26-0068 EA 4" x 9" Spacer Block For Timber Guide Rails .....	18.20	1.77
34 71 13 26-0069 EA 6" x 8" Spacer Block For Timber Guide Rails .....	21.03	1.77
34 71 13 26-0070 EA 8" x 8" Spacer Block For Timber Guide Rails .....	24.63	1.77
<b>34 71 13 26-0071 Weathering Steel Backup Plates For Timber Guide Rails (34 71 13 26-0056)</b>		
34 71 13 26-0072 LF 6" High, Weathering Steel Backup Plate For Timber Guide Rails.....	25.81	1.11
<b>34 71 13 26-0073 Weathering Steel Splice And Bearing Plates For Timber Guide Rails (34 71 13 26-0056)</b>		
34 71 13 26-0074 EA Weathering Steel Splice Plate For Timber Guide Rails .....	176.79	15.48
34 71 13 26-0075 EA Weathering Steel Bearing Termination Plate For Timber Guide Rails.....	110.41	11.06
<b>34 71 13 26-0076 Cable Guide Rail (34 71 13 26)</b>		
<b>34 71 13 26-0077 Cable Guide Rail (34 71 13 26-0076)</b>		
34 71 13 26-0078 LF Cable (Each Cable) .....	10.00	2.39
Note: Includes tensioning. Excludes splices.		
34 71 13 26-0079 EA Cable Splice With Wedges .....	262.06	16.59
<b>34 71 13 26-0080 Cable Guide Rail Posts (34 71 13 26-0076)</b>		
Note: Includes hardware for cable mounting.		
34 71 13 26-0081 EA Standard Post for Cable Guide Rail .....	190.37	52.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
34 71 13 26-0082 EA Standard Post (Rustic) for Cable Guide Rail .....	198.37	52.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
34 71 13 26-0083 EA Extra Long Post for Cable Guide Rail .....	198.37	52.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
34 71 13 26-0084 EA Extra Long Post (Rustic) for Cable Guide Rail.....	206.36	52.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
34 71 13 26-0085 EA Slip Impact Post Top for Anchor Unit.....	124.13	21.12
34 71 13 26-0086 EA Slip Impact Post Base and Keeper Plate .....	324.08	21.12
Note: For anchor unit.		
<b>34 71 13 26-0087 Cable Guide Rail Accessories For Breakaway Anchor Angle Systems (34 71 13 26-0076)</b>		
34 71 13 26-0088 EA Turnbuckle Cable End Assembly For Use With Breakaway Anchors .....	567.43	221.63
34 71 13 26-0089 EA Turnbuckle Cable End Assembly.....	174.73	11.08
34 71 13 26-0090 EA Spring Cable End Assembly (Compensating Device) For Use With Breakaway Anchors .....	567.19	5.50
34 71 13 26-0091 EA Spring Cable End Assembly (Compensating Device) Without Turnbuckle .....	583.19	5.50
34 71 13 26-0092 EA Breakaway Anchor Angle .....	222.72	11.08
34 71 13 26-0093 EA Standard End Post Cap Assembly.....	103.31	5.50

<b>34</b>	<b>Transportation</b>
<b>34 70</b>	<b>Transportation Construction and Equipment</b>
<b>34 71</b>	<b>Roadway Construction</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0094 EA Driveway End Post Cap Assembly .....	87.32	5.50
34 71 13 26-0095 EA End Post Ground Support Plates .....	47.33	5.50
34 71 13 26-0096 EA 11" Stud Bolt, Cable Guide Rail .....	41.33	5.50
34 71 13 26-0097 EA 18" Stud Bolt, Cable Guide Rail .....	49.33	5.50
34 71 13 26-0098 EA 25" Stud Bolt, Cable Guide Rail .....	57.33	5.50
34 71 13 26-0099 EA 1-1/4" Diameter Turnbuckle, Cable Guide Rail .....	494.64	11.08
34 71 13 26-0100 EA 1-1/2" Diameter Turnbuckle, Cable Guide Rail .....	526.64	11.08
34 71 13 26-0101 EA 5/8" Diameter Turnbuckle With 12" Take-up And Shackle Ends, Cable Guide Rail.....	350.68	11.08
34 71 13 26-0102 EA 5/8" Eye Bolt 18" Long, Cable Guide Rail .....	215.29	5.50
34 71 13 26-0103 EA 3/4" Eye Bolt 8'-6" Long, Cable Guide Rail .....	222.72	11.08
34 71 13 26-0104 EA 1-5/8" Anchor Rod 10' Long With Plate, Cable Guide Rail .....	238.06	16.59
<b>34 71 13 26-0105 Cable Guide Rail Accessories For Slip Impact Post Systems (34 71 13 26-0076)</b>		
34 71 13 26-0106 EA Turnbuckle Cable End Assembly .....	399.41	17.63
Note: For use with slip impact post.		
34 71 13 26-0107 EA Spring Cable End Assembly (Compensating Device) .....	783.31	17.63
Note: For use with slip impact post.		
34 71 13 26-0108 EA Anchor Angle For Slip Impact Post System .....	231.46	17.63
34 71 13 26-0109 EA Cable End Assembly Rod .....	191.47	17.63
Note: Includes cable end, threaded rod and keeper to anchor angle.		
<b>34 71 13 26-0110 Cable Guide Rail Repair For Existing Guide Rail (34 71 13 26-0076)</b>		
Note: Includes associated hardware.		
34 71 13 26-0111 LF Retention Existing Cable (Each Cable) .....	1.48	
34 71 13 26-0112 LF Removal And Storage Of Cable Guide Railing .....	8.91	
34 71 13 26-0113 EA Install Stored Post For Cable Guide Railing .....	70.40	
34 71 13 26-0114 LF Install Stored Cable, (Each Cable) .....	3.94	
Note: Includes retensioning. Excludes splices.		
<b>34 71 13 26-0115 6" x 6" Box Beam Guide Rail (34 71 13 26)</b>		
<b>34 71 13 26-0116 Box Beam Guide Rail, 6" x 6" (34 71 13 26-0115)</b>		
<b>34 71 13 26-0117 Straight Sections, Box Beam Guide Rail (34 71 13 26-0116)</b>		
34 71 13 26-0118 LF Box Beam Guide Railing 6" x 6" x 3/16" Galvanized .....	53.68	2.78
Note: Excludes splices.		
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0119 LF Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) .....	61.00	2.78
Note: Excludes splices.		
For Flush Mounting Directly To Structure, Add	1.83	
<b>34 71 13 26-0120 Shop Curved, Box Beam Guide Rail (34 71 13 26-0116)</b>		
34 71 13 26-0121 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" Galvanized .....	81.72	2.78
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
34 71 13 26-0122 LF Shop Curved Box Beam Guide Railing 6" x 6" x 3/16" (Rustic) .....	89.03	2.78
Note: Excludes splices.		
For Shop Curved At <20' Radius, Add	2.44	
For Flush Mounting Directly To Structure, Add	1.83	
<b>34 71 13 26-0123 Box Beam Guide Rail End Treatment Sections (34 71 13 26-0115)</b>		
Note: Includes rail, end cover plate and hardware only. Excludes posts and splice.		
34 71 13 26-0124 EA Box Beam End Piece Guide Railing Section .....	844.03	33.18
Note: Galvanized excludes splices.		
34 71 13 26-0125 EA Box Beam End Piece Guide Railing Section (Rustic) .....	932.01	33.18
Note: Excludes splices.		
34 71 13 26-0126 EA Box Beam Guide Railing End Treatment Section At Driveway, Galvanized .....	796.04	33.18
Note: Excludes splices.		
34 71 13 26-0127 EA Box Beam Guide Railing End Treatment Section At Driveway, (Rustic) .....	828.03	33.18
Note: Excludes splices.		
<b>34 71 13 26-0128 Splices For Box Beam Guide Rail (34 71 13 26-0115)</b>		
34 71 13 26-0129 EA Splice For Box Beam Guide Rail .....	218.47	49.25
34 71 13 26-0130 EA Splice For Box Beam Guide Rail (Rustic) .....	274.45	49.25
<b>34 71 13 26-0131 Box Beam Guide Rail Posts (34 71 13 26-0115)</b>		
Note: Includes hardware for box beam mounting.		
34 71 13 26-0132 EA Standard Post For Box Beam Guide Rail .....	198.37	52.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
34 71 13 26-0133 EA Standard Post (Rustic) For Box Beam Guide Railing .....	206.36	52.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0134 EA Extra Long Post For Box Beam Guide Rail..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	214.36 -5.00 14.08	52.79
34 71 13 26-0135 EA Extra Long Post (Rustic) For Box Beam Guide Rail ..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	222.36 -5.00 14.08	52.79
34 71 13 26-0136 EA Type I End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	190.37 -5.00 14.08	52.79
34 71 13 26-0137 EA Type I End Assembly Post (Rustic) ..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	198.37 -5.00 14.08	52.79
34 71 13 26-0138 EA Type II End Assembly Post..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	182.37 -5.00 14.08	52.79
34 71 13 26-0139 EA Type II End Assembly Post (Rustic) ..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	190.37 -5.00 14.08	52.79
<b>34 71 13 26-0140 Box Beam Guide Rail Accessories (34 71 13 26-0115)</b>		
34 71 13 26-0141 EA Box Beam Guide Rail End Cover Plate .....	109.24	9.95
34 71 13 26-0142 EA Box Beam Guide Rail End Cover Plate (Rustic).....	117.24	9.95
<b>34 71 13 26-0143 Box Beam Guide Railing Repair, And Resetting (34 71 13 26-0115)</b>		
<i>Note: For existing guide rail.</i>		
34 71 13 26-0144 LF Removal And Storage Of Box Beam Guide Rail And Post .....	4.37	
34 71 13 26-0145 LF Reset Box Beam Guide Rail .....	12.76	
<b>34 71 13 26-0146 6" x 8" Box Beam Median Barrier (34 71 13 26)</b>		
<b>34 71 13 26-0147 Box Beam Median Barrier, 6" x 8" (34 71 13 26-0146)</b>		
<b>34 71 13 26-0148 Straight Sections, Box Beam Median Barrier (34 71 13 26-0147)</b>		
34 71 13 26-0149 LF Box Beam Median Barrier Galvanized Excludes Splices..... <i>For Flush Mounting Directly To Structure, Add</i>	90.06 1.83	9.95
34 71 13 26-0150 LF Box Beam Median Barrier (Rustic) Excludes Splices ..... <i>For Flush Mounting Directly To Structure, Add</i>	97.37 1.83	9.95
<b>34 71 13 26-0151 Shop Curved, Box Beam Median Barrier (34 71 13 26-0147)</b>		
34 71 13 26-0152 LF Shop Curved Box Beam Median Barrier Galvanized..... <i>Note: Excludes splices.</i> <i>For Shop Curved At &lt;20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	109.28 2.44 1.83	9.95
34 71 13 26-0153 LF Shop Curved Box Beam Median Barrier Rustic..... <i>Note: Excludes splices.</i> <i>For Shop Curved At &lt;20' Radius, Add</i> <i>For Flush Mounting Directly To Structure, Add</i>	133.28 2.44 1.83	9.95
<b>34 71 13 26-0154 Box Beam Median Barrier End Treatment Sections (34 71 13 26-0146)</b>		
<i>Note: Includes rail, end cover plate and hardware. Excludes posts.</i>		
34 71 13 26-0155 EA Box Beam Median Barrier Type A End Treatment Section, Galvanized..... <i>Note: Excludes splices and post.</i>	2,755.53	33.18
34 71 13 26-0156 EA Box Beam Median Barrier Type A End Treatment Section (Rustic)..... <i>Note: Excludes splices and post.</i>	2,819.51	33.18
34 71 13 26-0157 EA Box Beam Median Barrier Type B End Treatment Section, Galvanized..... <i>Note: Excludes splices and post.</i>	2,755.53	33.18
34 71 13 26-0158 EA Box Beam Median Barrier Type B End Treatment Section (Rustic)..... <i>Note: Excludes splices and post.</i>	2,819.51	33.18
<b>34 71 13 26-0159 Splices For Box Beam Median Barrier (34 71 13 26-0146)</b>		
34 71 13 26-0160 EA Splice for Box Beam Median Barrier.....	211.34	26.54
34 71 13 26-0161 EA Splice for Box Beam Median Barrier (Rustic) .....	331.31	26.54
<b>34 71 13 26-0162 Box Beam Median Barrier Posts Driven With Soil Plate (34 71 13 26-0146)</b>		
<i>Note: Includes all associated hardware.</i>		
34 71 13 26-0163 EA Standard Post for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	198.37 -5.00 14.08	52.79
34 71 13 26-0164 EA Standard Post (Rustic) for Box Beam Median Barrier..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	206.36 -5.00 14.08	52.79
34 71 13 26-0165 EA Extra Long Post for Box Beam Median Barrier ..... <i>For Installation Without Soil Plate, Deduct</i> <i>For Installation In Rock, Add</i>	214.36 -5.00 14.08	52.79

**34 Transportation****34 70 Transportation Construction and Equipment****34 71 Roadway Construction**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
34 71 13 26-0166 EA Extra Long Post (Rustic) for Box Beam Median Barrier .....222.36		52.79
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
34 71 13 26-0167 EA Type B End Treatment or Rub Back Anchor Post for Box Beam .....182.37		52.79
Note: For median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
34 71 13 26-0168 EA Type B End Treatment or Rub Back Anchor Post (Rustic) .....182.37		52.79
Note: For box beam median barrier.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
34 71 13 26-0169 EA Type I End Assembly Post for Box Beam Median Barrier to Concrete .....214.36		52.79
Note: For median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
34 71 13 26-0170 EA Type I End Assembly Post (Rustic) for Box Beam Median Barrier .....222.36		52.79
Note: For Concrete median barrier transition.		
For Installation Without Soil Plate, Deduct	-5.00	
For Installation In Rock, Add	14.08	
<b>34 71 13 26-0171 Box Beam Median Barrier Accessories (34 71 13 26-0146)</b>		
34 71 13 26-0172 EA Box Beam Median Barrier End Cover Plate .....135.36		23.35
34 71 13 26-0173 EA Box Beam Median Barrier End Cover Plate (Rustic).....143.36		23.35
<b>34 71 13 26-0174 Box Beam Median Barrier Repair, And Resetting (34 71 13 26-0146)</b>		
Note: For existing guide rail.		
34 71 13 26-0175 LF Removal And Storage Of Box Beam Median Barrier and Posts .....4.52		
34 71 13 26-0176 LF Reset Box Beam Median Barrier .....13.36		
<b>34 71 13 26-0177 Universal Guide Rail Items (34 71 13 26)</b>		
<b>34 71 13 26-0178 Guide Rail Concrete Anchor Units For All Types Of Guide Rail (34 71 13 26-0177)</b>		
Note: For cast in place or precast. Includes excavation, formwork, concrete, reinforcement, anchor rods and/or imbedded plate. Excludes anchor angle. For anchor angles and other terminal connections, use accessories section for respective guide rail type.		
34 71 13 26-0179 CY Guide Rail Concrete Anchor Unit.....778.93		
For Each Additional Set Of Anchor Rods, Add	38.00	
34 71 13 26-0180 EA Reset Existing Anchorage Unit for All Types of Guide Rail.....507.35		
Note: Includes excavation and backfill.		
34 71 13 26-0181 EA Removal Of Guide Rail Concrete Anchor Unit.....578.74		
<b>34 71 13 26-0182 Guide Rail Repair For All Types Of Existing Guide Rail (34 71 13 26-0177)</b>		
Note: Includes associated hardware.		
34 71 13 26-0183 EA Straighten And Reset Driven Post For Guide Rail .....70.40		
34 71 13 26-0184 EA Straighten And Reset Post Mounted On Concrete For Guide Rail .....81.92		
Note: With base plate for guide rail. Includes new anchor bolts.		
<b>34 71 13 26-0185 Additional Wood and Steel Posts (34 71 13 26-0177)</b>		
34 71 13 26-0186 LF 4" x 6" Wood Post .....61.50		17.64
For Installation In Rock, Add	4.70	
34 71 13 26-0187 LF 6" x 8" Wood Post .....73.49		17.64
For Installation In Rock, Add	4.70	
34 71 13 26-0188 LF 6" x 7/8" Galvanized Steel Post .....46.17		17.64
For Installation In Rock, Add	4.70	
34 71 13 26-0189 EA Base Plate With Anchor Bolts For Mounting Post On Concrete.....427.61		17.63
<b>34 71 13 26-0190 Accessories For All Types of Guide Rail (34 71 13 26-0177)</b>		
34 71 13 26-0191 EA Reflector For Guard Rail .....51.70		
<b>34 71 13 26-0192 Guide Rail Transitions (34 71 13 26)</b>		
<b>34 71 13 26-0193 Transition Box Beam Guide Rail To Corrugated Beam (34 71 13 26-0192)</b>		
34 71 13 26-0194 EA Box Beam To Corrugated Beam Rail Bolted Section.....775.37		
34 71 13 26-0195 EA Box Beam To Corrugated Beam Rail Bolted Plate .....455.46		
Note: For making cable connections.		
<b>34 71 13 26-0196 Transition Box Beam Median Barrier To Corrugated Beam Median (34 71 13 26-0192)</b>		
34 71 13 26-0197 EA Box Beam Median Barrier To Corrugated Beam Bolted Section .....791.37		
34 71 13 26-0198 EA Box Beam Median Barrier To Corrugated Beam Harness Plate .....455.46		
Note: For making cable connections.		
<b>34 71 13 26-0199 Transition Box Beam Guide Rail To Cable Guide Rail (34 71 13 26-0192)</b>		
34 71 13 26-0200 EA Box Beam to Cable Guide Rail U-bolt And Plate .....109.53		17.69



<b>Transportation</b>	<b>34</b>	<b>34</b>
<b>Transportation Construction and Equipment</b>	<b>34 70</b>	
<b>Roadway Construction</b>	<b>34 71</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>34 71 13 26-0201 Transition Box Beam Median Barrier To Concrete Median Barrier</b> <small>(34 71 13 26-0192)</small>		
34 71 13 26-0202 EA Box Beam Median Barrier To Concrete Barrier End Connection .....	1,095.29	
<b>34 71 13 26-0203 Transition Thrie Beam To Concrete Median Barrier</b> <small>(34 71 13 26-0192)</small>		
34 71 13 26-0204 EA Thrie Beam Terminal Connector At Concrete Median Barrier .....	695.40	
34 71 13 26-0205 EA Thrie Beam Transition Section To Corrugated Beam Guide Rail.....	895.34	
<b>34 71 13 26-0206 Resilient Guard Fence And Light Shield</b> <small>(34 71 13 26)</small>		
34 71 13 26-0207 LF Resilient Guard Fence And Light Shield, Up To 6' High .....	90.08	6.76
<b>34 71 13 26-0208 Individual Concrete Guard Rail Posts</b> <small>(34 71 13 26)</small>		
34 71 13 26-0209 EA 6'-5" Concrete Guard Rail Posts, Round .....	112.17	6.76
34 71 13 26-0210 EA 6'-5" Concrete Posts, Square.....	125.24	7.61
34 71 13 26-0211 EA 6'-5" Concrete Posts, Triangular.....	121.55	7.61
<b>34 71 16 Impact Attenuating Devices</b> <small>(34 71)</small>		
<b>34 71 16 00-0001 Guard Rail Energy Absorbing Terminals</b> <small>(34 71 16)</small>		
Note: Crushable foam cartridges surrounded by steel guardrail for narrow hazards. QuadGuard System as manufactured by Energy Absorption Systems, Inc.		
<b>34 71 16 00-0002 24" Wide Guard Rail Energy Absorbing Terminals</b> <small>(34 71 16 00-0001)</small>		
34 71 16 00-0003 EA 24" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator .....	35,653.28	3,495.73
34 71 16 00-0004 EA 24" Wide, 5 Cartridge, Bays Energy Absorbing Crash Attenuator .....	49,555.83	4,660.97
34 71 16 00-0005 EA 24" Wide, 7 Cartridge, Bays Energy Absorbing Crash Attenuator .....	67,682.60	6,117.52
34 71 16 00-0006 EA 24" Wide, 9 Cartridge, Bays Energy Absorbing Crash Attenuator .....	75,070.07	7,574.08
<b>34 71 16 00-0007 30" Wide Guard Rail Energy Absorbing Terminals</b> <small>(34 71 16 00-0001)</small>		
34 71 16 00-0008 EA 30" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator .....	38,356.85	3,932.69
34 71 16 00-0009 EA 30" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator .....	53,479.92	5,243.59
34 71 16 00-0010 EA 30" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator .....	73,440.88	6,991.46
34 71 16 00-0011 EA 30" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator .....	84,016.23	8,448.00
<b>34 71 16 00-0012 36" Wide Guard Rail Energy Absorbing Terminals</b> <small>(34 71 16 00-0001)</small>		
34 71 16 00-0013 EA 36" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator .....	41,092.60	4,369.66
34 71 16 00-0014 EA 36" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator .....	57,435.46	5,826.21
34 71 16 00-0015 EA 36" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator .....	78,586.00	7,719.73
34 71 16 00-0016 EA 36" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator .....	92,929.27	9,321.93
<b>34 71 16 00-0017 69" Wide Guard Rail Energy Absorbing Terminals</b> <small>(34 71 16 00-0001)</small>		
34 71 16 00-0018 EA 69" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator .....	44,482.22	4,806.62
34 71 16 00-0019 EA 69" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator .....	61,645.91	6,408.83
34 71 16 00-0020 EA 69" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator .....	84,749.19	8,448.00
34 71 16 00-0021 EA 69" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator .....	99,737.73	10,195.86
<b>34 71 16 00-0022 90" Wide Guard Rail Energy Absorbing Terminals</b> <small>(34 71 16 00-0001)</small>		
34 71 16 00-0023 EA 90" Wide, 3 Cartridge Bays, Energy Absorbing Crash Attenuator .....	47,966.76	5,243.59
34 71 16 00-0024 EA 90" Wide, 5 Cartridge Bays, Energy Absorbing Crash Attenuator .....	65,967.83	6,991.46
34 71 16 00-0025 EA 90" Wide, 7 Cartridge Bays, Energy Absorbing Crash Attenuator .....	91,718.28	9,321.93
34 71 16 00-0026 EA 90" Wide, 9 Cartridge Bays, Energy Absorbing Crash Attenuator .....	106,741.80	11,069.79
<b>34 71 19 Vehicle Delineators</b> <small>(34 71)</small>		
<b>34 71 19 16 Flexible Vehicle Delineators</b> <small>(34 71 19)</small>		
34 71 19 16-0001 EA 2' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	92.42	8.45
34 71 19 16-0002 EA 3' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	93.76	8.45
34 71 19 16-0003 EA 3-1/2' High, 3" Diameter Flexible Fixed Stanchion Delineator .....	95.11	8.45
34 71 19 16-0004 EA 4' High, 3" Diameter Flexible Fixed Stanchion Delineator.....	96.45	8.45

**END OF SECTION 34**

<b>34</b>	<b>34</b>	<b>Transportation</b>
	<b>34 70</b>	<b>Transportation Construction and Equipment</b>
	<b>34 71</b>	<b>Roadway Construction</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 35 Waterway and Marine Construction

### 35 01 Operation and Maintenance of Waterway and Marine Construction <sup>(35)</sup>

#### 35 01 70 Operation and Maintenance of Dams <sup>(35 01)</sup>

35 01 70 00-0001	Drilling And Pressure Grouting <sup>(35 01 70)</sup>		
35 01 70 00-0002	From Top Of The Dam <sup>(35 01 70 00-0001)</sup>		
35 01 70 00-0003	LF Pressure Grout, Top Of Dam, In Concrete, Drill 3" Nominal Grout Hole.....	114.77	
35 01 70 00-0004	LF Pressure Grout, Top Of Dam, In Rock, Drill 3" Nominal Grout Hole .....	132.64	
35 01 70 00-0005	LF Pressure Grout, Install Guide Sleeves 3-1/2" Inside Diameter, Top Of Dam.....	139.94	
35 01 70 00-0006	EA Pressure Grout, Hydraulic Pressure Test Top Of Dam.....	867.83	
35 01 70 00-0007	EA Pressure Grout, Grout Hook-Up Top Of Dam.....	466.02	
35 01 70 00-0008	CWT Pressure Grout, Portland Cement Top Of Dam .....	70.16	
35 01 70 00-0009	CWT Pressure Grout, Fluidifier In Grout Top Of Dam.....	207.21	
35 01 70 00-0010	CF Pressure Grout, Place Grout Except Hook-Ups, Top Of Dam .....	193.00	
35 01 70 00-0011	Large Diameter Holes - Rotary Drilled <sup>(35 01 70 00-0001)</sup>		
35 01 70 00-0012	From Top Of The Dam <sup>(35 01 70 00-0011)</sup>		
35 01 70 00-0013	LF Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Vertical.....	170.80	
35 01 70 00-0014	LF Pressure Grout, Rotary Drilled Top Of Dam, 6" Nominal Diameter, Inclined .....	185.63	
35 01 70 00-0015	LF Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Vertical.....	267.85	
35 01 70 00-0016	LF Pressure Grout, Rotary Drilled Top Of Dam, 9" Nominal Diameter, Inclined .....	296.00	

### 35 05 Common Work Results for Waterway and Marine Construction <sup>(35)</sup>

#### 35 05 70 Common Work Results for Dams <sup>(35 05)</sup>

35 05 70 00-0001	Rubber Dam Repair <sup>(35 05 70)</sup>		
35 05 70 00-0002	EA Class A Rubber Dam Repair (Bullet And Similar Holes).....	37.53	
35 05 70 00-0003	SF Class B Rubber Dam Repair (Minor Surface Rubber Damage).....	75.33	
35 05 70 00-0004	SF Class C Rubber Dam Repair (Major Surface Rubber Damage).....	109.86	
35 05 70 00-0005	SF Class D Rubber Dam Repair (Serious Surface Rubber Damage), Per Layer Of Material .....	123.05	

### 35 20 Waterway and Marine Construction and Equipment <sup>(35)</sup>

#### 35 22 Hydraulic Gates <sup>(35 20)</sup>

##### 35 22 26 Sluice Gates <sup>(35 22)</sup>

35 22 26 00-0001	Heavy Duty Cast Iron Sluice Gates Self Contained <sup>(35 22 26)</sup>		
	Note: Includes crank operated geared gate lift, anchor bolts, and grouting.		
35 22 26 00-0002	EA 18" x 18" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	10,425.10	1,262.20
	<i>For Electric Motor Operated Valve, Add</i>	1,102.45	
35 22 26 00-0003	EA 24" x 24" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	14,939.21	1,893.38
	<i>For Electric Motor Operated Valve, Add</i>	1,228.68	
35 22 26 00-0004	EA 30" x 30" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	18,082.28	2,163.86
	<i>For Electric Motor Operated Valve, Add</i>	1,282.77	
35 22 26 00-0005	EA 36" x 36" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	20,612.61	2,366.72
	<i>For Electric Motor Operated Valve, Add</i>	1,323.34	
35 22 26 00-0006	EA 42" x 42" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	23,137.26	2,704.82
	<i>For Electric Motor Operated Valve, Add</i>	1,390.96	
35 22 26 00-0007	EA 48" x 48" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	32,454.68	4,327.71
	<i>For Electric Motor Operated Valve, Add</i>	1,715.54	
35 22 26 00-0008	EA 54" x 54" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	43,214.33	5,409.64
	<i>For Electric Motor Operated Valve, Add</i>	1,931.93	
35 22 26 00-0009	EA 60" x 60" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	50,479.49	7,167.77
	<i>For Electric Motor Operated Valve, Add</i>	2,283.56	
35 22 26 00-0010	EA 66" x 66" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	62,887.32	9,466.87
	<i>For Electric Motor Operated Valve, Add</i>	2,743.37	
35 22 26 00-0011	EA 72" x 72" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	66,102.17	10,819.28
	<i>For Electric Motor Operated Valve, Add</i>	3,013.86	
35 22 26 00-0012	EA 78" x 78" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	74,038.50	10,819.28
	<i>For Electric Motor Operated Valve, Add</i>	3,413.86	
35 22 26 00-0013	EA 84" x 84" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	85,842.66	12,171.69
	<i>For Electric Motor Operated Valve, Add</i>	3,684.34	
35 22 26 00-0014	EA 90" x 90" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	103,174.62	13,991.25
	<i>For Electric Motor Operated Valve, Add</i>	4,048.25	
35 22 26 00-0015	EA 96" x 96" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate.....	116,228.07	14,657.50
	<i>For Electric Motor Operated Valve, Add</i>	4,181.50	

<b>35</b>	<b>Waterway and Marine Construction</b>
<b>35 20</b>	<b>Waterway and Marine Construction and Equipment</b>
<b>35 22</b>	<b>Hydraulic Gates</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 26 00-0016 EA 108" x 108" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate ..... <i>For Electric Motor Operated Valve, Add</i>	143,979.91 4,714.50	17,322.50
35 22 26 00-0017 EA 120" x 120" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate ..... <i>For Electric Motor Operated Valve, Add</i>	177,872.77 5,514.00	21,320.00
35 22 26 00-0018 EA 132" x 132" Heavy Duty Sluice Gates Self Contained With Crank Operated Gate ..... <i>For Electric Motor Operated Valve, Add</i>	216,897.27 6,047.00	23,984.99
<b>35 22 59 Hydraulic Closure Gates (35 22)</b>		
<b>35 22 59 00-0001 Steel Slide Gates Self Contained (35 22 59)</b> Note: Includes anchors and bolts.		
35 22 59 00-0002 EA 12" x 12" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	3,587.49 944.67	473.34
35 22 59 00-0003 EA 18" x 18" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	4,777.15 958.19	540.97
35 22 59 00-0004 EA 24" x 24" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	5,451.43 976.23	631.17
35 22 59 00-0005 EA 30" x 30" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	6,587.30 1,001.47	757.35
35 22 59 00-0006 EA 36" x 36" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	8,428.88 1,039.34	946.69
35 22 59 00-0007 EA 42" x 42" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	9,886.43 1,102.45	1,262.20
35 22 59 00-0008 EA 48" x 48" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	13,561.51 1,228.68	1,893.38
35 22 59 00-0009 EA 54" x 54" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	20,563.98 1,323.34	2,366.72
35 22 59 00-0010 EA 60" x 60" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	26,857.02 1,607.35	3,786.75
35 22 59 00-0011 EA 72" x 72" Steel Slide Gates Self Contained Including Anchor Bolts And Grouting ..... <i>For Electric Motor Operated Valve, Add</i>	34,295.09 2,112.25	6,311.29
35 22 59 00-0012 SF Over 36 SF Steel Slide Gates Self Contained Including Anchor ..... <i>For Electric Motor Operated Valve, Add</i>	951.14 1,584.89	174.46
<b>35 22 59 00-0013 Stainless Steel, Slide Gates, Frame Assembly Only (35 22 59)</b>		
35 22 59 00-0014 EA 24" x 24" Stainless Steel Slide Gate, Frame Assembly Only .....	18,935.66	618.05
35 22 59 00-0015 EA 30" x 30" Stainless Steel Slide Gate, Frame Assembly Only .....	23,412.91	772.22
35 22 59 00-0016 EA 36" x 36" Stainless Steel Slide Gate, Frame Assembly Only .....	29,858.61	941.28
35 22 59 00-0017 EA 48" x 48" Stainless Steel Slide Gate, Frame Assembly Only .....	45,576.63	1,802.76
35 22 59 00-0018 EA 60" x 60" Stainless Steel Slide Gate, Frame Assembly Only .....	67,155.17	3,934.16
35 22 59 00-0019 EA 72" x 72" Stainless Steel Slide Gate, Frame Assembly Only .....	88,232.38	6,010.11
35 22 59 00-0020 EA 84" x 84" Stainless Steel Slide Gate, Frame Assembly Only .....	133,287.48	7,513.99
35 22 59 00-0021 Day Start Up And Training, Stainless Steel Slide Gate, Frame Assembly .....	3,547.30	
<b>35 22 59 00-0022 Aluminum Flap Gates (35 22 59)</b>		
35 22 59 00-0023 EA 18" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	3,478.86 944.67	473.34
35 22 59 00-0024 EA 20" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	3,870.27 951.42	507.15
35 22 59 00-0025 EA 24" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	4,258.27 958.19	540.97
35 22 59 00-0026 EA 30" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	5,764.43 976.23	631.17
35 22 59 00-0027 EA 36" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	7,144.06 1,001.47	757.35
35 22 59 00-0028 EA 42" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	10,101.58 1,039.34	946.69
35 22 59 00-0029 EA 48" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	12,786.80 1,102.45	1,262.20
35 22 59 00-0030 EA 54" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	16,564.99 1,228.68	1,893.38
35 22 59 00-0031 EA 60" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	21,914.53 1,390.96	2,704.82
35 22 59 00-0032 EA 66" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	28,363.69 1,607.35	3,786.75
35 22 59 00-0033 EA 72" Diameter Aluminum Flap Gates ..... <i>For Electric Motor Operated Valve, Add</i>	35,430.08 1,931.93	5,409.64
<b>35 22 59 00-0034 Stainless Steel Flap Gates (35 22 59)</b>		
35 22 59 00-0035 EA 12" x 12" Stainless Steel Flap Gate ..... <i>For Electric Motor Operated Valve, Add</i>	7,650.27 931.15	405.72
35 22 59 00-0036 EA 18" x 18" Stainless Steel Flap Gate ..... <i>For Electric Motor Operated Valve, Add</i>	9,801.87 944.67	473.34
35 22 59 00-0037 EA 24" x 24" Stainless Steel Flap Gate ..... <i>For Electric Motor Operated Valve, Add</i>	12,634.93 958.19	540.97
35 22 59 00-0038 EA 30" x 30" Stainless Steel Flap Gate ..... <i>For Electric Motor Operated Valve, Add</i>	16,450.29 976.23	631.58
35 22 59 00-0039 EA 36" x 36" Stainless Steel Flap Gate ..... <i>For Electric Motor Operated Valve, Add</i>	24,419.05 1,001.47	757.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0040 EA 48" x 48" Stainless Steel Flap Gate ..... For Electric Motor Operated Valve, Add	35,766.45 1,102.45	1,261.80
35 22 59 00-0041 EA 60" x 60" Stainless Steel Flap Gate ..... For Electric Motor Operated Valve, Add	54,782.46 1,390.96	2,704.82
35 22 59 00-0042 EA 72" x 72" Stainless Steel Flap Gate ..... For Electric Motor Operated Valve, Add	79,394.19 1,931.93	5,409.64
35 22 59 00-0043 EA 84" x 84" Stainless Steel Flap Gate ..... For Electric Motor Operated Valve, Add	114,088.67 3,013.86	10,819.28
<b>35 22 59 00-0044 Cast Iron Flap Gates (35 22 59)</b>		
35 22 59 00-0045 EA 12" x 12" Cast Iron Flap Gate ..... For Electric Motor Operated Valve, Add	13,574.54 951.43	507.15
35 22 59 00-0046 EA 18" x 18" Cast Iron Flap Gate ..... For Electric Motor Operated Valve, Add	19,078.56 968.34	592.35
35 22 59 00-0047 EA 24" x 24" Cast Iron Flap Gate ..... For Electric Motor Operated Valve, Add	24,363.19 985.24	676.21
35 22 59 00-0048 EA 30" x 30" Cast Iron Flap Gate ..... For Electric Motor Operated Valve, Add	34,175.63 1,007.78	788.46
35 22 59 00-0049 EA 36" x 36" Cast Iron Flap Gate ..... For Electric Motor Operated Valve, Add	38,589.26 1,039.34	946.69
35 22 59 00-0050 EA 48" x 48" Cast Iron Flap Gate ..... For Electric Motor Operated Valve, Add	47,940.29 1,165.56	1,578.26
35 22 59 00-0051 EA 60" x 60" Cast Iron Flap Gate ..... For Electric Motor Operated Valve, Add	82,063.53 1,445.06	2,975.30
35 22 59 00-0052 EA 72" x 72" Cast Iron Flap Gate ..... For Electric Motor Operated Valve, Add	130,651.98 2,013.07	5,815.37
35 22 59 00-0053 EA 84" x 84" Cast Iron Flap Gate ..... For Electric Motor Operated Valve, Add	151,543.49 3,122.05	11,360.25
<b>35 22 59 00-0054 Steel Knife Gates Including Handwheel Operator (35 22 59)</b>		
Note: ANSI 150 PSI. for hub, flange, or spigot ends.		
35 22 59 00-0055 EA 6" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	1,899.56 891.77	208.87
35 22 59 00-0056 EA 8" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	2,534.62 898.74	243.63
35 22 59 00-0057 EA 10" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	3,573.80 923.10	365.51
35 22 59 00-0058 EA 12" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	4,480.41 947.47	487.40
35 22 59 00-0059 EA 14" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	5,450.83 954.43	522.16
35 22 59 00-0060 EA 16" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	6,997.40 962.47	562.29
35 22 59 00-0061 EA 18" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	9,218.34 966.96	584.82
35 22 59 00-0062 EA 20" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	11,491.40 982.91	664.63
35 22 59 00-0063 EA 24" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	14,669.88 996.21	731.02
35 22 59 00-0064 EA 30" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	26,516.67 1,044.94	974.65
35 22 59 00-0065 EA 36" Diameter Knife Gates Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	35,364.59 1,142.41	1,462.05
<b>35 22 59 00-0066 Steel Hollow Jet Flow Gate Valve (35 22 59)</b>		
35 22 59 00-0067 EA 6" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	1,707.50 887.87	189.34
35 22 59 00-0068 EA 8" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	2,629.15 894.23	221.12
35 22 59 00-0069 EA 10" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	3,170.49 916.27	331.34
35 22 59 00-0070 EA 12" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	4,045.93 938.33	441.56
35 22 59 00-0071 EA 14" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	6,051.09 944.67	473.34
35 22 59 00-0072 EA 16" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	7,286.20 951.97	509.86
35 22 59 00-0073 EA 18" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	12,181.19 956.04	530.14
35 22 59 00-0074 EA 20" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	15,307.13 970.51	602.50
35 22 59 00-0075 EA 24" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	21,973.59 982.55	662.68
35 22 59 00-0076 EA 30" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	26,931.60 1,026.75	883.80
35 22 59 00-0077 EA 36" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	38,444.87 1,115.03	1,325.36
35 22 59 00-0078 EA 42" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	45,827.36 1,574.65	1,622.90
35 22 59 00-0079 EA 48" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub ..... For Electric Motor Operated Valve, Add	54,336.25 1,628.68	1,893.38

<b>35</b>	<b>Waterway and Marine Construction</b>
<b>35 20</b>	<b>Waterway and Marine Construction and Equipment</b>
<b>35 22</b>	<b>Hydraulic Gates</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
35 22 59 00-0080 EA 54" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub..... <i>For Electric Motor Operated Valve, Add</i>	71,532.71 1,723.34	2,366.72
35 22 59 00-0081 EA 60" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub..... <i>For Electric Motor Operated Valve, Add</i>	79,708.75 1,818.24	2,840.06
35 22 59 00-0082 EA 66" Diameter Jet Flow Gate Valve Including Handwheel Operator For Hub..... <i>For Electric Motor Operated Valve, Add</i>	101,779.15 2,034.98	3,921.99
<b>35 22 59 00-0083 Steel Dish Head Valve (35 22 59)</b>		
35 22 59 00-0084 EA 12" Diameter Dish Head Valve .....	2,213.15	473.34
35 22 59 00-0085 EA 18" Diameter Dish Head Valve .....	3,166.22	540.97
35 22 59 00-0086 EA 20" Diameter Dish Head Valve .....	3,640.37	591.68
35 22 59 00-0087 EA 24" Diameter Dish Head Valve .....	4,276.53	631.17
35 22 59 00-0088 EA 30" Diameter Dish Head Valve .....	6,379.59	757.35
35 22 59 00-0089 EA 36" Diameter Dish Head Valve .....	7,865.85	946.69
35 22 59 00-0090 EA 42" Diameter Dish Head Valve .....	13,123.53	1,262.20
35 22 59 00-0091 EA 48" Diameter Dish Head Valve .....	17,227.15	1,893.38
35 22 59 00-0092 EA 54" Diameter Dish Head Valve .....	24,412.69	2,366.72
35 22 59 00-0093 EA 60" Diameter Dish Head Valve .....	31,556.84	3,786.75
35 22 59 00-0094 EA 66" Diameter Dish Head Valve .....	43,581.93	4,733.44
35 22 59 00-0095 EA 72" Diameter Dish Head Valve .....	53,205.39	6,311.29
<b>35 22 63 Through-Levee Access Gates (35 22)</b>		
<b>35 22 63 00-0001 Cast Iron Canal Gates (35 22 63)</b>		
35 22 63 00-0002 EA 12" Diameter Cast Iron Canal Gates With Fabricated Frame .....	2,536.54	473.34
<i>For Electric Motor Operated Valve, Add</i>	944.67	
35 22 63 00-0003 EA 18" Diameter Cast Iron Canal Gates With Fabricated Frame .....	3,698.44	540.97
<i>For Electric Motor Operated Valve, Add</i>	958.19	
35 22 63 00-0004 EA 20" Diameter Cast Iron Canal Gates With Fabricated Frame .....	4,229.29	591.68
<i>For Electric Motor Operated Valve, Add</i>	968.34	
35 22 63 00-0005 EA 24" Diameter Cast Iron Canal Gates With Fabricated Frame .....	5,046.21	631.17
<i>For Electric Motor Operated Valve, Add</i>	976.23	
35 22 63 00-0006 EA 30" Diameter Cast Iron Canal Gates With Fabricated Frame .....	7,621.83	757.35
<i>For Electric Motor Operated Valve, Add</i>	1,001.47	
35 22 63 00-0007 EA 36" Diameter Cast Iron Canal Gates With Fabricated Frame .....	9,390.90	946.69
<i>For Electric Motor Operated Valve, Add</i>	1,039.34	
35 22 63 00-0008 EA 42" Diameter Cast Iron Canal Gates With Fabricated Frame .....	15,829.96	1,262.20
<i>For Electric Motor Operated Valve, Add</i>	1,102.45	
35 22 63 00-0009 EA 48" Diameter Cast Iron Canal Gates With Fabricated Frame .....	20,659.11	1,893.38
<i>For Electric Motor Operated Valve, Add</i>	1,228.68	
35 22 63 00-0010 EA 54" Diameter Cast Iron Canal Gates With Fabricated Frame .....	29,437.72	2,366.72
<i>For Electric Motor Operated Valve, Add</i>	1,323.34	
35 22 63 00-0011 EA 60" Diameter Cast Iron Canal Gates With Fabricated Frame .....	37,680.92	3,786.75
<i>For Electric Motor Operated Valve, Add</i>	1,607.35	
35 22 63 00-0012 EA 66" Diameter Cast Iron Canal Gates With Fabricated Frame .....	52,293.10	4,733.44
<i>For Electric Motor Operated Valve, Add</i>	1,796.69	
35 22 63 00-0013 EA 72" Diameter Cast Iron Canal Gates With Fabricated Frame .....	61,764.90	5,409.64
<i>For Electric Motor Operated Valve, Add</i>	1,931.93	
<b>35 24 Dredging (35 20)</b>		
<b>35 24 23 Clamshell Dredging (35 24)</b>		
<b>35 24 23 00-0001 Dredging, Barge Mounted (35 24 23)</b>		
See CSI section 01 74 19 00-0039 for hauling material from shore or barge, 31 23 16 33-0019 for loading.		
35 24 23 00-0002 EA Dredge Excavation Mobilization And Demobilization .....	23,310.74	
<i>For Inlet Rivers And Canals, Deduct</i>	-5,827.69	
35 24 23 00-0003 CY Barge Mounted Clamshell Excavation Into Scows, Dumping Up To 10 Miles .....	25.90	
Note: Includes tugboat to move scows or barge.		
35 24 23 00-0004 CY Barge Mounted Dragline Or Clamshell, Hopper Dumped, Pumped 1,000' To Shore.....	23.31	
Note: Includes tugboat to move barge.		
35 24 23 00-0005 CY Hydraulic Dredge Excavation Into Scows, Dumping Up To 10 Miles.....	25.80	
Note: Includes tugboat to move scows or barge.		
35 24 23 00-0006 CY Hydraulic Dredge Excavation, Pumped 1,000' To Shore .....	21.64	
Note: Includes tugboat to move barge.		
<b>35 24 26 Backhoe/Dipper Dredging (35 24)</b>		
<b>35 24 26 00-0001 Dredging, Shoreline Excavators (35 24 26)</b>		
35 24 26 00-0002 CY Back Hoe, 1 CY Bucket, Dredging From Shore .....	15.22	
35 24 26 00-0003 CY Hydraulic Excavator, 2 CY Bucket, Dredging From Shore.....	10.26	

END OF SECTION 35





MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 40 Process Interconnections

### 40 05 Common Work Results For Process Interconnections <sup>(40)</sup>

#### 40 05 19 Ductile Iron Process Pipe <sup>(40 05)</sup>

40 05 19 00-0001	<b>Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Piping</b> <sup>(40 05 19)</sup> <small>Note: C110 Fittings, 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be cement lined in accordance with ANSI/AWWA C104/A21.04. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4062 for bolts, 40 05 19 00-4077 for gaskets.</small>		
40 05 19 00-0002	<b>Flanged End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b>		
40 05 19 00-0003	<b>4" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <sup>(40 05 19 00-0002)</sup>		
40 05 19 00-0004	EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	940.54	281.61
	For Class 52 Rating, Deduct	-56.52	
	For Class 54 Rating, Add	82.20	
	For Class 55 Rating, Add	124.83	
	For Class 56 Rating, Add	166.95	
40 05 19 00-0005	EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,002.98	286.53
	For Class 52 Rating, Deduct	-62.57	
	For Class 54 Rating, Add	90.54	
	For Class 55 Rating, Add	137.27	
	For Class 56 Rating, Add	183.44	
40 05 19 00-0006	EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,065.42	291.46
	For Class 52 Rating, Deduct	-68.62	
	For Class 54 Rating, Add	98.87	
	For Class 55 Rating, Add	149.71	
	For Class 56 Rating, Add	199.92	
40 05 19 00-0007	EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,127.85	296.38
	For Class 52 Rating, Deduct	-74.67	
	For Class 54 Rating, Add	107.21	
	For Class 55 Rating, Add	162.15	
	For Class 56 Rating, Add	216.41	
40 05 19 00-0008	EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,190.30	301.30
	For Class 52 Rating, Deduct	-80.72	
	For Class 54 Rating, Add	115.55	
	For Class 55 Rating, Add	174.59	
	For Class 56 Rating, Add	232.90	
40 05 19 00-0009	EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,252.74	306.23
	For Class 52 Rating, Deduct	-86.76	
	For Class 54 Rating, Add	123.88	
	For Class 55 Rating, Add	187.03	
	For Class 56 Rating, Add	249.39	
40 05 19 00-0010	EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,315.17	311.14
	For Class 52 Rating, Deduct	-92.81	
	For Class 54 Rating, Add	132.22	
	For Class 55 Rating, Add	199.47	
	For Class 56 Rating, Add	265.87	
40 05 19 00-0011	EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,377.62	316.07
	For Class 52 Rating, Deduct	-98.86	
	For Class 54 Rating, Add	140.55	
	For Class 55 Rating, Add	211.91	
	For Class 56 Rating, Add	282.36	
40 05 19 00-0012	EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,440.05	321.00
	For Class 52 Rating, Deduct	-104.91	
	For Class 54 Rating, Add	148.89	
	For Class 55 Rating, Add	224.35	
	For Class 56 Rating, Add	298.85	
40 05 19 00-0013	EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,502.50	325.92
	For Class 52 Rating, Deduct	-110.95	
	For Class 54 Rating, Add	157.23	
	For Class 55 Rating, Add	236.79	
	For Class 56 Rating, Add	315.34	
40 05 19 00-0014	EA 4" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,564.93	330.84
	For Class 52 Rating, Deduct	-117.00	
	For Class 54 Rating, Add	165.56	
	For Class 55 Rating, Add	249.23	
	For Class 56 Rating, Add	331.83	
40 05 19 00-0015	EA 4" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,627.37	335.76
	For Class 52 Rating, Deduct	-123.05	
	For Class 54 Rating, Add	173.90	
	For Class 55 Rating, Add	261.67	
	For Class 56 Rating, Add	348.31	
40 05 19 00-0016	EA 4" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,689.83	340.69
	For Class 52 Rating, Deduct	-129.10	
	For Class 54 Rating, Add	182.24	
	For Class 55 Rating, Add	274.11	
	For Class 56 Rating, Add	364.80	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0017	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,752.26	345.61
		<i>For Class 52 Rating, Deduct</i>	-135.15	
		<i>For Class 54 Rating, Add</i>	190.58	
		<i>For Class 55 Rating, Add</i>	286.55	
		<i>For Class 56 Rating, Add</i>	381.29	
40 05 19 00-0018	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,814.70	350.53
		<i>For Class 52 Rating, Deduct</i>	-141.19	
		<i>For Class 54 Rating, Add</i>	198.91	
		<i>For Class 55 Rating, Add</i>	298.99	
		<i>For Class 56 Rating, Add</i>	397.78	
40 05 19 00-0019	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,877.14	355.46
		<i>For Class 52 Rating, Deduct</i>	-147.24	
		<i>For Class 54 Rating, Add</i>	207.25	
		<i>For Class 55 Rating, Add</i>	311.43	
		<i>For Class 56 Rating, Add</i>	414.27	
40 05 19 00-0020	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,939.58	360.38
		<i>For Class 52 Rating, Deduct</i>	-153.29	
		<i>For Class 54 Rating, Add</i>	215.58	
		<i>For Class 55 Rating, Add</i>	323.87	
		<i>For Class 56 Rating, Add</i>	430.75	
40 05 19 00-0021	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,002.02	365.30
		<i>For Class 52 Rating, Deduct</i>	-159.34	
		<i>For Class 54 Rating, Add</i>	223.92	
		<i>For Class 55 Rating, Add</i>	336.31	
		<i>For Class 56 Rating, Add</i>	447.24	
40 05 19 00-0022	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,064.46	370.22
		<i>For Class 52 Rating, Deduct</i>	-165.39	
		<i>For Class 54 Rating, Add</i>	232.26	
		<i>For Class 55 Rating, Add</i>	348.75	
		<i>For Class 56 Rating, Add</i>	463.73	
40 05 19 00-0023	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,126.90	375.15
		<i>For Class 52 Rating, Deduct</i>	-171.43	
		<i>For Class 54 Rating, Add</i>	240.59	
		<i>For Class 55 Rating, Add</i>	361.19	
		<i>For Class 56 Rating, Add</i>	480.22	
40 05 19 00-0024	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,189.34	380.08
		<i>For Class 52 Rating, Deduct</i>	-177.48	
		<i>For Class 54 Rating, Add</i>	248.93	
		<i>For Class 55 Rating, Add</i>	373.62	
		<i>For Class 56 Rating, Add</i>	496.70	
40 05 19 00-0025	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,251.78	384.99
		<i>For Class 52 Rating, Deduct</i>	-183.53	
		<i>For Class 54 Rating, Add</i>	257.27	
		<i>For Class 55 Rating, Add</i>	386.06	
		<i>For Class 56 Rating, Add</i>	513.19	
40 05 19 00-0026	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,314.21	389.92
		<i>For Class 52 Rating, Deduct</i>	-189.58	
		<i>For Class 54 Rating, Add</i>	265.60	
		<i>For Class 55 Rating, Add</i>	398.50	
		<i>For Class 56 Rating, Add</i>	529.68	
40 05 19 00-0027	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,376.66	394.84
		<i>For Class 52 Rating, Deduct</i>	-195.63	
		<i>For Class 54 Rating, Add</i>	273.94	
		<i>For Class 55 Rating, Add</i>	410.94	
		<i>For Class 56 Rating, Add</i>	546.17	
40 05 19 00-0028	EA	4" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,439.09	399.77
		<i>For Class 52 Rating, Deduct</i>	-201.67	
		<i>For Class 54 Rating, Add</i>	282.28	
		<i>For Class 55 Rating, Add</i>	423.38	
		<i>For Class 56 Rating, Add</i>	562.66	
40 05 19 00-0029	EA	4" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,501.54	404.69
		<i>For Class 52 Rating, Deduct</i>	-207.72	
		<i>For Class 54 Rating, Add</i>	290.61	
		<i>For Class 55 Rating, Add</i>	435.82	
		<i>For Class 56 Rating, Add</i>	579.14	
40 05 19 00-0030	EA	4" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,563.97	409.61
		<i>For Class 52 Rating, Deduct</i>	-213.77	
		<i>For Class 54 Rating, Add</i>	298.95	
		<i>For Class 55 Rating, Add</i>	448.26	
		<i>For Class 56 Rating, Add</i>	595.63	
40 05 19 00-0031	EA	4" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,626.41	414.54
		<i>For Class 52 Rating, Deduct</i>	-219.82	
		<i>For Class 54 Rating, Add</i>	307.29	
		<i>For Class 55 Rating, Add</i>	460.70	
		<i>For Class 56 Rating, Add</i>	612.12	
40 05 19 00-0032	EA	4" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,688.87	419.45
		<i>For Class 52 Rating, Deduct</i>	-225.87	
		<i>For Class 54 Rating, Add</i>	315.62	
		<i>For Class 55 Rating, Add</i>	473.14	
		<i>For Class 56 Rating, Add</i>	628.61	
40 05 19 00-0033	EA	4" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,751.30	424.38
		<i>For Class 52 Rating, Deduct</i>	-231.91	
		<i>For Class 54 Rating, Add</i>	323.96	
		<i>For Class 55 Rating, Add</i>	485.58	
		<i>For Class 56 Rating, Add</i>	645.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0034 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,813.74	429.31
<i>For Class 52 Rating, Deduct</i>	-237.96	
<i>For Class 54 Rating, Add</i>	332.30	
<i>For Class 55 Rating, Add</i>	498.02	
<i>For Class 56 Rating, Add</i>	661.58	
40 05 19 00-0035 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,876.18	434.23
<i>For Class 52 Rating, Deduct</i>	-244.01	
<i>For Class 54 Rating, Add</i>	340.63	
<i>For Class 55 Rating, Add</i>	510.46	
<i>For Class 56 Rating, Add</i>	678.07	
40 05 19 00-0036 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,938.62	439.15
<i>For Class 52 Rating, Deduct</i>	-250.06	
<i>For Class 54 Rating, Add</i>	348.97	
<i>For Class 55 Rating, Add</i>	522.90	
<i>For Class 56 Rating, Add</i>	694.56	
40 05 19 00-0037 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,001.06	444.07
<i>For Class 52 Rating, Deduct</i>	-256.10	
<i>For Class 54 Rating, Add</i>	357.31	
<i>For Class 55 Rating, Add</i>	535.34	
<i>For Class 56 Rating, Add</i>	711.05	
40 05 19 00-0038 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,063.50	449.00
<i>For Class 52 Rating, Deduct</i>	-262.15	
<i>For Class 54 Rating, Add</i>	365.64	
<i>For Class 55 Rating, Add</i>	547.78	
<i>For Class 56 Rating, Add</i>	727.53	
40 05 19 00-0039 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,125.94	453.93
<i>For Class 52 Rating, Deduct</i>	-268.20	
<i>For Class 54 Rating, Add</i>	373.98	
<i>For Class 55 Rating, Add</i>	560.22	
<i>For Class 56 Rating, Add</i>	744.02	
40 05 19 00-0040 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,188.38	458.84
<i>For Class 52 Rating, Deduct</i>	-274.25	
<i>For Class 54 Rating, Add</i>	382.32	
<i>For Class 55 Rating, Add</i>	572.66	
<i>For Class 56 Rating, Add</i>	760.51	
40 05 19 00-0041 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,250.82	463.77
<i>For Class 52 Rating, Deduct</i>	-280.30	
<i>For Class 54 Rating, Add</i>	390.65	
<i>For Class 55 Rating, Add</i>	585.10	
<i>For Class 56 Rating, Add</i>	777.00	
40 05 19 00-0042 EA 4" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,313.26	468.69
<i>For Class 52 Rating, Deduct</i>	-286.34	
<i>For Class 54 Rating, Add</i>	398.99	
<i>For Class 55 Rating, Add</i>	597.54	
<i>For Class 56 Rating, Add</i>	793.49	
<b>40 05 19 00-0043 6" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0044 EA 6" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,190.50	354.47
<i>For Class 52 Rating, Deduct</i>	-71.88	
<i>For Class 54 Rating, Add</i>	104.46	
<i>For Class 55 Rating, Add</i>	158.60	
<i>For Class 56 Rating, Add</i>	212.09	
40 05 19 00-0045 EA 6" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,265.63	359.39
<i>For Class 52 Rating, Deduct</i>	-79.32	
<i>For Class 54 Rating, Add</i>	114.70	
<i>For Class 55 Rating, Add</i>	173.87	
<i>For Class 56 Rating, Add</i>	232.32	
40 05 19 00-0046 EA 6" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,340.76	364.32
<i>For Class 52 Rating, Deduct</i>	-86.76	
<i>For Class 54 Rating, Add</i>	124.94	
<i>For Class 55 Rating, Add</i>	189.14	
<i>For Class 56 Rating, Add</i>	252.56	
40 05 19 00-0047 EA 6" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,415.88	369.25
<i>For Class 52 Rating, Deduct</i>	-94.21	
<i>For Class 54 Rating, Add</i>	135.18	
<i>For Class 55 Rating, Add</i>	204.41	
<i>For Class 56 Rating, Add</i>	272.79	
40 05 19 00-0048 EA 6" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,491.02	374.16
<i>For Class 52 Rating, Deduct</i>	-101.65	
<i>For Class 54 Rating, Add</i>	145.42	
<i>For Class 55 Rating, Add</i>	219.68	
<i>For Class 56 Rating, Add</i>	293.02	
40 05 19 00-0049 EA 6" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,566.15	379.09
<i>For Class 52 Rating, Deduct</i>	-109.09	
<i>For Class 54 Rating, Add</i>	155.66	
<i>For Class 55 Rating, Add</i>	234.95	
<i>For Class 56 Rating, Add</i>	313.25	
40 05 19 00-0050 EA 6" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,641.26	384.01
<i>For Class 52 Rating, Deduct</i>	-116.54	
<i>For Class 54 Rating, Add</i>	165.90	
<i>For Class 55 Rating, Add</i>	250.22	
<i>For Class 56 Rating, Add</i>	333.48	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0051	EA	6" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,716.40	388.94
		<i>For Class 52 Rating, Deduct</i>	-123.98	
		<i>For Class 54 Rating, Add</i>	176.14	
		<i>For Class 55 Rating, Add</i>	265.49	
		<i>For Class 56 Rating, Add</i>	353.71	
40 05 19 00-0052	EA	6" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,791.52	393.85
		<i>For Class 52 Rating, Deduct</i>	-131.42	
		<i>For Class 54 Rating, Add</i>	186.38	
		<i>For Class 55 Rating, Add</i>	280.76	
		<i>For Class 56 Rating, Add</i>	373.94	
40 05 19 00-0053	EA	6" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,866.66	398.78
		<i>For Class 52 Rating, Deduct</i>	-138.87	
		<i>For Class 54 Rating, Add</i>	196.62	
		<i>For Class 55 Rating, Add</i>	296.03	
		<i>For Class 56 Rating, Add</i>	394.17	
40 05 19 00-0054	EA	6" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,941.78	403.71
		<i>For Class 52 Rating, Deduct</i>	-146.31	
		<i>For Class 54 Rating, Add</i>	206.86	
		<i>For Class 55 Rating, Add</i>	311.29	
		<i>For Class 56 Rating, Add</i>	414.40	
40 05 19 00-0055	EA	6" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,016.91	408.63
		<i>For Class 52 Rating, Deduct</i>	-153.76	
		<i>For Class 54 Rating, Add</i>	217.10	
		<i>For Class 55 Rating, Add</i>	326.56	
		<i>For Class 56 Rating, Add</i>	434.63	
40 05 19 00-0056	EA	6" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,092.05	413.55
		<i>For Class 52 Rating, Deduct</i>	-161.20	
		<i>For Class 54 Rating, Add</i>	227.34	
		<i>For Class 55 Rating, Add</i>	341.83	
		<i>For Class 56 Rating, Add</i>	454.87	
40 05 19 00-0057	EA	6" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,167.16	418.47
		<i>For Class 52 Rating, Deduct</i>	-168.64	
		<i>For Class 54 Rating, Add</i>	237.58	
		<i>For Class 55 Rating, Add</i>	357.10	
		<i>For Class 56 Rating, Add</i>	475.09	
40 05 19 00-0058	EA	6" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,242.29	423.40
		<i>For Class 52 Rating, Deduct</i>	-176.09	
		<i>For Class 54 Rating, Add</i>	247.82	
		<i>For Class 55 Rating, Add</i>	372.37	
		<i>For Class 56 Rating, Add</i>	495.32	
40 05 19 00-0059	EA	6" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,317.42	428.32
		<i>For Class 52 Rating, Deduct</i>	-183.53	
		<i>For Class 54 Rating, Add</i>	258.06	
		<i>For Class 55 Rating, Add</i>	387.64	
		<i>For Class 56 Rating, Add</i>	515.56	
40 05 19 00-0060	EA	6" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,392.55	433.24
		<i>For Class 52 Rating, Deduct</i>	-190.97	
		<i>For Class 54 Rating, Add</i>	268.30	
		<i>For Class 55 Rating, Add</i>	402.91	
		<i>For Class 56 Rating, Add</i>	535.79	
40 05 19 00-0061	EA	6" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,467.68	438.17
		<i>For Class 52 Rating, Deduct</i>	-198.42	
		<i>For Class 54 Rating, Add</i>	278.54	
		<i>For Class 55 Rating, Add</i>	418.18	
		<i>For Class 56 Rating, Add</i>	556.02	
40 05 19 00-0062	EA	6" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,542.81	443.09
		<i>For Class 52 Rating, Deduct</i>	-205.86	
		<i>For Class 54 Rating, Add</i>	288.78	
		<i>For Class 55 Rating, Add</i>	433.45	
		<i>For Class 56 Rating, Add</i>	576.25	
40 05 19 00-0063	EA	6" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,617.92	448.01
		<i>For Class 52 Rating, Deduct</i>	-213.30	
		<i>For Class 54 Rating, Add</i>	299.01	
		<i>For Class 55 Rating, Add</i>	448.71	
		<i>For Class 56 Rating, Add</i>	596.48	
40 05 19 00-0064	EA	6" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,693.06	452.94
		<i>For Class 52 Rating, Deduct</i>	-220.75	
		<i>For Class 54 Rating, Add</i>	309.25	
		<i>For Class 55 Rating, Add</i>	463.98	
		<i>For Class 56 Rating, Add</i>	616.71	
40 05 19 00-0065	EA	6" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,768.19	457.86
		<i>For Class 52 Rating, Deduct</i>	-228.19	
		<i>For Class 54 Rating, Add</i>	319.49	
		<i>For Class 55 Rating, Add</i>	479.25	
		<i>For Class 56 Rating, Add</i>	636.94	
40 05 19 00-0066	EA	6" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,843.31	462.79
		<i>For Class 52 Rating, Deduct</i>	-235.63	
		<i>For Class 54 Rating, Add</i>	329.73	
		<i>For Class 55 Rating, Add</i>	494.52	
		<i>For Class 56 Rating, Add</i>	657.17	
40 05 19 00-0067	EA	6" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,918.45	467.70
		<i>For Class 52 Rating, Deduct</i>	-243.08	
		<i>For Class 54 Rating, Add</i>	339.97	
		<i>For Class 55 Rating, Add</i>	509.79	
		<i>For Class 56 Rating, Add</i>	677.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0068 EA 6" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,993.57	472.63
<i>For Class 52 Rating, Deduct</i>	-250.52	
<i>For Class 54 Rating, Add</i>	350.21	
<i>For Class 55 Rating, Add</i>	525.06	
<i>For Class 56 Rating, Add</i>	697.63	
40 05 19 00-0069 EA 6" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,068.71	477.56
<i>For Class 52 Rating, Deduct</i>	-257.97	
<i>For Class 54 Rating, Add</i>	360.45	
<i>For Class 55 Rating, Add</i>	540.33	
<i>For Class 56 Rating, Add</i>	717.86	
40 05 19 00-0070 EA 6" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,143.82	482.47
<i>For Class 52 Rating, Deduct</i>	-265.41	
<i>For Class 54 Rating, Add</i>	370.69	
<i>For Class 55 Rating, Add</i>	555.60	
<i>For Class 56 Rating, Add</i>	738.09	
40 05 19 00-0071 EA 6" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,218.95	487.40
<i>For Class 52 Rating, Deduct</i>	-272.85	
<i>For Class 54 Rating, Add</i>	380.93	
<i>For Class 55 Rating, Add</i>	570.87	
<i>For Class 56 Rating, Add</i>	758.32	
40 05 19 00-0072 EA 6" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,294.09	492.32
<i>For Class 52 Rating, Deduct</i>	-280.30	
<i>For Class 54 Rating, Add</i>	391.17	
<i>For Class 55 Rating, Add</i>	586.14	
<i>For Class 56 Rating, Add</i>	778.56	
40 05 19 00-0073 EA 6" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,369.21	497.25
<i>For Class 52 Rating, Deduct</i>	-287.74	
<i>For Class 54 Rating, Add</i>	401.41	
<i>For Class 55 Rating, Add</i>	601.41	
<i>For Class 56 Rating, Add</i>	798.79	
40 05 19 00-0074 EA 6" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,444.34	502.17
<i>For Class 52 Rating, Deduct</i>	-295.18	
<i>For Class 54 Rating, Add</i>	411.65	
<i>For Class 55 Rating, Add</i>	616.68	
<i>For Class 56 Rating, Add</i>	819.02	
40 05 19 00-0075 EA 6" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,519.47	507.09
<i>For Class 52 Rating, Deduct</i>	-302.63	
<i>For Class 54 Rating, Add</i>	421.89	
<i>For Class 55 Rating, Add</i>	631.95	
<i>For Class 56 Rating, Add</i>	839.25	
40 05 19 00-0076 EA 6" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,594.60	512.02
<i>For Class 52 Rating, Deduct</i>	-310.07	
<i>For Class 54 Rating, Add</i>	432.13	
<i>For Class 55 Rating, Add</i>	647.22	
<i>For Class 56 Rating, Add</i>	859.48	
40 05 19 00-0077 EA 6" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,669.72	516.94
<i>For Class 52 Rating, Deduct</i>	-317.51	
<i>For Class 54 Rating, Add</i>	442.37	
<i>For Class 55 Rating, Add</i>	662.48	
<i>For Class 56 Rating, Add</i>	879.71	
40 05 19 00-0078 EA 6" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,744.85	521.86
<i>For Class 52 Rating, Deduct</i>	-324.96	
<i>For Class 54 Rating, Add</i>	452.61	
<i>For Class 55 Rating, Add</i>	677.75	
<i>For Class 56 Rating, Add</i>	899.94	
40 05 19 00-0079 EA 6" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,819.98	526.79
<i>For Class 52 Rating, Deduct</i>	-332.40	
<i>For Class 54 Rating, Add</i>	462.85	
<i>For Class 55 Rating, Add</i>	693.02	
<i>For Class 56 Rating, Add</i>	920.17	
40 05 19 00-0080 EA 6" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,895.11	531.71
<i>For Class 52 Rating, Deduct</i>	-339.84	
<i>For Class 54 Rating, Add</i>	473.09	
<i>For Class 55 Rating, Add</i>	708.29	
<i>For Class 56 Rating, Add</i>	940.40	
40 05 19 00-0081 EA 6" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,970.24	536.63
<i>For Class 52 Rating, Deduct</i>	-347.29	
<i>For Class 54 Rating, Add</i>	483.33	
<i>For Class 55 Rating, Add</i>	723.56	
<i>For Class 56 Rating, Add</i>	960.63	
40 05 19 00-0082 EA 6" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,045.36	541.55
<i>For Class 52 Rating, Deduct</i>	-354.73	
<i>For Class 54 Rating, Add</i>	493.57	
<i>For Class 55 Rating, Add</i>	738.83	
<i>For Class 56 Rating, Add</i>	980.86	
<b>40 05 19 00-0083 8" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0084 EA 8" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,648.43	452.94
<i>For Class 52 Rating, Deduct</i>	-105.84	
<i>For Class 54 Rating, Add</i>	152.56	
<i>For Class 55 Rating, Add</i>	231.03	
<i>For Class 56 Rating, Add</i>	308.54	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0085	EA	8" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,748.94	457.86
		<i>For Class 52 Rating, Deduct</i>	-116.07	
		<i>For Class 54 Rating, Add</i>	166.61	
		<i>For Class 55 Rating, Add</i>	251.96	
		<i>For Class 56 Rating, Add</i>	336.26	
40 05 19 00-0086	EA	8" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,849.43	462.79
		<i>For Class 52 Rating, Deduct</i>	-126.31	
		<i>For Class 54 Rating, Add</i>	180.65	
		<i>For Class 55 Rating, Add</i>	272.89	
		<i>For Class 56 Rating, Add</i>	363.98	
40 05 19 00-0087	EA	8" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,949.94	467.70
		<i>For Class 52 Rating, Deduct</i>	-136.54	
		<i>For Class 54 Rating, Add</i>	194.70	
		<i>For Class 55 Rating, Add</i>	293.82	
		<i>For Class 56 Rating, Add</i>	391.69	
40 05 19 00-0088	EA	8" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,050.44	472.63
		<i>For Class 52 Rating, Deduct</i>	-146.78	
		<i>For Class 54 Rating, Add</i>	208.74	
		<i>For Class 55 Rating, Add</i>	314.74	
		<i>For Class 56 Rating, Add</i>	419.41	
40 05 19 00-0089	EA	8" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,150.95	477.56
		<i>For Class 52 Rating, Deduct</i>	-157.01	
		<i>For Class 54 Rating, Add</i>	222.79	
		<i>For Class 55 Rating, Add</i>	335.67	
		<i>For Class 56 Rating, Add</i>	447.13	
40 05 19 00-0090	EA	8" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,251.45	482.47
		<i>For Class 52 Rating, Deduct</i>	-167.25	
		<i>For Class 54 Rating, Add</i>	236.84	
		<i>For Class 55 Rating, Add</i>	356.60	
		<i>For Class 56 Rating, Add</i>	474.84	
40 05 19 00-0091	EA	8" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,351.95	487.40
		<i>For Class 52 Rating, Deduct</i>	-177.48	
		<i>For Class 54 Rating, Add</i>	250.88	
		<i>For Class 55 Rating, Add</i>	377.53	
		<i>For Class 56 Rating, Add</i>	502.56	
40 05 19 00-0092	EA	8" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,452.46	492.32
		<i>For Class 52 Rating, Deduct</i>	-187.72	
		<i>For Class 54 Rating, Add</i>	264.93	
		<i>For Class 55 Rating, Add</i>	398.45	
		<i>For Class 56 Rating, Add</i>	530.27	
40 05 19 00-0093	EA	8" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,552.96	497.25
		<i>For Class 52 Rating, Deduct</i>	-197.95	
		<i>For Class 54 Rating, Add</i>	278.97	
		<i>For Class 55 Rating, Add</i>	419.38	
		<i>For Class 56 Rating, Add</i>	557.99	
40 05 19 00-0094	EA	8" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,653.46	502.17
		<i>For Class 52 Rating, Deduct</i>	-208.19	
		<i>For Class 54 Rating, Add</i>	293.02	
		<i>For Class 55 Rating, Add</i>	440.31	
		<i>For Class 56 Rating, Add</i>	585.71	
40 05 19 00-0095	EA	8" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,753.97	507.09
		<i>For Class 52 Rating, Deduct</i>	-218.42	
		<i>For Class 54 Rating, Add</i>	307.07	
		<i>For Class 55 Rating, Add</i>	461.24	
		<i>For Class 56 Rating, Add</i>	613.43	
40 05 19 00-0096	EA	8" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,854.47	512.02
		<i>For Class 52 Rating, Deduct</i>	-228.66	
		<i>For Class 54 Rating, Add</i>	321.11	
		<i>For Class 55 Rating, Add</i>	482.17	
		<i>For Class 56 Rating, Add</i>	641.14	
40 05 19 00-0097	EA	8" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,954.98	516.94
		<i>For Class 52 Rating, Deduct</i>	-238.89	
		<i>For Class 54 Rating, Add</i>	335.16	
		<i>For Class 55 Rating, Add</i>	503.10	
		<i>For Class 56 Rating, Add</i>	668.86	
40 05 19 00-0098	EA	8" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,055.48	521.86
		<i>For Class 52 Rating, Deduct</i>	-249.13	
		<i>For Class 54 Rating, Add</i>	349.21	
		<i>For Class 55 Rating, Add</i>	524.02	
		<i>For Class 56 Rating, Add</i>	696.58	
40 05 19 00-0099	EA	8" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,155.98	526.79
		<i>For Class 52 Rating, Deduct</i>	-259.36	
		<i>For Class 54 Rating, Add</i>	363.25	
		<i>For Class 55 Rating, Add</i>	544.95	
		<i>For Class 56 Rating, Add</i>	724.29	
40 05 19 00-0100	EA	8" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,256.49	531.71
		<i>For Class 52 Rating, Deduct</i>	-269.60	
		<i>For Class 54 Rating, Add</i>	377.30	
		<i>For Class 55 Rating, Add</i>	565.88	
		<i>For Class 56 Rating, Add</i>	752.01	
40 05 19 00-0101	EA	8" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,356.99	536.63
		<i>For Class 52 Rating, Deduct</i>	-279.83	
		<i>For Class 54 Rating, Add</i>	391.34	
		<i>For Class 55 Rating, Add</i>	586.81	
		<i>For Class 56 Rating, Add</i>	779.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0102 EA 8" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,457.49	541.55
<i>For Class 52 Rating, Deduct</i>	-290.07	
<i>For Class 54 Rating, Add</i>	405.39	
<i>For Class 55 Rating, Add</i>	607.73	
<i>For Class 56 Rating, Add</i>	807.44	
40 05 19 00-0103 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,558.00	546.48
<i>For Class 52 Rating, Deduct</i>	-300.30	
<i>For Class 54 Rating, Add</i>	419.44	
<i>For Class 55 Rating, Add</i>	628.66	
<i>For Class 56 Rating, Add</i>	835.16	
40 05 19 00-0104 EA 8" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,658.49	551.40
<i>For Class 52 Rating, Deduct</i>	-310.53	
<i>For Class 54 Rating, Add</i>	433.48	
<i>For Class 55 Rating, Add</i>	649.59	
<i>For Class 56 Rating, Add</i>	862.87	
40 05 19 00-0105 EA 8" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,759.01	556.32
<i>For Class 52 Rating, Deduct</i>	-320.77	
<i>For Class 54 Rating, Add</i>	447.53	
<i>For Class 55 Rating, Add</i>	670.52	
<i>For Class 56 Rating, Add</i>	890.59	
40 05 19 00-0106 EA 8" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,859.51	561.25
<i>For Class 52 Rating, Deduct</i>	-331.00	
<i>For Class 54 Rating, Add</i>	461.57	
<i>For Class 55 Rating, Add</i>	691.45	
<i>For Class 56 Rating, Add</i>	918.31	
40 05 19 00-0107 EA 8" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,960.01	566.17
<i>For Class 52 Rating, Deduct</i>	-341.24	
<i>For Class 54 Rating, Add</i>	475.62	
<i>For Class 55 Rating, Add</i>	712.37	
<i>For Class 56 Rating, Add</i>	946.02	
40 05 19 00-0108 EA 8" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,060.52	571.10
<i>For Class 52 Rating, Deduct</i>	-351.47	
<i>For Class 54 Rating, Add</i>	489.67	
<i>For Class 55 Rating, Add</i>	733.30	
<i>For Class 56 Rating, Add</i>	973.74	
40 05 19 00-0109 EA 8" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,161.02	576.01
<i>For Class 52 Rating, Deduct</i>	-361.71	
<i>For Class 54 Rating, Add</i>	503.71	
<i>For Class 55 Rating, Add</i>	754.23	
<i>For Class 56 Rating, Add</i>	1,001.46	
40 05 19 00-0110 EA 8" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,261.52	580.94
<i>For Class 52 Rating, Deduct</i>	-371.94	
<i>For Class 54 Rating, Add</i>	517.76	
<i>For Class 55 Rating, Add</i>	775.16	
<i>For Class 56 Rating, Add</i>	1,029.17	
40 05 19 00-0111 EA 8" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,362.02	585.87
<i>For Class 52 Rating, Deduct</i>	-382.18	
<i>For Class 54 Rating, Add</i>	531.80	
<i>For Class 55 Rating, Add</i>	796.08	
<i>For Class 56 Rating, Add</i>	1,056.89	
40 05 19 00-0112 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,462.53	590.78
<i>For Class 52 Rating, Deduct</i>	-392.41	
<i>For Class 54 Rating, Add</i>	545.85	
<i>For Class 55 Rating, Add</i>	817.01	
<i>For Class 56 Rating, Add</i>	1,084.61	
40 05 19 00-0113 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,563.03	595.71
<i>For Class 52 Rating, Deduct</i>	-402.65	
<i>For Class 54 Rating, Add</i>	559.90	
<i>For Class 55 Rating, Add</i>	837.94	
<i>For Class 56 Rating, Add</i>	1,112.32	
40 05 19 00-0114 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,663.54	600.63
<i>For Class 52 Rating, Deduct</i>	-412.88	
<i>For Class 54 Rating, Add</i>	573.94	
<i>For Class 55 Rating, Add</i>	858.87	
<i>For Class 56 Rating, Add</i>	1,140.04	
40 05 19 00-0115 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,764.04	605.56
<i>For Class 52 Rating, Deduct</i>	-423.12	
<i>For Class 54 Rating, Add</i>	587.99	
<i>For Class 55 Rating, Add</i>	879.80	
<i>For Class 56 Rating, Add</i>	1,167.76	
40 05 19 00-0116 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,864.54	610.48
<i>For Class 52 Rating, Deduct</i>	-433.35	
<i>For Class 54 Rating, Add</i>	602.04	
<i>For Class 55 Rating, Add</i>	900.72	
<i>For Class 56 Rating, Add</i>	1,195.47	
40 05 19 00-0117 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,965.05	615.40
<i>For Class 52 Rating, Deduct</i>	-443.59	
<i>For Class 54 Rating, Add</i>	616.08	
<i>For Class 55 Rating, Add</i>	921.65	
<i>For Class 56 Rating, Add</i>	1,223.19	
40 05 19 00-0118 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,065.55	620.33
<i>For Class 52 Rating, Deduct</i>	-453.82	
<i>For Class 54 Rating, Add</i>	630.13	
<i>For Class 55 Rating, Add</i>	942.58	
<i>For Class 56 Rating, Add</i>	1,250.91	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0119	EA		8" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,166.06	625.25
			<i>For Class 52 Rating, Deduct</i>	-464.06	
			<i>For Class 54 Rating, Add</i>	644.17	
			<i>For Class 55 Rating, Add</i>	963.51	
			<i>For Class 56 Rating, Add</i>	1,278.62	
40 05 19 00-0120	EA		8" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,266.55	630.17
			<i>For Class 52 Rating, Deduct</i>	-474.29	
			<i>For Class 54 Rating, Add</i>	658.22	
			<i>For Class 55 Rating, Add</i>	984.44	
			<i>For Class 56 Rating, Add</i>	1,306.34	
40 05 19 00-0121	EA		8" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,367.07	635.10
			<i>For Class 52 Rating, Deduct</i>	-484.53	
			<i>For Class 54 Rating, Add</i>	672.27	
			<i>For Class 55 Rating, Add</i>	1,005.36	
			<i>For Class 56 Rating, Add</i>	1,334.06	
40 05 19 00-0122	EA		8" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,467.57	640.02
			<i>For Class 52 Rating, Deduct</i>	-494.76	
			<i>For Class 54 Rating, Add</i>	686.31	
			<i>For Class 55 Rating, Add</i>	1,026.29	
			<i>For Class 56 Rating, Add</i>	1,361.77	
<b>40 05 19 00-0123 10" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b>					
			<small>(40 05 19 00-0002)</small>		
40 05 19 00-0124	EA		10" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,070.40	551.40
			<i>For Class 52 Rating, Deduct</i>	-135.84	
			<i>For Class 54 Rating, Add</i>	195.27	
			<i>For Class 55 Rating, Add</i>	295.44	
			<i>For Class 56 Rating, Add</i>	394.39	
40 05 19 00-0125	EA		10" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,200.52	556.32
			<i>For Class 52 Rating, Deduct</i>	-149.34	
			<i>For Class 54 Rating, Add</i>	213.76	
			<i>For Class 55 Rating, Add</i>	322.97	
			<i>For Class 56 Rating, Add</i>	430.84	
40 05 19 00-0126	EA		10" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,330.63	561.25
			<i>For Class 52 Rating, Deduct</i>	-162.83	
			<i>For Class 54 Rating, Add</i>	232.24	
			<i>For Class 55 Rating, Add</i>	350.50	
			<i>For Class 56 Rating, Add</i>	467.29	
40 05 19 00-0127	EA		10" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,460.73	566.17
			<i>For Class 52 Rating, Deduct</i>	-176.32	
			<i>For Class 54 Rating, Add</i>	250.73	
			<i>For Class 55 Rating, Add</i>	378.03	
			<i>For Class 56 Rating, Add</i>	503.74	
40 05 19 00-0128	EA		10" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,590.85	571.10
			<i>For Class 52 Rating, Deduct</i>	-189.81	
			<i>For Class 54 Rating, Add</i>	269.22	
			<i>For Class 55 Rating, Add</i>	405.56	
			<i>For Class 56 Rating, Add</i>	540.19	
40 05 19 00-0129	EA		10" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,720.95	576.01
			<i>For Class 52 Rating, Deduct</i>	-203.30	
			<i>For Class 54 Rating, Add</i>	287.70	
			<i>For Class 55 Rating, Add</i>	433.09	
			<i>For Class 56 Rating, Add</i>	576.64	
40 05 19 00-0130	EA		10" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,851.05	580.94
			<i>For Class 52 Rating, Deduct</i>	-216.79	
			<i>For Class 54 Rating, Add</i>	306.19	
			<i>For Class 55 Rating, Add</i>	460.62	
			<i>For Class 56 Rating, Add</i>	613.09	
40 05 19 00-0131	EA		10" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,981.16	585.87
			<i>For Class 52 Rating, Deduct</i>	-230.28	
			<i>For Class 54 Rating, Add</i>	324.68	
			<i>For Class 55 Rating, Add</i>	488.15	
			<i>For Class 56 Rating, Add</i>	649.54	
40 05 19 00-0132	EA		10" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,111.27	590.78
			<i>For Class 52 Rating, Deduct</i>	-243.78	
			<i>For Class 54 Rating, Add</i>	343.16	
			<i>For Class 55 Rating, Add</i>	515.68	
			<i>For Class 56 Rating, Add</i>	685.99	
40 05 19 00-0133	EA		10" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,241.38	595.71
			<i>For Class 52 Rating, Deduct</i>	-257.27	
			<i>For Class 54 Rating, Add</i>	361.65	
			<i>For Class 55 Rating, Add</i>	543.21	
			<i>For Class 56 Rating, Add</i>	722.44	
40 05 19 00-0134	EA		10" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,371.49	600.63
			<i>For Class 52 Rating, Deduct</i>	-270.76	
			<i>For Class 54 Rating, Add</i>	380.14	
			<i>For Class 55 Rating, Add</i>	570.74	
			<i>For Class 56 Rating, Add</i>	758.89	
40 05 19 00-0135	EA		10" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,501.60	605.56
			<i>For Class 52 Rating, Deduct</i>	-284.25	
			<i>For Class 54 Rating, Add</i>	398.62	
			<i>For Class 55 Rating, Add</i>	598.27	
			<i>For Class 56 Rating, Add</i>	795.34	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0136 EA 10" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,631.71	610.48
<i>For Class 52 Rating, Deduct</i>	-297.74	
<i>For Class 54 Rating, Add</i>	417.11	
<i>For Class 55 Rating, Add</i>	625.80	
<i>For Class 56 Rating, Add</i>	831.79	
40 05 19 00-0137 EA 10" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,761.82	615.40
<i>For Class 52 Rating, Deduct</i>	-311.23	
<i>For Class 54 Rating, Add</i>	435.60	
<i>For Class 55 Rating, Add</i>	653.33	
<i>For Class 56 Rating, Add</i>	868.24	
40 05 19 00-0138 EA 10" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,891.93	620.33
<i>For Class 52 Rating, Deduct</i>	-324.72	
<i>For Class 54 Rating, Add</i>	454.08	
<i>For Class 55 Rating, Add</i>	680.86	
<i>For Class 56 Rating, Add</i>	904.69	
40 05 19 00-0139 EA 10" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,022.04	625.25
<i>For Class 52 Rating, Deduct</i>	-338.22	
<i>For Class 54 Rating, Add</i>	472.57	
<i>For Class 55 Rating, Add</i>	708.39	
<i>For Class 56 Rating, Add</i>	941.14	
40 05 19 00-0140 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,152.14	630.17
<i>For Class 52 Rating, Deduct</i>	-351.71	
<i>For Class 54 Rating, Add</i>	491.06	
<i>For Class 55 Rating, Add</i>	735.92	
<i>For Class 56 Rating, Add</i>	977.59	
40 05 19 00-0141 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,282.25	635.10
<i>For Class 52 Rating, Deduct</i>	-365.20	
<i>For Class 54 Rating, Add</i>	509.54	
<i>For Class 55 Rating, Add</i>	763.45	
<i>For Class 56 Rating, Add</i>	1,014.04	
40 05 19 00-0142 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,412.36	640.02
<i>For Class 52 Rating, Deduct</i>	-378.69	
<i>For Class 54 Rating, Add</i>	528.03	
<i>For Class 55 Rating, Add</i>	790.98	
<i>For Class 56 Rating, Add</i>	1,050.49	
40 05 19 00-0143 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,542.46	644.94
<i>For Class 52 Rating, Deduct</i>	-392.18	
<i>For Class 54 Rating, Add</i>	546.52	
<i>For Class 55 Rating, Add</i>	818.51	
<i>For Class 56 Rating, Add</i>	1,086.94	
40 05 19 00-0144 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,672.58	649.86
<i>For Class 52 Rating, Deduct</i>	-405.67	
<i>For Class 54 Rating, Add</i>	565.01	
<i>For Class 55 Rating, Add</i>	846.04	
<i>For Class 56 Rating, Add</i>	1,123.39	
40 05 19 00-0145 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,802.68	654.79
<i>For Class 52 Rating, Deduct</i>	-419.16	
<i>For Class 54 Rating, Add</i>	583.49	
<i>For Class 55 Rating, Add</i>	873.57	
<i>For Class 56 Rating, Add</i>	1,159.84	
40 05 19 00-0146 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,932.80	659.72
<i>For Class 52 Rating, Deduct</i>	-432.66	
<i>For Class 54 Rating, Add</i>	601.98	
<i>For Class 55 Rating, Add</i>	901.10	
<i>For Class 56 Rating, Add</i>	1,196.29	
40 05 19 00-0147 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,062.90	664.63
<i>For Class 52 Rating, Deduct</i>	-446.15	
<i>For Class 54 Rating, Add</i>	620.47	
<i>For Class 55 Rating, Add</i>	928.63	
<i>For Class 56 Rating, Add</i>	1,232.74	
40 05 19 00-0148 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,193.01	669.56
<i>For Class 52 Rating, Deduct</i>	-459.64	
<i>For Class 54 Rating, Add</i>	638.95	
<i>For Class 55 Rating, Add</i>	956.16	
<i>For Class 56 Rating, Add</i>	1,269.19	
40 05 19 00-0149 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,323.13	674.48
<i>For Class 52 Rating, Deduct</i>	-473.13	
<i>For Class 54 Rating, Add</i>	657.44	
<i>For Class 55 Rating, Add</i>	983.69	
<i>For Class 56 Rating, Add</i>	1,305.64	
40 05 19 00-0150 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,453.23	679.41
<i>For Class 52 Rating, Deduct</i>	-486.62	
<i>For Class 54 Rating, Add</i>	675.93	
<i>For Class 55 Rating, Add</i>	1,011.22	
<i>For Class 56 Rating, Add</i>	1,342.09	
40 05 19 00-0151 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,583.34	684.32
<i>For Class 52 Rating, Deduct</i>	-500.11	
<i>For Class 54 Rating, Add</i>	694.41	
<i>For Class 55 Rating, Add</i>	1,038.75	
<i>For Class 56 Rating, Add</i>	1,378.54	
40 05 19 00-0152 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,713.45	689.25
<i>For Class 52 Rating, Deduct</i>	-513.60	
<i>For Class 54 Rating, Add</i>	712.90	
<i>For Class 55 Rating, Add</i>	1,066.28	
<i>For Class 56 Rating, Add</i>	1,414.99	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0153	EA	10" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,843.55	694.18
		<i>For Class 52 Rating, Deduct</i>	-527.09	
		<i>For Class 54 Rating, Add</i>	731.39	
		<i>For Class 55 Rating, Add</i>	1,093.81	
		<i>For Class 56 Rating, Add</i>	1,451.44	
40 05 19 00-0154	EA	10" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,973.66	699.10
		<i>For Class 52 Rating, Deduct</i>	-540.59	
		<i>For Class 54 Rating, Add</i>	749.87	
		<i>For Class 55 Rating, Add</i>	1,121.34	
		<i>For Class 56 Rating, Add</i>	1,487.89	
40 05 19 00-0155	EA	10" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,101.66	704.02
		<i>For Class 52 Rating, Deduct</i>	-553.85	
		<i>For Class 54 Rating, Add</i>	768.04	
		<i>For Class 55 Rating, Add</i>	1,148.40	
		<i>For Class 56 Rating, Add</i>	1,523.71	
40 05 19 00-0156	EA	10" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,233.87	708.94
		<i>For Class 52 Rating, Deduct</i>	-567.57	
		<i>For Class 54 Rating, Add</i>	786.85	
		<i>For Class 55 Rating, Add</i>	1,176.40	
		<i>For Class 56 Rating, Add</i>	1,560.79	
40 05 19 00-0157	EA	10" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,363.99	713.87
		<i>For Class 52 Rating, Deduct</i>	-581.06	
		<i>For Class 54 Rating, Add</i>	805.33	
		<i>For Class 55 Rating, Add</i>	1,203.93	
		<i>For Class 56 Rating, Add</i>	1,597.24	
40 05 19 00-0158	EA	10" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,494.10	718.79
		<i>For Class 52 Rating, Deduct</i>	-594.55	
		<i>For Class 54 Rating, Add</i>	823.82	
		<i>For Class 55 Rating, Add</i>	1,231.46	
		<i>For Class 56 Rating, Add</i>	1,633.69	
40 05 19 00-0159	EA	10" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,624.20	723.71
		<i>For Class 52 Rating, Deduct</i>	-608.04	
		<i>For Class 54 Rating, Add</i>	842.31	
		<i>For Class 55 Rating, Add</i>	1,258.99	
		<i>For Class 56 Rating, Add</i>	1,670.14	
40 05 19 00-0160	EA	10" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,754.32	728.64
		<i>For Class 52 Rating, Deduct</i>	-621.54	
		<i>For Class 54 Rating, Add</i>	860.80	
		<i>For Class 55 Rating, Add</i>	1,286.52	
		<i>For Class 56 Rating, Add</i>	1,706.59	
40 05 19 00-0161	EA	10" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,884.42	733.56
		<i>For Class 52 Rating, Deduct</i>	-635.03	
		<i>For Class 54 Rating, Add</i>	879.28	
		<i>For Class 55 Rating, Add</i>	1,314.05	
		<i>For Class 56 Rating, Add</i>	1,743.04	
40 05 19 00-0162	EA	10" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,014.54	738.48
		<i>For Class 52 Rating, Deduct</i>	-648.52	
		<i>For Class 54 Rating, Add</i>	897.77	
		<i>For Class 55 Rating, Add</i>	1,341.58	
		<i>For Class 56 Rating, Add</i>	1,779.49	
40 05 19 00-0163		<b>12" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0164	EA	12" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,697.97	689.25
		<i>For Class 52 Rating, Deduct</i>	-181.90	
		<i>For Class 54 Rating, Add</i>	260.58	
		<i>For Class 55 Rating, Add</i>	393.83	
		<i>For Class 56 Rating, Add</i>	525.42	
40 05 19 00-0165	EA	12" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,859.80	694.18
		<i>For Class 52 Rating, Deduct</i>	-198.88	
		<i>For Class 54 Rating, Add</i>	283.82	
		<i>For Class 55 Rating, Add</i>	428.43	
		<i>For Class 56 Rating, Add</i>	571.23	
40 05 19 00-0166	EA	12" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,021.63	699.10
		<i>For Class 52 Rating, Deduct</i>	-215.86	
		<i>For Class 54 Rating, Add</i>	307.07	
		<i>For Class 55 Rating, Add</i>	463.03	
		<i>For Class 56 Rating, Add</i>	617.04	
40 05 19 00-0167	EA	12" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,183.45	704.02
		<i>For Class 52 Rating, Deduct</i>	-232.84	
		<i>For Class 54 Rating, Add</i>	330.31	
		<i>For Class 55 Rating, Add</i>	497.64	
		<i>For Class 56 Rating, Add</i>	662.84	
40 05 19 00-0168	EA	12" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,345.27	708.94
		<i>For Class 52 Rating, Deduct</i>	-249.82	
		<i>For Class 54 Rating, Add</i>	353.56	
		<i>For Class 55 Rating, Add</i>	532.24	
		<i>For Class 56 Rating, Add</i>	708.65	
40 05 19 00-0169	EA	12" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,507.11	713.87
		<i>For Class 52 Rating, Deduct</i>	-266.80	
		<i>For Class 54 Rating, Add</i>	376.80	
		<i>For Class 55 Rating, Add</i>	566.84	
		<i>For Class 56 Rating, Add</i>	754.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0170 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,668.94	718.79
<i>For Class 52 Rating, Deduct</i>	-283.78	
<i>For Class 54 Rating, Add</i>	400.05	
<i>For Class 55 Rating, Add</i>	601.45	
<i>For Class 56 Rating, Add</i>	800.27	
40 05 19 00-0171 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,830.76	723.71
<i>For Class 52 Rating, Deduct</i>	-300.77	
<i>For Class 54 Rating, Add</i>	423.29	
<i>For Class 55 Rating, Add</i>	636.05	
<i>For Class 56 Rating, Add</i>	846.07	
40 05 19 00-0172 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,992.60	728.64
<i>For Class 52 Rating, Deduct</i>	-317.75	
<i>For Class 54 Rating, Add</i>	446.54	
<i>For Class 55 Rating, Add</i>	670.65	
<i>For Class 56 Rating, Add</i>	891.88	
40 05 19 00-0173 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,154.42	733.56
<i>For Class 52 Rating, Deduct</i>	-334.73	
<i>For Class 54 Rating, Add</i>	469.78	
<i>For Class 55 Rating, Add</i>	705.26	
<i>For Class 56 Rating, Add</i>	937.69	
40 05 19 00-0174 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,316.26	738.48
<i>For Class 52 Rating, Deduct</i>	-351.71	
<i>For Class 54 Rating, Add</i>	493.03	
<i>For Class 55 Rating, Add</i>	739.86	
<i>For Class 56 Rating, Add</i>	983.50	
40 05 19 00-0175 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,478.07	743.41
<i>For Class 52 Rating, Deduct</i>	-368.69	
<i>For Class 54 Rating, Add</i>	516.27	
<i>For Class 55 Rating, Add</i>	774.46	
<i>For Class 56 Rating, Add</i>	1,029.30	
40 05 19 00-0176 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,639.90	748.33
<i>For Class 52 Rating, Deduct</i>	-385.67	
<i>For Class 54 Rating, Add</i>	539.52	
<i>For Class 55 Rating, Add</i>	809.07	
<i>For Class 56 Rating, Add</i>	1,075.11	
40 05 19 00-0177 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,801.74	753.26
<i>For Class 52 Rating, Deduct</i>	-402.65	
<i>For Class 54 Rating, Add</i>	562.76	
<i>For Class 55 Rating, Add</i>	843.67	
<i>For Class 56 Rating, Add</i>	1,120.92	
40 05 19 00-0178 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,963.56	758.17
<i>For Class 52 Rating, Deduct</i>	-419.63	
<i>For Class 54 Rating, Add</i>	586.01	
<i>For Class 55 Rating, Add</i>	878.27	
<i>For Class 56 Rating, Add</i>	1,166.72	
40 05 19 00-0179 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,125.39	763.10
<i>For Class 52 Rating, Deduct</i>	-436.61	
<i>For Class 54 Rating, Add</i>	609.25	
<i>For Class 55 Rating, Add</i>	912.88	
<i>For Class 56 Rating, Add</i>	1,212.53	
40 05 19 00-0180 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,287.22	768.03
<i>For Class 52 Rating, Deduct</i>	-453.59	
<i>For Class 54 Rating, Add</i>	632.50	
<i>For Class 55 Rating, Add</i>	947.48	
<i>For Class 56 Rating, Add</i>	1,258.34	
40 05 19 00-0181 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,449.05	772.94
<i>For Class 52 Rating, Deduct</i>	-470.57	
<i>For Class 54 Rating, Add</i>	655.74	
<i>For Class 55 Rating, Add</i>	982.08	
<i>For Class 56 Rating, Add</i>	1,304.15	
40 05 19 00-0182 EA 12" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,610.88	777.87
<i>For Class 52 Rating, Deduct</i>	-487.55	
<i>For Class 54 Rating, Add</i>	678.99	
<i>For Class 55 Rating, Add</i>	1,016.69	
<i>For Class 56 Rating, Add</i>	1,349.95	
40 05 19 00-0183 EA 12" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,772.70	782.79
<i>For Class 52 Rating, Deduct</i>	-504.53	
<i>For Class 54 Rating, Add</i>	702.23	
<i>For Class 55 Rating, Add</i>	1,051.29	
<i>For Class 56 Rating, Add</i>	1,395.76	
40 05 19 00-0184 EA 12" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,934.53	787.72
<i>For Class 52 Rating, Deduct</i>	-521.51	
<i>For Class 54 Rating, Add</i>	725.48	
<i>For Class 55 Rating, Add</i>	1,085.89	
<i>For Class 56 Rating, Add</i>	1,441.57	
40 05 19 00-0185 EA 12" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,096.36	792.64
<i>For Class 52 Rating, Deduct</i>	-538.49	
<i>For Class 54 Rating, Add</i>	748.72	
<i>For Class 55 Rating, Add</i>	1,120.50	
<i>For Class 56 Rating, Add</i>	1,487.37	
40 05 19 00-0186 EA 12" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,258.19	797.56
<i>For Class 52 Rating, Deduct</i>	-555.47	
<i>For Class 54 Rating, Add</i>	771.97	
<i>For Class 55 Rating, Add</i>	1,155.10	
<i>For Class 56 Rating, Add</i>	1,533.18	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0187	EA	12" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,420.01	802.49
		<i>For Class 52 Rating, Deduct</i>	-572.45	
		<i>For Class 54 Rating, Add</i>	795.21	
		<i>For Class 55 Rating, Add</i>	1,189.70	
		<i>For Class 56 Rating, Add</i>	1,578.99	
40 05 19 00-0188	EA	12" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,743.85	807.41
		<i>For Class 52 Rating, Deduct</i>	-589.44	
		<i>For Class 54 Rating, Add</i>	818.46	
		<i>For Class 55 Rating, Add</i>	1,224.31	
		<i>For Class 56 Rating, Add</i>	1,624.80	
40 05 19 00-0189	EA	12" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,743.67	812.33
		<i>For Class 52 Rating, Deduct</i>	-606.42	
		<i>For Class 54 Rating, Add</i>	841.70	
		<i>For Class 55 Rating, Add</i>	1,258.91	
		<i>For Class 56 Rating, Add</i>	1,670.61	
40 05 19 00-0190	EA	12" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,905.51	817.26
		<i>For Class 52 Rating, Deduct</i>	-623.40	
		<i>For Class 54 Rating, Add</i>	864.95	
		<i>For Class 55 Rating, Add</i>	1,293.51	
		<i>For Class 56 Rating, Add</i>	1,716.41	
40 05 19 00-0191	EA	12" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,067.33	822.18
		<i>For Class 52 Rating, Deduct</i>	-640.38	
		<i>For Class 54 Rating, Add</i>	888.19	
		<i>For Class 55 Rating, Add</i>	1,328.11	
		<i>For Class 56 Rating, Add</i>	1,762.22	
40 05 19 00-0192	EA	12" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,229.15	827.10
		<i>For Class 52 Rating, Deduct</i>	-657.36	
		<i>For Class 54 Rating, Add</i>	911.43	
		<i>For Class 55 Rating, Add</i>	1,362.72	
		<i>For Class 56 Rating, Add</i>	1,808.03	
40 05 19 00-0193	EA	12" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,390.99	832.02
		<i>For Class 52 Rating, Deduct</i>	-674.34	
		<i>For Class 54 Rating, Add</i>	934.68	
		<i>For Class 55 Rating, Add</i>	1,397.32	
		<i>For Class 56 Rating, Add</i>	1,853.83	
40 05 19 00-0194	EA	12" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,552.81	836.95
		<i>For Class 52 Rating, Deduct</i>	-691.32	
		<i>For Class 54 Rating, Add</i>	957.92	
		<i>For Class 55 Rating, Add</i>	1,431.92	
		<i>For Class 56 Rating, Add</i>	1,899.64	
40 05 19 00-0195	EA	12" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,714.64	841.87
		<i>For Class 52 Rating, Deduct</i>	-708.30	
		<i>For Class 54 Rating, Add</i>	981.17	
		<i>For Class 55 Rating, Add</i>	1,466.53	
		<i>For Class 56 Rating, Add</i>	1,945.45	
40 05 19 00-0196	EA	12" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,876.47	846.79
		<i>For Class 52 Rating, Deduct</i>	-725.28	
		<i>For Class 54 Rating, Add</i>	1,004.41	
		<i>For Class 55 Rating, Add</i>	1,501.13	
		<i>For Class 56 Rating, Add</i>	1,991.26	
40 05 19 00-0197	EA	12" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,038.30	851.72
		<i>For Class 52 Rating, Deduct</i>	-742.26	
		<i>For Class 54 Rating, Add</i>	1,027.66	
		<i>For Class 55 Rating, Add</i>	1,535.74	
		<i>For Class 56 Rating, Add</i>	2,037.06	
40 05 19 00-0198	EA	12" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,200.12	856.64
		<i>For Class 52 Rating, Deduct</i>	-759.24	
		<i>For Class 54 Rating, Add</i>	1,050.90	
		<i>For Class 55 Rating, Add</i>	1,570.34	
		<i>For Class 56 Rating, Add</i>	2,082.87	
40 05 19 00-0199	EA	12" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,361.95	861.57
		<i>For Class 52 Rating, Deduct</i>	-776.22	
		<i>For Class 54 Rating, Add</i>	1,074.15	
		<i>For Class 55 Rating, Add</i>	1,604.94	
		<i>For Class 56 Rating, Add</i>	2,128.68	
40 05 19 00-0200	EA	12" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,523.78	866.48
		<i>For Class 52 Rating, Deduct</i>	-793.20	
		<i>For Class 54 Rating, Add</i>	1,097.39	
		<i>For Class 55 Rating, Add</i>	1,639.54	
		<i>For Class 56 Rating, Add</i>	2,174.48	
40 05 19 00-0201	EA	12" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,685.61	871.41
		<i>For Class 52 Rating, Deduct</i>	-810.18	
		<i>For Class 54 Rating, Add</i>	1,120.64	
		<i>For Class 55 Rating, Add</i>	1,674.15	
		<i>For Class 56 Rating, Add</i>	2,220.29	
40 05 19 00-0202	EA	12" Flanged (FxF), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,847.44	876.34
		<i>For Class 52 Rating, Deduct</i>	-827.16	
		<i>For Class 54 Rating, Add</i>	1,143.88	
		<i>For Class 55 Rating, Add</i>	1,708.75	
		<i>For Class 56 Rating, Add</i>	2,266.10	

40 05 19 00-0203 14" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat,  
Ductile Iron Pipe (40 05 19 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0204 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,568.71	827.10
<i>For Class 52 Rating, Deduct</i>	-254.71	
<i>For Class 54 Rating, Add</i>	362.37	
<i>For Class 55 Rating, Add</i>	546.44	
<i>For Class 56 Rating, Add</i>	728.20	
40 05 19 00-0205 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,764.38	832.02
<i>For Class 52 Rating, Deduct</i>	-275.41	
<i>For Class 54 Rating, Add</i>	390.69	
<i>For Class 55 Rating, Add</i>	588.59	
<i>For Class 56 Rating, Add</i>	783.98	
40 05 19 00-0206 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,960.04	836.95
<i>For Class 52 Rating, Deduct</i>	-296.11	
<i>For Class 54 Rating, Add</i>	419.01	
<i>For Class 55 Rating, Add</i>	630.74	
<i>For Class 56 Rating, Add</i>	839.77	
40 05 19 00-0207 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,155.70	841.87
<i>For Class 52 Rating, Deduct</i>	-316.82	
<i>For Class 54 Rating, Add</i>	447.33	
<i>For Class 55 Rating, Add</i>	672.88	
<i>For Class 56 Rating, Add</i>	895.56	
40 05 19 00-0208 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,351.36	846.79
<i>For Class 52 Rating, Deduct</i>	-337.52	
<i>For Class 54 Rating, Add</i>	475.65	
<i>For Class 55 Rating, Add</i>	715.03	
<i>For Class 56 Rating, Add</i>	951.35	
40 05 19 00-0209 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,547.03	851.72
<i>For Class 52 Rating, Deduct</i>	-358.22	
<i>For Class 54 Rating, Add</i>	503.97	
<i>For Class 55 Rating, Add</i>	757.18	
<i>For Class 56 Rating, Add</i>	1,007.14	
40 05 19 00-0210 EA 14" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,742.69	856.64
<i>For Class 52 Rating, Deduct</i>	-378.92	
<i>For Class 54 Rating, Add</i>	532.29	
<i>For Class 55 Rating, Add</i>	799.33	
<i>For Class 56 Rating, Add</i>	1,062.93	
40 05 19 00-0211 EA 14" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,938.35	861.57
<i>For Class 52 Rating, Deduct</i>	-399.62	
<i>For Class 54 Rating, Add</i>	560.61	
<i>For Class 55 Rating, Add</i>	841.48	
<i>For Class 56 Rating, Add</i>	1,118.71	
40 05 19 00-0212 EA 14" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,134.01	866.48
<i>For Class 52 Rating, Deduct</i>	-420.33	
<i>For Class 54 Rating, Add</i>	588.93	
<i>For Class 55 Rating, Add</i>	883.63	
<i>For Class 56 Rating, Add</i>	1,174.50	
40 05 19 00-0213 EA 14" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,329.68	871.41
<i>For Class 52 Rating, Deduct</i>	-441.03	
<i>For Class 54 Rating, Add</i>	617.25	
<i>For Class 55 Rating, Add</i>	925.77	
<i>For Class 56 Rating, Add</i>	1,230.29	
40 05 19 00-0214 EA 14" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,525.34	876.34
<i>For Class 52 Rating, Deduct</i>	-461.73	
<i>For Class 54 Rating, Add</i>	645.57	
<i>For Class 55 Rating, Add</i>	967.92	
<i>For Class 56 Rating, Add</i>	1,286.08	
40 05 19 00-0215 EA 14" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,721.00	881.25
<i>For Class 52 Rating, Deduct</i>	-482.43	
<i>For Class 54 Rating, Add</i>	673.89	
<i>For Class 55 Rating, Add</i>	1,010.07	
<i>For Class 56 Rating, Add</i>	1,341.87	
40 05 19 00-0216 EA 14" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,916.67	886.18
<i>For Class 52 Rating, Deduct</i>	-503.14	
<i>For Class 54 Rating, Add</i>	702.21	
<i>For Class 55 Rating, Add</i>	1,052.22	
<i>For Class 56 Rating, Add</i>	1,397.66	
40 05 19 00-0217 EA 14" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,112.32	891.10
<i>For Class 52 Rating, Deduct</i>	-523.84	
<i>For Class 54 Rating, Add</i>	730.53	
<i>For Class 55 Rating, Add</i>	1,094.37	
<i>For Class 56 Rating, Add</i>	1,453.45	
40 05 19 00-0218 EA 14" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,307.99	896.03
<i>For Class 52 Rating, Deduct</i>	-544.54	
<i>For Class 54 Rating, Add</i>	758.85	
<i>For Class 55 Rating, Add</i>	1,136.52	
<i>For Class 56 Rating, Add</i>	1,509.23	
40 05 19 00-0219 EA 14" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,503.66	900.95
<i>For Class 52 Rating, Deduct</i>	-565.24	
<i>For Class 54 Rating, Add</i>	787.17	
<i>For Class 55 Rating, Add</i>	1,178.67	
<i>For Class 56 Rating, Add</i>	1,565.02	
40 05 19 00-0220 EA 14" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,699.31	905.87
<i>For Class 52 Rating, Deduct</i>	-585.95	
<i>For Class 54 Rating, Add</i>	815.49	
<i>For Class 55 Rating, Add</i>	1,220.81	
<i>For Class 56 Rating, Add</i>	1,620.81	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0221	EA	14" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,894.98	910.80
		<i>For Class 52 Rating, Deduct</i>	-606.65	
		<i>For Class 54 Rating, Add</i>	843.81	
		<i>For Class 55 Rating, Add</i>	1,262.96	
		<i>For Class 56 Rating, Add</i>	1,676.60	
40 05 19 00-0222	EA	14" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,090.63	915.72
		<i>For Class 52 Rating, Deduct</i>	-627.35	
		<i>For Class 54 Rating, Add</i>	872.13	
		<i>For Class 55 Rating, Add</i>	1,305.11	
		<i>For Class 56 Rating, Add</i>	1,732.39	
40 05 19 00-0223	EA	14" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,286.31	920.64
		<i>For Class 52 Rating, Deduct</i>	-648.05	
		<i>For Class 54 Rating, Add</i>	900.45	
		<i>For Class 55 Rating, Add</i>	1,347.26	
		<i>For Class 56 Rating, Add</i>	1,788.18	
40 05 19 00-0224	EA	14" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,481.96	925.57
		<i>For Class 52 Rating, Deduct</i>	-668.75	
		<i>For Class 54 Rating, Add</i>	928.77	
		<i>For Class 55 Rating, Add</i>	1,389.41	
		<i>For Class 56 Rating, Add</i>	1,843.96	
40 05 19 00-0225	EA	14" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,677.62	930.49
		<i>For Class 52 Rating, Deduct</i>	-689.46	
		<i>For Class 54 Rating, Add</i>	957.09	
		<i>For Class 55 Rating, Add</i>	1,431.55	
		<i>For Class 56 Rating, Add</i>	1,899.75	
40 05 19 00-0226	EA	14" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,873.30	935.41
		<i>For Class 52 Rating, Deduct</i>	-710.16	
		<i>For Class 54 Rating, Add</i>	985.41	
		<i>For Class 55 Rating, Add</i>	1,473.70	
		<i>For Class 56 Rating, Add</i>	1,955.54	
40 05 19 00-0227	EA	14" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,068.95	940.33
		<i>For Class 52 Rating, Deduct</i>	-730.86	
		<i>For Class 54 Rating, Add</i>	1,013.73	
		<i>For Class 55 Rating, Add</i>	1,515.85	
		<i>For Class 56 Rating, Add</i>	2,011.33	
40 05 19 00-0228	EA	14" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,264.61	945.26
		<i>For Class 52 Rating, Deduct</i>	-751.56	
		<i>For Class 54 Rating, Add</i>	1,042.05	
		<i>For Class 55 Rating, Add</i>	1,558.00	
		<i>For Class 56 Rating, Add</i>	2,067.12	
40 05 19 00-0229	EA	14" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,460.27	950.19
		<i>For Class 52 Rating, Deduct</i>	-772.27	
		<i>For Class 54 Rating, Add</i>	1,070.37	
		<i>For Class 55 Rating, Add</i>	1,600.15	
		<i>For Class 56 Rating, Add</i>	2,122.91	
40 05 19 00-0230	EA	14" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,655.94	955.10
		<i>For Class 52 Rating, Deduct</i>	-792.97	
		<i>For Class 54 Rating, Add</i>	1,098.69	
		<i>For Class 55 Rating, Add</i>	1,642.30	
		<i>For Class 56 Rating, Add</i>	2,178.70	
40 05 19 00-0231	EA	14" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,851.60	960.03
		<i>For Class 52 Rating, Deduct</i>	-813.67	
		<i>For Class 54 Rating, Add</i>	1,127.01	
		<i>For Class 55 Rating, Add</i>	1,684.44	
		<i>For Class 56 Rating, Add</i>	2,234.48	
40 05 19 00-0232	EA	14" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,047.26	964.95
		<i>For Class 52 Rating, Deduct</i>	-834.37	
		<i>For Class 54 Rating, Add</i>	1,155.33	
		<i>For Class 55 Rating, Add</i>	1,726.59	
		<i>For Class 56 Rating, Add</i>	2,290.27	
40 05 19 00-0233	EA	14" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,242.92	969.88
		<i>For Class 52 Rating, Deduct</i>	-855.08	
		<i>For Class 54 Rating, Add</i>	1,183.65	
		<i>For Class 55 Rating, Add</i>	1,768.74	
		<i>For Class 56 Rating, Add</i>	2,346.06	
40 05 19 00-0234	EA	14" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,438.59	974.80
		<i>For Class 52 Rating, Deduct</i>	-875.78	
		<i>For Class 54 Rating, Add</i>	1,211.97	
		<i>For Class 55 Rating, Add</i>	1,810.89	
		<i>For Class 56 Rating, Add</i>	2,401.85	
40 05 19 00-0235	EA	14" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,634.25	979.72
		<i>For Class 52 Rating, Deduct</i>	-896.48	
		<i>For Class 54 Rating, Add</i>	1,240.29	
		<i>For Class 55 Rating, Add</i>	1,853.04	
		<i>For Class 56 Rating, Add</i>	2,457.64	
40 05 19 00-0236	EA	14" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,829.91	984.65
		<i>For Class 52 Rating, Deduct</i>	-917.18	
		<i>For Class 54 Rating, Add</i>	1,268.61	
		<i>For Class 55 Rating, Add</i>	1,895.19	
		<i>For Class 56 Rating, Add</i>	2,513.43	
40 05 19 00-0237	EA	14" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,025.58	989.57
		<i>For Class 52 Rating, Deduct</i>	-937.89	
		<i>For Class 54 Rating, Add</i>	1,296.93	
		<i>For Class 55 Rating, Add</i>	1,937.33	
		<i>For Class 56 Rating, Add</i>	2,569.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0238 EA 14" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,221.23	994.49
<i>For Class 52 Rating, Deduct</i>	-958.59	
<i>For Class 54 Rating, Add</i>	1,325.25	
<i>For Class 55 Rating, Add</i>	1,979.48	
<i>For Class 56 Rating, Add</i>	2,625.00	
40 05 19 00-0239 EA 14" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,416.90	999.41
<i>For Class 52 Rating, Deduct</i>	-979.29	
<i>For Class 54 Rating, Add</i>	1,353.57	
<i>For Class 55 Rating, Add</i>	2,021.63	
<i>For Class 56 Rating, Add</i>	2,680.79	
40 05 19 00-0240 EA 14" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,612.56	1,004.34
<i>For Class 52 Rating, Deduct</i>	-999.99	
<i>For Class 54 Rating, Add</i>	1,381.89	
<i>For Class 55 Rating, Add</i>	2,063.78	
<i>For Class 56 Rating, Add</i>	2,736.58	
40 05 19 00-0241 EA 14" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,808.22	1,009.26
<i>For Class 52 Rating, Deduct</i>	-1,020.69	
<i>For Class 54 Rating, Add</i>	1,410.21	
<i>For Class 55 Rating, Add</i>	2,105.93	
<i>For Class 56 Rating, Add</i>	2,792.37	
<b>40 05 19 00-0242 16" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0243 EA 16" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,177.01	945.26
<i>For Class 52 Rating, Deduct</i>	-301.93	
<i>For Class 54 Rating, Add</i>	428.91	
<i>For Class 55 Rating, Add</i>	646.46	
<i>For Class 56 Rating, Add</i>	861.28	
40 05 19 00-0244 EA 16" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,404.40	950.19
<i>For Class 52 Rating, Deduct</i>	-326.12	
<i>For Class 54 Rating, Add</i>	461.99	
<i>For Class 55 Rating, Add</i>	695.69	
<i>For Class 56 Rating, Add</i>	926.42	
40 05 19 00-0245 EA 16" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,631.78	955.10
<i>For Class 52 Rating, Deduct</i>	-350.31	
<i>For Class 54 Rating, Add</i>	495.06	
<i>For Class 55 Rating, Add</i>	744.91	
<i>For Class 56 Rating, Add</i>	991.57	
40 05 19 00-0246 EA 16" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,859.16	960.03
<i>For Class 52 Rating, Deduct</i>	-374.50	
<i>For Class 54 Rating, Add</i>	528.14	
<i>For Class 55 Rating, Add</i>	794.13	
<i>For Class 56 Rating, Add</i>	1,056.71	
40 05 19 00-0247 EA 16" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,086.54	964.95
<i>For Class 52 Rating, Deduct</i>	-398.69	
<i>For Class 54 Rating, Add</i>	561.22	
<i>For Class 55 Rating, Add</i>	843.35	
<i>For Class 56 Rating, Add</i>	1,121.86	
40 05 19 00-0248 EA 16" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,313.92	969.88
<i>For Class 52 Rating, Deduct</i>	-422.89	
<i>For Class 54 Rating, Add</i>	594.30	
<i>For Class 55 Rating, Add</i>	892.57	
<i>For Class 56 Rating, Add</i>	1,187.01	
40 05 19 00-0249 EA 16" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,541.31	974.80
<i>For Class 52 Rating, Deduct</i>	-447.08	
<i>For Class 54 Rating, Add</i>	627.37	
<i>For Class 55 Rating, Add</i>	941.80	
<i>For Class 56 Rating, Add</i>	1,252.15	
40 05 19 00-0250 EA 16" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,768.69	979.72
<i>For Class 52 Rating, Deduct</i>	-471.27	
<i>For Class 54 Rating, Add</i>	660.45	
<i>For Class 55 Rating, Add</i>	991.02	
<i>For Class 56 Rating, Add</i>	1,317.30	
40 05 19 00-0251 EA 16" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,996.06	984.65
<i>For Class 52 Rating, Deduct</i>	-495.46	
<i>For Class 54 Rating, Add</i>	693.53	
<i>For Class 55 Rating, Add</i>	1,040.24	
<i>For Class 56 Rating, Add</i>	1,382.44	
40 05 19 00-0252 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,223.46	989.57
<i>For Class 52 Rating, Deduct</i>	-519.65	
<i>For Class 54 Rating, Add</i>	726.61	
<i>For Class 55 Rating, Add</i>	1,089.46	
<i>For Class 56 Rating, Add</i>	1,447.59	
40 05 19 00-0253 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,450.83	994.49
<i>For Class 52 Rating, Deduct</i>	-543.84	
<i>For Class 54 Rating, Add</i>	759.69	
<i>For Class 55 Rating, Add</i>	1,138.68	
<i>For Class 56 Rating, Add</i>	1,512.73	
40 05 19 00-0254 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,678.22	999.41
<i>For Class 52 Rating, Deduct</i>	-568.03	
<i>For Class 54 Rating, Add</i>	792.76	
<i>For Class 55 Rating, Add</i>	1,187.90	
<i>For Class 56 Rating, Add</i>	1,577.88	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0255	EA	16" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,905.59	1,004.34
		<i>For Class 52 Rating, Deduct</i>	-592.23	
		<i>For Class 54 Rating, Add</i>	825.84	
		<i>For Class 55 Rating, Add</i>	1,237.12	
		<i>For Class 56 Rating, Add</i>	1,643.02	
40 05 19 00-0256	EA	16" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,132.98	1,009.26
		<i>For Class 52 Rating, Deduct</i>	-616.42	
		<i>For Class 54 Rating, Add</i>	858.92	
		<i>For Class 55 Rating, Add</i>	1,286.35	
		<i>For Class 56 Rating, Add</i>	1,708.17	
40 05 19 00-0257	EA	16" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,360.37	1,014.18
		<i>For Class 52 Rating, Deduct</i>	-640.61	
		<i>For Class 54 Rating, Add</i>	892.00	
		<i>For Class 55 Rating, Add</i>	1,335.57	
		<i>For Class 56 Rating, Add</i>	1,773.32	
40 05 19 00-0258	EA	16" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,587.74	1,019.11
		<i>For Class 52 Rating, Deduct</i>	-664.80	
		<i>For Class 54 Rating, Add</i>	925.08	
		<i>For Class 55 Rating, Add</i>	1,384.79	
		<i>For Class 56 Rating, Add</i>	1,838.46	
40 05 19 00-0259	EA	16" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,815.12	1,024.03
		<i>For Class 52 Rating, Deduct</i>	-688.99	
		<i>For Class 54 Rating, Add</i>	958.15	
		<i>For Class 55 Rating, Add</i>	1,434.01	
		<i>For Class 56 Rating, Add</i>	1,903.61	
40 05 19 00-0260	EA	16" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,042.51	1,028.95
		<i>For Class 52 Rating, Deduct</i>	-713.18	
		<i>For Class 54 Rating, Add</i>	991.23	
		<i>For Class 55 Rating, Add</i>	1,483.23	
		<i>For Class 56 Rating, Add</i>	1,968.75	
40 05 19 00-0261	EA	16" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,269.89	1,033.88
		<i>For Class 52 Rating, Deduct</i>	-737.38	
		<i>For Class 54 Rating, Add</i>	1,024.31	
		<i>For Class 55 Rating, Add</i>	1,532.46	
		<i>For Class 56 Rating, Add</i>	2,033.90	
40 05 19 00-0262	EA	16" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,497.27	1,038.80
		<i>For Class 52 Rating, Deduct</i>	-761.57	
		<i>For Class 54 Rating, Add</i>	1,057.39	
		<i>For Class 55 Rating, Add</i>	1,581.68	
		<i>For Class 56 Rating, Add</i>	2,099.04	
40 05 19 00-0263	EA	16" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,724.65	1,043.73
		<i>For Class 52 Rating, Deduct</i>	-785.76	
		<i>For Class 54 Rating, Add</i>	1,090.46	
		<i>For Class 55 Rating, Add</i>	1,630.90	
		<i>For Class 56 Rating, Add</i>	2,164.19	
40 05 19 00-0264	EA	16" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,952.04	1,048.64
		<i>For Class 52 Rating, Deduct</i>	-809.95	
		<i>For Class 54 Rating, Add</i>	1,123.54	
		<i>For Class 55 Rating, Add</i>	1,680.12	
		<i>For Class 56 Rating, Add</i>	2,229.34	
40 05 19 00-0265	EA	16" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,179.42	1,053.57
		<i>For Class 52 Rating, Deduct</i>	-834.14	
		<i>For Class 54 Rating, Add</i>	1,156.62	
		<i>For Class 55 Rating, Add</i>	1,729.34	
		<i>For Class 56 Rating, Add</i>	2,294.48	
40 05 19 00-0266	EA	16" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,406.80	1,058.50
		<i>For Class 52 Rating, Deduct</i>	-858.33	
		<i>For Class 54 Rating, Add</i>	1,189.70	
		<i>For Class 55 Rating, Add</i>	1,778.56	
		<i>For Class 56 Rating, Add</i>	2,359.63	
40 05 19 00-0267	EA	16" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,634.17	1,063.41
		<i>For Class 52 Rating, Deduct</i>	-882.52	
		<i>For Class 54 Rating, Add</i>	1,222.78	
		<i>For Class 55 Rating, Add</i>	1,827.79	
		<i>For Class 56 Rating, Add</i>	2,424.77	
40 05 19 00-0268	EA	16" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,861.57	1,068.34
		<i>For Class 52 Rating, Deduct</i>	-906.72	
		<i>For Class 54 Rating, Add</i>	1,255.85	
		<i>For Class 55 Rating, Add</i>	1,877.01	
		<i>For Class 56 Rating, Add</i>	2,489.92	
40 05 19 00-0269	EA	16" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,088.94	1,073.26
		<i>For Class 52 Rating, Deduct</i>	-930.91	
		<i>For Class 54 Rating, Add</i>	1,288.93	
		<i>For Class 55 Rating, Add</i>	1,926.23	
		<i>For Class 56 Rating, Add</i>	2,555.06	
40 05 19 00-0270	EA	16" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,316.33	1,078.19
		<i>For Class 52 Rating, Deduct</i>	-955.10	
		<i>For Class 54 Rating, Add</i>	1,322.01	
		<i>For Class 55 Rating, Add</i>	1,975.45	
		<i>For Class 56 Rating, Add</i>	2,620.21	
40 05 19 00-0271	EA	16" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,543.70	1,083.11
		<i>For Class 52 Rating, Deduct</i>	-979.29	
		<i>For Class 54 Rating, Add</i>	1,355.09	
		<i>For Class 55 Rating, Add</i>	2,024.67	
		<i>For Class 56 Rating, Add</i>	2,685.35	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0272 EA 16" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,771.09	1,088.03
<i>For Class 52 Rating, Deduct</i>	-1,003.48	
<i>For Class 54 Rating, Add</i>	1,388.17	
<i>For Class 55 Rating, Add</i>	2,073.90	
<i>For Class 56 Rating, Add</i>	2,750.50	
40 05 19 00-0273 EA 16" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,998.48	1,092.96
<i>For Class 52 Rating, Deduct</i>	-1,027.67	
<i>For Class 54 Rating, Add</i>	1,421.24	
<i>For Class 55 Rating, Add</i>	2,123.12	
<i>For Class 56 Rating, Add</i>	2,815.65	
40 05 19 00-0274 EA 16" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,225.85	1,097.88
<i>For Class 52 Rating, Deduct</i>	-1,051.86	
<i>For Class 54 Rating, Add</i>	1,454.32	
<i>For Class 55 Rating, Add</i>	2,172.34	
<i>For Class 56 Rating, Add</i>	2,880.79	
40 05 19 00-0275 EA 16" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,453.23	1,102.80
<i>For Class 52 Rating, Deduct</i>	-1,076.06	
<i>For Class 54 Rating, Add</i>	1,487.40	
<i>For Class 55 Rating, Add</i>	2,221.56	
<i>For Class 56 Rating, Add</i>	2,945.94	
40 05 19 00-0276 EA 16" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,680.62	1,107.73
<i>For Class 52 Rating, Deduct</i>	-1,100.25	
<i>For Class 54 Rating, Add</i>	1,520.48	
<i>For Class 55 Rating, Add</i>	2,270.78	
<i>For Class 56 Rating, Add</i>	3,011.09	
40 05 19 00-0277 EA 16" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,908.00	1,112.65
<i>For Class 52 Rating, Deduct</i>	-1,124.44	
<i>For Class 54 Rating, Add</i>	1,553.56	
<i>For Class 55 Rating, Add</i>	2,320.00	
<i>For Class 56 Rating, Add</i>	3,076.23	
40 05 19 00-0278 EA 16" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,135.38	1,117.57
<i>For Class 52 Rating, Deduct</i>	-1,148.63	
<i>For Class 54 Rating, Add</i>	1,586.63	
<i>For Class 55 Rating, Add</i>	2,369.23	
<i>For Class 56 Rating, Add</i>	3,141.37	
40 05 19 00-0279 EA 16" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,362.76	1,122.49
<i>For Class 52 Rating, Deduct</i>	-1,172.82	
<i>For Class 54 Rating, Add</i>	1,619.71	
<i>For Class 55 Rating, Add</i>	2,418.45	
<i>For Class 56 Rating, Add</i>	3,206.52	
40 05 19 00-0280 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,590.15	1,127.42
<i>For Class 52 Rating, Deduct</i>	-1,197.01	
<i>For Class 54 Rating, Add</i>	1,652.79	
<i>For Class 55 Rating, Add</i>	2,467.67	
<i>For Class 56 Rating, Add</i>	3,271.67	
<b>40 05 19 00-0281 18" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0282 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,849.62	1,065.39
<i>For Class 52 Rating, Deduct</i>	-355.89	
<i>For Class 54 Rating, Add</i>	504.68	
<i>For Class 55 Rating, Add</i>	760.24	
<i>For Class 56 Rating, Add</i>	1,012.55	
40 05 19 00-0283 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,110.84	1,070.31
<i>For Class 52 Rating, Deduct</i>	-383.81	
<i>For Class 54 Rating, Add</i>	542.83	
<i>For Class 55 Rating, Add</i>	817.00	
<i>For Class 56 Rating, Add</i>	1,087.68	
40 05 19 00-0284 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,372.05	1,075.23
<i>For Class 52 Rating, Deduct</i>	-411.72	
<i>For Class 54 Rating, Add</i>	580.99	
<i>For Class 55 Rating, Add</i>	873.77	
<i>For Class 56 Rating, Add</i>	1,162.81	
40 05 19 00-0285 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,633.27	1,080.16
<i>For Class 52 Rating, Deduct</i>	-439.63	
<i>For Class 54 Rating, Add</i>	619.14	
<i>For Class 55 Rating, Add</i>	930.54	
<i>For Class 56 Rating, Add</i>	1,237.94	
40 05 19 00-0286 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,894.49	1,085.07
<i>For Class 52 Rating, Deduct</i>	-467.55	
<i>For Class 54 Rating, Add</i>	657.29	
<i>For Class 55 Rating, Add</i>	987.30	
<i>For Class 56 Rating, Add</i>	1,313.06	
40 05 19 00-0287 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,155.70	1,090.00
<i>For Class 52 Rating, Deduct</i>	-495.46	
<i>For Class 54 Rating, Add</i>	695.45	
<i>For Class 55 Rating, Add</i>	1,044.07	
<i>For Class 56 Rating, Add</i>	1,388.19	
40 05 19 00-0288 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,416.92	1,094.93
<i>For Class 52 Rating, Deduct</i>	-523.37	
<i>For Class 54 Rating, Add</i>	733.60	
<i>For Class 55 Rating, Add</i>	1,100.84	
<i>For Class 56 Rating, Add</i>	1,463.32	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0289	EA	18" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,678.13	1,099.85
		<i>For Class 52 Rating, Deduct</i>	-551.29	
		<i>For Class 54 Rating, Add</i>	771.75	
		<i>For Class 55 Rating, Add</i>	1,157.60	
		<i>For Class 56 Rating, Add</i>	1,538.44	
40 05 19 00-0290	EA	18" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,939.35	1,104.77
		<i>For Class 52 Rating, Deduct</i>	-579.20	
		<i>For Class 54 Rating, Add</i>	809.90	
		<i>For Class 55 Rating, Add</i>	1,214.37	
		<i>For Class 56 Rating, Add</i>	1,613.57	
40 05 19 00-0291	EA	18" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,200.56	1,109.69
		<i>For Class 52 Rating, Deduct</i>	-607.11	
		<i>For Class 54 Rating, Add</i>	848.06	
		<i>For Class 55 Rating, Add</i>	1,271.14	
		<i>For Class 56 Rating, Add</i>	1,688.70	
40 05 19 00-0292	EA	18" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,461.79	1,114.62
		<i>For Class 52 Rating, Deduct</i>	-635.03	
		<i>For Class 54 Rating, Add</i>	886.21	
		<i>For Class 55 Rating, Add</i>	1,327.90	
		<i>For Class 56 Rating, Add</i>	1,763.82	
40 05 19 00-0293	EA	18" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,722.99	1,119.55
		<i>For Class 52 Rating, Deduct</i>	-662.94	
		<i>For Class 54 Rating, Add</i>	924.36	
		<i>For Class 55 Rating, Add</i>	1,384.67	
		<i>For Class 56 Rating, Add</i>	1,838.95	
40 05 19 00-0294	EA	18" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,984.21	1,124.46
		<i>For Class 52 Rating, Deduct</i>	-690.85	
		<i>For Class 54 Rating, Add</i>	962.52	
		<i>For Class 55 Rating, Add</i>	1,441.44	
		<i>For Class 56 Rating, Add</i>	1,914.08	
40 05 19 00-0295	EA	18" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,245.44	1,129.39
		<i>For Class 52 Rating, Deduct</i>	-718.77	
		<i>For Class 54 Rating, Add</i>	1,000.67	
		<i>For Class 55 Rating, Add</i>	1,498.20	
		<i>For Class 56 Rating, Add</i>	1,989.20	
40 05 19 00-0296	EA	18" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,506.64	1,134.31
		<i>For Class 52 Rating, Deduct</i>	-746.68	
		<i>For Class 54 Rating, Add</i>	1,038.82	
		<i>For Class 55 Rating, Add</i>	1,554.97	
		<i>For Class 56 Rating, Add</i>	2,064.33	
40 05 19 00-0297	EA	18" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,767.86	1,139.23
		<i>For Class 52 Rating, Deduct</i>	-774.59	
		<i>For Class 54 Rating, Add</i>	1,076.98	
		<i>For Class 55 Rating, Add</i>	1,611.74	
		<i>For Class 56 Rating, Add</i>	2,139.46	
40 05 19 00-0298	EA	18" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,029.08	1,144.16
		<i>For Class 52 Rating, Deduct</i>	-802.51	
		<i>For Class 54 Rating, Add</i>	1,115.13	
		<i>For Class 55 Rating, Add</i>	1,668.50	
		<i>For Class 56 Rating, Add</i>	2,214.58	
40 05 19 00-0299	EA	18" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,290.29	1,149.08
		<i>For Class 52 Rating, Deduct</i>	-830.42	
		<i>For Class 54 Rating, Add</i>	1,153.28	
		<i>For Class 55 Rating, Add</i>	1,725.27	
		<i>For Class 56 Rating, Add</i>	2,289.71	
40 05 19 00-0300	EA	18" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,551.51	1,154.01
		<i>For Class 52 Rating, Deduct</i>	-858.33	
		<i>For Class 54 Rating, Add</i>	1,191.43	
		<i>For Class 55 Rating, Add</i>	1,782.04	
		<i>For Class 56 Rating, Add</i>	2,364.84	
40 05 19 00-0301	EA	18" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,812.73	1,158.92
		<i>For Class 52 Rating, Deduct</i>	-886.25	
		<i>For Class 54 Rating, Add</i>	1,229.59	
		<i>For Class 55 Rating, Add</i>	1,838.80	
		<i>For Class 56 Rating, Add</i>	2,439.96	
40 05 19 00-0302	EA	18" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,073.95	1,163.85
		<i>For Class 52 Rating, Deduct</i>	-914.16	
		<i>For Class 54 Rating, Add</i>	1,267.74	
		<i>For Class 55 Rating, Add</i>	1,895.57	
		<i>For Class 56 Rating, Add</i>	2,515.09	
40 05 19 00-0303	EA	18" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,335.16	1,168.77
		<i>For Class 52 Rating, Deduct</i>	-942.07	
		<i>For Class 54 Rating, Add</i>	1,305.89	
		<i>For Class 55 Rating, Add</i>	1,952.34	
		<i>For Class 56 Rating, Add</i>	2,590.22	
40 05 19 00-0304	EA	18" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,596.38	1,173.70
		<i>For Class 52 Rating, Deduct</i>	-969.99	
		<i>For Class 54 Rating, Add</i>	1,344.05	
		<i>For Class 55 Rating, Add</i>	2,009.11	
		<i>For Class 56 Rating, Add</i>	2,665.34	
40 05 19 00-0305	EA	18" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,857.59	1,178.62
		<i>For Class 52 Rating, Deduct</i>	-997.90	
		<i>For Class 54 Rating, Add</i>	1,382.20	
		<i>For Class 55 Rating, Add</i>	2,065.87	
		<i>For Class 56 Rating, Add</i>	2,740.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0306 EA 18" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,118.81	1,183.54
<i>For Class 52 Rating, Deduct</i>	-1,025.81	
<i>For Class 54 Rating, Add</i>	1,420.35	
<i>For Class 55 Rating, Add</i>	2,122.64	
<i>For Class 56 Rating, Add</i>	2,815.60	
40 05 19 00-0307 EA 18" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,380.02	1,188.47
<i>For Class 52 Rating, Deduct</i>	-1,053.73	
<i>For Class 54 Rating, Add</i>	1,458.51	
<i>For Class 55 Rating, Add</i>	2,179.41	
<i>For Class 56 Rating, Add</i>	2,890.72	
40 05 19 00-0308 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,641.25	1,193.38
<i>For Class 52 Rating, Deduct</i>	-1,081.64	
<i>For Class 54 Rating, Add</i>	1,496.66	
<i>For Class 55 Rating, Add</i>	2,236.17	
<i>For Class 56 Rating, Add</i>	2,965.85	
40 05 19 00-0309 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,902.46	1,198.31
<i>For Class 52 Rating, Deduct</i>	-1,109.55	
<i>For Class 54 Rating, Add</i>	1,534.81	
<i>For Class 55 Rating, Add</i>	2,292.94	
<i>For Class 56 Rating, Add</i>	3,040.98	
40 05 19 00-0310 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,163.67	1,203.24
<i>For Class 52 Rating, Deduct</i>	-1,137.46	
<i>For Class 54 Rating, Add</i>	1,572.97	
<i>For Class 55 Rating, Add</i>	2,349.71	
<i>For Class 56 Rating, Add</i>	3,116.10	
40 05 19 00-0311 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,424.90	1,208.16
<i>For Class 52 Rating, Deduct</i>	-1,165.38	
<i>For Class 54 Rating, Add</i>	1,611.12	
<i>For Class 55 Rating, Add</i>	2,406.47	
<i>For Class 56 Rating, Add</i>	3,191.23	
40 05 19 00-0312 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,686.10	1,213.08
<i>For Class 52 Rating, Deduct</i>	-1,193.29	
<i>For Class 54 Rating, Add</i>	1,649.27	
<i>For Class 55 Rating, Add</i>	2,463.24	
<i>For Class 56 Rating, Add</i>	3,266.36	
40 05 19 00-0313 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,947.33	1,218.00
<i>For Class 52 Rating, Deduct</i>	-1,221.20	
<i>For Class 54 Rating, Add</i>	1,687.42	
<i>For Class 55 Rating, Add</i>	2,520.01	
<i>For Class 56 Rating, Add</i>	3,341.49	
40 05 19 00-0314 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,208.54	1,222.93
<i>For Class 52 Rating, Deduct</i>	-1,249.12	
<i>For Class 54 Rating, Add</i>	1,725.58	
<i>For Class 55 Rating, Add</i>	2,576.77	
<i>For Class 56 Rating, Add</i>	3,416.61	
40 05 19 00-0315 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,469.75	1,227.86
<i>For Class 52 Rating, Deduct</i>	-1,277.03	
<i>For Class 54 Rating, Add</i>	1,763.73	
<i>For Class 55 Rating, Add</i>	2,633.54	
<i>For Class 56 Rating, Add</i>	3,491.74	
40 05 19 00-0316 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,730.98	1,232.77
<i>For Class 52 Rating, Deduct</i>	-1,304.94	
<i>For Class 54 Rating, Add</i>	1,801.88	
<i>For Class 55 Rating, Add</i>	2,690.31	
<i>For Class 56 Rating, Add</i>	3,566.87	
40 05 19 00-0317 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,992.19	1,237.70
<i>For Class 52 Rating, Deduct</i>	-1,332.86	
<i>For Class 54 Rating, Add</i>	1,840.04	
<i>For Class 55 Rating, Add</i>	2,747.07	
<i>For Class 56 Rating, Add</i>	3,641.99	
40 05 19 00-0318 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,253.40	1,242.62
<i>For Class 52 Rating, Deduct</i>	-1,360.77	
<i>For Class 54 Rating, Add</i>	1,878.19	
<i>For Class 55 Rating, Add</i>	2,803.84	
<i>For Class 56 Rating, Add</i>	3,717.12	
40 05 19 00-0319 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,514.62	1,247.55
<i>For Class 52 Rating, Deduct</i>	-1,388.68	
<i>For Class 54 Rating, Add</i>	1,916.34	
<i>For Class 55 Rating, Add</i>	2,860.61	
<i>For Class 56 Rating, Add</i>	3,792.25	
40 05 19 00-0320 20" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small>		
40 05 19 00-0321 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,667.86	1,216.04
<i>For Class 52 Rating, Deduct</i>	-420.79	
<i>For Class 54 Rating, Add</i>	595.92	
<i>For Class 55 Rating, Add</i>	897.28	
<i>For Class 56 Rating, Add</i>	1,194.82	
40 05 19 00-0322 EA 20" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,967.14	1,220.96
<i>For Class 52 Rating, Deduct</i>	-452.89	
<i>For Class 54 Rating, Add</i>	639.78	
<i>For Class 55 Rating, Add</i>	962.53	
<i>For Class 56 Rating, Add</i>	1,281.17	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0323	EA	20" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,266.42	1,225.88
		<i>For Class 52 Rating, Deduct</i>	-484.99	
		<i>For Class 54 Rating, Add</i>	683.64	
		<i>For Class 55 Rating, Add</i>	1,027.79	
		<i>For Class 56 Rating, Add</i>	1,367.53	
40 05 19 00-0324	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,565.69	1,230.80
		<i>For Class 52 Rating, Deduct</i>	-517.09	
		<i>For Class 54 Rating, Add</i>	727.50	
		<i>For Class 55 Rating, Add</i>	1,093.04	
		<i>For Class 56 Rating, Add</i>	1,453.88	
40 05 19 00-0325	EA	20" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,864.98	1,235.73
		<i>For Class 52 Rating, Deduct</i>	-549.19	
		<i>For Class 54 Rating, Add</i>	771.37	
		<i>For Class 55 Rating, Add</i>	1,158.30	
		<i>For Class 56 Rating, Add</i>	1,540.24	
40 05 19 00-0326	EA	20" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,164.27	1,240.66
		<i>For Class 52 Rating, Deduct</i>	-581.29	
		<i>For Class 54 Rating, Add</i>	815.23	
		<i>For Class 55 Rating, Add</i>	1,223.56	
		<i>For Class 56 Rating, Add</i>	1,626.60	
40 05 19 00-0327	EA	20" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,463.54	1,245.57
		<i>For Class 52 Rating, Deduct</i>	-613.39	
		<i>For Class 54 Rating, Add</i>	859.09	
		<i>For Class 55 Rating, Add</i>	1,288.81	
		<i>For Class 56 Rating, Add</i>	1,712.95	
40 05 19 00-0328	EA	20" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,762.83	1,250.50
		<i>For Class 52 Rating, Deduct</i>	-645.49	
		<i>For Class 54 Rating, Add</i>	902.96	
		<i>For Class 55 Rating, Add</i>	1,354.07	
		<i>For Class 56 Rating, Add</i>	1,799.31	
40 05 19 00-0329	EA	20" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,062.10	1,255.42
		<i>For Class 52 Rating, Deduct</i>	-677.59	
		<i>For Class 54 Rating, Add</i>	946.82	
		<i>For Class 55 Rating, Add</i>	1,419.32	
		<i>For Class 56 Rating, Add</i>	1,885.66	
40 05 19 00-0330	EA	20" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,361.39	1,260.35
		<i>For Class 52 Rating, Deduct</i>	-709.69	
		<i>For Class 54 Rating, Add</i>	990.68	
		<i>For Class 55 Rating, Add</i>	1,484.58	
		<i>For Class 56 Rating, Add</i>	1,972.02	
40 05 19 00-0331	EA	20" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,660.66	1,265.27
		<i>For Class 52 Rating, Deduct</i>	-741.79	
		<i>For Class 54 Rating, Add</i>	1,034.54	
		<i>For Class 55 Rating, Add</i>	1,549.83	
		<i>For Class 56 Rating, Add</i>	2,058.37	
40 05 19 00-0332	EA	20" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,959.94	1,270.19
		<i>For Class 52 Rating, Deduct</i>	-773.90	
		<i>For Class 54 Rating, Add</i>	1,078.41	
		<i>For Class 55 Rating, Add</i>	1,615.09	
		<i>For Class 56 Rating, Add</i>	2,144.73	
40 05 19 00-0333	EA	20" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,259.23	1,275.12
		<i>For Class 52 Rating, Deduct</i>	-806.00	
		<i>For Class 54 Rating, Add</i>	1,122.27	
		<i>For Class 55 Rating, Add</i>	1,680.34	
		<i>For Class 56 Rating, Add</i>	2,231.08	
40 05 19 00-0334	EA	20" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,558.50	1,280.04
		<i>For Class 52 Rating, Deduct</i>	-838.10	
		<i>For Class 54 Rating, Add</i>	1,166.13	
		<i>For Class 55 Rating, Add</i>	1,745.59	
		<i>For Class 56 Rating, Add</i>	2,317.44	
40 05 19 00-0335	EA	20" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,857.78	1,284.96
		<i>For Class 52 Rating, Deduct</i>	-870.20	
		<i>For Class 54 Rating, Add</i>	1,209.99	
		<i>For Class 55 Rating, Add</i>	1,810.85	
		<i>For Class 56 Rating, Add</i>	2,403.80	
40 05 19 00-0336	EA	20" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,157.06	1,289.89
		<i>For Class 52 Rating, Deduct</i>	-902.30	
		<i>For Class 54 Rating, Add</i>	1,253.86	
		<i>For Class 55 Rating, Add</i>	1,876.10	
		<i>For Class 56 Rating, Add</i>	2,490.15	
40 05 19 00-0337	EA	20" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,456.34	1,294.81
		<i>For Class 52 Rating, Deduct</i>	-934.40	
		<i>For Class 54 Rating, Add</i>	1,297.72	
		<i>For Class 55 Rating, Add</i>	1,941.36	
		<i>For Class 56 Rating, Add</i>	2,576.51	
40 05 19 00-0338	EA	20" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,755.62	1,299.73
		<i>For Class 52 Rating, Deduct</i>	-966.50	
		<i>For Class 54 Rating, Add</i>	1,341.58	
		<i>For Class 55 Rating, Add</i>	2,006.61	
		<i>For Class 56 Rating, Add</i>	2,662.86	
40 05 19 00-0339	EA	20" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,054.90	1,304.65
		<i>For Class 52 Rating, Deduct</i>	-998.60	
		<i>For Class 54 Rating, Add</i>	1,385.44	
		<i>For Class 55 Rating, Add</i>	2,071.87	
		<i>For Class 56 Rating, Add</i>	2,749.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0340 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,354.18	1,309.58
<i>For Class 52 Rating, Deduct</i>	-1,030.70	
<i>For Class 54 Rating, Add</i>	1,429.31	
<i>For Class 55 Rating, Add</i>	2,137.12	
<i>For Class 56 Rating, Add</i>	2,835.57	
40 05 19 00-0341 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,653.46	1,314.50
<i>For Class 52 Rating, Deduct</i>	-1,062.80	
<i>For Class 54 Rating, Add</i>	1,473.17	
<i>For Class 55 Rating, Add</i>	2,202.38	
<i>For Class 56 Rating, Add</i>	2,921.93	
40 05 19 00-0342 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,952.74	1,319.42
<i>For Class 52 Rating, Deduct</i>	-1,094.90	
<i>For Class 54 Rating, Add</i>	1,517.03	
<i>For Class 55 Rating, Add</i>	2,267.63	
<i>For Class 56 Rating, Add</i>	3,008.28	
40 05 19 00-0343 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,252.01	1,324.35
<i>For Class 52 Rating, Deduct</i>	-1,127.00	
<i>For Class 54 Rating, Add</i>	1,560.89	
<i>For Class 55 Rating, Add</i>	2,332.89	
<i>For Class 56 Rating, Add</i>	3,094.64	
40 05 19 00-0344 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,551.30	1,329.27
<i>For Class 52 Rating, Deduct</i>	-1,159.10	
<i>For Class 54 Rating, Add</i>	1,604.76	
<i>For Class 55 Rating, Add</i>	2,398.14	
<i>For Class 56 Rating, Add</i>	3,180.99	
40 05 19 00-0345 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,850.57	1,334.20
<i>For Class 52 Rating, Deduct</i>	-1,191.20	
<i>For Class 54 Rating, Add</i>	1,648.62	
<i>For Class 55 Rating, Add</i>	2,463.40	
<i>For Class 56 Rating, Add</i>	3,267.35	
40 05 19 00-0346 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,149.86	1,339.11
<i>For Class 52 Rating, Deduct</i>	-1,223.30	
<i>For Class 54 Rating, Add</i>	1,692.48	
<i>For Class 55 Rating, Add</i>	2,528.65	
<i>For Class 56 Rating, Add</i>	3,353.71	
40 05 19 00-0347 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,449.14	1,344.04
<i>For Class 52 Rating, Deduct</i>	-1,255.40	
<i>For Class 54 Rating, Add</i>	1,736.34	
<i>For Class 55 Rating, Add</i>	2,593.91	
<i>For Class 56 Rating, Add</i>	3,440.06	
40 05 19 00-0348 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,748.41	1,348.97
<i>For Class 52 Rating, Deduct</i>	-1,287.50	
<i>For Class 54 Rating, Add</i>	1,780.21	
<i>For Class 55 Rating, Add</i>	2,659.16	
<i>For Class 56 Rating, Add</i>	3,526.42	
40 05 19 00-0349 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,047.70	1,353.88
<i>For Class 52 Rating, Deduct</i>	-1,319.60	
<i>For Class 54 Rating, Add</i>	1,824.07	
<i>For Class 55 Rating, Add</i>	2,724.42	
<i>For Class 56 Rating, Add</i>	3,612.77	
40 05 19 00-0350 EA 20" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,346.97	1,358.81
<i>For Class 52 Rating, Deduct</i>	-1,351.70	
<i>For Class 54 Rating, Add</i>	1,867.93	
<i>For Class 55 Rating, Add</i>	2,789.67	
<i>For Class 56 Rating, Add</i>	3,699.13	
40 05 19 00-0351 EA 20" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,646.25	1,363.73
<i>For Class 52 Rating, Deduct</i>	-1,383.80	
<i>For Class 54 Rating, Add</i>	1,911.79	
<i>For Class 55 Rating, Add</i>	2,854.93	
<i>For Class 56 Rating, Add</i>	3,785.48	
40 05 19 00-0352 EA 20" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,945.53	1,368.66
<i>For Class 52 Rating, Deduct</i>	-1,415.90	
<i>For Class 54 Rating, Add</i>	1,955.66	
<i>For Class 55 Rating, Add</i>	2,920.18	
<i>For Class 56 Rating, Add</i>	3,871.84	
40 05 19 00-0353 EA 20" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,244.81	1,373.58
<i>For Class 52 Rating, Deduct</i>	-1,448.00	
<i>For Class 54 Rating, Add</i>	1,999.52	
<i>For Class 55 Rating, Add</i>	2,985.44	
<i>For Class 56 Rating, Add</i>	3,958.19	
40 05 19 00-0354 EA 20" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,543.09	1,378.50
<i>For Class 52 Rating, Deduct</i>	-1,480.10	
<i>For Class 54 Rating, Add</i>	2,043.38	
<i>For Class 55 Rating, Add</i>	3,050.69	
<i>For Class 56 Rating, Add</i>	4,044.55	
40 05 19 00-0355 EA 20" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,843.37	1,383.43
<i>For Class 52 Rating, Deduct</i>	-1,512.20	
<i>For Class 54 Rating, Add</i>	2,087.24	
<i>For Class 55 Rating, Add</i>	3,115.95	
<i>For Class 56 Rating, Add</i>	4,130.90	
40 05 19 00-0356 EA 20" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,142.66	1,388.35
<i>For Class 52 Rating, Deduct</i>	-1,544.30	
<i>For Class 54 Rating, Add</i>	2,131.11	
<i>For Class 55 Rating, Add</i>	3,181.20	
<i>For Class 56 Rating, Add</i>	4,217.26	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0357	EA	20" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,441.94	1,393.27
		<i>For Class 52 Rating, Deduct</i>	-1,576.40	
		<i>For Class 54 Rating, Add</i>	2,174.97	
		<i>For Class 55 Rating, Add</i>	3,246.46	
		<i>For Class 56 Rating, Add</i>	4,303.62	
40 05 19 00-0358	EA	20" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,741.22	1,398.20
		<i>For Class 52 Rating, Deduct</i>	-1,608.50	
		<i>For Class 54 Rating, Add</i>	2,218.83	
		<i>For Class 55 Rating, Add</i>	3,311.71	
		<i>For Class 56 Rating, Add</i>	4,389.97	
<b>40 05 19 00-0359</b>		<b>24" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small></b>		
40 05 19 00-0360	EA	24" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,953.01	1,437.58
		<i>For Class 52 Rating, Deduct</i>	-525.23	
		<i>For Class 54 Rating, Add</i>	742.37	
		<i>For Class 55 Rating, Add</i>	1,117.07	
		<i>For Class 56 Rating, Add</i>	1,487.00	
40 05 19 00-0361	EA	24" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,322.07	1,442.51
		<i>For Class 52 Rating, Deduct</i>	-565.01	
		<i>For Class 54 Rating, Add</i>	796.70	
		<i>For Class 55 Rating, Add</i>	1,197.89	
		<i>For Class 56 Rating, Add</i>	1,593.94	
40 05 19 00-0362	EA	24" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,691.13	1,447.42
		<i>For Class 52 Rating, Deduct</i>	-604.79	
		<i>For Class 54 Rating, Add</i>	851.03	
		<i>For Class 55 Rating, Add</i>	1,278.70	
		<i>For Class 56 Rating, Add</i>	1,700.88	
40 05 19 00-0363	EA	24" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,060.20	1,452.35
		<i>For Class 52 Rating, Deduct</i>	-644.56	
		<i>For Class 54 Rating, Add</i>	905.36	
		<i>For Class 55 Rating, Add</i>	1,359.52	
		<i>For Class 56 Rating, Add</i>	1,807.82	
40 05 19 00-0364	EA	24" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,429.27	1,457.28
		<i>For Class 52 Rating, Deduct</i>	-684.34	
		<i>For Class 54 Rating, Add</i>	959.69	
		<i>For Class 55 Rating, Add</i>	1,440.34	
		<i>For Class 56 Rating, Add</i>	1,914.76	
40 05 19 00-0365	EA	24" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,798.32	1,462.19
		<i>For Class 52 Rating, Deduct</i>	-724.12	
		<i>For Class 54 Rating, Add</i>	1,014.02	
		<i>For Class 55 Rating, Add</i>	1,521.15	
		<i>For Class 56 Rating, Add</i>	2,021.70	
40 05 19 00-0366	EA	24" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,167.39	1,467.12
		<i>For Class 52 Rating, Deduct</i>	-763.89	
		<i>For Class 54 Rating, Add</i>	1,068.35	
		<i>For Class 55 Rating, Add</i>	1,601.97	
		<i>For Class 56 Rating, Add</i>	2,128.65	
40 05 19 00-0367	EA	24" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,536.45	1,472.04
		<i>For Class 52 Rating, Deduct</i>	-803.67	
		<i>For Class 54 Rating, Add</i>	1,122.68	
		<i>For Class 55 Rating, Add</i>	1,682.78	
		<i>For Class 56 Rating, Add</i>	2,235.59	
40 05 19 00-0368	EA	24" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,905.51	1,476.97
		<i>For Class 52 Rating, Deduct</i>	-843.44	
		<i>For Class 54 Rating, Add</i>	1,177.01	
		<i>For Class 55 Rating, Add</i>	1,763.60	
		<i>For Class 56 Rating, Add</i>	2,342.53	
40 05 19 00-0369	EA	24" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,274.58	1,481.89
		<i>For Class 52 Rating, Deduct</i>	-883.22	
		<i>For Class 54 Rating, Add</i>	1,231.34	
		<i>For Class 55 Rating, Add</i>	1,844.42	
		<i>For Class 56 Rating, Add</i>	2,449.47	
40 05 19 00-0370	EA	24" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,643.64	1,486.81
		<i>For Class 52 Rating, Deduct</i>	-923.00	
		<i>For Class 54 Rating, Add</i>	1,285.67	
		<i>For Class 55 Rating, Add</i>	1,925.23	
		<i>For Class 56 Rating, Add</i>	2,556.41	
40 05 19 00-0371	EA	24" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,012.70	1,491.74
		<i>For Class 52 Rating, Deduct</i>	-962.78	
		<i>For Class 54 Rating, Add</i>	1,340.00	
		<i>For Class 55 Rating, Add</i>	2,006.05	
		<i>For Class 56 Rating, Add</i>	2,663.35	
40 05 19 00-0372	EA	24" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,381.77	1,496.66
		<i>For Class 52 Rating, Deduct</i>	-1,002.55	
		<i>For Class 54 Rating, Add</i>	1,394.33	
		<i>For Class 55 Rating, Add</i>	2,086.87	
		<i>For Class 56 Rating, Add</i>	2,770.30	
40 05 19 00-0373	EA	24" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,750.83	1,501.58
		<i>For Class 52 Rating, Deduct</i>	-1,042.33	
		<i>For Class 54 Rating, Add</i>	1,448.66	
		<i>For Class 55 Rating, Add</i>	2,167.68	
		<i>For Class 56 Rating, Add</i>	2,877.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0374 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,119.89	1,506.51
<i>For Class 52 Rating, Deduct</i>	-1,082.10	
<i>For Class 54 Rating, Add</i>	1,502.99	
<i>For Class 55 Rating, Add</i>	2,248.50	
<i>For Class 56 Rating, Add</i>	2,984.18	
40 05 19 00-0375 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,488.96	1,511.43
<i>For Class 52 Rating, Deduct</i>	-1,121.88	
<i>For Class 54 Rating, Add</i>	1,557.32	
<i>For Class 55 Rating, Add</i>	2,329.32	
<i>For Class 56 Rating, Add</i>	3,091.12	
40 05 19 00-0376 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,858.01	1,516.36
<i>For Class 52 Rating, Deduct</i>	-1,161.66	
<i>For Class 54 Rating, Add</i>	1,611.65	
<i>For Class 55 Rating, Add</i>	2,410.13	
<i>For Class 56 Rating, Add</i>	3,198.06	
40 05 19 00-0377 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,227.09	1,521.27
<i>For Class 52 Rating, Deduct</i>	-1,201.43	
<i>For Class 54 Rating, Add</i>	1,665.98	
<i>For Class 55 Rating, Add</i>	2,490.95	
<i>For Class 56 Rating, Add</i>	3,305.00	
40 05 19 00-0378 EA 24" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,596.14	1,526.20
<i>For Class 52 Rating, Deduct</i>	-1,241.21	
<i>For Class 54 Rating, Add</i>	1,720.31	
<i>For Class 55 Rating, Add</i>	2,571.77	
<i>For Class 56 Rating, Add</i>	3,411.94	
40 05 19 00-0379 EA 24" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,965.20	1,531.13
<i>For Class 52 Rating, Deduct</i>	-1,280.99	
<i>For Class 54 Rating, Add</i>	1,774.64	
<i>For Class 55 Rating, Add</i>	2,652.58	
<i>For Class 56 Rating, Add</i>	3,518.89	
40 05 19 00-0380 EA 24" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,334.28	1,536.04
<i>For Class 52 Rating, Deduct</i>	-1,320.76	
<i>For Class 54 Rating, Add</i>	1,828.97	
<i>For Class 55 Rating, Add</i>	2,733.40	
<i>For Class 56 Rating, Add</i>	3,625.83	
40 05 19 00-0381 EA 24" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,703.33	1,540.97
<i>For Class 52 Rating, Deduct</i>	-1,360.54	
<i>For Class 54 Rating, Add</i>	1,883.30	
<i>For Class 55 Rating, Add</i>	2,814.22	
<i>For Class 56 Rating, Add</i>	3,732.77	
40 05 19 00-0382 EA 24" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,072.39	1,545.89
<i>For Class 52 Rating, Deduct</i>	-1,400.31	
<i>For Class 54 Rating, Add</i>	1,937.63	
<i>For Class 55 Rating, Add</i>	2,895.03	
<i>For Class 56 Rating, Add</i>	3,839.71	
40 05 19 00-0383 EA 24" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,441.46	1,550.82
<i>For Class 52 Rating, Deduct</i>	-1,440.09	
<i>For Class 54 Rating, Add</i>	1,991.96	
<i>For Class 55 Rating, Add</i>	2,975.85	
<i>For Class 56 Rating, Add</i>	3,946.65	
40 05 19 00-0384 EA 24" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,810.52	1,555.74
<i>For Class 52 Rating, Deduct</i>	-1,479.87	
<i>For Class 54 Rating, Add</i>	2,046.29	
<i>For Class 55 Rating, Add</i>	3,056.67	
<i>For Class 56 Rating, Add</i>	4,053.59	
40 05 19 00-0385 EA 24" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,179.58	1,560.66
<i>For Class 52 Rating, Deduct</i>	-1,519.64	
<i>For Class 54 Rating, Add</i>	2,100.62	
<i>For Class 55 Rating, Add</i>	3,137.48	
<i>For Class 56 Rating, Add</i>	4,160.53	
40 05 19 00-0386 EA 24" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,548.65	1,565.59
<i>For Class 52 Rating, Deduct</i>	-1,559.42	
<i>For Class 54 Rating, Add</i>	2,154.95	
<i>For Class 55 Rating, Add</i>	3,218.30	
<i>For Class 56 Rating, Add</i>	4,267.48	
40 05 19 00-0387 EA 24" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,917.71	1,570.51
<i>For Class 52 Rating, Deduct</i>	-1,599.20	
<i>For Class 54 Rating, Add</i>	2,209.28	
<i>For Class 55 Rating, Add</i>	3,299.12	
<i>For Class 56 Rating, Add</i>	4,374.42	
40 05 19 00-0388 EA 24" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,286.77	1,575.43
<i>For Class 52 Rating, Deduct</i>	-1,638.97	
<i>For Class 54 Rating, Add</i>	2,263.61	
<i>For Class 55 Rating, Add</i>	3,379.93	
<i>For Class 56 Rating, Add</i>	4,481.36	
40 05 19 00-0389 EA 24" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,282.64	1,664.05
<i>For Class 52 Rating, Deduct</i>	-1,678.75	
<i>For Class 54 Rating, Add</i>	2,319.46	
<i>For Class 55 Rating, Add</i>	3,463.79	
<i>For Class 56 Rating, Add</i>	4,592.87	
40 05 19 00-0390 EA 24" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,151.71	1,668.97
<i>For Class 52 Rating, Deduct</i>	-1,718.53	
<i>For Class 54 Rating, Add</i>	2,373.79	
<i>For Class 55 Rating, Add</i>	3,544.61	
<i>For Class 56 Rating, Add</i>	4,699.81	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0391	EA	24"	Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,520.76	1,673.90
			<i>For Class 52 Rating, Deduct</i>	-1,758.30	
			<i>For Class 54 Rating, Add</i>	2,428.12	
			<i>For Class 55 Rating, Add</i>	3,625.43	
			<i>For Class 56 Rating, Add</i>	4,806.75	
40 05 19 00-0392	EA	24"	Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,889.84	1,678.82
			<i>For Class 52 Rating, Deduct</i>	-1,798.08	
			<i>For Class 54 Rating, Add</i>	2,482.45	
			<i>For Class 55 Rating, Add</i>	3,706.24	
			<i>For Class 56 Rating, Add</i>	4,913.69	
40 05 19 00-0393	EA	24"	Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,258.90	1,683.74
			<i>For Class 52 Rating, Deduct</i>	-1,837.85	
			<i>For Class 54 Rating, Add</i>	2,536.78	
			<i>For Class 55 Rating, Add</i>	3,787.06	
			<i>For Class 56 Rating, Add</i>	5,020.63	
40 05 19 00-0394	EA	24"	Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,627.95	1,688.67
			<i>For Class 52 Rating, Deduct</i>	-1,877.63	
			<i>For Class 54 Rating, Add</i>	2,591.11	
			<i>For Class 55 Rating, Add</i>	3,867.88	
			<i>For Class 56 Rating, Add</i>	5,127.57	
40 05 19 00-0395	EA	24"	Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,997.03	1,693.59
			<i>For Class 52 Rating, Deduct</i>	-1,917.41	
			<i>For Class 54 Rating, Add</i>	2,645.44	
			<i>For Class 55 Rating, Add</i>	3,948.69	
			<i>For Class 56 Rating, Add</i>	5,234.52	
40 05 19 00-0396	EA	24"	Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,366.08	1,698.51
			<i>For Class 52 Rating, Deduct</i>	-1,957.18	
			<i>For Class 54 Rating, Add</i>	2,699.77	
			<i>For Class 55 Rating, Add</i>	4,029.51	
			<i>For Class 56 Rating, Add</i>	5,341.46	
40 05 19 00-0397	EA	24"	Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,735.14	1,703.43
			<i>For Class 52 Rating, Deduct</i>	-1,996.96	
			<i>For Class 54 Rating, Add</i>	2,754.10	
			<i>For Class 55 Rating, Add</i>	4,110.33	
			<i>For Class 56 Rating, Add</i>	5,448.40	
<b>40 05 19 00-0398</b>			<b>30" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0399	EA	30"	Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,664.84	2,028.37
			<i>For Class 52 Rating, Deduct</i>	-835.07	
			<i>For Class 54 Rating, Add</i>	1,175.61	
			<i>For Class 55 Rating, Add</i>	1,766.68	
			<i>For Class 56 Rating, Add</i>	2,350.15	
40 05 19 00-0400	EA	30"	Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,194.62	2,033.29
			<i>For Class 52 Rating, Deduct</i>	-892.53	
			<i>For Class 54 Rating, Add</i>	1,254.05	
			<i>For Class 55 Rating, Add</i>	1,883.33	
			<i>For Class 56 Rating, Add</i>	2,504.50	
40 05 19 00-0401	EA	30"	Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,724.39	2,038.22
			<i>For Class 52 Rating, Deduct</i>	-949.98	
			<i>For Class 54 Rating, Add</i>	1,332.49	
			<i>For Class 55 Rating, Add</i>	1,999.99	
			<i>For Class 56 Rating, Add</i>	2,658.85	
40 05 19 00-0402	EA	30"	Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,254.18	2,043.14
			<i>For Class 52 Rating, Deduct</i>	-1,007.44	
			<i>For Class 54 Rating, Add</i>	1,410.92	
			<i>For Class 55 Rating, Add</i>	2,116.64	
			<i>For Class 56 Rating, Add</i>	2,813.20	
40 05 19 00-0403	EA	30"	Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,783.94	2,048.06
			<i>For Class 52 Rating, Deduct</i>	-1,064.89	
			<i>For Class 54 Rating, Add</i>	1,489.36	
			<i>For Class 55 Rating, Add</i>	2,233.30	
			<i>For Class 56 Rating, Add</i>	2,967.55	
40 05 19 00-0404	EA	30"	Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,313.72	2,052.98
			<i>For Class 52 Rating, Deduct</i>	-1,122.35	
			<i>For Class 54 Rating, Add</i>	1,567.80	
			<i>For Class 55 Rating, Add</i>	2,349.95	
			<i>For Class 56 Rating, Add</i>	3,121.91	
40 05 19 00-0405	EA	30"	Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,843.50	2,057.91
			<i>For Class 52 Rating, Deduct</i>	-1,179.80	
			<i>For Class 54 Rating, Add</i>	1,646.23	
			<i>For Class 55 Rating, Add</i>	2,466.61	
			<i>For Class 56 Rating, Add</i>	3,276.26	
40 05 19 00-0406	EA	30"	Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,373.27	2,062.83
			<i>For Class 52 Rating, Deduct</i>	-1,237.25	
			<i>For Class 54 Rating, Add</i>	1,724.67	
			<i>For Class 55 Rating, Add</i>	2,583.26	
			<i>For Class 56 Rating, Add</i>	3,430.61	
40 05 19 00-0407	EA	30"	Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,903.05	2,067.75
			<i>For Class 52 Rating, Deduct</i>	-1,294.71	
			<i>For Class 54 Rating, Add</i>	1,803.11	
			<i>For Class 55 Rating, Add</i>	2,699.92	
			<i>For Class 56 Rating, Add</i>	3,584.96	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0408 EA 30" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,432.82	2,072.68
<i>For Class 52 Rating, Deduct</i>	-1,352.16	
<i>For Class 54 Rating, Add</i>	1,881.55	
<i>For Class 55 Rating, Add</i>	2,816.58	
<i>For Class 56 Rating, Add</i>	3,739.31	
40 05 19 00-0409 EA 30" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,962.60	2,077.60
<i>For Class 52 Rating, Deduct</i>	-1,409.62	
<i>For Class 54 Rating, Add</i>	1,959.98	
<i>For Class 55 Rating, Add</i>	2,933.23	
<i>For Class 56 Rating, Add</i>	3,893.67	
40 05 19 00-0410 EA 30" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,492.37	2,082.52
<i>For Class 52 Rating, Deduct</i>	-1,467.07	
<i>For Class 54 Rating, Add</i>	2,038.42	
<i>For Class 55 Rating, Add</i>	3,049.89	
<i>For Class 56 Rating, Add</i>	4,048.02	
40 05 19 00-0411 EA 30" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,022.15	2,087.45
<i>For Class 52 Rating, Deduct</i>	-1,524.53	
<i>For Class 54 Rating, Add</i>	2,116.86	
<i>For Class 55 Rating, Add</i>	3,166.54	
<i>For Class 56 Rating, Add</i>	4,202.37	
40 05 19 00-0412 EA 30" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,551.93	2,092.37
<i>For Class 52 Rating, Deduct</i>	-1,581.98	
<i>For Class 54 Rating, Add</i>	2,195.29	
<i>For Class 55 Rating, Add</i>	3,283.20	
<i>For Class 56 Rating, Add</i>	4,356.72	
40 05 19 00-0413 EA 30" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,081.70	2,097.30
<i>For Class 52 Rating, Deduct</i>	-1,639.44	
<i>For Class 54 Rating, Add</i>	2,273.73	
<i>For Class 55 Rating, Add</i>	3,399.85	
<i>For Class 56 Rating, Add</i>	4,511.07	
40 05 19 00-0414 EA 30" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,611.48	2,102.21
<i>For Class 52 Rating, Deduct</i>	-1,696.89	
<i>For Class 54 Rating, Add</i>	2,352.17	
<i>For Class 55 Rating, Add</i>	3,516.51	
<i>For Class 56 Rating, Add</i>	4,665.42	
40 05 19 00-0415 EA 30" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,141.24	2,107.14
<i>For Class 52 Rating, Deduct</i>	-1,754.35	
<i>For Class 54 Rating, Add</i>	2,430.60	
<i>For Class 55 Rating, Add</i>	3,633.16	
<i>For Class 56 Rating, Add</i>	4,819.77	
40 05 19 00-0416 EA 30" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,671.03	2,112.07
<i>For Class 52 Rating, Deduct</i>	-1,811.80	
<i>For Class 54 Rating, Add</i>	2,509.04	
<i>For Class 55 Rating, Add</i>	3,749.82	
<i>For Class 56 Rating, Add</i>	4,974.13	
40 05 19 00-0417 EA 30" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,200.80	2,116.98
<i>For Class 52 Rating, Deduct</i>	-1,869.26	
<i>For Class 54 Rating, Add</i>	2,587.48	
<i>For Class 55 Rating, Add</i>	3,866.48	
<i>For Class 56 Rating, Add</i>	5,128.48	
40 05 19 00-0418 EA 30" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,730.58	2,121.91
<i>For Class 52 Rating, Deduct</i>	-1,926.71	
<i>For Class 54 Rating, Add</i>	2,665.91	
<i>For Class 55 Rating, Add</i>	3,983.13	
<i>For Class 56 Rating, Add</i>	5,282.83	
40 05 19 00-0419 EA 30" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	21,260.35	2,126.83
<i>For Class 52 Rating, Deduct</i>	-1,984.17	
<i>For Class 54 Rating, Add</i>	2,744.35	
<i>For Class 55 Rating, Add</i>	4,099.79	
<i>For Class 56 Rating, Add</i>	5,437.18	
40 05 19 00-0420 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	21,790.13	2,131.76
<i>For Class 52 Rating, Deduct</i>	-2,041.62	
<i>For Class 54 Rating, Add</i>	2,822.79	
<i>For Class 55 Rating, Add</i>	4,216.44	
<i>For Class 56 Rating, Add</i>	5,591.54	
40 05 19 00-0421 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	22,319.91	2,136.68
<i>For Class 52 Rating, Deduct</i>	-2,099.08	
<i>For Class 54 Rating, Add</i>	2,901.23	
<i>For Class 55 Rating, Add</i>	4,333.10	
<i>For Class 56 Rating, Add</i>	5,745.89	
40 05 19 00-0422 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	22,849.68	2,141.60
<i>For Class 52 Rating, Deduct</i>	-2,156.53	
<i>For Class 54 Rating, Add</i>	2,979.66	
<i>For Class 55 Rating, Add</i>	4,449.75	
<i>For Class 56 Rating, Add</i>	5,900.24	
40 05 19 00-0423 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,379.34	2,146.53
<i>For Class 52 Rating, Deduct</i>	-2,213.75	
<i>For Class 54 Rating, Add</i>	3,057.78	
<i>For Class 55 Rating, Add</i>	4,565.94	
<i>For Class 56 Rating, Add</i>	6,053.97	
40 05 19 00-0424 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,909.23	2,151.45
<i>For Class 52 Rating, Deduct</i>	-2,271.44	
<i>For Class 54 Rating, Add</i>	3,136.54	
<i>For Class 55 Rating, Add</i>	4,683.06	
<i>For Class 56 Rating, Add</i>	6,208.94	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0425	EA	30" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,439.01	2,156.37
		<i>For Class 52 Rating, Deduct</i>	-2,328.90	
		<i>For Class 54 Rating, Add</i>	3,214.97	
		<i>For Class 55 Rating, Add</i>	4,799.72	
		<i>For Class 56 Rating, Add</i>	6,363.30	
40 05 19 00-0426	EA	30" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,968.78	2,161.30
		<i>For Class 52 Rating, Deduct</i>	-2,386.35	
		<i>For Class 54 Rating, Add</i>	3,293.41	
		<i>For Class 55 Rating, Add</i>	4,916.37	
		<i>For Class 56 Rating, Add</i>	6,517.65	
40 05 19 00-0427	EA	30" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	25,498.56	2,166.22
		<i>For Class 52 Rating, Deduct</i>	-2,443.81	
		<i>For Class 54 Rating, Add</i>	3,371.85	
		<i>For Class 55 Rating, Add</i>	5,033.03	
		<i>For Class 56 Rating, Add</i>	6,672.00	
40 05 19 00-0428	EA	30" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,028.33	2,171.14
		<i>For Class 52 Rating, Deduct</i>	-2,501.26	
		<i>For Class 54 Rating, Add</i>	3,450.28	
		<i>For Class 55 Rating, Add</i>	5,149.69	
		<i>For Class 56 Rating, Add</i>	6,826.35	
40 05 19 00-0429	EA	30" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,558.11	2,176.06
		<i>For Class 52 Rating, Deduct</i>	-2,558.71	
		<i>For Class 54 Rating, Add</i>	3,528.72	
		<i>For Class 55 Rating, Add</i>	5,266.34	
		<i>For Class 56 Rating, Add</i>	6,980.70	
40 05 19 00-0430	EA	30" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	27,087.89	2,180.99
		<i>For Class 52 Rating, Deduct</i>	-2,616.17	
		<i>For Class 54 Rating, Add</i>	3,607.16	
		<i>For Class 55 Rating, Add</i>	5,383.00	
		<i>For Class 56 Rating, Add</i>	7,135.05	
40 05 19 00-0431	EA	30" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	27,617.65	2,185.92
		<i>For Class 52 Rating, Deduct</i>	-2,673.62	
		<i>For Class 54 Rating, Add</i>	3,685.59	
		<i>For Class 55 Rating, Add</i>	5,499.65	
		<i>For Class 56 Rating, Add</i>	7,289.40	
40 05 19 00-0432	EA	30" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,147.44	2,190.83
		<i>For Class 52 Rating, Deduct</i>	-2,731.08	
		<i>For Class 54 Rating, Add</i>	3,764.03	
		<i>For Class 55 Rating, Add</i>	5,616.31	
		<i>For Class 56 Rating, Add</i>	7,443.76	
40 05 19 00-0433	EA	30" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,677.20	2,195.76
		<i>For Class 52 Rating, Deduct</i>	-2,788.53	
		<i>For Class 54 Rating, Add</i>	3,842.47	
		<i>For Class 55 Rating, Add</i>	5,732.96	
		<i>For Class 56 Rating, Add</i>	7,598.11	
40 05 19 00-0434	EA	30" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	29,206.99	2,200.68
		<i>For Class 52 Rating, Deduct</i>	-2,845.99	
		<i>For Class 54 Rating, Add</i>	3,920.91	
		<i>For Class 55 Rating, Add</i>	5,849.62	
		<i>For Class 56 Rating, Add</i>	7,752.46	
40 05 19 00-0435	EA	30" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	29,736.77	2,205.61
		<i>For Class 52 Rating, Deduct</i>	-2,903.44	
		<i>For Class 54 Rating, Add</i>	3,999.34	
		<i>For Class 55 Rating, Add</i>	5,966.28	
		<i>For Class 56 Rating, Add</i>	7,906.81	
40 05 19 00-0436	EA	30" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	30,266.53	2,210.52
		<i>For Class 52 Rating, Deduct</i>	-2,960.90	
		<i>For Class 54 Rating, Add</i>	4,077.78	
		<i>For Class 55 Rating, Add</i>	6,082.93	
		<i>For Class 56 Rating, Add</i>	8,061.16	
40 05 19 00-0437		<b>36" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0438	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,756.73	2,569.92
		<i>For Class 52 Rating, Deduct</i>	-1,194.92	
		<i>For Class 54 Rating, Add</i>	1,676.16	
		<i>For Class 55 Rating, Add</i>	2,515.88	
		<i>For Class 56 Rating, Add</i>	3,344.74	
40 05 19 00-0439	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,474.70	2,574.84
		<i>For Class 52 Rating, Deduct</i>	-1,273.08	
		<i>For Class 54 Rating, Add</i>	1,782.83	
		<i>For Class 55 Rating, Add</i>	2,674.50	
		<i>For Class 56 Rating, Add</i>	3,554.60	
40 05 19 00-0440	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,192.69	2,579.77
		<i>For Class 52 Rating, Deduct</i>	-1,351.23	
		<i>For Class 54 Rating, Add</i>	1,889.50	
		<i>For Class 55 Rating, Add</i>	2,833.13	
		<i>For Class 56 Rating, Add</i>	3,764.48	
40 05 19 00-0441	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,910.66	2,584.70
		<i>For Class 52 Rating, Deduct</i>	-1,429.39	
		<i>For Class 54 Rating, Add</i>	1,996.16	
		<i>For Class 55 Rating, Add</i>	2,991.75	
		<i>For Class 56 Rating, Add</i>	3,974.35	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0442 EA 36" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,628.64	2,589.61
<i>For Class 52 Rating, Deduct</i>	-1,507.55	
<i>For Class 54 Rating, Add</i>	2,102.83	
<i>For Class 55 Rating, Add</i>	3,150.38	
<i>For Class 56 Rating, Add</i>	4,184.22	
40 05 19 00-0443 EA 36" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,346.62	2,594.54
<i>For Class 52 Rating, Deduct</i>	-1,585.71	
<i>For Class 54 Rating, Add</i>	2,209.50	
<i>For Class 55 Rating, Add</i>	3,309.00	
<i>For Class 56 Rating, Add</i>	4,394.09	
40 05 19 00-0444 EA 36" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,064.60	2,599.46
<i>For Class 52 Rating, Deduct</i>	-1,663.86	
<i>For Class 54 Rating, Add</i>	2,316.17	
<i>For Class 55 Rating, Add</i>	3,467.63	
<i>For Class 56 Rating, Add</i>	4,603.96	
40 05 19 00-0445 EA 36" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,782.58	2,604.39
<i>For Class 52 Rating, Deduct</i>	-1,742.02	
<i>For Class 54 Rating, Add</i>	2,422.83	
<i>For Class 55 Rating, Add</i>	3,626.25	
<i>For Class 56 Rating, Add</i>	4,813.84	
40 05 19 00-0446 EA 36" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,500.56	2,609.31
<i>For Class 52 Rating, Deduct</i>	-1,820.18	
<i>For Class 54 Rating, Add</i>	2,529.50	
<i>For Class 55 Rating, Add</i>	3,784.88	
<i>For Class 56 Rating, Add</i>	5,023.71	
40 05 19 00-0447 EA 36" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	21,218.54	2,614.23
<i>For Class 52 Rating, Deduct</i>	-1,898.33	
<i>For Class 54 Rating, Add</i>	2,636.17	
<i>For Class 55 Rating, Add</i>	3,943.50	
<i>For Class 56 Rating, Add</i>	5,233.58	
40 05 19 00-0448 EA 36" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	21,936.52	2,619.16
<i>For Class 52 Rating, Deduct</i>	-1,976.49	
<i>For Class 54 Rating, Add</i>	2,742.84	
<i>For Class 55 Rating, Add</i>	4,102.13	
<i>For Class 56 Rating, Add</i>	5,443.45	
40 05 19 00-0449 EA 36" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	22,654.50	2,624.08
<i>For Class 52 Rating, Deduct</i>	-2,054.65	
<i>For Class 54 Rating, Add</i>	2,849.50	
<i>For Class 55 Rating, Add</i>	4,260.75	
<i>For Class 56 Rating, Add</i>	5,653.32	
40 05 19 00-0450 EA 36" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,372.46	2,629.00
<i>For Class 52 Rating, Deduct</i>	-2,132.80	
<i>For Class 54 Rating, Add</i>	2,956.17	
<i>For Class 55 Rating, Add</i>	4,419.38	
<i>For Class 56 Rating, Add</i>	5,863.19	
40 05 19 00-0451 EA 36" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,090.45	2,633.93
<i>For Class 52 Rating, Deduct</i>	-2,210.96	
<i>For Class 54 Rating, Add</i>	3,062.84	
<i>For Class 55 Rating, Add</i>	4,578.00	
<i>For Class 56 Rating, Add</i>	6,073.07	
40 05 19 00-0452 EA 36" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,808.42	2,638.85
<i>For Class 52 Rating, Deduct</i>	-2,289.12	
<i>For Class 54 Rating, Add</i>	3,169.50	
<i>For Class 55 Rating, Add</i>	4,736.63	
<i>For Class 56 Rating, Add</i>	6,282.94	
40 05 19 00-0453 EA 36" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	25,526.41	2,643.77
<i>For Class 52 Rating, Deduct</i>	-2,367.28	
<i>For Class 54 Rating, Add</i>	3,276.17	
<i>For Class 55 Rating, Add</i>	4,895.25	
<i>For Class 56 Rating, Add</i>	6,492.81	
40 05 19 00-0454 EA 36" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,244.38	2,648.69
<i>For Class 52 Rating, Deduct</i>	-2,445.43	
<i>For Class 54 Rating, Add</i>	3,382.84	
<i>For Class 55 Rating, Add</i>	5,053.88	
<i>For Class 56 Rating, Add</i>	6,702.68	
40 05 19 00-0455 EA 36" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,962.36	2,653.62
<i>For Class 52 Rating, Deduct</i>	-2,523.59	
<i>For Class 54 Rating, Add</i>	3,489.51	
<i>For Class 55 Rating, Add</i>	5,212.50	
<i>For Class 56 Rating, Add</i>	6,912.55	
40 05 19 00-0456 EA 36" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	27,680.35	2,658.54
<i>For Class 52 Rating, Deduct</i>	-2,601.75	
<i>For Class 54 Rating, Add</i>	3,596.17	
<i>For Class 55 Rating, Add</i>	5,371.13	
<i>For Class 56 Rating, Add</i>	7,122.43	
40 05 19 00-0457 EA 36" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,398.32	2,663.46
<i>For Class 52 Rating, Deduct</i>	-2,679.90	
<i>For Class 54 Rating, Add</i>	3,702.84	
<i>For Class 55 Rating, Add</i>	5,529.75	
<i>For Class 56 Rating, Add</i>	7,332.30	
40 05 19 00-0458 EA 36" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	29,116.30	2,668.39
<i>For Class 52 Rating, Deduct</i>	-2,758.06	
<i>For Class 54 Rating, Add</i>	3,809.51	
<i>For Class 55 Rating, Add</i>	5,688.38	
<i>For Class 56 Rating, Add</i>	7,542.17	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0459	EA	36" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	29,834.28	2,673.31
		<i>For Class 52 Rating, Deduct</i>	-2,836.22	
		<i>For Class 54 Rating, Add</i>	3,916.18	
		<i>For Class 55 Rating, Add</i>	5,847.00	
		<i>For Class 56 Rating, Add</i>	7,752.04	
40 05 19 00-0460	EA	36" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	30,552.25	2,678.24
		<i>For Class 52 Rating, Deduct</i>	-2,914.38	
		<i>For Class 54 Rating, Add</i>	4,022.84	
		<i>For Class 55 Rating, Add</i>	6,005.62	
		<i>For Class 56 Rating, Add</i>	7,961.91	
40 05 19 00-0461	EA	36" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	31,270.23	2,683.15
		<i>For Class 52 Rating, Deduct</i>	-2,992.53	
		<i>For Class 54 Rating, Add</i>	4,129.51	
		<i>For Class 55 Rating, Add</i>	6,164.25	
		<i>For Class 56 Rating, Add</i>	8,171.78	
40 05 19 00-0462	EA	36" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	31,988.21	2,688.08
		<i>For Class 52 Rating, Deduct</i>	-3,070.69	
		<i>For Class 54 Rating, Add</i>	4,236.18	
		<i>For Class 55 Rating, Add</i>	6,322.87	
		<i>For Class 56 Rating, Add</i>	8,381.65	
40 05 19 00-0463	EA	36" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	32,706.19	2,693.01
		<i>For Class 52 Rating, Deduct</i>	-3,148.85	
		<i>For Class 54 Rating, Add</i>	4,342.85	
		<i>For Class 55 Rating, Add</i>	6,481.50	
		<i>For Class 56 Rating, Add</i>	8,591.53	
40 05 19 00-0464	EA	36" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	33,424.17	2,697.92
		<i>For Class 52 Rating, Deduct</i>	-3,227.00	
		<i>For Class 54 Rating, Add</i>	4,449.51	
		<i>For Class 55 Rating, Add</i>	6,640.12	
		<i>For Class 56 Rating, Add</i>	8,801.40	
40 05 19 00-0465	EA	36" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	34,142.15	2,702.85
		<i>For Class 52 Rating, Deduct</i>	-3,305.16	
		<i>For Class 54 Rating, Add</i>	4,556.18	
		<i>For Class 55 Rating, Add</i>	6,798.75	
		<i>For Class 56 Rating, Add</i>	9,011.27	
40 05 19 00-0466	EA	36" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	34,860.12	2,707.77
		<i>For Class 52 Rating, Deduct</i>	-3,383.32	
		<i>For Class 54 Rating, Add</i>	4,662.85	
		<i>For Class 55 Rating, Add</i>	6,957.37	
		<i>For Class 56 Rating, Add</i>	9,221.14	
40 05 19 00-0467	EA	36" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	35,578.11	2,712.70
		<i>For Class 52 Rating, Deduct</i>	-3,461.48	
		<i>For Class 54 Rating, Add</i>	4,769.52	
		<i>For Class 55 Rating, Add</i>	7,116.00	
		<i>For Class 56 Rating, Add</i>	9,431.01	
40 05 19 00-0468	EA	36" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	36,296.08	2,717.62
		<i>For Class 52 Rating, Deduct</i>	-3,539.63	
		<i>For Class 54 Rating, Add</i>	4,876.18	
		<i>For Class 55 Rating, Add</i>	7,274.62	
		<i>For Class 56 Rating, Add</i>	9,640.89	
40 05 19 00-0469	EA	36" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	37,014.07	2,722.54
		<i>For Class 52 Rating, Deduct</i>	-3,617.79	
		<i>For Class 54 Rating, Add</i>	4,982.85	
		<i>For Class 55 Rating, Add</i>	7,433.25	
		<i>For Class 56 Rating, Add</i>	9,850.76	
40 05 19 00-0470	EA	36" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	37,732.05	2,727.47
		<i>For Class 52 Rating, Deduct</i>	-3,695.95	
		<i>For Class 54 Rating, Add</i>	5,089.52	
		<i>For Class 55 Rating, Add</i>	7,591.87	
		<i>For Class 56 Rating, Add</i>	10,060.63	
40 05 19 00-0471	EA	36" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	38,450.01	2,732.39
		<i>For Class 52 Rating, Deduct</i>	-3,774.10	
		<i>For Class 54 Rating, Add</i>	5,196.18	
		<i>For Class 55 Rating, Add</i>	7,750.50	
		<i>For Class 56 Rating, Add</i>	10,270.50	
40 05 19 00-0472	EA	36" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	39,168.00	2,737.31
		<i>For Class 52 Rating, Deduct</i>	-3,852.26	
		<i>For Class 54 Rating, Add</i>	5,302.85	
		<i>For Class 55 Rating, Add</i>	7,909.12	
		<i>For Class 56 Rating, Add</i>	10,480.37	
40 05 19 00-0473	EA	36" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	39,885.97	2,742.24
		<i>For Class 52 Rating, Deduct</i>	-3,930.42	
		<i>For Class 54 Rating, Add</i>	5,409.52	
		<i>For Class 55 Rating, Add</i>	8,067.75	
		<i>For Class 56 Rating, Add</i>	10,690.24	
40 05 19 00-0474	EA	36" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	40,603.95	2,747.16
		<i>For Class 52 Rating, Deduct</i>	-4,008.57	
		<i>For Class 54 Rating, Add</i>	5,516.19	
		<i>For Class 55 Rating, Add</i>	8,226.37	
		<i>For Class 56 Rating, Add</i>	10,900.11	
40 05 19 00-0475	EA	36" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	41,321.93	2,752.08
		<i>For Class 52 Rating, Deduct</i>	-4,086.73	
		<i>For Class 54 Rating, Add</i>	5,622.85	
		<i>For Class 55 Rating, Add</i>	8,385.00	
		<i>For Class 56 Rating, Add</i>	11,109.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 19 00-0476     42" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0002)</small></b>		
40 05 19 00-0477     EA    42" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,399.93	3,239.49
For Class 52 Rating, Deduct	-1,594.08	
For Class 54 Rating, Add	2,232.64	
For Class 55 Rating, Add	3,349.43	
For Class 56 Rating, Add	4,451.73	
40 05 19 00-0478     EA    42" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,468.95	3,244.40
For Class 52 Rating, Deduct	-1,710.85	
For Class 54 Rating, Add	2,391.97	
For Class 55 Rating, Add	3,586.34	
For Class 56 Rating, Add	4,765.16	
40 05 19 00-0479     EA    42" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	21,525.27	3,249.33
For Class 52 Rating, Deduct	-1,826.22	
For Class 54 Rating, Add	2,549.38	
For Class 55 Rating, Add	3,820.41	
For Class 56 Rating, Add	5,074.84	
40 05 19 00-0480     EA    42" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	22,592.15	3,254.25
For Class 52 Rating, Deduct	-1,942.76	
For Class 54 Rating, Add	2,708.39	
For Class 55 Rating, Add	4,056.84	
For Class 56 Rating, Add	5,387.64	
40 05 19 00-0481     EA    42" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,648.48	3,259.18
For Class 52 Rating, Deduct	-2,058.14	
For Class 54 Rating, Add	2,865.81	
For Class 55 Rating, Add	4,290.92	
For Class 56 Rating, Add	5,697.32	
40 05 19 00-0482     EA    42" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,717.48	3,264.09
For Class 52 Rating, Deduct	-2,174.91	
For Class 54 Rating, Add	3,025.13	
For Class 55 Rating, Add	4,527.82	
For Class 56 Rating, Add	6,010.75	
40 05 19 00-0483     EA    42" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	25,771.69	3,269.02
For Class 52 Rating, Deduct	-2,290.05	
For Class 54 Rating, Add	3,182.23	
For Class 55 Rating, Add	4,761.43	
For Class 56 Rating, Add	6,319.81	
40 05 19 00-0484     EA    42" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,840.70	3,273.95
For Class 52 Rating, Deduct	-2,406.82	
For Class 54 Rating, Add	3,341.55	
For Class 55 Rating, Add	4,998.33	
For Class 56 Rating, Add	6,633.23	
40 05 19 00-0485     EA    42" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	27,897.02	3,278.86
For Class 52 Rating, Deduct	-2,522.19	
For Class 54 Rating, Add	3,498.97	
For Class 55 Rating, Add	5,232.41	
For Class 56 Rating, Add	6,942.91	
40 05 19 00-0486     EA    42" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,963.92	3,283.79
For Class 52 Rating, Deduct	-2,638.73	
For Class 54 Rating, Add	3,657.98	
For Class 55 Rating, Add	5,468.84	
For Class 56 Rating, Add	7,255.72	
40 05 19 00-0487     EA    42" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	30,020.24	3,288.71
For Class 52 Rating, Deduct	-2,754.11	
For Class 54 Rating, Add	3,815.40	
For Class 55 Rating, Add	5,702.92	
For Class 56 Rating, Add	7,565.40	
40 05 19 00-0488     EA    42" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	31,087.13	3,293.64
For Class 52 Rating, Deduct	-2,870.64	
For Class 54 Rating, Add	3,974.40	
For Class 55 Rating, Add	5,939.35	
For Class 56 Rating, Add	7,878.20	
40 05 19 00-0489     EA    42" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	32,143.45	3,298.56
For Class 52 Rating, Deduct	-2,986.02	
For Class 54 Rating, Add	4,131.82	
For Class 55 Rating, Add	6,173.42	
For Class 56 Rating, Add	8,187.88	
40 05 19 00-0490     EA    42" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	33,201.89	3,303.48
For Class 52 Rating, Deduct	-3,101.63	
For Class 54 Rating, Add	4,289.55	
For Class 55 Rating, Add	6,407.97	
For Class 56 Rating, Add	8,498.19	
40 05 19 00-0491     EA    42" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	34,266.66	3,308.41
For Class 52 Rating, Deduct	-3,217.93	
For Class 54 Rating, Add	4,448.24	
For Class 55 Rating, Add	6,643.93	
For Class 56 Rating, Add	8,810.37	
40 05 19 00-0492     EA    42" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	35,322.99	3,313.33
For Class 52 Rating, Deduct	-3,333.31	
For Class 54 Rating, Add	4,605.66	
For Class 55 Rating, Add	6,878.01	
For Class 56 Rating, Add	9,120.05	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0493	EA	42" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	36,391.99	3,318.25
		<i>For Class 52 Rating, Deduct</i>	-3,450.08	
		<i>For Class 54 Rating, Add</i>	4,764.98	
		<i>For Class 55 Rating, Add</i>	7,114.91	
		<i>For Class 56 Rating, Add</i>	9,433.48	
40 05 19 00-0494	EA	42" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	37,448.32	3,323.18
		<i>For Class 52 Rating, Deduct</i>	-3,565.45	
		<i>For Class 54 Rating, Add</i>	4,922.40	
		<i>For Class 55 Rating, Add</i>	7,348.99	
		<i>For Class 56 Rating, Add</i>	9,743.16	
40 05 19 00-0495	EA	42" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	38,515.22	3,328.10
		<i>For Class 52 Rating, Deduct</i>	-3,681.99	
		<i>For Class 54 Rating, Add</i>	5,081.41	
		<i>For Class 55 Rating, Add</i>	7,585.42	
		<i>For Class 56 Rating, Add</i>	10,055.96	
40 05 19 00-0496	EA	42" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	39,571.53	3,333.02
		<i>For Class 52 Rating, Deduct</i>	-3,797.37	
		<i>For Class 54 Rating, Add</i>	5,238.83	
		<i>For Class 55 Rating, Add</i>	7,819.50	
		<i>For Class 56 Rating, Add</i>	10,365.64	
40 05 19 00-0497	EA	42" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	40,640.55	3,337.94
		<i>For Class 52 Rating, Deduct</i>	-3,914.14	
		<i>For Class 54 Rating, Add</i>	5,398.15	
		<i>For Class 55 Rating, Add</i>	8,056.40	
		<i>For Class 56 Rating, Add</i>	10,679.07	
40 05 19 00-0498	EA	42" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	41,696.86	3,342.87
		<i>For Class 52 Rating, Deduct</i>	-4,029.51	
		<i>For Class 54 Rating, Add</i>	5,555.57	
		<i>For Class 55 Rating, Add</i>	8,290.47	
		<i>For Class 56 Rating, Add</i>	10,988.75	
40 05 19 00-0499	EA	42" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	42,763.75	3,347.80
		<i>For Class 52 Rating, Deduct</i>	-4,146.05	
		<i>For Class 54 Rating, Add</i>	5,714.57	
		<i>For Class 55 Rating, Add</i>	8,526.91	
		<i>For Class 56 Rating, Add</i>	11,301.55	
40 05 19 00-0500	EA	42" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	43,820.07	3,352.71
		<i>For Class 52 Rating, Deduct</i>	-4,261.42	
		<i>For Class 54 Rating, Add</i>	5,871.99	
		<i>For Class 55 Rating, Add</i>	8,760.98	
		<i>For Class 56 Rating, Add</i>	11,611.23	
40 05 19 00-0501	EA	42" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	44,889.08	3,357.64
		<i>For Class 52 Rating, Deduct</i>	-4,378.19	
		<i>For Class 54 Rating, Add</i>	6,031.31	
		<i>For Class 55 Rating, Add</i>	8,997.89	
		<i>For Class 56 Rating, Add</i>	11,924.66	
40 05 19 00-0502	EA	42" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	45,945.42	3,362.56
		<i>For Class 52 Rating, Deduct</i>	-4,493.57	
		<i>For Class 54 Rating, Add</i>	6,188.73	
		<i>For Class 55 Rating, Add</i>	9,231.96	
		<i>For Class 56 Rating, Add</i>	12,234.35	
40 05 19 00-0503	EA	42" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	47,010.19	3,367.49
		<i>For Class 52 Rating, Deduct</i>	-4,609.87	
		<i>For Class 54 Rating, Add</i>	6,347.42	
		<i>For Class 55 Rating, Add</i>	9,467.92	
		<i>For Class 56 Rating, Add</i>	12,546.52	
40 05 19 00-0504	EA	42" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	48,068.62	3,372.41
		<i>For Class 52 Rating, Deduct</i>	-4,725.48	
		<i>For Class 54 Rating, Add</i>	6,505.15	
		<i>For Class 55 Rating, Add</i>	9,702.47	
		<i>For Class 56 Rating, Add</i>	12,856.83	
40 05 19 00-0505	EA	42" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	48,913.48	3,377.33
		<i>For Class 52 Rating, Deduct</i>	-4,817.59	
		<i>For Class 54 Rating, Add</i>	6,630.85	
		<i>For Class 55 Rating, Add</i>	9,889.39	
		<i>For Class 56 Rating, Add</i>	13,104.13	
40 05 19 00-0506	EA	42" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	50,191.84	3,382.26
		<i>For Class 52 Rating, Deduct</i>	-4,957.39	
		<i>For Class 54 Rating, Add</i>	6,821.58	
		<i>For Class 55 Rating, Add</i>	10,172.98	
		<i>For Class 56 Rating, Add</i>	13,479.31	
40 05 19 00-0507	EA	42" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	51,248.15	3,387.17
		<i>For Class 52 Rating, Deduct</i>	-5,072.77	
		<i>For Class 54 Rating, Add</i>	6,979.00	
		<i>For Class 55 Rating, Add</i>	10,407.05	
		<i>For Class 56 Rating, Add</i>	13,789.00	
40 05 19 00-0508	EA	42" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	52,315.05	3,392.10
		<i>For Class 52 Rating, Deduct</i>	-5,189.31	
		<i>For Class 54 Rating, Add</i>	7,138.00	
		<i>For Class 55 Rating, Add</i>	10,643.49	
		<i>For Class 56 Rating, Add</i>	14,101.80	
40 05 19 00-0509	EA	42" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	53,371.37	3,397.03
		<i>For Class 52 Rating, Deduct</i>	-5,304.68	
		<i>For Class 54 Rating, Add</i>	7,295.42	
		<i>For Class 55 Rating, Add</i>	10,877.56	
		<i>For Class 56 Rating, Add</i>	14,411.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0510 EA 42" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	54,440.38	3,401.95
<i>For Class 52 Rating, Deduct</i>	-5,421.45	
<i>For Class 54 Rating, Add</i>	7,454.74	
<i>For Class 55 Rating, Add</i>	11,114.47	
<i>For Class 56 Rating, Add</i>	14,724.90	
40 05 19 00-0511 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	55,494.59	3,406.87
<i>For Class 52 Rating, Deduct</i>	-5,536.59	
<i>For Class 54 Rating, Add</i>	7,611.84	
<i>For Class 55 Rating, Add</i>	11,348.07	
<i>For Class 56 Rating, Add</i>	15,033.96	
40 05 19 00-0512 EA 42" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	56,563.59	3,411.79
<i>For Class 52 Rating, Deduct</i>	-5,653.36	
<i>For Class 54 Rating, Add</i>	7,771.16	
<i>For Class 55 Rating, Add</i>	11,584.97	
<i>For Class 56 Rating, Add</i>	15,347.39	
40 05 19 00-0513 EA 42" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	57,619.92	3,416.72
<i>For Class 52 Rating, Deduct</i>	-5,768.74	
<i>For Class 54 Rating, Add</i>	7,928.58	
<i>For Class 55 Rating, Add</i>	11,819.05	
<i>For Class 56 Rating, Add</i>	15,657.07	
40 05 19 00-0514 EA 42" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	58,686.81	3,421.64
<i>For Class 52 Rating, Deduct</i>	-5,885.28	
<i>For Class 54 Rating, Add</i>	8,087.59	
<i>For Class 55 Rating, Add</i>	12,055.48	
<i>For Class 56 Rating, Add</i>	15,969.88	
<b>40 05 19 00-0515 48" Flanged End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0002)</small>		
40 05 19 00-0516 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,337.94	4,071.51
<i>For Class 52 Rating, Deduct</i>	-1,998.59	
<i>For Class 54 Rating, Add</i>	2,799.38	
<i>For Class 55 Rating, Add</i>	4,199.74	
<i>For Class 56 Rating, Add</i>	5,581.93	
40 05 19 00-0517 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	25,891.20	4,076.43
<i>For Class 52 Rating, Deduct</i>	-2,168.63	
<i>For Class 54 Rating, Add</i>	3,031.34	
<i>For Class 55 Rating, Add</i>	4,544.63	
<i>For Class 56 Rating, Add</i>	6,038.21	
40 05 19 00-0518 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	27,442.35	4,081.35
<i>For Class 52 Rating, Deduct</i>	-2,338.43	
<i>For Class 54 Rating, Add</i>	3,262.98	
<i>For Class 55 Rating, Add</i>	4,889.05	
<i>For Class 56 Rating, Add</i>	6,493.87	
40 05 19 00-0519 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	29,006.18	4,086.28
<i>For Class 52 Rating, Deduct</i>	-2,509.63	
<i>For Class 54 Rating, Add</i>	3,496.52	
<i>For Class 55 Rating, Add</i>	5,236.30	
<i>For Class 56 Rating, Add</i>	6,953.27	
40 05 19 00-0520 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	30,559.43	4,091.20
<i>For Class 52 Rating, Deduct</i>	-2,679.67	
<i>For Class 54 Rating, Add</i>	3,728.48	
<i>For Class 55 Rating, Add</i>	5,581.20	
<i>For Class 56 Rating, Add</i>	7,409.55	
40 05 19 00-0521 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	32,112.70	4,096.12
<i>For Class 52 Rating, Deduct</i>	-2,849.71	
<i>For Class 54 Rating, Add</i>	3,960.44	
<i>For Class 55 Rating, Add</i>	5,926.09	
<i>For Class 56 Rating, Add</i>	7,865.83	
40 05 19 00-0522 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	33,674.42	4,101.04
<i>For Class 52 Rating, Deduct</i>	-3,020.68	
<i>For Class 54 Rating, Add</i>	4,193.67	
<i>For Class 55 Rating, Add</i>	6,272.87	
<i>For Class 56 Rating, Add</i>	8,324.61	
40 05 19 00-0523 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	35,229.80	4,105.97
<i>For Class 52 Rating, Deduct</i>	-3,190.95	
<i>For Class 54 Rating, Add</i>	4,425.95	
<i>For Class 55 Rating, Add</i>	6,618.23	
<i>For Class 56 Rating, Add</i>	8,781.51	
40 05 19 00-0524 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	36,780.95	4,110.90
<i>For Class 52 Rating, Deduct</i>	-3,360.76	
<i>For Class 54 Rating, Add</i>	4,657.59	
<i>For Class 55 Rating, Add</i>	6,962.65	
<i>For Class 56 Rating, Add</i>	9,237.17	
40 05 19 00-0525 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	38,344.77	4,115.81
<i>For Class 52 Rating, Deduct</i>	-3,531.96	
<i>For Class 54 Rating, Add</i>	4,891.14	
<i>For Class 55 Rating, Add</i>	7,309.90	
<i>For Class 56 Rating, Add</i>	9,696.56	
40 05 19 00-0526 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	39,898.05	4,120.74
<i>For Class 52 Rating, Deduct</i>	-3,702.00	
<i>For Class 54 Rating, Add</i>	5,123.10	
<i>For Class 55 Rating, Add</i>	7,654.80	
<i>For Class 56 Rating, Add</i>	10,152.85	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0527	EA	48" Flanged (FxF), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	41,461.87	4,125.66
		<i>For Class 52 Rating, Deduct</i>	-3,873.20	
		<i>For Class 54 Rating, Add</i>	5,356.64	
		<i>For Class 55 Rating, Add</i>	8,002.05	
		<i>For Class 56 Rating, Add</i>	10,612.24	
40 05 19 00-0528	EA	48" Flanged (FxF), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	43,013.02	4,130.59
		<i>For Class 52 Rating, Deduct</i>	-4,043.00	
		<i>For Class 54 Rating, Add</i>	5,588.29	
		<i>For Class 55 Rating, Add</i>	8,346.47	
		<i>For Class 56 Rating, Add</i>	11,067.90	
40 05 19 00-0529	EA	48" Flanged (FxF), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	44,566.28	4,135.51
		<i>For Class 52 Rating, Deduct</i>	-4,213.04	
		<i>For Class 54 Rating, Add</i>	5,820.25	
		<i>For Class 55 Rating, Add</i>	8,691.36	
		<i>For Class 56 Rating, Add</i>	11,524.18	
40 05 19 00-0530	EA	48" Flanged (FxF), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	46,130.11	4,140.43
		<i>For Class 52 Rating, Deduct</i>	-4,384.24	
		<i>For Class 54 Rating, Add</i>	6,053.79	
		<i>For Class 55 Rating, Add</i>	9,038.61	
		<i>For Class 56 Rating, Add</i>	11,983.58	
40 05 19 00-0531	EA	48" Flanged (FxF), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	47,683.38	4,145.36
		<i>For Class 52 Rating, Deduct</i>	-4,554.28	
		<i>For Class 54 Rating, Add</i>	6,285.75	
		<i>For Class 55 Rating, Add</i>	9,383.51	
		<i>For Class 56 Rating, Add</i>	12,439.86	
40 05 19 00-0532	EA	48" Flanged (FxF), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	49,234.52	4,150.27
		<i>For Class 52 Rating, Deduct</i>	-4,724.08	
		<i>For Class 54 Rating, Add</i>	6,517.39	
		<i>For Class 55 Rating, Add</i>	9,727.93	
		<i>For Class 56 Rating, Add</i>	12,895.51	
40 05 19 00-0533	EA	48" Flanged (FxF), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	50,798.36	4,155.20
		<i>For Class 52 Rating, Deduct</i>	-4,895.29	
		<i>For Class 54 Rating, Add</i>	6,750.94	
		<i>For Class 55 Rating, Add</i>	10,075.18	
		<i>For Class 56 Rating, Add</i>	13,354.91	
40 05 19 00-0534	EA	48" Flanged (FxF), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	52,351.62	4,160.13
		<i>For Class 52 Rating, Deduct</i>	-5,065.32	
		<i>For Class 54 Rating, Add</i>	6,982.90	
		<i>For Class 55 Rating, Add</i>	10,420.07	
		<i>For Class 56 Rating, Add</i>	13,811.19	
40 05 19 00-0535	EA	48" Flanged (FxF), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	53,902.77	4,165.05
		<i>For Class 52 Rating, Deduct</i>	-5,235.13	
		<i>For Class 54 Rating, Add</i>	7,214.54	
		<i>For Class 55 Rating, Add</i>	10,764.49	
		<i>For Class 56 Rating, Add</i>	14,266.85	
40 05 19 00-0536	EA	48" Flanged (FxF), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	55,466.59	4,169.97
		<i>For Class 52 Rating, Deduct</i>	-5,406.33	
		<i>For Class 54 Rating, Add</i>	7,448.09	
		<i>For Class 55 Rating, Add</i>	11,111.74	
		<i>For Class 56 Rating, Add</i>	14,726.25	
40 05 19 00-0537	EA	48" Flanged (FxF), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	57,021.98	4,174.89
		<i>For Class 52 Rating, Deduct</i>	-5,576.60	
		<i>For Class 54 Rating, Add</i>	7,680.36	
		<i>For Class 55 Rating, Add</i>	11,457.11	
		<i>For Class 56 Rating, Add</i>	15,183.15	
40 05 19 00-0538	EA	48" Flanged (FxF), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	58,573.12	4,179.82
		<i>For Class 52 Rating, Deduct</i>	-5,746.41	
		<i>For Class 54 Rating, Add</i>	7,912.01	
		<i>For Class 55 Rating, Add</i>	11,801.53	
		<i>For Class 56 Rating, Add</i>	15,638.81	
40 05 19 00-0539	EA	48" Flanged (FxF), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	60,136.96	4,184.74
		<i>For Class 52 Rating, Deduct</i>	-5,917.61	
		<i>For Class 54 Rating, Add</i>	8,145.55	
		<i>For Class 55 Rating, Add</i>	12,148.78	
		<i>For Class 56 Rating, Add</i>	16,098.21	
40 05 19 00-0540	EA	48" Flanged (FxF), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	61,690.22	4,189.66
		<i>For Class 52 Rating, Deduct</i>	-6,087.65	
		<i>For Class 54 Rating, Add</i>	8,377.51	
		<i>For Class 55 Rating, Add</i>	12,493.67	
		<i>For Class 56 Rating, Add</i>	16,554.49	
40 05 19 00-0541	EA	48" Flanged (FxF), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	63,241.36	4,194.59
		<i>For Class 52 Rating, Deduct</i>	-6,257.45	
		<i>For Class 54 Rating, Add</i>	8,609.15	
		<i>For Class 55 Rating, Add</i>	12,838.09	
		<i>For Class 56 Rating, Add</i>	17,010.14	
40 05 19 00-0542	EA	48" Flanged (FxF), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	64,805.21	4,199.51
		<i>For Class 52 Rating, Deduct</i>	-6,428.65	
		<i>For Class 54 Rating, Add</i>	8,842.70	
		<i>For Class 55 Rating, Add</i>	13,185.34	
		<i>For Class 56 Rating, Add</i>	17,469.55	
40 05 19 00-0543	EA	48" Flanged (FxF), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	66,358.46	4,204.43
		<i>For Class 52 Rating, Deduct</i>	-6,598.69	
		<i>For Class 54 Rating, Add</i>	9,074.66	
		<i>For Class 55 Rating, Add</i>	13,530.24	
		<i>For Class 56 Rating, Add</i>	17,925.83	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0544 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	67,721.40	4,209.35
For Class 52 Rating, Deduct	-6,747.79	
For Class 54 Rating, Add	9,278.07	
For Class 55 Rating, Add	13,832.69	
For Class 56 Rating, Add	18,325.96	
40 05 19 00-0545 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	69,475.55	4,214.28
For Class 52 Rating, Deduct	-6,939.93	
For Class 54 Rating, Add	9,540.17	
For Class 55 Rating, Add	14,222.38	
For Class 56 Rating, Add	18,841.50	
40 05 19 00-0546 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	71,026.70	4,219.21
For Class 52 Rating, Deduct	-7,109.74	
For Class 54 Rating, Add	9,771.81	
For Class 55 Rating, Add	14,566.80	
For Class 56 Rating, Add	19,297.16	
40 05 19 00-0547 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	72,592.66	4,224.12
For Class 52 Rating, Deduct	-7,281.17	
For Class 54 Rating, Add	10,005.67	
For Class 55 Rating, Add	14,914.52	
For Class 56 Rating, Add	19,757.18	
40 05 19 00-0548 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	74,143.80	4,229.05
For Class 52 Rating, Deduct	-7,450.98	
For Class 54 Rating, Add	10,237.31	
For Class 55 Rating, Add	15,258.95	
For Class 56 Rating, Add	20,212.84	
40 05 19 00-0549 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	75,694.95	4,233.97
For Class 52 Rating, Deduct	-7,620.78	
For Class 54 Rating, Add	10,468.96	
For Class 55 Rating, Add	15,603.37	
For Class 56 Rating, Add	20,668.50	
40 05 19 00-0550 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	77,260.90	4,238.90
For Class 52 Rating, Deduct	-7,792.22	
For Class 54 Rating, Add	10,702.82	
For Class 55 Rating, Add	15,951.09	
For Class 56 Rating, Add	21,128.52	
40 05 19 00-0551 EA 48" Flanged (FxF), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	78,812.04	4,243.82
For Class 52 Rating, Deduct	-7,962.02	
For Class 54 Rating, Add	10,934.46	
For Class 55 Rating, Add	16,295.51	
For Class 56 Rating, Add	21,584.17	
40 05 19 00-0552 EA 48" Flanged (FxF), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	80,365.29	4,248.74
For Class 52 Rating, Deduct	-8,132.06	
For Class 54 Rating, Add	11,166.42	
For Class 55 Rating, Add	16,640.40	
For Class 56 Rating, Add	22,040.45	
40 05 19 00-0553 EA 48" Flanged (FxF), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	81,929.14	4,253.67
For Class 52 Rating, Deduct	-8,303.26	
For Class 54 Rating, Add	11,399.97	
For Class 55 Rating, Add	16,987.65	
For Class 56 Rating, Add	22,499.85	
 40 05 19 00-0554 Flanged End x Grooved End (FxF), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0001)</small>		
 40 05 19 00-0555 4" Flanged End x Grooved End (FxF), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0556 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	700.84	225.29
For Class 52 Rating, Deduct	-39.54	
For Class 54 Rating, Add	58.02	
For Class 55 Rating, Add	88.36	
For Class 56 Rating, Add	118.34	
40 05 19 00-0557 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	761.78	229.23
For Class 52 Rating, Deduct	-45.59	
For Class 54 Rating, Add	66.34	
For Class 55 Rating, Add	100.76	
For Class 56 Rating, Add	134.77	
40 05 19 00-0558 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	822.73	233.17
For Class 52 Rating, Deduct	-51.64	
For Class 54 Rating, Add	74.66	
For Class 55 Rating, Add	113.17	
For Class 56 Rating, Add	151.21	
40 05 19 00-0559 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	883.68	237.11
For Class 52 Rating, Deduct	-57.69	
For Class 54 Rating, Add	82.98	
For Class 55 Rating, Add	125.57	
For Class 56 Rating, Add	167.64	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0560	EA		4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	944.62	241.04
			<i>For Class 52 Rating, Deduct</i>	-63.74	
			<i>For Class 54 Rating, Add</i>	91.29	
			<i>For Class 55 Rating, Add</i>	137.97	
			<i>For Class 56 Rating, Add</i>	184.07	
40 05 19 00-0561	EA		4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,005.57	244.98
			<i>For Class 52 Rating, Deduct</i>	-69.78	
			<i>For Class 54 Rating, Add</i>	99.61	
			<i>For Class 55 Rating, Add</i>	150.38	
			<i>For Class 56 Rating, Add</i>	200.51	
40 05 19 00-0562	EA		4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,066.52	248.92
			<i>For Class 52 Rating, Deduct</i>	-75.83	
			<i>For Class 54 Rating, Add</i>	107.93	
			<i>For Class 55 Rating, Add</i>	162.78	
			<i>For Class 56 Rating, Add</i>	216.94	
40 05 19 00-0563	EA		4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,127.46	252.86
			<i>For Class 52 Rating, Deduct</i>	-81.88	
			<i>For Class 54 Rating, Add</i>	116.25	
			<i>For Class 55 Rating, Add</i>	175.18	
			<i>For Class 56 Rating, Add</i>	233.38	
40 05 19 00-0564	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,188.41	256.80
			<i>For Class 52 Rating, Deduct</i>	-87.93	
			<i>For Class 54 Rating, Add</i>	124.57	
			<i>For Class 55 Rating, Add</i>	187.59	
			<i>For Class 56 Rating, Add</i>	249.81	
40 05 19 00-0565	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,249.36	260.74
			<i>For Class 52 Rating, Deduct</i>	-93.97	
			<i>For Class 54 Rating, Add</i>	132.89	
			<i>For Class 55 Rating, Add</i>	199.99	
			<i>For Class 56 Rating, Add</i>	266.24	
40 05 19 00-0566	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,310.32	264.67
			<i>For Class 52 Rating, Deduct</i>	-100.02	
			<i>For Class 54 Rating, Add</i>	141.21	
			<i>For Class 55 Rating, Add</i>	212.40	
			<i>For Class 56 Rating, Add</i>	282.68	
40 05 19 00-0567	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,371.26	268.61
			<i>For Class 52 Rating, Deduct</i>	-106.07	
			<i>For Class 54 Rating, Add</i>	149.53	
			<i>For Class 55 Rating, Add</i>	224.80	
			<i>For Class 56 Rating, Add</i>	299.11	
40 05 19 00-0568	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,432.21	272.56
			<i>For Class 52 Rating, Deduct</i>	-112.12	
			<i>For Class 54 Rating, Add</i>	157.84	
			<i>For Class 55 Rating, Add</i>	237.21	
			<i>For Class 56 Rating, Add</i>	315.55	
40 05 19 00-0569	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,493.16	276.49
			<i>For Class 52 Rating, Deduct</i>	-118.17	
			<i>For Class 54 Rating, Add</i>	166.16	
			<i>For Class 55 Rating, Add</i>	249.61	
			<i>For Class 56 Rating, Add</i>	331.98	
40 05 19 00-0570	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,554.11	280.43
			<i>For Class 52 Rating, Deduct</i>	-124.21	
			<i>For Class 54 Rating, Add</i>	174.48	
			<i>For Class 55 Rating, Add</i>	262.01	
			<i>For Class 56 Rating, Add</i>	348.42	
40 05 19 00-0571	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,615.06	284.37
			<i>For Class 52 Rating, Deduct</i>	-130.26	
			<i>For Class 54 Rating, Add</i>	182.80	
			<i>For Class 55 Rating, Add</i>	274.42	
			<i>For Class 56 Rating, Add</i>	364.85	
40 05 19 00-0572	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,676.01	288.30
			<i>For Class 52 Rating, Deduct</i>	-136.31	
			<i>For Class 54 Rating, Add</i>	191.12	
			<i>For Class 55 Rating, Add</i>	286.82	
			<i>For Class 56 Rating, Add</i>	381.28	
40 05 19 00-0573	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,736.95	292.24
			<i>For Class 52 Rating, Deduct</i>	-142.36	
			<i>For Class 54 Rating, Add</i>	199.44	
			<i>For Class 55 Rating, Add</i>	299.22	
			<i>For Class 56 Rating, Add</i>	397.72	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0574 EA 4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,797.90	296.19
<i>For Class 52 Rating, Deduct</i>	-148.41	
<i>For Class 54 Rating, Add</i>	207.76	
<i>For Class 55 Rating, Add</i>	311.63	
<i>For Class 56 Rating, Add</i>	414.15	
40 05 19 00-0575 EA 4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,858.85	300.12
<i>For Class 52 Rating, Deduct</i>	-154.45	
<i>For Class 54 Rating, Add</i>	216.07	
<i>For Class 55 Rating, Add</i>	324.03	
<i>For Class 56 Rating, Add</i>	430.59	
40 05 19 00-0576 EA 4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,919.80	304.06
<i>For Class 52 Rating, Deduct</i>	-160.50	
<i>For Class 54 Rating, Add</i>	224.39	
<i>For Class 55 Rating, Add</i>	336.44	
<i>For Class 56 Rating, Add</i>	447.02	
40 05 19 00-0577 EA 4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,980.74	308.00
<i>For Class 52 Rating, Deduct</i>	-166.55	
<i>For Class 54 Rating, Add</i>	232.71	
<i>For Class 55 Rating, Add</i>	348.84	
<i>For Class 56 Rating, Add</i>	463.45	
40 05 19 00-0578 EA 4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,041.69	311.93
<i>For Class 52 Rating, Deduct</i>	-172.60	
<i>For Class 54 Rating, Add</i>	241.03	
<i>For Class 55 Rating, Add</i>	361.24	
<i>For Class 56 Rating, Add</i>	479.89	
40 05 19 00-0579 EA 4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,102.64	315.88
<i>For Class 52 Rating, Deduct</i>	-178.64	
<i>For Class 54 Rating, Add</i>	249.35	
<i>For Class 55 Rating, Add</i>	373.65	
<i>For Class 56 Rating, Add</i>	496.32	
40 05 19 00-0580 EA 4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,163.58	319.82
<i>For Class 52 Rating, Deduct</i>	-184.69	
<i>For Class 54 Rating, Add</i>	257.67	
<i>For Class 55 Rating, Add</i>	386.05	
<i>For Class 56 Rating, Add</i>	512.76	
40 05 19 00-0581 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,224.53	323.75
<i>For Class 52 Rating, Deduct</i>	-190.74	
<i>For Class 54 Rating, Add</i>	265.99	
<i>For Class 55 Rating, Add</i>	398.45	
<i>For Class 56 Rating, Add</i>	529.19	
40 05 19 00-0582 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,285.49	327.69
<i>For Class 52 Rating, Deduct</i>	-196.79	
<i>For Class 54 Rating, Add</i>	274.31	
<i>For Class 55 Rating, Add</i>	410.86	
<i>For Class 56 Rating, Add</i>	545.63	
40 05 19 00-0583 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,346.43	331.63
<i>For Class 52 Rating, Deduct</i>	-202.84	
<i>For Class 54 Rating, Add</i>	282.63	
<i>For Class 55 Rating, Add</i>	423.26	
<i>For Class 56 Rating, Add</i>	562.06	
40 05 19 00-0584 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,407.38	335.57
<i>For Class 52 Rating, Deduct</i>	-208.88	
<i>For Class 54 Rating, Add</i>	290.94	
<i>For Class 55 Rating, Add</i>	435.67	
<i>For Class 56 Rating, Add</i>	578.49	
40 05 19 00-0585 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,468.33	339.51
<i>For Class 52 Rating, Deduct</i>	-214.93	
<i>For Class 54 Rating, Add</i>	299.26	
<i>For Class 55 Rating, Add</i>	448.07	
<i>For Class 56 Rating, Add</i>	594.93	
40 05 19 00-0586 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,529.28	343.45
<i>For Class 52 Rating, Deduct</i>	-220.98	
<i>For Class 54 Rating, Add</i>	307.58	
<i>For Class 55 Rating, Add</i>	460.48	
<i>For Class 56 Rating, Add</i>	611.36	
40 05 19 00-0587 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,590.22	347.39
<i>For Class 52 Rating, Deduct</i>	-227.03	
<i>For Class 54 Rating, Add</i>	315.90	
<i>For Class 55 Rating, Add</i>	472.88	
<i>For Class 56 Rating, Add</i>	627.80	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0588	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,651.18	351.32
			<i>For Class 52 Rating, Deduct</i>	-233.08	
			<i>For Class 54 Rating, Add</i>	324.22	
			<i>For Class 55 Rating, Add</i>	485.28	
			<i>For Class 56 Rating, Add</i>	644.23	
40 05 19 00-0589	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,712.13	355.26
			<i>For Class 52 Rating, Deduct</i>	-239.12	
			<i>For Class 54 Rating, Add</i>	332.54	
			<i>For Class 55 Rating, Add</i>	497.69	
			<i>For Class 56 Rating, Add</i>	660.66	
40 05 19 00-0590	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,773.07	359.21
			<i>For Class 52 Rating, Deduct</i>	-245.17	
			<i>For Class 54 Rating, Add</i>	340.86	
			<i>For Class 55 Rating, Add</i>	510.09	
			<i>For Class 56 Rating, Add</i>	677.10	
40 05 19 00-0591	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,834.02	363.14
			<i>For Class 52 Rating, Deduct</i>	-251.22	
			<i>For Class 54 Rating, Add</i>	349.17	
			<i>For Class 55 Rating, Add</i>	522.49	
			<i>For Class 56 Rating, Add</i>	693.53	
40 05 19 00-0592	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,894.97	367.08
			<i>For Class 52 Rating, Deduct</i>	-257.27	
			<i>For Class 54 Rating, Add</i>	357.49	
			<i>For Class 55 Rating, Add</i>	534.90	
			<i>For Class 56 Rating, Add</i>	709.97	
40 05 19 00-0593	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,955.91	371.02
			<i>For Class 52 Rating, Deduct</i>	-263.31	
			<i>For Class 54 Rating, Add</i>	365.81	
			<i>For Class 55 Rating, Add</i>	547.30	
			<i>For Class 56 Rating, Add</i>	726.40	
40 05 19 00-0594	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,016.86	374.95
			<i>For Class 52 Rating, Deduct</i>	-269.36	
			<i>For Class 54 Rating, Add</i>	374.13	
			<i>For Class 55 Rating, Add</i>	559.71	
			<i>For Class 56 Rating, Add</i>	742.83	

**40 05 19 00-0595 6" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe**

(40 05 19 00-0594)

40 05 19 00-0596	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	875.86	283.58
			<i>For Class 52 Rating, Deduct</i>	-49.08	
			<i>For Class 54 Rating, Add</i>	72.08	
			<i>For Class 55 Rating, Add</i>	109.81	
			<i>For Class 56 Rating, Add</i>	147.09	
40 05 19 00-0597	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	949.49	287.51
			<i>For Class 52 Rating, Deduct</i>	-56.52	
			<i>For Class 54 Rating, Add</i>	82.31	
			<i>For Class 55 Rating, Add</i>	125.05	
			<i>For Class 56 Rating, Add</i>	167.27	
40 05 19 00-0598	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,023.13	291.46
			<i>For Class 52 Rating, Deduct</i>	-63.97	
			<i>For Class 54 Rating, Add</i>	92.53	
			<i>For Class 55 Rating, Add</i>	140.28	
			<i>For Class 56 Rating, Add</i>	187.45	
40 05 19 00-0599	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,096.76	295.40
			<i>For Class 52 Rating, Deduct</i>	-71.41	
			<i>For Class 54 Rating, Add</i>	102.75	
			<i>For Class 55 Rating, Add</i>	155.51	
			<i>For Class 56 Rating, Add</i>	207.62	
40 05 19 00-0600	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,170.39	299.33
			<i>For Class 52 Rating, Deduct</i>	-78.85	
			<i>For Class 54 Rating, Add</i>	112.97	
			<i>For Class 55 Rating, Add</i>	170.74	
			<i>For Class 56 Rating, Add</i>	227.80	
40 05 19 00-0601	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,244.03	303.27
			<i>For Class 52 Rating, Deduct</i>	-86.30	
			<i>For Class 54 Rating, Add</i>	123.19	
			<i>For Class 55 Rating, Add</i>	185.98	
			<i>For Class 56 Rating, Add</i>	247.98	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0602 EA 6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,317.67	307.21
<i>For Class 52 Rating, Deduct</i>	-93.74	
<i>For Class 54 Rating, Add</i>	133.42	
<i>For Class 55 Rating, Add</i>	201.21	
<i>For Class 56 Rating, Add</i>	268.16	
40 05 19 00-0603 EA 6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,391.30	311.14
<i>For Class 52 Rating, Deduct</i>	-101.19	
<i>For Class 54 Rating, Add</i>	143.64	
<i>For Class 55 Rating, Add</i>	216.45	
<i>For Class 56 Rating, Add</i>	288.33	
40 05 19 00-0604 EA 6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,464.94	315.09
<i>For Class 52 Rating, Deduct</i>	-108.63	
<i>For Class 54 Rating, Add</i>	153.86	
<i>For Class 55 Rating, Add</i>	231.68	
<i>For Class 56 Rating, Add</i>	308.51	
40 05 19 00-0605 EA 6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,538.58	319.03
<i>For Class 52 Rating, Deduct</i>	-116.07	
<i>For Class 54 Rating, Add</i>	164.08	
<i>For Class 55 Rating, Add</i>	246.91	
<i>For Class 56 Rating, Add</i>	328.69	
40 05 19 00-0606 EA 6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,612.21	322.96
<i>For Class 52 Rating, Deduct</i>	-123.52	
<i>For Class 54 Rating, Add</i>	174.30	
<i>For Class 55 Rating, Add</i>	262.14	
<i>For Class 56 Rating, Add</i>	348.86	
40 05 19 00-0607 EA 6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,685.84	326.90
<i>For Class 52 Rating, Deduct</i>	-130.96	
<i>For Class 54 Rating, Add</i>	184.52	
<i>For Class 55 Rating, Add</i>	277.38	
<i>For Class 56 Rating, Add</i>	369.04	
40 05 19 00-0608 EA 6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,759.48	330.84
<i>For Class 52 Rating, Deduct</i>	-138.40	
<i>For Class 54 Rating, Add</i>	194.75	
<i>For Class 55 Rating, Add</i>	292.61	
<i>For Class 56 Rating, Add</i>	389.22	
40 05 19 00-0609 EA 6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,833.12	334.78
<i>For Class 52 Rating, Deduct</i>	-145.85	
<i>For Class 54 Rating, Add</i>	204.97	
<i>For Class 55 Rating, Add</i>	307.85	
<i>For Class 56 Rating, Add</i>	409.40	
40 05 19 00-0610 EA 6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,906.76	338.72
<i>For Class 52 Rating, Deduct</i>	-153.29	
<i>For Class 54 Rating, Add</i>	215.19	
<i>For Class 55 Rating, Add</i>	323.08	
<i>For Class 56 Rating, Add</i>	429.57	
40 05 19 00-0611 EA 6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,980.40	342.66
<i>For Class 52 Rating, Deduct</i>	-160.73	
<i>For Class 54 Rating, Add</i>	225.41	
<i>For Class 55 Rating, Add</i>	338.31	
<i>For Class 56 Rating, Add</i>	449.75	
40 05 19 00-0612 EA 6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,054.03	346.59
<i>For Class 52 Rating, Deduct</i>	-168.18	
<i>For Class 54 Rating, Add</i>	235.63	
<i>For Class 55 Rating, Add</i>	353.54	
<i>For Class 56 Rating, Add</i>	469.93	
40 05 19 00-0613 EA 6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,127.66	350.53
<i>For Class 52 Rating, Deduct</i>	-175.62	
<i>For Class 54 Rating, Add</i>	245.86	
<i>For Class 55 Rating, Add</i>	368.78	
<i>For Class 56 Rating, Add</i>	490.10	
40 05 19 00-0614 EA 6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,201.30	354.47
<i>For Class 52 Rating, Deduct</i>	-183.06	
<i>For Class 54 Rating, Add</i>	256.08	
<i>For Class 55 Rating, Add</i>	384.01	
<i>For Class 56 Rating, Add</i>	510.28	
40 05 19 00-0615 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,274.94	358.41
<i>For Class 52 Rating, Deduct</i>	-190.51	
<i>For Class 54 Rating, Add</i>	266.30	
<i>For Class 55 Rating, Add</i>	399.24	
<i>For Class 56 Rating, Add</i>	530.46	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0616	EA		6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,348.58	362.35
			<i>For Class 52 Rating, Deduct</i>	-197.95	
			<i>For Class 54 Rating, Add</i>	276.52	
			<i>For Class 55 Rating, Add</i>	414.48	
			<i>For Class 56 Rating, Add</i>	550.63	
40 05 19 00-0617	EA		6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,422.21	366.29
			<i>For Class 52 Rating, Deduct</i>	-205.40	
			<i>For Class 54 Rating, Add</i>	286.74	
			<i>For Class 55 Rating, Add</i>	429.71	
			<i>For Class 56 Rating, Add</i>	570.81	
40 05 19 00-0618	EA		6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,495.85	370.22
			<i>For Class 52 Rating, Deduct</i>	-212.84	
			<i>For Class 54 Rating, Add</i>	296.97	
			<i>For Class 55 Rating, Add</i>	444.95	
			<i>For Class 56 Rating, Add</i>	590.99	
40 05 19 00-0619	EA		6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,569.48	374.16
			<i>For Class 52 Rating, Deduct</i>	-220.28	
			<i>For Class 54 Rating, Add</i>	307.19	
			<i>For Class 55 Rating, Add</i>	460.18	
			<i>For Class 56 Rating, Add</i>	611.16	
40 05 19 00-0620	EA		6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,643.11	378.11
			<i>For Class 52 Rating, Deduct</i>	-227.73	
			<i>For Class 54 Rating, Add</i>	317.41	
			<i>For Class 55 Rating, Add</i>	475.41	
			<i>For Class 56 Rating, Add</i>	631.34	
40 05 19 00-0621	EA		6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,716.75	382.04
			<i>For Class 52 Rating, Deduct</i>	-235.17	
			<i>For Class 54 Rating, Add</i>	327.63	
			<i>For Class 55 Rating, Add</i>	490.64	
			<i>For Class 56 Rating, Add</i>	651.52	
40 05 19 00-0622	EA		6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,790.39	385.98
			<i>For Class 52 Rating, Deduct</i>	-242.61	
			<i>For Class 54 Rating, Add</i>	337.85	
			<i>For Class 55 Rating, Add</i>	505.88	
			<i>For Class 56 Rating, Add</i>	671.70	
40 05 19 00-0623	EA		6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,864.02	389.92
			<i>For Class 52 Rating, Deduct</i>	-250.06	
			<i>For Class 54 Rating, Add</i>	348.08	
			<i>For Class 55 Rating, Add</i>	521.11	
			<i>For Class 56 Rating, Add</i>	691.87	
40 05 19 00-0624	EA		6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,937.66	393.85
			<i>For Class 52 Rating, Deduct</i>	-257.50	
			<i>For Class 54 Rating, Add</i>	358.30	
			<i>For Class 55 Rating, Add</i>	536.34	
			<i>For Class 56 Rating, Add</i>	712.05	
40 05 19 00-0625	EA		6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,011.30	397.79
			<i>For Class 52 Rating, Deduct</i>	-264.94	
			<i>For Class 54 Rating, Add</i>	368.52	
			<i>For Class 55 Rating, Add</i>	551.58	
			<i>For Class 56 Rating, Add</i>	732.23	
40 05 19 00-0626	EA		6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,084.93	401.74
			<i>For Class 52 Rating, Deduct</i>	-272.39	
			<i>For Class 54 Rating, Add</i>	378.74	
			<i>For Class 55 Rating, Add</i>	566.81	
			<i>For Class 56 Rating, Add</i>	752.40	
40 05 19 00-0627	EA		6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,158.56	405.67
			<i>For Class 52 Rating, Deduct</i>	-279.83	
			<i>For Class 54 Rating, Add</i>	388.96	
			<i>For Class 55 Rating, Add</i>	582.04	
			<i>For Class 56 Rating, Add</i>	772.58	
40 05 19 00-0628	EA		6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,232.20	409.61
			<i>For Class 52 Rating, Deduct</i>	-287.27	
			<i>For Class 54 Rating, Add</i>	399.18	
			<i>For Class 55 Rating, Add</i>	597.28	
			<i>For Class 56 Rating, Add</i>	792.76	
40 05 19 00-0629	EA		6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,305.85	413.55
			<i>For Class 52 Rating, Deduct</i>	-294.72	
			<i>For Class 54 Rating, Add</i>	409.41	
			<i>For Class 55 Rating, Add</i>	612.51	
			<i>For Class 56 Rating, Add</i>	812.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0630 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,379.48	417.49
For Class 52 Rating, Deduct	-302.16	
For Class 54 Rating, Add	419.63	
For Class 55 Rating, Add	627.74	
For Class 56 Rating, Add	833.11	
40 05 19 00-0631 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,453.12	421.43
For Class 52 Rating, Deduct	-309.60	
For Class 54 Rating, Add	429.85	
For Class 55 Rating, Add	642.98	
For Class 56 Rating, Add	853.29	
40 05 19 00-0632 EA 6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,526.75	425.37
For Class 52 Rating, Deduct	-317.05	
For Class 54 Rating, Add	440.07	
For Class 55 Rating, Add	658.21	
For Class 56 Rating, Add	873.47	
40 05 19 00-0633 EA 6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,600.38	429.31
For Class 52 Rating, Deduct	-324.49	
For Class 54 Rating, Add	450.29	
For Class 55 Rating, Add	673.44	
For Class 56 Rating, Add	893.64	
40 05 19 00-0634 EA 6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,674.02	433.24
For Class 52 Rating, Deduct	-331.93	
For Class 54 Rating, Add	460.52	
For Class 55 Rating, Add	688.68	
For Class 56 Rating, Add	913.82	
<b>40 05 19 00-0635 8" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0554)</small>		
40 05 19 00-0636 EA 8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,200.33	362.35
For Class 52 Rating, Deduct	-71.64	
For Class 54 Rating, Add	104.28	
For Class 55 Rating, Add	158.42	
For Class 56 Rating, Add	211.90	
40 05 19 00-0637 EA 8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,299.33	366.29
For Class 52 Rating, Deduct	-81.88	
For Class 54 Rating, Add	118.31	
For Class 55 Rating, Add	179.31	
For Class 56 Rating, Add	239.56	
40 05 19 00-0638 EA 8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,398.35	370.22
For Class 52 Rating, Deduct	-92.11	
For Class 54 Rating, Add	132.34	
For Class 55 Rating, Add	200.20	
For Class 56 Rating, Add	267.23	
40 05 19 00-0639 EA 8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,497.36	374.16
For Class 52 Rating, Deduct	-102.35	
For Class 54 Rating, Add	146.37	
For Class 55 Rating, Add	221.09	
For Class 56 Rating, Add	294.89	
40 05 19 00-0640 EA 8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,596.37	378.11
For Class 52 Rating, Deduct	-112.58	
For Class 54 Rating, Add	160.40	
For Class 55 Rating, Add	241.99	
For Class 56 Rating, Add	322.55	
40 05 19 00-0641 EA 8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,695.38	382.04
For Class 52 Rating, Deduct	-122.82	
For Class 54 Rating, Add	174.43	
For Class 55 Rating, Add	262.88	
For Class 56 Rating, Add	350.21	
40 05 19 00-0642 EA 8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,794.39	385.98
For Class 52 Rating, Deduct	-133.05	
For Class 54 Rating, Add	188.45	
For Class 55 Rating, Add	283.77	
For Class 56 Rating, Add	377.88	
40 05 19 00-0643 EA 8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,893.40	389.92
For Class 52 Rating, Deduct	-143.29	
For Class 54 Rating, Add	202.48	
For Class 55 Rating, Add	304.66	
For Class 56 Rating, Add	405.54	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0644	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,992.41	393.85
			<i>For Class 52 Rating, Deduct</i>	-153.52	
			<i>For Class 54 Rating, Add</i>	216.51	
			<i>For Class 55 Rating, Add</i>	325.55	
			<i>For Class 56 Rating, Add</i>	433.20	
40 05 19 00-0645	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,091.43	397.79
			<i>For Class 52 Rating, Deduct</i>	-163.76	
			<i>For Class 54 Rating, Add</i>	230.54	
			<i>For Class 55 Rating, Add</i>	346.45	
			<i>For Class 56 Rating, Add</i>	460.87	
40 05 19 00-0646	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,190.44	401.74
			<i>For Class 52 Rating, Deduct</i>	-173.99	
			<i>For Class 54 Rating, Add</i>	244.57	
			<i>For Class 55 Rating, Add</i>	367.34	
			<i>For Class 56 Rating, Add</i>	488.53	
40 05 19 00-0647	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,289.44	405.67
			<i>For Class 52 Rating, Deduct</i>	-184.23	
			<i>For Class 54 Rating, Add</i>	258.59	
			<i>For Class 55 Rating, Add</i>	388.23	
			<i>For Class 56 Rating, Add</i>	516.19	
40 05 19 00-0648	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,388.46	409.61
			<i>For Class 52 Rating, Deduct</i>	-194.46	
			<i>For Class 54 Rating, Add</i>	272.62	
			<i>For Class 55 Rating, Add</i>	409.12	
			<i>For Class 56 Rating, Add</i>	543.86	
40 05 19 00-0649	EA		8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,487.48	413.55
			<i>For Class 52 Rating, Deduct</i>	-204.70	
			<i>For Class 54 Rating, Add</i>	286.65	
			<i>For Class 55 Rating, Add</i>	430.01	
			<i>For Class 56 Rating, Add</i>	571.52	
40 05 19 00-0650	EA		8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,586.49	417.49
			<i>For Class 52 Rating, Deduct</i>	-214.93	
			<i>For Class 54 Rating, Add</i>	300.68	
			<i>For Class 55 Rating, Add</i>	450.91	
			<i>For Class 56 Rating, Add</i>	599.18	
40 05 19 00-0651	EA		8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,685.50	421.43
			<i>For Class 52 Rating, Deduct</i>	-225.17	
			<i>For Class 54 Rating, Add</i>	314.71	
			<i>For Class 55 Rating, Add</i>	471.80	
			<i>For Class 56 Rating, Add</i>	626.84	
40 05 19 00-0652	EA		8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,784.52	425.37
			<i>For Class 52 Rating, Deduct</i>	-235.40	
			<i>For Class 54 Rating, Add</i>	328.74	
			<i>For Class 55 Rating, Add</i>	492.69	
			<i>For Class 56 Rating, Add</i>	654.51	
40 05 19 00-0653	EA		8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,883.52	429.31
			<i>For Class 52 Rating, Deduct</i>	-245.64	
			<i>For Class 54 Rating, Add</i>	342.76	
			<i>For Class 55 Rating, Add</i>	513.58	
			<i>For Class 56 Rating, Add</i>	682.17	
40 05 19 00-0654	EA		8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,982.53	433.24
			<i>For Class 52 Rating, Deduct</i>	-255.87	
			<i>For Class 54 Rating, Add</i>	356.79	
			<i>For Class 55 Rating, Add</i>	534.47	
			<i>For Class 56 Rating, Add</i>	709.83	
40 05 19 00-0655	EA		8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,081.55	437.18
			<i>For Class 52 Rating, Deduct</i>	-266.11	
			<i>For Class 54 Rating, Add</i>	370.82	
			<i>For Class 55 Rating, Add</i>	555.37	
			<i>For Class 56 Rating, Add</i>	737.50	
40 05 19 00-0656	EA		8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,180.56	441.13
			<i>For Class 52 Rating, Deduct</i>	-276.34	
			<i>For Class 54 Rating, Add</i>	384.85	
			<i>For Class 55 Rating, Add</i>	576.26	
			<i>For Class 56 Rating, Add</i>	765.16	
40 05 19 00-0657	EA		8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,279.57	445.06
			<i>For Class 52 Rating, Deduct</i>	-286.58	
			<i>For Class 54 Rating, Add</i>	398.88	
			<i>For Class 55 Rating, Add</i>	597.15	
			<i>For Class 56 Rating, Add</i>	792.82	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	<b>40</b>
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0658 EA 8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,378.58	449.00
For Class 52 Rating, Deduct	-296.81	
For Class 54 Rating, Add	412.91	
For Class 55 Rating, Add	618.04	
For Class 56 Rating, Add	820.48	
40 05 19 00-0659 EA 8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,477.59	452.94
For Class 52 Rating, Deduct	-307.05	
For Class 54 Rating, Add	426.93	
For Class 55 Rating, Add	638.93	
For Class 56 Rating, Add	848.15	
40 05 19 00-0660 EA 8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,576.60	456.87
For Class 52 Rating, Deduct	-317.28	
For Class 54 Rating, Add	440.96	
For Class 55 Rating, Add	659.83	
For Class 56 Rating, Add	875.81	
40 05 19 00-0661 EA 8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,675.61	460.81
For Class 52 Rating, Deduct	-327.52	
For Class 54 Rating, Add	454.99	
For Class 55 Rating, Add	680.72	
For Class 56 Rating, Add	903.47	
40 05 19 00-0662 EA 8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,774.63	464.76
For Class 52 Rating, Deduct	-337.75	
For Class 54 Rating, Add	469.02	
For Class 55 Rating, Add	701.61	
For Class 56 Rating, Add	931.14	
40 05 19 00-0663 EA 8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,873.64	468.69
For Class 52 Rating, Deduct	-347.99	
For Class 54 Rating, Add	483.05	
For Class 55 Rating, Add	722.50	
For Class 56 Rating, Add	958.80	
40 05 19 00-0664 EA 8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,972.65	472.63
For Class 52 Rating, Deduct	-358.22	
For Class 54 Rating, Add	497.08	
For Class 55 Rating, Add	743.40	
For Class 56 Rating, Add	986.46	
40 05 19 00-0665 EA 8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,071.66	476.57
For Class 52 Rating, Deduct	-368.45	
For Class 54 Rating, Add	511.10	
For Class 55 Rating, Add	764.29	
For Class 56 Rating, Add	1,014.12	
40 05 19 00-0666 EA 8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,170.67	480.50
For Class 52 Rating, Deduct	-378.69	
For Class 54 Rating, Add	525.13	
For Class 55 Rating, Add	785.18	
For Class 56 Rating, Add	1,041.79	
40 05 19 00-0667 EA 8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,269.68	484.45
For Class 52 Rating, Deduct	-388.92	
For Class 54 Rating, Add	539.16	
For Class 55 Rating, Add	806.07	
For Class 56 Rating, Add	1,069.45	
40 05 19 00-0668 EA 8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,368.70	488.39
For Class 52 Rating, Deduct	-399.16	
For Class 54 Rating, Add	553.19	
For Class 55 Rating, Add	826.96	
For Class 56 Rating, Add	1,097.11	
40 05 19 00-0669 EA 8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,467.72	492.32
For Class 52 Rating, Deduct	-409.39	
For Class 54 Rating, Add	567.22	
For Class 55 Rating, Add	847.86	
For Class 56 Rating, Add	1,124.78	
40 05 19 00-0670 EA 8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,566.72	496.26
For Class 52 Rating, Deduct	-419.63	
For Class 54 Rating, Add	581.24	
For Class 55 Rating, Add	868.75	
For Class 56 Rating, Add	1,152.44	
40 05 19 00-0671 EA 8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,665.73	500.20
For Class 52 Rating, Deduct	-429.86	
For Class 54 Rating, Add	595.27	
For Class 55 Rating, Add	889.64	
For Class 56 Rating, Add	1,180.10	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0672	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,764.75	504.13
			<i>For Class 52 Rating, Deduct</i>	-440.10	
			<i>For Class 54 Rating, Add</i>	609.30	
			<i>For Class 55 Rating, Add</i>	910.53	
			<i>For Class 56 Rating, Add</i>	1,207.76	
40 05 19 00-0673	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,863.76	508.08
			<i>For Class 52 Rating, Deduct</i>	-450.33	
			<i>For Class 54 Rating, Add</i>	623.33	
			<i>For Class 55 Rating, Add</i>	931.42	
			<i>For Class 56 Rating, Add</i>	1,235.43	
40 05 19 00-0674	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,962.77	512.02
			<i>For Class 52 Rating, Deduct</i>	-460.57	
			<i>For Class 54 Rating, Add</i>	637.36	
			<i>For Class 55 Rating, Add</i>	952.32	
			<i>For Class 56 Rating, Add</i>	1,263.09	
<b>40 05 19 00-0675 10" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)</b>					
40 05 19 00-0676	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,501.54	441.13
			<i>For Class 52 Rating, Deduct</i>	-91.65	
			<i>For Class 54 Rating, Add</i>	133.00	
			<i>For Class 55 Rating, Add</i>	201.84	
			<i>For Class 56 Rating, Add</i>	269.85	
40 05 19 00-0677	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,630.15	445.06
			<i>For Class 52 Rating, Deduct</i>	-105.14	
			<i>For Class 54 Rating, Add</i>	151.46	
			<i>For Class 55 Rating, Add</i>	229.33	
			<i>For Class 56 Rating, Add</i>	306.24	
40 05 19 00-0678	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,758.77	449.00
			<i>For Class 52 Rating, Deduct</i>	-118.63	
			<i>For Class 54 Rating, Add</i>	169.93	
			<i>For Class 55 Rating, Add</i>	256.83	
			<i>For Class 56 Rating, Add</i>	342.64	
40 05 19 00-0679	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,887.39	452.94
			<i>For Class 52 Rating, Deduct</i>	-132.12	
			<i>For Class 54 Rating, Add</i>	188.40	
			<i>For Class 55 Rating, Add</i>	284.32	
			<i>For Class 56 Rating, Add</i>	379.04	
40 05 19 00-0680	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,015.99	456.87
			<i>For Class 52 Rating, Deduct</i>	-145.61	
			<i>For Class 54 Rating, Add</i>	206.87	
			<i>For Class 55 Rating, Add</i>	311.81	
			<i>For Class 56 Rating, Add</i>	415.43	
40 05 19 00-0681	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,144.61	460.81
			<i>For Class 52 Rating, Deduct</i>	-159.11	
			<i>For Class 54 Rating, Add</i>	225.34	
			<i>For Class 55 Rating, Add</i>	339.31	
			<i>For Class 56 Rating, Add</i>	451.83	
40 05 19 00-0682	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,273.23	464.76
			<i>For Class 52 Rating, Deduct</i>	-172.60	
			<i>For Class 54 Rating, Add</i>	243.81	
			<i>For Class 55 Rating, Add</i>	366.80	
			<i>For Class 56 Rating, Add</i>	488.22	
40 05 19 00-0683	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,401.85	468.69
			<i>For Class 52 Rating, Deduct</i>	-186.09	
			<i>For Class 54 Rating, Add</i>	262.28	
			<i>For Class 55 Rating, Add</i>	394.29	
			<i>For Class 56 Rating, Add</i>	524.62	
40 05 19 00-0684	EA		10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,530.46	472.63
			<i>For Class 52 Rating, Deduct</i>	-199.58	
			<i>For Class 54 Rating, Add</i>	280.75	
			<i>For Class 55 Rating, Add</i>	421.79	
			<i>For Class 56 Rating, Add</i>	561.02	
40 05 19 00-0685	EA		10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,659.08	476.57
			<i>For Class 52 Rating, Deduct</i>	-213.07	
			<i>For Class 54 Rating, Add</i>	299.22	
			<i>For Class 55 Rating, Add</i>	449.28	
			<i>For Class 56 Rating, Add</i>	597.41	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0686 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	2,787.70	480.50
For Class 52 Rating, Deduct	-226.56	
For Class 54 Rating, Add	317.69	
For Class 55 Rating, Add	476.78	
For Class 56 Rating, Add	633.81	
40 05 19 00-0687 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	2,916.31	484.45
For Class 52 Rating, Deduct	-240.05	
For Class 54 Rating, Add	336.15	
For Class 55 Rating, Add	504.27	
For Class 56 Rating, Add	670.21	
40 05 19 00-0688 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,044.94	488.39
For Class 52 Rating, Deduct	-253.55	
For Class 54 Rating, Add	354.62	
For Class 55 Rating, Add	531.77	
For Class 56 Rating, Add	706.60	
40 05 19 00-0689 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,173.56	492.32
For Class 52 Rating, Deduct	-267.04	
For Class 54 Rating, Add	373.09	
For Class 55 Rating, Add	559.26	
For Class 56 Rating, Add	743.00	
40 05 19 00-0690 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,302.17	496.26
For Class 52 Rating, Deduct	-280.53	
For Class 54 Rating, Add	391.56	
For Class 55 Rating, Add	586.75	
For Class 56 Rating, Add	779.40	
40 05 19 00-0691 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,430.78	500.20
For Class 52 Rating, Deduct	-294.02	
For Class 54 Rating, Add	410.03	
For Class 55 Rating, Add	614.25	
For Class 56 Rating, Add	815.79	
40 05 19 00-0692 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,559.40	504.13
For Class 52 Rating, Deduct	-307.51	
For Class 54 Rating, Add	428.50	
For Class 55 Rating, Add	641.74	
For Class 56 Rating, Add	852.19	
40 05 19 00-0693 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,688.02	508.08
For Class 52 Rating, Deduct	-321.00	
For Class 54 Rating, Add	446.97	
For Class 55 Rating, Add	669.23	
For Class 56 Rating, Add	888.58	
40 05 19 00-0694 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,816.63	512.02
For Class 52 Rating, Deduct	-334.49	
For Class 54 Rating, Add	465.44	
For Class 55 Rating, Add	696.73	
For Class 56 Rating, Add	924.98	
40 05 19 00-0695 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	3,945.25	515.95
For Class 52 Rating, Deduct	-347.99	
For Class 54 Rating, Add	483.91	
For Class 55 Rating, Add	724.22	
For Class 56 Rating, Add	961.38	
40 05 19 00-0696 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,073.87	519.89
For Class 52 Rating, Deduct	-361.48	
For Class 54 Rating, Add	502.38	
For Class 55 Rating, Add	751.72	
For Class 56 Rating, Add	997.77	
40 05 19 00-0697 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,202.48	523.83
For Class 52 Rating, Deduct	-374.97	
For Class 54 Rating, Add	520.84	
For Class 55 Rating, Add	779.21	
For Class 56 Rating, Add	1,034.17	
40 05 19 00-0698 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,331.10	527.77
For Class 52 Rating, Deduct	-388.46	
For Class 54 Rating, Add	539.31	
For Class 55 Rating, Add	806.70	
For Class 56 Rating, Add	1,070.57	
40 05 19 00-0699 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	4,459.72	531.71
For Class 52 Rating, Deduct	-401.95	
For Class 54 Rating, Add	557.78	
For Class 55 Rating, Add	834.20	
For Class 56 Rating, Add	1,106.96	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0700	EA		10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,588.33	535.65
			<i>For Class 52 Rating, Deduct</i> .....	-415.44	
			<i>For Class 54 Rating, Add</i> .....	576.25	
			<i>For Class 55 Rating, Add</i> .....	861.69	
			<i>For Class 56 Rating, Add</i> .....	1,143.36	
40 05 19 00-0701	EA		10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,716.95	539.58
			<i>For Class 52 Rating, Deduct</i> .....	-428.93	
			<i>For Class 54 Rating, Add</i> .....	594.72	
			<i>For Class 55 Rating, Add</i> .....	889.19	
			<i>For Class 56 Rating, Add</i> .....	1,179.75	
40 05 19 00-0702	EA		10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,845.57	543.52
			<i>For Class 52 Rating, Deduct</i> .....	-442.43	
			<i>For Class 54 Rating, Add</i> .....	613.19	
			<i>For Class 55 Rating, Add</i> .....	916.68	
			<i>For Class 56 Rating, Add</i> .....	1,216.15	
40 05 19 00-0703	EA		10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,974.18	547.46
			<i>For Class 52 Rating, Deduct</i> .....	-455.92	
			<i>For Class 54 Rating, Add</i> .....	631.66	
			<i>For Class 55 Rating, Add</i> .....	944.17	
			<i>For Class 56 Rating, Add</i> .....	1,252.55	
40 05 19 00-0704	EA		10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,102.79	551.40
			<i>For Class 52 Rating, Deduct</i> .....	-469.41	
			<i>For Class 54 Rating, Add</i> .....	650.13	
			<i>For Class 55 Rating, Add</i> .....	971.67	
			<i>For Class 56 Rating, Add</i> .....	1,288.94	
40 05 19 00-0705	EA		10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,231.41	555.34
			<i>For Class 52 Rating, Deduct</i> .....	-482.90	
			<i>For Class 54 Rating, Add</i> .....	668.60	
			<i>For Class 55 Rating, Add</i> .....	999.16	
			<i>For Class 56 Rating, Add</i> .....	1,325.34	
40 05 19 00-0706	EA		10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,360.03	559.28
			<i>For Class 52 Rating, Deduct</i> .....	-496.39	
			<i>For Class 54 Rating, Add</i> .....	687.06	
			<i>For Class 55 Rating, Add</i> .....	1,026.66	
			<i>For Class 56 Rating, Add</i> .....	1,361.73	
40 05 19 00-0707	EA		10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,488.65	563.22
			<i>For Class 52 Rating, Deduct</i> .....	-509.88	
			<i>For Class 54 Rating, Add</i> .....	705.53	
			<i>For Class 55 Rating, Add</i> .....	1,054.15	
			<i>For Class 56 Rating, Add</i> .....	1,398.13	
40 05 19 00-0708	EA		10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,617.27	567.15
			<i>For Class 52 Rating, Deduct</i> .....	-523.37	
			<i>For Class 54 Rating, Add</i> .....	724.00	
			<i>For Class 55 Rating, Add</i> .....	1,081.64	
			<i>For Class 56 Rating, Add</i> .....	1,434.53	
40 05 19 00-0709	EA		10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,745.89	571.10
			<i>For Class 52 Rating, Deduct</i> .....	-536.86	
			<i>For Class 54 Rating, Add</i> .....	742.47	
			<i>For Class 55 Rating, Add</i> .....	1,109.14	
			<i>For Class 56 Rating, Add</i> .....	1,470.92	
40 05 19 00-0710	EA		10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,874.50	575.04
			<i>For Class 52 Rating, Deduct</i> .....	-550.36	
			<i>For Class 54 Rating, Add</i> .....	760.94	
			<i>For Class 55 Rating, Add</i> .....	1,136.63	
			<i>For Class 56 Rating, Add</i> .....	1,507.32	
40 05 19 00-0711	EA		10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,003.12	578.97
			<i>For Class 52 Rating, Deduct</i> .....	-563.85	
			<i>For Class 54 Rating, Add</i> .....	779.41	
			<i>For Class 55 Rating, Add</i> .....	1,164.13	
			<i>For Class 56 Rating, Add</i> .....	1,543.72	
40 05 19 00-0712	EA		10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,131.74	582.91
			<i>For Class 52 Rating, Deduct</i> .....	-577.34	
			<i>For Class 54 Rating, Add</i> .....	797.88	
			<i>For Class 55 Rating, Add</i> .....	1,191.62	
			<i>For Class 56 Rating, Add</i> .....	1,580.11	
40 05 19 00-0713	EA		10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,260.36	586.85
			<i>For Class 52 Rating, Deduct</i> .....	-590.83	
			<i>For Class 54 Rating, Add</i> .....	816.35	
			<i>For Class 55 Rating, Add</i> .....	1,219.12	
			<i>For Class 56 Rating, Add</i> .....	1,616.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0714 EA 10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,388.96	590.78
For Class 52 Rating, Deduct	-604.32	
For Class 54 Rating, Add	834.82	
For Class 55 Rating, Add	1,246.61	
For Class 56 Rating, Add	1,652.90	
<b>40 05 19 00-0715 12" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small></b>		
40 05 19 00-0716 EA 12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,939.29	551.40
For Class 52 Rating, Deduct	-121.42	
For Class 54 Rating, Add	175.60	
For Class 55 Rating, Add	266.21	
For Class 56 Rating, Add	355.71	
40 05 19 00-0717 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,099.63	555.34
For Class 52 Rating, Deduct	-138.40	
For Class 54 Rating, Add	198.83	
For Class 55 Rating, Add	300.77	
For Class 56 Rating, Add	401.46	
40 05 19 00-0718 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,259.97	559.28
For Class 52 Rating, Deduct	-155.38	
For Class 54 Rating, Add	222.06	
For Class 55 Rating, Add	335.34	
For Class 56 Rating, Add	447.22	
40 05 19 00-0719 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,420.31	563.22
For Class 52 Rating, Deduct	-172.36	
For Class 54 Rating, Add	245.28	
For Class 55 Rating, Add	369.91	
For Class 56 Rating, Add	492.97	
40 05 19 00-0720 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,580.65	567.15
For Class 52 Rating, Deduct	-189.35	
For Class 54 Rating, Add	268.51	
For Class 55 Rating, Add	404.48	
For Class 56 Rating, Add	538.73	
40 05 19 00-0721 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,740.99	571.10
For Class 52 Rating, Deduct	-206.33	
For Class 54 Rating, Add	291.74	
For Class 55 Rating, Add	439.05	
For Class 56 Rating, Add	584.48	
40 05 19 00-0722 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,901.31	575.04
For Class 52 Rating, Deduct	-223.31	
For Class 54 Rating, Add	314.96	
For Class 55 Rating, Add	473.61	
For Class 56 Rating, Add	630.23	
40 05 19 00-0723 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,061.65	578.97
For Class 52 Rating, Deduct	-240.29	
For Class 54 Rating, Add	338.19	
For Class 55 Rating, Add	508.18	
For Class 56 Rating, Add	675.98	
40 05 19 00-0724 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,221.99	582.91
For Class 52 Rating, Deduct	-257.27	
For Class 54 Rating, Add	361.42	
For Class 55 Rating, Add	542.75	
For Class 56 Rating, Add	721.74	
40 05 19 00-0725 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,382.33	586.85
For Class 52 Rating, Deduct	-274.25	
For Class 54 Rating, Add	384.64	
For Class 55 Rating, Add	577.31	
For Class 56 Rating, Add	767.49	
40 05 19 00-0726 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,542.66	590.78
For Class 52 Rating, Deduct	-291.23	
For Class 54 Rating, Add	407.87	
For Class 55 Rating, Add	611.88	
For Class 56 Rating, Add	813.25	
40 05 19 00-0727 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,703.00	594.73
For Class 52 Rating, Deduct	-308.21	
For Class 54 Rating, Add	431.10	
For Class 55 Rating, Add	646.45	
For Class 56 Rating, Add	859.00	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0728	EA		12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,863.34	598.67
			<i>For Class 52 Rating, Deduct</i>	-325.19	
			<i>For Class 54 Rating, Add</i>	454.33	
			<i>For Class 55 Rating, Add</i>	681.02	
			<i>For Class 56 Rating, Add</i>	904.75	
40 05 19 00-0729	EA		12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,023.67	602.60
			<i>For Class 52 Rating, Deduct</i>	-342.17	
			<i>For Class 54 Rating, Add</i>	477.55	
			<i>For Class 55 Rating, Add</i>	715.59	
			<i>For Class 56 Rating, Add</i>	950.51	
40 05 19 00-0730	EA		12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,184.00	606.54
			<i>For Class 52 Rating, Deduct</i>	-359.15	
			<i>For Class 54 Rating, Add</i>	500.78	
			<i>For Class 55 Rating, Add</i>	750.15	
			<i>For Class 56 Rating, Add</i>	996.26	
40 05 19 00-0731	EA		12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,344.34	610.48
			<i>For Class 52 Rating, Deduct</i>	-376.13	
			<i>For Class 54 Rating, Add</i>	524.01	
			<i>For Class 55 Rating, Add</i>	784.72	
			<i>For Class 56 Rating, Add</i>	1,042.01	
40 05 19 00-0732	EA		12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,504.67	614.42
			<i>For Class 52 Rating, Deduct</i>	-393.11	
			<i>For Class 54 Rating, Add</i>	547.23	
			<i>For Class 55 Rating, Add</i>	819.29	
			<i>For Class 56 Rating, Add</i>	1,087.77	
40 05 19 00-0733	EA		12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,665.01	618.36
			<i>For Class 52 Rating, Deduct</i>	-410.09	
			<i>For Class 54 Rating, Add</i>	570.46	
			<i>For Class 55 Rating, Add</i>	853.85	
			<i>For Class 56 Rating, Add</i>	1,133.52	
40 05 19 00-0734	EA		12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,825.35	622.30
			<i>For Class 52 Rating, Deduct</i>	-427.07	
			<i>For Class 54 Rating, Add</i>	593.69	
			<i>For Class 55 Rating, Add</i>	888.42	
			<i>For Class 56 Rating, Add</i>	1,179.27	
40 05 19 00-0735	EA		12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,985.69	626.23
			<i>For Class 52 Rating, Deduct</i>	-444.05	
			<i>For Class 54 Rating, Add</i>	616.91	
			<i>For Class 55 Rating, Add</i>	922.99	
			<i>For Class 56 Rating, Add</i>	1,225.03	
40 05 19 00-0736	EA		12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,146.02	630.17
			<i>For Class 52 Rating, Deduct</i>	-461.03	
			<i>For Class 54 Rating, Add</i>	640.14	
			<i>For Class 55 Rating, Add</i>	957.56	
			<i>For Class 56 Rating, Add</i>	1,270.78	
40 05 19 00-0737	EA		12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,306.36	634.11
			<i>For Class 52 Rating, Deduct</i>	-478.01	
			<i>For Class 54 Rating, Add</i>	663.37	
			<i>For Class 55 Rating, Add</i>	992.13	
			<i>For Class 56 Rating, Add</i>	1,316.54	
40 05 19 00-0738	EA		12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,466.70	638.05
			<i>For Class 52 Rating, Deduct</i>	-494.99	
			<i>For Class 54 Rating, Add</i>	686.59	
			<i>For Class 55 Rating, Add</i>	1,026.69	
			<i>For Class 56 Rating, Add</i>	1,362.29	
40 05 19 00-0739	EA		12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,627.03	641.99
			<i>For Class 52 Rating, Deduct</i>	-511.98	
			<i>For Class 54 Rating, Add</i>	709.82	
			<i>For Class 55 Rating, Add</i>	1,061.26	
			<i>For Class 56 Rating, Add</i>	1,408.04	
40 05 19 00-0740	EA		12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,787.37	645.93
			<i>For Class 52 Rating, Deduct</i>	-528.96	
			<i>For Class 54 Rating, Add</i>	733.05	
			<i>For Class 55 Rating, Add</i>	1,095.83	
			<i>For Class 56 Rating, Add</i>	1,453.80	
40 05 19 00-0741	EA		12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,947.71	649.86
			<i>For Class 52 Rating, Deduct</i>	-545.94	
			<i>For Class 54 Rating, Add</i>	756.27	
			<i>For Class 55 Rating, Add</i>	1,130.39	
			<i>For Class 56 Rating, Add</i>	1,499.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0742 EA 12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,108.04	653.80
For Class 52 Rating, Deduct	-562.92	
For Class 54 Rating, Add	779.50	
For Class 55 Rating, Add	1,164.96	
For Class 56 Rating, Add	1,545.30	
40 05 19 00-0743 EA 12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,268.38	657.75
For Class 52 Rating, Deduct	-579.90	
For Class 54 Rating, Add	802.73	
For Class 55 Rating, Add	1,199.53	
For Class 56 Rating, Add	1,591.06	
40 05 19 00-0744 EA 12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,428.72	661.68
For Class 52 Rating, Deduct	-596.88	
For Class 54 Rating, Add	825.96	
For Class 55 Rating, Add	1,234.10	
For Class 56 Rating, Add	1,636.81	
40 05 19 00-0745 EA 12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,589.06	665.62
For Class 52 Rating, Deduct	-613.86	
For Class 54 Rating, Add	849.18	
For Class 55 Rating, Add	1,268.66	
For Class 56 Rating, Add	1,682.57	
40 05 19 00-0746 EA 12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,749.38	669.56
For Class 52 Rating, Deduct	-630.84	
For Class 54 Rating, Add	872.41	
For Class 55 Rating, Add	1,303.23	
For Class 56 Rating, Add	1,728.32	
40 05 19 00-0747 EA 12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,909.72	673.49
For Class 52 Rating, Deduct	-647.82	
For Class 54 Rating, Add	895.64	
For Class 55 Rating, Add	1,337.80	
For Class 56 Rating, Add	1,774.07	
40 05 19 00-0748 EA 12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,070.06	677.44
For Class 52 Rating, Deduct	-664.80	
For Class 54 Rating, Add	918.86	
For Class 55 Rating, Add	1,372.37	
For Class 56 Rating, Add	1,819.82	
40 05 19 00-0749 EA 12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,230.39	681.38
For Class 52 Rating, Deduct	-681.78	
For Class 54 Rating, Add	942.09	
For Class 55 Rating, Add	1,406.93	
For Class 56 Rating, Add	1,865.58	
40 05 19 00-0750 EA 12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,390.73	685.31
For Class 52 Rating, Deduct	-698.76	
For Class 54 Rating, Add	965.32	
For Class 55 Rating, Add	1,441.50	
For Class 56 Rating, Add	1,911.33	
40 05 19 00-0751 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,551.07	689.25
For Class 52 Rating, Deduct	-715.74	
For Class 54 Rating, Add	988.54	
For Class 55 Rating, Add	1,476.07	
For Class 56 Rating, Add	1,957.09	
40 05 19 00-0752 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,711.41	693.19
For Class 52 Rating, Deduct	-732.72	
For Class 54 Rating, Add	1,011.77	
For Class 55 Rating, Add	1,510.64	
For Class 56 Rating, Add	2,002.84	
40 05 19 00-0753 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,871.73	697.12
For Class 52 Rating, Deduct	-749.70	
For Class 54 Rating, Add	1,035.00	
For Class 55 Rating, Add	1,545.20	
For Class 56 Rating, Add	2,048.59	
40 05 19 00-0754 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	8,032.07	701.07
For Class 52 Rating, Deduct	-766.68	
For Class 54 Rating, Add	1,058.22	
For Class 55 Rating, Add	1,579.77	
For Class 56 Rating, Add	2,094.35	

40 05 19 00-0755 14" Flanged End x Grooved End (FxG), Class 53, Cement Lined,  
Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-0554)

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0756	EA	14"	Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,651.97	661.68
			<i>For Class 52 Rating, Deduct</i>	-181.44	
			<i>For Class 54 Rating, Add</i>	259.44	
			<i>For Class 55 Rating, Add</i>	391.88	
			<i>For Class 56 Rating, Add</i>	522.67	
40 05 19 00-0757	EA	14"	Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,846.14	665.62
			<i>For Class 52 Rating, Deduct</i>	-202.14	
			<i>For Class 54 Rating, Add</i>	287.75	
			<i>For Class 55 Rating, Add</i>	433.99	
			<i>For Class 56 Rating, Add</i>	578.40	
40 05 19 00-0758	EA	14"	Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,040.31	669.56
			<i>For Class 52 Rating, Deduct</i>	-222.84	
			<i>For Class 54 Rating, Add</i>	316.05	
			<i>For Class 55 Rating, Add</i>	476.11	
			<i>For Class 56 Rating, Add</i>	634.14	
40 05 19 00-0759	EA	14"	Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,234.48	673.49
			<i>For Class 52 Rating, Deduct</i>	-243.54	
			<i>For Class 54 Rating, Add</i>	344.35	
			<i>For Class 55 Rating, Add</i>	518.22	
			<i>For Class 56 Rating, Add</i>	689.88	
40 05 19 00-0760	EA	14"	Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,428.65	677.44
			<i>For Class 52 Rating, Deduct</i>	-264.25	
			<i>For Class 54 Rating, Add</i>	372.65	
			<i>For Class 55 Rating, Add</i>	560.33	
			<i>For Class 56 Rating, Add</i>	745.61	
40 05 19 00-0761	EA	14"	Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,622.81	681.38
			<i>For Class 52 Rating, Deduct</i>	-284.95	
			<i>For Class 54 Rating, Add</i>	400.95	
			<i>For Class 55 Rating, Add</i>	602.44	
			<i>For Class 56 Rating, Add</i>	801.34	
40 05 19 00-0762	EA	14"	Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,816.99	685.31
			<i>For Class 52 Rating, Deduct</i>	-305.65	
			<i>For Class 54 Rating, Add</i>	429.26	
			<i>For Class 55 Rating, Add</i>	644.56	
			<i>For Class 56 Rating, Add</i>	857.08	
40 05 19 00-0763	EA	14"	Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,011.16	689.25
			<i>For Class 52 Rating, Deduct</i>	-326.35	
			<i>For Class 54 Rating, Add</i>	457.56	
			<i>For Class 55 Rating, Add</i>	686.67	
			<i>For Class 56 Rating, Add</i>	912.81	
40 05 19 00-0764	EA	14"	Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,205.33	693.19
			<i>For Class 52 Rating, Deduct</i>	-347.05	
			<i>For Class 54 Rating, Add</i>	485.86	
			<i>For Class 55 Rating, Add</i>	728.78	
			<i>For Class 56 Rating, Add</i>	968.55	
40 05 19 00-0765	EA	14"	Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,399.50	697.12
			<i>For Class 52 Rating, Deduct</i>	-367.76	
			<i>For Class 54 Rating, Add</i>	514.16	
			<i>For Class 55 Rating, Add</i>	770.89	
			<i>For Class 56 Rating, Add</i>	1,024.28	
40 05 19 00-0766	EA	14"	Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,593.67	701.07
			<i>For Class 52 Rating, Deduct</i>	-388.46	
			<i>For Class 54 Rating, Add</i>	542.46	
			<i>For Class 55 Rating, Add</i>	813.01	
			<i>For Class 56 Rating, Add</i>	1,080.02	
40 05 19 00-0767	EA	14"	Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,787.84	705.01
			<i>For Class 52 Rating, Deduct</i>	-409.16	
			<i>For Class 54 Rating, Add</i>	570.77	
			<i>For Class 55 Rating, Add</i>	855.12	
			<i>For Class 56 Rating, Add</i>	1,135.75	
40 05 19 00-0768	EA	14"	Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,982.00	708.94
			<i>For Class 52 Rating, Deduct</i>	-429.86	
			<i>For Class 54 Rating, Add</i>	599.07	
			<i>For Class 55 Rating, Add</i>	897.23	
			<i>For Class 56 Rating, Add</i>	1,191.49	
40 05 19 00-0769	EA	14"	Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,176.19	712.88
			<i>For Class 52 Rating, Deduct</i>	-450.57	
			<i>For Class 54 Rating, Add</i>	627.37	
			<i>For Class 55 Rating, Add</i>	939.34	
			<i>For Class 56 Rating, Add</i>	1,247.22	





<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0770 EA 14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	5,370.36	716.82
<i>For Class 52 Rating, Deduct</i>	-471.27	
<i>For Class 54 Rating, Add</i>	655.67	
<i>For Class 55 Rating, Add</i>	981.46	
<i>For Class 56 Rating, Add</i>	1,302.96	
40 05 19 00-0771 EA 14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	5,564.52	720.76
<i>For Class 52 Rating, Deduct</i>	-491.97	
<i>For Class 54 Rating, Add</i>	683.97	
<i>For Class 55 Rating, Add</i>	1,023.57	
<i>For Class 56 Rating, Add</i>	1,358.69	
40 05 19 00-0772 EA 14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	5,758.70	724.70
<i>For Class 52 Rating, Deduct</i>	-512.67	
<i>For Class 54 Rating, Add</i>	712.28	
<i>For Class 55 Rating, Add</i>	1,065.68	
<i>For Class 56 Rating, Add</i>	1,414.43	
40 05 19 00-0773 EA 14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	5,952.87	728.64
<i>For Class 52 Rating, Deduct</i>	-533.38	
<i>For Class 54 Rating, Add</i>	740.58	
<i>For Class 55 Rating, Add</i>	1,107.79	
<i>For Class 56 Rating, Add</i>	1,470.16	
40 05 19 00-0774 EA 14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,147.04	732.58
<i>For Class 52 Rating, Deduct</i>	-554.08	
<i>For Class 54 Rating, Add</i>	768.88	
<i>For Class 55 Rating, Add</i>	1,149.91	
<i>For Class 56 Rating, Add</i>	1,525.89	
40 05 19 00-0775 EA 14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,341.21	736.51
<i>For Class 52 Rating, Deduct</i>	-574.78	
<i>For Class 54 Rating, Add</i>	797.18	
<i>For Class 55 Rating, Add</i>	1,192.02	
<i>For Class 56 Rating, Add</i>	1,581.63	
40 05 19 00-0776 EA 14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,535.38	740.45
<i>For Class 52 Rating, Deduct</i>	-595.48	
<i>For Class 54 Rating, Add</i>	825.48	
<i>For Class 55 Rating, Add</i>	1,234.13	
<i>For Class 56 Rating, Add</i>	1,637.37	
40 05 19 00-0777 EA 14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,729.55	744.40
<i>For Class 52 Rating, Deduct</i>	-616.18	
<i>For Class 54 Rating, Add</i>	853.79	
<i>For Class 55 Rating, Add</i>	1,276.24	
<i>For Class 56 Rating, Add</i>	1,693.10	
40 05 19 00-0778 EA 14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	6,923.71	748.33
<i>For Class 52 Rating, Deduct</i>	-636.89	
<i>For Class 54 Rating, Add</i>	882.09	
<i>For Class 55 Rating, Add</i>	1,318.36	
<i>For Class 56 Rating, Add</i>	1,748.83	
40 05 19 00-0779 EA 14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,117.89	752.27
<i>For Class 52 Rating, Deduct</i>	-657.59	
<i>For Class 54 Rating, Add</i>	910.39	
<i>For Class 55 Rating, Add</i>	1,360.47	
<i>For Class 56 Rating, Add</i>	1,804.57	
40 05 19 00-0780 EA 14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,312.06	756.21
<i>For Class 52 Rating, Deduct</i>	-678.29	
<i>For Class 54 Rating, Add</i>	938.69	
<i>For Class 55 Rating, Add</i>	1,402.58	
<i>For Class 56 Rating, Add</i>	1,860.30	
40 05 19 00-0781 EA 14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,506.22	760.14
<i>For Class 52 Rating, Deduct</i>	-698.99	
<i>For Class 54 Rating, Add</i>	966.99	
<i>For Class 55 Rating, Add</i>	1,444.69	
<i>For Class 56 Rating, Add</i>	1,916.04	
40 05 19 00-0782 EA 14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,700.40	764.09
<i>For Class 52 Rating, Deduct</i>	-719.70	
<i>For Class 54 Rating, Add</i>	995.30	
<i>For Class 55 Rating, Add</i>	1,486.81	
<i>For Class 56 Rating, Add</i>	1,971.77	
40 05 19 00-0783 EA 14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe	7,894.57	768.03
<i>For Class 52 Rating, Deduct</i>	-740.40	
<i>For Class 54 Rating, Add</i>	1,023.60	
<i>For Class 55 Rating, Add</i>	1,528.92	
<i>For Class 56 Rating, Add</i>	2,027.51	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0784	EA		14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,088.74	771.96
			<i>For Class 52 Rating, Deduct</i>	-761.10	
			<i>For Class 54 Rating, Add</i>	1,051.90	
			<i>For Class 55 Rating, Add</i>	1,571.03	
			<i>For Class 56 Rating, Add</i>	2,083.24	
40 05 19 00-0785	EA		14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,282.90	775.90
			<i>For Class 52 Rating, Deduct</i>	-781.80	
			<i>For Class 54 Rating, Add</i>	1,080.20	
			<i>For Class 55 Rating, Add</i>	1,613.14	
			<i>For Class 56 Rating, Add</i>	2,138.98	
40 05 19 00-0786	EA		14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,477.08	779.84
			<i>For Class 52 Rating, Deduct</i>	-802.51	
			<i>For Class 54 Rating, Add</i>	1,108.51	
			<i>For Class 55 Rating, Add</i>	1,655.26	
			<i>For Class 56 Rating, Add</i>	2,194.71	
40 05 19 00-0787	EA		14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,671.25	783.77
			<i>For Class 52 Rating, Deduct</i>	-823.21	
			<i>For Class 54 Rating, Add</i>	1,136.81	
			<i>For Class 55 Rating, Add</i>	1,697.37	
			<i>For Class 56 Rating, Add</i>	2,250.45	
40 05 19 00-0788	EA		14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,865.42	787.72
			<i>For Class 52 Rating, Deduct</i>	-843.91	
			<i>For Class 54 Rating, Add</i>	1,165.11	
			<i>For Class 55 Rating, Add</i>	1,739.48	
			<i>For Class 56 Rating, Add</i>	2,306.18	
40 05 19 00-0789	EA		14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,059.60	791.66
			<i>For Class 52 Rating, Deduct</i>	-864.61	
			<i>For Class 54 Rating, Add</i>	1,193.41	
			<i>For Class 55 Rating, Add</i>	1,781.59	
			<i>For Class 56 Rating, Add</i>	2,361.92	
40 05 19 00-0790	EA		14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,253.77	795.59
			<i>For Class 52 Rating, Deduct</i>	-885.32	
			<i>For Class 54 Rating, Add</i>	1,221.71	
			<i>For Class 55 Rating, Add</i>	1,823.71	
			<i>For Class 56 Rating, Add</i>	2,417.65	
40 05 19 00-0791	EA		14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,447.93	799.53
			<i>For Class 52 Rating, Deduct</i>	-906.02	
			<i>For Class 54 Rating, Add</i>	1,250.01	
			<i>For Class 55 Rating, Add</i>	1,865.82	
			<i>For Class 56 Rating, Add</i>	2,473.38	
40 05 19 00-0792	EA		14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,642.11	803.47
			<i>For Class 52 Rating, Deduct</i>	-926.72	
			<i>For Class 54 Rating, Add</i>	1,278.32	
			<i>For Class 55 Rating, Add</i>	1,907.93	
			<i>For Class 56 Rating, Add</i>	2,529.12	
40 05 19 00-0793	EA		14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,836.28	807.41
			<i>For Class 52 Rating, Deduct</i>	-947.42	
			<i>For Class 54 Rating, Add</i>	1,306.62	
			<i>For Class 55 Rating, Add</i>	1,950.04	
			<i>For Class 56 Rating, Add</i>	2,584.85	
40 05 19 00-0794			16" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0795	EA		16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,097.58	756.21
			<i>For Class 52 Rating, Deduct</i>	-214.70	
			<i>For Class 54 Rating, Add</i>	306.52	
			<i>For Class 55 Rating, Add</i>	462.75	
			<i>For Class 56 Rating, Add</i>	617.03	
40 05 19 00-0796	EA		16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,323.47	760.14
			<i>For Class 52 Rating, Deduct</i>	-238.89	
			<i>For Class 54 Rating, Add</i>	339.58	
			<i>For Class 55 Rating, Add</i>	511.94	
			<i>For Class 56 Rating, Add</i>	682.13	
40 05 19 00-0797	EA		16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,549.36	764.09
			<i>For Class 52 Rating, Deduct</i>	-263.08	
			<i>For Class 54 Rating, Add</i>	372.64	
			<i>For Class 55 Rating, Add</i>	561.12	
			<i>For Class 56 Rating, Add</i>	747.22	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0798 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,775.25	768.03
<i>For Class 52 Rating, Deduct</i>	-287.27	
<i>For Class 54 Rating, Add</i>	405.70	
<i>For Class 55 Rating, Add</i>	610.31	
<i>For Class 56 Rating, Add</i>	812.31	
40 05 19 00-0799 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,001.14	771.96
<i>For Class 52 Rating, Deduct</i>	-311.47	
<i>For Class 54 Rating, Add</i>	438.76	
<i>For Class 55 Rating, Add</i>	659.50	
<i>For Class 56 Rating, Add</i>	877.40	
40 05 19 00-0800 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,227.03	775.90
<i>For Class 52 Rating, Deduct</i>	-335.66	
<i>For Class 54 Rating, Add</i>	471.82	
<i>For Class 55 Rating, Add</i>	708.68	
<i>For Class 56 Rating, Add</i>	942.49	
40 05 19 00-0801 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,452.92	779.84
<i>For Class 52 Rating, Deduct</i>	-359.85	
<i>For Class 54 Rating, Add</i>	504.88	
<i>For Class 55 Rating, Add</i>	757.87	
<i>For Class 56 Rating, Add</i>	1,007.58	
40 05 19 00-0802 EA 16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,678.81	783.77
<i>For Class 52 Rating, Deduct</i>	-384.04	
<i>For Class 54 Rating, Add</i>	537.94	
<i>For Class 55 Rating, Add</i>	807.05	
<i>For Class 56 Rating, Add</i>	1,072.68	
40 05 19 00-0803 EA 16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,904.70	787.72
<i>For Class 52 Rating, Deduct</i>	-408.23	
<i>For Class 54 Rating, Add</i>	571.00	
<i>For Class 55 Rating, Add</i>	856.24	
<i>For Class 56 Rating, Add</i>	1,137.77	
40 05 19 00-0804 EA 16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,109.45	791.66
<i>For Class 52 Rating, Deduct</i>	-430.10	
<i>For Class 54 Rating, Add</i>	600.89	
<i>For Class 55 Rating, Add</i>	900.71	
<i>For Class 56 Rating, Add</i>	1,196.62	
40 05 19 00-0805 EA 16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,356.49	795.59
<i>For Class 52 Rating, Deduct</i>	-456.61	
<i>For Class 54 Rating, Add</i>	637.12	
<i>For Class 55 Rating, Add</i>	954.61	
<i>For Class 56 Rating, Add</i>	1,267.95	
40 05 19 00-0806 EA 16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,582.37	799.53
<i>For Class 52 Rating, Deduct</i>	-480.81	
<i>For Class 54 Rating, Add</i>	670.18	
<i>For Class 55 Rating, Add</i>	1,003.80	
<i>For Class 56 Rating, Add</i>	1,333.04	
40 05 19 00-0807 EA 16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,808.26	803.47
<i>For Class 52 Rating, Deduct</i>	-505.00	
<i>For Class 54 Rating, Add</i>	703.24	
<i>For Class 55 Rating, Add</i>	1,052.98	
<i>For Class 56 Rating, Add</i>	1,398.14	
40 05 19 00-0808 EA 16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,034.16	807.41
<i>For Class 52 Rating, Deduct</i>	-529.19	
<i>For Class 54 Rating, Add</i>	736.30	
<i>For Class 55 Rating, Add</i>	1,102.17	
<i>For Class 56 Rating, Add</i>	1,463.23	
40 05 19 00-0809 EA 16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,260.05	811.35
<i>For Class 52 Rating, Deduct</i>	-553.38	
<i>For Class 54 Rating, Add</i>	769.36	
<i>For Class 55 Rating, Add</i>	1,151.36	
<i>For Class 56 Rating, Add</i>	1,528.32	
40 05 19 00-0810 EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,485.93	815.29
<i>For Class 52 Rating, Deduct</i>	-577.57	
<i>For Class 54 Rating, Add</i>	802.42	
<i>For Class 55 Rating, Add</i>	1,200.54	
<i>For Class 56 Rating, Add</i>	1,593.41	
40 05 19 00-0811 EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,711.82	819.22
<i>For Class 52 Rating, Deduct</i>	-601.76	
<i>For Class 54 Rating, Add</i>	835.48	
<i>For Class 55 Rating, Add</i>	1,249.73	
<i>For Class 56 Rating, Add</i>	1,658.50	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0812	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,937.72	823.16
			<i>For Class 52 Rating, Deduct</i> .....	-625.96	
			<i>For Class 54 Rating, Add</i> .....	868.54	
			<i>For Class 55 Rating, Add</i> .....	1,298.91	
			<i>For Class 56 Rating, Add</i> .....	1,723.60	
40 05 19 00-0813	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,163.60	827.10
			<i>For Class 52 Rating, Deduct</i> .....	-650.15	
			<i>For Class 54 Rating, Add</i> .....	901.60	
			<i>For Class 55 Rating, Add</i> .....	1,348.10	
			<i>For Class 56 Rating, Add</i> .....	1,788.69	
40 05 19 00-0814	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,389.49	831.04
			<i>For Class 52 Rating, Deduct</i> .....	-674.34	
			<i>For Class 54 Rating, Add</i> .....	934.66	
			<i>For Class 55 Rating, Add</i> .....	1,397.29	
			<i>For Class 56 Rating, Add</i> .....	1,853.78	
40 05 19 00-0815	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,615.38	834.98
			<i>For Class 52 Rating, Deduct</i> .....	-698.53	
			<i>For Class 54 Rating, Add</i> .....	967.72	
			<i>For Class 55 Rating, Add</i> .....	1,446.47	
			<i>For Class 56 Rating, Add</i> .....	1,918.87	
40 05 19 00-0816	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,841.27	838.92
			<i>For Class 52 Rating, Deduct</i> .....	-722.72	
			<i>For Class 54 Rating, Add</i> .....	1,000.78	
			<i>For Class 55 Rating, Add</i> .....	1,495.66	
			<i>For Class 56 Rating, Add</i> .....	1,983.96	
40 05 19 00-0817	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,067.16	842.85
			<i>For Class 52 Rating, Deduct</i> .....	-746.91	
			<i>For Class 54 Rating, Add</i> .....	1,033.84	
			<i>For Class 55 Rating, Add</i> .....	1,544.84	
			<i>For Class 56 Rating, Add</i> .....	2,049.06	
40 05 19 00-0818	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,293.05	846.79
			<i>For Class 52 Rating, Deduct</i> .....	-771.10	
			<i>For Class 54 Rating, Add</i> .....	1,066.90	
			<i>For Class 55 Rating, Add</i> .....	1,594.03	
			<i>For Class 56 Rating, Add</i> .....	2,114.15	
40 05 19 00-0819	EA		16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,518.94	850.74
			<i>For Class 52 Rating, Deduct</i> .....	-795.29	
			<i>For Class 54 Rating, Add</i> .....	1,099.96	
			<i>For Class 55 Rating, Add</i> .....	1,643.21	
			<i>For Class 56 Rating, Add</i> .....	2,179.24	
40 05 19 00-0820	EA		16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,744.83	854.67
			<i>For Class 52 Rating, Deduct</i> .....	-819.49	
			<i>For Class 54 Rating, Add</i> .....	1,133.02	
			<i>For Class 55 Rating, Add</i> .....	1,692.40	
			<i>For Class 56 Rating, Add</i> .....	2,244.33	
40 05 19 00-0821	EA		16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,970.73	858.61
			<i>For Class 52 Rating, Deduct</i> .....	-843.68	
			<i>For Class 54 Rating, Add</i> .....	1,166.08	
			<i>For Class 55 Rating, Add</i> .....	1,741.59	
			<i>For Class 56 Rating, Add</i> .....	2,309.42	
40 05 19 00-0822	EA		16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,196.62	862.55
			<i>For Class 52 Rating, Deduct</i> .....	-867.87	
			<i>For Class 54 Rating, Add</i> .....	1,199.14	
			<i>For Class 55 Rating, Add</i> .....	1,790.77	
			<i>For Class 56 Rating, Add</i> .....	2,374.52	
40 05 19 00-0823	EA		16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,422.50	866.48
			<i>For Class 52 Rating, Deduct</i> .....	-892.06	
			<i>For Class 54 Rating, Add</i> .....	1,232.20	
			<i>For Class 55 Rating, Add</i> .....	1,839.96	
			<i>For Class 56 Rating, Add</i> .....	2,439.61	
40 05 19 00-0824	EA		16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,648.40	870.42
			<i>For Class 52 Rating, Deduct</i> .....	-916.25	
			<i>For Class 54 Rating, Add</i> .....	1,265.26	
			<i>For Class 55 Rating, Add</i> .....	1,889.15	
			<i>For Class 56 Rating, Add</i> .....	2,504.70	
40 05 19 00-0825	EA		16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,874.29	874.37
			<i>For Class 52 Rating, Deduct</i> .....	-940.44	
			<i>For Class 54 Rating, Add</i> .....	1,298.32	
			<i>For Class 55 Rating, Add</i> .....	1,938.33	
			<i>For Class 56 Rating, Add</i> .....	2,569.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0826 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	10,100.17	878.30
For Class 52 Rating, Deduct	-964.64	
For Class 54 Rating, Add	1,331.38	
For Class 55 Rating, Add	1,987.52	
For Class 56 Rating, Add	2,634.88	
40 05 19 00-0827 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	10,326.06	882.24
For Class 52 Rating, Deduct	-988.83	
For Class 54 Rating, Add	1,364.44	
For Class 55 Rating, Add	2,036.70	
For Class 56 Rating, Add	2,699.97	
40 05 19 00-0828 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	10,551.96	886.18
For Class 52 Rating, Deduct	-1,013.02	
For Class 54 Rating, Add	1,397.50	
For Class 55 Rating, Add	2,085.89	
For Class 56 Rating, Add	2,765.07	
40 05 19 00-0829 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	10,777.85	890.12
For Class 52 Rating, Deduct	-1,037.21	
For Class 54 Rating, Add	1,430.56	
For Class 55 Rating, Add	2,135.08	
For Class 56 Rating, Add	2,830.16	
40 05 19 00-0830 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	11,003.73	894.06
For Class 52 Rating, Deduct	-1,061.40	
For Class 54 Rating, Add	1,463.62	
For Class 55 Rating, Add	2,184.26	
For Class 56 Rating, Add	2,895.25	
40 05 19 00-0831 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	11,229.62	898.00
For Class 52 Rating, Deduct	-1,085.59	
For Class 54 Rating, Add	1,496.68	
For Class 55 Rating, Add	2,233.45	
For Class 56 Rating, Add	2,960.34	
40 05 19 00-0832 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	11,455.52	901.94
For Class 52 Rating, Deduct	-1,109.78	
For Class 54 Rating, Add	1,529.74	
For Class 55 Rating, Add	2,282.63	
For Class 56 Rating, Add	3,025.44	
 40 05 19 00-0833 18" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small>		
40 05 19 00-0834 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	3,606.91	852.31
For Class 52 Rating, Deduct	-254.71	
For Class 54 Rating, Add	362.83	
For Class 55 Rating, Add	547.36	
For Class 56 Rating, Add	729.57	
40 05 19 00-0835 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	3,866.63	856.26
For Class 52 Rating, Deduct	-282.62	
For Class 54 Rating, Add	400.96	
For Class 55 Rating, Add	604.09	
For Class 56 Rating, Add	804.64	
40 05 19 00-0836 EA 18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,126.35	860.19
For Class 52 Rating, Deduct	-310.53	
For Class 54 Rating, Add	439.10	
For Class 55 Rating, Add	660.82	
For Class 56 Rating, Add	879.72	
40 05 19 00-0837 EA 18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,386.08	864.13
For Class 52 Rating, Deduct	-338.45	
For Class 54 Rating, Add	477.23	
For Class 55 Rating, Add	717.55	
For Class 56 Rating, Add	954.79	
40 05 19 00-0838 EA 18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,645.80	868.07
For Class 52 Rating, Deduct	-366.36	
For Class 54 Rating, Add	515.37	
For Class 55 Rating, Add	774.28	
For Class 56 Rating, Add	1,029.86	
40 05 19 00-0839 EA 18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,905.52	872.00
For Class 52 Rating, Deduct	-394.27	
For Class 54 Rating, Add	553.50	
For Class 55 Rating, Add	831.01	
For Class 56 Rating, Add	1,104.94	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0840	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,165.25	875.94
			<i>For Class 52 Rating, Deduct</i>	-422.19	
			<i>For Class 54 Rating, Add</i>	591.64	
			<i>For Class 55 Rating, Add</i>	887.74	
			<i>For Class 56 Rating, Add</i>	1,180.01	
40 05 19 00-0841	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,424.98	879.89
			<i>For Class 52 Rating, Deduct</i>	-450.10	
			<i>For Class 54 Rating, Add</i>	629.77	
			<i>For Class 55 Rating, Add</i>	944.47	
			<i>For Class 56 Rating, Add</i>	1,255.08	
40 05 19 00-0842	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,684.70	883.82
			<i>For Class 52 Rating, Deduct</i>	-478.01	
			<i>For Class 54 Rating, Add</i>	667.91	
			<i>For Class 55 Rating, Add</i>	1,001.21	
			<i>For Class 56 Rating, Add</i>	1,330.16	
40 05 19 00-0843	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,944.42	887.76
			<i>For Class 52 Rating, Deduct</i>	-505.93	
			<i>For Class 54 Rating, Add</i>	706.04	
			<i>For Class 55 Rating, Add</i>	1,057.93	
			<i>For Class 56 Rating, Add</i>	1,405.23	
40 05 19 00-0844	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,204.16	891.70
			<i>For Class 52 Rating, Deduct</i>	-533.84	
			<i>For Class 54 Rating, Add</i>	744.18	
			<i>For Class 55 Rating, Add</i>	1,114.67	
			<i>For Class 56 Rating, Add</i>	1,480.30	
40 05 19 00-0845	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,463.88	895.63
			<i>For Class 52 Rating, Deduct</i>	-561.75	
			<i>For Class 54 Rating, Add</i>	782.31	
			<i>For Class 55 Rating, Add</i>	1,171.40	
			<i>For Class 56 Rating, Add</i>	1,555.38	
40 05 19 00-0846	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,723.60	899.58
			<i>For Class 52 Rating, Deduct</i>	-589.67	
			<i>For Class 54 Rating, Add</i>	820.45	
			<i>For Class 55 Rating, Add</i>	1,228.13	
			<i>For Class 56 Rating, Add</i>	1,630.45	
40 05 19 00-0847	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,983.33	903.52
			<i>For Class 52 Rating, Deduct</i>	-617.58	
			<i>For Class 54 Rating, Add</i>	858.58	
			<i>For Class 55 Rating, Add</i>	1,284.86	
			<i>For Class 56 Rating, Add</i>	1,705.52	
40 05 19 00-0848	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,243.05	907.46
			<i>For Class 52 Rating, Deduct</i>	-645.49	
			<i>For Class 54 Rating, Add</i>	896.72	
			<i>For Class 55 Rating, Add</i>	1,341.59	
			<i>For Class 56 Rating, Add</i>	1,780.60	
40 05 19 00-0849	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,502.77	911.39
			<i>For Class 52 Rating, Deduct</i>	-673.41	
			<i>For Class 54 Rating, Add</i>	934.85	
			<i>For Class 55 Rating, Add</i>	1,398.32	
			<i>For Class 56 Rating, Add</i>	1,855.67	
40 05 19 00-0850	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,762.50	915.33
			<i>For Class 52 Rating, Deduct</i>	-701.32	
			<i>For Class 54 Rating, Add</i>	972.99	
			<i>For Class 55 Rating, Add</i>	1,455.05	
			<i>For Class 56 Rating, Add</i>	1,930.74	
40 05 19 00-0851	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,022.23	919.27
			<i>For Class 52 Rating, Deduct</i>	-729.23	
			<i>For Class 54 Rating, Add</i>	1,011.12	
			<i>For Class 55 Rating, Add</i>	1,511.78	
			<i>For Class 56 Rating, Add</i>	2,005.81	
40 05 19 00-0852	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,281.94	923.21
			<i>For Class 52 Rating, Deduct</i>	-757.15	
			<i>For Class 54 Rating, Add</i>	1,049.26	
			<i>For Class 55 Rating, Add</i>	1,568.51	
			<i>For Class 56 Rating, Add</i>	2,080.89	
40 05 19 00-0853	EA		18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,541.67	927.15
			<i>For Class 52 Rating, Deduct</i>	-785.06	
			<i>For Class 54 Rating, Add</i>	1,087.39	
			<i>For Class 55 Rating, Add</i>	1,625.25	
			<i>For Class 56 Rating, Add</i>	2,155.96	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0854	EA			18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,801.40	931.09
				<i>For Class 52 Rating, Deduct</i>	-812.97	
				<i>For Class 54 Rating, Add</i>	1,125.53	
				<i>For Class 55 Rating, Add</i>	1,681.98	
				<i>For Class 56 Rating, Add</i>	2,231.03	
40 05 19 00-0855	EA			18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,061.11	935.02
				<i>For Class 52 Rating, Deduct</i>	-840.89	
				<i>For Class 54 Rating, Add</i>	1,163.66	
				<i>For Class 55 Rating, Add</i>	1,738.71	
				<i>For Class 56 Rating, Add</i>	2,306.10	
40 05 19 00-0856	EA			18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,320.84	938.96
				<i>For Class 52 Rating, Deduct</i>	-868.80	
				<i>For Class 54 Rating, Add</i>	1,201.80	
				<i>For Class 55 Rating, Add</i>	1,795.44	
				<i>For Class 56 Rating, Add</i>	2,381.18	
40 05 19 00-0857	EA			18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,580.57	942.91
				<i>For Class 52 Rating, Deduct</i>	-896.71	
				<i>For Class 54 Rating, Add</i>	1,239.93	
				<i>For Class 55 Rating, Add</i>	1,852.17	
				<i>For Class 56 Rating, Add</i>	2,456.25	
40 05 19 00-0858	EA			18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,840.28	946.84
				<i>For Class 52 Rating, Deduct</i>	-924.63	
				<i>For Class 54 Rating, Add</i>	1,278.07	
				<i>For Class 55 Rating, Add</i>	1,908.90	
				<i>For Class 56 Rating, Add</i>	2,531.32	
40 05 19 00-0859	EA			18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,100.01	950.78
				<i>For Class 52 Rating, Deduct</i>	-952.54	
				<i>For Class 54 Rating, Add</i>	1,316.20	
				<i>For Class 55 Rating, Add</i>	1,965.63	
				<i>For Class 56 Rating, Add</i>	2,606.40	
40 05 19 00-0860	EA			18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,359.74	954.72
				<i>For Class 52 Rating, Deduct</i>	-980.45	
				<i>For Class 54 Rating, Add</i>	1,354.34	
				<i>For Class 55 Rating, Add</i>	2,022.36	
				<i>For Class 56 Rating, Add</i>	2,681.47	
40 05 19 00-0861	EA			18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,619.46	958.65
				<i>For Class 52 Rating, Deduct</i>	-1,008.37	
				<i>For Class 54 Rating, Add</i>	1,392.47	
				<i>For Class 55 Rating, Add</i>	2,079.09	
				<i>For Class 56 Rating, Add</i>	2,756.54	
40 05 19 00-0862	EA			18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,879.18	962.59
				<i>For Class 52 Rating, Deduct</i>	-1,036.28	
				<i>For Class 54 Rating, Add</i>	1,430.61	
				<i>For Class 55 Rating, Add</i>	2,135.82	
				<i>For Class 56 Rating, Add</i>	2,831.62	
40 05 19 00-0863	EA			18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,138.92	966.54
				<i>For Class 52 Rating, Deduct</i>	-1,064.19	
				<i>For Class 54 Rating, Add</i>	1,468.75	
				<i>For Class 55 Rating, Add</i>	2,192.56	
				<i>For Class 56 Rating, Add</i>	2,906.69	
40 05 19 00-0864	EA			18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,398.64	970.47
				<i>For Class 52 Rating, Deduct</i>	-1,092.11	
				<i>For Class 54 Rating, Add</i>	1,506.88	
				<i>For Class 55 Rating, Add</i>	2,249.29	
				<i>For Class 56 Rating, Add</i>	2,981.76	
40 05 19 00-0865	EA			18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,658.36	974.41
				<i>For Class 52 Rating, Deduct</i>	-1,120.02	
				<i>For Class 54 Rating, Add</i>	1,545.01	
				<i>For Class 55 Rating, Add</i>	2,306.02	
				<i>For Class 56 Rating, Add</i>	3,056.84	
40 05 19 00-0866	EA			18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,918.09	978.35
				<i>For Class 52 Rating, Deduct</i>	-1,147.93	
				<i>For Class 54 Rating, Add</i>	1,583.15	
				<i>For Class 55 Rating, Add</i>	2,362.75	
				<i>For Class 56 Rating, Add</i>	3,131.91	
40 05 19 00-0867	EA			18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,177.82	982.28
				<i>For Class 52 Rating, Deduct</i>	-1,175.85	
				<i>For Class 54 Rating, Add</i>	1,621.29	
				<i>For Class 55 Rating, Add</i>	2,419.48	
				<i>For Class 56 Rating, Add</i>	3,206.98	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0868	EA		18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,437.54	986.23
			<i>For Class 52 Rating, Deduct</i>	-1,203.76	
			<i>For Class 54 Rating, Add</i>	1,659.42	
			<i>For Class 55 Rating, Add</i>	2,476.21	
			<i>For Class 56 Rating, Add</i>	3,282.06	
40 05 19 00-0869	EA		18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,697.26	990.17
			<i>For Class 52 Rating, Deduct</i>	-1,231.67	
			<i>For Class 54 Rating, Add</i>	1,697.56	
			<i>For Class 55 Rating, Add</i>	2,532.94	
			<i>For Class 56 Rating, Add</i>	3,357.13	
40 05 19 00-0870	EA		18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,956.99	994.10
			<i>For Class 52 Rating, Deduct</i>	-1,259.59	
			<i>For Class 54 Rating, Add</i>	1,735.69	
			<i>For Class 55 Rating, Add</i>	2,589.67	
			<i>For Class 56 Rating, Add</i>	3,432.20	
40 05 19 00-0871	EA		18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,216.71	998.04
			<i>For Class 52 Rating, Deduct</i>	-1,287.50	
			<i>For Class 54 Rating, Add</i>	1,773.83	
			<i>For Class 55 Rating, Add</i>	2,646.40	
			<i>For Class 56 Rating, Add</i>	3,507.27	
<b>40 05 19 00-0872</b>			<b>20" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0554)</small>		
40 05 19 00-0873	EA		20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,178.60	972.83
			<i>For Class 52 Rating, Deduct</i>	-297.51	
			<i>For Class 54 Rating, Add</i>	423.38	
			<i>For Class 55 Rating, Add</i>	638.51	
			<i>For Class 56 Rating, Add</i>	850.93	
40 05 19 00-0874	EA		20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,476.39	976.76
			<i>For Class 52 Rating, Deduct</i>	-329.61	
			<i>For Class 54 Rating, Add</i>	467.23	
			<i>For Class 55 Rating, Add</i>	703.72	
			<i>For Class 56 Rating, Add</i>	937.23	
40 05 19 00-0875	EA		20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,774.19	980.71
			<i>For Class 52 Rating, Deduct</i>	-361.71	
			<i>For Class 54 Rating, Add</i>	511.07	
			<i>For Class 55 Rating, Add</i>	768.95	
			<i>For Class 56 Rating, Add</i>	1,023.53	
40 05 19 00-0876	EA		20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,071.97	984.65
			<i>For Class 52 Rating, Deduct</i>	-393.81	
			<i>For Class 54 Rating, Add</i>	554.92	
			<i>For Class 55 Rating, Add</i>	834.17	
			<i>For Class 56 Rating, Add</i>	1,109.83	
40 05 19 00-0877	EA		20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,369.76	988.58
			<i>For Class 52 Rating, Deduct</i>	-425.91	
			<i>For Class 54 Rating, Add</i>	598.76	
			<i>For Class 55 Rating, Add</i>	899.38	
			<i>For Class 56 Rating, Add</i>	1,196.14	
40 05 19 00-0878	EA		20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,667.55	992.52
			<i>For Class 52 Rating, Deduct</i>	-458.01	
			<i>For Class 54 Rating, Add</i>	642.61	
			<i>For Class 55 Rating, Add</i>	964.60	
			<i>For Class 56 Rating, Add</i>	1,262.44	
40 05 19 00-0879	EA		20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,965.34	996.46
			<i>For Class 52 Rating, Deduct</i>	-490.11	
			<i>For Class 54 Rating, Add</i>	686.45	
			<i>For Class 55 Rating, Add</i>	1,029.82	
			<i>For Class 56 Rating, Add</i>	1,368.74	
40 05 19 00-0880	EA		20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,263.12	1,000.40
			<i>For Class 52 Rating, Deduct</i>	-522.21	
			<i>For Class 54 Rating, Add</i>	730.29	
			<i>For Class 55 Rating, Add</i>	1,095.04	
			<i>For Class 56 Rating, Add</i>	1,455.04	
40 05 19 00-0881	EA		20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,560.91	1,004.34
			<i>For Class 52 Rating, Deduct</i>	-554.31	
			<i>For Class 54 Rating, Add</i>	774.14	
			<i>For Class 55 Rating, Add</i>	1,160.26	
			<i>For Class 56 Rating, Add</i>	1,541.34	





<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
Ductile Iron Process Pipe 40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0882 EA 20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	6,858.71	1,008.28
Pipe	-586.41	
For Class 52 Rating, Deduct	817.98	
For Class 54 Rating, Add	1,225.48	
For Class 55 Rating, Add	1,627.65	
For Class 56 Rating, Add		
40 05 19 00-0883 EA 20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,156.49	1,012.21
Pipe	-618.51	
For Class 52 Rating, Deduct	861.83	
For Class 54 Rating, Add	1,290.70	
For Class 55 Rating, Add	1,713.95	
For Class 56 Rating, Add		
40 05 19 00-0884 EA 20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,454.28	1,016.15
Pipe	-650.61	
For Class 52 Rating, Deduct	905.67	
For Class 54 Rating, Add	1,355.92	
For Class 55 Rating, Add	1,800.25	
For Class 56 Rating, Add		
40 05 19 00-0885 EA 20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	7,752.07	1,020.09
Pipe	-682.71	
For Class 52 Rating, Deduct	949.52	
For Class 54 Rating, Add	1,421.14	
For Class 55 Rating, Add	1,886.55	
For Class 56 Rating, Add		
40 05 19 00-0886 EA 20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	8,049.85	1,024.03
Pipe	-714.81	
For Class 52 Rating, Deduct	993.36	
For Class 54 Rating, Add	1,486.36	
For Class 55 Rating, Add	1,972.85	
For Class 56 Rating, Add		
40 05 19 00-0887 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	8,347.64	1,027.97
Pipe	-746.91	
For Class 52 Rating, Deduct	1,037.21	
For Class 54 Rating, Add	1,551.58	
For Class 55 Rating, Add	2,059.15	
For Class 56 Rating, Add		
40 05 19 00-0888 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	8,645.43	1,031.91
Pipe	-779.01	
For Class 52 Rating, Deduct	1,081.05	
For Class 54 Rating, Add	1,616.79	
For Class 55 Rating, Add	2,145.46	
For Class 56 Rating, Add		
40 05 19 00-0889 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	8,943.22	1,035.84
Pipe	-811.11	
For Class 52 Rating, Deduct	1,124.90	
For Class 54 Rating, Add	1,682.01	
For Class 55 Rating, Add	2,231.76	
For Class 56 Rating, Add		
40 05 19 00-0890 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	9,241.00	1,039.78
Pipe	-843.21	
For Class 52 Rating, Deduct	1,168.74	
For Class 54 Rating, Add	1,747.23	
For Class 55 Rating, Add	2,318.06	
For Class 56 Rating, Add		
40 05 19 00-0891 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	9,538.79	1,043.73
Pipe	-875.31	
For Class 52 Rating, Deduct	1,212.59	
For Class 54 Rating, Add	1,812.45	
For Class 55 Rating, Add	2,404.36	
For Class 56 Rating, Add		
40 05 19 00-0892 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	9,836.58	1,047.67
Pipe	-907.41	
For Class 52 Rating, Deduct	1,256.43	
For Class 54 Rating, Add	1,877.67	
For Class 55 Rating, Add	2,490.66	
For Class 56 Rating, Add		
40 05 19 00-0893 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	10,134.36	1,051.60
Pipe	-939.51	
For Class 52 Rating, Deduct	1,300.27	
For Class 54 Rating, Add	1,942.89	
For Class 55 Rating, Add	2,576.96	
For Class 56 Rating, Add		
40 05 19 00-0894 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	10,432.15	1,055.54
Pipe	-971.61	
For Class 52 Rating, Deduct	1,344.12	
For Class 54 Rating, Add	2,008.11	
For Class 55 Rating, Add	2,663.27	
For Class 56 Rating, Add		
40 05 19 00-0895 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron	10,729.94	1,059.48
Pipe	-1,003.71	
For Class 52 Rating, Deduct	1,387.96	
For Class 54 Rating, Add	2,073.33	
For Class 55 Rating, Add	2,749.57	
For Class 56 Rating, Add		

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0896	EA		20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,027.72	1,063.41
			<i>For Class 52 Rating, Deduct</i>	-1,035.81	
			<i>For Class 54 Rating, Add</i>	1,431.81	
			<i>For Class 55 Rating, Add</i>	2,138.55	
			<i>For Class 56 Rating, Add</i>	2,835.87	
40 05 19 00-0897	EA		20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,325.51	1,067.36
			<i>For Class 52 Rating, Deduct</i>	-1,067.91	
			<i>For Class 54 Rating, Add</i>	1,475.65	
			<i>For Class 55 Rating, Add</i>	2,203.77	
			<i>For Class 56 Rating, Add</i>	2,922.17	
40 05 19 00-0898	EA		20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,623.30	1,071.30
			<i>For Class 52 Rating, Deduct</i>	-1,100.01	
			<i>For Class 54 Rating, Add</i>	1,519.50	
			<i>For Class 55 Rating, Add</i>	2,268.99	
			<i>For Class 56 Rating, Add</i>	3,008.47	
40 05 19 00-0899	EA		20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,921.09	1,075.23
			<i>For Class 52 Rating, Deduct</i>	-1,132.11	
			<i>For Class 54 Rating, Add</i>	1,563.34	
			<i>For Class 55 Rating, Add</i>	2,334.20	
			<i>For Class 56 Rating, Add</i>	3,094.77	
40 05 19 00-0900	EA		20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,218.87	1,079.17
			<i>For Class 52 Rating, Deduct</i>	-1,164.21	
			<i>For Class 54 Rating, Add</i>	1,607.19	
			<i>For Class 55 Rating, Add</i>	2,399.42	
			<i>For Class 56 Rating, Add</i>	3,181.08	
40 05 19 00-0901	EA		20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,516.66	1,083.11
			<i>For Class 52 Rating, Deduct</i>	-1,196.31	
			<i>For Class 54 Rating, Add</i>	1,651.03	
			<i>For Class 55 Rating, Add</i>	2,464.64	
			<i>For Class 56 Rating, Add</i>	3,267.38	
40 05 19 00-0902	EA		20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,814.46	1,087.05
			<i>For Class 52 Rating, Deduct</i>	-1,228.42	
			<i>For Class 54 Rating, Add</i>	1,694.88	
			<i>For Class 55 Rating, Add</i>	2,529.86	
			<i>For Class 56 Rating, Add</i>	3,353.68	
40 05 19 00-0903	EA		20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,112.24	1,090.99
			<i>For Class 52 Rating, Deduct</i>	-1,260.52	
			<i>For Class 54 Rating, Add</i>	1,738.72	
			<i>For Class 55 Rating, Add</i>	2,595.08	
			<i>For Class 56 Rating, Add</i>	3,439.98	
40 05 19 00-0904	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,410.03	1,094.93
			<i>For Class 52 Rating, Deduct</i>	-1,292.62	
			<i>For Class 54 Rating, Add</i>	1,782.57	
			<i>For Class 55 Rating, Add</i>	2,660.30	
			<i>For Class 56 Rating, Add</i>	3,526.28	
40 05 19 00-0905	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,707.82	1,098.86
			<i>For Class 52 Rating, Deduct</i>	-1,324.72	
			<i>For Class 54 Rating, Add</i>	1,826.41	
			<i>For Class 55 Rating, Add</i>	2,725.52	
			<i>For Class 56 Rating, Add</i>	3,612.58	
40 05 19 00-0906	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,005.61	1,102.80
			<i>For Class 52 Rating, Deduct</i>	-1,356.82	
			<i>For Class 54 Rating, Add</i>	1,870.26	
			<i>For Class 55 Rating, Add</i>	2,790.74	
			<i>For Class 56 Rating, Add</i>	3,698.89	
40 05 19 00-0907	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,303.40	1,106.74
			<i>For Class 52 Rating, Deduct</i>	-1,388.92	
			<i>For Class 54 Rating, Add</i>	1,914.10	
			<i>For Class 55 Rating, Add</i>	2,855.96	
			<i>For Class 56 Rating, Add</i>	3,785.19	
40 05 19 00-0908	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,601.19	1,110.68
			<i>For Class 52 Rating, Deduct</i>	-1,421.02	
			<i>For Class 54 Rating, Add</i>	1,957.95	
			<i>For Class 55 Rating, Add</i>	2,921.18	
			<i>For Class 56 Rating, Add</i>	3,871.49	
40 05 19 00-0909	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,898.98	1,114.62
			<i>For Class 52 Rating, Deduct</i>	-1,453.12	
			<i>For Class 54 Rating, Add</i>	2,001.79	
			<i>For Class 55 Rating, Add</i>	2,986.40	
			<i>For Class 56 Rating, Add</i>	3,957.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0910 EA 20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,196.76	1,118.56
For Class 52 Rating, Deduct	-1,485.22	
For Class 54 Rating, Add	2,045.63	
For Class 55 Rating, Add	3,051.62	
For Class 56 Rating, Add	4,044.10	
<b>40 05 19 00-0911 24" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-0554)</small></b>		
40 05 19 00-0912 EA 24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,159.78	1,150.06
For Class 52 Rating, Deduct	-375.90	
For Class 54 Rating, Add	533.50	
For Class 55 Rating, Add	803.87	
For Class 56 Rating, Add	1,070.82	
40 05 19 00-0913 EA 24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,527.35	1,154.01
For Class 52 Rating, Deduct	-415.67	
For Class 54 Rating, Add	587.81	
For Class 55 Rating, Add	884.65	
For Class 56 Rating, Add	1,177.71	
40 05 19 00-0914 EA 24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,894.93	1,157.94
For Class 52 Rating, Deduct	-455.45	
For Class 54 Rating, Add	642.12	
For Class 55 Rating, Add	965.43	
For Class 56 Rating, Add	1,284.60	
40 05 19 00-0915 EA 24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,262.50	1,161.88
For Class 52 Rating, Deduct	-495.23	
For Class 54 Rating, Add	696.44	
For Class 55 Rating, Add	1,046.21	
For Class 56 Rating, Add	1,391.49	
40 05 19 00-0916 EA 24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,630.07	1,165.82
For Class 52 Rating, Deduct	-535.00	
For Class 54 Rating, Add	750.75	
For Class 55 Rating, Add	1,126.99	
For Class 56 Rating, Add	1,498.37	
40 05 19 00-0917 EA 24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,997.64	1,169.75
For Class 52 Rating, Deduct	-574.78	
For Class 54 Rating, Add	805.06	
For Class 55 Rating, Add	1,207.77	
For Class 56 Rating, Add	1,605.26	
40 05 19 00-0918 EA 24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,365.21	1,173.70
For Class 52 Rating, Deduct	-614.56	
For Class 54 Rating, Add	859.37	
For Class 55 Rating, Add	1,288.55	
For Class 56 Rating, Add	1,712.15	
40 05 19 00-0919 EA 24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,732.78	1,177.64
For Class 52 Rating, Deduct	-654.33	
For Class 54 Rating, Add	913.68	
For Class 55 Rating, Add	1,369.33	
For Class 56 Rating, Add	1,819.04	
40 05 19 00-0920 EA 24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,100.36	1,181.57
For Class 52 Rating, Deduct	-694.11	
For Class 54 Rating, Add	968.00	
For Class 55 Rating, Add	1,450.12	
For Class 56 Rating, Add	1,925.93	
40 05 19 00-0921 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,467.92	1,185.51
For Class 52 Rating, Deduct	-733.89	
For Class 54 Rating, Add	1,022.31	
For Class 55 Rating, Add	1,530.90	
For Class 56 Rating, Add	2,032.81	
40 05 19 00-0922 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,835.49	1,189.45
For Class 52 Rating, Deduct	-773.66	
For Class 54 Rating, Add	1,076.62	
For Class 55 Rating, Add	1,611.68	
For Class 56 Rating, Add	2,139.70	
40 05 19 00-0923 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,203.07	1,193.38
For Class 52 Rating, Deduct	-813.44	
For Class 54 Rating, Add	1,130.93	
For Class 55 Rating, Add	1,692.46	
For Class 56 Rating, Add	2,246.59	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0924	EA		24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,570.63	1,197.33
			<i>For Class 52 Rating, Deduct</i>	-853.22	
			<i>For Class 54 Rating, Add</i>	1,185.24	
			<i>For Class 55 Rating, Add</i>	1,773.24	
			<i>For Class 56 Rating, Add</i>	2,353.48	
40 05 19 00-0925	EA		24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,938.20	1,201.27
			<i>For Class 52 Rating, Deduct</i>	-892.99	
			<i>For Class 54 Rating, Add</i>	1,239.56	
			<i>For Class 55 Rating, Add</i>	1,854.02	
			<i>For Class 56 Rating, Add</i>	2,460.36	
40 05 19 00-0926	EA		24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,305.78	1,205.20
			<i>For Class 52 Rating, Deduct</i>	-932.77	
			<i>For Class 54 Rating, Add</i>	1,293.87	
			<i>For Class 55 Rating, Add</i>	1,934.80	
			<i>For Class 56 Rating, Add</i>	2,567.25	
40 05 19 00-0927	EA		24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,673.34	1,209.14
			<i>For Class 52 Rating, Deduct</i>	-972.54	
			<i>For Class 54 Rating, Add</i>	1,348.18	
			<i>For Class 55 Rating, Add</i>	2,015.58	
			<i>For Class 56 Rating, Add</i>	2,674.14	
40 05 19 00-0928	EA		24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,040.91	1,213.08
			<i>For Class 52 Rating, Deduct</i>	-1,012.32	
			<i>For Class 54 Rating, Add</i>	1,402.49	
			<i>For Class 55 Rating, Add</i>	2,096.36	
			<i>For Class 56 Rating, Add</i>	2,781.03	
40 05 19 00-0929	EA		24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,408.49	1,217.03
			<i>For Class 52 Rating, Deduct</i>	-1,052.10	
			<i>For Class 54 Rating, Add</i>	1,456.81	
			<i>For Class 55 Rating, Add</i>	2,177.14	
			<i>For Class 56 Rating, Add</i>	2,887.92	
40 05 19 00-0930	EA		24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,776.06	1,220.96
			<i>For Class 52 Rating, Deduct</i>	-1,091.87	
			<i>For Class 54 Rating, Add</i>	1,511.12	
			<i>For Class 55 Rating, Add</i>	2,257.92	
			<i>For Class 56 Rating, Add</i>	2,994.80	
40 05 19 00-0931	EA		24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,143.62	1,224.90
			<i>For Class 52 Rating, Deduct</i>	-1,131.65	
			<i>For Class 54 Rating, Add</i>	1,565.43	
			<i>For Class 55 Rating, Add</i>	2,338.70	
			<i>For Class 56 Rating, Add</i>	3,101.69	
40 05 19 00-0932	EA		24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,511.20	1,228.84
			<i>For Class 52 Rating, Deduct</i>	-1,171.43	
			<i>For Class 54 Rating, Add</i>	1,619.74	
			<i>For Class 55 Rating, Add</i>	2,419.49	
			<i>For Class 56 Rating, Add</i>	3,208.58	
40 05 19 00-0933	EA		24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,878.78	1,232.77
			<i>For Class 52 Rating, Deduct</i>	-1,211.20	
			<i>For Class 54 Rating, Add</i>	1,674.05	
			<i>For Class 55 Rating, Add</i>	2,500.27	
			<i>For Class 56 Rating, Add</i>	3,315.47	
40 05 19 00-0934	EA		24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,246.34	1,236.72
			<i>For Class 52 Rating, Deduct</i>	-1,250.98	
			<i>For Class 54 Rating, Add</i>	1,728.37	
			<i>For Class 55 Rating, Add</i>	2,581.05	
			<i>For Class 56 Rating, Add</i>	3,422.35	
40 05 19 00-0935	EA		24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,613.92	1,240.66
			<i>For Class 52 Rating, Deduct</i>	-1,290.76	
			<i>For Class 54 Rating, Add</i>	1,782.68	
			<i>For Class 55 Rating, Add</i>	2,661.83	
			<i>For Class 56 Rating, Add</i>	3,529.24	
40 05 19 00-0936	EA		24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,981.49	1,244.59
			<i>For Class 52 Rating, Deduct</i>	-1,330.53	
			<i>For Class 54 Rating, Add</i>	1,836.99	
			<i>For Class 55 Rating, Add</i>	2,742.61	
			<i>For Class 56 Rating, Add</i>	3,636.13	
40 05 19 00-0937	EA		24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,349.05	1,248.53
			<i>For Class 52 Rating, Deduct</i>	-1,370.31	
			<i>For Class 54 Rating, Add</i>	1,891.30	
			<i>For Class 55 Rating, Add</i>	2,823.39	
			<i>For Class 56 Rating, Add</i>	3,743.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0938 EA 24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	14,716.63	1,252.47
For Class 52 Rating, Deduct	-1,410.08	
For Class 54 Rating, Add	1,945.61	
For Class 55 Rating, Add	2,904.17	
For Class 56 Rating, Add	3,849.91	
40 05 19 00-0939 EA 24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	15,084.20	1,256.40
For Class 52 Rating, Deduct	-1,449.86	
For Class 54 Rating, Add	1,999.93	
For Class 55 Rating, Add	2,984.95	
For Class 56 Rating, Add	3,956.79	
40 05 19 00-0940 EA 24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	15,451.77	1,260.35
For Class 52 Rating, Deduct	-1,489.64	
For Class 54 Rating, Add	2,054.24	
For Class 55 Rating, Add	3,065.73	
For Class 56 Rating, Add	4,063.68	
40 05 19 00-0941 EA 24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	15,920.79	1,331.24
For Class 52 Rating, Deduct	-1,529.41	
For Class 54 Rating, Add	2,109.77	
For Class 55 Rating, Add	3,148.95	
For Class 56 Rating, Add	4,174.22	
40 05 19 00-0942 EA 24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	16,288.36	1,335.18
For Class 52 Rating, Deduct	-1,569.19	
For Class 54 Rating, Add	2,164.08	
For Class 55 Rating, Add	3,229.73	
For Class 56 Rating, Add	4,281.11	
40 05 19 00-0943 EA 24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	16,655.93	1,339.11
For Class 52 Rating, Deduct	-1,608.97	
For Class 54 Rating, Add	2,218.39	
For Class 55 Rating, Add	3,310.51	
For Class 56 Rating, Add	4,388.00	
40 05 19 00-0944 EA 24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	17,023.50	1,343.05
For Class 52 Rating, Deduct	-1,648.74	
For Class 54 Rating, Add	2,272.70	
For Class 55 Rating, Add	3,391.29	
For Class 56 Rating, Add	4,494.89	
40 05 19 00-0945 EA 24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	17,391.07	1,347.00
For Class 52 Rating, Deduct	-1,688.52	
For Class 54 Rating, Add	2,327.02	
For Class 55 Rating, Add	3,472.07	
For Class 56 Rating, Add	4,601.77	
40 05 19 00-0946 EA 24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	17,758.65	1,350.93
For Class 52 Rating, Deduct	-1,728.30	
For Class 54 Rating, Add	2,381.33	
For Class 55 Rating, Add	3,552.85	
For Class 56 Rating, Add	4,708.66	
40 05 19 00-0947 EA 24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	18,126.21	1,354.87
For Class 52 Rating, Deduct	-1,768.07	
For Class 54 Rating, Add	2,435.64	
For Class 55 Rating, Add	3,633.63	
For Class 56 Rating, Add	4,815.55	
40 05 19 00-0948 EA 24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	18,493.78	1,358.81
For Class 52 Rating, Deduct	-1,807.85	
For Class 54 Rating, Add	2,489.95	
For Class 55 Rating, Add	3,714.41	
For Class 56 Rating, Add	4,922.44	
40 05 19 00-0949 EA 24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	18,861.36	1,362.74
For Class 52 Rating, Deduct	-1,847.62	
For Class 54 Rating, Add	2,544.27	
For Class 55 Rating, Add	3,795.19	
For Class 56 Rating, Add	5,029.33	
<b>40 05 19 00-0950 30" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0554)</small>		
40 05 19 00-0951 EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	7,914.40	1,622.69
For Class 52 Rating, Deduct	-600.13	
For Class 54 Rating, Add	847.87	
For Class 55 Rating, Add	1,275.64	
For Class 56 Rating, Add	1,697.96	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0952	EA		30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,442.69	1,626.64
			<i>For Class 52 Rating, Deduct</i>	-657.59	
			<i>For Class 54 Rating, Add</i>	926.29	
			<i>For Class 55 Rating, Add</i>	1,392.26	
			<i>For Class 56 Rating, Add</i>	1,852.26	
40 05 19 00-0953	EA		30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,970.97	1,630.57
			<i>For Class 52 Rating, Deduct</i>	-715.04	
			<i>For Class 54 Rating, Add</i>	1,004.71	
			<i>For Class 55 Rating, Add</i>	1,508.88	
			<i>For Class 56 Rating, Add</i>	2,006.56	
40 05 19 00-0954	EA		30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,499.25	1,634.51
			<i>For Class 52 Rating, Deduct</i>	-772.50	
			<i>For Class 54 Rating, Add</i>	1,083.13	
			<i>For Class 55 Rating, Add</i>	1,625.50	
			<i>For Class 56 Rating, Add</i>	2,160.86	
40 05 19 00-0955	EA		30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,027.54	1,638.45
			<i>For Class 52 Rating, Deduct</i>	-829.95	
			<i>For Class 54 Rating, Add</i>	1,161.55	
			<i>For Class 55 Rating, Add</i>	1,742.12	
			<i>For Class 56 Rating, Add</i>	2,315.16	
40 05 19 00-0956	EA		30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,555.82	1,642.38
			<i>For Class 52 Rating, Deduct</i>	-887.41	
			<i>For Class 54 Rating, Add</i>	1,239.96	
			<i>For Class 55 Rating, Add</i>	1,858.74	
			<i>For Class 56 Rating, Add</i>	2,469.45	
40 05 19 00-0957	EA		30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,084.10	1,646.33
			<i>For Class 52 Rating, Deduct</i>	-944.86	
			<i>For Class 54 Rating, Add</i>	1,318.38	
			<i>For Class 55 Rating, Add</i>	1,975.36	
			<i>For Class 56 Rating, Add</i>	2,623.75	
40 05 19 00-0958	EA		30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,612.38	1,650.27
			<i>For Class 52 Rating, Deduct</i>	-1,002.32	
			<i>For Class 54 Rating, Add</i>	1,396.80	
			<i>For Class 55 Rating, Add</i>	2,091.98	
			<i>For Class 56 Rating, Add</i>	2,778.05	
40 05 19 00-0959	EA		30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,140.67	1,654.20
			<i>For Class 52 Rating, Deduct</i>	-1,059.77	
			<i>For Class 54 Rating, Add</i>	1,475.22	
			<i>For Class 55 Rating, Add</i>	2,208.60	
			<i>For Class 56 Rating, Add</i>	2,932.35	
40 05 19 00-0960	EA		30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,668.95	1,658.14
			<i>For Class 52 Rating, Deduct</i>	-1,117.23	
			<i>For Class 54 Rating, Add</i>	1,553.64	
			<i>For Class 55 Rating, Add</i>	2,325.22	
			<i>For Class 56 Rating, Add</i>	3,086.65	
40 05 19 00-0961	EA		30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,197.23	1,662.08
			<i>For Class 52 Rating, Deduct</i>	-1,174.68	
			<i>For Class 54 Rating, Add</i>	1,632.06	
			<i>For Class 55 Rating, Add</i>	2,441.84	
			<i>For Class 56 Rating, Add</i>	3,240.94	
40 05 19 00-0962	EA		30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,725.52	1,666.01
			<i>For Class 52 Rating, Deduct</i>	-1,232.14	
			<i>For Class 54 Rating, Add</i>	1,710.48	
			<i>For Class 55 Rating, Add</i>	2,558.46	
			<i>For Class 56 Rating, Add</i>	3,395.24	
40 05 19 00-0963	EA		30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,253.80	1,669.96
			<i>For Class 52 Rating, Deduct</i>	-1,289.59	
			<i>For Class 54 Rating, Add</i>	1,788.90	
			<i>For Class 55 Rating, Add</i>	2,675.08	
			<i>For Class 56 Rating, Add</i>	3,549.54	
40 05 19 00-0964	EA		30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,782.08	1,673.90
			<i>For Class 52 Rating, Deduct</i>	-1,347.05	
			<i>For Class 54 Rating, Add</i>	1,867.32	
			<i>For Class 55 Rating, Add</i>	2,791.70	
			<i>For Class 56 Rating, Add</i>	3,703.84	
40 05 19 00-0965	EA		30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,310.37	1,677.83
			<i>For Class 52 Rating, Deduct</i>	-1,404.50	
			<i>For Class 54 Rating, Add</i>	1,945.74	
			<i>For Class 55 Rating, Add</i>	2,908.32	
			<i>For Class 56 Rating, Add</i>	3,858.14	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0966 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	15,838.66	1,681.77
For Class 52 Rating, Deduct	-1,461.96	
For Class 54 Rating, Add	2,024.15	
For Class 55 Rating, Add	3,024.94	
For Class 56 Rating, Add	4,012.43	
40 05 19 00-0967 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	16,366.94	1,685.71
For Class 52 Rating, Deduct	-1,519.41	
For Class 54 Rating, Add	2,102.57	
For Class 55 Rating, Add	3,141.56	
For Class 56 Rating, Add	4,166.73	
40 05 19 00-0968 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	16,895.22	1,689.65
For Class 52 Rating, Deduct	-1,576.87	
For Class 54 Rating, Add	2,180.99	
For Class 55 Rating, Add	3,258.18	
For Class 56 Rating, Add	4,321.03	
40 05 19 00-0969 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	17,423.51	1,693.59
For Class 52 Rating, Deduct	-1,634.32	
For Class 54 Rating, Add	2,259.41	
For Class 55 Rating, Add	3,374.80	
For Class 56 Rating, Add	4,475.33	
40 05 19 00-0970 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	17,951.79	1,697.53
For Class 52 Rating, Deduct	-1,691.78	
For Class 54 Rating, Add	2,337.83	
For Class 55 Rating, Add	3,491.42	
For Class 56 Rating, Add	4,629.63	
40 05 19 00-0971 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	18,480.07	1,701.47
For Class 52 Rating, Deduct	-1,749.23	
For Class 54 Rating, Add	2,416.25	
For Class 55 Rating, Add	3,608.04	
For Class 56 Rating, Add	4,783.92	
40 05 19 00-0972 EA 30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	19,008.36	1,705.40
For Class 52 Rating, Deduct	-1,806.69	
For Class 54 Rating, Add	2,494.67	
For Class 55 Rating, Add	3,724.66	
For Class 56 Rating, Add	4,938.22	
40 05 19 00-0973 EA 30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	19,536.64	1,709.34
For Class 52 Rating, Deduct	-1,864.14	
For Class 54 Rating, Add	2,573.09	
For Class 55 Rating, Add	3,841.28	
For Class 56 Rating, Add	5,092.52	
40 05 19 00-0974 EA 30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	20,064.92	1,713.29
For Class 52 Rating, Deduct	-1,921.59	
For Class 54 Rating, Add	2,651.51	
For Class 55 Rating, Add	3,957.90	
For Class 56 Rating, Add	5,246.82	
40 05 19 00-0975 EA 30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	20,593.21	1,717.22
For Class 52 Rating, Deduct	-1,979.05	
For Class 54 Rating, Add	2,729.93	
For Class 55 Rating, Add	4,074.52	
For Class 56 Rating, Add	5,401.12	
40 05 19 00-0976 EA 30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	21,121.49	1,721.16
For Class 52 Rating, Deduct	-2,036.50	
For Class 54 Rating, Add	2,808.34	
For Class 55 Rating, Add	4,191.14	
For Class 56 Rating, Add	5,555.41	
40 05 19 00-0977 EA 30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	21,649.77	1,725.10
For Class 52 Rating, Deduct	-2,093.96	
For Class 54 Rating, Add	2,886.76	
For Class 55 Rating, Add	4,307.76	
For Class 56 Rating, Add	5,709.71	
40 05 19 00-0978 EA 30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	22,178.06	1,729.03
For Class 52 Rating, Deduct	-2,151.41	
For Class 54 Rating, Add	2,965.18	
For Class 55 Rating, Add	4,424.38	
For Class 56 Rating, Add	5,864.01	
40 05 19 00-0979 EA 30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	22,706.34	1,732.98
For Class 52 Rating, Deduct	-2,208.87	
For Class 54 Rating, Add	3,043.60	
For Class 55 Rating, Add	4,541.00	
For Class 56 Rating, Add	6,018.31	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0980	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,234.62	1,736.92
			<i>For Class 52 Rating, Deduct</i>	-2,266.32	
			<i>For Class 54 Rating, Add</i>	3,122.02	
			<i>For Class 55 Rating, Add</i>	4,657.62	
			<i>For Class 56 Rating, Add</i>	6,172.61	
40 05 19 00-0981	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,762.90	1,740.85
			<i>For Class 52 Rating, Deduct</i>	-2,323.78	
			<i>For Class 54 Rating, Add</i>	3,200.44	
			<i>For Class 55 Rating, Add</i>	4,774.23	
			<i>For Class 56 Rating, Add</i>	6,326.90	
40 05 19 00-0982	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,291.19	1,744.79
			<i>For Class 52 Rating, Deduct</i>	-2,381.23	
			<i>For Class 54 Rating, Add</i>	3,278.86	
			<i>For Class 55 Rating, Add</i>	4,890.85	
			<i>For Class 56 Rating, Add</i>	6,481.20	
40 05 19 00-0983	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,819.48	1,748.73
			<i>For Class 52 Rating, Deduct</i>	-2,438.69	
			<i>For Class 54 Rating, Add</i>	3,357.28	
			<i>For Class 55 Rating, Add</i>	5,007.48	
			<i>For Class 56 Rating, Add</i>	6,635.50	
40 05 19 00-0984	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,347.75	1,752.66
			<i>For Class 52 Rating, Deduct</i>	-2,496.14	
			<i>For Class 54 Rating, Add</i>	3,435.70	
			<i>For Class 55 Rating, Add</i>	5,124.09	
			<i>For Class 56 Rating, Add</i>	6,789.80	
40 05 19 00-0985	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,876.05	1,756.61
			<i>For Class 52 Rating, Deduct</i>	-2,553.60	
			<i>For Class 54 Rating, Add</i>	3,514.12	
			<i>For Class 55 Rating, Add</i>	5,240.71	
			<i>For Class 56 Rating, Add</i>	6,944.10	
40 05 19 00-0986	EA		30" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,404.33	1,760.55
			<i>For Class 52 Rating, Deduct</i>	-2,611.05	
			<i>For Class 54 Rating, Add</i>	3,592.53	
			<i>For Class 55 Rating, Add</i>	5,357.33	
			<i>For Class 56 Rating, Add</i>	7,098.39	
40 05 19 00-0987	EA		30" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,932.61	1,764.48
			<i>For Class 52 Rating, Deduct</i>	-2,668.51	
			<i>For Class 54 Rating, Add</i>	3,670.95	
			<i>For Class 55 Rating, Add</i>	5,473.95	
			<i>For Class 56 Rating, Add</i>	7,252.69	
40 05 19 00-0988	EA		30" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,460.90	1,768.42
			<i>For Class 52 Rating, Deduct</i>	-2,725.96	
			<i>For Class 54 Rating, Add</i>	3,749.37	
			<i>For Class 55 Rating, Add</i>	5,590.57	
			<i>For Class 56 Rating, Add</i>	7,406.99	
40 05 19 00-0989			<b>36" Flanged End x Grooved End (FxG), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0554)</small>		
40 05 19 00-0990	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,806.01	2,055.94
			<i>For Class 52 Rating, Deduct</i>	-846.00	
			<i>For Class 54 Rating, Add</i>	1,191.02	
			<i>For Class 55 Rating, Add</i>	1,789.84	
			<i>For Class 56 Rating, Add</i>	2,380.97	
40 05 19 00-0991	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,522.49	2,059.88
			<i>For Class 52 Rating, Deduct</i>	-924.16	
			<i>For Class 54 Rating, Add</i>	1,297.67	
			<i>For Class 55 Rating, Add</i>	1,948.43	
			<i>For Class 56 Rating, Add</i>	2,590.79	
40 05 19 00-0992	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,238.98	2,063.82
			<i>For Class 52 Rating, Deduct</i>	-1,002.32	
			<i>For Class 54 Rating, Add</i>	1,404.32	
			<i>For Class 55 Rating, Add</i>	2,107.02	
			<i>For Class 56 Rating, Add</i>	2,800.61	
40 05 19 00-0993	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,955.46	2,067.75
			<i>For Class 52 Rating, Deduct</i>	-1,080.48	
			<i>For Class 54 Rating, Add</i>	1,510.97	
			<i>For Class 55 Rating, Add</i>	2,265.61	
			<i>For Class 56 Rating, Add</i>	3,010.42	





<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-0994 EA 36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,671.95	2,071.69
For Class 52 Rating, Deduct	-1,158.63	
For Class 54 Rating, Add	1,617.62	
For Class 55 Rating, Add	2,424.20	
For Class 56 Rating, Add	3,220.24	
40 05 19 00-0995 EA 36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,388.44	2,075.64
For Class 52 Rating, Deduct	-1,236.79	
For Class 54 Rating, Add	1,724.27	
For Class 55 Rating, Add	2,582.79	
For Class 56 Rating, Add	3,430.06	
40 05 19 00-0996 EA 36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,104.93	2,079.57
For Class 52 Rating, Deduct	-1,314.95	
For Class 54 Rating, Add	1,830.92	
For Class 55 Rating, Add	2,741.38	
For Class 56 Rating, Add	3,639.88	
40 05 19 00-0997 EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,821.41	2,083.51
For Class 52 Rating, Deduct	-1,393.10	
For Class 54 Rating, Add	1,937.57	
For Class 55 Rating, Add	2,899.97	
For Class 56 Rating, Add	3,849.70	
40 05 19 00-0998 EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,537.90	2,087.45
For Class 52 Rating, Deduct	-1,471.26	
For Class 54 Rating, Add	2,044.22	
For Class 55 Rating, Add	3,058.55	
For Class 56 Rating, Add	4,059.52	
40 05 19 00-0999 EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,254.39	2,091.38
For Class 52 Rating, Deduct	-1,549.42	
For Class 54 Rating, Add	2,150.87	
For Class 55 Rating, Add	3,217.14	
For Class 56 Rating, Add	4,269.33	
40 05 19 00-1000 EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,970.87	2,095.32
For Class 52 Rating, Deduct	-1,627.58	
For Class 54 Rating, Add	2,257.52	
For Class 55 Rating, Add	3,375.73	
For Class 56 Rating, Add	4,479.15	
40 05 19 00-1001 EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,687.36	2,099.27
For Class 52 Rating, Deduct	-1,705.73	
For Class 54 Rating, Add	2,364.17	
For Class 55 Rating, Add	3,534.32	
For Class 56 Rating, Add	4,688.97	
40 05 19 00-1002 EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,403.84	2,103.20
For Class 52 Rating, Deduct	-1,783.89	
For Class 54 Rating, Add	2,470.82	
For Class 55 Rating, Add	3,692.91	
For Class 56 Rating, Add	4,898.79	
40 05 19 00-1003 EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,120.32	2,107.14
For Class 52 Rating, Deduct	-1,862.05	
For Class 54 Rating, Add	2,577.47	
For Class 55 Rating, Add	3,851.50	
For Class 56 Rating, Add	5,108.60	
40 05 19 00-1004 EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,836.81	2,111.08
For Class 52 Rating, Deduct	-1,940.20	
For Class 54 Rating, Add	2,684.11	
For Class 55 Rating, Add	4,010.09	
For Class 56 Rating, Add	5,318.42	
40 05 19 00-1005 EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,553.30	2,115.01
For Class 52 Rating, Deduct	-2,018.36	
For Class 54 Rating, Add	2,790.76	
For Class 55 Rating, Add	4,168.68	
For Class 56 Rating, Add	5,528.24	
40 05 19 00-1006 EA 36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,269.79	2,118.96
For Class 52 Rating, Deduct	-2,096.52	
For Class 54 Rating, Add	2,897.41	
For Class 55 Rating, Add	4,327.27	
For Class 56 Rating, Add	5,738.06	
40 05 19 00-1007 EA 36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,986.27	2,122.90
For Class 52 Rating, Deduct	-2,174.67	
For Class 54 Rating, Add	3,004.06	
For Class 55 Rating, Add	4,485.85	
For Class 56 Rating, Add	5,947.88	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1008	EA		36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,702.76	2,126.83
			<i>For Class 52 Rating, Deduct</i>	-2,252.83	
			<i>For Class 54 Rating, Add</i>	3,110.71	
			<i>For Class 55 Rating, Add</i>	4,644.44	
			<i>For Class 56 Rating, Add</i>	6,157.69	
40 05 19 00-1009	EA		36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,419.26	2,130.77
			<i>For Class 52 Rating, Deduct</i>	-2,330.99	
			<i>For Class 54 Rating, Add</i>	3,217.36	
			<i>For Class 55 Rating, Add</i>	4,803.03	
			<i>For Class 56 Rating, Add</i>	6,367.51	
40 05 19 00-1010	EA		36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,135.74	2,134.71
			<i>For Class 52 Rating, Deduct</i>	-2,409.15	
			<i>For Class 54 Rating, Add</i>	3,324.01	
			<i>For Class 55 Rating, Add</i>	4,961.62	
			<i>For Class 56 Rating, Add</i>	6,577.33	
40 05 19 00-1011	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,852.23	2,138.64
			<i>For Class 52 Rating, Deduct</i>	-2,487.30	
			<i>For Class 54 Rating, Add</i>	3,430.66	
			<i>For Class 55 Rating, Add</i>	5,120.21	
			<i>For Class 56 Rating, Add</i>	6,787.15	
40 05 19 00-1012	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,568.71	2,142.59
			<i>For Class 52 Rating, Deduct</i>	-2,565.46	
			<i>For Class 54 Rating, Add</i>	3,537.31	
			<i>For Class 55 Rating, Add</i>	5,278.80	
			<i>For Class 56 Rating, Add</i>	6,996.96	
40 05 19 00-1013	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,285.19	2,146.53
			<i>For Class 52 Rating, Deduct</i>	-2,643.62	
			<i>For Class 54 Rating, Add</i>	3,643.96	
			<i>For Class 55 Rating, Add</i>	5,437.39	
			<i>For Class 56 Rating, Add</i>	7,206.78	
40 05 19 00-1014	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,001.68	2,150.46
			<i>For Class 52 Rating, Deduct</i>	-2,721.77	
			<i>For Class 54 Rating, Add</i>	3,750.61	
			<i>For Class 55 Rating, Add</i>	5,595.98	
			<i>For Class 56 Rating, Add</i>	7,416.60	
40 05 19 00-1015	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,718.17	2,154.40
			<i>For Class 52 Rating, Deduct</i>	-2,799.93	
			<i>For Class 54 Rating, Add</i>	3,857.26	
			<i>For Class 55 Rating, Add</i>	5,754.57	
			<i>For Class 56 Rating, Add</i>	7,626.42	
40 05 19 00-1016	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,434.66	2,158.34
			<i>For Class 52 Rating, Deduct</i>	-2,878.09	
			<i>For Class 54 Rating, Add</i>	3,963.91	
			<i>For Class 55 Rating, Add</i>	5,913.16	
			<i>For Class 56 Rating, Add</i>	7,836.24	
40 05 19 00-1017	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,151.14	2,162.28
			<i>For Class 52 Rating, Deduct</i>	-2,956.25	
			<i>For Class 54 Rating, Add</i>	4,070.56	
			<i>For Class 55 Rating, Add</i>	6,071.74	
			<i>For Class 56 Rating, Add</i>	8,046.06	
40 05 19 00-1018	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,867.63	2,166.22
			<i>For Class 52 Rating, Deduct</i>	-3,034.40	
			<i>For Class 54 Rating, Add</i>	4,177.21	
			<i>For Class 55 Rating, Add</i>	6,230.33	
			<i>For Class 56 Rating, Add</i>	8,255.87	
40 05 19 00-1019	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,584.12	2,170.16
			<i>For Class 52 Rating, Deduct</i>	-3,112.56	
			<i>For Class 54 Rating, Add</i>	4,283.86	
			<i>For Class 55 Rating, Add</i>	6,388.92	
			<i>For Class 56 Rating, Add</i>	8,465.69	
40 05 19 00-1020	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,300.60	2,174.09
			<i>For Class 52 Rating, Deduct</i>	-3,190.72	
			<i>For Class 54 Rating, Add</i>	4,390.51	
			<i>For Class 55 Rating, Add</i>	6,547.51	
			<i>For Class 56 Rating, Add</i>	8,675.51	
40 05 19 00-1021	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,017.09	2,178.03
			<i>For Class 52 Rating, Deduct</i>	-3,268.87	
			<i>For Class 54 Rating, Add</i>	4,497.16	
			<i>For Class 55 Rating, Add</i>	6,706.10	
			<i>For Class 56 Rating, Add</i>	8,885.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1022 EA 36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,733.58	2,181.97
For Class 52 Rating, Deduct	-3,347.03	
For Class 54 Rating, Add	4,603.81	
For Class 55 Rating, Add	6,864.69	
For Class 56 Rating, Add	9,095.15	
40 05 19 00-1023 EA 36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,450.05	2,185.92
For Class 52 Rating, Deduct	-3,425.19	
For Class 54 Rating, Add	4,710.45	
For Class 55 Rating, Add	7,023.28	
For Class 56 Rating, Add	9,304.96	
40 05 19 00-1024 EA 36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,166.54	2,189.85
For Class 52 Rating, Deduct	-3,503.34	
For Class 54 Rating, Add	4,817.10	
For Class 55 Rating, Add	7,181.87	
For Class 56 Rating, Add	9,514.78	
40 05 19 00-1025 EA 36" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,883.03	2,193.79
For Class 52 Rating, Deduct	-3,581.50	
For Class 54 Rating, Add	4,923.75	
For Class 55 Rating, Add	7,340.46	
For Class 56 Rating, Add	9,724.60	
40 05 19 00-1026 EA 36" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,599.52	2,197.73
For Class 52 Rating, Deduct	-3,659.66	
For Class 54 Rating, Add	5,030.40	
For Class 55 Rating, Add	7,499.04	
For Class 56 Rating, Add	9,934.42	
40 05 19 00-1027 EA 36" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,316.00	2,201.66
For Class 52 Rating, Deduct	-3,737.82	
For Class 54 Rating, Add	5,137.05	
For Class 55 Rating, Add	7,657.63	
For Class 56 Rating, Add	10,144.23	
<b>40 05 19 00-1028 Flanged End x Plain End (FxPE), Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-0001)</small>		
<b>40 05 19 00-1029 4" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1030 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	598.46	192.62
For Class 52 Rating, Deduct	-33.73	
For Class 54 Rating, Add	49.50	
For Class 55 Rating, Add	75.38	
For Class 56 Rating, Add	100.96	
40 05 19 00-1031 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	658.55	195.99
For Class 52 Rating, Deduct	-39.78	
For Class 54 Rating, Add	57.80	
For Class 55 Rating, Add	87.76	
For Class 56 Rating, Add	117.36	
40 05 19 00-1032 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	718.63	199.36
For Class 52 Rating, Deduct	-45.82	
For Class 54 Rating, Add	66.11	
For Class 55 Rating, Add	100.15	
For Class 56 Rating, Add	133.76	
40 05 19 00-1033 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	778.71	202.72
For Class 52 Rating, Deduct	-51.87	
For Class 54 Rating, Add	74.42	
For Class 55 Rating, Add	112.53	
For Class 56 Rating, Add	150.17	
40 05 19 00-1034 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	838.80	206.09
For Class 52 Rating, Deduct	-57.92	
For Class 54 Rating, Add	82.73	
For Class 55 Rating, Add	124.91	
For Class 56 Rating, Add	166.57	
40 05 19 00-1035 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	898.89	209.46
For Class 52 Rating, Deduct	-63.97	
For Class 54 Rating, Add	91.04	
For Class 55 Rating, Add	137.30	
For Class 56 Rating, Add	182.98	
40 05 19 00-1036 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	958.97	212.83
For Class 52 Rating, Deduct	-70.02	
For Class 54 Rating, Add	99.35	
For Class 55 Rating, Add	149.68	
For Class 56 Rating, Add	199.38	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1037	EA		4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,019.05	216.19
			<i>For Class 52 Rating, Deduct</i>	-76.06	
			<i>For Class 54 Rating, Add</i>	107.65	
			<i>For Class 55 Rating, Add</i>	162.06	
			<i>For Class 56 Rating, Add</i>	215.78	
40 05 19 00-1038	EA		4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,079.13	219.56
			<i>For Class 52 Rating, Deduct</i>	-82.11	
			<i>For Class 54 Rating, Add</i>	115.96	
			<i>For Class 55 Rating, Add</i>	174.45	
			<i>For Class 56 Rating, Add</i>	232.18	
40 05 19 00-1039	EA		4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,139.21	222.93
			<i>For Class 52 Rating, Deduct</i>	-88.16	
			<i>For Class 54 Rating, Add</i>	124.27	
			<i>For Class 55 Rating, Add</i>	186.83	
			<i>For Class 56 Rating, Add</i>	248.59	
40 05 19 00-1040	EA		4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,199.30	226.29
			<i>For Class 52 Rating, Deduct</i>	-94.21	
			<i>For Class 54 Rating, Add</i>	132.58	
			<i>For Class 55 Rating, Add</i>	199.21	
			<i>For Class 56 Rating, Add</i>	264.99	
40 05 19 00-1041	EA		4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,259.38	229.66
			<i>For Class 52 Rating, Deduct</i>	-100.26	
			<i>For Class 54 Rating, Add</i>	140.89	
			<i>For Class 55 Rating, Add</i>	211.60	
			<i>For Class 56 Rating, Add</i>	281.39	
40 05 19 00-1042	EA		4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,319.46	233.03
			<i>For Class 52 Rating, Deduct</i>	-106.30	
			<i>For Class 54 Rating, Add</i>	149.20	
			<i>For Class 55 Rating, Add</i>	223.98	
			<i>For Class 56 Rating, Add</i>	297.80	
40 05 19 00-1043	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,379.54	236.40
			<i>For Class 52 Rating, Deduct</i>	-112.35	
			<i>For Class 54 Rating, Add</i>	157.50	
			<i>For Class 55 Rating, Add</i>	236.36	
			<i>For Class 56 Rating, Add</i>	314.20	
40 05 19 00-1044	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,439.62	239.76
			<i>For Class 52 Rating, Deduct</i>	-118.40	
			<i>For Class 54 Rating, Add</i>	165.81	
			<i>For Class 55 Rating, Add</i>	248.74	
			<i>For Class 56 Rating, Add</i>	330.60	
40 05 19 00-1045	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,499.71	243.13
			<i>For Class 52 Rating, Deduct</i>	-124.45	
			<i>For Class 54 Rating, Add</i>	174.12	
			<i>For Class 55 Rating, Add</i>	261.13	
			<i>For Class 56 Rating, Add</i>	347.00	
40 05 19 00-1046	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,559.79	246.51
			<i>For Class 52 Rating, Deduct</i>	-130.49	
			<i>For Class 54 Rating, Add</i>	182.43	
			<i>For Class 55 Rating, Add</i>	273.51	
			<i>For Class 56 Rating, Add</i>	363.41	
40 05 19 00-1047	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,619.87	249.86
			<i>For Class 52 Rating, Deduct</i>	-136.54	
			<i>For Class 54 Rating, Add</i>	190.74	
			<i>For Class 55 Rating, Add</i>	285.89	
			<i>For Class 56 Rating, Add</i>	379.81	
40 05 19 00-1048	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,679.95	253.24
			<i>For Class 52 Rating, Deduct</i>	-142.59	
			<i>For Class 54 Rating, Add</i>	199.04	
			<i>For Class 55 Rating, Add</i>	298.28	
			<i>For Class 56 Rating, Add</i>	396.21	
40 05 19 00-1049	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,740.05	256.60
			<i>For Class 52 Rating, Deduct</i>	-148.64	
			<i>For Class 54 Rating, Add</i>	207.35	
			<i>For Class 55 Rating, Add</i>	310.66	
			<i>For Class 56 Rating, Add</i>	412.62	
40 05 19 00-1050	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,800.13	259.98
			<i>For Class 52 Rating, Deduct</i>	-154.69	
			<i>For Class 54 Rating, Add</i>	215.66	
			<i>For Class 55 Rating, Add</i>	323.04	
			<i>For Class 56 Rating, Add</i>	429.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1051 EA 4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,860.21	263.33
For Class 52 Rating, Deduct	-160.73	
For Class 54 Rating, Add	223.97	
For Class 55 Rating, Add	335.43	
For Class 56 Rating, Add	445.42	
40 05 19 00-1052 EA 4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,920.29	266.71
For Class 52 Rating, Deduct	-166.78	
For Class 54 Rating, Add	232.28	
For Class 55 Rating, Add	347.81	
For Class 56 Rating, Add	461.83	
40 05 19 00-1053 EA 4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,980.37	270.07
For Class 52 Rating, Deduct	-172.83	
For Class 54 Rating, Add	240.59	
For Class 55 Rating, Add	360.19	
For Class 56 Rating, Add	478.23	
40 05 19 00-1054 EA 4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,040.46	273.44
For Class 52 Rating, Deduct	-178.88	
For Class 54 Rating, Add	248.90	
For Class 55 Rating, Add	372.58	
For Class 56 Rating, Add	494.63	
40 05 19 00-1055 EA 4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,100.54	276.80
For Class 52 Rating, Deduct	-184.93	
For Class 54 Rating, Add	257.20	
For Class 55 Rating, Add	384.96	
For Class 56 Rating, Add	511.03	
40 05 19 00-1056 EA 4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,160.62	280.18
For Class 52 Rating, Deduct	-190.97	
For Class 54 Rating, Add	265.51	
For Class 55 Rating, Add	397.34	
For Class 56 Rating, Add	527.44	
40 05 19 00-1057 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,220.70	283.54
For Class 52 Rating, Deduct	-197.02	
For Class 54 Rating, Add	273.82	
For Class 55 Rating, Add	409.73	
For Class 56 Rating, Add	543.84	
40 05 19 00-1058 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,280.78	286.91
For Class 52 Rating, Deduct	-203.07	
For Class 54 Rating, Add	282.13	
For Class 55 Rating, Add	422.11	
For Class 56 Rating, Add	560.24	
40 05 19 00-1059 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,340.87	290.27
For Class 52 Rating, Deduct	-209.12	
For Class 54 Rating, Add	290.44	
For Class 55 Rating, Add	434.49	
For Class 56 Rating, Add	576.65	
40 05 19 00-1060 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,400.95	293.65
For Class 52 Rating, Deduct	-215.16	
For Class 54 Rating, Add	298.74	
For Class 55 Rating, Add	446.87	
For Class 56 Rating, Add	593.05	
40 05 19 00-1061 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,461.03	297.02
For Class 52 Rating, Deduct	-221.21	
For Class 54 Rating, Add	307.05	
For Class 55 Rating, Add	459.26	
For Class 56 Rating, Add	609.45	
40 05 19 00-1062 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,521.11	300.38
For Class 52 Rating, Deduct	-227.26	
For Class 54 Rating, Add	315.36	
For Class 55 Rating, Add	471.64	
For Class 56 Rating, Add	625.85	
40 05 19 00-1063 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,581.20	303.75
For Class 52 Rating, Deduct	-233.31	
For Class 54 Rating, Add	323.67	
For Class 55 Rating, Add	484.02	
For Class 56 Rating, Add	642.26	
40 05 19 00-1064 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,641.28	307.12
For Class 52 Rating, Deduct	-239.36	
For Class 54 Rating, Add	331.98	
For Class 55 Rating, Add	496.41	
For Class 56 Rating, Add	658.66	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1065	EA		4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,701.37	310.47
			For Class 52 Rating, Deduct	-245.40	
			For Class 54 Rating, Add	340.29	
			For Class 55 Rating, Add	508.79	
			For Class 56 Rating, Add	675.07	
40 05 19 00-1066	EA		4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,761.45	313.85
			For Class 52 Rating, Deduct	-251.45	
			For Class 54 Rating, Add	348.60	
			For Class 55 Rating, Add	521.17	
			For Class 56 Rating, Add	691.47	
40 05 19 00-1067	EA		4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,821.53	317.22
			For Class 52 Rating, Deduct	-257.50	
			For Class 54 Rating, Add	356.90	
			For Class 55 Rating, Add	533.56	
			For Class 56 Rating, Add	707.87	
40 05 19 00-1068	EA		4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,881.62	320.59
			For Class 52 Rating, Deduct	-263.55	
			For Class 54 Rating, Add	365.21	
			For Class 55 Rating, Add	545.94	
			For Class 56 Rating, Add	724.27	
<b>40 05 19 00-1069</b>			<b>6" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1070	EA		6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	750.11	242.46
			For Class 52 Rating, Deduct	-42.10	
			For Class 54 Rating, Add	61.82	
			For Class 55 Rating, Add	94.17	
			For Class 56 Rating, Add	126.14	
40 05 19 00-1071	EA		6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	822.89	245.84
			For Class 52 Rating, Deduct	-49.55	
			For Class 54 Rating, Add	72.03	
			For Class 55 Rating, Add	109.38	
			For Class 56 Rating, Add	146.28	
40 05 19 00-1072	EA		6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	895.66	249.19
			For Class 52 Rating, Deduct	-56.99	
			For Class 54 Rating, Add	82.24	
			For Class 55 Rating, Add	124.60	
			For Class 56 Rating, Add	166.43	
40 05 19 00-1073	EA		6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	968.43	252.56
			For Class 52 Rating, Deduct	-64.43	
			For Class 54 Rating, Add	92.46	
			For Class 55 Rating, Add	139.81	
			For Class 56 Rating, Add	186.58	
40 05 19 00-1074	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,041.19	255.93
			For Class 52 Rating, Deduct	-71.88	
			For Class 54 Rating, Add	102.67	
			For Class 55 Rating, Add	155.02	
			For Class 56 Rating, Add	206.72	
40 05 19 00-1075	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,113.97	259.29
			For Class 52 Rating, Deduct	-79.32	
			For Class 54 Rating, Add	112.88	
			For Class 55 Rating, Add	170.23	
			For Class 56 Rating, Add	226.87	
40 05 19 00-1076	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,186.74	262.66
			For Class 52 Rating, Deduct	-86.76	
			For Class 54 Rating, Add	123.09	
			For Class 55 Rating, Add	185.45	
			For Class 56 Rating, Add	247.01	
40 05 19 00-1077	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,259.51	266.04
			For Class 52 Rating, Deduct	-94.21	
			For Class 54 Rating, Add	133.30	
			For Class 55 Rating, Add	200.66	
			For Class 56 Rating, Add	267.16	
40 05 19 00-1078	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,332.28	269.40
			For Class 52 Rating, Deduct	-101.65	
			For Class 54 Rating, Add	143.51	
			For Class 55 Rating, Add	215.87	
			For Class 56 Rating, Add	287.30	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1079 EA 6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,405.05	272.77
<i>For Class 52 Rating, Deduct</i>	-109.09	
<i>For Class 54 Rating, Add</i>	153.72	
<i>For Class 55 Rating, Add</i>	231.08	
<i>For Class 56 Rating, Add</i>	307.45	
40 05 19 00-1080 EA 6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,477.82	276.13
<i>For Class 52 Rating, Deduct</i>	-116.54	
<i>For Class 54 Rating, Add</i>	163.94	
<i>For Class 55 Rating, Add</i>	246.29	
<i>For Class 56 Rating, Add</i>	327.59	
40 05 19 00-1081 EA 6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,550.59	279.51
<i>For Class 52 Rating, Deduct</i>	-123.98	
<i>For Class 54 Rating, Add</i>	174.15	
<i>For Class 55 Rating, Add</i>	261.51	
<i>For Class 56 Rating, Add</i>	347.74	
40 05 19 00-1082 EA 6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,623.36	282.86
<i>For Class 52 Rating, Deduct</i>	-131.42	
<i>For Class 54 Rating, Add</i>	184.36	
<i>For Class 55 Rating, Add</i>	276.72	
<i>For Class 56 Rating, Add</i>	367.89	
40 05 19 00-1083 EA 6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,696.13	286.24
<i>For Class 52 Rating, Deduct</i>	-138.87	
<i>For Class 54 Rating, Add</i>	194.57	
<i>For Class 55 Rating, Add</i>	291.93	
<i>For Class 56 Rating, Add</i>	388.03	
40 05 19 00-1084 EA 6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,768.90	289.60
<i>For Class 52 Rating, Deduct</i>	-146.31	
<i>For Class 54 Rating, Add</i>	204.78	
<i>For Class 55 Rating, Add</i>	307.15	
<i>For Class 56 Rating, Add</i>	408.18	
40 05 19 00-1085 EA 6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,841.68	292.98
<i>For Class 52 Rating, Deduct</i>	-153.76	
<i>For Class 54 Rating, Add</i>	214.99	
<i>For Class 55 Rating, Add</i>	322.36	
<i>For Class 56 Rating, Add</i>	428.33	
40 05 19 00-1086 EA 6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,914.45	296.33
<i>For Class 52 Rating, Deduct</i>	-161.20	
<i>For Class 54 Rating, Add</i>	225.21	
<i>For Class 55 Rating, Add</i>	337.57	
<i>For Class 56 Rating, Add</i>	448.47	
40 05 19 00-1087 EA 6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,987.21	299.71
<i>For Class 52 Rating, Deduct</i>	-168.64	
<i>For Class 54 Rating, Add</i>	235.42	
<i>For Class 55 Rating, Add</i>	352.78	
<i>For Class 56 Rating, Add</i>	468.62	
40 05 19 00-1088 EA 6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,059.98	303.07
<i>For Class 52 Rating, Deduct</i>	-176.09	
<i>For Class 54 Rating, Add</i>	245.63	
<i>For Class 55 Rating, Add</i>	367.99	
<i>For Class 56 Rating, Add</i>	488.76	
40 05 19 00-1089 EA 6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,132.76	306.45
<i>For Class 52 Rating, Deduct</i>	-183.53	
<i>For Class 54 Rating, Add</i>	255.84	
<i>For Class 55 Rating, Add</i>	383.21	
<i>For Class 56 Rating, Add</i>	508.91	
40 05 19 00-1090 EA 6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,205.53	309.80
<i>For Class 52 Rating, Deduct</i>	-190.97	
<i>For Class 54 Rating, Add</i>	266.05	
<i>For Class 55 Rating, Add</i>	398.42	
<i>For Class 56 Rating, Add</i>	529.05	
40 05 19 00-1091 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,278.30	313.18
<i>For Class 52 Rating, Deduct</i>	-198.42	
<i>For Class 54 Rating, Add</i>	276.26	
<i>For Class 55 Rating, Add</i>	413.63	
<i>For Class 56 Rating, Add</i>	549.20	
40 05 19 00-1092 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,351.07	316.55
<i>For Class 52 Rating, Deduct</i>	-205.86	
<i>For Class 54 Rating, Add</i>	286.47	
<i>For Class 55 Rating, Add</i>	428.85	
<i>For Class 56 Rating, Add</i>	569.35	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1093	EA		6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,423.83	319.91
			<i>For Class 52 Rating, Deduct</i>	-213.30	
			<i>For Class 54 Rating, Add</i>	296.68	
			<i>For Class 55 Rating, Add</i>	444.06	
			<i>For Class 56 Rating, Add</i>	589.49	
40 05 19 00-1094	EA		6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,496.61	323.28
			<i>For Class 52 Rating, Deduct</i>	-220.75	
			<i>For Class 54 Rating, Add</i>	306.90	
			<i>For Class 55 Rating, Add</i>	459.27	
			<i>For Class 56 Rating, Add</i>	609.64	
40 05 19 00-1095	EA		6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,569.38	326.65
			<i>For Class 52 Rating, Deduct</i>	-228.19	
			<i>For Class 54 Rating, Add</i>	317.11	
			<i>For Class 55 Rating, Add</i>	474.48	
			<i>For Class 56 Rating, Add</i>	629.78	
40 05 19 00-1096	EA		6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,642.15	330.02
			<i>For Class 52 Rating, Deduct</i>	-235.63	
			<i>For Class 54 Rating, Add</i>	327.32	
			<i>For Class 55 Rating, Add</i>	489.70	
			<i>For Class 56 Rating, Add</i>	649.93	
40 05 19 00-1097	EA		6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,714.92	333.38
			<i>For Class 52 Rating, Deduct</i>	-243.08	
			<i>For Class 54 Rating, Add</i>	337.53	
			<i>For Class 55 Rating, Add</i>	504.91	
			<i>For Class 56 Rating, Add</i>	670.08	
40 05 19 00-1098	EA		6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,787.70	336.75
			<i>For Class 52 Rating, Deduct</i>	-250.52	
			<i>For Class 54 Rating, Add</i>	347.74	
			<i>For Class 55 Rating, Add</i>	520.12	
			<i>For Class 56 Rating, Add</i>	690.22	
40 05 19 00-1099	EA		6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,860.47	340.12
			<i>For Class 52 Rating, Deduct</i>	-257.97	
			<i>For Class 54 Rating, Add</i>	357.95	
			<i>For Class 55 Rating, Add</i>	535.33	
			<i>For Class 56 Rating, Add</i>	710.37	
40 05 19 00-1100	EA		6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,933.23	343.48
			<i>For Class 52 Rating, Deduct</i>	-265.41	
			<i>For Class 54 Rating, Add</i>	368.17	
			<i>For Class 55 Rating, Add</i>	550.54	
			<i>For Class 56 Rating, Add</i>	730.51	
40 05 19 00-1101	EA		6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,006.00	346.85
			<i>For Class 52 Rating, Deduct</i>	-272.85	
			<i>For Class 54 Rating, Add</i>	378.38	
			<i>For Class 55 Rating, Add</i>	565.76	
			<i>For Class 56 Rating, Add</i>	750.66	
40 05 19 00-1102	EA		6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,078.77	350.22
			<i>For Class 52 Rating, Deduct</i>	-280.30	
			<i>For Class 54 Rating, Add</i>	388.59	
			<i>For Class 55 Rating, Add</i>	580.97	
			<i>For Class 56 Rating, Add</i>	770.80	
40 05 19 00-1103	EA		6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,151.55	353.59
			<i>For Class 52 Rating, Deduct</i>	-287.74	
			<i>For Class 54 Rating, Add</i>	398.80	
			<i>For Class 55 Rating, Add</i>	596.18	
			<i>For Class 56 Rating, Add</i>	790.95	
40 05 19 00-1104	EA		6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,224.32	356.95
			<i>For Class 52 Rating, Deduct</i>	-295.18	
			<i>For Class 54 Rating, Add</i>	409.01	
			<i>For Class 55 Rating, Add</i>	611.40	
			<i>For Class 56 Rating, Add</i>	811.10	
40 05 19 00-1105	EA		6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,297.09	360.32
			<i>For Class 52 Rating, Deduct</i>	-302.63	
			<i>For Class 54 Rating, Add</i>	419.22	
			<i>For Class 55 Rating, Add</i>	626.61	
			<i>For Class 56 Rating, Add</i>	831.24	
40 05 19 00-1106	EA		6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,369.86	363.69
			<i>For Class 52 Rating, Deduct</i>	-310.07	
			<i>For Class 54 Rating, Add</i>	429.44	
			<i>For Class 55 Rating, Add</i>	641.82	
			<i>For Class 56 Rating, Add</i>	851.39	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1107 EA 6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,442.62	367.05
<i>For Class 52 Rating, Deduct</i>	-317.51	
<i>For Class 54 Rating, Add</i>	439.65	
<i>For Class 55 Rating, Add</i>	657.03	
<i>For Class 56 Rating, Add</i>	871.53	
40 05 19 00-1108 EA 6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,515.40	370.42
<i>For Class 52 Rating, Deduct</i>	-324.96	
<i>For Class 54 Rating, Add</i>	449.86	
<i>For Class 55 Rating, Add</i>	672.25	
<i>For Class 56 Rating, Add</i>	891.68	
<b>40 05 19 00-1109 8" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1110 EA 8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,025.56	309.80
<i>For Class 52 Rating, Deduct</i>	-61.18	
<i>For Class 54 Rating, Add</i>	89.06	
<i>For Class 55 Rating, Add</i>	135.29	
<i>For Class 56 Rating, Add</i>	180.96	
40 05 19 00-1111 EA 8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,123.70	313.18
<i>For Class 52 Rating, Deduct</i>	-71.41	
<i>For Class 54 Rating, Add</i>	103.07	
<i>For Class 55 Rating, Add</i>	156.16	
<i>For Class 56 Rating, Add</i>	208.59	
40 05 19 00-1112 EA 8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,221.85	316.55
<i>For Class 52 Rating, Deduct</i>	-81.65	
<i>For Class 54 Rating, Add</i>	117.09	
<i>For Class 55 Rating, Add</i>	177.03	
<i>For Class 56 Rating, Add</i>	236.23	
40 05 19 00-1113 EA 8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,319.99	319.91
<i>For Class 52 Rating, Deduct</i>	-91.88	
<i>For Class 54 Rating, Add</i>	131.11	
<i>For Class 55 Rating, Add</i>	197.90	
<i>For Class 56 Rating, Add</i>	263.86	
40 05 19 00-1114 EA 8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,418.15	323.28
<i>For Class 52 Rating, Deduct</i>	-102.12	
<i>For Class 54 Rating, Add</i>	145.13	
<i>For Class 55 Rating, Add</i>	218.77	
<i>For Class 56 Rating, Add</i>	291.49	
40 05 19 00-1115 EA 8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,516.29	326.65
<i>For Class 52 Rating, Deduct</i>	-112.35	
<i>For Class 54 Rating, Add</i>	159.14	
<i>For Class 55 Rating, Add</i>	239.64	
<i>For Class 56 Rating, Add</i>	319.12	
40 05 19 00-1116 EA 8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,614.44	330.02
<i>For Class 52 Rating, Deduct</i>	-122.59	
<i>For Class 54 Rating, Add</i>	173.16	
<i>For Class 55 Rating, Add</i>	260.52	
<i>For Class 56 Rating, Add</i>	346.75	
40 05 19 00-1117 EA 8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,712.58	333.38
<i>For Class 52 Rating, Deduct</i>	-132.82	
<i>For Class 54 Rating, Add</i>	187.18	
<i>For Class 55 Rating, Add</i>	281.39	
<i>For Class 56 Rating, Add</i>	374.39	
40 05 19 00-1118 EA 8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,810.73	336.75
<i>For Class 52 Rating, Deduct</i>	-143.06	
<i>For Class 54 Rating, Add</i>	201.20	
<i>For Class 55 Rating, Add</i>	302.26	
<i>For Class 56 Rating, Add</i>	402.02	
40 05 19 00-1119 EA 8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,908.88	340.12
<i>For Class 52 Rating, Deduct</i>	-153.29	
<i>For Class 54 Rating, Add</i>	215.22	
<i>For Class 55 Rating, Add</i>	323.13	
<i>For Class 56 Rating, Add</i>	429.65	
40 05 19 00-1120 EA 8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,007.02	343.48
<i>For Class 52 Rating, Deduct</i>	-163.52	
<i>For Class 54 Rating, Add</i>	229.23	
<i>For Class 55 Rating, Add</i>	344.00	
<i>For Class 56 Rating, Add</i>	457.28	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1121	EA		8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,105.17	346.85
			<i>For Class 52 Rating, Deduct</i>	-173.76	
			<i>For Class 54 Rating, Add</i>	243.25	
			<i>For Class 55 Rating, Add</i>	364.87	
			<i>For Class 56 Rating, Add</i>	484.91	
40 05 19 00-1122	EA		8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,203.31	350.22
			<i>For Class 52 Rating, Deduct</i>	-183.99	
			<i>For Class 54 Rating, Add</i>	257.27	
			<i>For Class 55 Rating, Add</i>	385.74	
			<i>For Class 56 Rating, Add</i>	512.54	
40 05 19 00-1123	EA		8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,301.46	353.59
			<i>For Class 52 Rating, Deduct</i>	-194.23	
			<i>For Class 54 Rating, Add</i>	271.29	
			<i>For Class 55 Rating, Add</i>	406.61	
			<i>For Class 56 Rating, Add</i>	540.17	
40 05 19 00-1124	EA		8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,399.61	356.95
			<i>For Class 52 Rating, Deduct</i>	-204.46	
			<i>For Class 54 Rating, Add</i>	285.31	
			<i>For Class 55 Rating, Add</i>	427.49	
			<i>For Class 56 Rating, Add</i>	567.81	
40 05 19 00-1125	EA		8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,497.75	360.32
			<i>For Class 52 Rating, Deduct</i>	-214.70	
			<i>For Class 54 Rating, Add</i>	299.32	
			<i>For Class 55 Rating, Add</i>	448.36	
			<i>For Class 56 Rating, Add</i>	595.44	
40 05 19 00-1126	EA		8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,595.90	363.69
			<i>For Class 52 Rating, Deduct</i>	-224.93	
			<i>For Class 54 Rating, Add</i>	313.34	
			<i>For Class 55 Rating, Add</i>	469.23	
			<i>For Class 56 Rating, Add</i>	623.07	
40 05 19 00-1127	EA		8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,694.04	367.05
			<i>For Class 52 Rating, Deduct</i>	-235.17	
			<i>For Class 54 Rating, Add</i>	327.36	
			<i>For Class 55 Rating, Add</i>	490.10	
			<i>For Class 56 Rating, Add</i>	650.70	
40 05 19 00-1128	EA		8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,792.20	370.42
			<i>For Class 52 Rating, Deduct</i>	-245.40	
			<i>For Class 54 Rating, Add</i>	341.38	
			<i>For Class 55 Rating, Add</i>	510.97	
			<i>For Class 56 Rating, Add</i>	678.34	
40 05 19 00-1129	EA		8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,890.34	373.79
			<i>For Class 52 Rating, Deduct</i>	-255.64	
			<i>For Class 54 Rating, Add</i>	355.39	
			<i>For Class 55 Rating, Add</i>	531.84	
			<i>For Class 56 Rating, Add</i>	705.97	
40 05 19 00-1130	EA		8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,988.48	377.16
			<i>For Class 52 Rating, Deduct</i>	-265.87	
			<i>For Class 54 Rating, Add</i>	369.41	
			<i>For Class 55 Rating, Add</i>	552.71	
			<i>For Class 56 Rating, Add</i>	733.60	
40 05 19 00-1131	EA		8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,086.63	380.52
			<i>For Class 52 Rating, Deduct</i>	-276.11	
			<i>For Class 54 Rating, Add</i>	383.43	
			<i>For Class 55 Rating, Add</i>	573.59	
			<i>For Class 56 Rating, Add</i>	761.23	
40 05 19 00-1132	EA		8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,184.78	383.89
			<i>For Class 52 Rating, Deduct</i>	-286.34	
			<i>For Class 54 Rating, Add</i>	397.45	
			<i>For Class 55 Rating, Add</i>	594.46	
			<i>For Class 56 Rating, Add</i>	788.86	
40 05 19 00-1133	EA		8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,282.93	387.27
			<i>For Class 52 Rating, Deduct</i>	-296.58	
			<i>For Class 54 Rating, Add</i>	411.47	
			<i>For Class 55 Rating, Add</i>	615.33	
			<i>For Class 56 Rating, Add</i>	816.49	
40 05 19 00-1134	EA		8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,381.07	390.63
			<i>For Class 52 Rating, Deduct</i>	-306.81	
			<i>For Class 54 Rating, Add</i>	425.48	
			<i>For Class 55 Rating, Add</i>	636.20	
			<i>For Class 56 Rating, Add</i>	844.12	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1135 EA 8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	3,479.21	394.00
For Class 52 Rating, Deduct	-317.05	
For Class 54 Rating, Add	439.50	
For Class 55 Rating, Add	657.07	
For Class 56 Rating, Add	871.75	
40 05 19 00-1136 EA 8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	3,577.36	397.36
For Class 52 Rating, Deduct	-327.28	
For Class 54 Rating, Add	453.52	
For Class 55 Rating, Add	677.94	
For Class 56 Rating, Add	899.39	
40 05 19 00-1137 EA 8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	3,675.51	400.74
For Class 52 Rating, Deduct	-337.52	
For Class 54 Rating, Add	467.54	
For Class 55 Rating, Add	698.81	
For Class 56 Rating, Add	927.02	
40 05 19 00-1138 EA 8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	3,773.66	404.09
For Class 52 Rating, Deduct	-347.75	
For Class 54 Rating, Add	481.56	
For Class 55 Rating, Add	719.68	
For Class 56 Rating, Add	954.65	
40 05 19 00-1139 EA 8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	3,871.80	407.47
For Class 52 Rating, Deduct	-357.99	
For Class 54 Rating, Add	495.57	
For Class 55 Rating, Add	740.55	
For Class 56 Rating, Add	982.28	
40 05 19 00-1140 EA 8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	3,969.95	410.83
For Class 52 Rating, Deduct	-368.22	
For Class 54 Rating, Add	509.59	
For Class 55 Rating, Add	761.43	
For Class 56 Rating, Add	1,009.92	
40 05 19 00-1141 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,068.09	414.21
For Class 52 Rating, Deduct	-378.46	
For Class 54 Rating, Add	523.61	
For Class 55 Rating, Add	782.30	
For Class 56 Rating, Add	1,037.55	
40 05 19 00-1142 EA 8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,166.24	417.56
For Class 52 Rating, Deduct	-388.69	
For Class 54 Rating, Add	537.63	
For Class 55 Rating, Add	803.17	
For Class 56 Rating, Add	1,065.18	
40 05 19 00-1143 EA 8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,264.39	420.94
For Class 52 Rating, Deduct	-398.93	
For Class 54 Rating, Add	551.64	
For Class 55 Rating, Add	824.04	
For Class 56 Rating, Add	1,092.81	
40 05 19 00-1144 EA 8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,362.53	424.30
For Class 52 Rating, Deduct	-409.16	
For Class 54 Rating, Add	565.66	
For Class 55 Rating, Add	844.91	
For Class 56 Rating, Add	1,120.44	
40 05 19 00-1145 EA 8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,460.68	427.67
For Class 52 Rating, Deduct	-419.40	
For Class 54 Rating, Add	579.68	
For Class 55 Rating, Add	865.78	
For Class 56 Rating, Add	1,148.07	
40 05 19 00-1146 EA 8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,558.83	431.03
For Class 52 Rating, Deduct	-429.63	
For Class 54 Rating, Add	593.70	
For Class 55 Rating, Add	886.65	
For Class 56 Rating, Add	1,175.70	
40 05 19 00-1147 EA 8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,656.97	434.41
For Class 52 Rating, Deduct	-439.87	
For Class 54 Rating, Add	607.72	
For Class 55 Rating, Add	907.52	
For Class 56 Rating, Add	1,203.33	
40 05 19 00-1148 EA 8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	4,755.12	437.78
For Class 52 Rating, Deduct	-450.10	
For Class 54 Rating, Add	621.73	
For Class 55 Rating, Add	928.40	
For Class 56 Rating, Add	1,230.97	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1149		<b>10" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1150	EA	10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,288.31	377.16
		For Class 52 Rating, Deduct	-78.85	
		For Class 54 Rating, Add	114.39	
		For Class 55 Rating, Add	173.57	
		For Class 56 Rating, Add	232.05	
40 05 19 00-1151	EA	10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,416.06	380.52
		For Class 52 Rating, Deduct	-92.35	
		For Class 54 Rating, Add	132.85	
		For Class 55 Rating, Add	201.05	
		For Class 56 Rating, Add	268.41	
40 05 19 00-1152	EA	10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,543.82	383.89
		For Class 52 Rating, Deduct	-105.84	
		For Class 54 Rating, Add	151.30	
		For Class 55 Rating, Add	228.52	
		For Class 56 Rating, Add	304.78	
40 05 19 00-1153	EA	10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,671.57	387.27
		For Class 52 Rating, Deduct	-119.33	
		For Class 54 Rating, Add	169.76	
		For Class 55 Rating, Add	255.99	
		For Class 56 Rating, Add	341.14	
40 05 19 00-1154	EA	10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,799.32	390.63
		For Class 52 Rating, Deduct	-132.82	
		For Class 54 Rating, Add	188.22	
		For Class 55 Rating, Add	283.47	
		For Class 56 Rating, Add	377.51	
40 05 19 00-1155	EA	10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,927.07	394.00
		For Class 52 Rating, Deduct	-146.31	
		For Class 54 Rating, Add	206.68	
		For Class 55 Rating, Add	310.94	
		For Class 56 Rating, Add	413.87	
40 05 19 00-1156	EA	10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,054.82	397.36
		For Class 52 Rating, Deduct	-159.80	
		For Class 54 Rating, Add	225.14	
		For Class 55 Rating, Add	338.41	
		For Class 56 Rating, Add	450.24	
40 05 19 00-1157	EA	10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,182.58	400.74
		For Class 52 Rating, Deduct	-173.30	
		For Class 54 Rating, Add	243.60	
		For Class 55 Rating, Add	365.89	
		For Class 56 Rating, Add	486.60	
40 05 19 00-1158	EA	10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,310.33	404.09
		For Class 52 Rating, Deduct	-186.79	
		For Class 54 Rating, Add	262.06	
		For Class 55 Rating, Add	393.36	
		For Class 56 Rating, Add	522.97	
40 05 19 00-1159	EA	10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,438.07	407.47
		For Class 52 Rating, Deduct	-200.28	
		For Class 54 Rating, Add	280.51	
		For Class 55 Rating, Add	420.83	
		For Class 56 Rating, Add	559.33	
40 05 19 00-1160	EA	10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,565.82	410.83
		For Class 52 Rating, Deduct	-213.77	
		For Class 54 Rating, Add	298.97	
		For Class 55 Rating, Add	448.31	
		For Class 56 Rating, Add	595.70	
40 05 19 00-1161	EA	10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,693.57	414.21
		For Class 52 Rating, Deduct	-227.26	
		For Class 54 Rating, Add	317.43	
		For Class 55 Rating, Add	475.78	
		For Class 56 Rating, Add	632.06	
40 05 19 00-1162	EA	10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,821.33	417.56
		For Class 52 Rating, Deduct	-240.75	
		For Class 54 Rating, Add	335.89	
		For Class 55 Rating, Add	503.25	
		For Class 56 Rating, Add	668.43	
40 05 19 00-1163	EA	10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,949.08	420.94
		For Class 52 Rating, Deduct	-254.24	
		For Class 54 Rating, Add	354.35	
		For Class 55 Rating, Add	530.73	
		For Class 56 Rating, Add	704.79	



<b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>
<b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span>
Ductile Iron Process Pipe 40 05 19 <span style="float: right;"><b>40</b></span>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1164 EA 10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,076.83	424.30
<i>For Class 52 Rating, Deduct</i>	-267.73	
<i>For Class 54 Rating, Add</i>	372.81	
<i>For Class 55 Rating, Add</i>	558.20	
<i>For Class 56 Rating, Add</i>	741.16	
40 05 19 00-1165 EA 10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,204.58	427.67
<i>For Class 52 Rating, Deduct</i>	-281.23	
<i>For Class 54 Rating, Add</i>	391.27	
<i>For Class 55 Rating, Add</i>	585.67	
<i>For Class 56 Rating, Add</i>	777.52	
40 05 19 00-1166 EA 10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,332.34	431.03
<i>For Class 52 Rating, Deduct</i>	-294.72	
<i>For Class 54 Rating, Add</i>	409.72	
<i>For Class 55 Rating, Add</i>	613.15	
<i>For Class 56 Rating, Add</i>	813.89	
40 05 19 00-1167 EA 10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,460.09	434.41
<i>For Class 52 Rating, Deduct</i>	-308.21	
<i>For Class 54 Rating, Add</i>	428.18	
<i>For Class 55 Rating, Add</i>	640.62	
<i>For Class 56 Rating, Add</i>	850.26	
40 05 19 00-1168 EA 10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,587.84	437.78
<i>For Class 52 Rating, Deduct</i>	-321.70	
<i>For Class 54 Rating, Add</i>	446.64	
<i>For Class 55 Rating, Add</i>	668.09	
<i>For Class 56 Rating, Add</i>	886.62	
40 05 19 00-1169 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,715.59	441.14
<i>For Class 52 Rating, Deduct</i>	-335.19	
<i>For Class 54 Rating, Add</i>	465.10	
<i>For Class 55 Rating, Add</i>	695.57	
<i>For Class 56 Rating, Add</i>	922.99	
40 05 19 00-1170 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,843.34	444.50
<i>For Class 52 Rating, Deduct</i>	-348.68	
<i>For Class 54 Rating, Add</i>	483.56	
<i>For Class 55 Rating, Add</i>	723.04	
<i>For Class 56 Rating, Add</i>	959.35	
40 05 19 00-1171 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,971.09	447.88
<i>For Class 52 Rating, Deduct</i>	-362.17	
<i>For Class 54 Rating, Add</i>	502.02	
<i>For Class 55 Rating, Add</i>	750.51	
<i>For Class 56 Rating, Add</i>	995.71	
40 05 19 00-1172 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,098.84	451.23
<i>For Class 52 Rating, Deduct</i>	-375.67	
<i>For Class 54 Rating, Add</i>	520.48	
<i>For Class 55 Rating, Add</i>	777.99	
<i>For Class 56 Rating, Add</i>	1,032.08	
40 05 19 00-1173 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,226.59	454.61
<i>For Class 52 Rating, Deduct</i>	-389.16	
<i>For Class 54 Rating, Add</i>	538.93	
<i>For Class 55 Rating, Add</i>	805.46	
<i>For Class 56 Rating, Add</i>	1,068.44	
40 05 19 00-1174 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,354.34	457.98
<i>For Class 52 Rating, Deduct</i>	-402.65	
<i>For Class 54 Rating, Add</i>	557.39	
<i>For Class 55 Rating, Add</i>	832.93	
<i>For Class 56 Rating, Add</i>	1,104.81	
40 05 19 00-1175 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,482.09	461.35
<i>For Class 52 Rating, Deduct</i>	-416.14	
<i>For Class 54 Rating, Add</i>	575.85	
<i>For Class 55 Rating, Add</i>	860.41	
<i>For Class 56 Rating, Add</i>	1,141.18	
40 05 19 00-1176 EA 10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,609.85	464.71
<i>For Class 52 Rating, Deduct</i>	-429.63	
<i>For Class 54 Rating, Add</i>	594.31	
<i>For Class 55 Rating, Add</i>	887.88	
<i>For Class 56 Rating, Add</i>	1,177.54	
40 05 19 00-1177 EA 10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,737.60	468.08
<i>For Class 52 Rating, Deduct</i>	-443.12	
<i>For Class 54 Rating, Add</i>	612.77	
<i>For Class 55 Rating, Add</i>	915.35	
<i>For Class 56 Rating, Add</i>	1,213.91	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1178	EA		10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,865.35	471.45
			<i>For Class 52 Rating, Deduct</i> .....	-456.61	
			<i>For Class 54 Rating, Add</i> .....	631.23	
			<i>For Class 55 Rating, Add</i> .....	942.83	
			<i>For Class 56 Rating, Add</i> .....	1,250.27	
40 05 19 00-1179	EA		10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,993.10	474.82
			<i>For Class 52 Rating, Deduct</i> .....	-470.11	
			<i>For Class 54 Rating, Add</i> .....	649.69	
			<i>For Class 55 Rating, Add</i> .....	970.30	
			<i>For Class 56 Rating, Add</i> .....	1,286.64	
40 05 19 00-1180	EA		10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,120.86	478.18
			<i>For Class 52 Rating, Deduct</i> .....	-483.60	
			<i>For Class 54 Rating, Add</i> .....	668.15	
			<i>For Class 55 Rating, Add</i> .....	997.77	
			<i>For Class 56 Rating, Add</i> .....	1,323.00	
40 05 19 00-1181	EA		10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,248.61	481.55
			<i>For Class 52 Rating, Deduct</i> .....	-497.09	
			<i>For Class 54 Rating, Add</i> .....	686.60	
			<i>For Class 55 Rating, Add</i> .....	1,025.25	
			<i>For Class 56 Rating, Add</i> .....	1,359.37	
40 05 19 00-1182	EA		10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,376.35	484.92
			<i>For Class 52 Rating, Deduct</i> .....	-510.58	
			<i>For Class 54 Rating, Add</i> .....	705.06	
			<i>For Class 55 Rating, Add</i> .....	1,052.72	
			<i>For Class 56 Rating, Add</i> .....	1,395.73	
40 05 19 00-1183	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,504.10	488.28
			<i>For Class 52 Rating, Deduct</i> .....	-524.07	
			<i>For Class 54 Rating, Add</i> .....	723.52	
			<i>For Class 55 Rating, Add</i> .....	1,080.19	
			<i>For Class 56 Rating, Add</i> .....	1,432.10	
40 05 19 00-1184	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,631.85	491.65
			<i>For Class 52 Rating, Deduct</i> .....	-537.56	
			<i>For Class 54 Rating, Add</i> .....	741.98	
			<i>For Class 55 Rating, Add</i> .....	1,107.66	
			<i>For Class 56 Rating, Add</i> .....	1,468.46	
40 05 19 00-1185	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,759.61	495.02
			<i>For Class 52 Rating, Deduct</i> .....	-551.05	
			<i>For Class 54 Rating, Add</i> .....	760.44	
			<i>For Class 55 Rating, Add</i> .....	1,135.14	
			<i>For Class 56 Rating, Add</i> .....	1,504.83	
40 05 19 00-1186	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,887.36	498.39
			<i>For Class 52 Rating, Deduct</i> .....	-564.55	
			<i>For Class 54 Rating, Add</i> .....	778.90	
			<i>For Class 55 Rating, Add</i> .....	1,162.61	
			<i>For Class 56 Rating, Add</i> .....	1,541.19	
40 05 19 00-1187	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,015.11	501.75
			<i>For Class 52 Rating, Deduct</i> .....	-578.04	
			<i>For Class 54 Rating, Add</i> .....	797.35	
			<i>For Class 55 Rating, Add</i> .....	1,190.08	
			<i>For Class 56 Rating, Add</i> .....	1,577.56	
40 05 19 00-1188	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,142.86	505.12
			<i>For Class 52 Rating, Deduct</i> .....	-591.53	
			<i>For Class 54 Rating, Add</i> .....	815.81	
			<i>For Class 55 Rating, Add</i> .....	1,217.56	
			<i>For Class 56 Rating, Add</i> .....	1,613.92	
40 05 19 00-1189			<b>12" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1190	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,670.13	471.45
			<i>For Class 52 Rating, Deduct</i> .....	-105.14	
			<i>For Class 54 Rating, Add</i> .....	151.94	
			<i>For Class 55 Rating, Add</i> .....	230.29	
			<i>For Class 56 Rating, Add</i> .....	307.68	
40 05 19 00-1191	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	1,829.60	474.82
			<i>For Class 52 Rating, Deduct</i> .....	-122.12	
			<i>For Class 54 Rating, Add</i> .....	175.16	
			<i>For Class 55 Rating, Add</i> .....	264.84	
			<i>For Class 56 Rating, Add</i> .....	353.40	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1192 EA 12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	1,989.07	478.18
<i>For Class 52 Rating, Deduct</i>	-139.10	
<i>For Class 54 Rating, Add</i>	198.38	
<i>For Class 55 Rating, Add</i>	299.38	
<i>For Class 56 Rating, Add</i>	399.12	
40 05 19 00-1193 EA 12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,148.54	481.55
<i>For Class 52 Rating, Deduct</i>	-156.08	
<i>For Class 54 Rating, Add</i>	221.59	
<i>For Class 55 Rating, Add</i>	333.93	
<i>For Class 56 Rating, Add</i>	444.85	
40 05 19 00-1194 EA 12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,308.01	484.92
<i>For Class 52 Rating, Deduct</i>	-173.06	
<i>For Class 54 Rating, Add</i>	244.81	
<i>For Class 55 Rating, Add</i>	368.48	
<i>For Class 56 Rating, Add</i>	490.57	
40 05 19 00-1195 EA 12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,467.48	488.28
<i>For Class 52 Rating, Deduct</i>	-190.04	
<i>For Class 54 Rating, Add</i>	268.03	
<i>For Class 55 Rating, Add</i>	403.02	
<i>For Class 56 Rating, Add</i>	536.29	
40 05 19 00-1196 EA 12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,626.95	491.65
<i>For Class 52 Rating, Deduct</i>	-207.02	
<i>For Class 54 Rating, Add</i>	291.24	
<i>For Class 55 Rating, Add</i>	437.57	
<i>For Class 56 Rating, Add</i>	582.02	
40 05 19 00-1197 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,786.43	495.02
<i>For Class 52 Rating, Deduct</i>	-224.00	
<i>For Class 54 Rating, Add</i>	314.46	
<i>For Class 55 Rating, Add</i>	472.12	
<i>For Class 56 Rating, Add</i>	627.74	
40 05 19 00-1198 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,945.90	498.39
<i>For Class 52 Rating, Deduct</i>	-240.98	
<i>For Class 54 Rating, Add</i>	337.68	
<i>For Class 55 Rating, Add</i>	506.66	
<i>For Class 56 Rating, Add</i>	673.46	
40 05 19 00-1199 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,105.37	501.75
<i>For Class 52 Rating, Deduct</i>	-257.97	
<i>For Class 54 Rating, Add</i>	360.89	
<i>For Class 55 Rating, Add</i>	541.21	
<i>For Class 56 Rating, Add</i>	719.18	
40 05 19 00-1200 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,264.83	505.12
<i>For Class 52 Rating, Deduct</i>	-274.95	
<i>For Class 54 Rating, Add</i>	384.11	
<i>For Class 55 Rating, Add</i>	575.76	
<i>For Class 56 Rating, Add</i>	764.90	
40 05 19 00-1201 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,424.31	508.50
<i>For Class 52 Rating, Deduct</i>	-291.93	
<i>For Class 54 Rating, Add</i>	407.33	
<i>For Class 55 Rating, Add</i>	610.30	
<i>For Class 56 Rating, Add</i>	810.63	
40 05 19 00-1202 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,583.79	511.85
<i>For Class 52 Rating, Deduct</i>	-308.91	
<i>For Class 54 Rating, Add</i>	430.54	
<i>For Class 55 Rating, Add</i>	644.85	
<i>For Class 56 Rating, Add</i>	856.35	
40 05 19 00-1203 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,743.26	515.23
<i>For Class 52 Rating, Deduct</i>	-325.89	
<i>For Class 54 Rating, Add</i>	453.76	
<i>For Class 55 Rating, Add</i>	679.40	
<i>For Class 56 Rating, Add</i>	902.07	
40 05 19 00-1204 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,902.73	518.59
<i>For Class 52 Rating, Deduct</i>	-342.87	
<i>For Class 54 Rating, Add</i>	476.98	
<i>For Class 55 Rating, Add</i>	713.94	
<i>For Class 56 Rating, Add</i>	947.80	
40 05 19 00-1205 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,062.20	521.97
<i>For Class 52 Rating, Deduct</i>	-359.85	
<i>For Class 54 Rating, Add</i>	500.19	
<i>For Class 55 Rating, Add</i>	748.49	
<i>For Class 56 Rating, Add</i>	993.52	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1206	EA		12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,221.68	525.32
			<i>For Class 52 Rating, Deduct</i> .....	-376.83	
			<i>For Class 54 Rating, Add</i> .....	523.41	
			<i>For Class 55 Rating, Add</i> .....	783.04	
			<i>For Class 56 Rating, Add</i> .....	1,039.24	
40 05 19 00-1207	EA		12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,381.15	528.70
			<i>For Class 52 Rating, Deduct</i> .....	-393.81	
			<i>For Class 54 Rating, Add</i> .....	546.63	
			<i>For Class 55 Rating, Add</i> .....	817.59	
			<i>For Class 56 Rating, Add</i> .....	1,084.96	
40 05 19 00-1208	EA		12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,540.61	532.06
			<i>For Class 52 Rating, Deduct</i> .....	-410.79	
			<i>For Class 54 Rating, Add</i> .....	569.84	
			<i>For Class 55 Rating, Add</i> .....	852.13	
			<i>For Class 56 Rating, Add</i> .....	1,130.68	
40 05 19 00-1209	EA		12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,700.08	535.43
			<i>For Class 52 Rating, Deduct</i> .....	-427.77	
			<i>For Class 54 Rating, Add</i> .....	593.06	
			<i>For Class 55 Rating, Add</i> .....	886.68	
			<i>For Class 56 Rating, Add</i> .....	1,176.41	
40 05 19 00-1210	EA		12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,859.55	538.79
			<i>For Class 52 Rating, Deduct</i> .....	-444.75	
			<i>For Class 54 Rating, Add</i> .....	616.27	
			<i>For Class 55 Rating, Add</i> .....	921.22	
			<i>For Class 56 Rating, Add</i> .....	1,222.13	
40 05 19 00-1211	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,019.03	542.17
			<i>For Class 52 Rating, Deduct</i> .....	-461.73	
			<i>For Class 54 Rating, Add</i> .....	639.49	
			<i>For Class 55 Rating, Add</i> .....	955.77	
			<i>For Class 56 Rating, Add</i> .....	1,267.85	
40 05 19 00-1212	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,178.50	545.53
			<i>For Class 52 Rating, Deduct</i> .....	-478.71	
			<i>For Class 54 Rating, Add</i> .....	662.71	
			<i>For Class 55 Rating, Add</i> .....	990.32	
			<i>For Class 56 Rating, Add</i> .....	1,313.58	
40 05 19 00-1213	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,337.97	548.90
			<i>For Class 52 Rating, Deduct</i> .....	-495.69	
			<i>For Class 54 Rating, Add</i> .....	685.93	
			<i>For Class 55 Rating, Add</i> .....	1,024.86	
			<i>For Class 56 Rating, Add</i> .....	1,359.30	
40 05 19 00-1214	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,497.44	552.26
			<i>For Class 52 Rating, Deduct</i> .....	-512.67	
			<i>For Class 54 Rating, Add</i> .....	709.14	
			<i>For Class 55 Rating, Add</i> .....	1,059.41	
			<i>For Class 56 Rating, Add</i> .....	1,405.02	
40 05 19 00-1215	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,656.91	555.64
			<i>For Class 52 Rating, Deduct</i> .....	-529.65	
			<i>For Class 54 Rating, Add</i> .....	732.36	
			<i>For Class 55 Rating, Add</i> .....	1,093.96	
			<i>For Class 56 Rating, Add</i> .....	1,450.74	
40 05 19 00-1216	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,816.38	559.01
			<i>For Class 52 Rating, Deduct</i> .....	-546.63	
			<i>For Class 54 Rating, Add</i> .....	755.57	
			<i>For Class 55 Rating, Add</i> .....	1,128.50	
			<i>For Class 56 Rating, Add</i> .....	1,496.46	
40 05 19 00-1217	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,975.85	562.37
			<i>For Class 52 Rating, Deduct</i> .....	-563.61	
			<i>For Class 54 Rating, Add</i> .....	778.79	
			<i>For Class 55 Rating, Add</i> .....	1,163.05	
			<i>For Class 56 Rating, Add</i> .....	1,542.19	
40 05 19 00-1218	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,135.32	565.73
			<i>For Class 52 Rating, Deduct</i> .....	-580.60	
			<i>For Class 54 Rating, Add</i> .....	802.01	
			<i>For Class 55 Rating, Add</i> .....	1,197.60	
			<i>For Class 56 Rating, Add</i> .....	1,587.91	
40 05 19 00-1219	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,294.79	569.11
			<i>For Class 52 Rating, Deduct</i> .....	-597.58	
			<i>For Class 54 Rating, Add</i> .....	825.22	
			<i>For Class 55 Rating, Add</i> .....	1,232.14	
			<i>For Class 56 Rating, Add</i> .....	1,633.63	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1220 EA 12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,454.27	572.46
For Class 52 Rating, Deduct	-614.56	
For Class 54 Rating, Add	848.44	
For Class 55 Rating, Add	1,266.69	
For Class 56 Rating, Add	1,679.36	
40 05 19 00-1221 EA 12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,613.74	575.84
For Class 52 Rating, Deduct	-631.54	
For Class 54 Rating, Add	871.66	
For Class 55 Rating, Add	1,301.24	
For Class 56 Rating, Add	1,725.08	
40 05 19 00-1222 EA 12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,773.21	579.21
For Class 52 Rating, Deduct	-648.52	
For Class 54 Rating, Add	894.87	
For Class 55 Rating, Add	1,335.79	
For Class 56 Rating, Add	1,770.80	
40 05 19 00-1223 EA 12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,932.67	582.58
For Class 52 Rating, Deduct	-665.50	
For Class 54 Rating, Add	918.09	
For Class 55 Rating, Add	1,370.33	
For Class 56 Rating, Add	1,816.52	
40 05 19 00-1224 EA 12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,092.14	585.94
For Class 52 Rating, Deduct	-682.48	
For Class 54 Rating, Add	941.31	
For Class 55 Rating, Add	1,404.88	
For Class 56 Rating, Add	1,862.24	
40 05 19 00-1225 EA 12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,251.62	589.31
For Class 52 Rating, Deduct	-699.46	
For Class 54 Rating, Add	964.52	
For Class 55 Rating, Add	1,439.42	
For Class 56 Rating, Add	1,907.97	
40 05 19 00-1226 EA 12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,411.09	592.68
For Class 52 Rating, Deduct	-716.44	
For Class 54 Rating, Add	987.74	
For Class 55 Rating, Add	1,473.97	
For Class 56 Rating, Add	1,953.69	
40 05 19 00-1227 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,570.56	596.04
For Class 52 Rating, Deduct	-733.42	
For Class 54 Rating, Add	1,010.96	
For Class 55 Rating, Add	1,508.52	
For Class 56 Rating, Add	1,999.41	
40 05 19 00-1228 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,730.03	599.41
For Class 52 Rating, Deduct	-750.40	
For Class 54 Rating, Add	1,034.17	
For Class 55 Rating, Add	1,543.06	
For Class 56 Rating, Add	2,045.14	
<b>40 05 19 00-1229 14" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1230 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,221.12	565.73
For Class 52 Rating, Deduct	-150.03	
For Class 54 Rating, Add	214.88	
For Class 55 Rating, Add	324.73	
For Class 56 Rating, Add	433.22	
40 05 19 00-1231 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,414.43	569.11
For Class 52 Rating, Deduct	-170.74	
For Class 54 Rating, Add	243.17	
For Class 55 Rating, Add	366.82	
For Class 56 Rating, Add	488.93	
40 05 19 00-1232 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,607.74	572.46
For Class 52 Rating, Deduct	-191.44	
For Class 54 Rating, Add	271.46	
For Class 55 Rating, Add	408.92	
For Class 56 Rating, Add	544.63	
40 05 19 00-1233 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,801.04	575.84
For Class 52 Rating, Deduct	-212.14	
For Class 54 Rating, Add	299.75	
For Class 55 Rating, Add	451.01	
For Class 56 Rating, Add	600.33	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1234	EA		14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,994.34	579.21
			<i>For Class 52 Rating, Deduct</i>	-232.84	
			<i>For Class 54 Rating, Add</i>	328.04	
			<i>For Class 55 Rating, Add</i>	493.10	
			<i>For Class 56 Rating, Add</i>	656.03	
40 05 19 00-1235	EA		14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,187.65	582.58
			<i>For Class 52 Rating, Deduct</i>	-253.55	
			<i>For Class 54 Rating, Add</i>	356.34	
			<i>For Class 55 Rating, Add</i>	535.19	
			<i>For Class 56 Rating, Add</i>	711.74	
40 05 19 00-1236	EA		14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,380.95	585.94
			<i>For Class 52 Rating, Deduct</i>	-274.25	
			<i>For Class 54 Rating, Add</i>	384.63	
			<i>For Class 55 Rating, Add</i>	577.28	
			<i>For Class 56 Rating, Add</i>	767.44	
40 05 19 00-1237	EA		14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,574.26	589.31
			<i>For Class 52 Rating, Deduct</i>	-294.95	
			<i>For Class 54 Rating, Add</i>	412.92	
			<i>For Class 55 Rating, Add</i>	619.37	
			<i>For Class 56 Rating, Add</i>	823.15	
40 05 19 00-1238	EA		14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,767.57	592.68
			<i>For Class 52 Rating, Deduct</i>	-315.65	
			<i>For Class 54 Rating, Add</i>	441.21	
			<i>For Class 55 Rating, Add</i>	661.47	
			<i>For Class 56 Rating, Add</i>	878.85	
40 05 19 00-1239	EA		14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,960.87	596.04
			<i>For Class 52 Rating, Deduct</i>	-336.35	
			<i>For Class 54 Rating, Add</i>	469.50	
			<i>For Class 55 Rating, Add</i>	703.56	
			<i>For Class 56 Rating, Add</i>	934.55	
40 05 19 00-1240	EA		14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,154.17	599.41
			<i>For Class 52 Rating, Deduct</i>	-357.06	
			<i>For Class 54 Rating, Add</i>	497.79	
			<i>For Class 55 Rating, Add</i>	745.65	
			<i>For Class 56 Rating, Add</i>	990.26	
40 05 19 00-1241	EA		14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,347.48	602.78
			<i>For Class 52 Rating, Deduct</i>	-377.76	
			<i>For Class 54 Rating, Add</i>	526.09	
			<i>For Class 55 Rating, Add</i>	787.74	
			<i>For Class 56 Rating, Add</i>	1,045.96	
40 05 19 00-1242	EA		14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,540.79	606.15
			<i>For Class 52 Rating, Deduct</i>	-398.46	
			<i>For Class 54 Rating, Add</i>	554.38	
			<i>For Class 55 Rating, Add</i>	829.83	
			<i>For Class 56 Rating, Add</i>	1,101.66	
40 05 19 00-1243	EA		14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,734.09	609.51
			<i>For Class 52 Rating, Deduct</i>	-419.16	
			<i>For Class 54 Rating, Add</i>	582.67	
			<i>For Class 55 Rating, Add</i>	871.92	
			<i>For Class 56 Rating, Add</i>	1,157.37	
40 05 19 00-1244	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,927.39	612.88
			<i>For Class 52 Rating, Deduct</i>	-439.87	
			<i>For Class 54 Rating, Add</i>	610.96	
			<i>For Class 55 Rating, Add</i>	914.01	
			<i>For Class 56 Rating, Add</i>	1,213.07	
40 05 19 00-1245	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,120.70	616.25
			<i>For Class 52 Rating, Deduct</i>	-460.57	
			<i>For Class 54 Rating, Add</i>	639.25	
			<i>For Class 55 Rating, Add</i>	956.11	
			<i>For Class 56 Rating, Add</i>	1,268.78	
40 05 19 00-1246	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,314.01	619.61
			<i>For Class 52 Rating, Deduct</i>	-481.27	
			<i>For Class 54 Rating, Add</i>	667.54	
			<i>For Class 55 Rating, Add</i>	998.20	
			<i>For Class 56 Rating, Add</i>	1,324.48	
40 05 19 00-1247	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,507.31	622.98
			<i>For Class 52 Rating, Deduct</i>	-501.97	
			<i>For Class 54 Rating, Add</i>	695.84	
			<i>For Class 55 Rating, Add</i>	1,040.29	
			<i>For Class 56 Rating, Add</i>	1,380.18	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-1248 EA 14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,700.62	626.35
<i>For Class 52 Rating, Deduct</i>	-522.68	
<i>For Class 54 Rating, Add</i>	724.13	
<i>For Class 55 Rating, Add</i>	1,082.38	
<i>For Class 56 Rating, Add</i>	1,435.89	
40 05 19 00-1249 EA 14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,893.92	629.73
<i>For Class 52 Rating, Deduct</i>	-543.38	
<i>For Class 54 Rating, Add</i>	752.42	
<i>For Class 55 Rating, Add</i>	1,124.47	
<i>For Class 56 Rating, Add</i>	1,491.59	
40 05 19 00-1250 EA 14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,087.22	633.08
<i>For Class 52 Rating, Deduct</i>	-564.08	
<i>For Class 54 Rating, Add</i>	780.71	
<i>For Class 55 Rating, Add</i>	1,166.57	
<i>For Class 56 Rating, Add</i>	1,547.29	
40 05 19 00-1251 EA 14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,280.53	636.45
<i>For Class 52 Rating, Deduct</i>	-584.78	
<i>For Class 54 Rating, Add</i>	809.00	
<i>For Class 55 Rating, Add</i>	1,208.66	
<i>For Class 56 Rating, Add</i>	1,602.99	
40 05 19 00-1252 EA 14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,473.84	639.82
<i>For Class 52 Rating, Deduct</i>	-605.49	
<i>For Class 54 Rating, Add</i>	837.29	
<i>For Class 55 Rating, Add</i>	1,250.75	
<i>For Class 56 Rating, Add</i>	1,658.70	
40 05 19 00-1253 EA 14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,667.14	643.20
<i>For Class 52 Rating, Deduct</i>	-626.19	
<i>For Class 54 Rating, Add</i>	865.59	
<i>For Class 55 Rating, Add</i>	1,292.84	
<i>For Class 56 Rating, Add</i>	1,714.40	
40 05 19 00-1254 EA 14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,860.44	646.55
<i>For Class 52 Rating, Deduct</i>	-646.89	
<i>For Class 54 Rating, Add</i>	893.88	
<i>For Class 55 Rating, Add</i>	1,334.93	
<i>For Class 56 Rating, Add</i>	1,770.11	
40 05 19 00-1255 EA 14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,053.76	649.93
<i>For Class 52 Rating, Deduct</i>	-667.59	
<i>For Class 54 Rating, Add</i>	922.17	
<i>For Class 55 Rating, Add</i>	1,377.03	
<i>For Class 56 Rating, Add</i>	1,825.81	
40 05 19 00-1256 EA 14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,247.06	653.29
<i>For Class 52 Rating, Deduct</i>	-688.29	
<i>For Class 54 Rating, Add</i>	950.46	
<i>For Class 55 Rating, Add</i>	1,419.12	
<i>For Class 56 Rating, Add</i>	1,881.51	
40 05 19 00-1257 EA 14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,440.36	656.66
<i>For Class 52 Rating, Deduct</i>	-709.00	
<i>For Class 54 Rating, Add</i>	978.75	
<i>For Class 55 Rating, Add</i>	1,461.21	
<i>For Class 56 Rating, Add</i>	1,937.22	
40 05 19 00-1258 EA 14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,633.67	660.02
<i>For Class 52 Rating, Deduct</i>	-729.70	
<i>For Class 54 Rating, Add</i>	1,007.04	
<i>For Class 55 Rating, Add</i>	1,503.30	
<i>For Class 56 Rating, Add</i>	1,992.92	
40 05 19 00-1259 EA 14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,826.97	663.40
<i>For Class 52 Rating, Deduct</i>	-750.40	
<i>For Class 54 Rating, Add</i>	1,035.34	
<i>For Class 55 Rating, Add</i>	1,545.39	
<i>For Class 56 Rating, Add</i>	2,048.62	
40 05 19 00-1260 EA 14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,020.28	666.76
<i>For Class 52 Rating, Deduct</i>	-771.10	
<i>For Class 54 Rating, Add</i>	1,063.63	
<i>For Class 55 Rating, Add</i>	1,587.48	
<i>For Class 56 Rating, Add</i>	2,104.33	
40 05 19 00-1261 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,213.58	670.13
<i>For Class 52 Rating, Deduct</i>	-791.81	
<i>For Class 54 Rating, Add</i>	1,091.92	
<i>For Class 55 Rating, Add</i>	1,629.57	
<i>For Class 56 Rating, Add</i>	2,160.03	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1262	EA	14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,406.89	673.49
		<i>For Class 52 Rating, Deduct</i>	-812.51	
		<i>For Class 54 Rating, Add</i>	1,120.21	
		<i>For Class 55 Rating, Add</i>	1,671.67	
		<i>For Class 56 Rating, Add</i>	2,215.74	
40 05 19 00-1263	EA	14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,600.19	676.87
		<i>For Class 52 Rating, Deduct</i>	-833.21	
		<i>For Class 54 Rating, Add</i>	1,148.50	
		<i>For Class 55 Rating, Add</i>	1,713.76	
		<i>For Class 56 Rating, Add</i>	2,271.44	
40 05 19 00-1264	EA	14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,793.49	680.22
		<i>For Class 52 Rating, Deduct</i>	-853.91	
		<i>For Class 54 Rating, Add</i>	1,176.79	
		<i>For Class 55 Rating, Add</i>	1,755.85	
		<i>For Class 56 Rating, Add</i>	2,327.14	
40 05 19 00-1265	EA	14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,986.81	683.60
		<i>For Class 52 Rating, Deduct</i>	-874.62	
		<i>For Class 54 Rating, Add</i>	1,205.09	
		<i>For Class 55 Rating, Add</i>	1,797.94	
		<i>For Class 56 Rating, Add</i>	2,382.85	
40 05 19 00-1266	EA	14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,180.11	686.96
		<i>For Class 52 Rating, Deduct</i>	-895.32	
		<i>For Class 54 Rating, Add</i>	1,233.38	
		<i>For Class 55 Rating, Add</i>	1,840.03	
		<i>For Class 56 Rating, Add</i>	2,438.55	
40 05 19 00-1267	EA	14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,373.41	690.34
		<i>For Class 52 Rating, Deduct</i>	-916.02	
		<i>For Class 54 Rating, Add</i>	1,261.67	
		<i>For Class 55 Rating, Add</i>	1,882.12	
		<i>For Class 56 Rating, Add</i>	2,494.25	
40 05 19 00-1268		<b>16" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1269	EA	16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,593.10	646.55
		<i>For Class 52 Rating, Deduct</i>	-177.48	
		<i>For Class 54 Rating, Add</i>	253.78	
		<i>For Class 55 Rating, Add</i>	383.31	
		<i>For Class 56 Rating, Add</i>	511.24	
40 05 19 00-1270	EA	16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	2,818.13	649.93
		<i>For Class 52 Rating, Deduct</i>	-201.67	
		<i>For Class 54 Rating, Add</i>	286.83	
		<i>For Class 55 Rating, Add</i>	432.48	
		<i>For Class 56 Rating, Add</i>	576.30	
40 05 19 00-1271	EA	16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,043.16	653.29
		<i>For Class 52 Rating, Deduct</i>	-225.87	
		<i>For Class 54 Rating, Add</i>	319.88	
		<i>For Class 55 Rating, Add</i>	481.65	
		<i>For Class 56 Rating, Add</i>	641.36	
40 05 19 00-1272	EA	16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,268.18	656.66
		<i>For Class 52 Rating, Deduct</i>	-250.06	
		<i>For Class 54 Rating, Add</i>	352.93	
		<i>For Class 55 Rating, Add</i>	530.81	
		<i>For Class 56 Rating, Add</i>	706.42	
40 05 19 00-1273	EA	16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,493.20	660.02
		<i>For Class 52 Rating, Deduct</i>	-274.25	
		<i>For Class 54 Rating, Add</i>	385.97	
		<i>For Class 55 Rating, Add</i>	579.98	
		<i>For Class 56 Rating, Add</i>	771.48	
40 05 19 00-1274	EA	16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,718.22	663.40
		<i>For Class 52 Rating, Deduct</i>	-298.44	
		<i>For Class 54 Rating, Add</i>	419.02	
		<i>For Class 55 Rating, Add</i>	629.14	
		<i>For Class 56 Rating, Add</i>	836.54	
40 05 19 00-1275	EA	16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	3,943.26	666.76
		<i>For Class 52 Rating, Deduct</i>	-322.63	
		<i>For Class 54 Rating, Add</i>	452.07	
		<i>For Class 55 Rating, Add</i>	678.31	
		<i>For Class 56 Rating, Add</i>	901.61	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1276 EA 16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,168.28	670.13
<i>For Class 52 Rating, Deduct</i>	-346.82	
<i>For Class 54 Rating, Add</i>	485.12	
<i>For Class 55 Rating, Add</i>	727.47	
<i>For Class 56 Rating, Add</i>	966.67	
40 05 19 00-1277 EA 16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,393.30	673.49
<i>For Class 52 Rating, Deduct</i>	-371.01	
<i>For Class 54 Rating, Add</i>	518.17	
<i>For Class 55 Rating, Add</i>	776.64	
<i>For Class 56 Rating, Add</i>	1,031.73	
40 05 19 00-1278 EA 16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,618.32	676.87
<i>For Class 52 Rating, Deduct</i>	-395.20	
<i>For Class 54 Rating, Add</i>	551.22	
<i>For Class 55 Rating, Add</i>	825.80	
<i>For Class 56 Rating, Add</i>	1,096.79	
40 05 19 00-1279 EA 16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,843.35	680.22
<i>For Class 52 Rating, Deduct</i>	-419.40	
<i>For Class 54 Rating, Add</i>	584.27	
<i>For Class 55 Rating, Add</i>	874.97	
<i>For Class 56 Rating, Add</i>	1,161.85	
40 05 19 00-1280 EA 16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,068.38	683.60
<i>For Class 52 Rating, Deduct</i>	-443.59	
<i>For Class 54 Rating, Add</i>	617.32	
<i>For Class 55 Rating, Add</i>	924.13	
<i>For Class 56 Rating, Add</i>	1,226.91	
40 05 19 00-1281 EA 16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,293.40	686.96
<i>For Class 52 Rating, Deduct</i>	-467.78	
<i>For Class 54 Rating, Add</i>	650.37	
<i>For Class 55 Rating, Add</i>	973.30	
<i>For Class 56 Rating, Add</i>	1,291.97	
40 05 19 00-1282 EA 16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,518.42	690.34
<i>For Class 52 Rating, Deduct</i>	-491.97	
<i>For Class 54 Rating, Add</i>	683.42	
<i>For Class 55 Rating, Add</i>	1,022.46	
<i>For Class 56 Rating, Add</i>	1,357.03	
40 05 19 00-1283 EA 16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,743.45	693.69
<i>For Class 52 Rating, Deduct</i>	-516.16	
<i>For Class 54 Rating, Add</i>	716.47	
<i>For Class 55 Rating, Add</i>	1,071.63	
<i>For Class 56 Rating, Add</i>	1,422.09	
40 05 19 00-1284 EA 16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,968.48	697.07
<i>For Class 52 Rating, Deduct</i>	-540.35	
<i>For Class 54 Rating, Add</i>	749.52	
<i>For Class 55 Rating, Add</i>	1,120.79	
<i>For Class 56 Rating, Add</i>	1,487.15	
40 05 19 00-1285 EA 16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,193.50	700.44
<i>For Class 52 Rating, Deduct</i>	-564.55	
<i>For Class 54 Rating, Add</i>	782.57	
<i>For Class 55 Rating, Add</i>	1,169.96	
<i>For Class 56 Rating, Add</i>	1,552.21	
40 05 19 00-1286 EA 16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,418.52	703.80
<i>For Class 52 Rating, Deduct</i>	-588.74	
<i>For Class 54 Rating, Add</i>	815.62	
<i>For Class 55 Rating, Add</i>	1,219.12	
<i>For Class 56 Rating, Add</i>	1,617.27	
40 05 19 00-1287 EA 16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,643.55	707.17
<i>For Class 52 Rating, Deduct</i>	-612.93	
<i>For Class 54 Rating, Add</i>	848.67	
<i>For Class 55 Rating, Add</i>	1,268.29	
<i>For Class 56 Rating, Add</i>	1,682.34	
40 05 19 00-1288 EA 16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,868.57	710.54
<i>For Class 52 Rating, Deduct</i>	-637.12	
<i>For Class 54 Rating, Add</i>	881.72	
<i>For Class 55 Rating, Add</i>	1,317.45	
<i>For Class 56 Rating, Add</i>	1,747.40	
40 05 19 00-1289 EA 16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,093.60	713.91
<i>For Class 52 Rating, Deduct</i>	-661.31	
<i>For Class 54 Rating, Add</i>	914.77	
<i>For Class 55 Rating, Add</i>	1,366.62	
<i>For Class 56 Rating, Add</i>	1,812.46	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1290	EA		16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,318.62	717.27
			<i>For Class 52 Rating, Deduct</i> .....	-685.50	
			<i>For Class 54 Rating, Add</i> .....	947.82	
			<i>For Class 55 Rating, Add</i> .....	1,415.78	
			<i>For Class 56 Rating, Add</i> .....	1,877.52	
40 05 19 00-1291	EA		16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,543.65	720.64
			<i>For Class 52 Rating, Deduct</i> .....	-709.69	
			<i>For Class 54 Rating, Add</i> .....	980.87	
			<i>For Class 55 Rating, Add</i> .....	1,464.95	
			<i>For Class 56 Rating, Add</i> .....	1,942.58	
40 05 19 00-1292	EA		16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,768.67	724.01
			<i>For Class 52 Rating, Deduct</i> .....	-733.89	
			<i>For Class 54 Rating, Add</i> .....	1,013.92	
			<i>For Class 55 Rating, Add</i> .....	1,514.11	
			<i>For Class 56 Rating, Add</i> .....	2,007.64	
40 05 19 00-1293	EA		16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,993.69	727.38
			<i>For Class 52 Rating, Deduct</i> .....	-758.08	
			<i>For Class 54 Rating, Add</i> .....	1,046.97	
			<i>For Class 55 Rating, Add</i> .....	1,563.28	
			<i>For Class 56 Rating, Add</i> .....	2,072.70	
40 05 19 00-1294	EA		16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,218.72	730.74
			<i>For Class 52 Rating, Deduct</i> .....	-782.27	
			<i>For Class 54 Rating, Add</i> .....	1,080.02	
			<i>For Class 55 Rating, Add</i> .....	1,612.44	
			<i>For Class 56 Rating, Add</i> .....	2,137.76	
40 05 19 00-1295	EA		16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,443.75	734.11
			<i>For Class 52 Rating, Deduct</i> .....	-806.46	
			<i>For Class 54 Rating, Add</i> .....	1,113.07	
			<i>For Class 55 Rating, Add</i> .....	1,661.61	
			<i>For Class 56 Rating, Add</i> .....	2,202.82	
40 05 19 00-1296	EA		16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,668.77	737.48
			<i>For Class 52 Rating, Deduct</i> .....	-830.65	
			<i>For Class 54 Rating, Add</i> .....	1,146.12	
			<i>For Class 55 Rating, Add</i> .....	1,710.78	
			<i>For Class 56 Rating, Add</i> .....	2,267.88	
40 05 19 00-1297	EA		16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,893.79	740.84
			<i>For Class 52 Rating, Deduct</i> .....	-854.84	
			<i>For Class 54 Rating, Add</i> .....	1,179.16	
			<i>For Class 55 Rating, Add</i> .....	1,759.94	
			<i>For Class 56 Rating, Add</i> .....	2,332.94	
40 05 19 00-1298	EA		16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,118.82	744.21
			<i>For Class 52 Rating, Deduct</i> .....	-879.03	
			<i>For Class 54 Rating, Add</i> .....	1,212.21	
			<i>For Class 55 Rating, Add</i> .....	1,809.10	
			<i>For Class 56 Rating, Add</i> .....	2,398.00	
40 05 19 00-1299	EA		16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,343.85	747.58
			<i>For Class 52 Rating, Deduct</i> .....	-903.23	
			<i>For Class 54 Rating, Add</i> .....	1,245.26	
			<i>For Class 55 Rating, Add</i> .....	1,858.27	
			<i>For Class 56 Rating, Add</i> .....	2,463.07	
40 05 19 00-1300	EA		16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,568.87	750.96
			<i>For Class 52 Rating, Deduct</i> .....	-927.42	
			<i>For Class 54 Rating, Add</i> .....	1,278.31	
			<i>For Class 55 Rating, Add</i> .....	1,907.44	
			<i>For Class 56 Rating, Add</i> .....	2,528.13	
40 05 19 00-1301	EA		16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,793.89	754.31
			<i>For Class 52 Rating, Deduct</i> .....	-951.61	
			<i>For Class 54 Rating, Add</i> .....	1,311.36	
			<i>For Class 55 Rating, Add</i> .....	1,956.60	
			<i>For Class 56 Rating, Add</i> .....	2,593.19	
40 05 19 00-1302	EA		16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,018.91	757.68
			<i>For Class 52 Rating, Deduct</i> .....	-975.80	
			<i>For Class 54 Rating, Add</i> .....	1,344.41	
			<i>For Class 55 Rating, Add</i> .....	2,005.76	
			<i>For Class 56 Rating, Add</i> .....	2,658.25	
40 05 19 00-1303	EA		16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,243.95	761.05
			<i>For Class 52 Rating, Deduct</i> .....	-999.99	
			<i>For Class 54 Rating, Add</i> .....	1,377.46	
			<i>For Class 55 Rating, Add</i> .....	2,054.93	
			<i>For Class 56 Rating, Add</i> .....	2,723.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1304 EA 16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,468.97	764.41
For Class 52 Rating, Deduct	-1,024.18	
For Class 54 Rating, Add	1,410.51	
For Class 55 Rating, Add	2,104.10	
For Class 56 Rating, Add	2,788.37	
40 05 19 00-1305 EA 16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,693.99	767.78
For Class 52 Rating, Deduct	-1,048.37	
For Class 54 Rating, Add	1,443.56	
For Class 55 Rating, Add	2,153.26	
For Class 56 Rating, Add	2,853.43	
40 05 19 00-1306 EA 16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,919.01	771.16
For Class 52 Rating, Deduct	-1,072.57	
For Class 54 Rating, Add	1,476.61	
For Class 55 Rating, Add	2,202.43	
For Class 56 Rating, Add	2,918.49	
<b>40 05 19 00-1307 18" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1308 EA 18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	2,996.73	728.73
For Class 52 Rating, Deduct	-208.19	
For Class 54 Rating, Add	297.14	
For Class 55 Rating, Add	448.55	
For Class 56 Rating, Add	598.07	
40 05 19 00-1309 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,255.59	732.10
For Class 52 Rating, Deduct	-236.10	
For Class 54 Rating, Add	335.26	
For Class 55 Rating, Add	505.26	
For Class 56 Rating, Add	673.11	
40 05 19 00-1310 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,514.45	735.46
For Class 52 Rating, Deduct	-264.01	
For Class 54 Rating, Add	373.39	
For Class 55 Rating, Add	561.97	
For Class 56 Rating, Add	748.15	
40 05 19 00-1311 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,773.31	738.83
For Class 52 Rating, Deduct	-291.93	
For Class 54 Rating, Add	411.51	
For Class 55 Rating, Add	618.68	
For Class 56 Rating, Add	823.19	
40 05 19 00-1312 EA 18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,032.17	742.20
For Class 52 Rating, Deduct	-319.84	
For Class 54 Rating, Add	449.64	
For Class 55 Rating, Add	675.39	
For Class 56 Rating, Add	898.23	
40 05 19 00-1313 EA 18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,291.03	745.55
For Class 52 Rating, Deduct	-347.75	
For Class 54 Rating, Add	487.76	
For Class 55 Rating, Add	732.10	
For Class 56 Rating, Add	973.28	
40 05 19 00-1314 EA 18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,549.88	748.93
For Class 52 Rating, Deduct	-375.67	
For Class 54 Rating, Add	525.89	
For Class 55 Rating, Add	788.81	
For Class 56 Rating, Add	1,048.32	
40 05 19 00-1315 EA 18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,808.74	752.30
For Class 52 Rating, Deduct	-403.58	
For Class 54 Rating, Add	564.01	
For Class 55 Rating, Add	845.52	
For Class 56 Rating, Add	1,123.36	
40 05 19 00-1316 EA 18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,067.61	755.67
For Class 52 Rating, Deduct	-431.49	
For Class 54 Rating, Add	602.14	
For Class 55 Rating, Add	902.23	
For Class 56 Rating, Add	1,198.40	
40 05 19 00-1317 EA 18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,326.46	759.03
For Class 52 Rating, Deduct	-459.41	
For Class 54 Rating, Add	640.26	
For Class 55 Rating, Add	958.94	
For Class 56 Rating, Add	1,273.44	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1318	EA		18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,585.32	762.40
			<i>For Class 52 Rating, Deduct</i> .....	-487.32	
			<i>For Class 54 Rating, Add</i> .....	678.39	
			<i>For Class 55 Rating, Add</i> .....	1,015.65	
			<i>For Class 56 Rating, Add</i> .....	1,348.49	
40 05 19 00-1319	EA		18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,844.18	765.77
			<i>For Class 52 Rating, Deduct</i> .....	-515.23	
			<i>For Class 54 Rating, Add</i> .....	716.51	
			<i>For Class 55 Rating, Add</i> .....	1,072.36	
			<i>For Class 56 Rating, Add</i> .....	1,423.53	
40 05 19 00-1320	EA		18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,103.04	769.13
			<i>For Class 52 Rating, Deduct</i> .....	-543.14	
			<i>For Class 54 Rating, Add</i> .....	754.64	
			<i>For Class 55 Rating, Add</i> .....	1,129.07	
			<i>For Class 56 Rating, Add</i> .....	1,498.57	
40 05 19 00-1321	EA		18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,361.90	772.50
			<i>For Class 52 Rating, Deduct</i> .....	-571.06	
			<i>For Class 54 Rating, Add</i> .....	792.76	
			<i>For Class 55 Rating, Add</i> .....	1,185.78	
			<i>For Class 56 Rating, Add</i> .....	1,573.61	
40 05 19 00-1322	EA		18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,620.76	775.87
			<i>For Class 52 Rating, Deduct</i> .....	-598.97	
			<i>For Class 54 Rating, Add</i> .....	830.89	
			<i>For Class 55 Rating, Add</i> .....	1,242.49	
			<i>For Class 56 Rating, Add</i> .....	1,648.65	
40 05 19 00-1323	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	6,879.61	779.24
			<i>For Class 52 Rating, Deduct</i> .....	-626.88	
			<i>For Class 54 Rating, Add</i> .....	869.01	
			<i>For Class 55 Rating, Add</i> .....	1,299.20	
			<i>For Class 56 Rating, Add</i> .....	1,723.69	
40 05 19 00-1324	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,138.47	782.60
			<i>For Class 52 Rating, Deduct</i> .....	-654.80	
			<i>For Class 54 Rating, Add</i> .....	907.14	
			<i>For Class 55 Rating, Add</i> .....	1,355.91	
			<i>For Class 56 Rating, Add</i> .....	1,798.74	
40 05 19 00-1325	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,397.34	785.97
			<i>For Class 52 Rating, Deduct</i> .....	-682.71	
			<i>For Class 54 Rating, Add</i> .....	945.26	
			<i>For Class 55 Rating, Add</i> .....	1,412.62	
			<i>For Class 56 Rating, Add</i> .....	1,873.78	
40 05 19 00-1326	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,656.20	789.35
			<i>For Class 52 Rating, Deduct</i> .....	-710.63	
			<i>For Class 54 Rating, Add</i> .....	983.39	
			<i>For Class 55 Rating, Add</i> .....	1,469.33	
			<i>For Class 56 Rating, Add</i> .....	1,948.82	
40 05 19 00-1327	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	7,915.05	792.70
			<i>For Class 52 Rating, Deduct</i> .....	-738.54	
			<i>For Class 54 Rating, Add</i> .....	1,021.51	
			<i>For Class 55 Rating, Add</i> .....	1,526.04	
			<i>For Class 56 Rating, Add</i> .....	2,023.86	
40 05 19 00-1328	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,173.91	796.07
			<i>For Class 52 Rating, Deduct</i> .....	-766.45	
			<i>For Class 54 Rating, Add</i> .....	1,059.64	
			<i>For Class 55 Rating, Add</i> .....	1,582.75	
			<i>For Class 56 Rating, Add</i> .....	2,098.91	
40 05 19 00-1329	EA		18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,432.77	799.44
			<i>For Class 52 Rating, Deduct</i> .....	-794.37	
			<i>For Class 54 Rating, Add</i> .....	1,097.76	
			<i>For Class 55 Rating, Add</i> .....	1,639.46	
			<i>For Class 56 Rating, Add</i> .....	2,173.95	
40 05 19 00-1330	EA		18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,691.63	802.82
			<i>For Class 52 Rating, Deduct</i> .....	-822.28	
			<i>For Class 54 Rating, Add</i> .....	1,135.88	
			<i>For Class 55 Rating, Add</i> .....	1,696.17	
			<i>For Class 56 Rating, Add</i> .....	2,248.99	
40 05 19 00-1331	EA		18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,950.49	806.17
			<i>For Class 52 Rating, Deduct</i> .....	-850.19	
			<i>For Class 54 Rating, Add</i> .....	1,174.01	
			<i>For Class 55 Rating, Add</i> .....	1,752.88	
			<i>For Class 56 Rating, Add</i> .....	2,324.03	





<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1332 EA 18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,209.35	809.55
<i>For Class 52 Rating, Deduct</i>	-878.10	
<i>For Class 54 Rating, Add</i>	1,212.13	
<i>For Class 55 Rating, Add</i>	1,809.60	
<i>For Class 56 Rating, Add</i>	2,399.07	
40 05 19 00-1333 EA 18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,468.20	812.91
<i>For Class 52 Rating, Deduct</i>	-906.02	
<i>For Class 54 Rating, Add</i>	1,250.26	
<i>For Class 55 Rating, Add</i>	1,866.30	
<i>For Class 56 Rating, Add</i>	2,474.11	
40 05 19 00-1334 EA 18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,727.07	816.29
<i>For Class 52 Rating, Deduct</i>	-933.93	
<i>For Class 54 Rating, Add</i>	1,288.38	
<i>For Class 55 Rating, Add</i>	1,923.02	
<i>For Class 56 Rating, Add</i>	2,549.16	
40 05 19 00-1335 EA 18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,985.93	819.64
<i>For Class 52 Rating, Deduct</i>	-961.84	
<i>For Class 54 Rating, Add</i>	1,326.51	
<i>For Class 55 Rating, Add</i>	1,979.73	
<i>For Class 56 Rating, Add</i>	2,624.20	
40 05 19 00-1336 EA 18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,244.78	823.02
<i>For Class 52 Rating, Deduct</i>	-989.76	
<i>For Class 54 Rating, Add</i>	1,364.63	
<i>For Class 55 Rating, Add</i>	2,036.43	
<i>For Class 56 Rating, Add</i>	2,699.24	
40 05 19 00-1337 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,503.64	826.38
<i>For Class 52 Rating, Deduct</i>	-1,017.67	
<i>For Class 54 Rating, Add</i>	1,402.76	
<i>For Class 55 Rating, Add</i>	2,093.15	
<i>For Class 56 Rating, Add</i>	2,774.28	
40 05 19 00-1338 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,762.50	829.75
<i>For Class 52 Rating, Deduct</i>	-1,045.58	
<i>For Class 54 Rating, Add</i>	1,440.88	
<i>For Class 55 Rating, Add</i>	2,149.86	
<i>For Class 56 Rating, Add</i>	2,849.33	
40 05 19 00-1339 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,021.36	833.11
<i>For Class 52 Rating, Deduct</i>	-1,073.50	
<i>For Class 54 Rating, Add</i>	1,479.01	
<i>For Class 55 Rating, Add</i>	2,206.57	
<i>For Class 56 Rating, Add</i>	2,924.37	
40 05 19 00-1340 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,280.22	836.49
<i>For Class 52 Rating, Deduct</i>	-1,101.41	
<i>For Class 54 Rating, Add</i>	1,517.13	
<i>For Class 55 Rating, Add</i>	2,263.28	
<i>For Class 56 Rating, Add</i>	2,999.41	
40 05 19 00-1341 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,539.08	839.85
<i>For Class 52 Rating, Deduct</i>	-1,129.32	
<i>For Class 54 Rating, Add</i>	1,555.26	
<i>For Class 55 Rating, Add</i>	2,319.99	
<i>For Class 56 Rating, Add</i>	3,074.45	
40 05 19 00-1342 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,797.93	843.22
<i>For Class 52 Rating, Deduct</i>	-1,157.24	
<i>For Class 54 Rating, Add</i>	1,593.38	
<i>For Class 55 Rating, Add</i>	2,376.70	
<i>For Class 56 Rating, Add</i>	3,149.49	
40 05 19 00-1343 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,056.79	846.58
<i>For Class 52 Rating, Deduct</i>	-1,185.15	
<i>For Class 54 Rating, Add</i>	1,631.51	
<i>For Class 55 Rating, Add</i>	2,433.41	
<i>For Class 56 Rating, Add</i>	3,224.53	
40 05 19 00-1344 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,315.66	849.96
<i>For Class 52 Rating, Deduct</i>	-1,213.06	
<i>For Class 54 Rating, Add</i>	1,669.63	
<i>For Class 55 Rating, Add</i>	2,490.12	
<i>For Class 56 Rating, Add</i>	3,299.58	
40 05 19 00-1345 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,574.51	853.31
<i>For Class 52 Rating, Deduct</i>	-1,240.98	
<i>For Class 54 Rating, Add</i>	1,707.75	
<i>For Class 55 Rating, Add</i>	2,546.83	
<i>For Class 56 Rating, Add</i>	3,374.62	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1346			<b>20" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1347	EA		20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,489.08	831.77
			For Class 52 Rating, Deduct	-245.17	
			For Class 54 Rating, Add	349.45	
			For Class 55 Rating, Add	527.28	
			For Class 56 Rating, Add	702.87	
40 05 19 00-1348	EA		20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	3,786.00	835.15
			For Class 52 Rating, Deduct	-277.27	
			For Class 54 Rating, Add	393.28	
			For Class 55 Rating, Add	592.47	
			For Class 56 Rating, Add	789.14	
40 05 19 00-1349	EA		20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,082.93	838.50
			For Class 52 Rating, Deduct	-309.37	
			For Class 54 Rating, Add	437.12	
			For Class 55 Rating, Add	657.67	
			For Class 56 Rating, Add	875.42	
40 05 19 00-1350	EA		20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,379.85	841.87
			For Class 52 Rating, Deduct	-341.47	
			For Class 54 Rating, Add	480.95	
			For Class 55 Rating, Add	722.87	
			For Class 56 Rating, Add	961.69	
40 05 19 00-1351	EA		20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,676.77	845.24
			For Class 52 Rating, Deduct	-373.57	
			For Class 54 Rating, Add	524.78	
			For Class 55 Rating, Add	788.07	
			For Class 56 Rating, Add	1,047.96	
40 05 19 00-1352	EA		20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	4,973.70	848.60
			For Class 52 Rating, Deduct	-405.67	
			For Class 54 Rating, Add	568.62	
			For Class 55 Rating, Add	853.27	
			For Class 56 Rating, Add	1,134.23	
40 05 19 00-1353	EA		20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,270.62	851.97
			For Class 52 Rating, Deduct	-437.77	
			For Class 54 Rating, Add	612.45	
			For Class 55 Rating, Add	918.47	
			For Class 56 Rating, Add	1,220.50	
40 05 19 00-1354	EA		20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,567.55	855.35
			For Class 52 Rating, Deduct	-469.87	
			For Class 54 Rating, Add	656.29	
			For Class 55 Rating, Add	983.66	
			For Class 56 Rating, Add	1,306.77	
40 05 19 00-1355	EA		20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	5,864.47	858.71
			For Class 52 Rating, Deduct	-501.97	
			For Class 54 Rating, Add	700.12	
			For Class 55 Rating, Add	1,048.86	
			For Class 56 Rating, Add	1,393.04	
40 05 19 00-1356	EA		20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,161.39	862.07
			For Class 52 Rating, Deduct	-534.07	
			For Class 54 Rating, Add	743.96	
			For Class 55 Rating, Add	1,114.06	
			For Class 56 Rating, Add	1,479.31	
40 05 19 00-1357	EA		20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,458.31	865.44
			For Class 52 Rating, Deduct	-566.17	
			For Class 54 Rating, Add	787.79	
			For Class 55 Rating, Add	1,179.26	
			For Class 56 Rating, Add	1,565.58	
40 05 19 00-1358	EA		20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,755.23	868.82
			For Class 52 Rating, Deduct	-598.27	
			For Class 54 Rating, Add	831.62	
			For Class 55 Rating, Add	1,244.46	
			For Class 56 Rating, Add	1,651.85	
40 05 19 00-1359	EA		20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,052.16	872.17
			For Class 52 Rating, Deduct	-630.37	
			For Class 54 Rating, Add	875.46	
			For Class 55 Rating, Add	1,309.66	
			For Class 56 Rating, Add	1,738.12	
40 05 19 00-1360	EA		20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,349.08	875.54
			For Class 52 Rating, Deduct	-662.47	
			For Class 54 Rating, Add	919.29	
			For Class 55 Rating, Add	1,374.85	
			For Class 56 Rating, Add	1,824.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1361 EA 20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,646.01	878.91
For Class 52 Rating, Deduct	-694.58	
For Class 54 Rating, Add	963.13	
For Class 55 Rating, Add	1,440.05	
For Class 56 Rating, Add	1,910.67	
40 05 19 00-1362 EA 20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,942.93	882.29
For Class 52 Rating, Deduct	-726.68	
For Class 54 Rating, Add	1,006.96	
For Class 55 Rating, Add	1,505.25	
For Class 56 Rating, Add	1,996.94	
40 05 19 00-1363 EA 20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,239.86	885.64
For Class 52 Rating, Deduct	-758.78	
For Class 54 Rating, Add	1,050.80	
For Class 55 Rating, Add	1,570.45	
For Class 56 Rating, Add	2,083.21	
40 05 19 00-1364 EA 20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,536.78	889.02
For Class 52 Rating, Deduct	-790.88	
For Class 54 Rating, Add	1,094.63	
For Class 55 Rating, Add	1,635.65	
For Class 56 Rating, Add	2,169.48	
40 05 19 00-1365 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,833.70	892.39
For Class 52 Rating, Deduct	-822.98	
For Class 54 Rating, Add	1,138.47	
For Class 55 Rating, Add	1,700.85	
For Class 56 Rating, Add	2,255.75	
40 05 19 00-1366 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,130.62	895.76
For Class 52 Rating, Deduct	-855.08	
For Class 54 Rating, Add	1,182.30	
For Class 55 Rating, Add	1,766.05	
For Class 56 Rating, Add	2,342.02	
40 05 19 00-1367 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,427.54	899.12
For Class 52 Rating, Deduct	-887.18	
For Class 54 Rating, Add	1,226.13	
For Class 55 Rating, Add	1,831.24	
For Class 56 Rating, Add	2,428.29	
40 05 19 00-1368 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,724.47	902.49
For Class 52 Rating, Deduct	-919.28	
For Class 54 Rating, Add	1,269.97	
For Class 55 Rating, Add	1,896.44	
For Class 56 Rating, Add	2,514.56	
40 05 19 00-1369 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,021.39	905.86
For Class 52 Rating, Deduct	-951.38	
For Class 54 Rating, Add	1,313.80	
For Class 55 Rating, Add	1,961.64	
For Class 56 Rating, Add	2,600.83	
40 05 19 00-1370 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,318.31	909.21
For Class 52 Rating, Deduct	-983.48	
For Class 54 Rating, Add	1,357.64	
For Class 55 Rating, Add	2,026.84	
For Class 56 Rating, Add	2,687.10	
40 05 19 00-1371 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,615.23	912.59
For Class 52 Rating, Deduct	-1,015.58	
For Class 54 Rating, Add	1,401.47	
For Class 55 Rating, Add	2,092.04	
For Class 56 Rating, Add	2,773.37	
40 05 19 00-1372 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,912.15	915.96
For Class 52 Rating, Deduct	-1,047.68	
For Class 54 Rating, Add	1,445.30	
For Class 55 Rating, Add	2,157.24	
For Class 56 Rating, Add	2,859.64	
40 05 19 00-1373 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,209.08	919.33
For Class 52 Rating, Deduct	-1,079.78	
For Class 54 Rating, Add	1,489.14	
For Class 55 Rating, Add	2,222.43	
For Class 56 Rating, Add	2,945.91	
40 05 19 00-1374 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,506.00	922.69
For Class 52 Rating, Deduct	-1,111.88	
For Class 54 Rating, Add	1,532.97	
For Class 55 Rating, Add	2,287.63	
For Class 56 Rating, Add	3,032.18	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1375	EA		20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,802.92	926.06
			<i>For Class 52 Rating, Deduct</i> .....	-1,143.98	
			<i>For Class 54 Rating, Add</i> .....	1,576.81	
			<i>For Class 55 Rating, Add</i> .....	2,352.83	
			<i>For Class 56 Rating, Add</i> .....	3,118.45	
40 05 19 00-1376	EA		20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,099.84	929.43
			<i>For Class 52 Rating, Deduct</i> .....	-1,176.08	
			<i>For Class 54 Rating, Add</i> .....	1,620.64	
			<i>For Class 55 Rating, Add</i> .....	2,418.03	
			<i>For Class 56 Rating, Add</i> .....	3,204.72	
40 05 19 00-1377	EA		20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,396.77	932.79
			<i>For Class 52 Rating, Deduct</i> .....	-1,208.18	
			<i>For Class 54 Rating, Add</i> .....	1,664.48	
			<i>For Class 55 Rating, Add</i> .....	2,483.23	
			<i>For Class 56 Rating, Add</i> .....	3,290.99	
40 05 19 00-1378	EA		20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,693.69	936.16
			<i>For Class 52 Rating, Deduct</i> .....	-1,240.28	
			<i>For Class 54 Rating, Add</i> .....	1,708.31	
			<i>For Class 55 Rating, Add</i> .....	2,548.43	
			<i>For Class 56 Rating, Add</i> .....	3,377.27	
40 05 19 00-1379	EA		20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,990.61	939.53
			<i>For Class 52 Rating, Deduct</i> .....	-1,272.38	
			<i>For Class 54 Rating, Add</i> .....	1,752.14	
			<i>For Class 55 Rating, Add</i> .....	2,613.62	
			<i>For Class 56 Rating, Add</i> .....	3,463.54	
40 05 19 00-1380	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,287.53	942.91
			<i>For Class 52 Rating, Deduct</i> .....	-1,304.48	
			<i>For Class 54 Rating, Add</i> .....	1,795.98	
			<i>For Class 55 Rating, Add</i> .....	2,678.82	
			<i>For Class 56 Rating, Add</i> .....	3,549.81	
40 05 19 00-1381	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,584.45	946.26
			<i>For Class 52 Rating, Deduct</i> .....	-1,336.58	
			<i>For Class 54 Rating, Add</i> .....	1,839.81	
			<i>For Class 55 Rating, Add</i> .....	2,744.02	
			<i>For Class 56 Rating, Add</i> .....	3,636.08	
40 05 19 00-1382	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,881.38	949.63
			<i>For Class 52 Rating, Deduct</i> .....	-1,368.68	
			<i>For Class 54 Rating, Add</i> .....	1,883.65	
			<i>For Class 55 Rating, Add</i> .....	2,809.22	
			<i>For Class 56 Rating, Add</i> .....	3,722.35	
40 05 19 00-1383	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,178.30	953.00
			<i>For Class 52 Rating, Deduct</i> .....	-1,400.78	
			<i>For Class 54 Rating, Add</i> .....	1,927.48	
			<i>For Class 55 Rating, Add</i> .....	2,874.42	
			<i>For Class 56 Rating, Add</i> .....	3,808.62	
40 05 19 00-1384	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,475.22	956.35
			<i>For Class 52 Rating, Deduct</i> .....	-1,432.88	
			<i>For Class 54 Rating, Add</i> .....	1,971.32	
			<i>For Class 55 Rating, Add</i> .....	2,939.62	
			<i>For Class 56 Rating, Add</i> .....	3,894.89	
40 05 19 00-1385			<b>24" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1386	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,272.73	983.31
			<i>For Class 52 Rating, Deduct</i> .....	-306.12	
			<i>For Class 54 Rating, Add</i> .....	435.31	
			<i>For Class 55 Rating, Add</i> .....	656.34	
			<i>For Class 56 Rating, Add</i> .....	874.58	
40 05 19 00-1387	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	4,639.43	986.67
			<i>For Class 52 Rating, Deduct</i> .....	-345.89	
			<i>For Class 54 Rating, Add</i> .....	489.61	
			<i>For Class 55 Rating, Add</i> .....	737.10	
			<i>For Class 56 Rating, Add</i> .....	981.44	
40 05 19 00-1388	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	5,006.13	990.05
			<i>For Class 52 Rating, Deduct</i> .....	-385.67	
			<i>For Class 54 Rating, Add</i> .....	543.91	
			<i>For Class 55 Rating, Add</i> .....	817.86	
			<i>For Class 56 Rating, Add</i> .....	1,088.29	



<b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>
<b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span>
Ductile Iron Process Pipe 40 05 19 <span style="float: right;"><b>40</b></span>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1389 EA 24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	5,372.84	993.40
For Class 52 Rating, Deduct	-425.44	
For Class 54 Rating, Add	598.21	
For Class 55 Rating, Add	898.62	
For Class 56 Rating, Add	1,195.15	
40 05 19 00-1390 EA 24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	5,739.55	996.78
For Class 52 Rating, Deduct	-465.22	
For Class 54 Rating, Add	652.52	
For Class 55 Rating, Add	979.38	
For Class 56 Rating, Add	1,302.01	
40 05 19 00-1391 EA 24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	6,106.25	1,000.14
For Class 52 Rating, Deduct	-505.00	
For Class 54 Rating, Add	706.82	
For Class 55 Rating, Add	1,060.14	
For Class 56 Rating, Add	1,408.86	
40 05 19 00-1392 EA 24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	6,472.96	1,003.52
For Class 52 Rating, Deduct	-544.77	
For Class 54 Rating, Add	761.12	
For Class 55 Rating, Add	1,140.90	
For Class 56 Rating, Add	1,515.72	
40 05 19 00-1393 EA 24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	6,839.66	1,006.87
For Class 52 Rating, Deduct	-584.55	
For Class 54 Rating, Add	815.42	
For Class 55 Rating, Add	1,221.66	
For Class 56 Rating, Add	1,622.58	
40 05 19 00-1394 EA 24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	7,206.37	1,010.25
For Class 52 Rating, Deduct	-624.33	
For Class 54 Rating, Add	869.72	
For Class 55 Rating, Add	1,302.42	
For Class 56 Rating, Add	1,729.43	
40 05 19 00-1395 EA 24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	7,573.08	1,013.62
For Class 52 Rating, Deduct	-664.10	
For Class 54 Rating, Add	924.02	
For Class 55 Rating, Add	1,383.18	
For Class 56 Rating, Add	1,836.29	
40 05 19 00-1396 EA 24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	7,939.78	1,016.98
For Class 52 Rating, Deduct	-703.88	
For Class 54 Rating, Add	978.33	
For Class 55 Rating, Add	1,463.94	
For Class 56 Rating, Add	1,943.15	
40 05 19 00-1397 EA 24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	8,306.48	1,020.34
For Class 52 Rating, Deduct	-743.66	
For Class 54 Rating, Add	1,032.63	
For Class 55 Rating, Add	1,544.70	
For Class 56 Rating, Add	2,050.00	
40 05 19 00-1398 EA 24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	8,673.19	1,023.72
For Class 52 Rating, Deduct	-783.43	
For Class 54 Rating, Add	1,086.93	
For Class 55 Rating, Add	1,625.46	
For Class 56 Rating, Add	2,156.86	
40 05 19 00-1399 EA 24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	9,039.90	1,027.09
For Class 52 Rating, Deduct	-823.21	
For Class 54 Rating, Add	1,141.23	
For Class 55 Rating, Add	1,706.22	
For Class 56 Rating, Add	2,263.72	
40 05 19 00-1400 EA 24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	9,406.60	1,030.45
For Class 52 Rating, Deduct	-862.98	
For Class 54 Rating, Add	1,195.53	
For Class 55 Rating, Add	1,786.98	
For Class 56 Rating, Add	2,370.57	
40 05 19 00-1401 EA 24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	9,773.31	1,033.82
For Class 52 Rating, Deduct	-902.76	
For Class 54 Rating, Add	1,249.83	
For Class 55 Rating, Add	1,867.74	
For Class 56 Rating, Add	2,477.43	
40 05 19 00-1402 EA 24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron		
Pipe .....	10,140.01	1,037.19
For Class 52 Rating, Deduct	-942.54	
For Class 54 Rating, Add	1,304.14	
For Class 55 Rating, Add	1,948.50	
For Class 56 Rating, Add	2,584.29	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1403	EA	24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,506.71	1,040.55
		<i>For Class 52 Rating, Deduct</i> .....	-982.31	
		<i>For Class 54 Rating, Add</i> .....	1,358.44	
		<i>For Class 55 Rating, Add</i> .....	2,029.25	
		<i>For Class 56 Rating, Add</i> .....	2,691.14	
40 05 19 00-1404	EA	24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,873.43	1,043.92
		<i>For Class 52 Rating, Deduct</i> .....	-1,022.09	
		<i>For Class 54 Rating, Add</i> .....	1,412.74	
		<i>For Class 55 Rating, Add</i> .....	2,110.02	
		<i>For Class 56 Rating, Add</i> .....	2,798.00	
40 05 19 00-1405	EA	24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,240.13	1,047.29
		<i>For Class 52 Rating, Deduct</i> .....	-1,061.87	
		<i>For Class 54 Rating, Add</i> .....	1,467.04	
		<i>For Class 55 Rating, Add</i> .....	2,190.78	
		<i>For Class 56 Rating, Add</i> .....	2,904.86	
40 05 19 00-1406	EA	24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,606.84	1,050.66
		<i>For Class 52 Rating, Deduct</i> .....	-1,101.64	
		<i>For Class 54 Rating, Add</i> .....	1,521.34	
		<i>For Class 55 Rating, Add</i> .....	2,271.54	
		<i>For Class 56 Rating, Add</i> .....	3,011.72	
40 05 19 00-1407	EA	24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,973.54	1,054.02
		<i>For Class 52 Rating, Deduct</i> .....	-1,141.42	
		<i>For Class 54 Rating, Add</i> .....	1,575.65	
		<i>For Class 55 Rating, Add</i> .....	2,352.30	
		<i>For Class 56 Rating, Add</i> .....	3,118.57	
40 05 19 00-1408	EA	24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,340.25	1,057.39
		<i>For Class 52 Rating, Deduct</i> .....	-1,181.20	
		<i>For Class 54 Rating, Add</i> .....	1,629.95	
		<i>For Class 55 Rating, Add</i> .....	2,433.06	
		<i>For Class 56 Rating, Add</i> .....	3,225.43	
40 05 19 00-1409	EA	24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,706.96	1,060.76
		<i>For Class 52 Rating, Deduct</i> .....	-1,220.97	
		<i>For Class 54 Rating, Add</i> .....	1,684.25	
		<i>For Class 55 Rating, Add</i> .....	2,513.82	
		<i>For Class 56 Rating, Add</i> .....	3,332.29	
40 05 19 00-1410	EA	24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,073.66	1,064.14
		<i>For Class 52 Rating, Deduct</i> .....	-1,260.75	
		<i>For Class 54 Rating, Add</i> .....	1,738.55	
		<i>For Class 55 Rating, Add</i> .....	2,594.58	
		<i>For Class 56 Rating, Add</i> .....	3,439.14	
40 05 19 00-1411	EA	24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,440.36	1,067.49
		<i>For Class 52 Rating, Deduct</i> .....	-1,300.52	
		<i>For Class 54 Rating, Add</i> .....	1,792.85	
		<i>For Class 55 Rating, Add</i> .....	2,675.34	
		<i>For Class 56 Rating, Add</i> .....	3,546.00	
40 05 19 00-1412	EA	24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,807.07	1,070.86
		<i>For Class 52 Rating, Deduct</i> .....	-1,340.30	
		<i>For Class 54 Rating, Add</i> .....	1,847.15	
		<i>For Class 55 Rating, Add</i> .....	2,756.10	
		<i>For Class 56 Rating, Add</i> .....	3,652.86	
40 05 19 00-1413	EA	24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,173.78	1,074.23
		<i>For Class 52 Rating, Deduct</i> .....	-1,380.08	
		<i>For Class 54 Rating, Add</i> .....	1,901.46	
		<i>For Class 55 Rating, Add</i> .....	2,836.86	
		<i>For Class 56 Rating, Add</i> .....	3,759.71	
40 05 19 00-1414	EA	24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,540.48	1,077.59
		<i>For Class 52 Rating, Deduct</i> .....	-1,419.85	
		<i>For Class 54 Rating, Add</i> .....	1,955.76	
		<i>For Class 55 Rating, Add</i> .....	2,917.62	
		<i>For Class 56 Rating, Add</i> .....	3,866.57	
40 05 19 00-1415	EA	24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,993.93	1,138.21
		<i>For Class 52 Rating, Deduct</i> .....	-1,459.63	
		<i>For Class 54 Rating, Add</i> .....	2,011.10	
		<i>For Class 55 Rating, Add</i> .....	3,000.46	
		<i>For Class 56 Rating, Add</i> .....	3,976.55	
40 05 19 00-1416	EA	24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,360.63	1,141.57
		<i>For Class 52 Rating, Deduct</i> .....	-1,499.41	
		<i>For Class 54 Rating, Add</i> .....	2,065.40	
		<i>For Class 55 Rating, Add</i> .....	3,081.22	
		<i>For Class 56 Rating, Add</i> .....	4,083.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1417 EA 24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,727.33	1,144.95
For Class 52 Rating, Deduct	-1,539.18	
For Class 54 Rating, Add	2,119.70	
For Class 55 Rating, Add	3,161.98	
For Class 56 Rating, Add	4,190.26	
40 05 19 00-1418 EA 24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,094.04	1,148.32
For Class 52 Rating, Deduct	-1,578.96	
For Class 54 Rating, Add	2,174.01	
For Class 55 Rating, Add	3,242.74	
For Class 56 Rating, Add	4,297.12	
40 05 19 00-1419 EA 24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,460.75	1,151.68
For Class 52 Rating, Deduct	-1,618.74	
For Class 54 Rating, Add	2,228.31	
For Class 55 Rating, Add	3,323.50	
For Class 56 Rating, Add	4,403.97	
40 05 19 00-1420 EA 24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,827.45	1,155.05
For Class 52 Rating, Deduct	-1,658.51	
For Class 54 Rating, Add	2,282.61	
For Class 55 Rating, Add	3,404.26	
For Class 56 Rating, Add	4,510.83	
40 05 19 00-1421 EA 24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,194.16	1,158.42
For Class 52 Rating, Deduct	-1,698.29	
For Class 54 Rating, Add	2,336.91	
For Class 55 Rating, Add	3,485.02	
For Class 56 Rating, Add	4,617.69	
40 05 19 00-1422 EA 24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,560.86	1,161.78
For Class 52 Rating, Deduct	-1,738.06	
For Class 54 Rating, Add	2,391.21	
For Class 55 Rating, Add	3,565.78	
For Class 56 Rating, Add	4,724.54	
40 05 19 00-1423 EA 24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,927.56	1,165.15
For Class 52 Rating, Deduct	-1,777.84	
For Class 54 Rating, Add	2,445.51	
For Class 55 Rating, Add	3,646.54	
For Class 56 Rating, Add	4,831.40	
<b>40 05 19 00-1424 30" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1425 EA 30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	6,500.58	1,387.41
For Class 52 Rating, Deduct	-483.83	
For Class 54 Rating, Add	684.99	
For Class 55 Rating, Add	1,031.31	
For Class 56 Rating, Add	1,373.22	
40 05 19 00-1426 EA 30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,028.00	1,390.76
For Class 52 Rating, Deduct	-541.28	
For Class 54 Rating, Add	763.40	
For Class 55 Rating, Add	1,147.91	
For Class 56 Rating, Add	1,527.49	
40 05 19 00-1427 EA 30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	7,555.41	1,394.14
For Class 52 Rating, Deduct	-598.74	
For Class 54 Rating, Add	841.81	
For Class 55 Rating, Add	1,264.50	
For Class 56 Rating, Add	1,681.75	
40 05 19 00-1428 EA 30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,082.83	1,397.51
For Class 52 Rating, Deduct	-656.19	
For Class 54 Rating, Add	920.22	
For Class 55 Rating, Add	1,381.10	
For Class 56 Rating, Add	1,836.02	
40 05 19 00-1429 EA 30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	8,610.25	1,400.88
For Class 52 Rating, Deduct	-713.65	
For Class 54 Rating, Add	998.63	
For Class 55 Rating, Add	1,497.70	
For Class 56 Rating, Add	1,990.29	
40 05 19 00-1430 EA 30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,137.67	1,404.23
For Class 52 Rating, Deduct	-771.10	
For Class 54 Rating, Add	1,077.04	
For Class 55 Rating, Add	1,614.30	
For Class 56 Rating, Add	2,144.55	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1431	EA		30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	9,665.09	1,407.61
			<i>For Class 52 Rating, Deduct</i>	-828.56	
			<i>For Class 54 Rating, Add</i>	1,155.45	
			<i>For Class 55 Rating, Add</i>	1,730.90	
			<i>For Class 56 Rating, Add</i>	2,298.82	
40 05 19 00-1432	EA		30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,192.50	1,410.98
			<i>For Class 52 Rating, Deduct</i>	-886.01	
			<i>For Class 54 Rating, Add</i>	1,233.85	
			<i>For Class 55 Rating, Add</i>	1,847.50	
			<i>For Class 56 Rating, Add</i>	2,453.09	
40 05 19 00-1433	EA		30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	10,719.92	1,414.34
			<i>For Class 52 Rating, Deduct</i>	-943.47	
			<i>For Class 54 Rating, Add</i>	1,312.26	
			<i>For Class 55 Rating, Add</i>	1,964.10	
			<i>For Class 56 Rating, Add</i>	2,607.35	
40 05 19 00-1434	EA		30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,247.35	1,417.71
			<i>For Class 52 Rating, Deduct</i>	-1,000.92	
			<i>For Class 54 Rating, Add</i>	1,390.67	
			<i>For Class 55 Rating, Add</i>	2,080.70	
			<i>For Class 56 Rating, Add</i>	2,761.62	
40 05 19 00-1435	EA		30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,774.76	1,421.08
			<i>For Class 52 Rating, Deduct</i>	-1,058.38	
			<i>For Class 54 Rating, Add</i>	1,469.08	
			<i>For Class 55 Rating, Add</i>	2,197.29	
			<i>For Class 56 Rating, Add</i>	2,915.89	
40 05 19 00-1436	EA		30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,302.18	1,424.45
			<i>For Class 52 Rating, Deduct</i>	-1,115.83	
			<i>For Class 54 Rating, Add</i>	1,547.49	
			<i>For Class 55 Rating, Add</i>	2,313.89	
			<i>For Class 56 Rating, Add</i>	3,070.16	
40 05 19 00-1437	EA		30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,829.59	1,427.81
			<i>For Class 52 Rating, Deduct</i>	-1,173.29	
			<i>For Class 54 Rating, Add</i>	1,625.90	
			<i>For Class 55 Rating, Add</i>	2,430.49	
			<i>For Class 56 Rating, Add</i>	3,224.42	
40 05 19 00-1438	EA		30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,357.01	1,431.18
			<i>For Class 52 Rating, Deduct</i>	-1,230.74	
			<i>For Class 54 Rating, Add</i>	1,704.31	
			<i>For Class 55 Rating, Add</i>	2,547.09	
			<i>For Class 56 Rating, Add</i>	3,378.69	
40 05 19 00-1439	EA		30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,884.44	1,434.55
			<i>For Class 52 Rating, Deduct</i>	-1,288.20	
			<i>For Class 54 Rating, Add</i>	1,782.71	
			<i>For Class 55 Rating, Add</i>	2,663.69	
			<i>For Class 56 Rating, Add</i>	3,532.96	
40 05 19 00-1440	EA		30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,411.85	1,437.91
			<i>For Class 52 Rating, Deduct</i>	-1,345.65	
			<i>For Class 54 Rating, Add</i>	1,861.12	
			<i>For Class 55 Rating, Add</i>	2,780.29	
			<i>For Class 56 Rating, Add</i>	3,687.22	
40 05 19 00-1441	EA		30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,939.27	1,441.28
			<i>For Class 52 Rating, Deduct</i>	-1,403.11	
			<i>For Class 54 Rating, Add</i>	1,939.53	
			<i>For Class 55 Rating, Add</i>	2,896.89	
			<i>For Class 56 Rating, Add</i>	3,841.49	
40 05 19 00-1442	EA		30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,466.68	1,444.65
			<i>For Class 52 Rating, Deduct</i>	-1,460.56	
			<i>For Class 54 Rating, Add</i>	2,017.94	
			<i>For Class 55 Rating, Add</i>	3,013.49	
			<i>For Class 56 Rating, Add</i>	3,995.76	
40 05 19 00-1443	EA		30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,994.10	1,448.03
			<i>For Class 52 Rating, Deduct</i>	-1,518.02	
			<i>For Class 54 Rating, Add</i>	2,096.35	
			<i>For Class 55 Rating, Add</i>	3,130.09	
			<i>For Class 56 Rating, Add</i>	4,150.02	
40 05 19 00-1444	EA		30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,521.53	1,451.38
			<i>For Class 52 Rating, Deduct</i>	-1,575.47	
			<i>For Class 54 Rating, Add</i>	2,174.76	
			<i>For Class 55 Rating, Add</i>	3,246.69	
			<i>For Class 56 Rating, Add</i>	4,304.29	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1445 EA 30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,048.94	1,454.75
<i>For Class 52 Rating, Deduct</i>	-1,632.92	
<i>For Class 54 Rating, Add</i>	2,253.17	
<i>For Class 55 Rating, Add</i>	3,363.28	
<i>For Class 56 Rating, Add</i>	4,458.56	
40 05 19 00-1446 EA 30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,576.36	1,458.12
<i>For Class 52 Rating, Deduct</i>	-1,690.38	
<i>For Class 54 Rating, Add</i>	2,331.57	
<i>For Class 55 Rating, Add</i>	3,479.88	
<i>For Class 56 Rating, Add</i>	4,612.83	
40 05 19 00-1447 EA 30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,103.77	1,461.48
<i>For Class 52 Rating, Deduct</i>	-1,747.83	
<i>For Class 54 Rating, Add</i>	2,409.98	
<i>For Class 55 Rating, Add</i>	3,596.48	
<i>For Class 56 Rating, Add</i>	4,767.09	
40 05 19 00-1448 EA 30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,631.20	1,464.85
<i>For Class 52 Rating, Deduct</i>	-1,805.29	
<i>For Class 54 Rating, Add</i>	2,488.39	
<i>For Class 55 Rating, Add</i>	3,713.08	
<i>For Class 56 Rating, Add</i>	4,921.36	
40 05 19 00-1449 EA 30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,158.62	1,468.23
<i>For Class 52 Rating, Deduct</i>	-1,862.74	
<i>For Class 54 Rating, Add</i>	2,566.80	
<i>For Class 55 Rating, Add</i>	3,829.68	
<i>For Class 56 Rating, Add</i>	5,075.63	
40 05 19 00-1450 EA 30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,686.03	1,471.59
<i>For Class 52 Rating, Deduct</i>	-1,920.20	
<i>For Class 54 Rating, Add</i>	2,645.21	
<i>For Class 55 Rating, Add</i>	3,946.28	
<i>For Class 56 Rating, Add</i>	5,229.89	
40 05 19 00-1451 EA 30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,213.45	1,474.96
<i>For Class 52 Rating, Deduct</i>	-1,977.65	
<i>For Class 54 Rating, Add</i>	2,723.62	
<i>For Class 55 Rating, Add</i>	4,062.88	
<i>For Class 56 Rating, Add</i>	5,384.16	
40 05 19 00-1452 EA 30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,740.87	1,478.32
<i>For Class 52 Rating, Deduct</i>	-2,035.11	
<i>For Class 54 Rating, Add</i>	2,802.03	
<i>For Class 55 Rating, Add</i>	4,179.48	
<i>For Class 56 Rating, Add</i>	5,538.43	
40 05 19 00-1453 EA 30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	21,268.29	1,481.70
<i>For Class 52 Rating, Deduct</i>	-2,092.56	
<i>For Class 54 Rating, Add</i>	2,880.43	
<i>For Class 55 Rating, Add</i>	4,296.08	
<i>For Class 56 Rating, Add</i>	5,692.69	
40 05 19 00-1454 EA 30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	21,795.71	1,485.06
<i>For Class 52 Rating, Deduct</i>	-2,150.02	
<i>For Class 54 Rating, Add</i>	2,958.84	
<i>For Class 55 Rating, Add</i>	4,412.68	
<i>For Class 56 Rating, Add</i>	5,846.96	
40 05 19 00-1455 EA 30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	22,323.12	1,488.43
<i>For Class 52 Rating, Deduct</i>	-2,207.47	
<i>For Class 54 Rating, Add</i>	3,037.25	
<i>For Class 55 Rating, Add</i>	4,529.27	
<i>For Class 56 Rating, Add</i>	6,001.23	
40 05 19 00-1456 EA 30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	22,850.54	1,491.79
<i>For Class 52 Rating, Deduct</i>	-2,264.93	
<i>For Class 54 Rating, Add</i>	3,115.66	
<i>For Class 55 Rating, Add</i>	4,645.87	
<i>For Class 56 Rating, Add</i>	6,155.49	
40 05 19 00-1457 EA 30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,377.97	1,495.17
<i>For Class 52 Rating, Deduct</i>	-2,322.38	
<i>For Class 54 Rating, Add</i>	3,194.07	
<i>For Class 55 Rating, Add</i>	4,762.47	
<i>For Class 56 Rating, Add</i>	6,309.76	
40 05 19 00-1458 EA 30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,905.38	1,498.52
<i>For Class 52 Rating, Deduct</i>	-2,379.84	
<i>For Class 54 Rating, Add</i>	3,272.48	
<i>For Class 55 Rating, Add</i>	4,879.07	
<i>For Class 56 Rating, Add</i>	6,464.03	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1459	EA		30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,432.80	1,501.90
			<i>For Class 52 Rating, Deduct</i> .....	-2,437.29	
			<i>For Class 54 Rating, Add</i> .....	3,350.89	
			<i>For Class 55 Rating, Add</i> .....	4,995.67	
			<i>For Class 56 Rating, Add</i> .....	6,618.30	
40 05 19 00-1460	EA		30" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,960.21	1,505.26
			<i>For Class 52 Rating, Deduct</i> .....	-2,494.75	
			<i>For Class 54 Rating, Add</i> .....	3,429.29	
			<i>For Class 55 Rating, Add</i> .....	5,112.27	
			<i>For Class 56 Rating, Add</i> .....	6,772.56	
40 05 19 00-1461	EA		30" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	25,487.63	1,508.64
			<i>For Class 52 Rating, Deduct</i> .....	-2,552.20	
			<i>For Class 54 Rating, Add</i> .....	3,507.70	
			<i>For Class 55 Rating, Add</i> .....	5,228.87	
			<i>For Class 56 Rating, Add</i> .....	6,926.83	
40 05 19 00-1462	EA		30" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,015.06	1,511.99
			<i>For Class 52 Rating, Deduct</i> .....	-2,609.66	
			<i>For Class 54 Rating, Add</i> .....	3,586.11	
			<i>For Class 55 Rating, Add</i> .....	5,345.47	
			<i>For Class 56 Rating, Add</i> .....	7,081.10	
40 05 19 00-1463			<b>36" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1464	EA		36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	8,926.93	1,757.83
			<i>For Class 52 Rating, Deduct</i> .....	-688.99	
			<i>For Class 54 Rating, Add</i> .....	971.49	
			<i>For Class 55 Rating, Add</i> .....	1,460.69	
			<i>For Class 56 Rating, Add</i> .....	1,943.63	
40 05 19 00-1465	EA		36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	9,642.55	1,761.21
			<i>For Class 52 Rating, Deduct</i> .....	-767.15	
			<i>For Class 54 Rating, Add</i> .....	1,078.13	
			<i>For Class 55 Rating, Add</i> .....	1,619.26	
			<i>For Class 56 Rating, Add</i> .....	2,153.42	
40 05 19 00-1466	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	10,358.18	1,764.56
			<i>For Class 52 Rating, Deduct</i> .....	-845.31	
			<i>For Class 54 Rating, Add</i> .....	1,184.77	
			<i>For Class 55 Rating, Add</i> .....	1,777.83	
			<i>For Class 56 Rating, Add</i> .....	2,363.21	
40 05 19 00-1467	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,073.80	1,767.93
			<i>For Class 52 Rating, Deduct</i> .....	-923.46	
			<i>For Class 54 Rating, Add</i> .....	1,291.41	
			<i>For Class 55 Rating, Add</i> .....	1,936.40	
			<i>For Class 56 Rating, Add</i> .....	2,572.99	
40 05 19 00-1468	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	11,789.42	1,771.30
			<i>For Class 52 Rating, Deduct</i> .....	-1,001.62	
			<i>For Class 54 Rating, Add</i> .....	1,398.05	
			<i>For Class 55 Rating, Add</i> .....	2,094.97	
			<i>For Class 56 Rating, Add</i> .....	2,782.78	
40 05 19 00-1469	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	12,505.04	1,774.65
			<i>For Class 52 Rating, Deduct</i> .....	-1,079.78	
			<i>For Class 54 Rating, Add</i> .....	1,504.69	
			<i>For Class 55 Rating, Add</i> .....	2,253.54	
			<i>For Class 56 Rating, Add</i> .....	2,992.57	
40 05 19 00-1470	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,220.67	1,778.03
			<i>For Class 52 Rating, Deduct</i> .....	-1,157.93	
			<i>For Class 54 Rating, Add</i> .....	1,611.33	
			<i>For Class 55 Rating, Add</i> .....	2,412.11	
			<i>For Class 56 Rating, Add</i> .....	3,202.35	
40 05 19 00-1471	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	13,936.29	1,781.41
			<i>For Class 52 Rating, Deduct</i> .....	-1,236.09	
			<i>For Class 54 Rating, Add</i> .....	1,717.97	
			<i>For Class 55 Rating, Add</i> .....	2,570.67	
			<i>For Class 56 Rating, Add</i> .....	3,412.14	
40 05 19 00-1472	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	14,651.91	1,784.77
			<i>For Class 52 Rating, Deduct</i> .....	-1,314.25	
			<i>For Class 54 Rating, Add</i> .....	1,824.61	
			<i>For Class 55 Rating, Add</i> .....	2,729.24	
			<i>For Class 56 Rating, Add</i> .....	3,621.93	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1473 EA 36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	15,367.53	1,788.12
<i>For Class 52 Rating, Deduct</i>	-1,392.41	
<i>For Class 54 Rating, Add</i>	1,931.25	
<i>For Class 55 Rating, Add</i>	2,887.81	
<i>For Class 56 Rating, Add</i>	3,831.72	
40 05 19 00-1474 EA 36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,083.14	1,791.50
<i>For Class 52 Rating, Deduct</i>	-1,470.56	
<i>For Class 54 Rating, Add</i>	2,037.89	
<i>For Class 55 Rating, Add</i>	3,046.38	
<i>For Class 56 Rating, Add</i>	4,041.50	
40 05 19 00-1475 EA 36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	16,798.77	1,794.88
<i>For Class 52 Rating, Deduct</i>	-1,548.72	
<i>For Class 54 Rating, Add</i>	2,144.52	
<i>For Class 55 Rating, Add</i>	3,204.95	
<i>For Class 56 Rating, Add</i>	4,251.29	
40 05 19 00-1476 EA 36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	17,514.39	1,798.23
<i>For Class 52 Rating, Deduct</i>	-1,626.88	
<i>For Class 54 Rating, Add</i>	2,251.16	
<i>For Class 55 Rating, Add</i>	3,363.51	
<i>For Class 56 Rating, Add</i>	4,461.07	
40 05 19 00-1477 EA 36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,230.01	1,801.61
<i>For Class 52 Rating, Deduct</i>	-1,705.03	
<i>For Class 54 Rating, Add</i>	2,357.80	
<i>For Class 55 Rating, Add</i>	3,522.08	
<i>For Class 56 Rating, Add</i>	4,670.86	
40 05 19 00-1478 EA 36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	18,945.63	1,804.97
<i>For Class 52 Rating, Deduct</i>	-1,783.19	
<i>For Class 54 Rating, Add</i>	2,464.44	
<i>For Class 55 Rating, Add</i>	3,680.65	
<i>For Class 56 Rating, Add</i>	4,880.65	
40 05 19 00-1479 EA 36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	19,661.26	1,808.35
<i>For Class 52 Rating, Deduct</i>	-1,861.35	
<i>For Class 54 Rating, Add</i>	2,571.08	
<i>For Class 55 Rating, Add</i>	3,839.22	
<i>For Class 56 Rating, Add</i>	5,090.44	
40 05 19 00-1480 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	20,376.88	1,811.70
<i>For Class 52 Rating, Deduct</i>	-1,939.51	
<i>For Class 54 Rating, Add</i>	2,677.72	
<i>For Class 55 Rating, Add</i>	3,997.79	
<i>For Class 56 Rating, Add</i>	5,300.22	
40 05 19 00-1481 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	21,092.50	1,815.08
<i>For Class 52 Rating, Deduct</i>	-2,017.66	
<i>For Class 54 Rating, Add</i>	2,784.36	
<i>For Class 55 Rating, Add</i>	4,156.36	
<i>For Class 56 Rating, Add</i>	5,510.01	
40 05 19 00-1482 EA 36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	21,808.12	1,818.44
<i>For Class 52 Rating, Deduct</i>	-2,095.82	
<i>For Class 54 Rating, Add</i>	2,891.00	
<i>For Class 55 Rating, Add</i>	4,314.92	
<i>For Class 56 Rating, Add</i>	5,719.80	
40 05 19 00-1483 EA 36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	22,523.74	1,821.82
<i>For Class 52 Rating, Deduct</i>	-2,173.98	
<i>For Class 54 Rating, Add</i>	2,997.64	
<i>For Class 55 Rating, Add</i>	4,473.49	
<i>For Class 56 Rating, Add</i>	5,929.58	
40 05 19 00-1484 EA 36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,239.36	1,825.17
<i>For Class 52 Rating, Deduct</i>	-2,252.13	
<i>For Class 54 Rating, Add</i>	3,104.28	
<i>For Class 55 Rating, Add</i>	4,632.06	
<i>For Class 56 Rating, Add</i>	6,139.37	
40 05 19 00-1485 EA 36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	23,954.98	1,828.55
<i>For Class 52 Rating, Deduct</i>	-2,330.29	
<i>For Class 54 Rating, Add</i>	3,210.92	
<i>For Class 55 Rating, Add</i>	4,790.63	
<i>For Class 56 Rating, Add</i>	6,349.15	
40 05 19 00-1486 EA 36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	24,670.60	1,831.92
<i>For Class 52 Rating, Deduct</i>	-2,408.45	
<i>For Class 54 Rating, Add</i>	3,317.55	
<i>For Class 55 Rating, Add</i>	4,949.20	
<i>For Class 56 Rating, Add</i>	6,558.94	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1487	EA	36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	25,386.22	1,835.28
		<i>For Class 52 Rating, Deduct</i> .....	-2,486.61	
		<i>For Class 54 Rating, Add</i> .....	3,424.19	
		<i>For Class 55 Rating, Add</i> .....	5,107.76	
		<i>For Class 56 Rating, Add</i> .....	6,768.73	
40 05 19 00-1488	EA	36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,101.84	1,838.64
		<i>For Class 52 Rating, Deduct</i> .....	-2,564.76	
		<i>For Class 54 Rating, Add</i> .....	3,530.83	
		<i>For Class 55 Rating, Add</i> .....	5,266.33	
		<i>For Class 56 Rating, Add</i> .....	6,978.52	
40 05 19 00-1489	EA	36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	26,817.47	1,842.02
		<i>For Class 52 Rating, Deduct</i> .....	-2,642.92	
		<i>For Class 54 Rating, Add</i> .....	3,637.47	
		<i>For Class 55 Rating, Add</i> .....	5,424.90	
		<i>For Class 56 Rating, Add</i> .....	7,188.30	
40 05 19 00-1490	EA	36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	27,533.09	1,845.39
		<i>For Class 52 Rating, Deduct</i> .....	-2,721.08	
		<i>For Class 54 Rating, Add</i> .....	3,744.11	
		<i>For Class 55 Rating, Add</i> .....	5,583.47	
		<i>For Class 56 Rating, Add</i> .....	7,398.09	
40 05 19 00-1491	EA	36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,248.71	1,848.75
		<i>For Class 52 Rating, Deduct</i> .....	-2,799.23	
		<i>For Class 54 Rating, Add</i> .....	3,850.75	
		<i>For Class 55 Rating, Add</i> .....	5,742.04	
		<i>For Class 56 Rating, Add</i> .....	7,607.88	
40 05 19 00-1492	EA	36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	28,964.33	1,852.12
		<i>For Class 52 Rating, Deduct</i> .....	-2,877.39	
		<i>For Class 54 Rating, Add</i> .....	3,957.39	
		<i>For Class 55 Rating, Add</i> .....	5,900.61	
		<i>For Class 56 Rating, Add</i> .....	7,817.66	
40 05 19 00-1493	EA	36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	29,679.96	1,855.49
		<i>For Class 52 Rating, Deduct</i> .....	-2,955.55	
		<i>For Class 54 Rating, Add</i> .....	4,064.03	
		<i>For Class 55 Rating, Add</i> .....	6,059.17	
		<i>For Class 56 Rating, Add</i> .....	8,027.45	
40 05 19 00-1494	EA	36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	30,395.58	1,858.85
		<i>For Class 52 Rating, Deduct</i> .....	-3,033.70	
		<i>For Class 54 Rating, Add</i> .....	4,170.67	
		<i>For Class 55 Rating, Add</i> .....	6,217.74	
		<i>For Class 56 Rating, Add</i> .....	8,237.24	
40 05 19 00-1495	EA	36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	31,111.20	1,862.22
		<i>For Class 52 Rating, Deduct</i> .....	-3,111.86	
		<i>For Class 54 Rating, Add</i> .....	4,277.31	
		<i>For Class 55 Rating, Add</i> .....	6,376.31	
		<i>For Class 56 Rating, Add</i> .....	8,447.02	
40 05 19 00-1496	EA	36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	31,826.82	1,865.59
		<i>For Class 52 Rating, Deduct</i> .....	-3,190.02	
		<i>For Class 54 Rating, Add</i> .....	4,383.95	
		<i>For Class 55 Rating, Add</i> .....	6,534.88	
		<i>For Class 56 Rating, Add</i> .....	8,666.81	
40 05 19 00-1497	EA	36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	32,542.44	1,868.96
		<i>For Class 52 Rating, Deduct</i> .....	-3,268.18	
		<i>For Class 54 Rating, Add</i> .....	4,490.58	
		<i>For Class 55 Rating, Add</i> .....	6,693.45	
		<i>For Class 56 Rating, Add</i> .....	8,866.60	
40 05 19 00-1498	EA	36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	33,258.07	1,872.32
		<i>For Class 52 Rating, Deduct</i> .....	-3,346.33	
		<i>For Class 54 Rating, Add</i> .....	4,597.22	
		<i>For Class 55 Rating, Add</i> .....	6,852.01	
		<i>For Class 56 Rating, Add</i> .....	9,076.38	
40 05 19 00-1499	EA	36" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	33,973.69	1,875.69
		<i>For Class 52 Rating, Deduct</i> .....	-3,424.49	
		<i>For Class 54 Rating, Add</i> .....	4,703.86	
		<i>For Class 55 Rating, Add</i> .....	7,010.58	
		<i>For Class 56 Rating, Add</i> .....	9,286.17	
40 05 19 00-1500	EA	36" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	34,689.31	1,879.06
		<i>For Class 52 Rating, Deduct</i> .....	-3,502.65	
		<i>For Class 54 Rating, Add</i> .....	4,810.50	
		<i>For Class 55 Rating, Add</i> .....	7,169.15	
		<i>For Class 56 Rating, Add</i> .....	9,495.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1501 EA 36" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,404.93	1,882.42
For Class 52 Rating, Deduct	-3,580.80	
For Class 54 Rating, Add	4,917.14	
For Class 55 Rating, Add	7,327.72	
For Class 56 Rating, Add	9,705.74	
<b>40 05 19 00-1502 42" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1503 EA 42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	11,754.53	2,215.81
For Class 52 Rating, Deduct	-923.70	
For Class 54 Rating, Add	1,299.87	
For Class 55 Rating, Add	1,953.16	
For Class 56 Rating, Add	2,598.05	
40 05 19 00-1504 EA 42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	12,821.17	2,219.17
For Class 52 Rating, Deduct	-1,040.47	
For Class 54 Rating, Add	1,459.17	
For Class 55 Rating, Add	2,190.01	
For Class 56 Rating, Add	2,911.39	
40 05 19 00-1505 EA 42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	13,875.14	2,222.53
For Class 52 Rating, Deduct	-1,155.84	
For Class 54 Rating, Add	1,616.56	
For Class 55 Rating, Add	2,424.03	
For Class 56 Rating, Add	3,220.99	
40 05 19 00-1506 EA 42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	14,939.67	2,225.91
For Class 52 Rating, Deduct	-1,272.38	
For Class 54 Rating, Add	1,775.53	
For Class 55 Rating, Add	2,660.40	
For Class 56 Rating, Add	3,533.70	
40 05 19 00-1507 EA 42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,993.63	2,229.28
For Class 52 Rating, Deduct	-1,387.75	
For Class 54 Rating, Add	1,932.92	
For Class 55 Rating, Add	2,894.42	
For Class 56 Rating, Add	3,843.30	
40 05 19 00-1508 EA 42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	17,060.29	2,232.64
For Class 52 Rating, Deduct	-1,504.52	
For Class 54 Rating, Add	2,092.22	
For Class 55 Rating, Add	3,131.27	
For Class 56 Rating, Add	4,156.64	
40 05 19 00-1509 EA 42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,112.14	2,236.01
For Class 52 Rating, Deduct	-1,619.67	
For Class 54 Rating, Add	2,249.29	
For Class 55 Rating, Add	3,364.82	
For Class 56 Rating, Add	4,465.62	
40 05 19 00-1510 EA 42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,178.79	2,239.38
For Class 52 Rating, Deduct	-1,736.44	
For Class 54 Rating, Add	2,408.58	
For Class 55 Rating, Add	3,601.66	
For Class 56 Rating, Add	4,778.96	
40 05 19 00-1511 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	20,232.75	2,242.75
For Class 52 Rating, Deduct	-1,851.81	
For Class 54 Rating, Add	2,565.97	
For Class 55 Rating, Add	3,835.68	
For Class 56 Rating, Add	5,088.55	
40 05 19 00-1512 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,297.28	2,246.11
For Class 52 Rating, Deduct	-1,968.35	
For Class 54 Rating, Add	2,724.95	
For Class 55 Rating, Add	4,072.06	
For Class 56 Rating, Add	5,401.27	
40 05 19 00-1513 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,351.26	2,249.48
For Class 52 Rating, Deduct	-2,083.72	
For Class 54 Rating, Add	2,882.34	
For Class 55 Rating, Add	4,306.08	
For Class 56 Rating, Add	5,710.87	
40 05 19 00-1514 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	23,415.79	2,252.85
For Class 52 Rating, Deduct	-2,200.26	
For Class 54 Rating, Add	3,041.32	
For Class 55 Rating, Add	4,542.45	
For Class 56 Rating, Add	6,023.58	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1515	EA		42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,469.75	2,256.21
			<i>For Class 52 Rating, Deduct</i>	-2,315.64	
			<i>For Class 54 Rating, Add</i>	3,198.71	
			<i>For Class 55 Rating, Add</i>	4,776.47	
			<i>For Class 56 Rating, Add</i>	6,333.18	
40 05 19 00-1516	EA		42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	25,525.83	2,259.58
			<i>For Class 52 Rating, Deduct</i>	-2,431.24	
			<i>For Class 54 Rating, Add</i>	3,356.42	
			<i>For Class 55 Rating, Add</i>	5,010.96	
			<i>For Class 56 Rating, Add</i>	6,643.40	
40 05 19 00-1517	EA		42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,588.26	2,262.95
			<i>For Class 52 Rating, Deduct</i>	-2,547.55	
			<i>For Class 54 Rating, Add</i>	3,515.08	
			<i>For Class 55 Rating, Add</i>	5,246.87	
			<i>For Class 56 Rating, Add</i>	6,955.50	
40 05 19 00-1518	EA		42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,642.22	2,266.33
			<i>For Class 52 Rating, Deduct</i>	-2,662.92	
			<i>For Class 54 Rating, Add</i>	3,672.47	
			<i>For Class 55 Rating, Add</i>	5,480.88	
			<i>For Class 56 Rating, Add</i>	7,265.10	
40 05 19 00-1519	EA		42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	28,708.87	2,269.68
			<i>For Class 52 Rating, Deduct</i>	-2,779.69	
			<i>For Class 54 Rating, Add</i>	3,831.76	
			<i>For Class 55 Rating, Add</i>	5,717.73	
			<i>For Class 56 Rating, Add</i>	7,578.44	
40 05 19 00-1520	EA		42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,762.83	2,273.05
			<i>For Class 52 Rating, Deduct</i>	-2,895.07	
			<i>For Class 54 Rating, Add</i>	3,989.15	
			<i>For Class 55 Rating, Add</i>	5,951.75	
			<i>For Class 56 Rating, Add</i>	7,888.03	
40 05 19 00-1521	EA		42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,827.36	2,276.42
			<i>For Class 52 Rating, Deduct</i>	-3,011.61	
			<i>For Class 54 Rating, Add</i>	4,148.13	
			<i>For Class 55 Rating, Add</i>	6,188.13	
			<i>For Class 56 Rating, Add</i>	8,200.75	
40 05 19 00-1522	EA		42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	31,881.34	2,279.78
			<i>For Class 52 Rating, Deduct</i>	-3,126.98	
			<i>For Class 54 Rating, Add</i>	4,305.52	
			<i>For Class 55 Rating, Add</i>	6,422.15	
			<i>For Class 56 Rating, Add</i>	8,510.35	
40 05 19 00-1523	EA		42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,947.98	2,283.15
			<i>For Class 52 Rating, Deduct</i>	-3,243.75	
			<i>For Class 54 Rating, Add</i>	4,464.81	
			<i>For Class 55 Rating, Add</i>	6,658.99	
			<i>For Class 56 Rating, Add</i>	8,823.69	
40 05 19 00-1524	EA		42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	34,001.95	2,286.53
			<i>For Class 52 Rating, Deduct</i>	-3,359.13	
			<i>For Class 54 Rating, Add</i>	4,622.20	
			<i>For Class 55 Rating, Add</i>	6,893.01	
			<i>For Class 56 Rating, Add</i>	9,133.29	
40 05 19 00-1525	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,066.48	2,289.89
			<i>For Class 52 Rating, Deduct</i>	-3,475.66	
			<i>For Class 54 Rating, Add</i>	4,781.18	
			<i>For Class 55 Rating, Add</i>	7,129.39	
			<i>For Class 56 Rating, Add</i>	9,446.00	
40 05 19 00-1526	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,120.44	2,293.25
			<i>For Class 52 Rating, Deduct</i>	-3,591.04	
			<i>For Class 54 Rating, Add</i>	4,938.57	
			<i>For Class 55 Rating, Add</i>	7,363.41	
			<i>For Class 56 Rating, Add</i>	9,755.60	
40 05 19 00-1527	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	37,187.10	2,296.62
			<i>For Class 52 Rating, Deduct</i>	-3,707.81	
			<i>For Class 54 Rating, Add</i>	5,097.86	
			<i>For Class 55 Rating, Add</i>	7,600.26	
			<i>For Class 56 Rating, Add</i>	10,068.94	
40 05 19 00-1528	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,241.06	2,300.00
			<i>For Class 52 Rating, Deduct</i>	-3,823.18	
			<i>For Class 54 Rating, Add</i>	5,255.25	
			<i>For Class 55 Rating, Add</i>	7,834.27	
			<i>For Class 56 Rating, Add</i>	10,378.54	



<b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>
<b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span>
Ductile Iron Process Pipe 40 05 19 <span style="float: right;"><b>40</b></span>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1529 EA 42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,303.48	2,303.35
For Class 52 Rating, Deduct	-3,939.49	
For Class 54 Rating, Add	5,413.91	
For Class 55 Rating, Add	8,070.18	
For Class 56 Rating, Add	10,690.63	
40 05 19 00-1530 EA 42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	40,359.56	2,306.73
For Class 52 Rating, Deduct	-4,055.10	
For Class 54 Rating, Add	5,571.62	
For Class 55 Rating, Add	8,304.67	
For Class 56 Rating, Add	11,000.85	
40 05 19 00-1531 EA 42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,202.07	2,310.09
For Class 52 Rating, Deduct	-4,147.21	
For Class 54 Rating, Add	5,697.29	
For Class 55 Rating, Add	8,491.53	
For Class 56 Rating, Add	11,248.07	
40 05 19 00-1532 EA 42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	42,478.07	2,313.47
For Class 52 Rating, Deduct	-4,287.01	
For Class 54 Rating, Add	5,887.99	
For Class 55 Rating, Add	8,775.06	
For Class 56 Rating, Add	11,623.17	
40 05 19 00-1533 EA 42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,532.03	2,316.82
For Class 52 Rating, Deduct	-4,402.38	
For Class 54 Rating, Add	6,045.38	
For Class 55 Rating, Add	9,009.08	
For Class 56 Rating, Add	11,932.77	
40 05 19 00-1534 EA 42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,596.56	2,320.20
For Class 52 Rating, Deduct	-4,518.92	
For Class 54 Rating, Add	6,204.35	
For Class 55 Rating, Add	9,245.46	
For Class 56 Rating, Add	12,245.48	
40 05 19 00-1535 EA 42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	45,650.52	2,323.56
For Class 52 Rating, Deduct	-4,634.30	
For Class 54 Rating, Add	6,361.74	
For Class 55 Rating, Add	9,479.48	
For Class 56 Rating, Add	12,555.08	
40 05 19 00-1536 EA 42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,717.18	2,326.94
For Class 52 Rating, Deduct	-4,751.07	
For Class 54 Rating, Add	6,521.04	
For Class 55 Rating, Add	9,716.32	
For Class 56 Rating, Add	12,868.42	
40 05 19 00-1537 EA 42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,769.03	2,330.29
For Class 52 Rating, Deduct	-4,866.21	
For Class 54 Rating, Add	6,678.11	
For Class 55 Rating, Add	9,949.87	
For Class 56 Rating, Add	13,177.40	
40 05 19 00-1538 EA 42" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	48,835.68	2,333.67
For Class 52 Rating, Deduct	-4,982.98	
For Class 54 Rating, Add	6,837.40	
For Class 55 Rating, Add	10,186.72	
For Class 56 Rating, Add	13,490.74	
40 05 19 00-1539 EA 42" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,889.64	2,337.04
For Class 52 Rating, Deduct	-5,098.35	
For Class 54 Rating, Add	6,994.79	
For Class 55 Rating, Add	10,420.74	
For Class 56 Rating, Add	13,800.34	
40 05 19 00-1540 EA 42" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,954.17	2,340.40
For Class 52 Rating, Deduct	-5,214.89	
For Class 54 Rating, Add	7,153.77	
For Class 55 Rating, Add	10,657.11	
For Class 56 Rating, Add	14,113.05	
<b>40 05 19 00-1541 48" Flanged End x Plain End (FxPE), Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-1028)</small>		
40 05 19 00-1542 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	15,139.56	2,784.90
For Class 52 Rating, Deduct	-1,201.20	
For Class 54 Rating, Add	1,688.63	
For Class 55 Rating, Add	2,536.43	
For Class 56 Rating, Add	3,373.30	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1543	EA		48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	16,690.46	2,788.28
			<i>For Class 52 Rating, Deduct</i>	-1,371.24	
			<i>For Class 54 Rating, Add</i>	1,920.57	
			<i>For Class 55 Rating, Add</i>	2,881.27	
			<i>For Class 56 Rating, Add</i>	3,829.50	
40 05 19 00-1544	EA		48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	18,239.25	2,791.65
			<i>For Class 52 Rating, Deduct</i>	-1,541.04	
			<i>For Class 54 Rating, Add</i>	2,152.18	
			<i>For Class 55 Rating, Add</i>	3,225.63	
			<i>For Class 56 Rating, Add</i>	4,285.07	
40 05 19 00-1545	EA		48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	19,800.73	2,795.02
			<i>For Class 52 Rating, Deduct</i>	-1,712.24	
			<i>For Class 54 Rating, Add</i>	2,385.70	
			<i>For Class 55 Rating, Add</i>	3,572.82	
			<i>For Class 56 Rating, Add</i>	4,744.38	
40 05 19 00-1546	EA		48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	21,351.64	2,798.37
			<i>For Class 52 Rating, Deduct</i>	-1,882.28	
			<i>For Class 54 Rating, Add</i>	2,617.63	
			<i>For Class 55 Rating, Add</i>	3,917.66	
			<i>For Class 56 Rating, Add</i>	5,200.58	
40 05 19 00-1547	EA		48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	22,902.54	2,801.75
			<i>For Class 52 Rating, Deduct</i>	-2,052.32	
			<i>For Class 54 Rating, Add</i>	2,849.56	
			<i>For Class 55 Rating, Add</i>	4,262.50	
			<i>For Class 56 Rating, Add</i>	5,656.78	
40 05 19 00-1548	EA		48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	24,461.90	2,805.12
			<i>For Class 52 Rating, Deduct</i>	-2,223.29	
			<i>For Class 54 Rating, Add</i>	3,082.76	
			<i>For Class 55 Rating, Add</i>	4,609.22	
			<i>For Class 56 Rating, Add</i>	6,115.47	
40 05 19 00-1549	EA		48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	26,014.92	2,808.48
			<i>For Class 52 Rating, Deduct</i>	-2,393.56	
			<i>For Class 54 Rating, Add</i>	3,315.01	
			<i>For Class 55 Rating, Add</i>	4,954.53	
			<i>For Class 56 Rating, Add</i>	6,572.29	
40 05 19 00-1550	EA		48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	27,563.71	2,811.85
			<i>For Class 52 Rating, Deduct</i>	-2,563.37	
			<i>For Class 54 Rating, Add</i>	3,546.62	
			<i>For Class 55 Rating, Add</i>	5,298.89	
			<i>For Class 56 Rating, Add</i>	7,027.86	
40 05 19 00-1551	EA		48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	29,125.19	2,815.22
			<i>For Class 52 Rating, Deduct</i>	-2,734.57	
			<i>For Class 54 Rating, Add</i>	3,780.14	
			<i>For Class 55 Rating, Add</i>	5,646.09	
			<i>For Class 56 Rating, Add</i>	7,487.17	
40 05 19 00-1552	EA		48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	30,676.09	2,818.59
			<i>For Class 52 Rating, Deduct</i>	-2,904.61	
			<i>For Class 54 Rating, Add</i>	4,012.07	
			<i>For Class 55 Rating, Add</i>	5,990.92	
			<i>For Class 56 Rating, Add</i>	7,943.37	
40 05 19 00-1553	EA		48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	32,237.56	2,821.95
			<i>For Class 52 Rating, Deduct</i>	-3,075.81	
			<i>For Class 54 Rating, Add</i>	4,245.59	
			<i>For Class 55 Rating, Add</i>	6,338.12	
			<i>For Class 56 Rating, Add</i>	8,402.68	
40 05 19 00-1554	EA		48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	33,786.35	2,825.32
			<i>For Class 52 Rating, Deduct</i>	-3,245.61	
			<i>For Class 54 Rating, Add</i>	4,477.20	
			<i>For Class 55 Rating, Add</i>	6,682.48	
			<i>For Class 56 Rating, Add</i>	8,858.25	
40 05 19 00-1555	EA		48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	35,337.26	2,828.69
			<i>For Class 52 Rating, Deduct</i>	-3,415.65	
			<i>For Class 54 Rating, Add</i>	4,709.14	
			<i>For Class 55 Rating, Add</i>	7,027.32	
			<i>For Class 56 Rating, Add</i>	9,314.45	
40 05 19 00-1556	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	36,898.74	2,832.06
			<i>For Class 52 Rating, Deduct</i>	-3,586.85	
			<i>For Class 54 Rating, Add</i>	4,942.65	
			<i>For Class 55 Rating, Add</i>	7,374.51	
			<i>For Class 56 Rating, Add</i>	9,773.76	





<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1557 EA 48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	38,449.64	2,835.42
For Class 52 Rating, Deduct	-3,756.89	
For Class 54 Rating, Add	5,174.59	
For Class 55 Rating, Add	7,719.35	
For Class 56 Rating, Add	10,229.96	
40 05 19 00-1558 EA 48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	39,998.43	2,838.79
For Class 52 Rating, Deduct	-3,926.70	
For Class 54 Rating, Add	5,406.20	
For Class 55 Rating, Add	8,063.71	
For Class 56 Rating, Add	10,685.53	
40 05 19 00-1559 EA 48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	41,559.91	2,842.17
For Class 52 Rating, Deduct	-4,097.90	
For Class 54 Rating, Add	5,639.72	
For Class 55 Rating, Add	8,410.91	
For Class 56 Rating, Add	11,144.84	
40 05 19 00-1560 EA 48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	43,110.81	2,845.52
For Class 52 Rating, Deduct	-4,267.94	
For Class 54 Rating, Add	5,871.65	
For Class 55 Rating, Add	8,755.74	
For Class 56 Rating, Add	11,601.04	
40 05 19 00-1561 EA 48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	44,659.60	2,848.89
For Class 52 Rating, Deduct	-4,437.74	
For Class 54 Rating, Add	6,103.26	
For Class 55 Rating, Add	9,100.11	
For Class 56 Rating, Add	12,056.61	
40 05 19 00-1562 EA 48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	46,221.08	2,852.26
For Class 52 Rating, Deduct	-4,608.94	
For Class 54 Rating, Add	6,336.78	
For Class 55 Rating, Add	9,447.30	
For Class 56 Rating, Add	12,515.92	
40 05 19 00-1563 EA 48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	47,774.09	2,855.64
For Class 52 Rating, Deduct	-4,779.21	
For Class 54 Rating, Add	6,569.03	
For Class 55 Rating, Add	9,792.61	
For Class 56 Rating, Add	12,972.74	
40 05 19 00-1564 EA 48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	49,322.89	2,858.99
For Class 52 Rating, Deduct	-4,949.02	
For Class 54 Rating, Add	6,800.64	
For Class 55 Rating, Add	10,136.97	
For Class 56 Rating, Add	13,428.31	
40 05 19 00-1565 EA 48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	50,884.37	2,862.37
For Class 52 Rating, Deduct	-5,120.22	
For Class 54 Rating, Add	7,034.16	
For Class 55 Rating, Add	10,484.17	
For Class 56 Rating, Add	13,887.63	
40 05 19 00-1566 EA 48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	52,435.27	2,865.73
For Class 52 Rating, Deduct	-5,290.26	
For Class 54 Rating, Add	7,266.09	
For Class 55 Rating, Add	10,829.01	
For Class 56 Rating, Add	14,343.82	
40 05 19 00-1567 EA 48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	53,984.05	2,869.09
For Class 52 Rating, Deduct	-5,460.06	
For Class 54 Rating, Add	7,497.71	
For Class 55 Rating, Add	11,173.37	
For Class 56 Rating, Add	14,799.39	
40 05 19 00-1568 EA 48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	55,545.53	2,872.46
For Class 52 Rating, Deduct	-5,631.27	
For Class 54 Rating, Add	7,731.22	
For Class 55 Rating, Add	11,520.56	
For Class 56 Rating, Add	15,258.71	
40 05 19 00-1569 EA 48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	57,096.45	2,875.84
For Class 52 Rating, Deduct	-5,801.30	
For Class 54 Rating, Add	7,963.16	
For Class 55 Rating, Add	11,865.40	
For Class 56 Rating, Add	15,714.90	
40 05 19 00-1570 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe	58,457.04	2,879.20
For Class 52 Rating, Deduct	-5,950.41	
For Class 54 Rating, Add	8,166.54	
For Class 55 Rating, Add	12,167.80	
For Class 56 Rating, Add	16,114.96	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1571	EA		48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	60,208.83	2,882.57
			<i>For Class 52 Rating, Deduct</i> .....	-6,142.54	
			<i>For Class 54 Rating, Add</i> .....	8,428.61	
			<i>For Class 55 Rating, Add</i> .....	12,557.43	
			<i>For Class 56 Rating, Add</i> .....	16,630.41	
40 05 19 00-1572	EA		48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	61,757.62	2,885.93
			<i>For Class 52 Rating, Deduct</i> .....	-6,312.35	
			<i>For Class 54 Rating, Add</i> .....	8,660.22	
			<i>For Class 55 Rating, Add</i> .....	12,901.80	
			<i>For Class 56 Rating, Add</i> .....	17,085.99	
40 05 19 00-1573	EA		48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	63,321.22	2,889.31
			<i>For Class 52 Rating, Deduct</i> .....	-6,483.78	
			<i>For Class 54 Rating, Add</i> .....	8,894.05	
			<i>For Class 55 Rating, Add</i> .....	13,249.46	
			<i>For Class 56 Rating, Add</i> .....	17,545.93	
40 05 19 00-1574	EA		48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	64,870.00	2,892.66
			<i>For Class 52 Rating, Deduct</i> .....	-6,653.59	
			<i>For Class 54 Rating, Add</i> .....	9,125.67	
			<i>For Class 55 Rating, Add</i> .....	13,593.82	
			<i>For Class 56 Rating, Add</i> .....	18,001.49	
40 05 19 00-1575	EA		48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	66,418.79	2,896.04
			<i>For Class 52 Rating, Deduct</i> .....	-6,823.39	
			<i>For Class 54 Rating, Add</i> .....	9,357.28	
			<i>For Class 55 Rating, Add</i> .....	13,938.19	
			<i>For Class 56 Rating, Add</i> .....	18,457.07	
40 05 19 00-1576	EA		48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	67,982.38	2,899.40
			<i>For Class 52 Rating, Deduct</i> .....	-6,994.83	
			<i>For Class 54 Rating, Add</i> .....	9,591.12	
			<i>For Class 55 Rating, Add</i> .....	14,285.86	
			<i>For Class 56 Rating, Add</i> .....	18,917.00	
40 05 19 00-1577	EA		48" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	69,531.17	2,902.78
			<i>For Class 52 Rating, Deduct</i> .....	-7,164.63	
			<i>For Class 54 Rating, Add</i> .....	9,822.73	
			<i>For Class 55 Rating, Add</i> .....	14,630.22	
			<i>For Class 56 Rating, Add</i> .....	19,372.58	
40 05 19 00-1578	EA		48" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	71,082.08	2,906.13
			<i>For Class 52 Rating, Deduct</i> .....	-7,334.67	
			<i>For Class 54 Rating, Add</i> .....	10,054.66	
			<i>For Class 55 Rating, Add</i> .....	14,975.06	
			<i>For Class 56 Rating, Add</i> .....	19,828.77	
40 05 19 00-1579	EA		48" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Cement Lined, Bituminous Seal Coat, Ductile Iron Pipe .....	72,643.55	2,909.51
			<i>For Class 52 Rating, Deduct</i> .....	-7,505.87	
			<i>For Class 54 Rating, Add</i> .....	10,288.18	
			<i>For Class 55 Rating, Add</i> .....	15,322.25	
			<i>For Class 56 Rating, Add</i> .....	20,288.08	

**40 05 19 00-1580 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree****Elbows (40 05 19 00-0001)**

40 05 19 00-1581	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	463.08	162.47
40 05 19 00-1582	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	650.46	207.76
40 05 19 00-1583	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	909.15	235.33
40 05 19 00-1584	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	1,329.22	298.34
40 05 19 00-1585	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	1,644.46	330.84
40 05 19 00-1586	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	2,048.73	359.39
40 05 19 00-1587	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	2,523.88	443.09
40 05 19 00-1588	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	3,310.50	531.71
40 05 19 00-1589	EA		20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	4,078.28	669.56
40 05 19 00-1590	EA		24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	6,199.67	758.17
40 05 19 00-1591	EA		30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	10,421.79	1,004.34
40 05 19 00-1592	EA		36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	14,768.43	1,137.26
40 05 19 00-1593	EA		42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	24,723.76	1,299.73
40 05 19 00-1594	EA		48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow .....	32,917.11	1,595.12

**40 05 19 00-1595 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree****Elbows (40 05 19 00-0001)**

40 05 19 00-1596	EA		4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	439.33	162.47
40 05 19 00-1597	EA		6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	612.46	207.76
40 05 19 00-1598	EA		8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	812.57	235.33
40 05 19 00-1599	EA		10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	1,189.89	298.34
40 05 19 00-1600	EA		12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	1,467.12	330.84
40 05 19 00-1601	EA		14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	1,687.73	359.39
40 05 19 00-1602	EA		16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	2,124.87	443.09
40 05 19 00-1603	EA		18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	2,773.74	531.71



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1604	EA			20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	3,589.02	669.56
40 05 19 00-1605	EA			24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	4,723.98	758.17
40 05 19 00-1606	EA			30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	9,341.94	1,004.34
40 05 19 00-1607	EA			36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	13,979.92	1,137.26
40 05 19 00-1608	EA			42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	21,333.78	1,299.73
40 05 19 00-1609	EA			48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 45 Degree Elbow .....	29,082.22	1,595.12
<b>40 05 19 00-1610</b>				<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows</b> <small>(40 05 19 00-0001)</small>		
40 05 19 00-1611	EA			4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	437.75	162.47
40 05 19 00-1612	EA			6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	599.79	207.76
40 05 19 00-1613	EA			8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	801.48	235.33
40 05 19 00-1614	EA			10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	1,158.22	298.34
40 05 19 00-1615	EA			12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	1,536.79	330.84
40 05 19 00-1616	EA			14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	1,907.81	359.39
40 05 19 00-1617	EA			16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	2,173.96	443.09
40 05 19 00-1618	EA			18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	2,833.90	531.71
40 05 19 00-1619	EA			20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	3,850.28	669.56
40 05 19 00-1620	EA			24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	5,319.32	758.17
40 05 19 00-1621	EA			30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	9,448.02	1,004.34
40 05 19 00-1622	EA			36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	14,223.76	1,137.26
40 05 19 00-1623	EA			42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	21,819.87	1,299.73
40 05 19 00-1624	EA			48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	29,715.56	1,595.12
<b>40 05 19 00-1625</b>				<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbows</b> <small>(40 05 19 00-0001)</small>		
40 05 19 00-1626	EA			4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	477.33	162.47
40 05 19 00-1627	EA			6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	674.21	207.76
40 05 19 00-1628	EA			8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	833.15	235.33
40 05 19 00-1629	EA			10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	1,270.64	298.34
40 05 19 00-1630	EA			12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	1,744.21	330.84
40 05 19 00-1631	EA			14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	1,961.65	359.39
40 05 19 00-1632	EA			16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	2,398.80	443.09
40 05 19 00-1633	EA			18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	2,833.90	531.71
40 05 19 00-1634	EA			20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	3,850.28	669.56
40 05 19 00-1635	EA			24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	5,533.07	758.17
40 05 19 00-1636	EA			30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	9,554.11	1,004.34
40 05 19 00-1637	EA			36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	14,328.26	1,137.26
40 05 19 00-1638	EA			42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	21,930.71	1,299.73
40 05 19 00-1639	EA			48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	29,938.81	1,595.12
<b>40 05 19 00-1640</b>				<b>Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbows</b> <small>(40 05 19 00-0001)</small>		
40 05 19 00-1641	EA			6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	614.56	185.12
40 05 19 00-1642	EA			8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	757.37	198.90
40 05 19 00-1643	EA			8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	853.43	221.55
40 05 19 00-1644	EA			10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,137.61	230.41
40 05 19 00-1645	EA			10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,202.02	253.05
40 05 19 00-1646	EA			10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,313.15	266.84
40 05 19 00-1647	EA			12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,223.15	247.15
40 05 19 00-1648	EA			12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,377.80	269.80
40 05 19 00-1649	EA			12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,582.36	283.58
40 05 19 00-1650	EA			12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,687.09	315.09
40 05 19 00-1651	EA			14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,582.36	283.58
40 05 19 00-1652	EA			14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,752.07	297.36
40 05 19 00-1653	EA			14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,951.81	328.87
40 05 19 00-1654	EA			14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,159.26	345.61
40 05 19 00-1655	EA			16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,824.68	325.43
40 05 19 00-1656	EA			16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,967.47	339.21
40 05 19 00-1657	EA			16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,257.48	370.72
40 05 19 00-1658	EA			16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,462.59	386.96
40 05 19 00-1659	EA			16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,636.23	401.24
40 05 19 00-1660	EA			18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,134.06	369.73
40 05 19 00-1661	EA			18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,549.21	383.52
40 05 19 00-1662	EA			18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,627.03	415.03
40 05 19 00-1663	EA			18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,773.57	431.27
40 05 19 00-1664	EA			18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,007.37	445.55
40 05 19 00-1665	EA			18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,279.77	487.40
40 05 19 00-1666	EA			20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,751.50	438.66
40 05 19 00-1667	EA			20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,935.47	452.44
40 05 19 00-1668	EA			20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,633.98	483.96
40 05 19 00-1669	EA			20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,771.01	500.20
40 05 19 00-1670	EA			20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,156.82	514.48
40 05 19 00-1671	EA			20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,069.81	556.32
40 05 19 00-1672	EA			20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,333.27	600.63
40 05 19 00-1673	EA			24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,860.49	482.97
40 05 19 00-1674	EA			24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,046.04	496.75

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

40 05 19 00-1675	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,353.46	528.26
40 05 19 00-1676	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,574.42	544.51
40 05 19 00-1677	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	4,987.14	558.78
40 05 19 00-1678	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,375.13	600.63
40 05 19 00-1679	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,507.17	644.94
40 05 19 00-1680	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	5,789.28	637.81
40 05 19 00-1681	EA	30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	6,876.27	667.59
40 05 19 00-1682	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	7,317.49	681.86
40 05 19 00-1683	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	8,245.40	723.71
40 05 19 00-1684	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,579.23	768.03
40 05 19 00-1685	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,072.27	836.95
40 05 19 00-1686	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	11,693.58	881.25
40 05 19 00-1687	EA	36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,458.09	734.05
40 05 19 00-1688	EA	36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,234.77	748.33
40 05 19 00-1689	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	9,962.72	790.17
40 05 19 00-1690	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,993.50	834.49
40 05 19 00-1691	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	12,438.07	903.41
40 05 19 00-1692	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	13,558.14	947.72
40 05 19 00-1693	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,469.81	1,070.80
40 05 19 00-1694	EA	42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,696.26	829.56
40 05 19 00-1695	EA	42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	14,094.87	871.41
40 05 19 00-1696	EA	42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,964.33	915.72
40 05 19 00-1697	EA	42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	18,668.17	984.65
40 05 19 00-1698	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	16,308.02	1,028.95
40 05 19 00-1699	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	19,211.54	1,152.04
40 05 19 00-1700	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	27,096.05	1,218.50
40 05 19 00-1701	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	25,935.02	1,188.96
40 05 19 00-1702	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	28,206.80	1,312.04
40 05 19 00-1703	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	29,035.84	1,378.50
40 05 19 00-1704	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow	37,105.81	1,459.74

**40 05 19 00-1705 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows** (40 05 19 00-0001)

40 05 19 00-1706	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	550.17	162.47
40 05 19 00-1707	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	845.22	207.76
40 05 19 00-1708	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,235.32	235.33
40 05 19 00-1709	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	1,753.56	298.34
40 05 19 00-1710	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,469.39	330.84
40 05 19 00-1711	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	2,876.83	359.39
40 05 19 00-1712	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	3,730.40	443.09
40 05 19 00-1713	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	4,619.93	531.71
40 05 19 00-1714	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	6,294.99	669.56
40 05 19 00-1715	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	9,230.22	758.17
40 05 19 00-1716	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	16,221.63	1,004.34
40 05 19 00-1717	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	24,662.85	1,137.26
40 05 19 00-1718	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow	38,206.07	1,299.73

**40 05 19 00-1719 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base** (40 05 19 00-0001)

40 05 19 00-1720	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	580.25	162.47
40 05 19 00-1721	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	786.63	207.76
40 05 19 00-1722	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,276.49	235.33
40 05 19 00-1723	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	1,723.48	298.34
40 05 19 00-1724	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,309.47	330.84
40 05 19 00-1725	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	2,724.83	359.39
40 05 19 00-1726	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	3,366.23	443.09
40 05 19 00-1727	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	4,227.26	531.71
40 05 19 00-1728	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	5,576.14	669.56
40 05 19 00-1729	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	7,862.20	758.17
40 05 19 00-1730	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	12,869.66	1,004.34
40 05 19 00-1731	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	18,378.49	1,137.26
40 05 19 00-1732	EA	42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	34,070.33	1,299.73
40 05 19 00-1733	EA	48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base	36,753.59	1,595.12

**40 05 19 00-1734 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees** (40 05 19 00-0001)

40 05 19 00-1735	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	791.19	260.93
40 05 19 00-1736	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	980.36	321.00
40 05 19 00-1737	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,367.98	358.41
40 05 19 00-1738	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	1,959.68	465.74
40 05 19 00-1739	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	2,593.85	508.08
40 05 19 00-1740	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,461.13	546.48
40 05 19 00-1741	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	3,927.62	689.25
40 05 19 00-1742	EA	18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	4,784.57	787.72
40 05 19 00-1743	EA	20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	6,035.21	994.49
40 05 19 00-1744	EA	24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	8,855.07	1,097.88
40 05 19 00-1745	EA	30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	15,038.80	1,516.36
40 05 19 00-1746	EA	36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee	21,636.67	1,737.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1747 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee.....	44,605.07	2,008.67
<b>40 05 19 00-1748 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tees</b> <small>(40 05 19 00-0001)</small>		
40 05 19 00-1749 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	987.86	291.46
40 05 19 00-1750 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,216.90	297.36
40 05 19 00-1751 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,219.75	334.78
40 05 19 00-1752 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,598.73	328.87
40 05 19 00-1753 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,582.58	366.29
40 05 19 00-1754 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	1,669.05	389.92
40 05 19 00-1755 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,019.93	345.61
40 05 19 00-1756 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,018.04	383.02
40 05 19 00-1757 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,131.43	406.65
40 05 19 00-1758 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,539.22	482.47
40 05 19 00-1759 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,930.66	359.39
40 05 19 00-1760 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,871.77	396.81
40 05 19 00-1761 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	2,999.40	420.44
40 05 19 00-1762 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,172.87	496.26
40 05 19 00-1763 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,364.41	522.35
40 05 19 00-1764 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,551.42	401.24
40 05 19 00-1765 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,278.76	438.66
40 05 19 00-1766 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,229.07	462.29
40 05 19 00-1767 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,788.87	538.11
40 05 19 00-1768 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,681.15	564.20
40 05 19 00-1769 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,100.87	588.33
40 05 19 00-1770 EA 18" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,338.98	445.55
40 05 19 00-1771 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,284.15	482.97
40 05 19 00-1772 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,948.55	506.60
40 05 19 00-1773 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	3,970.00	582.41
40 05 19 00-1774 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,318.29	608.51
40 05 19 00-1775 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,711.09	632.63
40 05 19 00-1776 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,046.10	733.56
40 05 19 00-1777 EA 20" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,544.99	514.48
40 05 19 00-1778 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,813.60	551.89
40 05 19 00-1779 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	4,914.32	575.53
40 05 19 00-1780 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,127.37	651.35
40 05 19 00-1781 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,328.41	677.44
40 05 19 00-1782 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,398.21	701.56
40 05 19 00-1783 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,496.39	802.49
40 05 19 00-1784 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,643.36	856.64
40 05 19 00-1785 EA 24" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,355.16	558.78
40 05 19 00-1786 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,499.82	596.20
40 05 19 00-1787 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,749.40	619.83
40 05 19 00-1788 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	5,983.02	695.65
40 05 19 00-1789 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,700.23	721.74
40 05 19 00-1790 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	6,866.61	745.87
40 05 19 00-1791 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	7,105.03	846.79
40 05 19 00-1792 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,316.71	900.95
40 05 19 00-1793 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	9,639.92	962.74
40 05 19 00-1794 EA 30" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,251.82	719.28
40 05 19 00-1795 EA 30" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,320.89	742.91
40 05 19 00-1796 EA 30" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,646.34	818.73
40 05 19 00-1797 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,685.88	844.82
40 05 19 00-1798 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,722.43	868.95
40 05 19 00-1799 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	11,979.84	969.88
40 05 19 00-1800 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,131.57	1,024.03
40 05 19 00-1801 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	12,513.03	1,161.88
40 05 19 00-1802 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,990.93	1,220.96
40 05 19 00-1803 EA 36" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	15,525.01	1,029.44
40 05 19 00-1804 EA 36" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,603.11	1,048.15
40 05 19 00-1805 EA 36" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,719.26	1,101.82
40 05 19 00-1806 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,855.84	1,122.99
40 05 19 00-1807 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	16,919.76	1,142.19
40 05 19 00-1808 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,097.59	1,213.57
40 05 19 00-1809 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,207.02	1,262.80
40 05 19 00-1810 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,503.01	1,366.20
40 05 19 00-1811 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	17,896.42	1,417.89
40 05 19 00-1812 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	23,413.20	1,627.12
40 05 19 00-1813 EA 42" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	27,672.77	890.61
40 05 19 00-1814 EA 42" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,038.93	966.43
40 05 19 00-1815 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,078.47	992.52
40 05 19 00-1816 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,151.43	1,016.65
40 05 19 00-1817 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,378.77	1,117.57
40 05 19 00-1818 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,647.67	1,171.72
40 05 19 00-1819 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	25,856.53	1,309.58
40 05 19 00-1820 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	26,243.71	1,368.66
40 05 19 00-1821 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,244.80	1,664.05
40 05 19 00-1822 EA 42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	42,679.10	1,819.13
40 05 19 00-1823 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,886.87	1,152.52
40 05 19 00-1824 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	33,923.42	1,176.65
40 05 19 00-1825 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,187.18	1,277.58

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1826 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,269.24	1,331.74
40 05 19 00-1827 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,625.35	1,469.58
40 05 19 00-1828 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	34,976.12	1,528.66
40 05 19 00-1829 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Reducing Tee.....	35,946.20	1,824.06
<b>40 05 19 00-1830 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tees With Base (40 05 19 00-0001)</b>		
40 05 19 00-1831 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base .....	851.36	260.93
40 05 19 00-1832 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base .....	1,152.94	321.00
40 05 19 00-1833 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base .....	1,665.65	358.41
40 05 19 00-1834 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	2,521.77	465.74
40 05 19 00-1835 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,372.86	508.08
40 05 19 00-1836 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	3,765.13	546.48
40 05 19 00-1837 EA 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	4,674.96	689.25
40 05 19 00-1838 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	5,672.84	787.72
40 05 19 00-1839 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	7,567.90	994.49
40 05 19 00-1840 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	10,853.27	1,097.88
40 05 19 00-1841 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	18,150.10	1,516.36
40 05 19 00-1842 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Tee With Base.....	25,815.15	1,737.90
<b>40 05 19 00-1843 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wyes (40 05 19 00-0001)</b>		
40 05 19 00-1844 EA 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	699.36	260.93
40 05 19 00-1845 EA 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	972.44	321.00
40 05 19 00-1846 EA 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	1,391.73	358.41
40 05 19 00-1847 EA 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye .....	1,828.26	465.74
40 05 19 00-1848 EA 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye .....	2,585.93	508.08
40 05 19 00-1849 EA 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Wye.....	3,340.79	546.48
<b>40 05 19 00-1850 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Crosses (40 05 19 00-0001)</b>		
40 05 19 00-1851 EA 4" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	960.96	359.39
40 05 19 00-1852 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,256.63	389.42
40 05 19 00-1853 EA 6" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,334.01	434.23
40 05 19 00-1854 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,538.67	395.82
40 05 19 00-1855 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,679.48	448.01
40 05 19 00-1856 EA 8" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,741.30	481.49
40 05 19 00-1857 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	1,979.09	427.34
40 05 19 00-1858 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,180.07	479.52
40 05 19 00-1859 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,382.80	513.00
40 05 19 00-1860 EA 10" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,957.48	633.13
40 05 19 00-1861 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,548.38	443.58
40 05 19 00-1862 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,687.62	495.77
40 05 19 00-1863 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	2,891.93	529.25
40 05 19 00-1864 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,496.69	649.37
40 05 19 00-1865 EA 12" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,302.55	685.31
40 05 19 00-1866 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,193.76	510.05
40 05 19 00-1867 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,396.48	543.52
40 05 19 00-1868 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,790.66	663.65
40 05 19 00-1869 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,119.03	699.59
40 05 19 00-1870 EA 14" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,320.92	733.56
40 05 19 00-1871 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,803.42	551.89
40 05 19 00-1872 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,034.65	585.37
40 05 19 00-1873 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,428.82	705.50
40 05 19 00-1874 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,787.29	741.44
40 05 19 00-1875 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,642.20	775.40
40 05 19 00-1876 EA 16" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,443.78	935.41
40 05 19 00-1877 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	3,962.38	596.20
40 05 19 00-1878 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,192.03	629.69
40 05 19 00-1879 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,526.04	749.81
40 05 19 00-1880 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	4,882.93	785.75
40 05 19 00-1881 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,599.41	819.72
40 05 19 00-1882 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,115.76	979.72
40 05 19 00-1883 EA 18" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,394.81	1,043.73
40 05 19 00-1884 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,148.26	665.13
40 05 19 00-1885 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,393.74	698.61
40 05 19 00-1886 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	5,705.58	818.73
40 05 19 00-1887 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,086.20	854.67
40 05 19 00-1888 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,202.60	888.64
40 05 19 00-1889 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,553.38	1,048.64
40 05 19 00-1890 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,845.10	1,112.65
40 05 19 00-1891 EA 20" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,615.99	1,319.42
40 05 19 00-1892 EA 24" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,779.75	709.44
40 05 19 00-1893 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	6,958.73	742.91
40 05 19 00-1894 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,368.74	863.04
40 05 19 00-1895 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,619.54	898.98
40 05 19 00-1896 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	7,769.17	932.95
40 05 19 00-1897 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	8,239.61	1,092.96
40 05 19 00-1898 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross.....	10,651.45	1,156.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-1899 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	11,270.68	1,287.68
40 05 19 00-1900 EA 24" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	12,411.41	1,437.58
40 05 19 00-1901 EA 30" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	12,478.51	1,022.07
40 05 19 00-1902 EA 30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	12,564.82	1,056.03
40 05 19 00-1903 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	13,051.09	1,216.04
40 05 19 00-1904 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	13,217.72	1,280.04
40 05 19 00-1905 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	13,915.78	1,486.81
40 05 19 00-1906 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	18,043.07	1,560.66
40 05 19 00-1907 EA 30" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	20,529.82	2,028.37
40 05 19 00-1908 EA 36" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	17,610.46	1,300.22
40 05 19 00-1909 EA 36" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	17,654.48	1,329.27
40 05 19 00-1910 EA 36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	18,064.32	1,459.74
40 05 19 00-1911 EA 36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	18,221.91	1,518.81
40 05 19 00-1912 EA 36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	18,798.09	1,691.13
40 05 19 00-1913 EA 36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	19,457.72	1,757.59
40 05 19 00-1914 EA 36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	26,283.76	2,139.14
40 05 19 00-1915 EA 36" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	28,819.99	2,338.53
40 05 19 00-1916 EA 42" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	25,905.93	1,169.75
40 05 19 00-1917 EA 42" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	25,957.40	1,203.73
40 05 19 00-1918 EA 42" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	26,423.09	1,363.73
40 05 19 00-1919 EA 42" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	26,556.47	1,427.73
40 05 19 00-1920 EA 42" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	27,205.45	1,634.51
40 05 19 00-1921 EA 42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	27,876.26	1,708.36
40 05 19 00-1922 EA 42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	35,882.62	2,176.06
40 05 19 00-1923 EA 42" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	49,510.92	2,419.77
40 05 19 00-1924 EA 48" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	36,815.57	2,717.62
40 05 19 00-1925 EA 48" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	34,726.23	1,363.73
40 05 19 00-1926 EA 48" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	35,193.50	1,523.74
40 05 19 00-1927 EA 48" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	35,326.89	1,587.74
40 05 19 00-1928 EA 48" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	35,937.85	1,794.51
40 05 19 00-1929 EA 48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	36,608.67	1,868.36
40 05 19 00-1930 EA 48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Cross .....	38,322.75	2,336.07
<b>40 05 19 00-1931 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducers (40 05 19 00-0001)</b>		
40 05 19 00-1932 EA 6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	511.64	185.12
40 05 19 00-1933 EA 8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	648.12	198.90
40 05 19 00-1934 EA 8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	714.09	221.55
40 05 19 00-1935 EA 10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	866.86	230.41
40 05 19 00-1936 EA 10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	877.43	253.05
40 05 19 00-1937 EA 10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,021.81	266.84
40 05 19 00-1938 EA 12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,101.23	247.15
40 05 19 00-1939 EA 12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,140.29	269.80
40 05 19 00-1940 EA 12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,248.27	283.58
40 05 19 00-1941 EA 12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,403.67	315.09
40 05 19 00-1942 EA 14" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,707.14	269.80
40 05 19 00-1943 EA 14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,368.60	283.58
40 05 19 00-1944 EA 14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,511.40	297.36
40 05 19 00-1945 EA 14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,662.06	328.87
40 05 19 00-1946 EA 14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,619.34	345.61
40 05 19 00-1947 EA 16" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,018.36	302.77
40 05 19 00-1948 EA 16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,645.76	325.43
40 05 19 00-1949 EA 16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,558.97	339.21
40 05 19 00-1950 EA 16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,736.55	370.72
40 05 19 00-1951 EA 16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,142.75	386.96
40 05 19 00-1952 EA 16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,303.73	401.23
40 05 19 00-1953 EA 18" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,552.07	369.74
40 05 19 00-1954 EA 18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,034.61	383.52
40 05 19 00-1955 EA 18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,234.36	415.03
40 05 19 00-1956 EA 18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,222.56	431.27
40 05 19 00-1957 EA 18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,551.36	445.55
40 05 19 00-1958 EA 18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,553.01	487.40
40 05 19 00-1959 EA 20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,620.08	438.66
40 05 19 00-1960 EA 20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,544.38	452.44
40 05 19 00-1961 EA 20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,755.21	483.96
40 05 19 00-1962 EA 20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,689.58	500.20
40 05 19 00-1963 EA 20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,095.97	514.48
40 05 19 00-1964 EA 20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,915.54	556.32
40 05 19 00-1965 EA 20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,584.35	600.63
40 05 19 00-1966 EA 24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,425.36	496.75
40 05 19 00-1967 EA 24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,864.20	528.26
40 05 19 00-1968 EA 24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,153.24	544.51
40 05 19 00-1969 EA 24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,263.54	558.78
40 05 19 00-1970 EA 24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,787.02	600.63
40 05 19 00-1971 EA 24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,561.91	644.94
40 05 19 00-1972 EA 24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,812.35	637.81
40 05 19 00-1973 EA 30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	6,543.29	723.71
40 05 19 00-1974 EA 30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	6,821.02	768.03
40 05 19 00-1975 EA 30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	7,345.04	836.95
40 05 19 00-1976 EA 30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	8,110.44	881.25

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 05 19 00-1977	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	8,914.54	790.17
40 05 19 00-1978	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	9,364.84	834.49
40 05 19 00-1979	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	9,958.53	903.41
40 05 19 00-1980	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	10,830.01	947.72
40 05 19 00-1981	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	12,482.70	1,070.80
40 05 19 00-1982	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	15,115.75	1,028.95
40 05 19 00-1983	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	17,088.26	1,152.04
40 05 19 00-1984	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	19,312.25	1,218.50
40 05 19 00-1985	EA	48" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	19,193.08	1,188.96
40 05 19 00-1986	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	21,539.27	1,312.04
40 05 19 00-1987	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	24,060.93	1,378.50
40 05 19 00-1988	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	26,940.64	1,459.74

**40 05 19 00-1989 Flanged End x Flanged End, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducers (40 05 19 00-0001)**

40 05 19 00-1990	EA	6" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	554.39	185.12
40 05 19 00-1991	EA	8" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	697.20	198.90
40 05 19 00-1992	EA	8" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	791.68	221.55
40 05 19 00-1993	EA	10" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	866.86	230.41
40 05 19 00-1994	EA	10" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	929.68	253.05
40 05 19 00-1995	EA	10" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,070.89	266.84
40 05 19 00-1996	EA	12" x 4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,101.23	247.15
40 05 19 00-1997	EA	12" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,197.29	269.80
40 05 19 00-1998	EA	12" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,308.43	283.58
40 05 19 00-1999	EA	12" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,508.17	315.09
40 05 19 00-2000	EA	14" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,368.60	283.58
40 05 19 00-2001	EA	14" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,481.32	297.36
40 05 19 00-2002	EA	14" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,650.98	328.87
40 05 19 00-2003	EA	14" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,886.92	345.61
40 05 19 00-2004	EA	16" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,645.76	325.43
40 05 19 00-2005	EA	16" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,785.39	339.21
40 05 19 00-2006	EA	16" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	1,985.14	370.72
40 05 19 00-2007	EA	16" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,191.84	386.96
40 05 19 00-2008	EA	16" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,303.73	401.24
40 05 19 00-2009	EA	18" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,034.61	383.52
40 05 19 00-2010	EA	18" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,234.36	415.03
40 05 19 00-2011	EA	18" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,441.06	431.27
40 05 19 00-2012	EA	18" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,551.36	445.55
40 05 19 00-2013	EA	18" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,796.85	487.40
40 05 19 00-2014	EA	20" x 6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,958.92	438.66
40 05 19 00-2015	EA	20" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,707.47	452.44
40 05 19 00-2016	EA	20" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	2,755.21	483.96
40 05 19 00-2017	EA	20" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,007.83	500.20
40 05 19 00-2018	EA	20" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,095.97	514.48
40 05 19 00-2019	EA	20" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,384.21	556.32
40 05 19 00-2020	EA	20" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,582.76	600.63
40 05 19 00-2021	EA	24" x 8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,751.53	496.75
40 05 19 00-2022	EA	24" x 10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,864.20	528.26
40 05 19 00-2023	EA	24" x 12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	3,953.74	544.51
40 05 19 00-2024	EA	24" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,040.29	558.78
40 05 19 00-2025	EA	24" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,333.27	600.63
40 05 19 00-2026	EA	24" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,561.91	644.94
40 05 19 00-2027	EA	24" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	4,812.35	637.81
40 05 19 00-2028	EA	30" x 14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,808.33	681.86
40 05 19 00-2029	EA	30" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,626.31	723.71
40 05 19 00-2030	EA	30" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	6,855.85	768.03
40 05 19 00-2031	EA	30" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	7,345.04	836.95
40 05 19 00-2032	EA	30" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,110.44	881.25
40 05 19 00-2033	EA	36" x 16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	8,984.20	790.17
40 05 19 00-2034	EA	36" x 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	9,364.84	834.49
40 05 19 00-2035	EA	36" x 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	9,923.69	903.41
40 05 19 00-2036	EA	36" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	10,792.01	947.72
40 05 19 00-2037	EA	36" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	12,447.86	1,070.80
40 05 19 00-2038	EA	42" x 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	15,115.75	1,028.95
40 05 19 00-2039	EA	42" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	12,813.19	1,152.04
40 05 19 00-2040	EA	42" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	19,312.25	1,218.50
40 05 19 00-2041	EA	48" x 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	21,539.27	1,312.04
40 05 19 00-2042	EA	48" x 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	24,060.93	1,378.50
40 05 19 00-2043	EA	48" x 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Eccentric Reducer.....	26,940.64	1,459.74

**40 05 19 00-2044 Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flanges (40 05 19 00-0001)**

40 05 19 00-2045	EA	4" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	196.72	64.00
40 05 19 00-2046	EA	6" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	295.22	94.52
40 05 19 00-2047	EA	8" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	424.99	112.25
40 05 19 00-2048	EA	10" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	581.59	130.96
40 05 19 00-2049	EA	12" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	748.91	153.60
40 05 19 00-2050	EA	14" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	986.26	172.32
40 05 19 00-2051	EA	16" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	1,177.14	196.93





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2052 EA 18" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	1,595.75	275.70
40 05 19 00-2053 EA 20" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	2,116.60	344.63
40 05 19 00-2054 EA 24" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	3,005.92	418.47
40 05 19 00-2055 EA 30" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	4,225.04	487.40
40 05 19 00-2056 EA 36" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	7,504.36	536.63
40 05 19 00-2057 EA 42" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	10,559.96	590.78
40 05 19 00-2058 EA 48" Flanged, Cement Lined, Bituminous Seal Coat, Ductile Iron Blind Flange .....	13,941.49	664.63
 40 05 19 00-2059 Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Piping <small>(40 05 19)</small>		
Note: 350 PSI rating for 2" - 24" sizes, 250 PSI rating for 30" - 48" sizes. Pipe barrels conform to ANSI/AWWA C151/A21.51. The bolt holes are aligned per ANSI/AWWA C115/A21.15. Flanged fittings conform to ANSI/AWWA C110/A21.10. Interiors shall be ceramic epoxy. Exterior shall be bituminous coating, in accordance with ANSI/AWWA C104/A21.04. See CSI section 40 05 19 00-4062 for bolts, 40 05 19 00-4077 for gaskets.		
 40 05 19 00-2060 Flanged End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2059)</small>		
 40 05 19 00-2061 4" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2060)</small>		
40 05 19 00-2062 EA 4" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,109.11	281.61
For Class 52 Rating, Deduct	-75.07	
For Class 54 Rating, Add	107.48	
For Class 55 Rating, Add	162.42	
For Class 56 Rating, Add	216.68	
40 05 19 00-2063 EA 4" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,213.70	286.53
For Class 52 Rating, Deduct	-85.75	
For Class 54 Rating, Add	122.14	
For Class 55 Rating, Add	184.26	
For Class 56 Rating, Add	245.60	
40 05 19 00-2064 EA 4" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,318.28	291.46
For Class 52 Rating, Deduct	-96.43	
For Class 54 Rating, Add	136.80	
For Class 55 Rating, Add	206.10	
For Class 56 Rating, Add	274.52	
40 05 19 00-2065 EA 4" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,422.86	296.38
For Class 52 Rating, Deduct	-107.12	
For Class 54 Rating, Add	151.46	
For Class 55 Rating, Add	227.94	
For Class 56 Rating, Add	303.44	
40 05 19 00-2066 EA 4" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,527.45	301.30
For Class 52 Rating, Deduct	-117.80	
For Class 54 Rating, Add	166.12	
For Class 55 Rating, Add	249.77	
For Class 56 Rating, Add	332.36	
40 05 19 00-2067 EA 4" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,632.04	306.23
For Class 52 Rating, Deduct	-128.49	
For Class 54 Rating, Add	180.78	
For Class 55 Rating, Add	271.61	
For Class 56 Rating, Add	361.28	
40 05 19 00-2068 EA 4" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,736.61	311.14
For Class 52 Rating, Deduct	-139.17	
For Class 54 Rating, Add	195.43	
For Class 55 Rating, Add	293.45	
For Class 56 Rating, Add	390.20	
40 05 19 00-2069 EA 4" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,841.21	316.07
For Class 52 Rating, Deduct	-149.85	
For Class 54 Rating, Add	210.09	
For Class 55 Rating, Add	315.29	
For Class 56 Rating, Add	419.12	
40 05 19 00-2070 EA 4" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,945.78	321.00
For Class 52 Rating, Deduct	-160.54	
For Class 54 Rating, Add	224.75	
For Class 55 Rating, Add	337.13	
For Class 56 Rating, Add	448.04	
40 05 19 00-2071 EA 4" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,050.38	325.92
For Class 52 Rating, Deduct	-171.22	
For Class 54 Rating, Add	239.41	
For Class 55 Rating, Add	358.96	
For Class 56 Rating, Add	476.96	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2072	EA	4" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		2,154.95	330.84
		For Class 52 Rating, Deduct		-181.90	
		For Class 54 Rating, Add		254.07	
		For Class 55 Rating, Add		380.80	
		For Class 56 Rating, Add		505.88	
40 05 19 00-2073	EA	4" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		2,259.54	335.76
		For Class 52 Rating, Deduct		-192.59	
		For Class 54 Rating, Add		268.73	
		For Class 55 Rating, Add		402.64	
		For Class 56 Rating, Add		534.80	
40 05 19 00-2074	EA	4" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		2,364.13	340.69
		For Class 52 Rating, Deduct		-203.27	
		For Class 54 Rating, Add		283.38	
		For Class 55 Rating, Add		424.48	
		For Class 56 Rating, Add		563.72	
40 05 19 00-2075	EA	4" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		2,468.71	345.61
		For Class 52 Rating, Deduct		-213.96	
		For Class 54 Rating, Add		298.04	
		For Class 55 Rating, Add		446.32	
		For Class 56 Rating, Add		592.64	
40 05 19 00-2076	EA	4" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		2,573.29	350.53
		For Class 52 Rating, Deduct		-224.64	
		For Class 54 Rating, Add		312.70	
		For Class 55 Rating, Add		468.15	
		For Class 56 Rating, Add		621.56	
40 05 19 00-2077	EA	4" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		2,677.87	355.46
		For Class 52 Rating, Deduct		-235.32	
		For Class 54 Rating, Add		327.36	
		For Class 55 Rating, Add		489.99	
		For Class 56 Rating, Add		650.48	
40 05 19 00-2078	EA	4" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		2,782.46	360.38
		For Class 52 Rating, Deduct		-246.01	
		For Class 54 Rating, Add		342.02	
		For Class 55 Rating, Add		511.83	
		For Class 56 Rating, Add		679.40	
40 05 19 00-2079	EA	4" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		2,887.05	365.30
		For Class 52 Rating, Deduct		-256.69	
		For Class 54 Rating, Add		356.68	
		For Class 55 Rating, Add		533.67	
		For Class 56 Rating, Add		708.33	
40 05 19 00-2080	EA	4" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		2,991.63	370.22
		For Class 52 Rating, Deduct		-267.37	
		For Class 54 Rating, Add		371.33	
		For Class 55 Rating, Add		555.50	
		For Class 56 Rating, Add		737.24	
40 05 19 00-2081	EA	4" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		3,096.21	375.15
		For Class 52 Rating, Deduct		-278.06	
		For Class 54 Rating, Add		385.99	
		For Class 55 Rating, Add		577.34	
		For Class 56 Rating, Add		766.16	
40 05 19 00-2082	EA	4" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		3,200.80	380.08
		For Class 52 Rating, Deduct		-288.74	
		For Class 54 Rating, Add		400.65	
		For Class 55 Rating, Add		599.18	
		For Class 56 Rating, Add		795.09	
40 05 19 00-2083	EA	4" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		3,305.38	384.99
		For Class 52 Rating, Deduct		-299.43	
		For Class 54 Rating, Add		415.31	
		For Class 55 Rating, Add		621.02	
		For Class 56 Rating, Add		824.00	
40 05 19 00-2084	EA	4" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		3,409.96	389.92
		For Class 52 Rating, Deduct		-310.11	
		For Class 54 Rating, Add		429.97	
		For Class 55 Rating, Add		642.86	
		For Class 56 Rating, Add		852.93	
40 05 19 00-2085	EA	4" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron			
		Pipe .....		3,514.55	394.84
		For Class 52 Rating, Deduct		-320.79	
		For Class 54 Rating, Add		444.62	
		For Class 55 Rating, Add		664.69	
		For Class 56 Rating, Add		881.85	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2086 EA 4" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,619.13	399.77
For Class 52 Rating, Deduct	-331.48	
For Class 54 Rating, Add	459.28	
For Class 55 Rating, Add	686.53	
For Class 56 Rating, Add	910.77	
40 05 19 00-2087 EA 4" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,723.72	404.69
For Class 52 Rating, Deduct	-342.16	
For Class 54 Rating, Add	473.94	
For Class 55 Rating, Add	708.37	
For Class 56 Rating, Add	939.69	
40 05 19 00-2088 EA 4" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,828.30	409.61
For Class 52 Rating, Deduct	-352.84	
For Class 54 Rating, Add	488.60	
For Class 55 Rating, Add	730.21	
For Class 56 Rating, Add	968.61	
40 05 19 00-2089 EA 4" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,932.88	414.54
For Class 52 Rating, Deduct	-363.53	
For Class 54 Rating, Add	503.26	
For Class 55 Rating, Add	752.04	
For Class 56 Rating, Add	997.53	
40 05 19 00-2090 EA 4" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,037.48	419.45
For Class 52 Rating, Deduct	-374.21	
For Class 54 Rating, Add	517.92	
For Class 55 Rating, Add	773.88	
For Class 56 Rating, Add	1,026.45	
40 05 19 00-2091 EA 4" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,142.05	424.38
For Class 52 Rating, Deduct	-384.90	
For Class 54 Rating, Add	532.57	
For Class 55 Rating, Add	795.72	
For Class 56 Rating, Add	1,055.37	
40 05 19 00-2092 EA 4" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,246.64	429.31
For Class 52 Rating, Deduct	-395.58	
For Class 54 Rating, Add	547.23	
For Class 55 Rating, Add	817.56	
For Class 56 Rating, Add	1,084.29	
40 05 19 00-2093 EA 4" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,351.22	434.23
For Class 52 Rating, Deduct	-406.26	
For Class 54 Rating, Add	561.89	
For Class 55 Rating, Add	839.40	
For Class 56 Rating, Add	1,113.21	
40 05 19 00-2094 EA 4" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,455.81	439.15
For Class 52 Rating, Deduct	-416.95	
For Class 54 Rating, Add	576.55	
For Class 55 Rating, Add	861.24	
For Class 56 Rating, Add	1,142.13	
40 05 19 00-2095 EA 4" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,560.39	444.07
For Class 52 Rating, Deduct	-427.63	
For Class 54 Rating, Add	591.21	
For Class 55 Rating, Add	883.07	
For Class 56 Rating, Add	1,171.05	
40 05 19 00-2096 EA 4" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,664.98	449.00
For Class 52 Rating, Deduct	-438.31	
For Class 54 Rating, Add	605.87	
For Class 55 Rating, Add	904.91	
For Class 56 Rating, Add	1,199.97	
40 05 19 00-2097 EA 4" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,769.56	453.93
For Class 52 Rating, Deduct	-449.00	
For Class 54 Rating, Add	620.52	
For Class 55 Rating, Add	926.75	
For Class 56 Rating, Add	1,228.89	
40 05 19 00-2098 EA 4" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,874.15	458.84
For Class 52 Rating, Deduct	-459.68	
For Class 54 Rating, Add	635.18	
For Class 55 Rating, Add	948.59	
For Class 56 Rating, Add	1,257.81	
40 05 19 00-2099 EA 4" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,978.73	463.77
For Class 52 Rating, Deduct	-470.37	
For Class 54 Rating, Add	649.84	
For Class 55 Rating, Add	970.42	
For Class 56 Rating, Add	1,286.73	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2100	EA		4" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,083.32	468.69
			<i>For Class 52 Rating, Deduct</i>	-481.05	
			<i>For Class 54 Rating, Add</i>	664.50	
			<i>For Class 55 Rating, Add</i>	992.26	
			<i>For Class 56 Rating, Add</i>	1,315.65	
40 05 19 00-2101			<b>6" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small>		
40 05 19 00-2102	EA		6" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,388.20	354.47
			<i>For Class 52 Rating, Deduct</i>	-93.62	
			<i>For Class 54 Rating, Add</i>	134.11	
			<i>For Class 55 Rating, Add</i>	202.69	
			<i>For Class 56 Rating, Add</i>	270.42	
40 05 19 00-2103	EA		6" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,508.12	359.39
			<i>For Class 52 Rating, Deduct</i>	-105.99	
			<i>For Class 54 Rating, Add</i>	151.07	
			<i>For Class 55 Rating, Add</i>	227.95	
			<i>For Class 56 Rating, Add</i>	303.86	
40 05 19 00-2104	EA		6" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,628.04	364.32
			<i>For Class 52 Rating, Deduct</i>	-118.36	
			<i>For Class 54 Rating, Add</i>	168.03	
			<i>For Class 55 Rating, Add</i>	253.20	
			<i>For Class 56 Rating, Add</i>	337.30	
40 05 19 00-2105	EA		6" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,747.95	369.25
			<i>For Class 52 Rating, Deduct</i>	-130.74	
			<i>For Class 54 Rating, Add</i>	184.99	
			<i>For Class 55 Rating, Add</i>	278.46	
			<i>For Class 56 Rating, Add</i>	370.75	
40 05 19 00-2106	EA		6" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,867.88	374.16
			<i>For Class 52 Rating, Deduct</i>	-143.11	
			<i>For Class 54 Rating, Add</i>	201.95	
			<i>For Class 55 Rating, Add</i>	303.72	
			<i>For Class 56 Rating, Add</i>	404.19	
40 05 19 00-2107	EA		6" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,987.80	379.09
			<i>For Class 52 Rating, Deduct</i>	-155.48	
			<i>For Class 54 Rating, Add</i>	218.91	
			<i>For Class 55 Rating, Add</i>	328.98	
			<i>For Class 56 Rating, Add</i>	437.64	
40 05 19 00-2108	EA		6" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,107.71	384.01
			<i>For Class 52 Rating, Deduct</i>	-167.85	
			<i>For Class 54 Rating, Add</i>	235.86	
			<i>For Class 55 Rating, Add</i>	354.24	
			<i>For Class 56 Rating, Add</i>	471.08	
40 05 19 00-2109	EA		6" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,227.64	388.94
			<i>For Class 52 Rating, Deduct</i>	-180.22	
			<i>For Class 54 Rating, Add</i>	252.82	
			<i>For Class 55 Rating, Add</i>	379.49	
			<i>For Class 56 Rating, Add</i>	504.53	
40 05 19 00-2110	EA		6" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,347.56	393.85
			<i>For Class 52 Rating, Deduct</i>	-192.59	
			<i>For Class 54 Rating, Add</i>	269.78	
			<i>For Class 55 Rating, Add</i>	404.75	
			<i>For Class 56 Rating, Add</i>	537.97	
40 05 19 00-2111	EA		6" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,467.49	398.78
			<i>For Class 52 Rating, Deduct</i>	-204.96	
			<i>For Class 54 Rating, Add</i>	286.74	
			<i>For Class 55 Rating, Add</i>	430.01	
			<i>For Class 56 Rating, Add</i>	571.42	
40 05 19 00-2112	EA		6" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,587.40	403.71
			<i>For Class 52 Rating, Deduct</i>	-217.33	
			<i>For Class 54 Rating, Add</i>	303.70	
			<i>For Class 55 Rating, Add</i>	455.27	
			<i>For Class 56 Rating, Add</i>	604.86	
40 05 19 00-2113	EA		6" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,707.32	408.63
			<i>For Class 52 Rating, Deduct</i>	-229.70	
			<i>For Class 54 Rating, Add</i>	320.66	
			<i>For Class 55 Rating, Add</i>	480.53	
			<i>For Class 56 Rating, Add</i>	638.30	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

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	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2114	EA			6" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,827.25	413.55
				<i>For Class 52 Rating, Deduct</i>	-242.07	
				<i>For Class 54 Rating, Add</i>	337.62	
				<i>For Class 55 Rating, Add</i>	505.78	
				<i>For Class 56 Rating, Add</i>	671.75	
40 05 19 00-2115	EA			6" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,947.16	418.47
				<i>For Class 52 Rating, Deduct</i>	-254.44	
				<i>For Class 54 Rating, Add</i>	354.58	
				<i>For Class 55 Rating, Add</i>	531.04	
				<i>For Class 56 Rating, Add</i>	705.19	
40 05 19 00-2116	EA			6" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,067.08	423.40
				<i>For Class 52 Rating, Deduct</i>	-266.81	
				<i>For Class 54 Rating, Add</i>	371.53	
				<i>For Class 55 Rating, Add</i>	556.30	
				<i>For Class 56 Rating, Add</i>	738.64	
40 05 19 00-2117	EA			6" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,187.00	428.32
				<i>For Class 52 Rating, Deduct</i>	-279.18	
				<i>For Class 54 Rating, Add</i>	388.49	
				<i>For Class 55 Rating, Add</i>	581.56	
				<i>For Class 56 Rating, Add</i>	772.08	
40 05 19 00-2118	EA			6" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,306.92	433.24
				<i>For Class 52 Rating, Deduct</i>	-291.55	
				<i>For Class 54 Rating, Add</i>	405.45	
				<i>For Class 55 Rating, Add</i>	606.81	
				<i>For Class 56 Rating, Add</i>	805.53	
40 05 19 00-2119	EA			6" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,426.84	438.17
				<i>For Class 52 Rating, Deduct</i>	-303.92	
				<i>For Class 54 Rating, Add</i>	422.41	
				<i>For Class 55 Rating, Add</i>	632.07	
				<i>For Class 56 Rating, Add</i>	838.97	
40 05 19 00-2120	EA			6" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,546.76	443.09
				<i>For Class 52 Rating, Deduct</i>	-316.30	
				<i>For Class 54 Rating, Add</i>	439.37	
				<i>For Class 55 Rating, Add</i>	657.33	
				<i>For Class 56 Rating, Add</i>	872.41	
40 05 19 00-2121	EA			6" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,666.67	448.01
				<i>For Class 52 Rating, Deduct</i>	-328.67	
				<i>For Class 54 Rating, Add</i>	456.33	
				<i>For Class 55 Rating, Add</i>	682.59	
				<i>For Class 56 Rating, Add</i>	905.86	
40 05 19 00-2122	EA			6" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,786.60	452.94
				<i>For Class 52 Rating, Deduct</i>	-341.04	
				<i>For Class 54 Rating, Add</i>	473.28	
				<i>For Class 55 Rating, Add</i>	707.84	
				<i>For Class 56 Rating, Add</i>	939.30	
40 05 19 00-2123	EA			6" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,906.52	457.86
				<i>For Class 52 Rating, Deduct</i>	-353.41	
				<i>For Class 54 Rating, Add</i>	490.24	
				<i>For Class 55 Rating, Add</i>	733.10	
				<i>For Class 56 Rating, Add</i>	972.75	
40 05 19 00-2124	EA			6" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,026.43	462.79
				<i>For Class 52 Rating, Deduct</i>	-365.78	
				<i>For Class 54 Rating, Add</i>	507.20	
				<i>For Class 55 Rating, Add</i>	758.36	
				<i>For Class 56 Rating, Add</i>	1,006.19	
40 05 19 00-2125	EA			6" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,146.36	467.70
				<i>For Class 52 Rating, Deduct</i>	-378.15	
				<i>For Class 54 Rating, Add</i>	524.16	
				<i>For Class 55 Rating, Add</i>	783.62	
				<i>For Class 56 Rating, Add</i>	1,039.64	
40 05 19 00-2126	EA			6" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,266.27	472.63
				<i>For Class 52 Rating, Deduct</i>	-390.52	
				<i>For Class 54 Rating, Add</i>	541.12	
				<i>For Class 55 Rating, Add</i>	808.87	
				<i>For Class 56 Rating, Add</i>	1,073.08	
40 05 19 00-2127	EA			6" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,386.20	477.56
				<i>For Class 52 Rating, Deduct</i>	-402.89	
				<i>For Class 54 Rating, Add</i>	558.08	
				<i>For Class 55 Rating, Add</i>	834.13	
				<i>For Class 56 Rating, Add</i>	1,106.52	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2128	EA		6" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,506.11	482.47
			<i>For Class 52 Rating, Deduct</i>	-415.26	
			<i>For Class 54 Rating, Add</i>	575.04	
			<i>For Class 55 Rating, Add</i>	859.39	
			<i>For Class 56 Rating, Add</i>	1,139.97	
40 05 19 00-2129	EA		6" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,626.03	487.40
			<i>For Class 52 Rating, Deduct</i>	-427.63	
			<i>For Class 54 Rating, Add</i>	591.99	
			<i>For Class 55 Rating, Add</i>	884.65	
			<i>For Class 56 Rating, Add</i>	1,173.41	
40 05 19 00-2130	EA		6" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,745.96	492.32
			<i>For Class 52 Rating, Deduct</i>	-440.00	
			<i>For Class 54 Rating, Add</i>	608.95	
			<i>For Class 55 Rating, Add</i>	909.91	
			<i>For Class 56 Rating, Add</i>	1,206.86	
40 05 19 00-2131	EA		6" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,865.88	497.25
			<i>For Class 52 Rating, Deduct</i>	-452.37	
			<i>For Class 54 Rating, Add</i>	625.91	
			<i>For Class 55 Rating, Add</i>	935.16	
			<i>For Class 56 Rating, Add</i>	1,240.30	
40 05 19 00-2132	EA		6" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,985.80	502.17
			<i>For Class 52 Rating, Deduct</i>	-464.74	
			<i>For Class 54 Rating, Add</i>	642.87	
			<i>For Class 55 Rating, Add</i>	960.42	
			<i>For Class 56 Rating, Add</i>	1,273.75	
40 05 19 00-2133	EA		6" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,105.72	507.09
			<i>For Class 52 Rating, Deduct</i>	-477.11	
			<i>For Class 54 Rating, Add</i>	659.83	
			<i>For Class 55 Rating, Add</i>	985.68	
			<i>For Class 56 Rating, Add</i>	1,307.19	
40 05 19 00-2134	EA		6" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,225.64	512.02
			<i>For Class 52 Rating, Deduct</i>	-489.48	
			<i>For Class 54 Rating, Add</i>	676.79	
			<i>For Class 55 Rating, Add</i>	1,010.94	
			<i>For Class 56 Rating, Add</i>	1,340.64	
40 05 19 00-2135	EA		6" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,345.56	516.94
			<i>For Class 52 Rating, Deduct</i>	-501.86	
			<i>For Class 54 Rating, Add</i>	693.75	
			<i>For Class 55 Rating, Add</i>	1,036.20	
			<i>For Class 56 Rating, Add</i>	1,374.08	
40 05 19 00-2136	EA		6" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,465.48	521.86
			<i>For Class 52 Rating, Deduct</i>	-514.23	
			<i>For Class 54 Rating, Add</i>	710.71	
			<i>For Class 55 Rating, Add</i>	1,061.45	
			<i>For Class 56 Rating, Add</i>	1,407.53	
40 05 19 00-2137	EA		6" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,585.40	526.79
			<i>For Class 52 Rating, Deduct</i>	-526.60	
			<i>For Class 54 Rating, Add</i>	727.66	
			<i>For Class 55 Rating, Add</i>	1,086.71	
			<i>For Class 56 Rating, Add</i>	1,440.97	
40 05 19 00-2138	EA		6" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,705.32	531.71
			<i>For Class 52 Rating, Deduct</i>	-538.97	
			<i>For Class 54 Rating, Add</i>	744.62	
			<i>For Class 55 Rating, Add</i>	1,111.97	
			<i>For Class 56 Rating, Add</i>	1,474.41	
40 05 19 00-2139	EA		6" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,825.24	536.63
			<i>For Class 52 Rating, Deduct</i>	-551.34	
			<i>For Class 54 Rating, Add</i>	761.58	
			<i>For Class 55 Rating, Add</i>	1,137.23	
			<i>For Class 56 Rating, Add</i>	1,507.86	
40 05 19 00-2140	EA		6" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,945.15	541.55
			<i>For Class 52 Rating, Deduct</i>	-563.71	
			<i>For Class 54 Rating, Add</i>	778.54	
			<i>For Class 55 Rating, Add</i>	1,162.48	
			<i>For Class 56 Rating, Add</i>	1,541.30	

40 05 19 00-2141 8" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2060)



<b>Process Interconnections</b>		<b>40</b>
<b>Common Work Results For Process Interconnections</b>		<b>40 05</b>
<b>Ductile Iron Process Pipe</b>		<b>40 05 19</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2142	EA		8" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,915.67	452.94
			For Class 52 Rating, Deduct	-135.23	
			For Class 54 Rating, Add	192.65	
			For Class 55 Rating, Add	290.63	
			For Class 56 Rating, Add	387.38	
40 05 19 00-2143	EA		8" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,068.81	457.86
			For Class 52 Rating, Deduct	-151.26	
			For Class 54 Rating, Add	214.59	
			For Class 55 Rating, Add	323.29	
			For Class 56 Rating, Add	430.62	
40 05 19 00-2144	EA		8" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,221.95	462.79
			For Class 52 Rating, Deduct	-167.28	
			For Class 54 Rating, Add	236.53	
			For Class 55 Rating, Add	355.96	
			For Class 56 Rating, Add	473.87	
40 05 19 00-2145	EA		8" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,375.11	467.70
			For Class 52 Rating, Deduct	-183.31	
			For Class 54 Rating, Add	258.47	
			For Class 55 Rating, Add	388.63	
			For Class 56 Rating, Add	517.12	
40 05 19 00-2146	EA		8" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,528.25	472.63
			For Class 52 Rating, Deduct	-199.34	
			For Class 54 Rating, Add	280.42	
			For Class 55 Rating, Add	421.30	
			For Class 56 Rating, Add	560.36	
40 05 19 00-2147	EA		8" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,681.40	477.56
			For Class 52 Rating, Deduct	-215.36	
			For Class 54 Rating, Add	302.36	
			For Class 55 Rating, Add	453.96	
			For Class 56 Rating, Add	603.61	
40 05 19 00-2148	EA		8" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,834.54	482.47
			For Class 52 Rating, Deduct	-231.39	
			For Class 54 Rating, Add	324.30	
			For Class 55 Rating, Add	486.63	
			For Class 56 Rating, Add	646.86	
40 05 19 00-2149	EA		8" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,987.69	487.40
			For Class 52 Rating, Deduct	-247.41	
			For Class 54 Rating, Add	346.24	
			For Class 55 Rating, Add	519.30	
			For Class 56 Rating, Add	690.10	
40 05 19 00-2150	EA		8" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,140.85	492.32
			For Class 52 Rating, Deduct	-263.44	
			For Class 54 Rating, Add	368.19	
			For Class 55 Rating, Add	551.97	
			For Class 56 Rating, Add	733.35	
40 05 19 00-2151	EA		8" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,293.98	497.25
			For Class 52 Rating, Deduct	-279.46	
			For Class 54 Rating, Add	390.13	
			For Class 55 Rating, Add	584.63	
			For Class 56 Rating, Add	776.59	
40 05 19 00-2152	EA		8" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,447.13	502.17
			For Class 52 Rating, Deduct	-295.49	
			For Class 54 Rating, Add	412.07	
			For Class 55 Rating, Add	617.30	
			For Class 56 Rating, Add	819.84	
40 05 19 00-2153	EA		8" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,600.28	507.09
			For Class 52 Rating, Deduct	-311.52	
			For Class 54 Rating, Add	434.01	
			For Class 55 Rating, Add	649.97	
			For Class 56 Rating, Add	863.09	
40 05 19 00-2154	EA		8" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,753.43	512.02
			For Class 52 Rating, Deduct	-327.54	
			For Class 54 Rating, Add	455.96	
			For Class 55 Rating, Add	682.63	
			For Class 56 Rating, Add	906.33	
40 05 19 00-2155	EA		8" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,906.57	516.94
			For Class 52 Rating, Deduct	-343.57	
			For Class 54 Rating, Add	477.90	
			For Class 55 Rating, Add	715.30	
			For Class 56 Rating, Add	949.58	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2156	EA		8" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,059.72	521.86
			<i>For Class 52 Rating, Deduct</i>	-359.59	
			<i>For Class 54 Rating, Add</i>	499.84	
			<i>For Class 55 Rating, Add</i>	747.97	
			<i>For Class 56 Rating, Add</i>	992.83	
40 05 19 00-2157	EA		8" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,212.87	526.79
			<i>For Class 52 Rating, Deduct</i>	-375.62	
			<i>For Class 54 Rating, Add</i>	521.78	
			<i>For Class 55 Rating, Add</i>	780.64	
			<i>For Class 56 Rating, Add</i>	1,036.07	
40 05 19 00-2158	EA		8" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,366.02	531.71
			<i>For Class 52 Rating, Deduct</i>	-391.64	
			<i>For Class 54 Rating, Add</i>	543.73	
			<i>For Class 55 Rating, Add</i>	813.30	
			<i>For Class 56 Rating, Add</i>	1,079.32	
40 05 19 00-2159	EA		8" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,519.16	536.63
			<i>For Class 52 Rating, Deduct</i>	-407.67	
			<i>For Class 54 Rating, Add</i>	565.67	
			<i>For Class 55 Rating, Add</i>	845.97	
			<i>For Class 56 Rating, Add</i>	1,122.56	
40 05 19 00-2160	EA		8" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,672.30	541.55
			<i>For Class 52 Rating, Deduct</i>	-423.69	
			<i>For Class 54 Rating, Add</i>	587.61	
			<i>For Class 55 Rating, Add</i>	878.64	
			<i>For Class 56 Rating, Add</i>	1,165.81	
40 05 19 00-2161	EA		8" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,825.46	546.48
			<i>For Class 52 Rating, Deduct</i>	-439.72	
			<i>For Class 54 Rating, Add</i>	609.56	
			<i>For Class 55 Rating, Add</i>	911.31	
			<i>For Class 56 Rating, Add</i>	1,209.06	
40 05 19 00-2162	EA		8" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,978.60	551.40
			<i>For Class 52 Rating, Deduct</i>	-455.75	
			<i>For Class 54 Rating, Add</i>	631.50	
			<i>For Class 55 Rating, Add</i>	943.97	
			<i>For Class 56 Rating, Add</i>	1,252.31	
40 05 19 00-2163	EA		8" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,131.75	556.32
			<i>For Class 52 Rating, Deduct</i>	-471.77	
			<i>For Class 54 Rating, Add</i>	653.44	
			<i>For Class 55 Rating, Add</i>	976.64	
			<i>For Class 56 Rating, Add</i>	1,295.55	
40 05 19 00-2164	EA		8" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,284.90	561.25
			<i>For Class 52 Rating, Deduct</i>	-487.80	
			<i>For Class 54 Rating, Add</i>	675.38	
			<i>For Class 55 Rating, Add</i>	1,009.31	
			<i>For Class 56 Rating, Add</i>	1,338.80	
40 05 19 00-2165	EA		8" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,438.04	566.17
			<i>For Class 52 Rating, Deduct</i>	-503.82	
			<i>For Class 54 Rating, Add</i>	697.33	
			<i>For Class 55 Rating, Add</i>	1,041.97	
			<i>For Class 56 Rating, Add</i>	1,382.04	
40 05 19 00-2166	EA		8" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,591.20	571.10
			<i>For Class 52 Rating, Deduct</i>	-519.85	
			<i>For Class 54 Rating, Add</i>	719.27	
			<i>For Class 55 Rating, Add</i>	1,074.64	
			<i>For Class 56 Rating, Add</i>	1,425.29	
40 05 19 00-2167	EA		8" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,744.33	576.01
			<i>For Class 52 Rating, Deduct</i>	-535.87	
			<i>For Class 54 Rating, Add</i>	741.21	
			<i>For Class 55 Rating, Add</i>	1,107.31	
			<i>For Class 56 Rating, Add</i>	1,468.54	
40 05 19 00-2168	EA		8" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,897.48	580.94
			<i>For Class 52 Rating, Deduct</i>	-551.90	
			<i>For Class 54 Rating, Add</i>	763.15	
			<i>For Class 55 Rating, Add</i>	1,139.98	
			<i>For Class 56 Rating, Add</i>	1,511.78	
40 05 19 00-2169	EA		8" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,050.63	585.87
			<i>For Class 52 Rating, Deduct</i>	-567.93	
			<i>For Class 54 Rating, Add</i>	785.10	
			<i>For Class 55 Rating, Add</i>	1,172.64	
			<i>For Class 56 Rating, Add</i>	1,555.03	





Process Interconnections	40
Common Work Results For Process Interconnections 40 05	
Ductile Iron Process Pipe 40 05 19	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2170 EA 8" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,203.78	590.78
For Class 52 Rating, Deduct	-583.95	
For Class 54 Rating, Add	807.04	
For Class 55 Rating, Add	1,205.31	
For Class 56 Rating, Add	1,598.28	
40 05 19 00-2171 EA 8" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,356.92	595.71
For Class 52 Rating, Deduct	-599.98	
For Class 54 Rating, Add	828.98	
For Class 55 Rating, Add	1,237.98	
For Class 56 Rating, Add	1,641.52	
40 05 19 00-2172 EA 8" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,510.07	600.63
For Class 52 Rating, Deduct	-616.00	
For Class 54 Rating, Add	850.92	
For Class 55 Rating, Add	1,270.65	
For Class 56 Rating, Add	1,684.77	
40 05 19 00-2173 EA 8" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,663.22	605.56
For Class 52 Rating, Deduct	-632.03	
For Class 54 Rating, Add	872.87	
For Class 55 Rating, Add	1,303.31	
For Class 56 Rating, Add	1,728.01	
40 05 19 00-2174 EA 8" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,816.37	610.48
For Class 52 Rating, Deduct	-648.05	
For Class 54 Rating, Add	894.81	
For Class 55 Rating, Add	1,335.98	
For Class 56 Rating, Add	1,771.26	
40 05 19 00-2175 EA 8" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,969.51	615.40
For Class 52 Rating, Deduct	-664.08	
For Class 54 Rating, Add	916.75	
For Class 55 Rating, Add	1,368.65	
For Class 56 Rating, Add	1,814.51	
40 05 19 00-2176 EA 8" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,122.66	620.33
For Class 52 Rating, Deduct	-680.10	
For Class 54 Rating, Add	938.69	
For Class 55 Rating, Add	1,401.32	
For Class 56 Rating, Add	1,857.75	
40 05 19 00-2177 EA 8" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,275.81	625.25
For Class 52 Rating, Deduct	-696.13	
For Class 54 Rating, Add	960.64	
For Class 55 Rating, Add	1,433.98	
For Class 56 Rating, Add	1,901.00	
40 05 19 00-2178 EA 8" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,428.95	630.17
For Class 52 Rating, Deduct	-712.16	
For Class 54 Rating, Add	982.58	
For Class 55 Rating, Add	1,466.65	
For Class 56 Rating, Add	1,944.25	
40 05 19 00-2179 EA 8" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,582.10	635.10
For Class 52 Rating, Deduct	-728.18	
For Class 54 Rating, Add	1,004.52	
For Class 55 Rating, Add	1,499.32	
For Class 56 Rating, Add	1,987.49	
40 05 19 00-2180 EA 8" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,735.25	640.02
For Class 52 Rating, Deduct	-744.21	
For Class 54 Rating, Add	1,026.46	
For Class 55 Rating, Add	1,531.98	
For Class 56 Rating, Add	2,030.74	
<b>40 05 19 00-2181 10" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b>		
<small>(40 05 19 00-2060)</small>		
40 05 19 00-2182 EA 10" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,409.90	551.40
For Class 52 Rating, Deduct	-173.19	
For Class 54 Rating, Add	246.19	
For Class 55 Rating, Add	371.15	
For Class 56 Rating, Add	494.54	
40 05 19 00-2183 EA 10" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,606.50	556.32
For Class 52 Rating, Deduct	-193.99	
For Class 54 Rating, Add	274.65	
For Class 55 Rating, Add	413.51	
For Class 56 Rating, Add	550.60	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2184	EA		10" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,803.10	561.25
			<i>For Class 52 Rating, Deduct</i>	-214.80	
			<i>For Class 54 Rating, Add</i>	303.11	
			<i>For Class 55 Rating, Add</i>	455.87	
			<i>For Class 56 Rating, Add</i>	606.67	
40 05 19 00-2185	EA		10" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	2,999.69	566.17
			<i>For Class 52 Rating, Deduct</i>	-235.60	
			<i>For Class 54 Rating, Add</i>	331.57	
			<i>For Class 55 Rating, Add</i>	498.22	
			<i>For Class 56 Rating, Add</i>	662.73	
40 05 19 00-2186	EA		10" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,196.30	571.10
			<i>For Class 52 Rating, Deduct</i>	-256.41	
			<i>For Class 54 Rating, Add</i>	360.03	
			<i>For Class 55 Rating, Add</i>	540.58	
			<i>For Class 56 Rating, Add</i>	718.80	
40 05 19 00-2187	EA		10" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,392.89	576.01
			<i>For Class 52 Rating, Deduct</i>	-277.22	
			<i>For Class 54 Rating, Add</i>	388.49	
			<i>For Class 55 Rating, Add</i>	582.94	
			<i>For Class 56 Rating, Add</i>	774.86	
40 05 19 00-2188	EA		10" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,589.49	580.94
			<i>For Class 52 Rating, Deduct</i>	-298.02	
			<i>For Class 54 Rating, Add</i>	416.95	
			<i>For Class 55 Rating, Add</i>	625.29	
			<i>For Class 56 Rating, Add</i>	830.93	
40 05 19 00-2189	EA		10" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,786.08	585.87
			<i>For Class 52 Rating, Deduct</i>	-318.83	
			<i>For Class 54 Rating, Add</i>	445.41	
			<i>For Class 55 Rating, Add</i>	667.65	
			<i>For Class 56 Rating, Add</i>	886.99	
40 05 19 00-2190	EA		10" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	3,982.68	590.78
			<i>For Class 52 Rating, Deduct</i>	-339.63	
			<i>For Class 54 Rating, Add</i>	473.87	
			<i>For Class 55 Rating, Add</i>	710.01	
			<i>For Class 56 Rating, Add</i>	943.05	
40 05 19 00-2191	EA		10" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,179.28	595.71
			<i>For Class 52 Rating, Deduct</i>	-360.44	
			<i>For Class 54 Rating, Add</i>	502.33	
			<i>For Class 55 Rating, Add</i>	752.36	
			<i>For Class 56 Rating, Add</i>	999.12	
40 05 19 00-2192	EA		10" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,375.88	600.63
			<i>For Class 52 Rating, Deduct</i>	-381.24	
			<i>For Class 54 Rating, Add</i>	530.80	
			<i>For Class 55 Rating, Add</i>	794.72	
			<i>For Class 56 Rating, Add</i>	1,055.18	
40 05 19 00-2193	EA		10" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,572.48	605.56
			<i>For Class 52 Rating, Deduct</i>	-402.05	
			<i>For Class 54 Rating, Add</i>	559.26	
			<i>For Class 55 Rating, Add</i>	837.08	
			<i>For Class 56 Rating, Add</i>	1,111.25	
40 05 19 00-2194	EA		10" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,769.07	610.48
			<i>For Class 52 Rating, Deduct</i>	-422.85	
			<i>For Class 54 Rating, Add</i>	587.71	
			<i>For Class 55 Rating, Add</i>	879.43	
			<i>For Class 56 Rating, Add</i>	1,167.31	
40 05 19 00-2195	EA		10" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,965.67	615.40
			<i>For Class 52 Rating, Deduct</i>	-443.66	
			<i>For Class 54 Rating, Add</i>	616.18	
			<i>For Class 55 Rating, Add</i>	921.79	
			<i>For Class 56 Rating, Add</i>	1,223.37	
40 05 19 00-2196	EA		10" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,162.27	620.33
			<i>For Class 52 Rating, Deduct</i>	-464.46	
			<i>For Class 54 Rating, Add</i>	644.64	
			<i>For Class 55 Rating, Add</i>	964.15	
			<i>For Class 56 Rating, Add</i>	1,279.44	
40 05 19 00-2197	EA		10" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,358.87	625.25
			<i>For Class 52 Rating, Deduct</i>	-485.27	
			<i>For Class 54 Rating, Add</i>	673.10	
			<i>For Class 55 Rating, Add</i>	1,006.51	
			<i>For Class 56 Rating, Add</i>	1,335.50	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2198 EA 10" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,555.46	630.17
<i>For Class 52 Rating, Deduct</i>	-506.07	
<i>For Class 54 Rating, Add</i>	701.56	
<i>For Class 55 Rating, Add</i>	1,048.86	
<i>For Class 56 Rating, Add</i>	1,391.57	
40 05 19 00-2199 EA 10" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,752.06	635.10
<i>For Class 52 Rating, Deduct</i>	-526.88	
<i>For Class 54 Rating, Add</i>	730.02	
<i>For Class 55 Rating, Add</i>	1,091.22	
<i>For Class 56 Rating, Add</i>	1,447.63	
40 05 19 00-2200 EA 10" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,948.66	640.02
<i>For Class 52 Rating, Deduct</i>	-547.68	
<i>For Class 54 Rating, Add</i>	758.48	
<i>For Class 55 Rating, Add</i>	1,133.57	
<i>For Class 56 Rating, Add</i>	1,503.69	
40 05 19 00-2201 EA 10" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,145.25	644.94
<i>For Class 52 Rating, Deduct</i>	-568.49	
<i>For Class 54 Rating, Add</i>	786.94	
<i>For Class 55 Rating, Add</i>	1,175.93	
<i>For Class 56 Rating, Add</i>	1,559.76	
40 05 19 00-2202 EA 10" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,341.86	649.86
<i>For Class 52 Rating, Deduct</i>	-589.29	
<i>For Class 54 Rating, Add</i>	815.40	
<i>For Class 55 Rating, Add</i>	1,218.29	
<i>For Class 56 Rating, Add</i>	1,615.82	
40 05 19 00-2203 EA 10" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,538.45	654.79
<i>For Class 52 Rating, Deduct</i>	-610.10	
<i>For Class 54 Rating, Add</i>	843.86	
<i>For Class 55 Rating, Add</i>	1,260.65	
<i>For Class 56 Rating, Add</i>	1,671.89	
40 05 19 00-2204 EA 10" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,735.05	659.72
<i>For Class 52 Rating, Deduct</i>	-630.90	
<i>For Class 54 Rating, Add</i>	872.32	
<i>For Class 55 Rating, Add</i>	1,303.00	
<i>For Class 56 Rating, Add</i>	1,727.95	
40 05 19 00-2205 EA 10" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,931.64	664.63
<i>For Class 52 Rating, Deduct</i>	-651.71	
<i>For Class 54 Rating, Add</i>	900.78	
<i>For Class 55 Rating, Add</i>	1,345.36	
<i>For Class 56 Rating, Add</i>	1,784.02	
40 05 19 00-2206 EA 10" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,128.24	669.56
<i>For Class 52 Rating, Deduct</i>	-672.51	
<i>For Class 54 Rating, Add</i>	929.24	
<i>For Class 55 Rating, Add</i>	1,387.72	
<i>For Class 56 Rating, Add</i>	1,840.08	
40 05 19 00-2207 EA 10" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,324.85	674.48
<i>For Class 52 Rating, Deduct</i>	-693.32	
<i>For Class 54 Rating, Add</i>	957.70	
<i>For Class 55 Rating, Add</i>	1,430.07	
<i>For Class 56 Rating, Add</i>	1,896.15	
40 05 19 00-2208 EA 10" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,521.44	679.41
<i>For Class 52 Rating, Deduct</i>	-714.12	
<i>For Class 54 Rating, Add</i>	986.16	
<i>For Class 55 Rating, Add</i>	1,472.43	
<i>For Class 56 Rating, Add</i>	1,952.21	
40 05 19 00-2209 EA 10" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,718.03	684.32
<i>For Class 52 Rating, Deduct</i>	-734.93	
<i>For Class 54 Rating, Add</i>	1,014.62	
<i>For Class 55 Rating, Add</i>	1,514.79	
<i>For Class 56 Rating, Add</i>	2,008.27	
40 05 19 00-2210 EA 10" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,914.63	689.25
<i>For Class 52 Rating, Deduct</i>	-755.73	
<i>For Class 54 Rating, Add</i>	1,043.08	
<i>For Class 55 Rating, Add</i>	1,557.14	
<i>For Class 56 Rating, Add</i>	2,064.34	
40 05 19 00-2211 EA 10" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,111.23	694.18
<i>For Class 52 Rating, Deduct</i>	-776.54	
<i>For Class 54 Rating, Add</i>	1,071.54	
<i>For Class 55 Rating, Add</i>	1,599.50	
<i>For Class 56 Rating, Add</i>	2,120.40	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2212	EA		10" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,307.83	699.10
			<i>For Class 52 Rating, Deduct</i> .....	-797.34	
			<i>For Class 54 Rating, Add</i> .....	1,100.00	
			<i>For Class 55 Rating, Add</i> .....	1,641.86	
			<i>For Class 56 Rating, Add</i> .....	2,176.47	
40 05 19 00-2213	EA		10" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,504.43	704.02
			<i>For Class 52 Rating, Deduct</i> .....	-818.15	
			<i>For Class 54 Rating, Add</i> .....	1,128.46	
			<i>For Class 55 Rating, Add</i> .....	1,684.21	
			<i>For Class 56 Rating, Add</i> .....	2,232.53	
40 05 19 00-2214	EA		10" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,701.02	708.94
			<i>For Class 52 Rating, Deduct</i> .....	-838.96	
			<i>For Class 54 Rating, Add</i> .....	1,156.92	
			<i>For Class 55 Rating, Add</i> .....	1,726.57	
			<i>For Class 56 Rating, Add</i> .....	2,288.60	
40 05 19 00-2215	EA		10" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,897.62	713.87
			<i>For Class 52 Rating, Deduct</i> .....	-859.76	
			<i>For Class 54 Rating, Add</i> .....	1,185.38	
			<i>For Class 55 Rating, Add</i> .....	1,768.93	
			<i>For Class 56 Rating, Add</i> .....	2,344.66	
40 05 19 00-2216	EA		10" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,094.22	718.79
			<i>For Class 52 Rating, Deduct</i> .....	-880.57	
			<i>For Class 54 Rating, Add</i> .....	1,213.84	
			<i>For Class 55 Rating, Add</i> .....	1,811.28	
			<i>For Class 56 Rating, Add</i> .....	2,400.72	
40 05 19 00-2217	EA		10" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,290.81	723.71
			<i>For Class 52 Rating, Deduct</i> .....	-901.37	
			<i>For Class 54 Rating, Add</i> .....	1,242.30	
			<i>For Class 55 Rating, Add</i> .....	1,853.64	
			<i>For Class 56 Rating, Add</i> .....	2,456.79	
40 05 19 00-2218	EA		10" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,487.42	728.64
			<i>For Class 52 Rating, Deduct</i> .....	-922.18	
			<i>For Class 54 Rating, Add</i> .....	1,270.76	
			<i>For Class 55 Rating, Add</i> .....	1,896.00	
			<i>For Class 56 Rating, Add</i> .....	2,512.85	
40 05 19 00-2219	EA		10" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,684.01	733.56
			<i>For Class 52 Rating, Deduct</i> .....	-942.98	
			<i>For Class 54 Rating, Add</i> .....	1,299.22	
			<i>For Class 55 Rating, Add</i> .....	1,938.36	
			<i>For Class 56 Rating, Add</i> .....	2,568.92	
40 05 19 00-2220	EA		10" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,880.61	738.48
			<i>For Class 52 Rating, Deduct</i> .....	-963.79	
			<i>For Class 54 Rating, Add</i> .....	1,327.68	
			<i>For Class 55 Rating, Add</i> .....	1,980.71	
			<i>For Class 56 Rating, Add</i> .....	2,624.98	

**40 05 19 00-2221 12" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe** (40 05 19 00-2060)

40 05 19 00-2222	EA		12" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,140.17	689.25
			<i>For Class 52 Rating, Deduct</i> .....	-230.54	
			<i>For Class 54 Rating, Add</i> .....	326.91	
			<i>For Class 55 Rating, Add</i> .....	492.44	
			<i>For Class 56 Rating, Add</i> .....	655.87	
40 05 19 00-2223	EA		12" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,382.78	694.18
			<i>For Class 52 Rating, Deduct</i> .....	-256.41	
			<i>For Class 54 Rating, Add</i> .....	362.27	
			<i>For Class 55 Rating, Add</i> .....	545.06	
			<i>For Class 56 Rating, Add</i> .....	725.51	
40 05 19 00-2224	EA		12" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,625.38	699.10
			<i>For Class 52 Rating, Deduct</i> .....	-282.28	
			<i>For Class 54 Rating, Add</i> .....	397.63	
			<i>For Class 55 Rating, Add</i> .....	597.67	
			<i>For Class 56 Rating, Add</i> .....	795.14	
40 05 19 00-2225	EA		12" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,867.99	704.02
			<i>For Class 52 Rating, Deduct</i> .....	-308.14	
			<i>For Class 54 Rating, Add</i> .....	432.99	
			<i>For Class 55 Rating, Add</i> .....	650.29	
			<i>For Class 56 Rating, Add</i> .....	864.78	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2226 EA 12" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,110.58	708.94
<i>For Class 52 Rating, Deduct</i>	-334.01	
<i>For Class 54 Rating, Add</i>	468.35	
<i>For Class 55 Rating, Add</i>	702.90	
<i>For Class 56 Rating, Add</i>	934.42	
40 05 19 00-2227 EA 12" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,353.20	713.87
<i>For Class 52 Rating, Deduct</i>	-359.87	
<i>For Class 54 Rating, Add</i>	503.72	
<i>For Class 55 Rating, Add</i>	755.52	
<i>For Class 56 Rating, Add</i>	1,004.05	
40 05 19 00-2228 EA 12" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,595.80	718.79
<i>For Class 52 Rating, Deduct</i>	-385.74	
<i>For Class 54 Rating, Add</i>	539.08	
<i>For Class 55 Rating, Add</i>	808.14	
<i>For Class 56 Rating, Add</i>	1,073.69	
40 05 19 00-2229 EA 12" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,838.40	723.71
<i>For Class 52 Rating, Deduct</i>	-411.61	
<i>For Class 54 Rating, Add</i>	574.44	
<i>For Class 55 Rating, Add</i>	860.75	
<i>For Class 56 Rating, Add</i>	1,143.33	
40 05 19 00-2230 EA 12" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,081.01	728.64
<i>For Class 52 Rating, Deduct</i>	-437.47	
<i>For Class 54 Rating, Add</i>	609.80	
<i>For Class 55 Rating, Add</i>	913.37	
<i>For Class 56 Rating, Add</i>	1,212.96	
40 05 19 00-2231 EA 12" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,323.61	733.56
<i>For Class 52 Rating, Deduct</i>	-463.34	
<i>For Class 54 Rating, Add</i>	645.16	
<i>For Class 55 Rating, Add</i>	965.99	
<i>For Class 56 Rating, Add</i>	1,282.60	
40 05 19 00-2232 EA 12" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,566.22	738.48
<i>For Class 52 Rating, Deduct</i>	-489.20	
<i>For Class 54 Rating, Add</i>	680.52	
<i>For Class 55 Rating, Add</i>	1,018.60	
<i>For Class 56 Rating, Add</i>	1,352.23	
40 05 19 00-2233 EA 12" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,808.82	743.41
<i>For Class 52 Rating, Deduct</i>	-515.07	
<i>For Class 54 Rating, Add</i>	715.88	
<i>For Class 55 Rating, Add</i>	1,071.22	
<i>For Class 56 Rating, Add</i>	1,421.87	
40 05 19 00-2234 EA 12" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,051.42	748.33
<i>For Class 52 Rating, Deduct</i>	-540.93	
<i>For Class 54 Rating, Add</i>	751.24	
<i>For Class 55 Rating, Add</i>	1,123.83	
<i>For Class 56 Rating, Add</i>	1,491.51	
40 05 19 00-2235 EA 12" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,294.03	753.26
<i>For Class 52 Rating, Deduct</i>	-566.80	
<i>For Class 54 Rating, Add</i>	786.61	
<i>For Class 55 Rating, Add</i>	1,176.45	
<i>For Class 56 Rating, Add</i>	1,561.14	
40 05 19 00-2236 EA 12" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,536.63	758.17
<i>For Class 52 Rating, Deduct</i>	-592.67	
<i>For Class 54 Rating, Add</i>	821.97	
<i>For Class 55 Rating, Add</i>	1,229.07	
<i>For Class 56 Rating, Add</i>	1,630.78	
40 05 19 00-2237 EA 12" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,779.23	763.10
<i>For Class 52 Rating, Deduct</i>	-618.53	
<i>For Class 54 Rating, Add</i>	857.33	
<i>For Class 55 Rating, Add</i>	1,281.68	
<i>For Class 56 Rating, Add</i>	1,700.41	
40 05 19 00-2238 EA 12" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,021.84	768.03
<i>For Class 52 Rating, Deduct</i>	-644.40	
<i>For Class 54 Rating, Add</i>	892.69	
<i>For Class 55 Rating, Add</i>	1,334.30	
<i>For Class 56 Rating, Add</i>	1,770.05	
40 05 19 00-2239 EA 12" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,264.44	772.94
<i>For Class 52 Rating, Deduct</i>	-670.26	
<i>For Class 54 Rating, Add</i>	928.05	
<i>For Class 55 Rating, Add</i>	1,386.92	
<i>For Class 56 Rating, Add</i>	1,839.69	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2240	EA		12" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,507.05	777.87
			<i>For Class 52 Rating, Deduct</i> .....	-696.13	
			<i>For Class 54 Rating, Add</i> .....	963.41	
			<i>For Class 55 Rating, Add</i> .....	1,439.53	
			<i>For Class 56 Rating, Add</i> .....	1,909.32	
40 05 19 00-2241	EA		12" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,749.65	782.79
			<i>For Class 52 Rating, Deduct</i> .....	-722.00	
			<i>For Class 54 Rating, Add</i> .....	998.77	
			<i>For Class 55 Rating, Add</i> .....	1,492.15	
			<i>For Class 56 Rating, Add</i> .....	1,978.96	
40 05 19 00-2242	EA		12" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,992.26	787.72
			<i>For Class 52 Rating, Deduct</i> .....	-747.86	
			<i>For Class 54 Rating, Add</i> .....	1,034.13	
			<i>For Class 55 Rating, Add</i> .....	1,544.77	
			<i>For Class 56 Rating, Add</i> .....	2,048.60	
40 05 19 00-2243	EA		12" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,234.86	792.64
			<i>For Class 52 Rating, Deduct</i> .....	-773.73	
			<i>For Class 54 Rating, Add</i> .....	1,069.50	
			<i>For Class 55 Rating, Add</i> .....	1,597.38	
			<i>For Class 56 Rating, Add</i> .....	2,118.23	
40 05 19 00-2244	EA		12" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,477.47	797.56
			<i>For Class 52 Rating, Deduct</i> .....	-799.59	
			<i>For Class 54 Rating, Add</i> .....	1,104.86	
			<i>For Class 55 Rating, Add</i> .....	1,650.00	
			<i>For Class 56 Rating, Add</i> .....	2,187.87	
40 05 19 00-2245	EA		12" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,720.06	802.49
			<i>For Class 52 Rating, Deduct</i> .....	-825.46	
			<i>For Class 54 Rating, Add</i> .....	1,140.22	
			<i>For Class 55 Rating, Add</i> .....	1,702.61	
			<i>For Class 56 Rating, Add</i> .....	2,257.50	
40 05 19 00-2246	EA		12" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,960.12	807.41
			<i>For Class 52 Rating, Deduct</i> .....	-851.04	
			<i>For Class 54 Rating, Add</i> .....	1,175.20	
			<i>For Class 55 Rating, Add</i> .....	1,754.66	
			<i>For Class 56 Rating, Add</i> .....	2,326.39	
40 05 19 00-2247	EA		12" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,205.27	812.33
			<i>For Class 52 Rating, Deduct</i> .....	-877.19	
			<i>For Class 54 Rating, Add</i> .....	1,210.94	
			<i>For Class 55 Rating, Add</i> .....	1,807.85	
			<i>For Class 56 Rating, Add</i> .....	2,396.78	
40 05 19 00-2248	EA		12" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,447.89	817.26
			<i>For Class 52 Rating, Deduct</i> .....	-903.06	
			<i>For Class 54 Rating, Add</i> .....	1,246.30	
			<i>For Class 55 Rating, Add</i> .....	1,860.46	
			<i>For Class 56 Rating, Add</i> .....	2,466.42	
40 05 19 00-2249	EA		12" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,690.49	822.18
			<i>For Class 52 Rating, Deduct</i> .....	-928.92	
			<i>For Class 54 Rating, Add</i> .....	1,281.66	
			<i>For Class 55 Rating, Add</i> .....	1,913.08	
			<i>For Class 56 Rating, Add</i> .....	2,536.05	
40 05 19 00-2250	EA		12" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,933.08	827.10
			<i>For Class 52 Rating, Deduct</i> .....	-954.79	
			<i>For Class 54 Rating, Add</i> .....	1,317.02	
			<i>For Class 55 Rating, Add</i> .....	1,965.69	
			<i>For Class 56 Rating, Add</i> .....	2,605.68	
40 05 19 00-2251	EA		12" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,175.70	832.02
			<i>For Class 52 Rating, Deduct</i> .....	-980.66	
			<i>For Class 54 Rating, Add</i> .....	1,352.39	
			<i>For Class 55 Rating, Add</i> .....	2,018.31	
			<i>For Class 56 Rating, Add</i> .....	2,675.32	
40 05 19 00-2252	EA		12" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,418.29	836.95
			<i>For Class 52 Rating, Deduct</i> .....	-1,006.52	
			<i>For Class 54 Rating, Add</i> .....	1,387.75	
			<i>For Class 55 Rating, Add</i> .....	2,070.93	
			<i>For Class 56 Rating, Add</i> .....	2,744.96	
40 05 19 00-2253	EA		12" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,660.90	841.87
			<i>For Class 52 Rating, Deduct</i> .....	-1,032.39	
			<i>For Class 54 Rating, Add</i> .....	1,423.11	
			<i>For Class 55 Rating, Add</i> .....	2,123.54	
			<i>For Class 56 Rating, Add</i> .....	2,814.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2254 EA 12" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,903.50	846.79
<i>For Class 52 Rating, Deduct</i>	-1,058.25	
<i>For Class 54 Rating, Add</i>	1,458.47	
<i>For Class 55 Rating, Add</i>	2,176.16	
<i>For Class 56 Rating, Add</i>	2,884.23	
40 05 19 00-2255 EA 12" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,146.11	851.72
<i>For Class 52 Rating, Deduct</i>	-1,084.12	
<i>For Class 54 Rating, Add</i>	1,493.83	
<i>For Class 55 Rating, Add</i>	2,228.78	
<i>For Class 56 Rating, Add</i>	2,953.87	
40 05 19 00-2256 EA 12" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,388.71	856.64
<i>For Class 52 Rating, Deduct</i>	-1,109.98	
<i>For Class 54 Rating, Add</i>	1,529.19	
<i>For Class 55 Rating, Add</i>	2,281.39	
<i>For Class 56 Rating, Add</i>	3,023.50	
40 05 19 00-2257 EA 12" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,631.32	861.57
<i>For Class 52 Rating, Deduct</i>	-1,135.85	
<i>For Class 54 Rating, Add</i>	1,564.55	
<i>For Class 55 Rating, Add</i>	2,334.01	
<i>For Class 56 Rating, Add</i>	3,093.14	
40 05 19 00-2258 EA 12" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,873.92	866.48
<i>For Class 52 Rating, Deduct</i>	-1,161.72	
<i>For Class 54 Rating, Add</i>	1,599.91	
<i>For Class 55 Rating, Add</i>	2,386.63	
<i>For Class 56 Rating, Add</i>	3,162.78	
40 05 19 00-2259 EA 12" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,116.53	871.41
<i>For Class 52 Rating, Deduct</i>	-1,187.58	
<i>For Class 54 Rating, Add</i>	1,635.28	
<i>For Class 55 Rating, Add</i>	2,439.24	
<i>For Class 56 Rating, Add</i>	3,232.41	
40 05 19 00-2260 EA 12" Flanged (FxF), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,359.13	876.34
<i>For Class 52 Rating, Deduct</i>	-1,213.45	
<i>For Class 54 Rating, Add</i>	1,670.64	
<i>For Class 55 Rating, Add</i>	2,491.86	
<i>For Class 56 Rating, Add</i>	3,302.05	
<b>40 05 19 00-2261 14" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small>		
40 05 19 00-2262 EA 14" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,169.48	827.10
<i>For Class 52 Rating, Deduct</i>	-320.79	
<i>For Class 54 Rating, Add</i>	452.48	
<i>For Class 55 Rating, Add</i>	680.41	
<i>For Class 56 Rating, Add</i>	905.42	
40 05 19 00-2263 EA 14" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,463.22	832.02
<i>For Class 52 Rating, Deduct</i>	-352.28	
<i>For Class 54 Rating, Add</i>	495.51	
<i>For Class 55 Rating, Add</i>	744.43	
<i>For Class 56 Rating, Add</i>	990.14	
40 05 19 00-2264 EA 14" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,756.93	836.95
<i>For Class 52 Rating, Deduct</i>	-383.77	
<i>For Class 54 Rating, Add</i>	538.54	
<i>For Class 55 Rating, Add</i>	808.44	
<i>For Class 56 Rating, Add</i>	1,074.86	
40 05 19 00-2265 EA 14" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,050.65	841.87
<i>For Class 52 Rating, Deduct</i>	-415.26	
<i>For Class 54 Rating, Add</i>	581.57	
<i>For Class 55 Rating, Add</i>	872.46	
<i>For Class 56 Rating, Add</i>	1,159.57	
40 05 19 00-2266 EA 14" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,344.38	846.79
<i>For Class 52 Rating, Deduct</i>	-446.75	
<i>For Class 54 Rating, Add</i>	624.60	
<i>For Class 55 Rating, Add</i>	936.48	
<i>For Class 56 Rating, Add</i>	1,244.29	
40 05 19 00-2267 EA 14" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,638.10	851.72
<i>For Class 52 Rating, Deduct</i>	-478.24	
<i>For Class 54 Rating, Add</i>	667.63	
<i>For Class 55 Rating, Add</i>	1,000.49	
<i>For Class 56 Rating, Add</i>	1,329.01	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2268	EA		14" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,931.82	856.64
			<i>For Class 52 Rating, Deduct</i> .....	-509.73	
			<i>For Class 54 Rating, Add</i> .....	710.66	
			<i>For Class 55 Rating, Add</i> .....	1,064.51	
			<i>For Class 56 Rating, Add</i> .....	1,413.72	
40 05 19 00-2269	EA		14" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,225.55	861.57
			<i>For Class 52 Rating, Deduct</i> .....	-541.22	
			<i>For Class 54 Rating, Add</i> .....	753.69	
			<i>For Class 55 Rating, Add</i> .....	1,128.52	
			<i>For Class 56 Rating, Add</i> .....	1,498.44	
40 05 19 00-2270	EA		14" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,519.27	866.48
			<i>For Class 52 Rating, Deduct</i> .....	-572.71	
			<i>For Class 54 Rating, Add</i> .....	796.72	
			<i>For Class 55 Rating, Add</i> .....	1,192.54	
			<i>For Class 56 Rating, Add</i> .....	1,583.15	
40 05 19 00-2271	EA		14" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,812.99	871.41
			<i>For Class 52 Rating, Deduct</i> .....	-604.19	
			<i>For Class 54 Rating, Add</i> .....	839.74	
			<i>For Class 55 Rating, Add</i> .....	1,256.55	
			<i>For Class 56 Rating, Add</i> .....	1,667.87	
40 05 19 00-2272	EA		14" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,106.72	876.34
			<i>For Class 52 Rating, Deduct</i> .....	-635.68	
			<i>For Class 54 Rating, Add</i> .....	882.77	
			<i>For Class 55 Rating, Add</i> .....	1,320.57	
			<i>For Class 56 Rating, Add</i> .....	1,752.59	
40 05 19 00-2273	EA		14" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,400.44	881.25
			<i>For Class 52 Rating, Deduct</i> .....	-667.17	
			<i>For Class 54 Rating, Add</i> .....	925.80	
			<i>For Class 55 Rating, Add</i> .....	1,384.59	
			<i>For Class 56 Rating, Add</i> .....	1,837.30	
40 05 19 00-2274	EA		14" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,694.16	886.18
			<i>For Class 52 Rating, Deduct</i> .....	-698.66	
			<i>For Class 54 Rating, Add</i> .....	968.83	
			<i>For Class 55 Rating, Add</i> .....	1,448.60	
			<i>For Class 56 Rating, Add</i> .....	1,922.02	
40 05 19 00-2275	EA		14" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,987.87	891.10
			<i>For Class 52 Rating, Deduct</i> .....	-730.15	
			<i>For Class 54 Rating, Add</i> .....	1,011.86	
			<i>For Class 55 Rating, Add</i> .....	1,512.62	
			<i>For Class 56 Rating, Add</i> .....	2,006.73	
40 05 19 00-2276	EA		14" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,281.61	896.03
			<i>For Class 52 Rating, Deduct</i> .....	-761.64	
			<i>For Class 54 Rating, Add</i> .....	1,054.89	
			<i>For Class 55 Rating, Add</i> .....	1,576.63	
			<i>For Class 56 Rating, Add</i> .....	2,091.45	
40 05 19 00-2277	EA		14" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,575.33	900.95
			<i>For Class 52 Rating, Deduct</i> .....	-793.13	
			<i>For Class 54 Rating, Add</i> .....	1,097.92	
			<i>For Class 55 Rating, Add</i> .....	1,640.65	
			<i>For Class 56 Rating, Add</i> .....	2,176.17	
40 05 19 00-2278	EA		14" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,869.04	905.87
			<i>For Class 52 Rating, Deduct</i> .....	-824.62	
			<i>For Class 54 Rating, Add</i> .....	1,140.95	
			<i>For Class 55 Rating, Add</i> .....	1,704.66	
			<i>For Class 56 Rating, Add</i> .....	2,260.88	
40 05 19 00-2279	EA		14" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,162.78	910.80
			<i>For Class 52 Rating, Deduct</i> .....	-856.11	
			<i>For Class 54 Rating, Add</i> .....	1,183.98	
			<i>For Class 55 Rating, Add</i> .....	1,768.68	
			<i>For Class 56 Rating, Add</i> .....	2,345.60	
40 05 19 00-2280	EA		14" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,456.49	915.72
			<i>For Class 52 Rating, Deduct</i> .....	-887.59	
			<i>For Class 54 Rating, Add</i> .....	1,227.01	
			<i>For Class 55 Rating, Add</i> .....	1,832.69	
			<i>For Class 56 Rating, Add</i> .....	2,430.32	
40 05 19 00-2281	EA		14" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,750.22	920.64
			<i>For Class 52 Rating, Deduct</i> .....	-919.08	
			<i>For Class 54 Rating, Add</i> .....	1,270.03	
			<i>For Class 55 Rating, Add</i> .....	1,896.71	
			<i>For Class 56 Rating, Add</i> .....	2,515.03	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2282 EA 14" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,043.94	925.57
<i>For Class 52 Rating, Deduct</i>	-950.57	
<i>For Class 54 Rating, Add</i>	1,313.06	
<i>For Class 55 Rating, Add</i>	1,960.73	
<i>For Class 56 Rating, Add</i>	2,599.75	
40 05 19 00-2283 EA 14" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,337.66	930.49
<i>For Class 52 Rating, Deduct</i>	-982.06	
<i>For Class 54 Rating, Add</i>	1,356.09	
<i>For Class 55 Rating, Add</i>	2,024.74	
<i>For Class 56 Rating, Add</i>	2,684.46	
40 05 19 00-2284 EA 14" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,631.39	935.41
<i>For Class 52 Rating, Deduct</i>	-1,013.55	
<i>For Class 54 Rating, Add</i>	1,399.12	
<i>For Class 55 Rating, Add</i>	2,088.76	
<i>For Class 56 Rating, Add</i>	2,769.18	
40 05 19 00-2285 EA 14" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,925.10	940.33
<i>For Class 52 Rating, Deduct</i>	-1,045.04	
<i>For Class 54 Rating, Add</i>	1,442.15	
<i>For Class 55 Rating, Add</i>	2,152.77	
<i>For Class 56 Rating, Add</i>	2,853.89	
40 05 19 00-2286 EA 14" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,218.83	945.26
<i>For Class 52 Rating, Deduct</i>	-1,076.53	
<i>For Class 54 Rating, Add</i>	1,485.18	
<i>For Class 55 Rating, Add</i>	2,216.79	
<i>For Class 56 Rating, Add</i>	2,938.61	
40 05 19 00-2287 EA 14" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,512.55	950.19
<i>For Class 52 Rating, Deduct</i>	-1,108.02	
<i>For Class 54 Rating, Add</i>	1,528.21	
<i>For Class 55 Rating, Add</i>	2,280.80	
<i>For Class 56 Rating, Add</i>	3,023.33	
40 05 19 00-2288 EA 14" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,806.27	955.10
<i>For Class 52 Rating, Deduct</i>	-1,139.51	
<i>For Class 54 Rating, Add</i>	1,571.24	
<i>For Class 55 Rating, Add</i>	2,344.82	
<i>For Class 56 Rating, Add</i>	3,108.04	
40 05 19 00-2289 EA 14" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,100.00	960.03
<i>For Class 52 Rating, Deduct</i>	-1,171.00	
<i>For Class 54 Rating, Add</i>	1,614.27	
<i>For Class 55 Rating, Add</i>	2,408.84	
<i>For Class 56 Rating, Add</i>	3,192.76	
40 05 19 00-2290 EA 14" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,393.72	964.95
<i>For Class 52 Rating, Deduct</i>	-1,202.48	
<i>For Class 54 Rating, Add</i>	1,657.30	
<i>For Class 55 Rating, Add</i>	2,472.85	
<i>For Class 56 Rating, Add</i>	3,277.48	
40 05 19 00-2291 EA 14" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,687.43	969.88
<i>For Class 52 Rating, Deduct</i>	-1,233.97	
<i>For Class 54 Rating, Add</i>	1,700.32	
<i>For Class 55 Rating, Add</i>	2,536.87	
<i>For Class 56 Rating, Add</i>	3,362.19	
40 05 19 00-2292 EA 14" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,981.17	974.80
<i>For Class 52 Rating, Deduct</i>	-1,265.46	
<i>For Class 54 Rating, Add</i>	1,743.35	
<i>For Class 55 Rating, Add</i>	2,600.88	
<i>For Class 56 Rating, Add</i>	3,446.91	
40 05 19 00-2293 EA 14" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,274.89	979.72
<i>For Class 52 Rating, Deduct</i>	-1,296.95	
<i>For Class 54 Rating, Add</i>	1,786.38	
<i>For Class 55 Rating, Add</i>	2,664.90	
<i>For Class 56 Rating, Add</i>	3,531.63	
40 05 19 00-2294 EA 14" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,568.60	984.65
<i>For Class 52 Rating, Deduct</i>	-1,328.44	
<i>For Class 54 Rating, Add</i>	1,829.41	
<i>For Class 55 Rating, Add</i>	2,728.91	
<i>For Class 56 Rating, Add</i>	3,616.34	
40 05 19 00-2295 EA 14" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,862.33	989.57
<i>For Class 52 Rating, Deduct</i>	-1,359.93	
<i>For Class 54 Rating, Add</i>	1,872.44	
<i>For Class 55 Rating, Add</i>	2,792.93	
<i>For Class 56 Rating, Add</i>	3,701.06	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2296	EA		14" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,156.05	994.49
			<i>For Class 52 Rating, Deduct</i> .....	-1,391.42	
			<i>For Class 54 Rating, Add</i> .....	1,915.47	
			<i>For Class 55 Rating, Add</i> .....	2,856.95	
			<i>For Class 56 Rating, Add</i> .....	3,785.77	
40 05 19 00-2297	EA		14" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,449.78	999.41
			<i>For Class 52 Rating, Deduct</i> .....	-1,422.91	
			<i>For Class 54 Rating, Add</i> .....	1,958.50	
			<i>For Class 55 Rating, Add</i> .....	2,920.96	
			<i>For Class 56 Rating, Add</i> .....	3,870.49	
40 05 19 00-2298	EA		14" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,743.49	1,004.34
			<i>For Class 52 Rating, Deduct</i> .....	-1,454.39	
			<i>For Class 54 Rating, Add</i> .....	2,001.53	
			<i>For Class 55 Rating, Add</i> .....	2,984.98	
			<i>For Class 56 Rating, Add</i> .....	3,955.20	
40 05 19 00-2299	EA		14" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	15,037.22	1,009.26
			<i>For Class 52 Rating, Deduct</i> .....	-1,485.88	
			<i>For Class 54 Rating, Add</i> .....	2,044.56	
			<i>For Class 55 Rating, Add</i> .....	3,048.99	
			<i>For Class 56 Rating, Add</i> .....	4,039.92	
40 05 19 00-2300			<b>16" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small>		
40 05 19 00-2301	EA		16" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,882.70	945.26
			<i>For Class 52 Rating, Deduct</i> .....	-379.55	
			<i>For Class 54 Rating, Add</i> .....	534.76	
			<i>For Class 55 Rating, Add</i> .....	803.83	
			<i>For Class 56 Rating, Add</i> .....	1,069.45	
40 05 19 00-2302	EA		16" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,222.43	950.19
			<i>For Class 52 Rating, Deduct</i> .....	-416.10	
			<i>For Class 54 Rating, Add</i> .....	584.69	
			<i>For Class 55 Rating, Add</i> .....	878.11	
			<i>For Class 56 Rating, Add</i> .....	1,167.74	
40 05 19 00-2303	EA		16" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,562.16	955.10
			<i>For Class 52 Rating, Deduct</i> .....	-452.65	
			<i>For Class 54 Rating, Add</i> .....	634.62	
			<i>For Class 55 Rating, Add</i> .....	952.38	
			<i>For Class 56 Rating, Add</i> .....	1,266.03	
40 05 19 00-2304	EA		16" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,901.89	960.03
			<i>For Class 52 Rating, Deduct</i> .....	-489.20	
			<i>For Class 54 Rating, Add</i> .....	684.55	
			<i>For Class 55 Rating, Add</i> .....	1,026.66	
			<i>For Class 56 Rating, Add</i> .....	1,364.32	
40 05 19 00-2305	EA		16" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,241.62	964.95
			<i>For Class 52 Rating, Deduct</i> .....	-525.75	
			<i>For Class 54 Rating, Add</i> .....	734.48	
			<i>For Class 55 Rating, Add</i> .....	1,100.93	
			<i>For Class 56 Rating, Add</i> .....	1,462.61	
40 05 19 00-2306	EA		16" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,581.34	969.88
			<i>For Class 52 Rating, Deduct</i> .....	-562.30	
			<i>For Class 54 Rating, Add</i> .....	784.41	
			<i>For Class 55 Rating, Add</i> .....	1,175.21	
			<i>For Class 56 Rating, Add</i> .....	1,560.89	
40 05 19 00-2307	EA		16" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,921.08	974.80
			<i>For Class 52 Rating, Deduct</i> .....	-598.85	
			<i>For Class 54 Rating, Add</i> .....	834.34	
			<i>For Class 55 Rating, Add</i> .....	1,249.48	
			<i>For Class 56 Rating, Add</i> .....	1,659.18	
40 05 19 00-2308	EA		16" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,260.81	979.72
			<i>For Class 52 Rating, Deduct</i> .....	-635.40	
			<i>For Class 54 Rating, Add</i> .....	884.27	
			<i>For Class 55 Rating, Add</i> .....	1,323.76	
			<i>For Class 56 Rating, Add</i> .....	1,757.47	
40 05 19 00-2309	EA		16" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,600.53	984.65
			<i>For Class 52 Rating, Deduct</i> .....	-671.95	
			<i>For Class 54 Rating, Add</i> .....	934.20	
			<i>For Class 55 Rating, Add</i> .....	1,398.03	
			<i>For Class 56 Rating, Add</i> .....	1,855.76	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2310 EA 16" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,940.27	989.57
<i>For Class 52 Rating, Deduct</i>	-708.50	
<i>For Class 54 Rating, Add</i>	984.13	
<i>For Class 55 Rating, Add</i>	1,472.31	
<i>For Class 56 Rating, Add</i>	1,954.05	
40 05 19 00-2311 EA 16" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,279.99	994.49
<i>For Class 52 Rating, Deduct</i>	-745.05	
<i>For Class 54 Rating, Add</i>	1,034.06	
<i>For Class 55 Rating, Add</i>	1,546.58	
<i>For Class 56 Rating, Add</i>	2,052.34	
40 05 19 00-2312 EA 16" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,619.73	999.41
<i>For Class 52 Rating, Deduct</i>	-781.60	
<i>For Class 54 Rating, Add</i>	1,083.99	
<i>For Class 55 Rating, Add</i>	1,620.86	
<i>For Class 56 Rating, Add</i>	2,150.62	
40 05 19 00-2313 EA 16" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,959.45	1,004.34
<i>For Class 52 Rating, Deduct</i>	-818.15	
<i>For Class 54 Rating, Add</i>	1,133.92	
<i>For Class 55 Rating, Add</i>	1,695.14	
<i>For Class 56 Rating, Add</i>	2,248.91	
40 05 19 00-2314 EA 16" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,299.18	1,009.26
<i>For Class 52 Rating, Deduct</i>	-854.70	
<i>For Class 54 Rating, Add</i>	1,183.85	
<i>For Class 55 Rating, Add</i>	1,769.41	
<i>For Class 56 Rating, Add</i>	2,347.20	
40 05 19 00-2315 EA 16" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,638.92	1,014.18
<i>For Class 52 Rating, Deduct</i>	-891.25	
<i>For Class 54 Rating, Add</i>	1,233.78	
<i>For Class 55 Rating, Add</i>	1,843.69	
<i>For Class 56 Rating, Add</i>	2,445.49	
40 05 19 00-2316 EA 16" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,978.64	1,019.11
<i>For Class 52 Rating, Deduct</i>	-927.80	
<i>For Class 54 Rating, Add</i>	1,283.71	
<i>For Class 55 Rating, Add</i>	1,917.96	
<i>For Class 56 Rating, Add</i>	2,543.78	
40 05 19 00-2317 EA 16" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,318.37	1,024.03
<i>For Class 52 Rating, Deduct</i>	-964.35	
<i>For Class 54 Rating, Add</i>	1,333.64	
<i>For Class 55 Rating, Add</i>	1,992.24	
<i>For Class 56 Rating, Add</i>	2,642.07	
40 05 19 00-2318 EA 16" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,658.10	1,028.95
<i>For Class 52 Rating, Deduct</i>	-1,000.90	
<i>For Class 54 Rating, Add</i>	1,383.57	
<i>For Class 55 Rating, Add</i>	2,066.51	
<i>For Class 56 Rating, Add</i>	2,740.35	
40 05 19 00-2319 EA 16" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,997.82	1,033.88
<i>For Class 52 Rating, Deduct</i>	-1,037.45	
<i>For Class 54 Rating, Add</i>	1,433.50	
<i>For Class 55 Rating, Add</i>	2,140.78	
<i>For Class 56 Rating, Add</i>	2,838.64	
40 05 19 00-2320 EA 16" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,337.55	1,038.80
<i>For Class 52 Rating, Deduct</i>	-1,074.00	
<i>For Class 54 Rating, Add</i>	1,483.43	
<i>For Class 55 Rating, Add</i>	2,215.06	
<i>For Class 56 Rating, Add</i>	2,936.93	
40 05 19 00-2321 EA 16" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,677.28	1,043.73
<i>For Class 52 Rating, Deduct</i>	-1,110.55	
<i>For Class 54 Rating, Add</i>	1,533.36	
<i>For Class 55 Rating, Add</i>	2,289.33	
<i>For Class 56 Rating, Add</i>	3,035.22	
40 05 19 00-2322 EA 16" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,017.01	1,048.64
<i>For Class 52 Rating, Deduct</i>	-1,147.10	
<i>For Class 54 Rating, Add</i>	1,583.29	
<i>For Class 55 Rating, Add</i>	2,363.61	
<i>For Class 56 Rating, Add</i>	3,133.50	
40 05 19 00-2323 EA 16" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,356.74	1,053.57
<i>For Class 52 Rating, Deduct</i>	-1,183.65	
<i>For Class 54 Rating, Add</i>	1,633.22	
<i>For Class 55 Rating, Add</i>	2,437.89	
<i>For Class 56 Rating, Add</i>	3,231.79	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2324	EA		16" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	12,696.47	1,058.50
			<i>For Class 52 Rating, Deduct</i> .....	-1,220.20	
			<i>For Class 54 Rating, Add</i> .....	1,683.15	
			<i>For Class 55 Rating, Add</i> .....	2,512.16	
			<i>For Class 56 Rating, Add</i> .....	3,330.08	
40 05 19 00-2325	EA		16" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,036.19	1,063.41
			<i>For Class 52 Rating, Deduct</i> .....	-1,256.75	
			<i>For Class 54 Rating, Add</i> .....	1,733.08	
			<i>For Class 55 Rating, Add</i> .....	2,586.44	
			<i>For Class 56 Rating, Add</i> .....	3,428.37	
40 05 19 00-2326	EA		16" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,375.93	1,068.34
			<i>For Class 52 Rating, Deduct</i> .....	-1,293.30	
			<i>For Class 54 Rating, Add</i> .....	1,783.01	
			<i>For Class 55 Rating, Add</i> .....	2,660.71	
			<i>For Class 56 Rating, Add</i> .....	3,526.66	
40 05 19 00-2327	EA		16" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,715.65	1,073.26
			<i>For Class 52 Rating, Deduct</i> .....	-1,329.85	
			<i>For Class 54 Rating, Add</i> .....	1,832.94	
			<i>For Class 55 Rating, Add</i> .....	2,734.99	
			<i>For Class 56 Rating, Add</i> .....	3,624.94	
40 05 19 00-2328	EA		16" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,055.39	1,078.19
			<i>For Class 52 Rating, Deduct</i> .....	-1,366.39	
			<i>For Class 54 Rating, Add</i> .....	1,882.87	
			<i>For Class 55 Rating, Add</i> .....	2,809.26	
			<i>For Class 56 Rating, Add</i> .....	3,723.23	
40 05 19 00-2329	EA		16" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,395.11	1,083.11
			<i>For Class 52 Rating, Deduct</i> .....	-1,402.94	
			<i>For Class 54 Rating, Add</i> .....	1,932.80	
			<i>For Class 55 Rating, Add</i> .....	2,883.54	
			<i>For Class 56 Rating, Add</i> .....	3,821.52	
40 05 19 00-2330	EA		16" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,734.84	1,088.03
			<i>For Class 52 Rating, Deduct</i> .....	-1,439.49	
			<i>For Class 54 Rating, Add</i> .....	1,982.73	
			<i>For Class 55 Rating, Add</i> .....	2,957.81	
			<i>For Class 56 Rating, Add</i> .....	3,919.81	
40 05 19 00-2331	EA		16" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	15,074.58	1,092.96
			<i>For Class 52 Rating, Deduct</i> .....	-1,476.04	
			<i>For Class 54 Rating, Add</i> .....	2,032.66	
			<i>For Class 55 Rating, Add</i> .....	3,032.09	
			<i>For Class 56 Rating, Add</i> .....	4,018.10	
40 05 19 00-2332	EA		16" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	15,414.30	1,097.88
			<i>For Class 52 Rating, Deduct</i> .....	-1,512.59	
			<i>For Class 54 Rating, Add</i> .....	2,082.59	
			<i>For Class 55 Rating, Add</i> .....	3,106.36	
			<i>For Class 56 Rating, Add</i> .....	4,116.38	
40 05 19 00-2333	EA		16" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	15,754.03	1,102.80
			<i>For Class 52 Rating, Deduct</i> .....	-1,549.14	
			<i>For Class 54 Rating, Add</i> .....	2,132.52	
			<i>For Class 55 Rating, Add</i> .....	3,180.64	
			<i>For Class 56 Rating, Add</i> .....	4,214.67	
40 05 19 00-2334	EA		16" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	16,093.76	1,107.73
			<i>For Class 52 Rating, Deduct</i> .....	-1,585.69	
			<i>For Class 54 Rating, Add</i> .....	2,182.45	
			<i>For Class 55 Rating, Add</i> .....	3,254.91	
			<i>For Class 56 Rating, Add</i> .....	4,312.96	
40 05 19 00-2335	EA		16" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	16,433.49	1,112.65
			<i>For Class 52 Rating, Deduct</i> .....	-1,622.24	
			<i>For Class 54 Rating, Add</i> .....	2,232.38	
			<i>For Class 55 Rating, Add</i> .....	3,329.19	
			<i>For Class 56 Rating, Add</i> .....	4,411.25	
40 05 19 00-2336	EA		16" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	16,773.22	1,117.57
			<i>For Class 52 Rating, Deduct</i> .....	-1,658.79	
			<i>For Class 54 Rating, Add</i> .....	2,282.31	
			<i>For Class 55 Rating, Add</i> .....	3,403.46	
			<i>For Class 56 Rating, Add</i> .....	4,509.54	
40 05 19 00-2337	EA		16" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	17,112.95	1,122.49
			<i>For Class 52 Rating, Deduct</i> .....	-1,695.34	
			<i>For Class 54 Rating, Add</i> .....	2,332.24	
			<i>For Class 55 Rating, Add</i> .....	3,477.74	
			<i>For Class 56 Rating, Add</i> .....	4,607.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2338 EA 16" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,452.68	1,127.42
For Class 52 Rating, Deduct	-1,731.89	
For Class 54 Rating, Add	2,382.17	
For Class 55 Rating, Add	3,552.01	
For Class 56 Rating, Add	4,706.11	
<b>40 05 19 00-2339 18" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b>		
(40 05 19 00-2060)		
40 05 19 00-2340 EA 18" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,678.13	1,065.39
For Class 52 Rating, Deduct	-447.03	
For Class 54 Rating, Add	628.96	
For Class 55 Rating, Add	944.99	
For Class 56 Rating, Add	1,256.97	
40 05 19 00-2341 EA 18" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,068.98	1,070.31
For Class 52 Rating, Deduct	-489.20	
For Class 54 Rating, Add	686.56	
For Class 55 Rating, Add	1,030.67	
For Class 56 Rating, Add	1,370.33	
40 05 19 00-2342 EA 18" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,459.83	1,075.23
For Class 52 Rating, Deduct	-531.38	
For Class 54 Rating, Add	744.15	
For Class 55 Rating, Add	1,116.34	
For Class 56 Rating, Add	1,483.70	
40 05 19 00-2343 EA 18" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,850.68	1,080.16
For Class 52 Rating, Deduct	-573.55	
For Class 54 Rating, Add	801.75	
For Class 55 Rating, Add	1,202.02	
For Class 56 Rating, Add	1,597.07	
40 05 19 00-2344 EA 18" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,241.52	1,085.07
For Class 52 Rating, Deduct	-615.72	
For Class 54 Rating, Add	859.35	
For Class 55 Rating, Add	1,287.69	
For Class 56 Rating, Add	1,710.44	
40 05 19 00-2345 EA 18" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,632.37	1,090.00
For Class 52 Rating, Deduct	-657.89	
For Class 54 Rating, Add	916.95	
For Class 55 Rating, Add	1,373.37	
For Class 56 Rating, Add	1,823.81	
40 05 19 00-2346 EA 18" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,023.22	1,094.93
For Class 52 Rating, Deduct	-700.07	
For Class 54 Rating, Add	974.54	
For Class 55 Rating, Add	1,459.04	
For Class 56 Rating, Add	1,937.17	
40 05 19 00-2347 EA 18" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,414.06	1,099.85
For Class 52 Rating, Deduct	-742.24	
For Class 54 Rating, Add	1,032.14	
For Class 55 Rating, Add	1,544.72	
For Class 56 Rating, Add	2,050.54	
40 05 19 00-2348 EA 18" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,804.92	1,104.77
For Class 52 Rating, Deduct	-784.41	
For Class 54 Rating, Add	1,089.74	
For Class 55 Rating, Add	1,630.39	
For Class 56 Rating, Add	2,163.91	
40 05 19 00-2349 EA 18" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,195.75	1,109.69
For Class 52 Rating, Deduct	-826.58	
For Class 54 Rating, Add	1,147.34	
For Class 55 Rating, Add	1,716.06	
For Class 56 Rating, Add	2,277.28	
40 05 19 00-2350 EA 18" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,586.61	1,114.62
For Class 52 Rating, Deduct	-868.76	
For Class 54 Rating, Add	1,204.93	
For Class 55 Rating, Add	1,801.74	
For Class 56 Rating, Add	2,390.65	
40 05 19 00-2351 EA 18" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,977.45	1,119.55
For Class 52 Rating, Deduct	-910.93	
For Class 54 Rating, Add	1,262.53	
For Class 55 Rating, Add	1,887.41	
For Class 56 Rating, Add	2,504.01	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2352	EA		18" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,368.30	1,124.46
			<i>For Class 52 Rating, Deduct</i> .....	-953.10	
			<i>For Class 54 Rating, Add</i> .....	1,320.13	
			<i>For Class 55 Rating, Add</i> .....	1,973.09	
			<i>For Class 56 Rating, Add</i> .....	2,617.38	
40 05 19 00-2353	EA		18" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,759.16	1,129.39
			<i>For Class 52 Rating, Deduct</i> .....	-995.28	
			<i>For Class 54 Rating, Add</i> .....	1,377.73	
			<i>For Class 55 Rating, Add</i> .....	2,058.76	
			<i>For Class 56 Rating, Add</i> .....	2,730.75	
40 05 19 00-2354	EA		18" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	11,149.99	1,134.31
			<i>For Class 52 Rating, Deduct</i> .....	-1,037.45	
			<i>For Class 54 Rating, Add</i> .....	1,435.32	
			<i>For Class 55 Rating, Add</i> .....	2,144.44	
			<i>For Class 56 Rating, Add</i> .....	2,844.12	
40 05 19 00-2355	EA		18" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	11,540.84	1,139.23
			<i>For Class 52 Rating, Deduct</i> .....	-1,079.62	
			<i>For Class 54 Rating, Add</i> .....	1,492.92	
			<i>For Class 55 Rating, Add</i> .....	2,230.11	
			<i>For Class 56 Rating, Add</i> .....	2,957.49	
40 05 19 00-2356	EA		18" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	11,931.69	1,144.16
			<i>For Class 52 Rating, Deduct</i> .....	-1,121.79	
			<i>For Class 54 Rating, Add</i> .....	1,550.52	
			<i>For Class 55 Rating, Add</i> .....	2,315.79	
			<i>For Class 56 Rating, Add</i> .....	3,070.85	
40 05 19 00-2357	EA		18" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	12,322.54	1,149.08
			<i>For Class 52 Rating, Deduct</i> .....	-1,163.97	
			<i>For Class 54 Rating, Add</i> .....	1,608.12	
			<i>For Class 55 Rating, Add</i> .....	2,401.46	
			<i>For Class 56 Rating, Add</i> .....	3,184.22	
40 05 19 00-2358	EA		18" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	12,713.39	1,154.01
			<i>For Class 52 Rating, Deduct</i> .....	-1,206.14	
			<i>For Class 54 Rating, Add</i> .....	1,665.72	
			<i>For Class 55 Rating, Add</i> .....	2,487.14	
			<i>For Class 56 Rating, Add</i> .....	3,297.59	
40 05 19 00-2359	EA		18" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,104.23	1,158.92
			<i>For Class 52 Rating, Deduct</i> .....	-1,248.31	
			<i>For Class 54 Rating, Add</i> .....	1,723.31	
			<i>For Class 55 Rating, Add</i> .....	2,572.81	
			<i>For Class 56 Rating, Add</i> .....	3,410.96	
40 05 19 00-2360	EA		18" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,495.08	1,163.85
			<i>For Class 52 Rating, Deduct</i> .....	-1,290.48	
			<i>For Class 54 Rating, Add</i> .....	1,780.91	
			<i>For Class 55 Rating, Add</i> .....	2,658.48	
			<i>For Class 56 Rating, Add</i> .....	3,524.33	
40 05 19 00-2361	EA		18" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,885.93	1,168.77
			<i>For Class 52 Rating, Deduct</i> .....	-1,332.66	
			<i>For Class 54 Rating, Add</i> .....	1,838.51	
			<i>For Class 55 Rating, Add</i> .....	2,744.16	
			<i>For Class 56 Rating, Add</i> .....	3,637.69	
40 05 19 00-2362	EA		18" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,276.78	1,173.70
			<i>For Class 52 Rating, Deduct</i> .....	-1,374.83	
			<i>For Class 54 Rating, Add</i> .....	1,896.11	
			<i>For Class 55 Rating, Add</i> .....	2,829.83	
			<i>For Class 56 Rating, Add</i> .....	3,751.06	
40 05 19 00-2363	EA		18" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,667.62	1,178.62
			<i>For Class 52 Rating, Deduct</i> .....	-1,417.00	
			<i>For Class 54 Rating, Add</i> .....	1,953.71	
			<i>For Class 55 Rating, Add</i> .....	2,915.51	
			<i>For Class 56 Rating, Add</i> .....	3,864.43	
40 05 19 00-2364	EA		18" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	15,058.47	1,183.54
			<i>For Class 52 Rating, Deduct</i> .....	-1,459.17	
			<i>For Class 54 Rating, Add</i> .....	2,011.30	
			<i>For Class 55 Rating, Add</i> .....	3,001.18	
			<i>For Class 56 Rating, Add</i> .....	3,977.80	
40 05 19 00-2365	EA		18" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	15,449.31	1,188.47
			<i>For Class 52 Rating, Deduct</i> .....	-1,501.35	
			<i>For Class 54 Rating, Add</i> .....	2,068.90	
			<i>For Class 55 Rating, Add</i> .....	3,086.86	
			<i>For Class 56 Rating, Add</i> .....	4,091.17	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2366 EA 18" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,840.17	1,193.38
<i>For Class 52 Rating, Deduct</i>	-1,543.52	
<i>For Class 54 Rating, Add</i>	2,126.50	
<i>For Class 55 Rating, Add</i>	3,172.53	
<i>For Class 56 Rating, Add</i>	4,204.53	
40 05 19 00-2367 EA 18" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,231.02	1,198.31
<i>For Class 52 Rating, Deduct</i>	-1,585.69	
<i>For Class 54 Rating, Add</i>	2,184.10	
<i>For Class 55 Rating, Add</i>	3,258.21	
<i>For Class 56 Rating, Add</i>	4,317.90	
40 05 19 00-2368 EA 18" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,621.86	1,203.24
<i>For Class 52 Rating, Deduct</i>	-1,627.87	
<i>For Class 54 Rating, Add</i>	2,241.69	
<i>For Class 55 Rating, Add</i>	3,343.88	
<i>For Class 56 Rating, Add</i>	4,431.27	
40 05 19 00-2369 EA 18" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,012.71	1,208.16
<i>For Class 52 Rating, Deduct</i>	-1,670.04	
<i>For Class 54 Rating, Add</i>	2,299.29	
<i>For Class 55 Rating, Add</i>	3,429.55	
<i>For Class 56 Rating, Add</i>	4,544.64	
40 05 19 00-2370 EA 18" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,403.55	1,213.08
<i>For Class 52 Rating, Deduct</i>	-1,712.21	
<i>For Class 54 Rating, Add</i>	2,356.89	
<i>For Class 55 Rating, Add</i>	3,515.23	
<i>For Class 56 Rating, Add</i>	4,658.01	
40 05 19 00-2371 EA 18" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,794.41	1,218.00
<i>For Class 52 Rating, Deduct</i>	-1,754.38	
<i>For Class 54 Rating, Add</i>	2,414.49	
<i>For Class 55 Rating, Add</i>	3,600.90	
<i>For Class 56 Rating, Add</i>	4,771.37	
40 05 19 00-2372 EA 18" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,185.25	1,222.93
<i>For Class 52 Rating, Deduct</i>	-1,796.56	
<i>For Class 54 Rating, Add</i>	2,472.08	
<i>For Class 55 Rating, Add</i>	3,686.58	
<i>For Class 56 Rating, Add</i>	4,884.74	
40 05 19 00-2373 EA 18" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,576.10	1,227.86
<i>For Class 52 Rating, Deduct</i>	-1,838.73	
<i>For Class 54 Rating, Add</i>	2,529.68	
<i>For Class 55 Rating, Add</i>	3,772.25	
<i>For Class 56 Rating, Add</i>	4,998.11	
40 05 19 00-2374 EA 18" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,966.95	1,232.77
<i>For Class 52 Rating, Deduct</i>	-1,880.90	
<i>For Class 54 Rating, Add</i>	2,587.28	
<i>For Class 55 Rating, Add</i>	3,857.93	
<i>For Class 56 Rating, Add</i>	5,111.48	
40 05 19 00-2375 EA 18" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,357.79	1,237.70
<i>For Class 52 Rating, Deduct</i>	-1,923.07	
<i>For Class 54 Rating, Add</i>	2,644.88	
<i>For Class 55 Rating, Add</i>	3,943.60	
<i>For Class 56 Rating, Add</i>	5,224.85	
40 05 19 00-2376 EA 18" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,748.64	1,242.62
<i>For Class 52 Rating, Deduct</i>	-1,965.25	
<i>For Class 54 Rating, Add</i>	2,702.48	
<i>For Class 55 Rating, Add</i>	4,029.28	
<i>For Class 56 Rating, Add</i>	5,338.21	
40 05 19 00-2377 EA 18" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,139.49	1,247.55
<i>For Class 52 Rating, Deduct</i>	-2,007.42	
<i>For Class 54 Rating, Add</i>	2,760.07	
<i>For Class 55 Rating, Add</i>	4,114.95	
<i>For Class 56 Rating, Add</i>	5,451.58	
<b>40 05 19 00-2378 20" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b>		
<small>(40 05 19 00-2060)</small>		
40 05 19 00-2379 EA 20" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,634.83	1,216.04
<i>For Class 52 Rating, Deduct</i>	-527.16	
<i>For Class 54 Rating, Add</i>	740.96	
<i>For Class 55 Rating, Add</i>	1,112.91	
<i>For Class 56 Rating, Add</i>	1,480.07	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2380	EA		20" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,079.35	1,220.96
			<i>For Class 52 Rating, Deduct</i>	-575.24	
			<i>For Class 54 Rating, Add</i>	806.61	
			<i>For Class 55 Rating, Add</i>	1,210.56	
			<i>For Class 56 Rating, Add</i>	1,609.27	
40 05 19 00-2381	EA		20" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,523.87	1,225.88
			<i>For Class 52 Rating, Deduct</i>	-623.31	
			<i>For Class 54 Rating, Add</i>	872.26	
			<i>For Class 55 Rating, Add</i>	1,308.20	
			<i>For Class 56 Rating, Add</i>	1,738.48	
40 05 19 00-2382	EA		20" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	7,968.39	1,230.80
			<i>For Class 52 Rating, Deduct</i>	-671.39	
			<i>For Class 54 Rating, Add</i>	937.91	
			<i>For Class 55 Rating, Add</i>	1,405.85	
			<i>For Class 56 Rating, Add</i>	1,867.68	
40 05 19 00-2383	EA		20" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,412.92	1,235.73
			<i>For Class 52 Rating, Deduct</i>	-719.47	
			<i>For Class 54 Rating, Add</i>	1,003.56	
			<i>For Class 55 Rating, Add</i>	1,503.49	
			<i>For Class 56 Rating, Add</i>	1,996.88	
40 05 19 00-2384	EA		20" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	8,857.44	1,240.66
			<i>For Class 52 Rating, Deduct</i>	-767.54	
			<i>For Class 54 Rating, Add</i>	1,069.21	
			<i>For Class 55 Rating, Add</i>	1,601.13	
			<i>For Class 56 Rating, Add</i>	2,126.08	
40 05 19 00-2385	EA		20" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,301.95	1,245.57
			<i>For Class 52 Rating, Deduct</i>	-815.62	
			<i>For Class 54 Rating, Add</i>	1,134.85	
			<i>For Class 55 Rating, Add</i>	1,698.78	
			<i>For Class 56 Rating, Add</i>	2,255.28	
40 05 19 00-2386	EA		20" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	9,746.49	1,250.50
			<i>For Class 52 Rating, Deduct</i>	-863.70	
			<i>For Class 54 Rating, Add</i>	1,200.50	
			<i>For Class 55 Rating, Add</i>	1,796.42	
			<i>For Class 56 Rating, Add</i>	2,384.49	
40 05 19 00-2387	EA		20" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,191.00	1,255.42
			<i>For Class 52 Rating, Deduct</i>	-911.77	
			<i>For Class 54 Rating, Add</i>	1,266.15	
			<i>For Class 55 Rating, Add</i>	1,894.07	
			<i>For Class 56 Rating, Add</i>	2,513.69	
40 05 19 00-2388	EA		20" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,635.53	1,260.35
			<i>For Class 52 Rating, Deduct</i>	-959.85	
			<i>For Class 54 Rating, Add</i>	1,331.80	
			<i>For Class 55 Rating, Add</i>	1,991.71	
			<i>For Class 56 Rating, Add</i>	2,642.89	
40 05 19 00-2389	EA		20" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,080.04	1,265.27
			<i>For Class 52 Rating, Deduct</i>	-1,007.93	
			<i>For Class 54 Rating, Add</i>	1,397.45	
			<i>For Class 55 Rating, Add</i>	2,089.35	
			<i>For Class 56 Rating, Add</i>	2,772.09	
40 05 19 00-2390	EA		20" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,524.57	1,270.19
			<i>For Class 52 Rating, Deduct</i>	-1,056.00	
			<i>For Class 54 Rating, Add</i>	1,463.10	
			<i>For Class 55 Rating, Add</i>	2,187.00	
			<i>For Class 56 Rating, Add</i>	2,901.29	
40 05 19 00-2391	EA		20" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,969.10	1,275.12
			<i>For Class 52 Rating, Deduct</i>	-1,104.08	
			<i>For Class 54 Rating, Add</i>	1,528.75	
			<i>For Class 55 Rating, Add</i>	2,284.64	
			<i>For Class 56 Rating, Add</i>	3,030.50	
40 05 19 00-2392	EA		20" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,413.61	1,280.04
			<i>For Class 52 Rating, Deduct</i>	-1,152.16	
			<i>For Class 54 Rating, Add</i>	1,594.40	
			<i>For Class 55 Rating, Add</i>	2,382.28	
			<i>For Class 56 Rating, Add</i>	3,159.70	
40 05 19 00-2393	EA		20" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,858.13	1,284.96
			<i>For Class 52 Rating, Deduct</i>	-1,200.23	
			<i>For Class 54 Rating, Add</i>	1,660.05	
			<i>For Class 55 Rating, Add</i>	2,479.93	
			<i>For Class 56 Rating, Add</i>	3,288.90	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2394 EA 20" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,302.65	1,289.89
<i>For Class 52 Rating, Deduct</i>	-1,248.31	
<i>For Class 54 Rating, Add</i>	1,725.69	
<i>For Class 55 Rating, Add</i>	2,577.57	
<i>For Class 56 Rating, Add</i>	3,418.10	
40 05 19 00-2395 EA 20" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,747.18	1,294.81
<i>For Class 52 Rating, Deduct</i>	-1,296.39	
<i>For Class 54 Rating, Add</i>	1,791.34	
<i>For Class 55 Rating, Add</i>	2,675.22	
<i>For Class 56 Rating, Add</i>	3,547.30	
40 05 19 00-2396 EA 20" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,191.70	1,299.73
<i>For Class 52 Rating, Deduct</i>	-1,344.47	
<i>For Class 54 Rating, Add</i>	1,856.99	
<i>For Class 55 Rating, Add</i>	2,772.86	
<i>For Class 56 Rating, Add</i>	3,676.51	
40 05 19 00-2397 EA 20" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,636.22	1,304.65
<i>For Class 52 Rating, Deduct</i>	-1,392.54	
<i>For Class 54 Rating, Add</i>	1,922.64	
<i>For Class 55 Rating, Add</i>	2,870.50	
<i>For Class 56 Rating, Add</i>	3,805.71	
40 05 19 00-2398 EA 20" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,080.74	1,309.58
<i>For Class 52 Rating, Deduct</i>	-1,440.62	
<i>For Class 54 Rating, Add</i>	1,988.29	
<i>For Class 55 Rating, Add</i>	2,968.15	
<i>For Class 56 Rating, Add</i>	3,934.91	
40 05 19 00-2399 EA 20" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,525.27	1,314.50
<i>For Class 52 Rating, Deduct</i>	-1,488.70	
<i>For Class 54 Rating, Add</i>	2,053.94	
<i>For Class 55 Rating, Add</i>	3,065.79	
<i>For Class 56 Rating, Add</i>	4,064.11	
40 05 19 00-2400 EA 20" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,969.79	1,319.42
<i>For Class 52 Rating, Deduct</i>	-1,536.77	
<i>For Class 54 Rating, Add</i>	2,119.59	
<i>For Class 55 Rating, Add</i>	3,163.44	
<i>For Class 56 Rating, Add</i>	4,193.31	
40 05 19 00-2401 EA 20" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,414.30	1,324.35
<i>For Class 52 Rating, Deduct</i>	-1,584.85	
<i>For Class 54 Rating, Add</i>	2,185.24	
<i>For Class 55 Rating, Add</i>	3,261.08	
<i>For Class 56 Rating, Add</i>	4,322.51	
40 05 19 00-2402 EA 20" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,858.83	1,329.27
<i>For Class 52 Rating, Deduct</i>	-1,632.93	
<i>For Class 54 Rating, Add</i>	2,250.89	
<i>For Class 55 Rating, Add</i>	3,358.72	
<i>For Class 56 Rating, Add</i>	4,451.72	
40 05 19 00-2403 EA 20" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,303.35	1,334.20
<i>For Class 52 Rating, Deduct</i>	-1,681.00	
<i>For Class 54 Rating, Add</i>	2,316.54	
<i>For Class 55 Rating, Add</i>	3,456.37	
<i>For Class 56 Rating, Add</i>	4,580.92	
40 05 19 00-2404 EA 20" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,747.88	1,339.11
<i>For Class 52 Rating, Deduct</i>	-1,729.08	
<i>For Class 54 Rating, Add</i>	2,382.18	
<i>For Class 55 Rating, Add</i>	3,554.01	
<i>For Class 56 Rating, Add</i>	4,710.12	
40 05 19 00-2405 EA 20" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,192.40	1,344.04
<i>For Class 52 Rating, Deduct</i>	-1,777.16	
<i>For Class 54 Rating, Add</i>	2,447.83	
<i>For Class 55 Rating, Add</i>	3,651.66	
<i>For Class 56 Rating, Add</i>	4,839.32	
40 05 19 00-2406 EA 20" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,636.91	1,348.97
<i>For Class 52 Rating, Deduct</i>	-1,825.23	
<i>For Class 54 Rating, Add</i>	2,513.48	
<i>For Class 55 Rating, Add</i>	3,749.30	
<i>For Class 56 Rating, Add</i>	4,968.52	
40 05 19 00-2407 EA 20" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,081.45	1,353.88
<i>For Class 52 Rating, Deduct</i>	-1,873.31	
<i>For Class 54 Rating, Add</i>	2,579.13	
<i>For Class 55 Rating, Add</i>	3,846.94	
<i>For Class 56 Rating, Add</i>	5,097.73	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2408	EA		20" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	19,525.96	1,358.81
			<i>For Class 52 Rating, Deduct</i> .....	-1,921.39	
			<i>For Class 54 Rating, Add</i> .....	2,644.78	
			<i>For Class 55 Rating, Add</i> .....	3,944.59	
			<i>For Class 56 Rating, Add</i> .....	5,226.93	
40 05 19 00-2409	EA		20" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	19,970.48	1,363.73
			<i>For Class 52 Rating, Deduct</i> .....	-1,969.46	
			<i>For Class 54 Rating, Add</i> .....	2,710.43	
			<i>For Class 55 Rating, Add</i> .....	4,042.23	
			<i>For Class 56 Rating, Add</i> .....	5,356.13	
40 05 19 00-2410	EA		20" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	20,415.00	1,368.66
			<i>For Class 52 Rating, Deduct</i> .....	-2,017.54	
			<i>For Class 54 Rating, Add</i> .....	2,776.08	
			<i>For Class 55 Rating, Add</i> .....	4,139.87	
			<i>For Class 56 Rating, Add</i> .....	5,485.33	
40 05 19 00-2411	EA		20" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	20,859.52	1,373.58
			<i>For Class 52 Rating, Deduct</i> .....	-2,065.62	
			<i>For Class 54 Rating, Add</i> .....	2,841.73	
			<i>For Class 55 Rating, Add</i> .....	4,237.52	
			<i>For Class 56 Rating, Add</i> .....	5,614.53	
40 05 19 00-2412	EA		20" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	21,304.05	1,378.50
			<i>For Class 52 Rating, Deduct</i> .....	-2,113.70	
			<i>For Class 54 Rating, Add</i> .....	2,907.38	
			<i>For Class 55 Rating, Add</i> .....	4,335.16	
			<i>For Class 56 Rating, Add</i> .....	5,743.74	
40 05 19 00-2413	EA		20" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	21,748.57	1,383.43
			<i>For Class 52 Rating, Deduct</i> .....	-2,161.77	
			<i>For Class 54 Rating, Add</i> .....	2,973.02	
			<i>For Class 55 Rating, Add</i> .....	4,432.81	
			<i>For Class 56 Rating, Add</i> .....	5,872.94	
40 05 19 00-2414	EA		20" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	22,193.09	1,388.35
			<i>For Class 52 Rating, Deduct</i> .....	-2,209.85	
			<i>For Class 54 Rating, Add</i> .....	3,038.67	
			<i>For Class 55 Rating, Add</i> .....	4,530.45	
			<i>For Class 56 Rating, Add</i> .....	6,002.14	
40 05 19 00-2415	EA		20" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	22,637.61	1,393.27
			<i>For Class 52 Rating, Deduct</i> .....	-2,257.92	
			<i>For Class 54 Rating, Add</i> .....	3,104.32	
			<i>For Class 55 Rating, Add</i> .....	4,628.09	
			<i>For Class 56 Rating, Add</i> .....	6,131.34	
40 05 19 00-2416	EA		20" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	23,082.14	1,398.20
			<i>For Class 52 Rating, Deduct</i> .....	-2,306.00	
			<i>For Class 54 Rating, Add</i> .....	3,169.97	
			<i>For Class 55 Rating, Add</i> .....	4,725.74	
			<i>For Class 56 Rating, Add</i> .....	6,260.54	

**40 05 19 00-2417 24" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe** (40 05 19 00-2060)

40 05 19 00-2418	EA		24" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,159.00	1,437.58
			<i>For Class 52 Rating, Deduct</i> .....	-657.89	
			<i>For Class 54 Rating, Add</i> .....	923.27	
			<i>For Class 55 Rating, Add</i> .....	1,386.01	
			<i>For Class 56 Rating, Add</i> .....	1,842.76	
40 05 19 00-2419	EA		24" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,708.32	1,442.51
			<i>For Class 52 Rating, Deduct</i> .....	-717.50	
			<i>For Class 54 Rating, Add</i> .....	1,004.63	
			<i>For Class 55 Rating, Add</i> .....	1,507.02	
			<i>For Class 56 Rating, Add</i> .....	2,002.88	
40 05 19 00-2420	EA		24" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,257.63	1,447.42
			<i>For Class 52 Rating, Deduct</i> .....	-777.10	
			<i>For Class 54 Rating, Add</i> .....	1,086.00	
			<i>For Class 55 Rating, Add</i> .....	1,628.03	
			<i>For Class 56 Rating, Add</i> .....	2,163.00	
40 05 19 00-2421	EA		24" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,806.95	1,452.35
			<i>For Class 52 Rating, Deduct</i> .....	-836.71	
			<i>For Class 54 Rating, Add</i> .....	1,167.37	
			<i>For Class 55 Rating, Add</i> .....	1,749.04	
			<i>For Class 56 Rating, Add</i> .....	2,323.11	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2422 EA 24" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,356.27	1,457.28
<i>For Class 52 Rating, Deduct</i>	-896.31	
<i>For Class 54 Rating, Add</i>	1,248.74	
<i>For Class 55 Rating, Add</i>	1,870.06	
<i>For Class 56 Rating, Add</i>	2,483.23	
40 05 19 00-2423 EA 24" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	10,905.58	1,462.19
<i>For Class 52 Rating, Deduct</i>	-955.91	
<i>For Class 54 Rating, Add</i>	1,330.10	
<i>For Class 55 Rating, Add</i>	1,991.07	
<i>For Class 56 Rating, Add</i>	2,643.34	
40 05 19 00-2424 EA 24" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	11,454.89	1,467.12
<i>For Class 52 Rating, Deduct</i>	-1,015.52	
<i>For Class 54 Rating, Add</i>	1,411.47	
<i>For Class 55 Rating, Add</i>	2,112.08	
<i>For Class 56 Rating, Add</i>	2,803.46	
40 05 19 00-2425 EA 24" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,004.21	1,472.04
<i>For Class 52 Rating, Deduct</i>	-1,075.12	
<i>For Class 54 Rating, Add</i>	1,492.84	
<i>For Class 55 Rating, Add</i>	2,233.10	
<i>For Class 56 Rating, Add</i>	2,963.58	
40 05 19 00-2426 EA 24" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,553.52	1,476.97
<i>For Class 52 Rating, Deduct</i>	-1,134.73	
<i>For Class 54 Rating, Add</i>	1,574.21	
<i>For Class 55 Rating, Add</i>	2,354.11	
<i>For Class 56 Rating, Add</i>	3,123.69	
40 05 19 00-2427 EA 24" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,102.84	1,481.89
<i>For Class 52 Rating, Deduct</i>	-1,194.33	
<i>For Class 54 Rating, Add</i>	1,655.58	
<i>For Class 55 Rating, Add</i>	2,475.12	
<i>For Class 56 Rating, Add</i>	3,283.81	
40 05 19 00-2428 EA 24" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,652.15	1,486.81
<i>For Class 52 Rating, Deduct</i>	-1,253.93	
<i>For Class 54 Rating, Add</i>	1,736.94	
<i>For Class 55 Rating, Add</i>	2,596.13	
<i>For Class 56 Rating, Add</i>	3,443.92	
40 05 19 00-2429 EA 24" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,201.46	1,491.74
<i>For Class 52 Rating, Deduct</i>	-1,313.54	
<i>For Class 54 Rating, Add</i>	1,818.31	
<i>For Class 55 Rating, Add</i>	2,717.15	
<i>For Class 56 Rating, Add</i>	3,604.04	
40 05 19 00-2430 EA 24" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,750.78	1,496.66
<i>For Class 52 Rating, Deduct</i>	-1,373.14	
<i>For Class 54 Rating, Add</i>	1,899.68	
<i>For Class 55 Rating, Add</i>	2,838.16	
<i>For Class 56 Rating, Add</i>	3,764.15	
40 05 19 00-2431 EA 24" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,300.10	1,501.58
<i>For Class 52 Rating, Deduct</i>	-1,432.75	
<i>For Class 54 Rating, Add</i>	1,981.05	
<i>For Class 55 Rating, Add</i>	2,959.17	
<i>For Class 56 Rating, Add</i>	3,924.27	
40 05 19 00-2432 EA 24" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,849.40	1,506.51
<i>For Class 52 Rating, Deduct</i>	-1,492.35	
<i>For Class 54 Rating, Add</i>	2,062.41	
<i>For Class 55 Rating, Add</i>	3,080.18	
<i>For Class 56 Rating, Add</i>	4,084.38	
40 05 19 00-2433 EA 24" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,398.73	1,511.43
<i>For Class 52 Rating, Deduct</i>	-1,551.95	
<i>For Class 54 Rating, Add</i>	2,143.78	
<i>For Class 55 Rating, Add</i>	3,201.20	
<i>For Class 56 Rating, Add</i>	4,244.50	
40 05 19 00-2434 EA 24" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,948.03	1,516.36
<i>For Class 52 Rating, Deduct</i>	-1,611.56	
<i>For Class 54 Rating, Add</i>	2,225.15	
<i>For Class 55 Rating, Add</i>	3,322.21	
<i>For Class 56 Rating, Add</i>	4,404.62	
40 05 19 00-2435 EA 24" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,497.36	1,521.27
<i>For Class 52 Rating, Deduct</i>	-1,671.16	
<i>For Class 54 Rating, Add</i>	2,306.52	
<i>For Class 55 Rating, Add</i>	3,443.22	
<i>For Class 56 Rating, Add</i>	4,564.73	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2436	EA		24" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	18,046.66	1,526.20
			<i>For Class 52 Rating, Deduct</i> .....	-1,730.77	
			<i>For Class 54 Rating, Add</i> .....	2,387.89	
			<i>For Class 55 Rating, Add</i> .....	3,564.23	
			<i>For Class 56 Rating, Add</i> .....	4,724.85	
40 05 19 00-2437	EA		24" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	18,595.98	1,531.13
			<i>For Class 52 Rating, Deduct</i> .....	-1,790.37	
			<i>For Class 54 Rating, Add</i> .....	2,469.25	
			<i>For Class 55 Rating, Add</i> .....	3,685.25	
			<i>For Class 56 Rating, Add</i> .....	4,884.97	
40 05 19 00-2438	EA		24" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	19,145.30	1,536.04
			<i>For Class 52 Rating, Deduct</i> .....	-1,849.97	
			<i>For Class 54 Rating, Add</i> .....	2,550.62	
			<i>For Class 55 Rating, Add</i> .....	3,806.26	
			<i>For Class 56 Rating, Add</i> .....	5,045.08	
40 05 19 00-2439	EA		24" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	19,694.61	1,540.97
			<i>For Class 52 Rating, Deduct</i> .....	-1,909.58	
			<i>For Class 54 Rating, Add</i> .....	2,631.99	
			<i>For Class 55 Rating, Add</i> .....	3,927.27	
			<i>For Class 56 Rating, Add</i> .....	5,205.20	
40 05 19 00-2440	EA		24" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	20,243.92	1,545.89
			<i>For Class 52 Rating, Deduct</i> .....	-1,969.18	
			<i>For Class 54 Rating, Add</i> .....	2,713.36	
			<i>For Class 55 Rating, Add</i> .....	4,048.28	
			<i>For Class 56 Rating, Add</i> .....	5,365.31	
40 05 19 00-2441	EA		24" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	20,793.24	1,550.82
			<i>For Class 52 Rating, Deduct</i> .....	-2,028.79	
			<i>For Class 54 Rating, Add</i> .....	2,794.72	
			<i>For Class 55 Rating, Add</i> .....	4,169.30	
			<i>For Class 56 Rating, Add</i> .....	5,525.43	
40 05 19 00-2442	EA		24" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	21,342.55	1,555.74
			<i>For Class 52 Rating, Deduct</i> .....	-2,088.39	
			<i>For Class 54 Rating, Add</i> .....	2,876.09	
			<i>For Class 55 Rating, Add</i> .....	4,290.31	
			<i>For Class 56 Rating, Add</i> .....	5,685.54	
40 05 19 00-2443	EA		24" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	21,891.87	1,560.66
			<i>For Class 52 Rating, Deduct</i> .....	-2,148.00	
			<i>For Class 54 Rating, Add</i> .....	2,957.46	
			<i>For Class 55 Rating, Add</i> .....	4,411.32	
			<i>For Class 56 Rating, Add</i> .....	5,845.66	
40 05 19 00-2444	EA		24" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	22,441.18	1,565.59
			<i>For Class 52 Rating, Deduct</i> .....	-2,207.60	
			<i>For Class 54 Rating, Add</i> .....	3,038.83	
			<i>For Class 55 Rating, Add</i> .....	4,532.34	
			<i>For Class 56 Rating, Add</i> .....	6,005.77	
40 05 19 00-2445	EA		24" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	22,990.50	1,570.51
			<i>For Class 52 Rating, Deduct</i> .....	-2,267.20	
			<i>For Class 54 Rating, Add</i> .....	3,120.20	
			<i>For Class 55 Rating, Add</i> .....	4,653.35	
			<i>For Class 56 Rating, Add</i> .....	6,165.89	
40 05 19 00-2446	EA		24" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	23,539.81	1,575.43
			<i>For Class 52 Rating, Deduct</i> .....	-2,326.81	
			<i>For Class 54 Rating, Add</i> .....	3,201.56	
			<i>For Class 55 Rating, Add</i> .....	4,774.36	
			<i>For Class 56 Rating, Add</i> .....	6,326.01	
40 05 19 00-2447	EA		24" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	24,215.93	1,664.05
			<i>For Class 52 Rating, Deduct</i> .....	-2,386.41	
			<i>For Class 54 Rating, Add</i> .....	3,284.45	
			<i>For Class 55 Rating, Add</i> .....	4,898.42	
			<i>For Class 56 Rating, Add</i> .....	6,490.69	
40 05 19 00-2448	EA		24" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	24,765.25	1,668.97
			<i>For Class 52 Rating, Deduct</i> .....	-2,446.02	
			<i>For Class 54 Rating, Add</i> .....	3,365.82	
			<i>For Class 55 Rating, Add</i> .....	5,019.43	
			<i>For Class 56 Rating, Add</i> .....	6,650.80	
40 05 19 00-2449	EA		24" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	25,314.56	1,673.90
			<i>For Class 52 Rating, Deduct</i> .....	-2,505.62	
			<i>For Class 54 Rating, Add</i> .....	3,447.19	
			<i>For Class 55 Rating, Add</i> .....	5,140.44	
			<i>For Class 56 Rating, Add</i> .....	6,810.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2450 EA 24" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,863.88	1,678.82
For Class 52 Rating, Deduct	-2,565.22	
For Class 54 Rating, Add	3,528.56	
For Class 55 Rating, Add	5,261.45	
For Class 56 Rating, Add	6,971.03	
40 05 19 00-2451 EA 24" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,413.20	1,683.74
For Class 52 Rating, Deduct	-2,624.83	
For Class 54 Rating, Add	3,609.92	
For Class 55 Rating, Add	5,382.47	
For Class 56 Rating, Add	7,131.15	
40 05 19 00-2452 EA 24" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,962.50	1,688.67
For Class 52 Rating, Deduct	-2,684.43	
For Class 54 Rating, Add	3,691.29	
For Class 55 Rating, Add	5,503.48	
For Class 56 Rating, Add	7,291.27	
40 05 19 00-2453 EA 24" Flanged (FxF), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,511.83	1,693.59
For Class 52 Rating, Deduct	-2,744.04	
For Class 54 Rating, Add	3,772.66	
For Class 55 Rating, Add	5,624.49	
For Class 56 Rating, Add	7,451.38	
40 05 19 00-2454 EA 24" Flanged (FxF), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,061.13	1,698.51
For Class 52 Rating, Deduct	-2,803.64	
For Class 54 Rating, Add	3,854.03	
For Class 55 Rating, Add	5,745.51	
For Class 56 Rating, Add	7,611.50	
40 05 19 00-2455 EA 24" Flanged (FxF), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,610.45	1,703.43
For Class 52 Rating, Deduct	-2,863.24	
For Class 54 Rating, Add	3,935.40	
For Class 55 Rating, Add	5,866.52	
For Class 56 Rating, Add	7,771.61	
<b>40 05 19 00-2456 30" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small>		
40 05 19 00-2457 EA 30" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	12,540.41	2,028.37
For Class 52 Rating, Deduct	-1,041.38	
For Class 54 Rating, Add	1,456.95	
For Class 55 Rating, Add	2,184.93	
For Class 56 Rating, Add	2,903.44	
40 05 19 00-2458 EA 30" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	13,324.88	2,033.29
For Class 52 Rating, Deduct	-1,126.85	
For Class 54 Rating, Add	1,573.59	
For Class 55 Rating, Add	2,358.38	
For Class 56 Rating, Add	3,132.93	
40 05 19 00-2459 EA 30" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,109.33	2,038.22
For Class 52 Rating, Deduct	-1,212.32	
For Class 54 Rating, Add	1,690.23	
For Class 55 Rating, Add	2,531.83	
For Class 56 Rating, Add	3,362.41	
40 05 19 00-2460 EA 30" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,893.80	2,043.14
For Class 52 Rating, Deduct	-1,297.79	
For Class 54 Rating, Add	1,806.87	
For Class 55 Rating, Add	2,705.28	
For Class 56 Rating, Add	3,591.89	
40 05 19 00-2461 EA 30" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,678.25	2,048.06
For Class 52 Rating, Deduct	-1,383.26	
For Class 54 Rating, Add	1,923.51	
For Class 55 Rating, Add	2,878.73	
For Class 56 Rating, Add	3,821.38	
40 05 19 00-2462 EA 30" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,462.71	2,052.98
For Class 52 Rating, Deduct	-1,468.73	
For Class 54 Rating, Add	2,040.15	
For Class 55 Rating, Add	3,052.18	
For Class 56 Rating, Add	4,050.86	
40 05 19 00-2463 EA 30" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,247.18	2,057.91
For Class 52 Rating, Deduct	-1,554.20	
For Class 54 Rating, Add	2,156.79	
For Class 55 Rating, Add	3,225.63	
For Class 56 Rating, Add	4,280.34	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2464	EA		30" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,031.63	2,062.83
			<i>For Class 52 Rating, Deduct</i>	-1,639.67	
			<i>For Class 54 Rating, Add</i>	2,273.43	
			<i>For Class 55 Rating, Add</i>	3,399.08	
			<i>For Class 56 Rating, Add</i>	4,509.83	
40 05 19 00-2465	EA		30" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,816.09	2,067.75
			<i>For Class 52 Rating, Deduct</i>	-1,725.14	
			<i>For Class 54 Rating, Add</i>	2,390.07	
			<i>For Class 55 Rating, Add</i>	3,572.53	
			<i>For Class 56 Rating, Add</i>	4,739.31	
40 05 19 00-2466	EA		30" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,600.54	2,072.68
			<i>For Class 52 Rating, Deduct</i>	-1,810.61	
			<i>For Class 54 Rating, Add</i>	2,506.70	
			<i>For Class 55 Rating, Add</i>	3,745.98	
			<i>For Class 56 Rating, Add</i>	4,968.79	
40 05 19 00-2467	EA		30" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,385.00	2,077.60
			<i>For Class 52 Rating, Deduct</i>	-1,896.08	
			<i>For Class 54 Rating, Add</i>	2,623.34	
			<i>For Class 55 Rating, Add</i>	3,919.43	
			<i>For Class 56 Rating, Add</i>	5,198.27	
40 05 19 00-2468	EA		30" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,169.46	2,082.52
			<i>For Class 52 Rating, Deduct</i>	-1,981.55	
			<i>For Class 54 Rating, Add</i>	2,739.98	
			<i>For Class 55 Rating, Add</i>	4,092.88	
			<i>For Class 56 Rating, Add</i>	5,427.76	
40 05 19 00-2469	EA		30" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,953.92	2,087.45
			<i>For Class 52 Rating, Deduct</i>	-2,067.02	
			<i>For Class 54 Rating, Add</i>	2,856.62	
			<i>For Class 55 Rating, Add</i>	4,266.33	
			<i>For Class 56 Rating, Add</i>	5,657.24	
40 05 19 00-2470	EA		30" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,738.38	2,092.37
			<i>For Class 52 Rating, Deduct</i>	-2,152.49	
			<i>For Class 54 Rating, Add</i>	2,973.26	
			<i>For Class 55 Rating, Add</i>	4,439.78	
			<i>For Class 56 Rating, Add</i>	5,886.72	
40 05 19 00-2471	EA		30" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,522.84	2,097.30
			<i>For Class 52 Rating, Deduct</i>	-2,237.96	
			<i>For Class 54 Rating, Add</i>	3,089.90	
			<i>For Class 55 Rating, Add</i>	4,613.23	
			<i>For Class 56 Rating, Add</i>	6,116.21	
40 05 19 00-2472	EA		30" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,307.30	2,102.21
			<i>For Class 52 Rating, Deduct</i>	-2,323.43	
			<i>For Class 54 Rating, Add</i>	3,206.54	
			<i>For Class 55 Rating, Add</i>	4,786.68	
			<i>For Class 56 Rating, Add</i>	6,345.69	
40 05 19 00-2473	EA		30" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,091.75	2,107.14
			<i>For Class 52 Rating, Deduct</i>	-2,408.90	
			<i>For Class 54 Rating, Add</i>	3,323.18	
			<i>For Class 55 Rating, Add</i>	4,960.13	
			<i>For Class 56 Rating, Add</i>	6,575.18	
40 05 19 00-2474	EA		30" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,876.22	2,112.07
			<i>For Class 52 Rating, Deduct</i>	-2,494.37	
			<i>For Class 54 Rating, Add</i>	3,439.82	
			<i>For Class 55 Rating, Add</i>	5,133.58	
			<i>For Class 56 Rating, Add</i>	6,804.66	
40 05 19 00-2475	EA		30" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,660.67	2,116.98
			<i>For Class 52 Rating, Deduct</i>	-2,579.84	
			<i>For Class 54 Rating, Add</i>	3,556.46	
			<i>For Class 55 Rating, Add</i>	5,307.03	
			<i>For Class 56 Rating, Add</i>	7,034.14	
40 05 19 00-2476	EA		30" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,445.14	2,121.91
			<i>For Class 52 Rating, Deduct</i>	-2,665.31	
			<i>For Class 54 Rating, Add</i>	3,673.10	
			<i>For Class 55 Rating, Add</i>	5,480.48	
			<i>For Class 56 Rating, Add</i>	7,263.63	
40 05 19 00-2477	EA		30" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,229.59	2,126.83
			<i>For Class 52 Rating, Deduct</i>	-2,750.78	
			<i>For Class 54 Rating, Add</i>	3,789.74	
			<i>For Class 55 Rating, Add</i>	5,653.93	
			<i>For Class 56 Rating, Add</i>	7,493.11	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
40 05 19 00-2478 EA 30" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,014.05	2,131.76
<i>For Class 52 Rating, Deduct</i>	-2,836.25	
<i>For Class 54 Rating, Add</i>	3,906.38	
<i>For Class 55 Rating, Add</i>	5,827.38	
<i>For Class 56 Rating, Add</i>	7,722.59	
40 05 19 00-2479 EA 30" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,798.52	2,136.68
<i>For Class 52 Rating, Deduct</i>	-2,921.72	
<i>For Class 54 Rating, Add</i>	4,023.02	
<i>For Class 55 Rating, Add</i>	6,000.83	
<i>For Class 56 Rating, Add</i>	7,952.08	
40 05 19 00-2480 EA 30" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,582.97	2,141.60
<i>For Class 52 Rating, Deduct</i>	-3,007.19	
<i>For Class 54 Rating, Add</i>	4,139.66	
<i>For Class 55 Rating, Add</i>	6,174.28	
<i>For Class 56 Rating, Add</i>	8,181.56	
40 05 19 00-2481 EA 30" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,367.43	2,146.53
<i>For Class 52 Rating, Deduct</i>	-3,092.66	
<i>For Class 54 Rating, Add</i>	4,256.30	
<i>For Class 55 Rating, Add</i>	6,347.73	
<i>For Class 56 Rating, Add</i>	8,411.04	
40 05 19 00-2482 EA 30" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,151.89	2,151.45
<i>For Class 52 Rating, Deduct</i>	-3,178.13	
<i>For Class 54 Rating, Add</i>	4,372.94	
<i>For Class 55 Rating, Add</i>	6,521.18	
<i>For Class 56 Rating, Add</i>	8,640.53	
40 05 19 00-2483 EA 30" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,936.35	2,156.37
<i>For Class 52 Rating, Deduct</i>	-3,263.60	
<i>For Class 54 Rating, Add</i>	4,489.57	
<i>For Class 55 Rating, Add</i>	6,694.63	
<i>For Class 56 Rating, Add</i>	8,870.01	
40 05 19 00-2484 EA 30" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,720.81	2,161.30
<i>For Class 52 Rating, Deduct</i>	-3,349.07	
<i>For Class 54 Rating, Add</i>	4,606.21	
<i>For Class 55 Rating, Add</i>	6,868.08	
<i>For Class 56 Rating, Add</i>	9,099.49	
40 05 19 00-2485 EA 30" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,505.27	2,166.22
<i>For Class 52 Rating, Deduct</i>	-3,434.54	
<i>For Class 54 Rating, Add</i>	4,722.85	
<i>For Class 55 Rating, Add</i>	7,041.53	
<i>For Class 56 Rating, Add</i>	9,328.98	
40 05 19 00-2486 EA 30" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,289.73	2,171.14
<i>For Class 52 Rating, Deduct</i>	-3,520.01	
<i>For Class 54 Rating, Add</i>	4,839.49	
<i>For Class 55 Rating, Add</i>	7,214.98	
<i>For Class 56 Rating, Add</i>	9,558.46	
40 05 19 00-2487 EA 30" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,074.19	2,176.06
<i>For Class 52 Rating, Deduct</i>	-3,605.48	
<i>For Class 54 Rating, Add</i>	4,956.13	
<i>For Class 55 Rating, Add</i>	7,388.43	
<i>For Class 56 Rating, Add</i>	9,787.94	
40 05 19 00-2488 EA 30" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,858.65	2,180.99
<i>For Class 52 Rating, Deduct</i>	-3,690.95	
<i>For Class 54 Rating, Add</i>	5,072.77	
<i>For Class 55 Rating, Add</i>	7,561.88	
<i>For Class 56 Rating, Add</i>	10,017.43	
40 05 19 00-2489 EA 30" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,643.10	2,185.92
<i>For Class 52 Rating, Deduct</i>	-3,776.42	
<i>For Class 54 Rating, Add</i>	5,189.41	
<i>For Class 55 Rating, Add</i>	7,735.33	
<i>For Class 56 Rating, Add</i>	10,246.91	
40 05 19 00-2490 EA 30" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,427.57	2,190.83
<i>For Class 52 Rating, Deduct</i>	-3,861.89	
<i>For Class 54 Rating, Add</i>	5,306.05	
<i>For Class 55 Rating, Add</i>	7,908.78	
<i>For Class 56 Rating, Add</i>	10,476.40	
40 05 19 00-2491 EA 30" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,212.02	2,195.76
<i>For Class 52 Rating, Deduct</i>	-3,947.36	
<i>For Class 54 Rating, Add</i>	5,422.69	
<i>For Class 55 Rating, Add</i>	8,082.23	
<i>For Class 56 Rating, Add</i>	10,705.88	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2492		<b>36" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small>		
40 05 19 00-2493	EA	36" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	17,391.63	2,569.92
		For Class 52 Rating, Deduct	-1,484.76	
		For Class 54 Rating, Add	2,071.40	
		For Class 55 Rating, Add	3,103.46	
		For Class 56 Rating, Add	4,122.03	
40 05 19 00-2494	EA	36" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	18,441.91	2,574.84
		For Class 52 Rating, Deduct	-1,599.47	
		For Class 54 Rating, Add	2,227.91	
		For Class 55 Rating, Add	3,336.19	
		For Class 56 Rating, Add	4,429.93	
40 05 19 00-2495	EA	36" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	19,492.19	2,579.77
		For Class 52 Rating, Deduct	-1,714.18	
		For Class 54 Rating, Add	2,384.42	
		For Class 55 Rating, Add	3,568.92	
		For Class 56 Rating, Add	4,737.83	
40 05 19 00-2496	EA	36" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	20,542.46	2,584.70
		For Class 52 Rating, Deduct	-1,828.89	
		For Class 54 Rating, Add	2,540.93	
		For Class 55 Rating, Add	3,801.64	
		For Class 56 Rating, Add	5,045.73	
40 05 19 00-2497	EA	36" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	21,592.74	2,589.61
		For Class 52 Rating, Deduct	-1,943.60	
		For Class 54 Rating, Add	2,697.45	
		For Class 55 Rating, Add	4,034.37	
		For Class 56 Rating, Add	5,353.63	
40 05 19 00-2498	EA	36" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	22,643.01	2,594.54
		For Class 52 Rating, Deduct	-2,058.31	
		For Class 54 Rating, Add	2,853.96	
		For Class 55 Rating, Add	4,267.10	
		For Class 56 Rating, Add	5,661.53	
40 05 19 00-2499	EA	36" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	23,693.29	2,599.46
		For Class 52 Rating, Deduct	-2,173.02	
		For Class 54 Rating, Add	3,010.47	
		For Class 55 Rating, Add	4,499.83	
		For Class 56 Rating, Add	5,969.43	
40 05 19 00-2500	EA	36" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	24,743.56	2,604.39
		For Class 52 Rating, Deduct	-2,287.73	
		For Class 54 Rating, Add	3,166.98	
		For Class 55 Rating, Add	4,732.55	
		For Class 56 Rating, Add	6,277.33	
40 05 19 00-2501	EA	36" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	25,793.84	2,609.31
		For Class 52 Rating, Deduct	-2,402.44	
		For Class 54 Rating, Add	3,323.49	
		For Class 55 Rating, Add	4,965.28	
		For Class 56 Rating, Add	6,585.23	
40 05 19 00-2502	EA	36" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	26,844.11	2,614.23
		For Class 52 Rating, Deduct	-2,517.15	
		For Class 54 Rating, Add	3,480.00	
		For Class 55 Rating, Add	5,198.01	
		For Class 56 Rating, Add	6,893.12	
40 05 19 00-2503	EA	36" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	27,894.39	2,619.16
		For Class 52 Rating, Deduct	-2,631.86	
		For Class 54 Rating, Add	3,636.52	
		For Class 55 Rating, Add	5,430.73	
		For Class 56 Rating, Add	7,201.02	
40 05 19 00-2504	EA	36" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,944.66	2,624.08
		For Class 52 Rating, Deduct	-2,746.57	
		For Class 54 Rating, Add	3,793.03	
		For Class 55 Rating, Add	5,663.46	
		For Class 56 Rating, Add	7,508.92	
40 05 19 00-2505	EA	36" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	29,994.93	2,629.00
		For Class 52 Rating, Deduct	-2,861.28	
		For Class 54 Rating, Add	3,949.54	
		For Class 55 Rating, Add	5,896.19	
		For Class 56 Rating, Add	7,816.82	
40 05 19 00-2506	EA	36" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	31,045.21	2,633.93
		For Class 52 Rating, Deduct	-2,975.99	
		For Class 54 Rating, Add	4,106.05	
		For Class 55 Rating, Add	6,128.91	
		For Class 56 Rating, Add	8,124.72	





<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2507 EA 36" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,095.48	2,638.85
For Class 52 Rating, Deduct	-3,090.70	
For Class 54 Rating, Add	4,262.56	
For Class 55 Rating, Add	6,361.64	
For Class 56 Rating, Add	8,432.62	
40 05 19 00-2508 EA 36" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,145.76	2,643.77
For Class 52 Rating, Deduct	-3,205.40	
For Class 54 Rating, Add	4,419.07	
For Class 55 Rating, Add	6,594.37	
For Class 56 Rating, Add	8,740.52	
40 05 19 00-2509 EA 36" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	34,196.03	2,648.69
For Class 52 Rating, Deduct	-3,320.11	
For Class 54 Rating, Add	4,575.59	
For Class 55 Rating, Add	6,827.09	
For Class 56 Rating, Add	9,048.42	
40 05 19 00-2510 EA 36" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,246.30	2,653.62
For Class 52 Rating, Deduct	-3,434.82	
For Class 54 Rating, Add	4,732.10	
For Class 55 Rating, Add	7,059.82	
For Class 56 Rating, Add	9,356.32	
40 05 19 00-2511 EA 36" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,296.59	2,658.54
For Class 52 Rating, Deduct	-3,549.53	
For Class 54 Rating, Add	4,888.61	
For Class 55 Rating, Add	7,292.55	
For Class 56 Rating, Add	9,664.22	
40 05 19 00-2512 EA 36" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,346.86	2,663.46
For Class 52 Rating, Deduct	-3,664.24	
For Class 54 Rating, Add	5,045.12	
For Class 55 Rating, Add	7,525.28	
For Class 56 Rating, Add	9,972.12	
40 05 19 00-2513 EA 36" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,397.13	2,668.39
For Class 52 Rating, Deduct	-3,778.95	
For Class 54 Rating, Add	5,201.63	
For Class 55 Rating, Add	7,758.00	
For Class 56 Rating, Add	10,280.01	
40 05 19 00-2514 EA 36" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,447.41	2,673.31
For Class 52 Rating, Deduct	-3,893.66	
For Class 54 Rating, Add	5,358.15	
For Class 55 Rating, Add	7,990.73	
For Class 56 Rating, Add	10,587.91	
40 05 19 00-2515 EA 36" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	40,497.68	2,678.24
For Class 52 Rating, Deduct	-4,008.37	
For Class 54 Rating, Add	5,514.66	
For Class 55 Rating, Add	8,223.45	
For Class 56 Rating, Add	10,895.81	
40 05 19 00-2516 EA 36" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,547.96	2,683.15
For Class 52 Rating, Deduct	-4,123.08	
For Class 54 Rating, Add	5,671.17	
For Class 55 Rating, Add	8,456.18	
For Class 56 Rating, Add	11,203.71	
40 05 19 00-2517 EA 36" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,598.23	2,688.08
For Class 52 Rating, Deduct	-4,237.79	
For Class 54 Rating, Add	5,827.68	
For Class 55 Rating, Add	8,688.91	
For Class 56 Rating, Add	11,511.61	
40 05 19 00-2518 EA 36" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	43,648.51	2,693.01
For Class 52 Rating, Deduct	-4,352.50	
For Class 54 Rating, Add	5,984.19	
For Class 55 Rating, Add	8,921.64	
For Class 56 Rating, Add	11,819.51	
40 05 19 00-2519 EA 36" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,698.78	2,697.92
For Class 52 Rating, Deduct	-4,467.21	
For Class 54 Rating, Add	6,140.70	
For Class 55 Rating, Add	9,154.36	
For Class 56 Rating, Add	12,127.41	
40 05 19 00-2520 EA 36" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	45,749.06	2,702.85
For Class 52 Rating, Deduct	-4,581.92	
For Class 54 Rating, Add	6,297.22	
For Class 55 Rating, Add	9,387.09	
For Class 56 Rating, Add	12,435.31	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2521	EA		36" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	46,799.32	2,707.77
			<i>For Class 52 Rating, Deduct</i> .....	-4,696.63	
			<i>For Class 54 Rating, Add</i> .....	6,453.73	
			<i>For Class 55 Rating, Add</i> .....	9,619.82	
			<i>For Class 56 Rating, Add</i> .....	12,743.21	
40 05 19 00-2522	EA		36" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	47,849.61	2,712.70
			<i>For Class 52 Rating, Deduct</i> .....	-4,811.34	
			<i>For Class 54 Rating, Add</i> .....	6,610.24	
			<i>For Class 55 Rating, Add</i> .....	9,852.54	
			<i>For Class 56 Rating, Add</i> .....	13,051.11	
40 05 19 00-2523	EA		36" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	48,899.87	2,717.62
			<i>For Class 52 Rating, Deduct</i> .....	-4,926.05	
			<i>For Class 54 Rating, Add</i> .....	6,766.75	
			<i>For Class 55 Rating, Add</i> .....	10,085.27	
			<i>For Class 56 Rating, Add</i> .....	13,359.00	
40 05 19 00-2524	EA		36" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	49,950.16	2,722.54
			<i>For Class 52 Rating, Deduct</i> .....	-5,040.76	
			<i>For Class 54 Rating, Add</i> .....	6,923.26	
			<i>For Class 55 Rating, Add</i> .....	10,318.00	
			<i>For Class 56 Rating, Add</i> .....	13,666.90	
40 05 19 00-2525	EA		36" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	51,000.43	2,727.47
			<i>For Class 52 Rating, Deduct</i> .....	-5,155.47	
			<i>For Class 54 Rating, Add</i> .....	7,079.78	
			<i>For Class 55 Rating, Add</i> .....	10,550.72	
			<i>For Class 56 Rating, Add</i> .....	13,974.80	
40 05 19 00-2526	EA		36" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	52,050.70	2,732.39
			<i>For Class 52 Rating, Deduct</i> .....	-5,270.18	
			<i>For Class 54 Rating, Add</i> .....	7,236.29	
			<i>For Class 55 Rating, Add</i> .....	10,783.45	
			<i>For Class 56 Rating, Add</i> .....	14,282.70	
40 05 19 00-2527	EA		36" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	53,100.99	2,737.31
			<i>For Class 52 Rating, Deduct</i> .....	-5,384.89	
			<i>For Class 54 Rating, Add</i> .....	7,392.80	
			<i>For Class 55 Rating, Add</i> .....	11,016.18	
			<i>For Class 56 Rating, Add</i> .....	14,590.60	
40 05 19 00-2528			<b>42" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2060)</small>		
40 05 19 00-2529	EA		42" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	22,914.76	3,239.49
			<i>For Class 52 Rating, Deduct</i> .....	-1,980.71	
			<i>For Class 54 Rating, Add</i> .....	2,759.87	
			<i>For Class 55 Rating, Add</i> .....	4,133.24	
			<i>For Class 56 Rating, Add</i> .....	5,488.60	
40 05 19 00-2530	EA		42" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	24,455.78	3,244.40
			<i>For Class 52 Rating, Deduct</i> .....	-2,149.40	
			<i>For Class 54 Rating, Add</i> .....	2,989.99	
			<i>For Class 55 Rating, Add</i> .....	4,475.40	
			<i>For Class 56 Rating, Add</i> .....	5,941.27	
40 05 19 00-2531	EA		42" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	25,984.01	3,249.33
			<i>For Class 52 Rating, Deduct</i> .....	-2,316.69	
			<i>For Class 54 Rating, Add</i> .....	3,218.20	
			<i>For Class 55 Rating, Add</i> .....	4,814.71	
			<i>For Class 56 Rating, Add</i> .....	6,390.17	
40 05 19 00-2532	EA		42" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	27,527.57	3,254.25
			<i>For Class 52 Rating, Deduct</i> .....	-2,485.66	
			<i>For Class 54 Rating, Add</i> .....	3,448.70	
			<i>For Class 55 Rating, Add</i> .....	5,157.44	
			<i>For Class 56 Rating, Add</i> .....	6,843.59	
40 05 19 00-2533	EA		42" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	29,060.92	3,259.18
			<i>For Class 52 Rating, Deduct</i> .....	-2,653.50	
			<i>For Class 54 Rating, Add</i> .....	3,677.67	
			<i>For Class 55 Rating, Add</i> .....	5,497.89	
			<i>For Class 56 Rating, Add</i> .....	7,293.99	
40 05 19 00-2534	EA		42" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	30,609.59	3,264.09
			<i>For Class 52 Rating, Deduct</i> .....	-2,823.04	
			<i>For Class 54 Rating, Add</i> .....	3,908.95	
			<i>For Class 55 Rating, Add</i> .....	5,841.76	
			<i>For Class 56 Rating, Add</i> .....	7,748.92	



<b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>
<b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span>
Ductile Iron Process Pipe 40 05 19 <span style="float: right;"><b>40</b></span>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2535 EA 42" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	32,142.94	3,269.02
<i>For Class 52 Rating, Deduct</i>	-2,990.89	
<i>For Class 54 Rating, Add</i>	4,137.92	
<i>For Class 55 Rating, Add</i>	6,182.22	
<i>For Class 56 Rating, Add</i>	8,199.32	
40 05 19 00-2536 EA 42" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,694.17	3,273.95
<i>For Class 52 Rating, Deduct</i>	-3,160.70	
<i>For Class 54 Rating, Add</i>	4,369.57	
<i>For Class 55 Rating, Add</i>	6,526.66	
<i>For Class 56 Rating, Add</i>	8,655.01	
40 05 19 00-2537 EA 42" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,232.63	3,278.86
<i>For Class 52 Rating, Deduct</i>	-3,329.11	
<i>For Class 54 Rating, Add</i>	4,599.31	
<i>For Class 55 Rating, Add</i>	6,868.25	
<i>For Class 56 Rating, Add</i>	9,106.92	
40 05 19 00-2538 EA 42" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	36,783.86	3,283.79
<i>For Class 52 Rating, Deduct</i>	-3,498.93	
<i>For Class 54 Rating, Add</i>	4,830.97	
<i>For Class 55 Rating, Add</i>	7,212.69	
<i>For Class 56 Rating, Add</i>	9,562.60	
40 05 19 00-2539 EA 42" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	38,322.32	3,288.71
<i>For Class 52 Rating, Deduct</i>	-3,667.34	
<i>For Class 54 Rating, Add</i>	5,060.71	
<i>For Class 55 Rating, Add</i>	7,554.28	
<i>For Class 56 Rating, Add</i>	10,014.51	
40 05 19 00-2540 EA 42" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,876.11	3,293.64
<i>For Class 52 Rating, Deduct</i>	-3,837.43	
<i>For Class 54 Rating, Add</i>	5,292.75	
<i>For Class 55 Rating, Add</i>	7,899.29	
<i>For Class 56 Rating, Add</i>	10,470.95	
40 05 19 00-2541 EA 42" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	41,414.57	3,298.56
<i>For Class 52 Rating, Deduct</i>	-4,005.84	
<i>For Class 54 Rating, Add</i>	5,522.49	
<i>For Class 55 Rating, Add</i>	8,240.88	
<i>For Class 56 Rating, Add</i>	10,922.86	
40 05 19 00-2542 EA 42" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,958.14	3,303.48
<i>For Class 52 Rating, Deduct</i>	-4,174.81	
<i>For Class 54 Rating, Add</i>	5,752.99	
<i>For Class 55 Rating, Add</i>	8,583.61	
<i>For Class 56 Rating, Add</i>	11,376.28	
40 05 19 00-2543 EA 42" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,509.36	3,308.41
<i>For Class 52 Rating, Deduct</i>	-4,344.63	
<i>For Class 54 Rating, Add</i>	5,984.65	
<i>For Class 55 Rating, Add</i>	8,928.05	
<i>For Class 56 Rating, Add</i>	11,831.96	
40 05 19 00-2544 EA 42" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	46,050.38	3,313.33
<i>For Class 52 Rating, Deduct</i>	-4,513.32	
<i>For Class 54 Rating, Add</i>	6,214.77	
<i>For Class 55 Rating, Add</i>	9,270.21	
<i>For Class 56 Rating, Add</i>	12,284.63	
40 05 19 00-2545 EA 42" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	47,609.28	3,318.25
<i>For Class 52 Rating, Deduct</i>	-4,683.98	
<i>For Class 54 Rating, Add</i>	6,447.58	
<i>For Class 55 Rating, Add</i>	9,616.37	
<i>For Class 56 Rating, Add</i>	12,742.58	
40 05 19 00-2546 EA 42" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	49,152.86	3,323.18
<i>For Class 52 Rating, Deduct</i>	-4,852.95	
<i>For Class 54 Rating, Add</i>	6,678.08	
<i>For Class 55 Rating, Add</i>	9,959.10	
<i>For Class 56 Rating, Add</i>	13,196.00	
40 05 19 00-2547 EA 42" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	50,709.20	3,328.10
<i>For Class 52 Rating, Deduct</i>	-5,023.33	
<i>For Class 54 Rating, Add</i>	6,910.50	
<i>For Class 55 Rating, Add</i>	10,304.68	
<i>For Class 56 Rating, Add</i>	13,653.19	
40 05 19 00-2548 EA 42" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	52,250.20	3,333.02
<i>For Class 52 Rating, Deduct</i>	-5,192.02	
<i>For Class 54 Rating, Add</i>	7,140.63	
<i>For Class 55 Rating, Add</i>	10,646.84	
<i>For Class 56 Rating, Add</i>	14,105.85	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2549	EA		42" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	53,811.67	3,337.94
			<i>For Class 52 Rating, Deduct</i> .....	-5,362.96	
			<i>For Class 54 Rating, Add</i> .....	7,373.82	
			<i>For Class 55 Rating, Add</i> .....	10,993.56	
			<i>For Class 56 Rating, Add</i> .....	14,564.55	
40 05 19 00-2550	EA		42" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	55,355.23	3,342.87
			<i>For Class 52 Rating, Deduct</i> .....	-5,531.93	
			<i>For Class 54 Rating, Add</i> .....	7,604.32	
			<i>For Class 55 Rating, Add</i> .....	11,336.29	
			<i>For Class 56 Rating, Add</i> .....	15,017.97	
40 05 19 00-2551	EA		42" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	56,911.58	3,347.80
			<i>For Class 52 Rating, Deduct</i> .....	-5,702.31	
			<i>For Class 54 Rating, Add</i> .....	7,836.74	
			<i>For Class 55 Rating, Add</i> .....	11,681.87	
			<i>For Class 56 Rating, Add</i> .....	15,475.16	
40 05 19 00-2552	EA		42" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	58,455.15	3,352.71
			<i>For Class 52 Rating, Deduct</i> .....	-5,871.28	
			<i>For Class 54 Rating, Add</i> .....	8,067.25	
			<i>For Class 55 Rating, Add</i> .....	12,024.60	
			<i>For Class 56 Rating, Add</i> .....	15,928.58	
40 05 19 00-2553	EA		42" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	60,016.61	3,357.64
			<i>For Class 52 Rating, Deduct</i> .....	-6,042.22	
			<i>For Class 54 Rating, Add</i> .....	8,300.44	
			<i>For Class 55 Rating, Add</i> .....	12,371.33	
			<i>For Class 56 Rating, Add</i> .....	16,387.28	
40 05 19 00-2554	EA		42" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	61,560.18	3,362.56
			<i>For Class 52 Rating, Deduct</i> .....	-6,211.19	
			<i>For Class 54 Rating, Add</i> .....	8,530.94	
			<i>For Class 55 Rating, Add</i> .....	12,714.05	
			<i>For Class 56 Rating, Add</i> .....	16,840.70	
40 05 19 00-2555	EA		42" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	63,116.52	3,367.49
			<i>For Class 52 Rating, Deduct</i> .....	-6,381.57	
			<i>For Class 54 Rating, Add</i> .....	8,763.37	
			<i>For Class 55 Rating, Add</i> .....	13,059.64	
			<i>For Class 56 Rating, Add</i> .....	17,297.89	
40 05 19 00-2556	EA		42" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	64,662.65	3,372.41
			<i>For Class 52 Rating, Deduct</i> .....	-6,550.82	
			<i>For Class 54 Rating, Add</i> .....	8,994.26	
			<i>For Class 55 Rating, Add</i> .....	13,402.94	
			<i>For Class 56 Rating, Add</i> .....	17,752.07	
40 05 19 00-2557	EA		42" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	65,914.84	3,377.33
			<i>For Class 52 Rating, Deduct</i> .....	-6,687.74	
			<i>For Class 54 Rating, Add</i> .....	9,181.06	
			<i>For Class 55 Rating, Add</i> .....	13,680.69	
			<i>For Class 56 Rating, Add</i> .....	18,119.53	
40 05 19 00-2558	EA		42" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	67,767.67	3,382.26
			<i>For Class 52 Rating, Deduct</i> .....	-6,890.73	
			<i>For Class 54 Rating, Add</i> .....	9,457.95	
			<i>For Class 55 Rating, Add</i> .....	14,092.39	
			<i>For Class 56 Rating, Add</i> .....	18,664.18	
40 05 19 00-2559	EA		42" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	69,311.23	3,387.17
			<i>For Class 52 Rating, Deduct</i> .....	-7,059.71	
			<i>For Class 54 Rating, Add</i> .....	9,688.46	
			<i>For Class 55 Rating, Add</i> .....	14,435.12	
			<i>For Class 56 Rating, Add</i> .....	19,117.60	
40 05 19 00-2560	EA		42" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	70,870.14	3,392.10
			<i>For Class 52 Rating, Deduct</i> .....	-7,230.36	
			<i>For Class 54 Rating, Add</i> .....	9,921.26	
			<i>For Class 55 Rating, Add</i> .....	14,781.27	
			<i>For Class 56 Rating, Add</i> .....	19,575.55	
40 05 19 00-2561	EA		42" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	72,416.26	3,397.03
			<i>For Class 52 Rating, Deduct</i> .....	-7,399.62	
			<i>For Class 54 Rating, Add</i> .....	10,152.15	
			<i>For Class 55 Rating, Add</i> .....	15,124.57	
			<i>For Class 56 Rating, Add</i> .....	20,029.72	
40 05 19 00-2562	EA		42" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	73,977.73	3,401.95
			<i>For Class 52 Rating, Deduct</i> .....	-7,570.56	
			<i>For Class 54 Rating, Add</i> .....	10,385.34	
			<i>For Class 55 Rating, Add</i> .....	15,471.29	
			<i>For Class 56 Rating, Add</i> .....	20,488.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2563 EA 42" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	75,518.74	3,406.87
For Class 52 Rating, Deduct	-7,739.25	
For Class 54 Rating, Add	10,615.46	
For Class 55 Rating, Add	15,813.45	
For Class 56 Rating, Add	20,941.09	
<b>40 05 19 00-2564 48" Flanged End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b>		
(40 05 19 00-2060)		
40 05 19 00-2565 EA 48" Flanged (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	28,745.39	4,071.51
For Class 52 Rating, Deduct	-2,483.41	
For Class 54 Rating, Add	3,460.49	
For Class 55 Rating, Add	5,182.60	
For Class 56 Rating, Add	6,882.13	
40 05 19 00-2566 EA 48" Flanged (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	30,945.83	4,076.43
For Class 52 Rating, Deduct	-2,724.64	
For Class 54 Rating, Add	3,789.53	
For Class 55 Rating, Add	5,671.81	
For Class 56 Rating, Add	7,529.33	
40 05 19 00-2567 EA 48" Flanged (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	33,151.38	4,081.35
For Class 52 Rating, Deduct	-2,966.43	
For Class 54 Rating, Add	4,119.33	
For Class 55 Rating, Add	6,162.17	
For Class 56 Rating, Add	8,178.03	
40 05 19 00-2568 EA 48" Flanged (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	35,382.49	4,086.28
For Class 52 Rating, Deduct	-3,211.03	
For Class 54 Rating, Add	4,452.97	
For Class 55 Rating, Add	6,658.22	
For Class 56 Rating, Add	8,834.28	
40 05 19 00-2569 EA 48" Flanged (FxF), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	37,605.92	4,091.20
For Class 52 Rating, Deduct	-3,454.79	
For Class 54 Rating, Add	4,785.46	
For Class 55 Rating, Add	7,152.56	
For Class 56 Rating, Add	9,488.26	
40 05 19 00-2570 EA 48" Flanged (FxF), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	39,834.49	4,096.12
For Class 52 Rating, Deduct	-3,699.11	
For Class 54 Rating, Add	5,118.71	
For Class 55 Rating, Add	7,648.05	
For Class 56 Rating, Add	10,143.76	
40 05 19 00-2571 EA 48" Flanged (FxF), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	42,078.37	4,101.04
For Class 52 Rating, Deduct	-3,945.11	
For Class 54 Rating, Add	5,454.26	
For Class 55 Rating, Add	8,146.95	
For Class 56 Rating, Add	10,803.77	
40 05 19 00-2572 EA 48" Flanged (FxF), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	44,317.16	4,105.97
For Class 52 Rating, Deduct	-4,190.56	
For Class 54 Rating, Add	5,789.05	
For Class 55 Rating, Add	8,644.71	
For Class 56 Rating, Add	11,462.28	
40 05 19 00-2573 EA 48" Flanged (FxF), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	46,553.38	4,110.90
For Class 52 Rating, Deduct	-4,435.72	
For Class 54 Rating, Add	6,123.46	
For Class 55 Rating, Add	9,141.91	
For Class 56 Rating, Add	12,120.03	
40 05 19 00-2574 EA 48" Flanged (FxF), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	48,812.60	4,115.81
For Class 52 Rating, Deduct	-4,683.42	
For Class 54 Rating, Add	6,461.31	
For Class 55 Rating, Add	9,644.23	
For Class 56 Rating, Add	12,784.57	
40 05 19 00-2575 EA 48" Flanged (FxF), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	51,056.50	4,120.74
For Class 52 Rating, Deduct	-4,929.42	
For Class 54 Rating, Add	6,796.87	
For Class 55 Rating, Add	10,143.13	
For Class 56 Rating, Add	13,444.59	
40 05 19 00-2576 EA 48" Flanged (FxF), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	53,318.27	4,125.66
For Class 52 Rating, Deduct	-5,177.40	
For Class 54 Rating, Add	7,135.10	
For Class 55 Rating, Add	10,646.03	
For Class 56 Rating, Add	14,109.88	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2577	EA		48" Flanged (FxF), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	55,567.27	4,130.59
			<i>For Class 52 Rating, Deduct</i> .....	-5,423.97	
			<i>For Class 54 Rating, Add</i> .....	7,471.42	
			<i>For Class 55 Rating, Add</i> .....	11,146.07	
			<i>For Class 56 Rating, Add</i> .....	14,771.40	
40 05 19 00-2578	EA		48" Flanged (FxF), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	57,818.83	4,135.51
			<i>For Class 52 Rating, Deduct</i> .....	-5,670.82	
			<i>For Class 54 Rating, Add</i> .....	7,808.13	
			<i>For Class 55 Rating, Add</i> .....	11,646.68	
			<i>For Class 56 Rating, Add</i> .....	15,433.68	
40 05 19 00-2579	EA		48" Flanged (FxF), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	60,085.72	4,140.43
			<i>For Class 52 Rating, Deduct</i> .....	-5,919.36	
			<i>For Class 54 Rating, Add</i> .....	8,147.13	
			<i>For Class 55 Rating, Add</i> .....	12,150.71	
			<i>For Class 56 Rating, Add</i> .....	16,100.48	
40 05 19 00-2580	EA		48" Flanged (FxF), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	62,342.39	4,145.36
			<i>For Class 52 Rating, Deduct</i> .....	-6,166.77	
			<i>For Class 54 Rating, Add</i> .....	8,484.60	
			<i>For Class 55 Rating, Add</i> .....	12,652.47	
			<i>For Class 56 Rating, Add</i> .....	16,764.27	
40 05 19 00-2581	EA		48" Flanged (FxF), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	64,596.50	4,150.27
			<i>For Class 52 Rating, Deduct</i> .....	-6,413.90	
			<i>For Class 54 Rating, Add</i> .....	8,821.69	
			<i>For Class 55 Rating, Add</i> .....	13,153.65	
			<i>For Class 56 Rating, Add</i> .....	17,427.30	
40 05 19 00-2582	EA		48" Flanged (FxF), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	66,868.51	4,155.20
			<i>For Class 52 Rating, Deduct</i> .....	-6,663.00	
			<i>For Class 54 Rating, Add</i> .....	9,161.46	
			<i>For Class 55 Rating, Add</i> .....	13,658.82	
			<i>For Class 56 Rating, Add</i> .....	18,095.61	
40 05 19 00-2583	EA		48" Flanged (FxF), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	69,127.73	4,160.13
			<i>For Class 52 Rating, Deduct</i> .....	-6,910.70	
			<i>For Class 54 Rating, Add</i> .....	9,499.32	
			<i>For Class 55 Rating, Add</i> .....	14,161.14	
			<i>For Class 56 Rating, Add</i> .....	18,760.15	
40 05 19 00-2584	EA		48" Flanged (FxF), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	71,384.40	4,165.05
			<i>For Class 52 Rating, Deduct</i> .....	-7,158.11	
			<i>For Class 54 Rating, Add</i> .....	9,836.79	
			<i>For Class 55 Rating, Add</i> .....	14,662.90	
			<i>For Class 56 Rating, Add</i> .....	19,423.93	
40 05 19 00-2585	EA		48" Flanged (FxF), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	73,658.95	4,169.97
			<i>For Class 52 Rating, Deduct</i> .....	-7,407.49	
			<i>For Class 54 Rating, Add</i> .....	10,176.94	
			<i>For Class 55 Rating, Add</i> .....	15,168.64	
			<i>For Class 56 Rating, Add</i> .....	20,092.99	
40 05 19 00-2586	EA		48" Flanged (FxF), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	75,923.30	4,174.89
			<i>For Class 52 Rating, Deduct</i> .....	-7,655.75	
			<i>For Class 54 Rating, Add</i> .....	10,515.56	
			<i>For Class 55 Rating, Add</i> .....	15,672.10	
			<i>For Class 56 Rating, Add</i> .....	20,759.04	
40 05 19 00-2587	EA		48" Flanged (FxF), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	78,182.52	4,179.82
			<i>For Class 52 Rating, Deduct</i> .....	-7,903.44	
			<i>For Class 54 Rating, Add</i> .....	10,853.42	
			<i>For Class 55 Rating, Add</i> .....	16,174.43	
			<i>For Class 56 Rating, Add</i> .....	21,423.58	
40 05 19 00-2588	EA		48" Flanged (FxF), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	80,459.64	4,184.74
			<i>For Class 52 Rating, Deduct</i> .....	-8,153.10	
			<i>For Class 54 Rating, Add</i> .....	11,193.95	
			<i>For Class 55 Rating, Add</i> .....	16,680.74	
			<i>For Class 56 Rating, Add</i> .....	22,093.40	
40 05 19 00-2589	EA		48" Flanged (FxF), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	82,723.98	4,189.66
			<i>For Class 52 Rating, Deduct</i> .....	-8,401.36	
			<i>For Class 54 Rating, Add</i> .....	11,532.58	
			<i>For Class 55 Rating, Add</i> .....	17,184.20	
			<i>For Class 56 Rating, Add</i> .....	22,759.45	
40 05 19 00-2590	EA		48" Flanged (FxF), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	84,985.75	4,194.59
			<i>For Class 52 Rating, Deduct</i> .....	-8,649.34	
			<i>For Class 54 Rating, Add</i> .....	11,870.81	
			<i>For Class 55 Rating, Add</i> .....	17,687.09	
			<i>For Class 56 Rating, Add</i> .....	23,424.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2591 EA 48" Flanged (FxF), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	87,265.44	4,199.51
For Class 52 Rating, Deduct	-8,899.28	
For Class 54 Rating, Add	12,211.74	
For Class 55 Rating, Add	18,193.98	
For Class 56 Rating, Add	24,095.31	
40 05 19 00-2592 EA 48" Flanged (FxF), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	89,532.32	4,204.43
For Class 52 Rating, Deduct	-9,147.82	
For Class 54 Rating, Add	12,550.74	
For Class 55 Rating, Add	18,698.01	
For Class 56 Rating, Add	24,762.11	
40 05 19 00-2593 EA 48" Flanged (FxF), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	91,533.40	4,209.35
For Class 52 Rating, Deduct	-9,367.11	
For Class 54 Rating, Add	12,849.87	
For Class 55 Rating, Add	19,142.76	
For Class 56 Rating, Add	25,350.50	
40 05 19 00-2594 EA 48" Flanged (FxF), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	94,078.89	4,214.28
For Class 52 Rating, Deduct	-9,646.30	
For Class 54 Rating, Add	13,230.67	
For Class 55 Rating, Add	19,708.92	
For Class 56 Rating, Add	26,099.49	
40 05 19 00-2595 EA 48" Flanged (FxF), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	96,343.22	4,219.21
For Class 52 Rating, Deduct	-9,894.55	
For Class 54 Rating, Add	13,569.29	
For Class 55 Rating, Add	20,212.38	
For Class 56 Rating, Add	26,765.53	
40 05 19 00-2596 EA 48" Flanged (FxF), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	98,628.02	4,224.12
For Class 52 Rating, Deduct	-10,145.06	
For Class 54 Rating, Add	13,910.98	
For Class 55 Rating, Add	20,720.41	
For Class 56 Rating, Add	27,437.61	
40 05 19 00-2597 EA 48" Flanged (FxF), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	100,892.34	4,229.05
For Class 52 Rating, Deduct	-10,393.32	
For Class 54 Rating, Add	14,249.60	
For Class 55 Rating, Add	21,223.87	
For Class 56 Rating, Add	28,103.66	
40 05 19 00-2598 EA 48" Flanged (FxF), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	103,156.68	4,233.97
For Class 52 Rating, Deduct	-10,641.57	
For Class 54 Rating, Add	14,588.22	
For Class 55 Rating, Add	21,727.33	
For Class 56 Rating, Add	28,769.71	
40 05 19 00-2599 EA 48" Flanged (FxF), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	105,444.02	4,238.90
For Class 52 Rating, Deduct	-10,892.36	
For Class 54 Rating, Add	14,930.29	
For Class 55 Rating, Add	22,235.93	
For Class 56 Rating, Add	29,442.54	
40 05 19 00-2600 Flanged End x Grooved End (FxF), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2059)</small>		
40 05 19 00-2601 4" Flanged End x Grooved End (FxF), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small>		
40 05 19 00-2602 EA 4" Flanged x Grooved (FxF), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	798.86	225.29
For Class 52 Rating, Deduct	-50.33	
For Class 54 Rating, Add	72.72	
For Class 55 Rating, Add	110.22	
For Class 56 Rating, Add	147.25	
40 05 19 00-2603 EA 4" Flanged x Grooved (FxF), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	901.94	229.23
For Class 52 Rating, Deduct	-61.01	
For Class 54 Rating, Add	87.36	
For Class 55 Rating, Add	132.02	
For Class 56 Rating, Add	176.12	
40 05 19 00-2604 EA 4" Flanged x Grooved (FxF), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,005.04	233.17
For Class 52 Rating, Deduct	-71.69	
For Class 54 Rating, Add	102.00	
For Class 55 Rating, Add	153.82	
For Class 56 Rating, Add	204.99	
40 05 19 00-2605 EA 4" Flanged x Grooved (FxF), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,108.13	237.11
For Class 52 Rating, Deduct	-82.38	
For Class 54 Rating, Add	116.64	
For Class 55 Rating, Add	175.62	
For Class 56 Rating, Add	233.85	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2606	EA		4" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,211.22	241.04
			<i>For Class 52 Rating, Deduct</i>	-93.06	
			<i>For Class 54 Rating, Add</i>	131.28	
			<i>For Class 55 Rating, Add</i>	197.43	
			<i>For Class 56 Rating, Add</i>	262.72	
40 05 19 00-2607	EA		4" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,314.31	244.98
			<i>For Class 52 Rating, Deduct</i>	-103.74	
			<i>For Class 54 Rating, Add</i>	145.92	
			<i>For Class 55 Rating, Add</i>	219.23	
			<i>For Class 56 Rating, Add</i>	291.59	
40 05 19 00-2608	EA		4" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,417.41	248.92
			<i>For Class 52 Rating, Deduct</i>	-114.43	
			<i>For Class 54 Rating, Add</i>	160.56	
			<i>For Class 55 Rating, Add</i>	241.03	
			<i>For Class 56 Rating, Add</i>	320.45	
40 05 19 00-2609	EA		4" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,520.49	252.86
			<i>For Class 52 Rating, Deduct</i>	-125.11	
			<i>For Class 54 Rating, Add</i>	175.20	
			<i>For Class 55 Rating, Add</i>	262.83	
			<i>For Class 56 Rating, Add</i>	349.32	
40 05 19 00-2610	EA		4" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,623.59	256.80
			<i>For Class 52 Rating, Deduct</i>	-135.80	
			<i>For Class 54 Rating, Add</i>	189.85	
			<i>For Class 55 Rating, Add</i>	284.63	
			<i>For Class 56 Rating, Add</i>	378.19	
40 05 19 00-2611	EA		4" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,726.68	260.74
			<i>For Class 52 Rating, Deduct</i>	-146.48	
			<i>For Class 54 Rating, Add</i>	204.49	
			<i>For Class 55 Rating, Add</i>	306.43	
			<i>For Class 56 Rating, Add</i>	407.05	
40 05 19 00-2612	EA		4" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,829.78	264.67
			<i>For Class 52 Rating, Deduct</i>	-157.16	
			<i>For Class 54 Rating, Add</i>	219.13	
			<i>For Class 55 Rating, Add</i>	328.24	
			<i>For Class 56 Rating, Add</i>	435.92	
40 05 19 00-2613	EA		4" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,932.86	268.61
			<i>For Class 52 Rating, Deduct</i>	-167.85	
			<i>For Class 54 Rating, Add</i>	233.77	
			<i>For Class 55 Rating, Add</i>	350.04	
			<i>For Class 56 Rating, Add</i>	464.79	
40 05 19 00-2614	EA		4" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,035.96	272.56
			<i>For Class 52 Rating, Deduct</i>	-178.53	
			<i>For Class 54 Rating, Add</i>	248.41	
			<i>For Class 55 Rating, Add</i>	371.84	
			<i>For Class 56 Rating, Add</i>	493.65	
40 05 19 00-2615	EA		4" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,139.05	276.49
			<i>For Class 52 Rating, Deduct</i>	-189.21	
			<i>For Class 54 Rating, Add</i>	263.05	
			<i>For Class 55 Rating, Add</i>	393.64	
			<i>For Class 56 Rating, Add</i>	522.52	
40 05 19 00-2616	EA		4" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,242.15	280.43
			<i>For Class 52 Rating, Deduct</i>	-199.90	
			<i>For Class 54 Rating, Add</i>	277.69	
			<i>For Class 55 Rating, Add</i>	415.45	
			<i>For Class 56 Rating, Add</i>	551.39	
40 05 19 00-2617	EA		4" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,345.24	284.37
			<i>For Class 52 Rating, Deduct</i>	-210.58	
			<i>For Class 54 Rating, Add</i>	292.33	
			<i>For Class 55 Rating, Add</i>	437.25	
			<i>For Class 56 Rating, Add</i>	580.25	
40 05 19 00-2618	EA		4" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,448.34	288.30
			<i>For Class 52 Rating, Deduct</i>	-221.27	
			<i>For Class 54 Rating, Add</i>	306.97	
			<i>For Class 55 Rating, Add</i>	459.05	
			<i>For Class 56 Rating, Add</i>	609.12	
40 05 19 00-2619	EA		4" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,551.42	292.24
			<i>For Class 52 Rating, Deduct</i>	-231.95	
			<i>For Class 54 Rating, Add</i>	321.61	
			<i>For Class 55 Rating, Add</i>	480.85	
			<i>For Class 56 Rating, Add</i>	637.99	





<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2620 EA 4" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,654.52	296.19
<i>For Class 52 Rating, Deduct</i>	-242.63	
<i>For Class 54 Rating, Add</i>	336.25	
<i>For Class 55 Rating, Add</i>	502.65	
<i>For Class 56 Rating, Add</i>	666.85	
40 05 19 00-2621 EA 4" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,757.61	300.12
<i>For Class 52 Rating, Deduct</i>	-253.32	
<i>For Class 54 Rating, Add</i>	350.89	
<i>For Class 55 Rating, Add</i>	524.46	
<i>For Class 56 Rating, Add</i>	695.72	
40 05 19 00-2622 EA 4" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,860.71	304.06
<i>For Class 52 Rating, Deduct</i>	-264.00	
<i>For Class 54 Rating, Add</i>	365.53	
<i>For Class 55 Rating, Add</i>	546.26	
<i>For Class 56 Rating, Add</i>	724.59	
40 05 19 00-2623 EA 4" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,963.79	308.00
<i>For Class 52 Rating, Deduct</i>	-274.68	
<i>For Class 54 Rating, Add</i>	380.17	
<i>For Class 55 Rating, Add</i>	568.06	
<i>For Class 56 Rating, Add</i>	753.45	
40 05 19 00-2624 EA 4" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,066.89	311.93
<i>For Class 52 Rating, Deduct</i>	-285.37	
<i>For Class 54 Rating, Add</i>	394.81	
<i>For Class 55 Rating, Add</i>	589.86	
<i>For Class 56 Rating, Add</i>	782.32	
40 05 19 00-2625 EA 4" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,169.98	315.88
<i>For Class 52 Rating, Deduct</i>	-296.05	
<i>For Class 54 Rating, Add</i>	409.45	
<i>For Class 55 Rating, Add</i>	611.66	
<i>For Class 56 Rating, Add</i>	811.19	
40 05 19 00-2626 EA 4" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,273.07	319.82
<i>For Class 52 Rating, Deduct</i>	-306.74	
<i>For Class 54 Rating, Add</i>	424.09	
<i>For Class 55 Rating, Add</i>	633.47	
<i>For Class 56 Rating, Add</i>	840.05	
40 05 19 00-2627 EA 4" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,376.16	323.75
<i>For Class 52 Rating, Deduct</i>	-317.42	
<i>For Class 54 Rating, Add</i>	438.73	
<i>For Class 55 Rating, Add</i>	655.27	
<i>For Class 56 Rating, Add</i>	868.92	
40 05 19 00-2628 EA 4" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,479.26	327.69
<i>For Class 52 Rating, Deduct</i>	-328.10	
<i>For Class 54 Rating, Add</i>	453.37	
<i>For Class 55 Rating, Add</i>	677.07	
<i>For Class 56 Rating, Add</i>	897.79	
40 05 19 00-2629 EA 4" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,582.34	331.63
<i>For Class 52 Rating, Deduct</i>	-338.79	
<i>For Class 54 Rating, Add</i>	468.01	
<i>For Class 55 Rating, Add</i>	698.87	
<i>For Class 56 Rating, Add</i>	926.65	
40 05 19 00-2630 EA 4" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,685.44	335.57
<i>For Class 52 Rating, Deduct</i>	-349.47	
<i>For Class 54 Rating, Add</i>	482.65	
<i>For Class 55 Rating, Add</i>	720.68	
<i>For Class 56 Rating, Add</i>	955.52	
40 05 19 00-2631 EA 4" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,788.53	339.51
<i>For Class 52 Rating, Deduct</i>	-360.15	
<i>For Class 54 Rating, Add</i>	497.29	
<i>For Class 55 Rating, Add</i>	742.48	
<i>For Class 56 Rating, Add</i>	984.39	
40 05 19 00-2632 EA 4" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,891.63	343.45
<i>For Class 52 Rating, Deduct</i>	-370.84	
<i>For Class 54 Rating, Add</i>	511.93	
<i>For Class 55 Rating, Add</i>	764.28	
<i>For Class 56 Rating, Add</i>	1,013.26	
40 05 19 00-2633 EA 4" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,994.71	347.39
<i>For Class 52 Rating, Deduct</i>	-381.52	
<i>For Class 54 Rating, Add</i>	526.57	
<i>For Class 55 Rating, Add</i>	786.08	
<i>For Class 56 Rating, Add</i>	1,042.12	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2634	EA		4" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,097.82	351.32
			<i>For Class 52 Rating, Deduct</i>	-392.21	
			<i>For Class 54 Rating, Add</i>	541.21	
			<i>For Class 55 Rating, Add</i>	807.88	
			<i>For Class 56 Rating, Add</i>	1,070.99	
40 05 19 00-2635	EA		4" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,200.91	355.26
			<i>For Class 52 Rating, Deduct</i>	-402.89	
			<i>For Class 54 Rating, Add</i>	555.85	
			<i>For Class 55 Rating, Add</i>	829.69	
			<i>For Class 56 Rating, Add</i>	1,099.85	
40 05 19 00-2636	EA		4" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,304.00	359.21
			<i>For Class 52 Rating, Deduct</i>	-413.57	
			<i>For Class 54 Rating, Add</i>	570.49	
			<i>For Class 55 Rating, Add</i>	851.49	
			<i>For Class 56 Rating, Add</i>	1,128.72	
40 05 19 00-2637	EA		4" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,407.09	363.14
			<i>For Class 52 Rating, Deduct</i>	-424.26	
			<i>For Class 54 Rating, Add</i>	585.13	
			<i>For Class 55 Rating, Add</i>	873.29	
			<i>For Class 56 Rating, Add</i>	1,157.59	
40 05 19 00-2638	EA		4" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,510.19	367.08
			<i>For Class 52 Rating, Deduct</i>	-434.94	
			<i>For Class 54 Rating, Add</i>	599.78	
			<i>For Class 55 Rating, Add</i>	895.09	
			<i>For Class 56 Rating, Add</i>	1,186.46	
40 05 19 00-2639	EA		4" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,587.71	371.02
			<i>For Class 52 Rating, Deduct</i>	-442.81	
			<i>For Class 54 Rating, Add</i>	610.58	
			<i>For Class 55 Rating, Add</i>	911.19	
			<i>For Class 56 Rating, Add</i>	1,207.78	
40 05 19 00-2640	EA		4" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,716.37	374.95
			<i>For Class 52 Rating, Deduct</i>	-456.31	
			<i>For Class 54 Rating, Add</i>	629.06	
			<i>For Class 55 Rating, Add</i>	938.70	
			<i>For Class 56 Rating, Add</i>	1,244.19	

**40 05 19 00-2641 6" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe** (40 05 19 00-2600)

40 05 19 00-2642	EA		6" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,030.31	283.58
			<i>For Class 52 Rating, Deduct</i>	-66.07	
			<i>For Class 54 Rating, Add</i>	95.25	
			<i>For Class 55 Rating, Add</i>	144.25	
			<i>For Class 56 Rating, Add</i>	192.66	
40 05 19 00-2643	EA		6" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,148.73	287.51
			<i>For Class 52 Rating, Deduct</i>	-78.44	
			<i>For Class 54 Rating, Add</i>	112.19	
			<i>For Class 55 Rating, Add</i>	169.48	
			<i>For Class 56 Rating, Add</i>	226.05	
40 05 19 00-2644	EA		6" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,267.16	291.46
			<i>For Class 52 Rating, Deduct</i>	-90.81	
			<i>For Class 54 Rating, Add</i>	129.13	
			<i>For Class 55 Rating, Add</i>	194.70	
			<i>For Class 56 Rating, Add</i>	259.44	
40 05 19 00-2645	EA		6" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,385.59	295.40
			<i>For Class 52 Rating, Deduct</i>	-103.18	
			<i>For Class 54 Rating, Add</i>	146.07	
			<i>For Class 55 Rating, Add</i>	219.92	
			<i>For Class 56 Rating, Add</i>	292.83	
40 05 19 00-2646	EA		6" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,504.01	299.33
			<i>For Class 52 Rating, Deduct</i>	-115.55	
			<i>For Class 54 Rating, Add</i>	163.01	
			<i>For Class 55 Rating, Add</i>	245.14	
			<i>For Class 56 Rating, Add</i>	326.22	
40 05 19 00-2647	EA		6" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	1,622.44	303.27
			<i>For Class 52 Rating, Deduct</i>	-127.92	
			<i>For Class 54 Rating, Add</i>	179.96	
			<i>For Class 55 Rating, Add</i>	270.36	
			<i>For Class 56 Rating, Add</i>	359.61	



<b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>
<b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span>
<b>Ductile Iron Process Pipe</b> <span style="float: right;"><b>40 05 19</b></span>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2648 EA 6" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,740.87	307.21
<i>For Class 52 Rating, Deduct</i>	-140.29	
<i>For Class 54 Rating, Add</i>	196.90	
<i>For Class 55 Rating, Add</i>	295.59	
<i>For Class 56 Rating, Add</i>	393.00	
40 05 19 00-2649 EA 6" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,859.29	311.14
<i>For Class 52 Rating, Deduct</i>	-152.66	
<i>For Class 54 Rating, Add</i>	213.84	
<i>For Class 55 Rating, Add</i>	320.81	
<i>For Class 56 Rating, Add</i>	426.39	
40 05 19 00-2650 EA 6" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,977.72	315.09
<i>For Class 52 Rating, Deduct</i>	-165.04	
<i>For Class 54 Rating, Add</i>	230.78	
<i>For Class 55 Rating, Add</i>	346.03	
<i>For Class 56 Rating, Add</i>	459.78	
40 05 19 00-2651 EA 6" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,096.16	319.03
<i>For Class 52 Rating, Deduct</i>	-177.41	
<i>For Class 54 Rating, Add</i>	247.72	
<i>For Class 55 Rating, Add</i>	371.25	
<i>For Class 56 Rating, Add</i>	493.17	
40 05 19 00-2652 EA 6" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,214.59	322.96
<i>For Class 52 Rating, Deduct</i>	-189.78	
<i>For Class 54 Rating, Add</i>	264.66	
<i>For Class 55 Rating, Add</i>	396.47	
<i>For Class 56 Rating, Add</i>	526.56	
40 05 19 00-2653 EA 6" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,333.01	326.90
<i>For Class 52 Rating, Deduct</i>	-202.15	
<i>For Class 54 Rating, Add</i>	281.60	
<i>For Class 55 Rating, Add</i>	421.70	
<i>For Class 56 Rating, Add</i>	559.96	
40 05 19 00-2654 EA 6" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,451.44	330.84
<i>For Class 52 Rating, Deduct</i>	-214.52	
<i>For Class 54 Rating, Add</i>	298.54	
<i>For Class 55 Rating, Add</i>	446.92	
<i>For Class 56 Rating, Add</i>	593.35	
40 05 19 00-2655 EA 6" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,569.87	334.78
<i>For Class 52 Rating, Deduct</i>	-226.89	
<i>For Class 54 Rating, Add</i>	315.48	
<i>For Class 55 Rating, Add</i>	472.14	
<i>For Class 56 Rating, Add</i>	626.74	
40 05 19 00-2656 EA 6" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,688.30	338.72
<i>For Class 52 Rating, Deduct</i>	-239.26	
<i>For Class 54 Rating, Add</i>	332.42	
<i>For Class 55 Rating, Add</i>	497.36	
<i>For Class 56 Rating, Add</i>	660.13	
40 05 19 00-2657 EA 6" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,806.73	342.66
<i>For Class 52 Rating, Deduct</i>	-251.63	
<i>For Class 54 Rating, Add</i>	349.36	
<i>For Class 55 Rating, Add</i>	522.58	
<i>For Class 56 Rating, Add</i>	693.52	
40 05 19 00-2658 EA 6" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,925.16	346.59
<i>For Class 52 Rating, Deduct</i>	-264.00	
<i>For Class 54 Rating, Add</i>	366.30	
<i>For Class 55 Rating, Add</i>	547.81	
<i>For Class 56 Rating, Add</i>	726.91	
40 05 19 00-2659 EA 6" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,043.58	350.53
<i>For Class 52 Rating, Deduct</i>	-276.37	
<i>For Class 54 Rating, Add</i>	383.24	
<i>For Class 55 Rating, Add</i>	573.03	
<i>For Class 56 Rating, Add</i>	760.30	
40 05 19 00-2660 EA 6" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,162.01	354.47
<i>For Class 52 Rating, Deduct</i>	-288.74	
<i>For Class 54 Rating, Add</i>	400.18	
<i>For Class 55 Rating, Add</i>	598.25	
<i>For Class 56 Rating, Add</i>	793.69	
40 05 19 00-2661 EA 6" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,280.44	358.41
<i>For Class 52 Rating, Deduct</i>	-301.11	
<i>For Class 54 Rating, Add</i>	417.13	
<i>For Class 55 Rating, Add</i>	623.47	
<i>For Class 56 Rating, Add</i>	827.08	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2662	EA		6" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,398.87	362.35
			<i>For Class 52 Rating, Deduct</i> .....	-313.48	
			<i>For Class 54 Rating, Add</i> .....	434.07	
			<i>For Class 55 Rating, Add</i> .....	648.69	
			<i>For Class 56 Rating, Add</i> .....	860.47	
40 05 19 00-2663	EA		6" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,517.29	366.29
			<i>For Class 52 Rating, Deduct</i> .....	-325.85	
			<i>For Class 54 Rating, Add</i> .....	451.01	
			<i>For Class 55 Rating, Add</i> .....	673.91	
			<i>For Class 56 Rating, Add</i> .....	893.86	
40 05 19 00-2664	EA		6" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,635.72	370.22
			<i>For Class 52 Rating, Deduct</i> .....	-338.22	
			<i>For Class 54 Rating, Add</i> .....	467.95	
			<i>For Class 55 Rating, Add</i> .....	699.14	
			<i>For Class 56 Rating, Add</i> .....	927.25	
40 05 19 00-2665	EA		6" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,754.15	374.16
			<i>For Class 52 Rating, Deduct</i> .....	-350.60	
			<i>For Class 54 Rating, Add</i> .....	484.89	
			<i>For Class 55 Rating, Add</i> .....	724.36	
			<i>For Class 56 Rating, Add</i> .....	960.64	
40 05 19 00-2666	EA		6" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,872.57	378.11
			<i>For Class 52 Rating, Deduct</i> .....	-362.97	
			<i>For Class 54 Rating, Add</i> .....	501.83	
			<i>For Class 55 Rating, Add</i> .....	749.58	
			<i>For Class 56 Rating, Add</i> .....	994.03	
40 05 19 00-2667	EA		6" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,991.00	382.04
			<i>For Class 52 Rating, Deduct</i> .....	-375.34	
			<i>For Class 54 Rating, Add</i> .....	518.77	
			<i>For Class 55 Rating, Add</i> .....	774.80	
			<i>For Class 56 Rating, Add</i> .....	1,027.42	
40 05 19 00-2668	EA		6" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,109.43	385.98
			<i>For Class 52 Rating, Deduct</i> .....	-387.71	
			<i>For Class 54 Rating, Add</i> .....	535.71	
			<i>For Class 55 Rating, Add</i> .....	800.02	
			<i>For Class 56 Rating, Add</i> .....	1,060.81	
40 05 19 00-2669	EA		6" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,227.85	389.92
			<i>For Class 52 Rating, Deduct</i> .....	-400.08	
			<i>For Class 54 Rating, Add</i> .....	552.65	
			<i>For Class 55 Rating, Add</i> .....	825.25	
			<i>For Class 56 Rating, Add</i> .....	1,094.20	
40 05 19 00-2670	EA		6" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,346.28	393.85
			<i>For Class 52 Rating, Deduct</i> .....	-412.45	
			<i>For Class 54 Rating, Add</i> .....	569.59	
			<i>For Class 55 Rating, Add</i> .....	850.47	
			<i>For Class 56 Rating, Add</i> .....	1,127.59	
40 05 19 00-2671	EA		6" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,464.72	397.79
			<i>For Class 52 Rating, Deduct</i> .....	-424.82	
			<i>For Class 54 Rating, Add</i> .....	586.53	
			<i>For Class 55 Rating, Add</i> .....	875.69	
			<i>For Class 56 Rating, Add</i> .....	1,160.99	
40 05 19 00-2672	EA		6" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,583.15	401.74
			<i>For Class 52 Rating, Deduct</i> .....	-437.19	
			<i>For Class 54 Rating, Add</i> .....	603.47	
			<i>For Class 55 Rating, Add</i> .....	900.91	
			<i>For Class 56 Rating, Add</i> .....	1,194.38	
40 05 19 00-2673	EA		6" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,701.57	405.67
			<i>For Class 52 Rating, Deduct</i> .....	-449.56	
			<i>For Class 54 Rating, Add</i> .....	620.41	
			<i>For Class 55 Rating, Add</i> .....	926.13	
			<i>For Class 56 Rating, Add</i> .....	1,227.77	
40 05 19 00-2674	EA		6" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,820.00	409.61
			<i>For Class 52 Rating, Deduct</i> .....	-461.93	
			<i>For Class 54 Rating, Add</i> .....	637.35	
			<i>For Class 55 Rating, Add</i> .....	951.36	
			<i>For Class 56 Rating, Add</i> .....	1,261.16	
40 05 19 00-2675	EA		6" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,938.44	413.55
			<i>For Class 52 Rating, Deduct</i> .....	-474.30	
			<i>For Class 54 Rating, Add</i> .....	654.30	
			<i>For Class 55 Rating, Add</i> .....	976.58	
			<i>For Class 56 Rating, Add</i> .....	1,294.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2676 EA 6" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,056.86	417.49
<i>For Class 52 Rating, Deduct</i>	-486.67	
<i>For Class 54 Rating, Add</i>	671.24	
<i>For Class 55 Rating, Add</i>	1,001.80	
<i>For Class 56 Rating, Add</i>	1,327.94	
40 05 19 00-2677 EA 6" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,175.29	421.43
<i>For Class 52 Rating, Deduct</i>	-499.04	
<i>For Class 54 Rating, Add</i>	688.18	
<i>For Class 55 Rating, Add</i>	1,027.02	
<i>For Class 56 Rating, Add</i>	1,361.33	
40 05 19 00-2678 EA 6" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,293.72	425.37
<i>For Class 52 Rating, Deduct</i>	-511.41	
<i>For Class 54 Rating, Add</i>	705.12	
<i>For Class 55 Rating, Add</i>	1,052.24	
<i>For Class 56 Rating, Add</i>	1,394.72	
40 05 19 00-2679 EA 6" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,412.14	429.31
<i>For Class 52 Rating, Deduct</i>	-523.78	
<i>For Class 54 Rating, Add</i>	722.06	
<i>For Class 55 Rating, Add</i>	1,077.47	
<i>For Class 56 Rating, Add</i>	1,428.11	
40 05 19 00-2680 EA 6" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,530.57	433.24
<i>For Class 52 Rating, Deduct</i>	-536.16	
<i>For Class 54 Rating, Add</i>	739.00	
<i>For Class 55 Rating, Add</i>	1,102.69	
<i>For Class 56 Rating, Add</i>	1,461.50	
 <b>40 05 19 00-2681 8" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2600)</small></b>		
40 05 19 00-2682 EA 8" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,402.70	362.35
<i>For Class 52 Rating, Deduct</i>	-93.90	
<i>For Class 54 Rating, Add</i>	134.64	
<i>For Class 55 Rating, Add</i>	203.55	
<i>For Class 56 Rating, Add</i>	271.60	
40 05 19 00-2683 EA 8" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,554.34	366.29
<i>For Class 52 Rating, Deduct</i>	-109.93	
<i>For Class 54 Rating, Add</i>	156.56	
<i>For Class 55 Rating, Add</i>	236.18	
<i>For Class 56 Rating, Add</i>	314.79	
40 05 19 00-2684 EA 8" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,706.00	370.22
<i>For Class 52 Rating, Deduct</i>	-125.96	
<i>For Class 54 Rating, Add</i>	178.49	
<i>For Class 55 Rating, Add</i>	268.81	
<i>For Class 56 Rating, Add</i>	357.98	
40 05 19 00-2685 EA 8" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,857.66	374.16
<i>For Class 52 Rating, Deduct</i>	-141.98	
<i>For Class 54 Rating, Add</i>	200.41	
<i>For Class 55 Rating, Add</i>	301.44	
<i>For Class 56 Rating, Add</i>	401.18	
40 05 19 00-2686 EA 8" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,009.31	378.11
<i>For Class 52 Rating, Deduct</i>	-158.01	
<i>For Class 54 Rating, Add</i>	222.34	
<i>For Class 55 Rating, Add</i>	334.07	
<i>For Class 56 Rating, Add</i>	444.37	
40 05 19 00-2687 EA 8" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,160.96	382.04
<i>For Class 52 Rating, Deduct</i>	-174.03	
<i>For Class 54 Rating, Add</i>	244.26	
<i>For Class 55 Rating, Add</i>	366.70	
<i>For Class 56 Rating, Add</i>	487.56	
40 05 19 00-2688 EA 8" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,312.62	385.98
<i>For Class 52 Rating, Deduct</i>	-190.06	
<i>For Class 54 Rating, Add</i>	266.19	
<i>For Class 55 Rating, Add</i>	399.34	
<i>For Class 56 Rating, Add</i>	530.75	
40 05 19 00-2689 EA 8" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,464.27	389.92
<i>For Class 52 Rating, Deduct</i>	-206.08	
<i>For Class 54 Rating, Add</i>	288.11	
<i>For Class 55 Rating, Add</i>	431.97	
<i>For Class 56 Rating, Add</i>	573.95	

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2690	EA		8" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,615.93	393.85
			<i>For Class 52 Rating, Deduct</i>	-222.11	
			<i>For Class 54 Rating, Add</i>	310.04	
			<i>For Class 55 Rating, Add</i>	464.60	
			<i>For Class 56 Rating, Add</i>	617.14	
40 05 19 00-2691	EA		8" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,767.58	397.79
			<i>For Class 52 Rating, Deduct</i>	-238.13	
			<i>For Class 54 Rating, Add</i>	331.96	
			<i>For Class 55 Rating, Add</i>	497.23	
			<i>For Class 56 Rating, Add</i>	660.33	
40 05 19 00-2692	EA		8" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,919.24	401.74
			<i>For Class 52 Rating, Deduct</i>	-254.16	
			<i>For Class 54 Rating, Add</i>	353.89	
			<i>For Class 55 Rating, Add</i>	529.86	
			<i>For Class 56 Rating, Add</i>	703.53	
40 05 19 00-2693	EA		8" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,070.89	405.67
			<i>For Class 52 Rating, Deduct</i>	-270.19	
			<i>For Class 54 Rating, Add</i>	375.81	
			<i>For Class 55 Rating, Add</i>	562.49	
			<i>For Class 56 Rating, Add</i>	746.72	
40 05 19 00-2694	EA		8" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,222.55	409.61
			<i>For Class 52 Rating, Deduct</i>	-286.21	
			<i>For Class 54 Rating, Add</i>	397.74	
			<i>For Class 55 Rating, Add</i>	595.13	
			<i>For Class 56 Rating, Add</i>	789.91	
40 05 19 00-2695	EA		8" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,374.21	413.55
			<i>For Class 52 Rating, Deduct</i>	-302.24	
			<i>For Class 54 Rating, Add</i>	419.66	
			<i>For Class 55 Rating, Add</i>	627.76	
			<i>For Class 56 Rating, Add</i>	833.10	
40 05 19 00-2696	EA		8" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,525.86	417.49
			<i>For Class 52 Rating, Deduct</i>	-318.26	
			<i>For Class 54 Rating, Add</i>	441.59	
			<i>For Class 55 Rating, Add</i>	660.39	
			<i>For Class 56 Rating, Add</i>	876.30	
40 05 19 00-2697	EA		8" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,677.52	421.43
			<i>For Class 52 Rating, Deduct</i>	-334.29	
			<i>For Class 54 Rating, Add</i>	463.51	
			<i>For Class 55 Rating, Add</i>	693.02	
			<i>For Class 56 Rating, Add</i>	919.49	
40 05 19 00-2698	EA		8" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,829.18	425.37
			<i>For Class 52 Rating, Deduct</i>	-350.31	
			<i>For Class 54 Rating, Add</i>	485.44	
			<i>For Class 55 Rating, Add</i>	725.65	
			<i>For Class 56 Rating, Add</i>	962.68	
40 05 19 00-2699	EA		8" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,980.82	429.31
			<i>For Class 52 Rating, Deduct</i>	-366.34	
			<i>For Class 54 Rating, Add</i>	507.36	
			<i>For Class 55 Rating, Add</i>	758.28	
			<i>For Class 56 Rating, Add</i>	1,005.87	
40 05 19 00-2700	EA		8" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,132.48	433.24
			<i>For Class 52 Rating, Deduct</i>	-382.37	
			<i>For Class 54 Rating, Add</i>	529.28	
			<i>For Class 55 Rating, Add</i>	790.91	
			<i>For Class 56 Rating, Add</i>	1,049.07	
40 05 19 00-2701	EA		8" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,284.14	437.18
			<i>For Class 52 Rating, Deduct</i>	-398.39	
			<i>For Class 54 Rating, Add</i>	551.21	
			<i>For Class 55 Rating, Add</i>	823.55	
			<i>For Class 56 Rating, Add</i>	1,092.26	
40 05 19 00-2702	EA		8" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,435.80	441.13
			<i>For Class 52 Rating, Deduct</i>	-414.42	
			<i>For Class 54 Rating, Add</i>	573.13	
			<i>For Class 55 Rating, Add</i>	856.18	
			<i>For Class 56 Rating, Add</i>	1,135.45	
40 05 19 00-2703	EA		8" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,587.44	445.06
			<i>For Class 52 Rating, Deduct</i>	-430.44	
			<i>For Class 54 Rating, Add</i>	595.06	
			<i>For Class 55 Rating, Add</i>	888.81	
			<i>For Class 56 Rating, Add</i>	1,178.64	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

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	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2704	EA			8" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,739.10	449.00
				<i>For Class 52 Rating, Deduct</i>	-446.47	
				<i>For Class 54 Rating, Add</i>	616.98	
				<i>For Class 55 Rating, Add</i>	921.44	
				<i>For Class 56 Rating, Add</i>	1,221.84	
40 05 19 00-2705	EA			8" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,890.76	452.94
				<i>For Class 52 Rating, Deduct</i>	-462.49	
				<i>For Class 54 Rating, Add</i>	638.91	
				<i>For Class 55 Rating, Add</i>	954.07	
				<i>For Class 56 Rating, Add</i>	1,265.03	
40 05 19 00-2706	EA			8" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,042.41	456.87
				<i>For Class 52 Rating, Deduct</i>	-478.52	
				<i>For Class 54 Rating, Add</i>	660.83	
				<i>For Class 55 Rating, Add</i>	986.70	
				<i>For Class 56 Rating, Add</i>	1,308.22	
40 05 19 00-2707	EA			8" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,194.06	460.81
				<i>For Class 52 Rating, Deduct</i>	-494.54	
				<i>For Class 54 Rating, Add</i>	682.76	
				<i>For Class 55 Rating, Add</i>	1,019.33	
				<i>For Class 56 Rating, Add</i>	1,351.41	
40 05 19 00-2708	EA			8" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,345.72	464.76
				<i>For Class 52 Rating, Deduct</i>	-510.57	
				<i>For Class 54 Rating, Add</i>	704.68	
				<i>For Class 55 Rating, Add</i>	1,051.97	
				<i>For Class 56 Rating, Add</i>	1,394.61	
40 05 19 00-2709	EA			8" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,497.38	468.69
				<i>For Class 52 Rating, Deduct</i>	-526.60	
				<i>For Class 54 Rating, Add</i>	726.61	
				<i>For Class 55 Rating, Add</i>	1,084.60	
				<i>For Class 56 Rating, Add</i>	1,437.80	
40 05 19 00-2710	EA			8" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,649.03	472.63
				<i>For Class 52 Rating, Deduct</i>	-542.62	
				<i>For Class 54 Rating, Add</i>	748.53	
				<i>For Class 55 Rating, Add</i>	1,117.23	
				<i>For Class 56 Rating, Add</i>	1,480.99	
40 05 19 00-2711	EA			8" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,800.68	476.57
				<i>For Class 52 Rating, Deduct</i>	-558.65	
				<i>For Class 54 Rating, Add</i>	770.46	
				<i>For Class 55 Rating, Add</i>	1,149.86	
				<i>For Class 56 Rating, Add</i>	1,524.18	
40 05 19 00-2712	EA			8" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,952.34	480.50
				<i>For Class 52 Rating, Deduct</i>	-574.67	
				<i>For Class 54 Rating, Add</i>	792.38	
				<i>For Class 55 Rating, Add</i>	1,182.49	
				<i>For Class 56 Rating, Add</i>	1,567.38	
40 05 19 00-2713	EA			8" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,103.99	484.45
				<i>For Class 52 Rating, Deduct</i>	-590.70	
				<i>For Class 54 Rating, Add</i>	814.31	
				<i>For Class 55 Rating, Add</i>	1,215.12	
				<i>For Class 56 Rating, Add</i>	1,610.57	
40 05 19 00-2714	EA			8" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,255.66	488.39
				<i>For Class 52 Rating, Deduct</i>	-606.72	
				<i>For Class 54 Rating, Add</i>	836.23	
				<i>For Class 55 Rating, Add</i>	1,247.76	
				<i>For Class 56 Rating, Add</i>	1,653.76	
40 05 19 00-2715	EA			8" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,407.31	492.32
				<i>For Class 52 Rating, Deduct</i>	-622.75	
				<i>For Class 54 Rating, Add</i>	858.16	
				<i>For Class 55 Rating, Add</i>	1,280.39	
				<i>For Class 56 Rating, Add</i>	1,696.96	
40 05 19 00-2716	EA			8" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,558.96	496.26
				<i>For Class 52 Rating, Deduct</i>	-638.78	
				<i>For Class 54 Rating, Add</i>	880.08	
				<i>For Class 55 Rating, Add</i>	1,313.02	
				<i>For Class 56 Rating, Add</i>	1,740.15	
40 05 19 00-2717	EA			8" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,710.62	500.20
				<i>For Class 52 Rating, Deduct</i>	-654.80	
				<i>For Class 54 Rating, Add</i>	902.01	
				<i>For Class 55 Rating, Add</i>	1,345.65	
				<i>For Class 56 Rating, Add</i>	1,783.34	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2718	EA		8" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,862.28	504.13
			<i>For Class 52 Rating, Deduct</i> .....	-670.83	
			<i>For Class 54 Rating, Add</i> .....	923.93	
			<i>For Class 55 Rating, Add</i> .....	1,378.28	
			<i>For Class 56 Rating, Add</i> .....	1,826.54	
40 05 19 00-2719	EA		8" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,013.93	508.08
			<i>For Class 52 Rating, Deduct</i> .....	-686.85	
			<i>For Class 54 Rating, Add</i> .....	945.85	
			<i>For Class 55 Rating, Add</i> .....	1,410.91	
			<i>For Class 56 Rating, Add</i> .....	1,869.73	
40 05 19 00-2720	EA		8" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,165.58	512.02
			<i>For Class 52 Rating, Deduct</i> .....	-702.88	
			<i>For Class 54 Rating, Add</i> .....	967.78	
			<i>For Class 55 Rating, Add</i> .....	1,443.54	
			<i>For Class 56 Rating, Add</i> .....	1,912.92	
40 05 19 00-2721			<b>10" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2600)</small>		
40 05 19 00-2722	EA		10" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,757.19	441.13
			<i>For Class 52 Rating, Deduct</i> .....	-119.77	
			<i>For Class 54 Rating, Add</i> .....	171.34	
			<i>For Class 55 Rating, Add</i> .....	258.85	
			<i>For Class 56 Rating, Add</i> .....	345.26	
40 05 19 00-2723	EA		10" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	1,952.29	445.06
			<i>For Class 52 Rating, Deduct</i> .....	-140.58	
			<i>For Class 54 Rating, Add</i> .....	199.79	
			<i>For Class 55 Rating, Add</i> .....	301.17	
			<i>For Class 56 Rating, Add</i> .....	401.27	
40 05 19 00-2724	EA		10" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,147.40	449.00
			<i>For Class 52 Rating, Deduct</i> .....	-161.38	
			<i>For Class 54 Rating, Add</i> .....	228.23	
			<i>For Class 55 Rating, Add</i> .....	343.49	
			<i>For Class 56 Rating, Add</i> .....	457.29	
40 05 19 00-2725	EA		10" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,342.51	452.94
			<i>For Class 52 Rating, Deduct</i> .....	-182.19	
			<i>For Class 54 Rating, Add</i> .....	256.67	
			<i>For Class 55 Rating, Add</i> .....	385.81	
			<i>For Class 56 Rating, Add</i> .....	513.30	
40 05 19 00-2726	EA		10" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,537.60	456.87
			<i>For Class 52 Rating, Deduct</i> .....	-202.99	
			<i>For Class 54 Rating, Add</i> .....	285.11	
			<i>For Class 55 Rating, Add</i> .....	428.13	
			<i>For Class 56 Rating, Add</i> .....	569.30	
40 05 19 00-2727	EA		10" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,732.71	460.81
			<i>For Class 52 Rating, Deduct</i> .....	-223.80	
			<i>For Class 54 Rating, Add</i> .....	313.55	
			<i>For Class 55 Rating, Add</i> .....	470.45	
			<i>For Class 56 Rating, Add</i> .....	625.32	
40 05 19 00-2728	EA		10" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	2,927.82	464.76
			<i>For Class 52 Rating, Deduct</i> .....	-244.60	
			<i>For Class 54 Rating, Add</i> .....	342.00	
			<i>For Class 55 Rating, Add</i> .....	512.77	
			<i>For Class 56 Rating, Add</i> .....	681.33	
40 05 19 00-2729	EA		10" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,122.93	468.69
			<i>For Class 52 Rating, Deduct</i> .....	-265.41	
			<i>For Class 54 Rating, Add</i> .....	370.44	
			<i>For Class 55 Rating, Add</i> .....	555.10	
			<i>For Class 56 Rating, Add</i> .....	737.34	
40 05 19 00-2730	EA		10" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,318.03	472.63
			<i>For Class 52 Rating, Deduct</i> .....	-286.21	
			<i>For Class 54 Rating, Add</i> .....	398.88	
			<i>For Class 55 Rating, Add</i> .....	597.42	
			<i>For Class 56 Rating, Add</i> .....	793.35	
40 05 19 00-2731	EA		10" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,513.13	476.57
			<i>For Class 52 Rating, Deduct</i> .....	-307.02	
			<i>For Class 54 Rating, Add</i> .....	427.32	
			<i>For Class 55 Rating, Add</i> .....	639.74	
			<i>For Class 56 Rating, Add</i> .....	849.36	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	<b>40 05</b>
<b>Ductile Iron Process Pipe</b>	<b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2732 EA 10" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,708.24	480.50
<i>For Class 52 Rating, Deduct</i>	-327.82	
<i>For Class 54 Rating, Add</i>	455.77	
<i>For Class 55 Rating, Add</i>	682.06	
<i>For Class 56 Rating, Add</i>	905.37	
40 05 19 00-2733 EA 10" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,903.34	484.45
<i>For Class 52 Rating, Deduct</i>	-348.63	
<i>For Class 54 Rating, Add</i>	484.21	
<i>For Class 55 Rating, Add</i>	724.38	
<i>For Class 56 Rating, Add</i>	961.38	
40 05 19 00-2734 EA 10" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,098.46	488.39
<i>For Class 52 Rating, Deduct</i>	-369.43	
<i>For Class 54 Rating, Add</i>	512.65	
<i>For Class 55 Rating, Add</i>	766.70	
<i>For Class 56 Rating, Add</i>	1,017.39	
40 05 19 00-2735 EA 10" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,293.57	492.32
<i>For Class 52 Rating, Deduct</i>	-390.24	
<i>For Class 54 Rating, Add</i>	541.09	
<i>For Class 55 Rating, Add</i>	809.02	
<i>For Class 56 Rating, Add</i>	1,073.40	
40 05 19 00-2736 EA 10" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,488.67	496.26
<i>For Class 52 Rating, Deduct</i>	-411.04	
<i>For Class 54 Rating, Add</i>	569.54	
<i>For Class 55 Rating, Add</i>	851.34	
<i>For Class 56 Rating, Add</i>	1,129.41	
40 05 19 00-2737 EA 10" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,683.77	500.20
<i>For Class 52 Rating, Deduct</i>	-431.85	
<i>For Class 54 Rating, Add</i>	597.98	
<i>For Class 55 Rating, Add</i>	893.66	
<i>For Class 56 Rating, Add</i>	1,185.42	
40 05 19 00-2738 EA 10" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,878.88	504.13
<i>For Class 52 Rating, Deduct</i>	-452.65	
<i>For Class 54 Rating, Add</i>	626.42	
<i>For Class 55 Rating, Add</i>	935.98	
<i>For Class 56 Rating, Add</i>	1,241.43	
40 05 19 00-2739 EA 10" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,073.99	508.08
<i>For Class 52 Rating, Deduct</i>	-473.46	
<i>For Class 54 Rating, Add</i>	654.86	
<i>For Class 55 Rating, Add</i>	978.31	
<i>For Class 56 Rating, Add</i>	1,297.44	
40 05 19 00-2740 EA 10" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,269.09	512.02
<i>For Class 52 Rating, Deduct</i>	-494.26	
<i>For Class 54 Rating, Add</i>	683.31	
<i>For Class 55 Rating, Add</i>	1,020.63	
<i>For Class 56 Rating, Add</i>	1,353.45	
40 05 19 00-2741 EA 10" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,464.20	515.95
<i>For Class 52 Rating, Deduct</i>	-515.07	
<i>For Class 54 Rating, Add</i>	711.75	
<i>For Class 55 Rating, Add</i>	1,062.95	
<i>For Class 56 Rating, Add</i>	1,409.47	
40 05 19 00-2742 EA 10" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,659.30	519.89
<i>For Class 52 Rating, Deduct</i>	-535.87	
<i>For Class 54 Rating, Add</i>	740.19	
<i>For Class 55 Rating, Add</i>	1,105.27	
<i>For Class 56 Rating, Add</i>	1,465.47	
40 05 19 00-2743 EA 10" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,854.40	523.83
<i>For Class 52 Rating, Deduct</i>	-556.68	
<i>For Class 54 Rating, Add</i>	768.63	
<i>For Class 55 Rating, Add</i>	1,147.59	
<i>For Class 56 Rating, Add</i>	1,521.48	
40 05 19 00-2744 EA 10" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,049.51	527.77
<i>For Class 52 Rating, Deduct</i>	-577.48	
<i>For Class 54 Rating, Add</i>	797.07	
<i>For Class 55 Rating, Add</i>	1,189.91	
<i>For Class 56 Rating, Add</i>	1,577.50	
40 05 19 00-2745 EA 10" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,244.62	531.71
<i>For Class 52 Rating, Deduct</i>	-598.29	
<i>For Class 54 Rating, Add</i>	825.52	
<i>For Class 55 Rating, Add</i>	1,232.23	
<i>For Class 56 Rating, Add</i>	1,633.51	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2746	EA		10" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,439.72	535.65
			<i>For Class 52 Rating, Deduct</i>	-619.10	
			<i>For Class 54 Rating, Add</i>	853.96	
			<i>For Class 55 Rating, Add</i>	1,274.55	
			<i>For Class 56 Rating, Add</i>	1,689.52	
40 05 19 00-2747	EA		10" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,634.82	539.58
			<i>For Class 52 Rating, Deduct</i>	-639.90	
			<i>For Class 54 Rating, Add</i>	882.40	
			<i>For Class 55 Rating, Add</i>	1,316.87	
			<i>For Class 56 Rating, Add</i>	1,745.53	
40 05 19 00-2748	EA		10" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,829.93	543.52
			<i>For Class 52 Rating, Deduct</i>	-660.71	
			<i>For Class 54 Rating, Add</i>	910.84	
			<i>For Class 55 Rating, Add</i>	1,359.19	
			<i>For Class 56 Rating, Add</i>	1,801.54	
40 05 19 00-2749	EA		10" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,025.04	547.46
			<i>For Class 52 Rating, Deduct</i>	-681.51	
			<i>For Class 54 Rating, Add</i>	939.29	
			<i>For Class 55 Rating, Add</i>	1,401.52	
			<i>For Class 56 Rating, Add</i>	1,857.55	
40 05 19 00-2750	EA		10" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,220.14	551.40
			<i>For Class 52 Rating, Deduct</i>	-702.32	
			<i>For Class 54 Rating, Add</i>	967.73	
			<i>For Class 55 Rating, Add</i>	1,443.84	
			<i>For Class 56 Rating, Add</i>	1,913.56	
40 05 19 00-2751	EA		10" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,415.25	555.34
			<i>For Class 52 Rating, Deduct</i>	-723.12	
			<i>For Class 54 Rating, Add</i>	996.17	
			<i>For Class 55 Rating, Add</i>	1,486.16	
			<i>For Class 56 Rating, Add</i>	1,969.57	
40 05 19 00-2752	EA		10" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,610.35	559.28
			<i>For Class 52 Rating, Deduct</i>	-743.93	
			<i>For Class 54 Rating, Add</i>	1,024.61	
			<i>For Class 55 Rating, Add</i>	1,528.48	
			<i>For Class 56 Rating, Add</i>	2,025.58	
40 05 19 00-2753	EA		10" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,805.46	563.22
			<i>For Class 52 Rating, Deduct</i>	-764.73	
			<i>For Class 54 Rating, Add</i>	1,053.06	
			<i>For Class 55 Rating, Add</i>	1,570.80	
			<i>For Class 56 Rating, Add</i>	2,081.59	
40 05 19 00-2754	EA		10" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,000.57	567.15
			<i>For Class 52 Rating, Deduct</i>	-785.54	
			<i>For Class 54 Rating, Add</i>	1,081.50	
			<i>For Class 55 Rating, Add</i>	1,613.12	
			<i>For Class 56 Rating, Add</i>	2,137.60	
40 05 19 00-2755	EA		10" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,195.68	571.10
			<i>For Class 52 Rating, Deduct</i>	-806.34	
			<i>For Class 54 Rating, Add</i>	1,109.94	
			<i>For Class 55 Rating, Add</i>	1,655.44	
			<i>For Class 56 Rating, Add</i>	2,193.61	
40 05 19 00-2756	EA		10" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,390.78	575.04
			<i>For Class 52 Rating, Deduct</i>	-827.15	
			<i>For Class 54 Rating, Add</i>	1,138.38	
			<i>For Class 55 Rating, Add</i>	1,697.76	
			<i>For Class 56 Rating, Add</i>	2,249.62	
40 05 19 00-2757	EA		10" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,585.88	578.97
			<i>For Class 52 Rating, Deduct</i>	-847.95	
			<i>For Class 54 Rating, Add</i>	1,166.82	
			<i>For Class 55 Rating, Add</i>	1,740.08	
			<i>For Class 56 Rating, Add</i>	2,305.63	
40 05 19 00-2758	EA		10" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,780.99	582.91
			<i>For Class 52 Rating, Deduct</i>	-868.76	
			<i>For Class 54 Rating, Add</i>	1,195.27	
			<i>For Class 55 Rating, Add</i>	1,782.40	
			<i>For Class 56 Rating, Add</i>	2,361.64	
40 05 19 00-2759	EA		10" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,976.10	586.85
			<i>For Class 52 Rating, Deduct</i>	-889.56	
			<i>For Class 54 Rating, Add</i>	1,223.71	
			<i>For Class 55 Rating, Add</i>	1,824.73	
			<i>For Class 56 Rating, Add</i>	2,417.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2760 EA 10" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,171.20	590.78
<i>For Class 52 Rating, Deduct</i>	-910.37	
<i>For Class 54 Rating, Add</i>	1,252.15	
<i>For Class 55 Rating, Add</i>	1,867.05	
<i>For Class 56 Rating, Add</i>	2,473.67	
<b>40 05 19 00-2761 12" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(#40 05 19 00-2600)</small></b>		
40 05 19 00-2762 EA 12" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,266.77	551.40
<i>For Class 52 Rating, Deduct</i>	-157.45	
<i>For Class 54 Rating, Add</i>	224.72	
<i>For Class 55 Rating, Add</i>	339.24	
<i>For Class 56 Rating, Add</i>	452.32	
40 05 19 00-2763 EA 12" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,507.88	555.34
<i>For Class 52 Rating, Deduct</i>	-183.31	
<i>For Class 54 Rating, Add</i>	260.07	
<i>For Class 55 Rating, Add</i>	391.81	
<i>For Class 56 Rating, Add</i>	521.90	
40 05 19 00-2764 EA 12" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,748.99	559.28
<i>For Class 52 Rating, Deduct</i>	-209.18	
<i>For Class 54 Rating, Add</i>	295.41	
<i>For Class 55 Rating, Add</i>	444.39	
<i>For Class 56 Rating, Add</i>	591.48	
40 05 19 00-2765 EA 12" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,990.11	563.22
<i>For Class 52 Rating, Deduct</i>	-235.04	
<i>For Class 54 Rating, Add</i>	330.75	
<i>For Class 55 Rating, Add</i>	496.98	
<i>For Class 56 Rating, Add</i>	661.06	
40 05 19 00-2766 EA 12" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,231.22	567.15
<i>For Class 52 Rating, Deduct</i>	-260.91	
<i>For Class 54 Rating, Add</i>	366.10	
<i>For Class 55 Rating, Add</i>	549.56	
<i>For Class 56 Rating, Add</i>	730.64	
40 05 19 00-2767 EA 12" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,472.34	571.10
<i>For Class 52 Rating, Deduct</i>	-286.77	
<i>For Class 54 Rating, Add</i>	401.44	
<i>For Class 55 Rating, Add</i>	602.14	
<i>For Class 56 Rating, Add</i>	800.23	
40 05 19 00-2768 EA 12" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,713.44	575.04
<i>For Class 52 Rating, Deduct</i>	-312.64	
<i>For Class 54 Rating, Add</i>	436.78	
<i>For Class 55 Rating, Add</i>	654.72	
<i>For Class 56 Rating, Add</i>	869.81	
40 05 19 00-2769 EA 12" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,954.56	578.97
<i>For Class 52 Rating, Deduct</i>	-338.51	
<i>For Class 54 Rating, Add</i>	472.13	
<i>For Class 55 Rating, Add</i>	707.30	
<i>For Class 56 Rating, Add</i>	939.39	
40 05 19 00-2770 EA 12" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,195.67	582.91
<i>For Class 52 Rating, Deduct</i>	-364.37	
<i>For Class 54 Rating, Add</i>	507.47	
<i>For Class 55 Rating, Add</i>	759.88	
<i>For Class 56 Rating, Add</i>	1,008.97	
40 05 19 00-2771 EA 12" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,436.79	586.85
<i>For Class 52 Rating, Deduct</i>	-390.24	
<i>For Class 54 Rating, Add</i>	542.81	
<i>For Class 55 Rating, Add</i>	812.46	
<i>For Class 56 Rating, Add</i>	1,078.56	
40 05 19 00-2772 EA 12" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,677.89	590.78
<i>For Class 52 Rating, Deduct</i>	-416.10	
<i>For Class 54 Rating, Add</i>	578.16	
<i>For Class 55 Rating, Add</i>	865.04	
<i>For Class 56 Rating, Add</i>	1,148.14	
40 05 19 00-2773 EA 12" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,919.01	594.73
<i>For Class 52 Rating, Deduct</i>	-441.97	
<i>For Class 54 Rating, Add</i>	613.50	
<i>For Class 55 Rating, Add</i>	917.62	
<i>For Class 56 Rating, Add</i>	1,217.72	

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2774	EA		12" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,160.12	598.67
			<i>For Class 52 Rating, Deduct</i>	-467.84	
			<i>For Class 54 Rating, Add</i>	648.84	
			<i>For Class 55 Rating, Add</i>	970.20	
			<i>For Class 56 Rating, Add</i>	1,287.30	
40 05 19 00-2775	EA		12" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,401.23	602.60
			<i>For Class 52 Rating, Deduct</i>	-493.70	
			<i>For Class 54 Rating, Add</i>	684.19	
			<i>For Class 55 Rating, Add</i>	1,022.78	
			<i>For Class 56 Rating, Add</i>	1,356.89	
40 05 19 00-2776	EA		12" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,642.34	606.54
			<i>For Class 52 Rating, Deduct</i>	-519.57	
			<i>For Class 54 Rating, Add</i>	719.53	
			<i>For Class 55 Rating, Add</i>	1,075.36	
			<i>For Class 56 Rating, Add</i>	1,426.47	
40 05 19 00-2777	EA		12" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,883.45	610.48
			<i>For Class 52 Rating, Deduct</i>	-545.43	
			<i>For Class 54 Rating, Add</i>	754.87	
			<i>For Class 55 Rating, Add</i>	1,127.94	
			<i>For Class 56 Rating, Add</i>	1,496.05	
40 05 19 00-2778	EA		12" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,124.56	614.42
			<i>For Class 52 Rating, Deduct</i>	-571.30	
			<i>For Class 54 Rating, Add</i>	790.22	
			<i>For Class 55 Rating, Add</i>	1,180.52	
			<i>For Class 56 Rating, Add</i>	1,565.63	
40 05 19 00-2779	EA		12" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,365.67	618.36
			<i>For Class 52 Rating, Deduct</i>	-597.16	
			<i>For Class 54 Rating, Add</i>	825.56	
			<i>For Class 55 Rating, Add</i>	1,233.10	
			<i>For Class 56 Rating, Add</i>	1,635.22	
40 05 19 00-2780	EA		12" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,606.79	622.30
			<i>For Class 52 Rating, Deduct</i>	-623.03	
			<i>For Class 54 Rating, Add</i>	860.90	
			<i>For Class 55 Rating, Add</i>	1,285.68	
			<i>For Class 56 Rating, Add</i>	1,704.80	
40 05 19 00-2781	EA		12" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,847.90	626.23
			<i>For Class 52 Rating, Deduct</i>	-648.90	
			<i>For Class 54 Rating, Add</i>	896.25	
			<i>For Class 55 Rating, Add</i>	1,338.26	
			<i>For Class 56 Rating, Add</i>	1,774.38	
40 05 19 00-2782	EA		12" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,089.01	630.17
			<i>For Class 52 Rating, Deduct</i>	-674.76	
			<i>For Class 54 Rating, Add</i>	931.59	
			<i>For Class 55 Rating, Add</i>	1,390.84	
			<i>For Class 56 Rating, Add</i>	1,843.96	
40 05 19 00-2783	EA		12" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,330.12	634.11
			<i>For Class 52 Rating, Deduct</i>	-700.63	
			<i>For Class 54 Rating, Add</i>	966.93	
			<i>For Class 55 Rating, Add</i>	1,443.42	
			<i>For Class 56 Rating, Add</i>	1,913.55	
40 05 19 00-2784	EA		12" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,571.25	638.05
			<i>For Class 52 Rating, Deduct</i>	-726.50	
			<i>For Class 54 Rating, Add</i>	1,002.28	
			<i>For Class 55 Rating, Add</i>	1,496.01	
			<i>For Class 56 Rating, Add</i>	1,983.13	
40 05 19 00-2785	EA		12" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,812.35	641.99
			<i>For Class 52 Rating, Deduct</i>	-752.36	
			<i>For Class 54 Rating, Add</i>	1,037.62	
			<i>For Class 55 Rating, Add</i>	1,548.58	
			<i>For Class 56 Rating, Add</i>	2,052.71	
40 05 19 00-2786	EA		12" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,053.47	645.93
			<i>For Class 52 Rating, Deduct</i>	-778.23	
			<i>For Class 54 Rating, Add</i>	1,072.96	
			<i>For Class 55 Rating, Add</i>	1,601.17	
			<i>For Class 56 Rating, Add</i>	2,122.30	
40 05 19 00-2787	EA		12" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,294.58	649.86
			<i>For Class 52 Rating, Deduct</i>	-804.09	
			<i>For Class 54 Rating, Add</i>	1,108.31	
			<i>For Class 55 Rating, Add</i>	1,653.75	
			<i>For Class 56 Rating, Add</i>	2,191.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2788 EA 12" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,535.69	653.80
<i>For Class 52 Rating, Deduct</i>	-829.96	
<i>For Class 54 Rating, Add</i>	1,143.65	
<i>For Class 55 Rating, Add</i>	1,706.33	
<i>For Class 56 Rating, Add</i>	2,261.46	
40 05 19 00-2789 EA 12" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,776.80	657.75
<i>For Class 52 Rating, Deduct</i>	-855.82	
<i>For Class 54 Rating, Add</i>	1,178.99	
<i>For Class 55 Rating, Add</i>	1,758.91	
<i>For Class 56 Rating, Add</i>	2,331.04	
40 05 19 00-2790 EA 12" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,017.92	661.68
<i>For Class 52 Rating, Deduct</i>	-881.69	
<i>For Class 54 Rating, Add</i>	1,214.34	
<i>For Class 55 Rating, Add</i>	1,811.49	
<i>For Class 56 Rating, Add</i>	2,400.63	
40 05 19 00-2791 EA 12" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,259.03	665.62
<i>For Class 52 Rating, Deduct</i>	-907.56	
<i>For Class 54 Rating, Add</i>	1,249.68	
<i>For Class 55 Rating, Add</i>	1,864.07	
<i>For Class 56 Rating, Add</i>	2,470.21	
40 05 19 00-2792 EA 12" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,500.13	669.56
<i>For Class 52 Rating, Deduct</i>	-933.42	
<i>For Class 54 Rating, Add</i>	1,285.02	
<i>For Class 55 Rating, Add</i>	1,916.65	
<i>For Class 56 Rating, Add</i>	2,539.79	
40 05 19 00-2793 EA 12" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,741.25	673.49
<i>For Class 52 Rating, Deduct</i>	-959.29	
<i>For Class 54 Rating, Add</i>	1,320.37	
<i>For Class 55 Rating, Add</i>	1,969.23	
<i>For Class 56 Rating, Add</i>	2,609.37	
40 05 19 00-2794 EA 12" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,982.36	677.44
<i>For Class 52 Rating, Deduct</i>	-985.15	
<i>For Class 54 Rating, Add</i>	1,355.71	
<i>For Class 55 Rating, Add</i>	2,021.81	
<i>For Class 56 Rating, Add</i>	2,678.95	
40 05 19 00-2795 EA 12" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,223.47	681.38
<i>For Class 52 Rating, Deduct</i>	-1,011.02	
<i>For Class 54 Rating, Add</i>	1,391.05	
<i>For Class 55 Rating, Add</i>	2,074.39	
<i>For Class 56 Rating, Add</i>	2,748.54	
40 05 19 00-2796 EA 12" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,464.58	685.31
<i>For Class 52 Rating, Deduct</i>	-1,036.89	
<i>For Class 54 Rating, Add</i>	1,426.39	
<i>For Class 55 Rating, Add</i>	2,126.97	
<i>For Class 56 Rating, Add</i>	2,818.12	
40 05 19 00-2797 EA 12" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,705.70	689.25
<i>For Class 52 Rating, Deduct</i>	-1,062.75	
<i>For Class 54 Rating, Add</i>	1,461.74	
<i>For Class 55 Rating, Add</i>	2,179.55	
<i>For Class 56 Rating, Add</i>	2,887.70	
40 05 19 00-2798 EA 12" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,946.81	693.19
<i>For Class 52 Rating, Deduct</i>	-1,088.62	
<i>For Class 54 Rating, Add</i>	1,497.08	
<i>For Class 55 Rating, Add</i>	2,232.13	
<i>For Class 56 Rating, Add</i>	2,957.28	
40 05 19 00-2799 EA 12" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,187.92	697.12
<i>For Class 52 Rating, Deduct</i>	-1,114.48	
<i>For Class 54 Rating, Add</i>	1,532.43	
<i>For Class 55 Rating, Add</i>	2,284.71	
<i>For Class 56 Rating, Add</i>	3,026.87	
40 05 19 00-2800 EA 12" Flanged x Grooved (FxG), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,429.03	701.07
<i>For Class 52 Rating, Deduct</i>	-1,140.35	
<i>For Class 54 Rating, Add</i>	1,567.77	
<i>For Class 55 Rating, Add</i>	2,337.29	
<i>For Class 56 Rating, Add</i>	3,096.45	

40 05 19 00-2801 14" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-2800)

## 40 Process Interconnections

## 40 05 Common Work Results For Process Interconnections

## 40 05 19 Ductile Iron Process Pipe



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2802	EA		14" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,113.74	661.68
			<i>For Class 52 Rating, Deduct</i>	-232.23	
			<i>For Class 54 Rating, Add</i>	328.71	
			<i>For Class 55 Rating, Add</i>	494.86	
			<i>For Class 56 Rating, Add</i>	658.89	
40 05 19 00-2803	EA		14" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,405.97	665.62
			<i>For Class 52 Rating, Deduct</i>	-263.72	
			<i>For Class 54 Rating, Add</i>	371.72	
			<i>For Class 55 Rating, Add</i>	558.84	
			<i>For Class 56 Rating, Add</i>	743.55	
40 05 19 00-2804	EA		14" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,698.20	669.56
			<i>For Class 52 Rating, Deduct</i>	-295.21	
			<i>For Class 54 Rating, Add</i>	414.73	
			<i>For Class 55 Rating, Add</i>	622.82	
			<i>For Class 56 Rating, Add</i>	828.22	
40 05 19 00-2805	EA		14" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	3,990.43	673.49
			<i>For Class 52 Rating, Deduct</i>	-326.70	
			<i>For Class 54 Rating, Add</i>	457.74	
			<i>For Class 55 Rating, Add</i>	686.80	
			<i>For Class 56 Rating, Add</i>	912.88	
40 05 19 00-2806	EA		14" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,282.66	677.44
			<i>For Class 52 Rating, Deduct</i>	-358.19	
			<i>For Class 54 Rating, Add</i>	500.75	
			<i>For Class 55 Rating, Add</i>	750.78	
			<i>For Class 56 Rating, Add</i>	997.54	
40 05 19 00-2807	EA		14" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,574.89	681.38
			<i>For Class 52 Rating, Deduct</i>	-389.68	
			<i>For Class 54 Rating, Add</i>	543.77	
			<i>For Class 55 Rating, Add</i>	814.76	
			<i>For Class 56 Rating, Add</i>	1,082.21	
40 05 19 00-2808	EA		14" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,867.12	685.31
			<i>For Class 52 Rating, Deduct</i>	-421.16	
			<i>For Class 54 Rating, Add</i>	586.78	
			<i>For Class 55 Rating, Add</i>	878.74	
			<i>For Class 56 Rating, Add</i>	1,166.87	
40 05 19 00-2809	EA		14" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,159.35	689.25
			<i>For Class 52 Rating, Deduct</i>	-452.65	
			<i>For Class 54 Rating, Add</i>	629.79	
			<i>For Class 55 Rating, Add</i>	942.72	
			<i>For Class 56 Rating, Add</i>	1,251.53	
40 05 19 00-2810	EA		14" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,451.58	693.19
			<i>For Class 52 Rating, Deduct</i>	-484.14	
			<i>For Class 54 Rating, Add</i>	672.80	
			<i>For Class 55 Rating, Add</i>	1,006.69	
			<i>For Class 56 Rating, Add</i>	1,336.19	
40 05 19 00-2811	EA		14" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,743.81	697.12
			<i>For Class 52 Rating, Deduct</i>	-515.63	
			<i>For Class 54 Rating, Add</i>	715.81	
			<i>For Class 55 Rating, Add</i>	1,070.68	
			<i>For Class 56 Rating, Add</i>	1,420.86	
40 05 19 00-2812	EA		14" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,036.04	701.07
			<i>For Class 52 Rating, Deduct</i>	-547.12	
			<i>For Class 54 Rating, Add</i>	758.82	
			<i>For Class 55 Rating, Add</i>	1,134.66	
			<i>For Class 56 Rating, Add</i>	1,505.52	
40 05 19 00-2813	EA		14" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,328.27	705.01
			<i>For Class 52 Rating, Deduct</i>	-578.61	
			<i>For Class 54 Rating, Add</i>	801.83	
			<i>For Class 55 Rating, Add</i>	1,198.63	
			<i>For Class 56 Rating, Add</i>	1,590.18	
40 05 19 00-2814	EA		14" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,620.50	708.94
			<i>For Class 52 Rating, Deduct</i>	-610.10	
			<i>For Class 54 Rating, Add</i>	844.84	
			<i>For Class 55 Rating, Add</i>	1,262.62	
			<i>For Class 56 Rating, Add</i>	1,674.84	
40 05 19 00-2815	EA		14" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,912.74	712.88
			<i>For Class 52 Rating, Deduct</i>	-641.59	
			<i>For Class 54 Rating, Add</i>	887.85	
			<i>For Class 55 Rating, Add</i>	1,326.60	
			<i>For Class 56 Rating, Add</i>	1,759.50	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

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	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2816	EA			14" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,204.97	716.82
				For Class 52 Rating, Deduct	-673.08	
				For Class 54 Rating, Add	930.86	
				For Class 55 Rating, Add	1,390.57	
				For Class 56 Rating, Add	1,844.17	
40 05 19 00-2817	EA			14" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,497.20	720.76
				For Class 52 Rating, Deduct	-704.57	
				For Class 54 Rating, Add	973.88	
				For Class 55 Rating, Add	1,454.56	
				For Class 56 Rating, Add	1,928.83	
40 05 19 00-2818	EA			14" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,789.43	724.70
				For Class 52 Rating, Deduct	-736.05	
				For Class 54 Rating, Add	1,016.89	
				For Class 55 Rating, Add	1,518.53	
				For Class 56 Rating, Add	2,013.49	
40 05 19 00-2819	EA			14" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,081.66	728.64
				For Class 52 Rating, Deduct	-767.54	
				For Class 54 Rating, Add	1,059.90	
				For Class 55 Rating, Add	1,582.51	
				For Class 56 Rating, Add	2,098.15	
40 05 19 00-2820	EA			14" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,373.89	732.58
				For Class 52 Rating, Deduct	-799.03	
				For Class 54 Rating, Add	1,102.91	
				For Class 55 Rating, Add	1,646.49	
				For Class 56 Rating, Add	2,182.82	
40 05 19 00-2821	EA			14" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,666.12	736.51
				For Class 52 Rating, Deduct	-830.52	
				For Class 54 Rating, Add	1,145.92	
				For Class 55 Rating, Add	1,710.47	
				For Class 56 Rating, Add	2,267.48	
40 05 19 00-2822	EA			14" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,958.35	740.45
				For Class 52 Rating, Deduct	-862.01	
				For Class 54 Rating, Add	1,188.93	
				For Class 55 Rating, Add	1,774.45	
				For Class 56 Rating, Add	2,352.14	
40 05 19 00-2823	EA			14" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,250.58	744.40
				For Class 52 Rating, Deduct	-893.50	
				For Class 54 Rating, Add	1,231.94	
				For Class 55 Rating, Add	1,838.43	
				For Class 56 Rating, Add	2,436.80	
40 05 19 00-2824	EA			14" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,542.81	748.33
				For Class 52 Rating, Deduct	-924.99	
				For Class 54 Rating, Add	1,274.95	
				For Class 55 Rating, Add	1,902.41	
				For Class 56 Rating, Add	2,521.47	
40 05 19 00-2825	EA			14" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,835.04	752.27
				For Class 52 Rating, Deduct	-956.48	
				For Class 54 Rating, Add	1,317.96	
				For Class 55 Rating, Add	1,966.39	
				For Class 56 Rating, Add	2,606.13	
40 05 19 00-2826	EA			14" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,127.27	756.21
				For Class 52 Rating, Deduct	-987.97	
				For Class 54 Rating, Add	1,360.97	
				For Class 55 Rating, Add	2,030.37	
				For Class 56 Rating, Add	2,690.79	
40 05 19 00-2827	EA			14" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,419.50	760.14
				For Class 52 Rating, Deduct	-1,019.45	
				For Class 54 Rating, Add	1,403.99	
				For Class 55 Rating, Add	2,094.35	
				For Class 56 Rating, Add	2,775.45	
40 05 19 00-2828	EA			14" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,711.73	764.09
				For Class 52 Rating, Deduct	-1,050.94	
				For Class 54 Rating, Add	1,447.00	
				For Class 55 Rating, Add	2,158.33	
				For Class 56 Rating, Add	2,860.12	
40 05 19 00-2829	EA			14" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	11,003.96	768.03
				For Class 52 Rating, Deduct	-1,082.43	
				For Class 54 Rating, Add	1,490.01	
				For Class 55 Rating, Add	2,222.31	
				For Class 56 Rating, Add	2,944.78	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
40 05 19 00-2830	EA	14" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		11,296.20	771.96
		<i>For Class 52 Rating, Deduct</i>		-1,113.92	
		<i>For Class 54 Rating, Add</i>		1,533.02	
		<i>For Class 55 Rating, Add</i>		2,286.29	
		<i>For Class 56 Rating, Add</i>		3,029.44	
40 05 19 00-2831	EA	14" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		11,588.42	775.90
		<i>For Class 52 Rating, Deduct</i>		-1,145.41	
		<i>For Class 54 Rating, Add</i>		1,576.03	
		<i>For Class 55 Rating, Add</i>		2,350.27	
		<i>For Class 56 Rating, Add</i>		3,114.10	
40 05 19 00-2832	EA	14" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		11,880.65	779.84
		<i>For Class 52 Rating, Deduct</i>		-1,176.90	
		<i>For Class 54 Rating, Add</i>		1,619.04	
		<i>For Class 55 Rating, Add</i>		2,414.25	
		<i>For Class 56 Rating, Add</i>		3,198.77	
40 05 19 00-2833	EA	14" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		12,172.88	783.77
		<i>For Class 52 Rating, Deduct</i>		-1,208.39	
		<i>For Class 54 Rating, Add</i>		1,662.05	
		<i>For Class 55 Rating, Add</i>		2,478.23	
		<i>For Class 56 Rating, Add</i>		3,283.43	
40 05 19 00-2834	EA	14" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		12,465.12	787.72
		<i>For Class 52 Rating, Deduct</i>		-1,239.88	
		<i>For Class 54 Rating, Add</i>		1,705.06	
		<i>For Class 55 Rating, Add</i>		2,542.21	
		<i>For Class 56 Rating, Add</i>		3,368.09	
40 05 19 00-2835	EA	14" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		12,757.35	791.66
		<i>For Class 52 Rating, Deduct</i>		-1,271.37	
		<i>For Class 54 Rating, Add</i>		1,748.07	
		<i>For Class 55 Rating, Add</i>		2,606.19	
		<i>For Class 56 Rating, Add</i>		3,452.75	
40 05 19 00-2836	EA	14" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		13,049.58	795.59
		<i>For Class 52 Rating, Deduct</i>		-1,302.85	
		<i>For Class 54 Rating, Add</i>		1,791.08	
		<i>For Class 55 Rating, Add</i>		2,670.17	
		<i>For Class 56 Rating, Add</i>		3,537.41	
40 05 19 00-2837	EA	14" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		13,341.81	799.53
		<i>For Class 52 Rating, Deduct</i>		-1,334.34	
		<i>For Class 54 Rating, Add</i>		1,834.10	
		<i>For Class 55 Rating, Add</i>		2,734.15	
		<i>For Class 56 Rating, Add</i>		3,622.08	
40 05 19 00-2838	EA	14" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		13,634.04	803.47
		<i>For Class 52 Rating, Deduct</i>		-1,365.83	
		<i>For Class 54 Rating, Add</i>		1,877.11	
		<i>For Class 55 Rating, Add</i>		2,798.13	
		<i>For Class 56 Rating, Add</i>		3,706.74	
40 05 19 00-2839	EA	14" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		13,926.27	807.41
		<i>For Class 52 Rating, Deduct</i>		-1,397.32	
		<i>For Class 54 Rating, Add</i>		1,920.12	
		<i>For Class 55 Rating, Add</i>		2,862.11	
		<i>For Class 56 Rating, Add</i>		3,791.40	
40 05 19 00-2840		<b>16" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2800)</small>			
40 05 19 00-2841	EA	16" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,637.79	756.21
		<i>For Class 52 Rating, Deduct</i>		-274.12	
		<i>For Class 54 Rating, Add</i>		387.55	
		<i>For Class 55 Rating, Add</i>		583.22	
		<i>For Class 56 Rating, Add</i>		776.39	
40 05 19 00-2842	EA	16" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		3,976.02	760.14
		<i>For Class 52 Rating, Deduct</i>		-310.67	
		<i>For Class 54 Rating, Add</i>		437.46	
		<i>For Class 55 Rating, Add</i>		657.46	
		<i>For Class 56 Rating, Add</i>		874.63	
40 05 19 00-2843	EA	16" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....		4,314.26	764.09
		<i>For Class 52 Rating, Deduct</i>		-347.22	
		<i>For Class 54 Rating, Add</i>		487.38	
		<i>For Class 55 Rating, Add</i>		731.70	
		<i>For Class 56 Rating, Add</i>		972.86	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2844 EA 16" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,652.50	768.03
<i>For Class 52 Rating, Deduct</i>	-383.77	
<i>For Class 54 Rating, Add</i>	537.29	
<i>For Class 55 Rating, Add</i>	805.94	
<i>For Class 56 Rating, Add</i>	1,071.10	
40 05 19 00-2845 EA 16" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	4,990.74	771.96
<i>For Class 52 Rating, Deduct</i>	-420.32	
<i>For Class 54 Rating, Add</i>	587.20	
<i>For Class 55 Rating, Add</i>	880.18	
<i>For Class 56 Rating, Add</i>	1,169.33	
40 05 19 00-2846 EA 16" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,328.97	775.90
<i>For Class 52 Rating, Deduct</i>	-456.87	
<i>For Class 54 Rating, Add</i>	637.11	
<i>For Class 55 Rating, Add</i>	954.42	
<i>For Class 56 Rating, Add</i>	1,267.57	
40 05 19 00-2847 EA 16" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	5,667.21	779.84
<i>For Class 52 Rating, Deduct</i>	-493.42	
<i>For Class 54 Rating, Add</i>	687.02	
<i>For Class 55 Rating, Add</i>	1,028.66	
<i>For Class 56 Rating, Add</i>	1,365.80	
40 05 19 00-2848 EA 16" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,005.45	783.77
<i>For Class 52 Rating, Deduct</i>	-529.97	
<i>For Class 54 Rating, Add</i>	736.94	
<i>For Class 55 Rating, Add</i>	1,102.89	
<i>For Class 56 Rating, Add</i>	1,464.03	
40 05 19 00-2849 EA 16" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,343.69	787.72
<i>For Class 52 Rating, Deduct</i>	-566.52	
<i>For Class 54 Rating, Add</i>	786.85	
<i>For Class 55 Rating, Add</i>	1,177.13	
<i>For Class 56 Rating, Add</i>	1,562.27	
40 05 19 00-2850 EA 16" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,681.93	791.66
<i>For Class 52 Rating, Deduct</i>	-603.07	
<i>For Class 54 Rating, Add</i>	836.76	
<i>For Class 55 Rating, Add</i>	1,251.37	
<i>For Class 56 Rating, Add</i>	1,660.50	
40 05 19 00-2851 EA 16" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,020.17	795.59
<i>For Class 52 Rating, Deduct</i>	-639.62	
<i>For Class 54 Rating, Add</i>	886.67	
<i>For Class 55 Rating, Add</i>	1,325.61	
<i>For Class 56 Rating, Add</i>	1,758.74	
40 05 19 00-2852 EA 16" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,358.40	799.53
<i>For Class 52 Rating, Deduct</i>	-676.17	
<i>For Class 54 Rating, Add</i>	936.59	
<i>For Class 55 Rating, Add</i>	1,399.85	
<i>For Class 56 Rating, Add</i>	1,856.97	
40 05 19 00-2853 EA 16" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,696.64	803.47
<i>For Class 52 Rating, Deduct</i>	-712.72	
<i>For Class 54 Rating, Add</i>	986.50	
<i>For Class 55 Rating, Add</i>	1,474.09	
<i>For Class 56 Rating, Add</i>	1,955.21	
40 05 19 00-2854 EA 16" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,034.88	807.41
<i>For Class 52 Rating, Deduct</i>	-749.27	
<i>For Class 54 Rating, Add</i>	1,036.41	
<i>For Class 55 Rating, Add</i>	1,548.33	
<i>For Class 56 Rating, Add</i>	2,053.44	
40 05 19 00-2855 EA 16" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,373.12	811.35
<i>For Class 52 Rating, Deduct</i>	-785.82	
<i>For Class 54 Rating, Add</i>	1,086.32	
<i>For Class 55 Rating, Add</i>	1,622.57	
<i>For Class 56 Rating, Add</i>	2,151.68	
40 05 19 00-2856 EA 16" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,711.35	815.29
<i>For Class 52 Rating, Deduct</i>	-822.37	
<i>For Class 54 Rating, Add</i>	1,136.23	
<i>For Class 55 Rating, Add</i>	1,696.81	
<i>For Class 56 Rating, Add</i>	2,249.91	
40 05 19 00-2857 EA 16" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,049.59	819.22
<i>For Class 52 Rating, Deduct</i>	-858.92	
<i>For Class 54 Rating, Add</i>	1,186.15	
<i>For Class 55 Rating, Add</i>	1,771.05	
<i>For Class 56 Rating, Add</i>	2,348.15	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2858	EA		16" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,387.83	823.16
			<i>For Class 52 Rating, Deduct</i>	-895.47	
			<i>For Class 54 Rating, Add</i>	1,236.06	
			<i>For Class 55 Rating, Add</i>	1,845.29	
			<i>For Class 56 Rating, Add</i>	2,446.38	
40 05 19 00-2859	EA		16" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,726.05	827.10
			<i>For Class 52 Rating, Deduct</i>	-932.02	
			<i>For Class 54 Rating, Add</i>	1,285.97	
			<i>For Class 55 Rating, Add</i>	1,919.53	
			<i>For Class 56 Rating, Add</i>	2,544.61	
40 05 19 00-2860	EA		16" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,064.29	831.04
			<i>For Class 52 Rating, Deduct</i>	-968.57	
			<i>For Class 54 Rating, Add</i>	1,335.88	
			<i>For Class 55 Rating, Add</i>	1,993.77	
			<i>For Class 56 Rating, Add</i>	2,642.85	
40 05 19 00-2861	EA		16" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,402.53	834.98
			<i>For Class 52 Rating, Deduct</i>	-1,005.12	
			<i>For Class 54 Rating, Add</i>	1,385.79	
			<i>For Class 55 Rating, Add</i>	2,068.01	
			<i>For Class 56 Rating, Add</i>	2,741.08	
40 05 19 00-2862	EA		16" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,740.76	838.92
			<i>For Class 52 Rating, Deduct</i>	-1,041.66	
			<i>For Class 54 Rating, Add</i>	1,435.70	
			<i>For Class 55 Rating, Add</i>	2,142.24	
			<i>For Class 56 Rating, Add</i>	2,839.31	
40 05 19 00-2863	EA		16" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,079.00	842.85
			<i>For Class 52 Rating, Deduct</i>	-1,078.21	
			<i>For Class 54 Rating, Add</i>	1,485.62	
			<i>For Class 55 Rating, Add</i>	2,216.48	
			<i>For Class 56 Rating, Add</i>	2,937.55	
40 05 19 00-2864	EA		16" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,417.24	846.79
			<i>For Class 52 Rating, Deduct</i>	-1,114.76	
			<i>For Class 54 Rating, Add</i>	1,535.53	
			<i>For Class 55 Rating, Add</i>	2,290.72	
			<i>For Class 56 Rating, Add</i>	3,035.78	
40 05 19 00-2865	EA		16" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,755.48	850.74
			<i>For Class 52 Rating, Deduct</i>	-1,151.31	
			<i>For Class 54 Rating, Add</i>	1,585.44	
			<i>For Class 55 Rating, Add</i>	2,364.96	
			<i>For Class 56 Rating, Add</i>	3,134.02	
40 05 19 00-2866	EA		16" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,093.71	854.67
			<i>For Class 52 Rating, Deduct</i>	-1,187.86	
			<i>For Class 54 Rating, Add</i>	1,635.35	
			<i>For Class 55 Rating, Add</i>	2,439.20	
			<i>For Class 56 Rating, Add</i>	3,232.25	
40 05 19 00-2867	EA		16" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,431.96	858.61
			<i>For Class 52 Rating, Deduct</i>	-1,224.41	
			<i>For Class 54 Rating, Add</i>	1,685.27	
			<i>For Class 55 Rating, Add</i>	2,513.44	
			<i>For Class 56 Rating, Add</i>	3,330.49	
40 05 19 00-2868	EA		16" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,770.20	862.55
			<i>For Class 52 Rating, Deduct</i>	-1,260.96	
			<i>For Class 54 Rating, Add</i>	1,735.18	
			<i>For Class 55 Rating, Add</i>	2,587.68	
			<i>For Class 56 Rating, Add</i>	3,428.72	
40 05 19 00-2869	EA		16" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,108.43	866.48
			<i>For Class 52 Rating, Deduct</i>	-1,297.51	
			<i>For Class 54 Rating, Add</i>	1,785.09	
			<i>For Class 55 Rating, Add</i>	2,661.92	
			<i>For Class 56 Rating, Add</i>	3,526.96	
40 05 19 00-2870	EA		16" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,446.67	870.42
			<i>For Class 52 Rating, Deduct</i>	-1,334.06	
			<i>For Class 54 Rating, Add</i>	1,835.00	
			<i>For Class 55 Rating, Add</i>	2,736.16	
			<i>For Class 56 Rating, Add</i>	3,625.19	
40 05 19 00-2871	EA		16" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,784.91	874.37
			<i>For Class 52 Rating, Deduct</i>	-1,370.61	
			<i>For Class 54 Rating, Add</i>	1,884.91	
			<i>For Class 55 Rating, Add</i>	2,810.40	
			<i>For Class 56 Rating, Add</i>	3,723.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2872 EA 16" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,123.14	878.30
For Class 52 Rating, Deduct	-1,407.16	
For Class 54 Rating, Add	1,934.83	
For Class 55 Rating, Add	2,884.64	
For Class 56 Rating, Add	3,821.66	
40 05 19 00-2873 EA 16" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,461.38	882.24
For Class 52 Rating, Deduct	-1,443.71	
For Class 54 Rating, Add	1,984.74	
For Class 55 Rating, Add	2,958.88	
For Class 56 Rating, Add	3,919.89	
40 05 19 00-2874 EA 16" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	14,799.62	886.18
For Class 52 Rating, Deduct	-1,480.26	
For Class 54 Rating, Add	2,034.65	
For Class 55 Rating, Add	3,033.12	
For Class 56 Rating, Add	4,018.13	
40 05 19 00-2875 EA 16" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,137.86	890.12
For Class 52 Rating, Deduct	-1,516.81	
For Class 54 Rating, Add	2,084.56	
For Class 55 Rating, Add	3,107.36	
For Class 56 Rating, Add	4,116.36	
40 05 19 00-2876 EA 16" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,476.09	894.06
For Class 52 Rating, Deduct	-1,553.36	
For Class 54 Rating, Add	2,134.47	
For Class 55 Rating, Add	3,181.60	
For Class 56 Rating, Add	4,214.60	
40 05 19 00-2877 EA 16" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	15,814.33	898.00
For Class 52 Rating, Deduct	-1,589.91	
For Class 54 Rating, Add	2,184.39	
For Class 55 Rating, Add	3,255.84	
For Class 56 Rating, Add	4,312.83	
40 05 19 00-2878 EA 16" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	16,152.57	901.94
For Class 52 Rating, Deduct	-1,626.46	
For Class 54 Rating, Add	2,234.30	
For Class 55 Rating, Add	3,330.08	
For Class 56 Rating, Add	4,411.07	
<b>40 05 19 00-2879 18" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2800)</small>		
40 05 19 00-2880 EA 18" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,243.47	852.31
For Class 52 Rating, Deduct	-324.73	
For Class 54 Rating, Add	458.31	
For Class 55 Rating, Add	689.31	
For Class 56 Rating, Add	917.36	
40 05 19 00-2881 EA 18" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	4,632.82	856.26
For Class 52 Rating, Deduct	-366.90	
For Class 54 Rating, Add	515.89	
For Class 55 Rating, Add	774.95	
For Class 56 Rating, Add	1,030.67	
40 05 19 00-2882 EA 18" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,022.17	860.19
For Class 52 Rating, Deduct	-409.07	
For Class 54 Rating, Add	573.47	
For Class 55 Rating, Add	860.59	
For Class 56 Rating, Add	1,143.98	
40 05 19 00-2883 EA 18" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,411.53	864.13
For Class 52 Rating, Deduct	-451.25	
For Class 54 Rating, Add	631.05	
For Class 55 Rating, Add	946.22	
For Class 56 Rating, Add	1,257.30	
40 05 19 00-2884 EA 18" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	5,800.88	868.07
For Class 52 Rating, Deduct	-493.42	
For Class 54 Rating, Add	688.63	
For Class 55 Rating, Add	1,031.86	
For Class 56 Rating, Add	1,370.61	
40 05 19 00-2885 EA 18" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe	6,190.24	872.00
For Class 52 Rating, Deduct	-535.59	
For Class 54 Rating, Add	746.21	
For Class 55 Rating, Add	1,117.50	
For Class 56 Rating, Add	1,483.93	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2886	EA		18" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,579.60	875.94
			<i>For Class 52 Rating, Deduct</i>	-577.77	
			<i>For Class 54 Rating, Add</i>	803.79	
			<i>For Class 55 Rating, Add</i>	1,203.14	
			<i>For Class 56 Rating, Add</i>	1,597.24	
40 05 19 00-2887	EA		18" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	6,968.95	879.89
			<i>For Class 52 Rating, Deduct</i>	-619.94	
			<i>For Class 54 Rating, Add</i>	861.37	
			<i>For Class 55 Rating, Add</i>	1,288.78	
			<i>For Class 56 Rating, Add</i>	1,710.55	
40 05 19 00-2888	EA		18" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,358.30	883.82
			<i>For Class 52 Rating, Deduct</i>	-662.11	
			<i>For Class 54 Rating, Add</i>	918.95	
			<i>For Class 55 Rating, Add</i>	1,374.42	
			<i>For Class 56 Rating, Add</i>	1,823.87	
40 05 19 00-2889	EA		18" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	7,747.66	887.76
			<i>For Class 52 Rating, Deduct</i>	-704.28	
			<i>For Class 54 Rating, Add</i>	976.53	
			<i>For Class 55 Rating, Add</i>	1,460.06	
			<i>For Class 56 Rating, Add</i>	1,937.18	
40 05 19 00-2890	EA		18" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,137.03	891.70
			<i>For Class 52 Rating, Deduct</i>	-746.46	
			<i>For Class 54 Rating, Add</i>	1,034.11	
			<i>For Class 55 Rating, Add</i>	1,545.70	
			<i>For Class 56 Rating, Add</i>	2,050.50	
40 05 19 00-2891	EA		18" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,526.38	895.63
			<i>For Class 52 Rating, Deduct</i>	-788.63	
			<i>For Class 54 Rating, Add</i>	1,091.69	
			<i>For Class 55 Rating, Add</i>	1,631.34	
			<i>For Class 56 Rating, Add</i>	2,163.81	
40 05 19 00-2892	EA		18" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,915.73	899.58
			<i>For Class 52 Rating, Deduct</i>	-830.80	
			<i>For Class 54 Rating, Add</i>	1,149.27	
			<i>For Class 55 Rating, Add</i>	1,716.97	
			<i>For Class 56 Rating, Add</i>	2,277.13	
40 05 19 00-2893	EA		18" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,305.09	903.52
			<i>For Class 52 Rating, Deduct</i>	-872.97	
			<i>For Class 54 Rating, Add</i>	1,206.85	
			<i>For Class 55 Rating, Add</i>	1,802.61	
			<i>For Class 56 Rating, Add</i>	2,390.44	
40 05 19 00-2894	EA		18" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,694.44	907.46
			<i>For Class 52 Rating, Deduct</i>	-915.15	
			<i>For Class 54 Rating, Add</i>	1,264.43	
			<i>For Class 55 Rating, Add</i>	1,888.25	
			<i>For Class 56 Rating, Add</i>	2,503.76	
40 05 19 00-2895	EA		18" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,083.80	911.39
			<i>For Class 52 Rating, Deduct</i>	-957.32	
			<i>For Class 54 Rating, Add</i>	1,322.01	
			<i>For Class 55 Rating, Add</i>	1,973.89	
			<i>For Class 56 Rating, Add</i>	2,617.07	
40 05 19 00-2896	EA		18" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,473.16	915.33
			<i>For Class 52 Rating, Deduct</i>	-999.49	
			<i>For Class 54 Rating, Add</i>	1,379.59	
			<i>For Class 55 Rating, Add</i>	2,059.53	
			<i>For Class 56 Rating, Add</i>	2,730.39	
40 05 19 00-2897	EA		18" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,862.51	919.27
			<i>For Class 52 Rating, Deduct</i>	-1,041.66	
			<i>For Class 54 Rating, Add</i>	1,437.17	
			<i>For Class 55 Rating, Add</i>	2,145.17	
			<i>For Class 56 Rating, Add</i>	2,843.70	
40 05 19 00-2898	EA		18" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	11,251.86	923.21
			<i>For Class 52 Rating, Deduct</i>	-1,083.84	
			<i>For Class 54 Rating, Add</i>	1,494.75	
			<i>For Class 55 Rating, Add</i>	2,230.81	
			<i>For Class 56 Rating, Add</i>	2,957.01	
40 05 19 00-2899	EA		18" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	11,641.22	927.15
			<i>For Class 52 Rating, Deduct</i>	-1,126.01	
			<i>For Class 54 Rating, Add</i>	1,552.33	
			<i>For Class 55 Rating, Add</i>	2,316.44	
			<i>For Class 56 Rating, Add</i>	3,070.33	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2900 EA 18" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,030.58	931.09
<i>For Class 52 Rating, Deduct</i>	-1,168.18	
<i>For Class 54 Rating, Add</i>	1,609.91	
<i>For Class 55 Rating, Add</i>	2,402.08	
<i>For Class 56 Rating, Add</i>	3,183.64	
40 05 19 00-2901 EA 18" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,419.93	935.02
<i>For Class 52 Rating, Deduct</i>	-1,210.36	
<i>For Class 54 Rating, Add</i>	1,667.49	
<i>For Class 55 Rating, Add</i>	2,487.72	
<i>For Class 56 Rating, Add</i>	3,296.96	
40 05 19 00-2902 EA 18" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,809.28	938.96
<i>For Class 52 Rating, Deduct</i>	-1,252.53	
<i>For Class 54 Rating, Add</i>	1,725.06	
<i>For Class 55 Rating, Add</i>	2,573.36	
<i>For Class 56 Rating, Add</i>	3,410.27	
40 05 19 00-2903 EA 18" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,198.64	942.91
<i>For Class 52 Rating, Deduct</i>	-1,294.70	
<i>For Class 54 Rating, Add</i>	1,782.65	
<i>For Class 55 Rating, Add</i>	2,659.00	
<i>For Class 56 Rating, Add</i>	3,523.58	
40 05 19 00-2904 EA 18" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,587.99	946.84
<i>For Class 52 Rating, Deduct</i>	-1,336.87	
<i>For Class 54 Rating, Add</i>	1,840.23	
<i>For Class 55 Rating, Add</i>	2,744.64	
<i>For Class 56 Rating, Add</i>	3,636.90	
40 05 19 00-2905 EA 18" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,977.35	950.78
<i>For Class 52 Rating, Deduct</i>	-1,379.05	
<i>For Class 54 Rating, Add</i>	1,897.81	
<i>For Class 55 Rating, Add</i>	2,830.28	
<i>For Class 56 Rating, Add</i>	3,750.21	
40 05 19 00-2906 EA 18" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,366.71	954.72
<i>For Class 52 Rating, Deduct</i>	-1,421.22	
<i>For Class 54 Rating, Add</i>	1,955.39	
<i>For Class 55 Rating, Add</i>	2,915.92	
<i>For Class 56 Rating, Add</i>	3,863.53	
40 05 19 00-2907 EA 18" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,756.06	958.65
<i>For Class 52 Rating, Deduct</i>	-1,463.39	
<i>For Class 54 Rating, Add</i>	2,012.96	
<i>For Class 55 Rating, Add</i>	3,001.55	
<i>For Class 56 Rating, Add</i>	3,976.84	
40 05 19 00-2908 EA 18" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,145.41	962.59
<i>For Class 52 Rating, Deduct</i>	-1,505.56	
<i>For Class 54 Rating, Add</i>	2,070.54	
<i>For Class 55 Rating, Add</i>	3,087.19	
<i>For Class 56 Rating, Add</i>	4,090.15	
40 05 19 00-2909 EA 18" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,534.78	966.54
<i>For Class 52 Rating, Deduct</i>	-1,547.74	
<i>For Class 54 Rating, Add</i>	2,128.12	
<i>For Class 55 Rating, Add</i>	3,172.83	
<i>For Class 56 Rating, Add</i>	4,203.47	
40 05 19 00-2910 EA 18" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,924.14	970.47
<i>For Class 52 Rating, Deduct</i>	-1,589.91	
<i>For Class 54 Rating, Add</i>	2,185.70	
<i>For Class 55 Rating, Add</i>	3,258.47	
<i>For Class 56 Rating, Add</i>	4,316.79	
40 05 19 00-2911 EA 18" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,313.49	974.41
<i>For Class 52 Rating, Deduct</i>	-1,632.08	
<i>For Class 54 Rating, Add</i>	2,243.28	
<i>For Class 55 Rating, Add</i>	3,344.11	
<i>For Class 56 Rating, Add</i>	4,430.10	
40 05 19 00-2912 EA 18" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,702.84	978.35
<i>For Class 52 Rating, Deduct</i>	-1,674.26	
<i>For Class 54 Rating, Add</i>	2,300.86	
<i>For Class 55 Rating, Add</i>	3,429.75	
<i>For Class 56 Rating, Add</i>	4,543.41	
40 05 19 00-2913 EA 18" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,092.20	982.28
<i>For Class 52 Rating, Deduct</i>	-1,716.43	
<i>For Class 54 Rating, Add</i>	2,358.44	
<i>For Class 55 Rating, Add</i>	3,515.39	
<i>For Class 56 Rating, Add</i>	4,656.73	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2914	EA		18" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,481.56	986.23
			<i>For Class 52 Rating, Deduct</i>	-1,758.60	
			<i>For Class 54 Rating, Add</i>	2,416.02	
			<i>For Class 55 Rating, Add</i>	3,601.03	
			<i>For Class 56 Rating, Add</i>	4,770.04	
40 05 19 00-2915	EA		18" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,870.91	990.17
			<i>For Class 52 Rating, Deduct</i>	-1,800.77	
			<i>For Class 54 Rating, Add</i>	2,473.60	
			<i>For Class 55 Rating, Add</i>	3,686.67	
			<i>For Class 56 Rating, Add</i>	4,883.36	
40 05 19 00-2916	EA		18" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,260.27	994.10
			<i>For Class 52 Rating, Deduct</i>	-1,842.95	
			<i>For Class 54 Rating, Add</i>	2,531.18	
			<i>For Class 55 Rating, Add</i>	3,772.30	
			<i>For Class 56 Rating, Add</i>	4,996.67	
40 05 19 00-2917	EA		18" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,649.62	998.04
			<i>For Class 52 Rating, Deduct</i>	-1,885.12	
			<i>For Class 54 Rating, Add</i>	2,588.76	
			<i>For Class 55 Rating, Add</i>	3,857.94	
			<i>For Class 56 Rating, Add</i>	5,109.98	
40 05 19 00-2918			<b>20" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2600)</small>		
40 05 19 00-2919	EA		20" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,911.69	972.83
			<i>For Class 52 Rating, Deduct</i>	-378.15	
			<i>For Class 54 Rating, Add</i>	533.34	
			<i>For Class 55 Rating, Add</i>	801.98	
			<i>For Class 56 Rating, Add</i>	1,067.19	
40 05 19 00-2920	EA		20" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,354.72	976.76
			<i>For Class 52 Rating, Deduct</i>	-426.22	
			<i>For Class 54 Rating, Add</i>	598.97	
			<i>For Class 55 Rating, Add</i>	899.59	
			<i>For Class 56 Rating, Add</i>	1,196.34	
40 05 19 00-2921	EA		20" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,797.76	980.71
			<i>For Class 52 Rating, Deduct</i>	-474.30	
			<i>For Class 54 Rating, Add</i>	664.61	
			<i>For Class 55 Rating, Add</i>	997.20	
			<i>For Class 56 Rating, Add</i>	1,325.49	
40 05 19 00-2922	EA		20" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,240.78	984.65
			<i>For Class 52 Rating, Deduct</i>	-522.38	
			<i>For Class 54 Rating, Add</i>	730.24	
			<i>For Class 55 Rating, Add</i>	1,094.81	
			<i>For Class 56 Rating, Add</i>	1,454.63	
40 05 19 00-2923	EA		20" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,683.81	988.58
			<i>For Class 52 Rating, Deduct</i>	-570.46	
			<i>For Class 54 Rating, Add</i>	795.87	
			<i>For Class 55 Rating, Add</i>	1,192.42	
			<i>For Class 56 Rating, Add</i>	1,583.78	
40 05 19 00-2924	EA		20" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,126.84	992.52
			<i>For Class 52 Rating, Deduct</i>	-618.53	
			<i>For Class 54 Rating, Add</i>	861.50	
			<i>For Class 55 Rating, Add</i>	1,290.03	
			<i>For Class 56 Rating, Add</i>	1,712.93	
40 05 19 00-2925	EA		20" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,569.88	996.46
			<i>For Class 52 Rating, Deduct</i>	-666.61	
			<i>For Class 54 Rating, Add</i>	927.13	
			<i>For Class 55 Rating, Add</i>	1,387.64	
			<i>For Class 56 Rating, Add</i>	1,842.08	
40 05 19 00-2926	EA		20" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,012.90	1,000.40
			<i>For Class 52 Rating, Deduct</i>	-714.69	
			<i>For Class 54 Rating, Add</i>	992.76	
			<i>For Class 55 Rating, Add</i>	1,485.24	
			<i>For Class 56 Rating, Add</i>	1,971.23	
40 05 19 00-2927	EA		20" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,455.93	1,004.34
			<i>For Class 52 Rating, Deduct</i>	-762.76	
			<i>For Class 54 Rating, Add</i>	1,058.39	
			<i>For Class 55 Rating, Add</i>	1,582.85	
			<i>For Class 56 Rating, Add</i>	2,100.37	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2928 EA 20" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	8,898.97	1,008.28
<i>For Class 52 Rating, Deduct</i>	-810.84	
<i>For Class 54 Rating, Add</i>	1,124.02	
<i>For Class 55 Rating, Add</i>	1,680.46	
<i>For Class 56 Rating, Add</i>	2,229.52	
40 05 19 00-2929 EA 20" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,342.00	1,012.21
<i>For Class 52 Rating, Deduct</i>	-858.92	
<i>For Class 54 Rating, Add</i>	1,189.65	
<i>For Class 55 Rating, Add</i>	1,778.07	
<i>For Class 56 Rating, Add</i>	2,358.67	
40 05 19 00-2930 EA 20" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	9,785.03	1,016.15
<i>For Class 52 Rating, Deduct</i>	-906.99	
<i>For Class 54 Rating, Add</i>	1,255.29	
<i>For Class 55 Rating, Add</i>	1,875.68	
<i>For Class 56 Rating, Add</i>	2,487.82	
40 05 19 00-2931 EA 20" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,228.06	1,020.09
<i>For Class 52 Rating, Deduct</i>	-955.07	
<i>For Class 54 Rating, Add</i>	1,320.92	
<i>For Class 55 Rating, Add</i>	1,973.28	
<i>For Class 56 Rating, Add</i>	2,616.97	
40 05 19 00-2932 EA 20" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,671.08	1,024.03
<i>For Class 52 Rating, Deduct</i>	-1,003.15	
<i>For Class 54 Rating, Add</i>	1,386.55	
<i>For Class 55 Rating, Add</i>	2,070.89	
<i>For Class 56 Rating, Add</i>	2,746.11	
40 05 19 00-2933 EA 20" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	11,114.11	1,027.97
<i>For Class 52 Rating, Deduct</i>	-1,051.22	
<i>For Class 54 Rating, Add</i>	1,452.18	
<i>For Class 55 Rating, Add</i>	2,168.50	
<i>For Class 56 Rating, Add</i>	2,875.26	
40 05 19 00-2934 EA 20" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	11,557.15	1,031.91
<i>For Class 52 Rating, Deduct</i>	-1,099.30	
<i>For Class 54 Rating, Add</i>	1,517.81	
<i>For Class 55 Rating, Add</i>	2,266.11	
<i>For Class 56 Rating, Add</i>	3,004.41	
40 05 19 00-2935 EA 20" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	12,000.18	1,035.84
<i>For Class 52 Rating, Deduct</i>	-1,147.38	
<i>For Class 54 Rating, Add</i>	1,583.44	
<i>For Class 55 Rating, Add</i>	2,363.72	
<i>For Class 56 Rating, Add</i>	3,133.56	
40 05 19 00-2936 EA 20" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	12,443.20	1,039.78
<i>For Class 52 Rating, Deduct</i>	-1,195.45	
<i>For Class 54 Rating, Add</i>	1,649.07	
<i>For Class 55 Rating, Add</i>	2,461.32	
<i>For Class 56 Rating, Add</i>	3,262.71	
40 05 19 00-2937 EA 20" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	12,886.23	1,043.73
<i>For Class 52 Rating, Deduct</i>	-1,243.53	
<i>For Class 54 Rating, Add</i>	1,714.70	
<i>For Class 55 Rating, Add</i>	2,558.93	
<i>For Class 56 Rating, Add</i>	3,391.86	
40 05 19 00-2938 EA 20" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,329.27	1,047.67
<i>For Class 52 Rating, Deduct</i>	-1,291.61	
<i>For Class 54 Rating, Add</i>	1,780.33	
<i>For Class 55 Rating, Add</i>	2,656.54	
<i>For Class 56 Rating, Add</i>	3,521.01	
40 05 19 00-2939 EA 20" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,772.29	1,051.60
<i>For Class 52 Rating, Deduct</i>	-1,339.69	
<i>For Class 54 Rating, Add</i>	1,845.96	
<i>For Class 55 Rating, Add</i>	2,754.15	
<i>For Class 56 Rating, Add</i>	3,650.15	
40 05 19 00-2940 EA 20" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,215.32	1,055.54
<i>For Class 52 Rating, Deduct</i>	-1,387.76	
<i>For Class 54 Rating, Add</i>	1,911.59	
<i>For Class 55 Rating, Add</i>	2,851.76	
<i>For Class 56 Rating, Add</i>	3,779.30	
40 05 19 00-2941 EA 20" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,658.35	1,059.48
<i>For Class 52 Rating, Deduct</i>	-1,435.84	
<i>For Class 54 Rating, Add</i>	1,977.23	
<i>For Class 55 Rating, Add</i>	2,949.36	
<i>For Class 56 Rating, Add</i>	3,908.45	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2942	EA		20" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,101.38	1,063.41
			<i>For Class 52 Rating, Deduct</i>	-1,483.92	
			<i>For Class 54 Rating, Add</i>	2,042.86	
			<i>For Class 55 Rating, Add</i>	3,046.97	
			<i>For Class 56 Rating, Add</i>	4,037.60	
40 05 19 00-2943	EA		20" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,544.41	1,067.36
			<i>For Class 52 Rating, Deduct</i>	-1,531.99	
			<i>For Class 54 Rating, Add</i>	2,108.49	
			<i>For Class 55 Rating, Add</i>	3,144.58	
			<i>For Class 56 Rating, Add</i>	4,166.75	
40 05 19 00-2944	EA		20" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,987.44	1,071.30
			<i>For Class 52 Rating, Deduct</i>	-1,580.07	
			<i>For Class 54 Rating, Add</i>	2,174.12	
			<i>For Class 55 Rating, Add</i>	3,242.19	
			<i>For Class 56 Rating, Add</i>	4,295.89	
40 05 19 00-2945	EA		20" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,430.47	1,075.23
			<i>For Class 52 Rating, Deduct</i>	-1,628.15	
			<i>For Class 54 Rating, Add</i>	2,239.75	
			<i>For Class 55 Rating, Add</i>	3,339.80	
			<i>For Class 56 Rating, Add</i>	4,425.04	
40 05 19 00-2946	EA		20" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,873.50	1,079.17
			<i>For Class 52 Rating, Deduct</i>	-1,676.22	
			<i>For Class 54 Rating, Add</i>	2,305.38	
			<i>For Class 55 Rating, Add</i>	3,437.41	
			<i>For Class 56 Rating, Add</i>	4,554.19	
40 05 19 00-2947	EA		20" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,316.53	1,083.11
			<i>For Class 52 Rating, Deduct</i>	-1,724.30	
			<i>For Class 54 Rating, Add</i>	2,371.01	
			<i>For Class 55 Rating, Add</i>	3,535.01	
			<i>For Class 56 Rating, Add</i>	4,683.34	
40 05 19 00-2948	EA		20" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,759.57	1,087.05
			<i>For Class 52 Rating, Deduct</i>	-1,772.38	
			<i>For Class 54 Rating, Add</i>	2,436.64	
			<i>For Class 55 Rating, Add</i>	3,632.62	
			<i>For Class 56 Rating, Add</i>	4,812.49	
40 05 19 00-2949	EA		20" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,202.59	1,090.99
			<i>For Class 52 Rating, Deduct</i>	-1,820.45	
			<i>For Class 54 Rating, Add</i>	2,502.27	
			<i>For Class 55 Rating, Add</i>	3,730.23	
			<i>For Class 56 Rating, Add</i>	4,941.63	
40 05 19 00-2950	EA		20" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,645.62	1,094.93
			<i>For Class 52 Rating, Deduct</i>	-1,868.53	
			<i>For Class 54 Rating, Add</i>	2,567.90	
			<i>For Class 55 Rating, Add</i>	3,827.84	
			<i>For Class 56 Rating, Add</i>	5,070.78	
40 05 19 00-2951	EA		20" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,088.66	1,098.86
			<i>For Class 52 Rating, Deduct</i>	-1,916.61	
			<i>For Class 54 Rating, Add</i>	2,633.54	
			<i>For Class 55 Rating, Add</i>	3,925.45	
			<i>For Class 56 Rating, Add</i>	5,199.93	
40 05 19 00-2952	EA		20" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,531.68	1,102.80
			<i>For Class 52 Rating, Deduct</i>	-1,964.68	
			<i>For Class 54 Rating, Add</i>	2,699.17	
			<i>For Class 55 Rating, Add</i>	4,023.05	
			<i>For Class 56 Rating, Add</i>	5,329.08	
40 05 19 00-2953	EA		20" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,974.71	1,106.74
			<i>For Class 52 Rating, Deduct</i>	-2,012.76	
			<i>For Class 54 Rating, Add</i>	2,764.80	
			<i>For Class 55 Rating, Add</i>	4,120.66	
			<i>For Class 56 Rating, Add</i>	5,458.23	
40 05 19 00-2954	EA		20" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,417.74	1,110.68
			<i>For Class 52 Rating, Deduct</i>	-2,060.84	
			<i>For Class 54 Rating, Add</i>	2,830.43	
			<i>For Class 55 Rating, Add</i>	4,218.27	
			<i>For Class 56 Rating, Add</i>	5,587.38	
40 05 19 00-2955	EA		20" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,860.78	1,114.62
			<i>For Class 52 Rating, Deduct</i>	-2,108.92	
			<i>For Class 54 Rating, Add</i>	2,896.06	
			<i>For Class 55 Rating, Add</i>	4,315.88	
			<i>For Class 56 Rating, Add</i>	5,716.53	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2956 EA 20" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,303.80	1,118.56
<i>For Class 52 Rating, Deduct</i>	-2,156.99	
<i>For Class 54 Rating, Add</i>	2,961.69	
<i>For Class 55 Rating, Add</i>	4,413.49	
<i>For Class 56 Rating, Add</i>	5,845.67	
<b>40 05 19 00-2957 24" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(#40 05 19 00-2600)</small></b>		
40 05 19 00-2958 EA 24" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,082.47	1,150.06
<i>For Class 52 Rating, Deduct</i>	-477.39	
<i>For Class 54 Rating, Add</i>	671.90	
<i>For Class 55 Rating, Add</i>	1,009.63	
<i>For Class 56 Rating, Add</i>	1,343.02	
40 05 19 00-2959 EA 24" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,630.30	1,154.01
<i>For Class 52 Rating, Deduct</i>	-537.00	
<i>For Class 54 Rating, Add</i>	753.25	
<i>For Class 55 Rating, Add</i>	1,130.61	
<i>For Class 56 Rating, Add</i>	1,503.08	
40 05 19 00-2960 EA 24" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,178.12	1,157.94
<i>For Class 52 Rating, Deduct</i>	-596.60	
<i>For Class 54 Rating, Add</i>	834.60	
<i>For Class 55 Rating, Add</i>	1,251.58	
<i>For Class 56 Rating, Add</i>	1,663.14	
40 05 19 00-2961 EA 24" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,725.95	1,161.88
<i>For Class 52 Rating, Deduct</i>	-656.21	
<i>For Class 54 Rating, Add</i>	915.95	
<i>For Class 55 Rating, Add</i>	1,372.56	
<i>For Class 56 Rating, Add</i>	1,823.20	
40 05 19 00-2962 EA 24" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,273.77	1,165.82
<i>For Class 52 Rating, Deduct</i>	-715.81	
<i>For Class 54 Rating, Add</i>	997.30	
<i>For Class 55 Rating, Add</i>	1,493.54	
<i>For Class 56 Rating, Add</i>	1,983.26	
40 05 19 00-2963 EA 24" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,821.59	1,169.75
<i>For Class 52 Rating, Deduct</i>	-775.42	
<i>For Class 54 Rating, Add</i>	1,078.65	
<i>For Class 55 Rating, Add</i>	1,614.51	
<i>For Class 56 Rating, Add</i>	2,143.33	
40 05 19 00-2964 EA 24" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,369.41	1,173.70
<i>For Class 52 Rating, Deduct</i>	-835.02	
<i>For Class 54 Rating, Add</i>	1,160.00	
<i>For Class 55 Rating, Add</i>	1,735.49	
<i>For Class 56 Rating, Add</i>	2,303.39	
40 05 19 00-2965 EA 24" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,917.24	1,177.64
<i>For Class 52 Rating, Deduct</i>	-894.62	
<i>For Class 54 Rating, Add</i>	1,241.35	
<i>For Class 55 Rating, Add</i>	1,856.47	
<i>For Class 56 Rating, Add</i>	2,463.45	
40 05 19 00-2966 EA 24" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,465.06	1,181.57
<i>For Class 52 Rating, Deduct</i>	-954.23	
<i>For Class 54 Rating, Add</i>	1,322.70	
<i>For Class 55 Rating, Add</i>	1,977.44	
<i>For Class 56 Rating, Add</i>	2,623.51	
40 05 19 00-2967 EA 24" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,012.88	1,185.51
<i>For Class 52 Rating, Deduct</i>	-1,013.83	
<i>For Class 54 Rating, Add</i>	1,404.05	
<i>For Class 55 Rating, Add</i>	2,098.42	
<i>For Class 56 Rating, Add</i>	2,783.58	
40 05 19 00-2968 EA 24" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,560.70	1,189.45
<i>For Class 52 Rating, Deduct</i>	-1,073.44	
<i>For Class 54 Rating, Add</i>	1,485.40	
<i>For Class 55 Rating, Add</i>	2,219.40	
<i>For Class 56 Rating, Add</i>	2,943.64	
40 05 19 00-2969 EA 24" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,108.53	1,193.38
<i>For Class 52 Rating, Deduct</i>	-1,133.04	
<i>For Class 54 Rating, Add</i>	1,566.75	
<i>For Class 55 Rating, Add</i>	2,340.38	
<i>For Class 56 Rating, Add</i>	3,103.70	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2970	EA		24" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	12,656.34	1,197.33
			<i>For Class 52 Rating, Deduct</i> .....	-1,192.64	
			<i>For Class 54 Rating, Add</i> .....	1,648.10	
			<i>For Class 55 Rating, Add</i> .....	2,461.35	
			<i>For Class 56 Rating, Add</i> .....	3,263.76	
40 05 19 00-2971	EA		24" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,204.17	1,201.27
			<i>For Class 52 Rating, Deduct</i> .....	-1,252.25	
			<i>For Class 54 Rating, Add</i> .....	1,729.45	
			<i>For Class 55 Rating, Add</i> .....	2,582.33	
			<i>For Class 56 Rating, Add</i> .....	3,423.82	
40 05 19 00-2972	EA		24" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,751.99	1,205.20
			<i>For Class 52 Rating, Deduct</i> .....	-1,311.85	
			<i>For Class 54 Rating, Add</i> .....	1,810.80	
			<i>For Class 55 Rating, Add</i> .....	2,703.31	
			<i>For Class 56 Rating, Add</i> .....	3,583.88	
40 05 19 00-2973	EA		24" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,299.81	1,209.14
			<i>For Class 52 Rating, Deduct</i> .....	-1,371.46	
			<i>For Class 54 Rating, Add</i> .....	1,892.15	
			<i>For Class 55 Rating, Add</i> .....	2,824.28	
			<i>For Class 56 Rating, Add</i> .....	3,743.95	
40 05 19 00-2974	EA		24" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,847.63	1,213.08
			<i>For Class 52 Rating, Deduct</i> .....	-1,431.06	
			<i>For Class 54 Rating, Add</i> .....	1,973.50	
			<i>For Class 55 Rating, Add</i> .....	2,945.26	
			<i>For Class 56 Rating, Add</i> .....	3,904.01	
40 05 19 00-2975	EA		24" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	15,395.46	1,217.03
			<i>For Class 52 Rating, Deduct</i> .....	-1,490.66	
			<i>For Class 54 Rating, Add</i> .....	2,054.85	
			<i>For Class 55 Rating, Add</i> .....	3,066.24	
			<i>For Class 56 Rating, Add</i> .....	4,064.07	
40 05 19 00-2976	EA		24" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	15,943.28	1,220.96
			<i>For Class 52 Rating, Deduct</i> .....	-1,550.27	
			<i>For Class 54 Rating, Add</i> .....	2,136.20	
			<i>For Class 55 Rating, Add</i> .....	3,187.21	
			<i>For Class 56 Rating, Add</i> .....	4,224.13	
40 05 19 00-2977	EA		24" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	16,491.10	1,224.90
			<i>For Class 52 Rating, Deduct</i> .....	-1,609.87	
			<i>For Class 54 Rating, Add</i> .....	2,217.55	
			<i>For Class 55 Rating, Add</i> .....	3,308.19	
			<i>For Class 56 Rating, Add</i> .....	4,384.20	
40 05 19 00-2978	EA		24" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	17,038.92	1,228.84
			<i>For Class 52 Rating, Deduct</i> .....	-1,669.48	
			<i>For Class 54 Rating, Add</i> .....	2,298.90	
			<i>For Class 55 Rating, Add</i> .....	3,429.17	
			<i>For Class 56 Rating, Add</i> .....	4,544.26	
40 05 19 00-2979	EA		24" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	17,586.76	1,232.77
			<i>For Class 52 Rating, Deduct</i> .....	-1,729.08	
			<i>For Class 54 Rating, Add</i> .....	2,380.25	
			<i>For Class 55 Rating, Add</i> .....	3,550.15	
			<i>For Class 56 Rating, Add</i> .....	4,704.32	
40 05 19 00-2980	EA		24" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	18,134.57	1,236.72
			<i>For Class 52 Rating, Deduct</i> .....	-1,788.68	
			<i>For Class 54 Rating, Add</i> .....	2,461.60	
			<i>For Class 55 Rating, Add</i> .....	3,671.12	
			<i>For Class 56 Rating, Add</i> .....	4,864.38	
40 05 19 00-2981	EA		24" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	18,682.40	1,240.66
			<i>For Class 52 Rating, Deduct</i> .....	-1,848.29	
			<i>For Class 54 Rating, Add</i> .....	2,542.95	
			<i>For Class 55 Rating, Add</i> .....	3,792.10	
			<i>For Class 56 Rating, Add</i> .....	5,024.44	
40 05 19 00-2982	EA		24" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	19,230.22	1,244.59
			<i>For Class 52 Rating, Deduct</i> .....	-1,907.89	
			<i>For Class 54 Rating, Add</i> .....	2,624.30	
			<i>For Class 55 Rating, Add</i> .....	3,913.07	
			<i>For Class 56 Rating, Add</i> .....	5,184.51	
40 05 19 00-2983	EA		24" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	19,778.04	1,248.53
			<i>For Class 52 Rating, Deduct</i> .....	-1,967.50	
			<i>For Class 54 Rating, Add</i> .....	2,705.65	
			<i>For Class 55 Rating, Add</i> .....	4,034.05	
			<i>For Class 56 Rating, Add</i> .....	5,344.57	



<b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>
<b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span>
<b>Ductile Iron Process Pipe</b> <span style="float: right;"><b>40 05 19</b></span>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2984 EA 24" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,325.86	1,252.47
<i>For Class 52 Rating, Deduct</i>	-2,027.10	
<i>For Class 54 Rating, Add</i>	2,787.00	
<i>For Class 55 Rating, Add</i>	4,155.03	
<i>For Class 56 Rating, Add</i>	5,504.63	
40 05 19 00-2985 EA 24" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,873.69	1,256.40
<i>For Class 52 Rating, Deduct</i>	-2,086.70	
<i>For Class 54 Rating, Add</i>	2,868.35	
<i>For Class 55 Rating, Add</i>	4,276.01	
<i>For Class 56 Rating, Add</i>	5,664.69	
40 05 19 00-2986 EA 24" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,421.51	1,260.35
<i>For Class 52 Rating, Deduct</i>	-2,146.31	
<i>For Class 54 Rating, Add</i>	2,949.70	
<i>For Class 55 Rating, Add</i>	4,396.98	
<i>For Class 56 Rating, Add</i>	5,824.75	
40 05 19 00-2987 EA 24" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,070.78	1,331.24
<i>For Class 52 Rating, Deduct</i>	-2,205.91	
<i>For Class 54 Rating, Add</i>	3,032.27	
<i>For Class 55 Rating, Add</i>	4,520.39	
<i>For Class 56 Rating, Add</i>	5,988.47	
40 05 19 00-2988 EA 24" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,618.60	1,335.18
<i>For Class 52 Rating, Deduct</i>	-2,265.52	
<i>For Class 54 Rating, Add</i>	3,113.62	
<i>For Class 55 Rating, Add</i>	4,641.37	
<i>For Class 56 Rating, Add</i>	6,148.53	
40 05 19 00-2989 EA 24" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,166.43	1,339.11
<i>For Class 52 Rating, Deduct</i>	-2,325.12	
<i>For Class 54 Rating, Add</i>	3,194.97	
<i>For Class 55 Rating, Add</i>	4,762.35	
<i>For Class 56 Rating, Add</i>	6,308.59	
40 05 19 00-2990 EA 24" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,714.24	1,343.05
<i>For Class 52 Rating, Deduct</i>	-2,384.72	
<i>For Class 54 Rating, Add</i>	3,276.32	
<i>For Class 55 Rating, Add</i>	4,883.32	
<i>For Class 56 Rating, Add</i>	6,468.65	
40 05 19 00-2991 EA 24" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,262.07	1,347.00
<i>For Class 52 Rating, Deduct</i>	-2,444.33	
<i>For Class 54 Rating, Add</i>	3,357.67	
<i>For Class 55 Rating, Add</i>	5,004.30	
<i>For Class 56 Rating, Add</i>	6,628.72	
40 05 19 00-2992 EA 24" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,807.34	1,350.93
<i>For Class 52 Rating, Deduct</i>	-2,503.65	
<i>For Class 54 Rating, Add</i>	3,438.63	
<i>For Class 55 Rating, Add</i>	5,124.71	
<i>For Class 56 Rating, Add</i>	6,788.03	
40 05 19 00-2993 EA 24" Flanged x Grooved (FxG), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,357.71	1,354.87
<i>For Class 52 Rating, Deduct</i>	-2,563.54	
<i>For Class 54 Rating, Add</i>	3,520.37	
<i>For Class 55 Rating, Add</i>	5,246.26	
<i>For Class 56 Rating, Add</i>	6,948.84	
40 05 19 00-2994 EA 24" Flanged x Grooved (FxG), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,905.53	1,358.81
<i>For Class 52 Rating, Deduct</i>	-2,623.14	
<i>For Class 54 Rating, Add</i>	3,601.72	
<i>For Class 55 Rating, Add</i>	5,367.23	
<i>For Class 56 Rating, Add</i>	7,108.90	
40 05 19 00-2995 EA 24" Flanged x Grooved (FxG), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,453.36	1,362.74
<i>For Class 52 Rating, Deduct</i>	-2,682.74	
<i>For Class 54 Rating, Add</i>	3,683.07	
<i>For Class 55 Rating, Add</i>	5,488.21	
<i>For Class 56 Rating, Add</i>	7,268.97	
<b>40 05 19 00-2996 30" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2600)</small>		
40 05 19 00-2997 EA 30" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,293.16	1,622.69
<i>For Class 52 Rating, Deduct</i>	-751.80	
<i>For Class 54 Rating, Add</i>	1,054.68	
<i>For Class 55 Rating, Add</i>	1,583.11	
<i>For Class 56 Rating, Add</i>	2,104.70	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-2998	EA		30" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,076.13	1,626.64
			<i>For Class 52 Rating, Deduct</i>	-837.27	
			<i>For Class 54 Rating, Add</i>	1,171.30	
			<i>For Class 55 Rating, Add</i>	1,756.52	
			<i>For Class 56 Rating, Add</i>	2,334.13	
40 05 19 00-2999	EA		30" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	10,859.10	1,630.57
			<i>For Class 52 Rating, Deduct</i>	-922.74	
			<i>For Class 54 Rating, Add</i>	1,287.93	
			<i>For Class 55 Rating, Add</i>	1,929.94	
			<i>For Class 56 Rating, Add</i>	2,563.56	
40 05 19 00-3000	EA		30" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	11,642.06	1,634.51
			<i>For Class 52 Rating, Deduct</i>	-1,008.21	
			<i>For Class 54 Rating, Add</i>	1,404.55	
			<i>For Class 55 Rating, Add</i>	2,103.35	
			<i>For Class 56 Rating, Add</i>	2,792.99	
40 05 19 00-3001	EA		30" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	12,425.03	1,638.45
			<i>For Class 52 Rating, Deduct</i>	-1,093.68	
			<i>For Class 54 Rating, Add</i>	1,521.17	
			<i>For Class 55 Rating, Add</i>	2,276.76	
			<i>For Class 56 Rating, Add</i>	3,022.42	
40 05 19 00-3002	EA		30" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,208.00	1,642.38
			<i>For Class 52 Rating, Deduct</i>	-1,179.15	
			<i>For Class 54 Rating, Add</i>	1,637.79	
			<i>For Class 55 Rating, Add</i>	2,450.18	
			<i>For Class 56 Rating, Add</i>	3,251.85	
40 05 19 00-3003	EA		30" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	13,990.96	1,646.33
			<i>For Class 52 Rating, Deduct</i>	-1,264.62	
			<i>For Class 54 Rating, Add</i>	1,754.41	
			<i>For Class 55 Rating, Add</i>	2,623.59	
			<i>For Class 56 Rating, Add</i>	3,481.28	
40 05 19 00-3004	EA		30" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	14,773.93	1,650.27
			<i>For Class 52 Rating, Deduct</i>	-1,350.09	
			<i>For Class 54 Rating, Add</i>	1,871.03	
			<i>For Class 55 Rating, Add</i>	2,797.01	
			<i>For Class 56 Rating, Add</i>	3,710.71	
40 05 19 00-3005	EA		30" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	15,556.90	1,654.20
			<i>For Class 52 Rating, Deduct</i>	-1,435.56	
			<i>For Class 54 Rating, Add</i>	1,987.66	
			<i>For Class 55 Rating, Add</i>	2,970.42	
			<i>For Class 56 Rating, Add</i>	3,940.14	
40 05 19 00-3006	EA		30" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	16,339.86	1,658.14
			<i>For Class 52 Rating, Deduct</i>	-1,521.03	
			<i>For Class 54 Rating, Add</i>	2,104.28	
			<i>For Class 55 Rating, Add</i>	3,143.84	
			<i>For Class 56 Rating, Add</i>	4,169.57	
40 05 19 00-3007	EA		30" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	17,122.83	1,662.08
			<i>For Class 52 Rating, Deduct</i>	-1,606.50	
			<i>For Class 54 Rating, Add</i>	2,220.90	
			<i>For Class 55 Rating, Add</i>	3,317.25	
			<i>For Class 56 Rating, Add</i>	4,399.00	
40 05 19 00-3008	EA		30" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	17,905.80	1,666.01
			<i>For Class 52 Rating, Deduct</i>	-1,691.97	
			<i>For Class 54 Rating, Add</i>	2,337.52	
			<i>For Class 55 Rating, Add</i>	3,490.66	
			<i>For Class 56 Rating, Add</i>	4,628.43	
40 05 19 00-3009	EA		30" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	18,688.77	1,669.96
			<i>For Class 52 Rating, Deduct</i>	-1,777.44	
			<i>For Class 54 Rating, Add</i>	2,454.14	
			<i>For Class 55 Rating, Add</i>	3,664.08	
			<i>For Class 56 Rating, Add</i>	4,857.85	
40 05 19 00-3010	EA		30" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	19,471.73	1,673.90
			<i>For Class 52 Rating, Deduct</i>	-1,862.91	
			<i>For Class 54 Rating, Add</i>	2,570.76	
			<i>For Class 55 Rating, Add</i>	3,837.49	
			<i>For Class 56 Rating, Add</i>	5,087.28	
40 05 19 00-3011	EA		30" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	20,254.70	1,677.83
			<i>For Class 52 Rating, Deduct</i>	-1,948.38	
			<i>For Class 54 Rating, Add</i>	2,687.39	
			<i>For Class 55 Rating, Add</i>	4,010.91	
			<i>For Class 56 Rating, Add</i>	5,316.71	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3012 EA 30" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	21,037.68	1,681.77
<i>For Class 52 Rating, Deduct</i>	-2,033.85	
<i>For Class 54 Rating, Add</i>	2,804.01	
<i>For Class 55 Rating, Add</i>	4,184.32	
<i>For Class 56 Rating, Add</i>	5,546.14	
40 05 19 00-3013 EA 30" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	21,820.63	1,685.71
<i>For Class 52 Rating, Deduct</i>	-2,119.32	
<i>For Class 54 Rating, Add</i>	2,920.63	
<i>For Class 55 Rating, Add</i>	4,357.73	
<i>For Class 56 Rating, Add</i>	5,775.57	
40 05 19 00-3014 EA 30" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	22,603.60	1,689.65
<i>For Class 52 Rating, Deduct</i>	-2,204.79	
<i>For Class 54 Rating, Add</i>	3,037.25	
<i>For Class 55 Rating, Add</i>	4,531.15	
<i>For Class 56 Rating, Add</i>	6,005.00	
40 05 19 00-3015 EA 30" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	23,386.57	1,693.59
<i>For Class 52 Rating, Deduct</i>	-2,290.26	
<i>For Class 54 Rating, Add</i>	3,153.87	
<i>For Class 55 Rating, Add</i>	4,704.56	
<i>For Class 56 Rating, Add</i>	6,234.43	
40 05 19 00-3016 EA 30" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	24,169.53	1,697.53
<i>For Class 52 Rating, Deduct</i>	-2,375.73	
<i>For Class 54 Rating, Add</i>	3,270.49	
<i>For Class 55 Rating, Add</i>	4,877.98	
<i>For Class 56 Rating, Add</i>	6,463.86	
40 05 19 00-3017 EA 30" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	24,952.50	1,701.47
<i>For Class 52 Rating, Deduct</i>	-2,461.20	
<i>For Class 54 Rating, Add</i>	3,387.11	
<i>For Class 55 Rating, Add</i>	5,051.39	
<i>For Class 56 Rating, Add</i>	6,693.29	
40 05 19 00-3018 EA 30" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	25,735.47	1,705.40
<i>For Class 52 Rating, Deduct</i>	-2,546.67	
<i>For Class 54 Rating, Add</i>	3,503.74	
<i>For Class 55 Rating, Add</i>	5,224.80	
<i>For Class 56 Rating, Add</i>	6,922.72	
40 05 19 00-3019 EA 30" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	26,518.44	1,709.34
<i>For Class 52 Rating, Deduct</i>	-2,632.14	
<i>For Class 54 Rating, Add</i>	3,620.36	
<i>For Class 55 Rating, Add</i>	5,398.22	
<i>For Class 56 Rating, Add</i>	7,152.15	
40 05 19 00-3020 EA 30" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	27,301.40	1,713.29
<i>For Class 52 Rating, Deduct</i>	-2,717.61	
<i>For Class 54 Rating, Add</i>	3,736.98	
<i>For Class 55 Rating, Add</i>	5,571.63	
<i>For Class 56 Rating, Add</i>	7,381.58	
40 05 19 00-3021 EA 30" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	28,084.37	1,717.22
<i>For Class 52 Rating, Deduct</i>	-2,803.08	
<i>For Class 54 Rating, Add</i>	3,853.60	
<i>For Class 55 Rating, Add</i>	5,745.05	
<i>For Class 56 Rating, Add</i>	7,611.01	
40 05 19 00-3022 EA 30" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	28,867.34	1,721.16
<i>For Class 52 Rating, Deduct</i>	-2,888.55	
<i>For Class 54 Rating, Add</i>	3,970.22	
<i>For Class 55 Rating, Add</i>	5,918.46	
<i>For Class 56 Rating, Add</i>	7,840.44	
40 05 19 00-3023 EA 30" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	29,650.30	1,725.10
<i>For Class 52 Rating, Deduct</i>	-2,974.02	
<i>For Class 54 Rating, Add</i>	4,086.84	
<i>For Class 55 Rating, Add</i>	6,091.87	
<i>For Class 56 Rating, Add</i>	8,069.87	
40 05 19 00-3024 EA 30" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	30,433.27	1,729.03
<i>For Class 52 Rating, Deduct</i>	-3,059.49	
<i>For Class 54 Rating, Add</i>	4,203.47	
<i>For Class 55 Rating, Add</i>	6,265.29	
<i>For Class 56 Rating, Add</i>	8,299.30	
40 05 19 00-3025 EA 30" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....	31,216.24	1,732.98
<i>For Class 52 Rating, Deduct</i>	-3,144.96	
<i>For Class 54 Rating, Add</i>	4,320.09	
<i>For Class 55 Rating, Add</i>	6,438.70	
<i>For Class 56 Rating, Add</i>	8,528.73	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3026	EA		30" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,999.20	1,736.92
			<i>For Class 52 Rating, Deduct</i>	-3,230.43	
			<i>For Class 54 Rating, Add</i>	4,436.71	
			<i>For Class 55 Rating, Add</i>	6,612.12	
			<i>For Class 56 Rating, Add</i>	8,758.16	
40 05 19 00-3027	EA		30" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	32,782.17	1,740.85
			<i>For Class 52 Rating, Deduct</i>	-3,315.90	
			<i>For Class 54 Rating, Add</i>	4,553.33	
			<i>For Class 55 Rating, Add</i>	6,785.53	
			<i>For Class 56 Rating, Add</i>	8,987.59	
40 05 19 00-3028	EA		30" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	33,565.14	1,744.79
			<i>For Class 52 Rating, Deduct</i>	-3,401.37	
			<i>For Class 54 Rating, Add</i>	4,669.95	
			<i>For Class 55 Rating, Add</i>	6,958.95	
			<i>For Class 56 Rating, Add</i>	9,217.02	
40 05 19 00-3029	EA		30" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	34,348.11	1,748.73
			<i>For Class 52 Rating, Deduct</i>	-3,486.84	
			<i>For Class 54 Rating, Add</i>	4,786.57	
			<i>For Class 55 Rating, Add</i>	7,132.36	
			<i>For Class 56 Rating, Add</i>	9,446.45	
40 05 19 00-3030	EA		30" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	35,131.07	1,752.66
			<i>For Class 52 Rating, Deduct</i>	-3,572.31	
			<i>For Class 54 Rating, Add</i>	4,903.19	
			<i>For Class 55 Rating, Add</i>	7,305.77	
			<i>For Class 56 Rating, Add</i>	9,675.88	
40 05 19 00-3031	EA		30" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	35,914.05	1,756.61
			<i>For Class 52 Rating, Deduct</i>	-3,657.78	
			<i>For Class 54 Rating, Add</i>	5,019.82	
			<i>For Class 55 Rating, Add</i>	7,479.19	
			<i>For Class 56 Rating, Add</i>	9,905.31	
40 05 19 00-3032			<b>36" Flanged End x Grooved End (FxG), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-2600)</small>		
40 05 19 00-3033	EA		36" Flanged x Grooved (FxG), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,778.99	2,055.94
			<i>For Class 52 Rating, Deduct</i>	-1,063.03	
			<i>For Class 54 Rating, Add</i>	1,486.97	
			<i>For Class 55 Rating, Add</i>	2,229.82	
			<i>For Class 56 Rating, Add</i>	2,963.00	
40 05 19 00-3034	EA		36" Flanged x Grooved (FxG), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,827.78	2,059.88
			<i>For Class 52 Rating, Deduct</i>	-1,177.74	
			<i>For Class 54 Rating, Add</i>	1,643.46	
			<i>For Class 55 Rating, Add</i>	2,462.51	
			<i>For Class 56 Rating, Add</i>	3,270.85	
40 05 19 00-3035	EA		36" Flanged x Grooved (FxG), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,876.56	2,063.82
			<i>For Class 52 Rating, Deduct</i>	-1,292.45	
			<i>For Class 54 Rating, Add</i>	1,799.96	
			<i>For Class 55 Rating, Add</i>	2,695.20	
			<i>For Class 56 Rating, Add</i>	3,578.69	
40 05 19 00-3036	EA		36" Flanged x Grooved (FxG), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,925.34	2,067.75
			<i>For Class 52 Rating, Deduct</i>	-1,407.16	
			<i>For Class 54 Rating, Add</i>	1,956.45	
			<i>For Class 55 Rating, Add</i>	2,927.89	
			<i>For Class 56 Rating, Add</i>	3,886.54	
40 05 19 00-3037	EA		36" Flanged x Grooved (FxG), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,974.13	2,071.69
			<i>For Class 52 Rating, Deduct</i>	-1,521.87	
			<i>For Class 54 Rating, Add</i>	2,112.95	
			<i>For Class 55 Rating, Add</i>	3,160.58	
			<i>For Class 56 Rating, Add</i>	4,194.39	
40 05 19 00-3038	EA		36" Flanged x Grooved (FxG), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,022.91	2,075.64
			<i>For Class 52 Rating, Deduct</i>	-1,636.58	
			<i>For Class 54 Rating, Add</i>	2,269.44	
			<i>For Class 55 Rating, Add</i>	3,393.27	
			<i>For Class 56 Rating, Add</i>	4,502.23	
40 05 19 00-3039	EA		36" Flanged x Grooved (FxG), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,071.70	2,079.57
			<i>For Class 52 Rating, Deduct</i>	-1,751.29	
			<i>For Class 54 Rating, Add</i>	2,425.93	
			<i>For Class 55 Rating, Add</i>	3,625.97	
			<i>For Class 56 Rating, Add</i>	4,810.08	



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

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	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3040	EA 36" Flanged x Grooved (FxG), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		20,120.47	2,083.51
	<i>For Class 52 Rating, Deduct</i>		-1,866.00	
	<i>For Class 54 Rating, Add</i>		2,582.43	
	<i>For Class 55 Rating, Add</i>		3,858.66	
	<i>For Class 56 Rating, Add</i>		5,117.92	
40 05 19 00-3041	EA 36" Flanged x Grooved (FxG), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		21,169.26	2,087.45
	<i>For Class 52 Rating, Deduct</i>		-1,980.71	
	<i>For Class 54 Rating, Add</i>		2,738.92	
	<i>For Class 55 Rating, Add</i>		4,091.35	
	<i>For Class 56 Rating, Add</i>		5,425.77	
40 05 19 00-3042	EA 36" Flanged x Grooved (FxG), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		22,218.04	2,091.38
	<i>For Class 52 Rating, Deduct</i>		-2,095.42	
	<i>For Class 54 Rating, Add</i>		2,895.42	
	<i>For Class 55 Rating, Add</i>		4,324.04	
	<i>For Class 56 Rating, Add</i>		5,733.61	
40 05 19 00-3043	EA 36" Flanged x Grooved (FxG), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		23,266.82	2,095.32
	<i>For Class 52 Rating, Deduct</i>		-2,210.13	
	<i>For Class 54 Rating, Add</i>		3,051.91	
	<i>For Class 55 Rating, Add</i>		4,556.73	
	<i>For Class 56 Rating, Add</i>		6,041.46	
40 05 19 00-3044	EA 36" Flanged x Grooved (FxG), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		24,315.60	2,099.27
	<i>For Class 52 Rating, Deduct</i>		-2,324.84	
	<i>For Class 54 Rating, Add</i>		3,208.40	
	<i>For Class 55 Rating, Add</i>		4,789.42	
	<i>For Class 56 Rating, Add</i>		6,349.30	
40 05 19 00-3045	EA 36" Flanged x Grooved (FxG), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		25,364.39	2,103.20
	<i>For Class 52 Rating, Deduct</i>		-2,439.55	
	<i>For Class 54 Rating, Add</i>		3,364.90	
	<i>For Class 55 Rating, Add</i>		5,022.11	
	<i>For Class 56 Rating, Add</i>		6,657.15	
40 05 19 00-3046	EA 36" Flanged x Grooved (FxG), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		26,413.16	2,107.14
	<i>For Class 52 Rating, Deduct</i>		-2,554.26	
	<i>For Class 54 Rating, Add</i>		3,521.39	
	<i>For Class 55 Rating, Add</i>		5,254.80	
	<i>For Class 56 Rating, Add</i>		6,964.99	
40 05 19 00-3047	EA 36" Flanged x Grooved (FxG), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		27,461.95	2,111.08
	<i>For Class 52 Rating, Deduct</i>		-2,668.97	
	<i>For Class 54 Rating, Add</i>		3,677.89	
	<i>For Class 55 Rating, Add</i>		5,487.49	
	<i>For Class 56 Rating, Add</i>		7,272.84	
40 05 19 00-3048	EA 36" Flanged x Grooved (FxG), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		28,510.73	2,115.01
	<i>For Class 52 Rating, Deduct</i>		-2,783.68	
	<i>For Class 54 Rating, Add</i>		3,834.38	
	<i>For Class 55 Rating, Add</i>		5,720.18	
	<i>For Class 56 Rating, Add</i>		7,580.68	
40 05 19 00-3049	EA 36" Flanged x Grooved (FxG), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		29,559.52	2,118.96
	<i>For Class 52 Rating, Deduct</i>		-2,898.39	
	<i>For Class 54 Rating, Add</i>		3,990.87	
	<i>For Class 55 Rating, Add</i>		5,952.88	
	<i>For Class 56 Rating, Add</i>		7,888.53	
40 05 19 00-3050	EA 36" Flanged x Grooved (FxG), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe .....		30,608.29	2,122.90
	<i>For Class 52 Rating, Deduct</i>		-3,013.10	
	<i>For Class 54 Rating, Add</i>		4,147.37	
	<i>For Class 55 Rating, Add</i>		6,185.57	
	<i>For Class 56 Rating, Add</i>		8,196.37	
40 05 19 00-3051	EA 36" Flanged x Grooved (FxG), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Coat, Ductile Iron Pipe .....		31,657.08	2,126.83
	<i>For Class 52 Rating, Deduct</i>		-3,127.81	
	<i>For Class 54 Rating, Add</i>		4,303.86	
	<i>For Class 55 Rating, Add</i>		6,418.26	
	<i>For Class 56 Rating, Add</i>		8,504.22	
40 05 19 00-3052	EA 36" Flanged x Grooved (FxG), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Coat, Ductile Iron Pipe .....		32,705.88	2,130.77
	<i>For Class 52 Rating, Deduct</i>		-3,242.52	
	<i>For Class 54 Rating, Add</i>		4,460.36	
	<i>For Class 55 Rating, Add</i>		6,650.95	
	<i>For Class 56 Rating, Add</i>		8,812.07	
40 05 19 00-3053	EA 36" Flanged x Grooved (FxG), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Coat, Ductile Iron Pipe .....		33,754.65	2,134.71
	<i>For Class 52 Rating, Deduct</i>		-3,357.23	
	<i>For Class 54 Rating, Add</i>		4,616.85	
	<i>For Class 55 Rating, Add</i>		6,883.64	
	<i>For Class 56 Rating, Add</i>		9,119.91	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3054	EA		36" Flanged x Grooved (FxG), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	34,803.44	2,138.64
			<i>For Class 52 Rating, Deduct</i>	-3,471.94	
			<i>For Class 54 Rating, Add</i>	4,773.34	
			<i>For Class 55 Rating, Add</i>	7,116.33	
			<i>For Class 56 Rating, Add</i>	9,427.76	
40 05 19 00-3055	EA		36" Flanged x Grooved (FxG), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	35,852.22	2,142.59
			<i>For Class 52 Rating, Deduct</i>	-3,586.65	
			<i>For Class 54 Rating, Add</i>	4,929.84	
			<i>For Class 55 Rating, Add</i>	7,349.02	
			<i>For Class 56 Rating, Add</i>	9,735.60	
40 05 19 00-3056	EA		36" Flanged x Grooved (FxG), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	36,901.00	2,146.53
			<i>For Class 52 Rating, Deduct</i>	-3,701.36	
			<i>For Class 54 Rating, Add</i>	5,086.33	
			<i>For Class 55 Rating, Add</i>	7,581.71	
			<i>For Class 56 Rating, Add</i>	10,043.45	
40 05 19 00-3057	EA		36" Flanged x Grooved (FxG), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	37,949.78	2,150.46
			<i>For Class 52 Rating, Deduct</i>	-3,816.07	
			<i>For Class 54 Rating, Add</i>	5,242.82	
			<i>For Class 55 Rating, Add</i>	7,814.40	
			<i>For Class 56 Rating, Add</i>	10,351.29	
40 05 19 00-3058	EA		36" Flanged x Grooved (FxG), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	38,998.57	2,154.40
			<i>For Class 52 Rating, Deduct</i>	-3,930.78	
			<i>For Class 54 Rating, Add</i>	5,399.32	
			<i>For Class 55 Rating, Add</i>	8,047.10	
			<i>For Class 56 Rating, Add</i>	10,659.14	
40 05 19 00-3059	EA		36" Flanged x Grooved (FxG), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	40,047.35	2,158.34
			<i>For Class 52 Rating, Deduct</i>	-4,045.48	
			<i>For Class 54 Rating, Add</i>	5,555.81	
			<i>For Class 55 Rating, Add</i>	8,279.79	
			<i>For Class 56 Rating, Add</i>	10,966.98	
40 05 19 00-3060	EA		36" Flanged x Grooved (FxG), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	41,096.13	2,162.28
			<i>For Class 52 Rating, Deduct</i>	-4,160.19	
			<i>For Class 54 Rating, Add</i>	5,712.31	
			<i>For Class 55 Rating, Add</i>	8,512.48	
			<i>For Class 56 Rating, Add</i>	11,274.83	
40 05 19 00-3061	EA		36" Flanged x Grooved (FxG), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	42,144.91	2,166.22
			<i>For Class 52 Rating, Deduct</i>	-4,274.90	
			<i>For Class 54 Rating, Add</i>	5,868.80	
			<i>For Class 55 Rating, Add</i>	8,745.17	
			<i>For Class 56 Rating, Add</i>	11,582.67	
40 05 19 00-3062	EA		36" Flanged x Grooved (FxG), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	43,193.70	2,170.16
			<i>For Class 52 Rating, Deduct</i>	-4,389.61	
			<i>For Class 54 Rating, Add</i>	6,025.29	
			<i>For Class 55 Rating, Add</i>	8,977.86	
			<i>For Class 56 Rating, Add</i>	11,890.52	
40 05 19 00-3063	EA		36" Flanged x Grooved (FxG), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	44,242.47	2,174.09
			<i>For Class 52 Rating, Deduct</i>	-4,504.32	
			<i>For Class 54 Rating, Add</i>	6,181.79	
			<i>For Class 55 Rating, Add</i>	9,210.55	
			<i>For Class 56 Rating, Add</i>	12,198.36	
40 05 19 00-3064	EA		36" Flanged x Grooved (FxG), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	45,291.26	2,178.03
			<i>For Class 52 Rating, Deduct</i>	-4,619.03	
			<i>For Class 54 Rating, Add</i>	6,338.28	
			<i>For Class 55 Rating, Add</i>	9,443.24	
			<i>For Class 56 Rating, Add</i>	12,506.21	
40 05 19 00-3065	EA		36" Flanged x Grooved (FxG), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	46,340.04	2,181.97
			<i>For Class 52 Rating, Deduct</i>	-4,733.74	
			<i>For Class 54 Rating, Add</i>	6,494.78	
			<i>For Class 55 Rating, Add</i>	9,675.93	
			<i>For Class 56 Rating, Add</i>	12,814.05	
40 05 19 00-3066	EA		36" Flanged x Grooved (FxG), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	47,388.82	2,185.92
			<i>For Class 52 Rating, Deduct</i>	-4,848.45	
			<i>For Class 54 Rating, Add</i>	6,651.27	
			<i>For Class 55 Rating, Add</i>	9,908.62	
			<i>For Class 56 Rating, Add</i>	13,121.90	
40 05 19 00-3067	EA		36" Flanged x Grooved (FxG), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	48,437.61	2,189.85
			<i>For Class 52 Rating, Deduct</i>	-4,963.16	
			<i>For Class 54 Rating, Add</i>	6,807.76	
			<i>For Class 55 Rating, Add</i>	10,141.31	
			<i>For Class 56 Rating, Add</i>	13,429.75	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3068 Flanged End x Plain End (FxPE), Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-2059)</small>		
40 05 19 00-3069 4" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3070 EA 4" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	723.79	192.62
<i>For Class 52 Rating, Deduct</i> .....	-47.51	
<i>For Class 54 Rating, Add</i> .....	68.29	
<i>For Class 55 Rating, Add</i> .....	103.33	
<i>For Class 56 Rating, Add</i> .....	137.93	
40 05 19 00-3071 EA 4" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	826.03	195.99
<i>For Class 52 Rating, Deduct</i> .....	-58.20	
<i>For Class 54 Rating, Add</i> .....	82.93	
<i>For Class 55 Rating, Add</i> .....	125.11	
<i>For Class 56 Rating, Add</i> .....	166.77	
40 05 19 00-3072 EA 4" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	928.25	199.36
<i>For Class 52 Rating, Deduct</i> .....	-68.88	
<i>For Class 54 Rating, Add</i> .....	97.55	
<i>For Class 55 Rating, Add</i> .....	146.89	
<i>For Class 56 Rating, Add</i> .....	195.60	
40 05 19 00-3073 EA 4" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,030.48	202.72
<i>For Class 52 Rating, Deduct</i> .....	-79.57	
<i>For Class 54 Rating, Add</i> .....	112.19	
<i>For Class 55 Rating, Add</i> .....	168.67	
<i>For Class 56 Rating, Add</i> .....	224.44	
40 05 19 00-3074 EA 4" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,132.70	206.09
<i>For Class 52 Rating, Deduct</i> .....	-90.25	
<i>For Class 54 Rating, Add</i> .....	126.81	
<i>For Class 55 Rating, Add</i> .....	190.45	
<i>For Class 56 Rating, Add</i> .....	253.27	
40 05 19 00-3075 EA 4" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,234.94	209.46
<i>For Class 52 Rating, Deduct</i> .....	-100.93	
<i>For Class 54 Rating, Add</i> .....	141.45	
<i>For Class 55 Rating, Add</i> .....	212.24	
<i>For Class 56 Rating, Add</i> .....	282.11	
40 05 19 00-3076 EA 4" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,337.16	212.83
<i>For Class 52 Rating, Deduct</i> .....	-111.62	
<i>For Class 54 Rating, Add</i> .....	156.07	
<i>For Class 55 Rating, Add</i> .....	234.02	
<i>For Class 56 Rating, Add</i> .....	310.95	
40 05 19 00-3077 EA 4" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,439.39	216.19
<i>For Class 52 Rating, Deduct</i> .....	-122.30	
<i>For Class 54 Rating, Add</i> .....	170.71	
<i>For Class 55 Rating, Add</i> .....	255.80	
<i>For Class 56 Rating, Add</i> .....	339.78	
40 05 19 00-3078 EA 4" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,541.61	219.56
<i>For Class 52 Rating, Deduct</i> .....	-132.98	
<i>For Class 54 Rating, Add</i> .....	185.33	
<i>For Class 55 Rating, Add</i> .....	277.58	
<i>For Class 56 Rating, Add</i> .....	368.62	
40 05 19 00-3079 EA 4" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,643.84	222.93
<i>For Class 52 Rating, Deduct</i> .....	-143.67	
<i>For Class 54 Rating, Add</i> .....	199.97	
<i>For Class 55 Rating, Add</i> .....	299.36	
<i>For Class 56 Rating, Add</i> .....	397.45	
40 05 19 00-3080 EA 4" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,746.07	226.29
<i>For Class 52 Rating, Deduct</i> .....	-154.35	
<i>For Class 54 Rating, Add</i> .....	214.59	
<i>For Class 55 Rating, Add</i> .....	321.14	
<i>For Class 56 Rating, Add</i> .....	426.29	
40 05 19 00-3081 EA 4" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,848.29	229.66
<i>For Class 52 Rating, Deduct</i> .....	-165.04	
<i>For Class 54 Rating, Add</i> .....	229.22	
<i>For Class 55 Rating, Add</i> .....	342.92	
<i>For Class 56 Rating, Add</i> .....	455.12	
40 05 19 00-3082 EA 4" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,950.52	233.03
<i>For Class 52 Rating, Deduct</i> .....	-175.72	
<i>For Class 54 Rating, Add</i> .....	243.85	
<i>For Class 55 Rating, Add</i> .....	364.71	
<i>For Class 56 Rating, Add</i> .....	483.96	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3083	EA		4" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,052.75	236.40
			<i>For Class 52 Rating, Deduct</i>	-186.40	
			<i>For Class 54 Rating, Add</i>	258.49	
			<i>For Class 55 Rating, Add</i>	386.49	
			<i>For Class 56 Rating, Add</i>	512.80	
40 05 19 00-3084	EA		4" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,154.97	239.76
			<i>For Class 52 Rating, Deduct</i>	-197.09	
			<i>For Class 54 Rating, Add</i>	273.11	
			<i>For Class 55 Rating, Add</i>	408.27	
			<i>For Class 56 Rating, Add</i>	541.63	
40 05 19 00-3085	EA		4" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,257.20	243.13
			<i>For Class 52 Rating, Deduct</i>	-207.77	
			<i>For Class 54 Rating, Add</i>	287.74	
			<i>For Class 55 Rating, Add</i>	430.05	
			<i>For Class 56 Rating, Add</i>	570.46	
40 05 19 00-3086	EA		4" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,359.43	246.51
			<i>For Class 52 Rating, Deduct</i>	-218.45	
			<i>For Class 54 Rating, Add</i>	302.37	
			<i>For Class 55 Rating, Add</i>	451.83	
			<i>For Class 56 Rating, Add</i>	599.30	
40 05 19 00-3087	EA		4" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,461.65	249.86
			<i>For Class 52 Rating, Deduct</i>	-229.14	
			<i>For Class 54 Rating, Add</i>	317.00	
			<i>For Class 55 Rating, Add</i>	473.61	
			<i>For Class 56 Rating, Add</i>	628.13	
40 05 19 00-3088	EA		4" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,563.88	253.24
			<i>For Class 52 Rating, Deduct</i>	-239.82	
			<i>For Class 54 Rating, Add</i>	331.63	
			<i>For Class 55 Rating, Add</i>	495.39	
			<i>For Class 56 Rating, Add</i>	656.97	
40 05 19 00-3089	EA		4" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,666.11	256.60
			<i>For Class 52 Rating, Deduct</i>	-250.51	
			<i>For Class 54 Rating, Add</i>	346.26	
			<i>For Class 55 Rating, Add</i>	517.17	
			<i>For Class 56 Rating, Add</i>	685.81	
40 05 19 00-3090	EA		4" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,768.34	259.98
			<i>For Class 52 Rating, Deduct</i>	-261.19	
			<i>For Class 54 Rating, Add</i>	360.89	
			<i>For Class 55 Rating, Add</i>	538.96	
			<i>For Class 56 Rating, Add</i>	714.64	
40 05 19 00-3091	EA		4" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,870.56	263.33
			<i>For Class 52 Rating, Deduct</i>	-271.87	
			<i>For Class 54 Rating, Add</i>	375.52	
			<i>For Class 55 Rating, Add</i>	560.74	
			<i>For Class 56 Rating, Add</i>	743.48	
40 05 19 00-3092	EA		4" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,972.79	266.71
			<i>For Class 52 Rating, Deduct</i>	-282.56	
			<i>For Class 54 Rating, Add</i>	390.15	
			<i>For Class 55 Rating, Add</i>	582.52	
			<i>For Class 56 Rating, Add</i>	772.31	
40 05 19 00-3093	EA		4" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,075.01	270.07
			<i>For Class 52 Rating, Deduct</i>	-293.24	
			<i>For Class 54 Rating, Add</i>	404.78	
			<i>For Class 55 Rating, Add</i>	604.30	
			<i>For Class 56 Rating, Add</i>	801.15	
40 05 19 00-3094	EA		4" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,427.73	273.44
			<i>For Class 52 Rating, Deduct</i>	-331.48	
			<i>For Class 54 Rating, Add</i>	456.99	
			<i>For Class 55 Rating, Add</i>	681.94	
			<i>For Class 56 Rating, Add</i>	903.88	
40 05 19 00-3095	EA		4" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,529.95	276.80
			<i>For Class 52 Rating, Deduct</i>	-342.16	
			<i>For Class 54 Rating, Add</i>	471.62	
			<i>For Class 55 Rating, Add</i>	703.72	
			<i>For Class 56 Rating, Add</i>	932.71	
40 05 19 00-3096	EA		4" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,632.18	280.18
			<i>For Class 52 Rating, Deduct</i>	-352.84	
			<i>For Class 54 Rating, Add</i>	486.25	
			<i>For Class 55 Rating, Add</i>	725.50	
			<i>For Class 56 Rating, Add</i>	961.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3097 EA 4" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,734.40	283.54
<i>For Class 52 Rating, Deduct</i>	-363.53	
<i>For Class 54 Rating, Add</i>	500.88	
<i>For Class 55 Rating, Add</i>	747.28	
<i>For Class 56 Rating, Add</i>	990.38	
40 05 19 00-3098 EA 4" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,836.63	286.91
<i>For Class 52 Rating, Deduct</i>	-374.21	
<i>For Class 54 Rating, Add</i>	515.51	
<i>For Class 55 Rating, Add</i>	769.06	
<i>For Class 56 Rating, Add</i>	1,019.22	
40 05 19 00-3099 EA 4" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,938.86	290.27
<i>For Class 52 Rating, Deduct</i>	-384.90	
<i>For Class 54 Rating, Add</i>	530.14	
<i>For Class 55 Rating, Add</i>	790.84	
<i>For Class 56 Rating, Add</i>	1,048.05	
40 05 19 00-3100 EA 4" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,041.09	293.65
<i>For Class 52 Rating, Deduct</i>	-395.58	
<i>For Class 54 Rating, Add</i>	544.77	
<i>For Class 55 Rating, Add</i>	812.63	
<i>For Class 56 Rating, Add</i>	1,076.89	
40 05 19 00-3101 EA 4" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,143.31	297.02
<i>For Class 52 Rating, Deduct</i>	-406.26	
<i>For Class 54 Rating, Add</i>	559.40	
<i>For Class 55 Rating, Add</i>	834.41	
<i>For Class 56 Rating, Add</i>	1,105.72	
40 05 19 00-3102 EA 4" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,245.54	300.38
<i>For Class 52 Rating, Deduct</i>	-416.95	
<i>For Class 54 Rating, Add</i>	574.03	
<i>For Class 55 Rating, Add</i>	856.19	
<i>For Class 56 Rating, Add</i>	1,134.56	
40 05 19 00-3103 EA 4" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,347.77	303.75
<i>For Class 52 Rating, Deduct</i>	-427.63	
<i>For Class 54 Rating, Add</i>	588.66	
<i>For Class 55 Rating, Add</i>	877.97	
<i>For Class 56 Rating, Add</i>	1,163.40	
40 05 19 00-3104 EA 4" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,450.00	307.12
<i>For Class 52 Rating, Deduct</i>	-438.31	
<i>For Class 54 Rating, Add</i>	603.29	
<i>For Class 55 Rating, Add</i>	899.75	
<i>For Class 56 Rating, Add</i>	1,192.23	
40 05 19 00-3105 EA 4" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,552.22	310.47
<i>For Class 52 Rating, Deduct</i>	-449.00	
<i>For Class 54 Rating, Add</i>	617.92	
<i>For Class 55 Rating, Add</i>	921.53	
<i>For Class 56 Rating, Add</i>	1,221.07	
40 05 19 00-3106 EA 4" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,654.45	313.85
<i>For Class 52 Rating, Deduct</i>	-459.68	
<i>For Class 54 Rating, Add</i>	632.55	
<i>For Class 55 Rating, Add</i>	943.31	
<i>For Class 56 Rating, Add</i>	1,249.90	
40 05 19 00-3107 EA 4" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,756.67	317.22
<i>For Class 52 Rating, Deduct</i>	-470.37	
<i>For Class 54 Rating, Add</i>	647.17	
<i>For Class 55 Rating, Add</i>	965.09	
<i>For Class 56 Rating, Add</i>	1,278.74	
40 05 19 00-3108 EA 4" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,858.91	320.59
<i>For Class 52 Rating, Deduct</i>	-481.05	
<i>For Class 54 Rating, Add</i>	661.81	
<i>For Class 55 Rating, Add</i>	986.88	
<i>For Class 56 Rating, Add</i>	1,307.57	
<b>40 05 19 00-3109 6" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small>		
40 05 19 00-3110 EA 6" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	891.32	242.46
<i>For Class 52 Rating, Deduct</i>	-57.64	
<i>For Class 54 Rating, Add</i>	83.00	
<i>For Class 55 Rating, Add</i>	125.66	
<i>For Class 56 Rating, Add</i>	167.79	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3111	EA		6" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,008.89	245.84
			<i>For Class 52 Rating, Deduct</i>	-70.01	
			<i>For Class 54 Rating, Add</i>	99.93	
			<i>For Class 55 Rating, Add</i>	150.86	
			<i>For Class 56 Rating, Add</i>	201.15	
40 05 19 00-3112	EA		6" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,126.45	249.19
			<i>For Class 52 Rating, Deduct</i>	-82.38	
			<i>For Class 54 Rating, Add</i>	116.86	
			<i>For Class 55 Rating, Add</i>	176.06	
			<i>For Class 56 Rating, Add</i>	234.51	
40 05 19 00-3113	EA		6" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,244.01	252.56
			<i>For Class 52 Rating, Deduct</i>	-94.75	
			<i>For Class 54 Rating, Add</i>	133.79	
			<i>For Class 55 Rating, Add</i>	201.26	
			<i>For Class 56 Rating, Add</i>	267.87	
40 05 19 00-3114	EA		6" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,361.58	255.93
			<i>For Class 52 Rating, Deduct</i>	-107.12	
			<i>For Class 54 Rating, Add</i>	150.72	
			<i>For Class 55 Rating, Add</i>	226.47	
			<i>For Class 56 Rating, Add</i>	301.23	
40 05 19 00-3115	EA		6" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,479.15	259.29
			<i>For Class 52 Rating, Deduct</i>	-119.49	
			<i>For Class 54 Rating, Add</i>	167.66	
			<i>For Class 55 Rating, Add</i>	251.67	
			<i>For Class 56 Rating, Add</i>	334.59	
40 05 19 00-3116	EA		6" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,596.71	262.66
			<i>For Class 52 Rating, Deduct</i>	-131.86	
			<i>For Class 54 Rating, Add</i>	184.59	
			<i>For Class 55 Rating, Add</i>	276.87	
			<i>For Class 56 Rating, Add</i>	367.95	
40 05 19 00-3117	EA		6" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,714.27	266.04
			<i>For Class 52 Rating, Deduct</i>	-144.23	
			<i>For Class 54 Rating, Add</i>	201.52	
			<i>For Class 55 Rating, Add</i>	302.07	
			<i>For Class 56 Rating, Add</i>	401.31	
40 05 19 00-3118	EA		6" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,831.83	269.40
			<i>For Class 52 Rating, Deduct</i>	-156.60	
			<i>For Class 54 Rating, Add</i>	218.45	
			<i>For Class 55 Rating, Add</i>	327.27	
			<i>For Class 56 Rating, Add</i>	434.67	
40 05 19 00-3119	EA		6" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,949.39	272.77
			<i>For Class 52 Rating, Deduct</i>	-168.97	
			<i>For Class 54 Rating, Add</i>	235.38	
			<i>For Class 55 Rating, Add</i>	352.47	
			<i>For Class 56 Rating, Add</i>	468.03	
40 05 19 00-3120	EA		6" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,066.96	276.13
			<i>For Class 52 Rating, Deduct</i>	-181.34	
			<i>For Class 54 Rating, Add</i>	252.31	
			<i>For Class 55 Rating, Add</i>	377.67	
			<i>For Class 56 Rating, Add</i>	501.39	
40 05 19 00-3121	EA		6" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,184.52	279.51
			<i>For Class 52 Rating, Deduct</i>	-193.71	
			<i>For Class 54 Rating, Add</i>	269.24	
			<i>For Class 55 Rating, Add</i>	402.87	
			<i>For Class 56 Rating, Add</i>	534.75	
40 05 19 00-3122	EA		6" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,302.08	282.86
			<i>For Class 52 Rating, Deduct</i>	-206.08	
			<i>For Class 54 Rating, Add</i>	286.17	
			<i>For Class 55 Rating, Add</i>	428.07	
			<i>For Class 56 Rating, Add</i>	568.11	
40 05 19 00-3123	EA		6" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,419.64	286.24
			<i>For Class 52 Rating, Deduct</i>	-218.45	
			<i>For Class 54 Rating, Add</i>	303.10	
			<i>For Class 55 Rating, Add</i>	453.28	
			<i>For Class 56 Rating, Add</i>	601.47	
40 05 19 00-3124	EA		6" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,537.20	289.60
			<i>For Class 52 Rating, Deduct</i>	-230.83	
			<i>For Class 54 Rating, Add</i>	320.03	
			<i>For Class 55 Rating, Add</i>	478.48	
			<i>For Class 56 Rating, Add</i>	634.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3125 EA 6" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,654.77	292.98
<i>For Class 52 Rating, Deduct</i>	-243.20	
<i>For Class 54 Rating, Add</i>	336.96	
<i>For Class 55 Rating, Add</i>	503.68	
<i>For Class 56 Rating, Add</i>	668.19	
40 05 19 00-3126 EA 6" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,772.33	296.33
<i>For Class 52 Rating, Deduct</i>	-255.57	
<i>For Class 54 Rating, Add</i>	353.89	
<i>For Class 55 Rating, Add</i>	528.88	
<i>For Class 56 Rating, Add</i>	701.55	
40 05 19 00-3127 EA 6" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,889.89	299.71
<i>For Class 52 Rating, Deduct</i>	-267.94	
<i>For Class 54 Rating, Add</i>	370.82	
<i>For Class 55 Rating, Add</i>	554.08	
<i>For Class 56 Rating, Add</i>	734.91	
40 05 19 00-3128 EA 6" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,007.45	303.07
<i>For Class 52 Rating, Deduct</i>	-280.31	
<i>For Class 54 Rating, Add</i>	387.75	
<i>For Class 55 Rating, Add</i>	579.28	
<i>For Class 56 Rating, Add</i>	768.26	
40 05 19 00-3129 EA 6" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,125.02	306.45
<i>For Class 52 Rating, Deduct</i>	-292.68	
<i>For Class 54 Rating, Add</i>	404.68	
<i>For Class 55 Rating, Add</i>	604.48	
<i>For Class 56 Rating, Add</i>	801.62	
40 05 19 00-3130 EA 6" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,242.58	309.80
<i>For Class 52 Rating, Deduct</i>	-305.05	
<i>For Class 54 Rating, Add</i>	421.61	
<i>For Class 55 Rating, Add</i>	629.68	
<i>For Class 56 Rating, Add</i>	834.98	
40 05 19 00-3131 EA 6" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,360.14	313.18
<i>For Class 52 Rating, Deduct</i>	-317.42	
<i>For Class 54 Rating, Add</i>	438.54	
<i>For Class 55 Rating, Add</i>	654.88	
<i>For Class 56 Rating, Add</i>	868.34	
40 05 19 00-3132 EA 6" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,477.70	316.55
<i>For Class 52 Rating, Deduct</i>	-329.79	
<i>For Class 54 Rating, Add</i>	455.47	
<i>For Class 55 Rating, Add</i>	680.08	
<i>For Class 56 Rating, Add</i>	901.70	
40 05 19 00-3133 EA 6" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,595.26	319.91
<i>For Class 52 Rating, Deduct</i>	-342.16	
<i>For Class 54 Rating, Add</i>	472.40	
<i>For Class 55 Rating, Add</i>	705.29	
<i>For Class 56 Rating, Add</i>	935.06	
40 05 19 00-3134 EA 6" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,712.84	323.28
<i>For Class 52 Rating, Deduct</i>	-354.53	
<i>For Class 54 Rating, Add</i>	489.33	
<i>For Class 55 Rating, Add</i>	730.49	
<i>For Class 56 Rating, Add</i>	968.42	
40 05 19 00-3135 EA 6" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,830.40	326.65
<i>For Class 52 Rating, Deduct</i>	-366.90	
<i>For Class 54 Rating, Add</i>	506.26	
<i>For Class 55 Rating, Add</i>	755.69	
<i>For Class 56 Rating, Add</i>	1,001.78	
40 05 19 00-3136 EA 6" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,947.96	330.02
<i>For Class 52 Rating, Deduct</i>	-379.27	
<i>For Class 54 Rating, Add</i>	523.19	
<i>For Class 55 Rating, Add</i>	780.89	
<i>For Class 56 Rating, Add</i>	1,035.14	
40 05 19 00-3137 EA 6" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,065.52	333.38
<i>For Class 52 Rating, Deduct</i>	-391.64	
<i>For Class 54 Rating, Add</i>	540.12	
<i>For Class 55 Rating, Add</i>	806.09	
<i>For Class 56 Rating, Add</i>	1,068.50	
40 05 19 00-3138 EA 6" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,183.09	336.75
<i>For Class 52 Rating, Deduct</i>	-404.01	
<i>For Class 54 Rating, Add</i>	557.05	
<i>For Class 55 Rating, Add</i>	831.29	
<i>For Class 56 Rating, Add</i>	1,101.86	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3139	EA	6" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,300.65	340.12
		<i>For Class 52 Rating, Deduct</i>	-416.39	
		<i>For Class 54 Rating, Add</i>	573.98	
		<i>For Class 55 Rating, Add</i>	856.49	
		<i>For Class 56 Rating, Add</i>	1,135.22	
40 05 19 00-3140	EA	6" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,418.21	343.48
		<i>For Class 52 Rating, Deduct</i>	-428.76	
		<i>For Class 54 Rating, Add</i>	590.91	
		<i>For Class 55 Rating, Add</i>	881.70	
		<i>For Class 56 Rating, Add</i>	1,168.58	
40 05 19 00-3141	EA	6" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,535.77	346.85
		<i>For Class 52 Rating, Deduct</i>	-441.13	
		<i>For Class 54 Rating, Add</i>	607.84	
		<i>For Class 55 Rating, Add</i>	906.90	
		<i>For Class 56 Rating, Add</i>	1,201.94	
40 05 19 00-3142	EA	6" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,653.33	350.22
		<i>For Class 52 Rating, Deduct</i>	-453.50	
		<i>For Class 54 Rating, Add</i>	624.77	
		<i>For Class 55 Rating, Add</i>	932.10	
		<i>For Class 56 Rating, Add</i>	1,235.30	
40 05 19 00-3143	EA	6" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,770.90	353.59
		<i>For Class 52 Rating, Deduct</i>	-465.87	
		<i>For Class 54 Rating, Add</i>	641.70	
		<i>For Class 55 Rating, Add</i>	957.30	
		<i>For Class 56 Rating, Add</i>	1,268.66	
40 05 19 00-3144	EA	6" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,888.46	356.95
		<i>For Class 52 Rating, Deduct</i>	-478.24	
		<i>For Class 54 Rating, Add</i>	658.63	
		<i>For Class 55 Rating, Add</i>	982.50	
		<i>For Class 56 Rating, Add</i>	1,302.02	
40 05 19 00-3145	EA	6" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,006.02	360.32
		<i>For Class 52 Rating, Deduct</i>	-490.61	
		<i>For Class 54 Rating, Add</i>	675.56	
		<i>For Class 55 Rating, Add</i>	1,007.70	
		<i>For Class 56 Rating, Add</i>	1,335.38	
40 05 19 00-3146	EA	6" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,123.58	363.69
		<i>For Class 52 Rating, Deduct</i>	-502.98	
		<i>For Class 54 Rating, Add</i>	692.49	
		<i>For Class 55 Rating, Add</i>	1,032.90	
		<i>For Class 56 Rating, Add</i>	1,368.74	
40 05 19 00-3147	EA	6" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,241.14	367.05
		<i>For Class 52 Rating, Deduct</i>	-515.35	
		<i>For Class 54 Rating, Add</i>	709.42	
		<i>For Class 55 Rating, Add</i>	1,058.10	
		<i>For Class 56 Rating, Add</i>	1,402.10	
40 05 19 00-3148	EA	6" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,358.71	370.42
		<i>For Class 52 Rating, Deduct</i>	-527.72	
		<i>For Class 54 Rating, Add</i>	726.35	
		<i>For Class 55 Rating, Add</i>	1,083.30	
		<i>For Class 56 Rating, Add</i>	1,435.46	
40 05 19 00-3149		<b>8" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small>		
40 05 19 00-3150	EA	8" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,208.07	309.80
		<i>For Class 52 Rating, Deduct</i>	-81.25	
		<i>For Class 54 Rating, Add</i>	116.43	
		<i>For Class 55 Rating, Add</i>	175.99	
		<i>For Class 56 Rating, Add</i>	234.80	
40 05 19 00-3151	EA	8" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,358.86	313.18
		<i>For Class 52 Rating, Deduct</i>	-97.28	
		<i>For Class 54 Rating, Add</i>	138.35	
		<i>For Class 55 Rating, Add</i>	208.60	
		<i>For Class 56 Rating, Add</i>	277.97	
40 05 19 00-3152	EA	8" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,509.65	316.55
		<i>For Class 52 Rating, Deduct</i>	-113.30	
		<i>For Class 54 Rating, Add</i>	160.26	
		<i>For Class 55 Rating, Add</i>	241.21	
		<i>For Class 56 Rating, Add</i>	321.13	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3153 EA 8" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,660.43	319.91
<i>For Class 52 Rating, Deduct</i>	-129.33	
<i>For Class 54 Rating, Add</i>	182.17	
<i>For Class 55 Rating, Add</i>	273.82	
<i>For Class 56 Rating, Add</i>	364.29	
40 05 19 00-3154 EA 8" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,811.23	323.28
<i>For Class 52 Rating, Deduct</i>	-145.36	
<i>For Class 54 Rating, Add</i>	204.09	
<i>For Class 55 Rating, Add</i>	306.43	
<i>For Class 56 Rating, Add</i>	407.45	
40 05 19 00-3155 EA 8" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,962.02	326.65
<i>For Class 52 Rating, Deduct</i>	-161.38	
<i>For Class 54 Rating, Add</i>	226.00	
<i>For Class 55 Rating, Add</i>	339.04	
<i>For Class 56 Rating, Add</i>	450.61	
40 05 19 00-3156 EA 8" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,112.81	330.02
<i>For Class 52 Rating, Deduct</i>	-177.41	
<i>For Class 54 Rating, Add</i>	247.92	
<i>For Class 55 Rating, Add</i>	371.65	
<i>For Class 56 Rating, Add</i>	493.77	
40 05 19 00-3157 EA 8" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,263.59	333.38
<i>For Class 52 Rating, Deduct</i>	-193.43	
<i>For Class 54 Rating, Add</i>	269.83	
<i>For Class 55 Rating, Add</i>	404.26	
<i>For Class 56 Rating, Add</i>	536.93	
40 05 19 00-3158 EA 8" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,414.39	336.75
<i>For Class 52 Rating, Deduct</i>	-209.46	
<i>For Class 54 Rating, Add</i>	291.75	
<i>For Class 55 Rating, Add</i>	436.87	
<i>For Class 56 Rating, Add</i>	580.10	
40 05 19 00-3159 EA 8" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,565.18	340.12
<i>For Class 52 Rating, Deduct</i>	-225.48	
<i>For Class 54 Rating, Add</i>	313.66	
<i>For Class 55 Rating, Add</i>	469.48	
<i>For Class 56 Rating, Add</i>	623.26	
40 05 19 00-3160 EA 8" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,715.97	343.48
<i>For Class 52 Rating, Deduct</i>	-241.51	
<i>For Class 54 Rating, Add</i>	335.58	
<i>For Class 55 Rating, Add</i>	502.10	
<i>For Class 56 Rating, Add</i>	666.42	
40 05 19 00-3161 EA 8" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,866.75	346.85
<i>For Class 52 Rating, Deduct</i>	-257.53	
<i>For Class 54 Rating, Add</i>	357.49	
<i>For Class 55 Rating, Add</i>	534.70	
<i>For Class 56 Rating, Add</i>	709.58	
40 05 19 00-3162 EA 8" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,017.54	350.22
<i>For Class 52 Rating, Deduct</i>	-273.56	
<i>For Class 54 Rating, Add</i>	379.40	
<i>For Class 55 Rating, Add</i>	567.32	
<i>For Class 56 Rating, Add</i>	752.74	
40 05 19 00-3163 EA 8" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,168.34	353.59
<i>For Class 52 Rating, Deduct</i>	-289.59	
<i>For Class 54 Rating, Add</i>	401.32	
<i>For Class 55 Rating, Add</i>	599.93	
<i>For Class 56 Rating, Add</i>	795.90	
40 05 19 00-3164 EA 8" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,319.12	356.95
<i>For Class 52 Rating, Deduct</i>	-305.61	
<i>For Class 54 Rating, Add</i>	423.23	
<i>For Class 55 Rating, Add</i>	632.54	
<i>For Class 56 Rating, Add</i>	839.06	
40 05 19 00-3165 EA 8" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,469.91	360.32
<i>For Class 52 Rating, Deduct</i>	-321.64	
<i>For Class 54 Rating, Add</i>	445.15	
<i>For Class 55 Rating, Add</i>	665.15	
<i>For Class 56 Rating, Add</i>	882.22	
40 05 19 00-3166 EA 8" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,620.70	363.69
<i>For Class 52 Rating, Deduct</i>	-337.66	
<i>For Class 54 Rating, Add</i>	467.06	
<i>For Class 55 Rating, Add</i>	697.76	
<i>For Class 56 Rating, Add</i>	925.39	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3167	EA		8" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,771.49	367.05
			<i>For Class 52 Rating, Deduct</i>	-353.69	
			<i>For Class 54 Rating, Add</i>	488.98	
			<i>For Class 55 Rating, Add</i>	730.37	
			<i>For Class 56 Rating, Add</i>	968.55	
40 05 19 00-3168	EA		8" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,922.28	370.42
			<i>For Class 52 Rating, Deduct</i>	-369.77	
			<i>For Class 54 Rating, Add</i>	510.89	
			<i>For Class 55 Rating, Add</i>	762.98	
			<i>For Class 56 Rating, Add</i>	1,011.71	
40 05 19 00-3169	EA		8" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,073.07	373.79
			<i>For Class 52 Rating, Deduct</i>	-385.74	
			<i>For Class 54 Rating, Add</i>	532.80	
			<i>For Class 55 Rating, Add</i>	795.59	
			<i>For Class 56 Rating, Add</i>	1,054.87	
40 05 19 00-3170	EA		8" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,223.86	377.16
			<i>For Class 52 Rating, Deduct</i>	-401.77	
			<i>For Class 54 Rating, Add</i>	554.72	
			<i>For Class 55 Rating, Add</i>	828.20	
			<i>For Class 56 Rating, Add</i>	1,098.03	
40 05 19 00-3171	EA		8" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,374.65	380.52
			<i>For Class 52 Rating, Deduct</i>	-417.79	
			<i>For Class 54 Rating, Add</i>	576.63	
			<i>For Class 55 Rating, Add</i>	860.81	
			<i>For Class 56 Rating, Add</i>	1,141.20	
40 05 19 00-3172	EA		8" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,525.44	383.89
			<i>For Class 52 Rating, Deduct</i>	-433.82	
			<i>For Class 54 Rating, Add</i>	598.55	
			<i>For Class 55 Rating, Add</i>	893.42	
			<i>For Class 56 Rating, Add</i>	1,184.35	
40 05 19 00-3173	EA		8" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,676.23	387.27
			<i>For Class 52 Rating, Deduct</i>	-449.84	
			<i>For Class 54 Rating, Add</i>	620.46	
			<i>For Class 55 Rating, Add</i>	926.03	
			<i>For Class 56 Rating, Add</i>	1,227.52	
40 05 19 00-3174	EA		8" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,827.02	390.63
			<i>For Class 52 Rating, Deduct</i>	-465.87	
			<i>For Class 54 Rating, Add</i>	642.38	
			<i>For Class 55 Rating, Add</i>	958.65	
			<i>For Class 56 Rating, Add</i>	1,270.68	
40 05 19 00-3175	EA		8" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,977.81	394.00
			<i>For Class 52 Rating, Deduct</i>	-481.89	
			<i>For Class 54 Rating, Add</i>	664.29	
			<i>For Class 55 Rating, Add</i>	991.26	
			<i>For Class 56 Rating, Add</i>	1,313.84	
40 05 19 00-3176	EA		8" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,128.59	397.36
			<i>For Class 52 Rating, Deduct</i>	-497.92	
			<i>For Class 54 Rating, Add</i>	686.20	
			<i>For Class 55 Rating, Add</i>	1,023.87	
			<i>For Class 56 Rating, Add</i>	1,357.00	
40 05 19 00-3177	EA		8" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,279.39	400.74
			<i>For Class 52 Rating, Deduct</i>	-513.94	
			<i>For Class 54 Rating, Add</i>	708.12	
			<i>For Class 55 Rating, Add</i>	1,056.48	
			<i>For Class 56 Rating, Add</i>	1,400.16	
40 05 19 00-3178	EA		8" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,430.18	404.09
			<i>For Class 52 Rating, Deduct</i>	-529.97	
			<i>For Class 54 Rating, Add</i>	730.03	
			<i>For Class 55 Rating, Add</i>	1,089.09	
			<i>For Class 56 Rating, Add</i>	1,443.33	
40 05 19 00-3179	EA		8" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,580.97	407.47
			<i>For Class 52 Rating, Deduct</i>	-546.00	
			<i>For Class 54 Rating, Add</i>	751.95	
			<i>For Class 55 Rating, Add</i>	1,121.70	
			<i>For Class 56 Rating, Add</i>	1,486.49	
40 05 19 00-3180	EA		8" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,731.75	410.83
			<i>For Class 52 Rating, Deduct</i>	-562.02	
			<i>For Class 54 Rating, Add</i>	773.86	
			<i>For Class 55 Rating, Add</i>	1,154.31	
			<i>For Class 56 Rating, Add</i>	1,529.65	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3181 EA 8" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,882.54	414.21
<i>For Class 52 Rating, Deduct</i>	-578.05	
<i>For Class 54 Rating, Add</i>	795.78	
<i>For Class 55 Rating, Add</i>	1,186.92	
<i>For Class 56 Rating, Add</i>	1,572.81	
40 05 19 00-3182 EA 8" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,033.34	417.56
<i>For Class 52 Rating, Deduct</i>	-594.07	
<i>For Class 54 Rating, Add</i>	817.69	
<i>For Class 55 Rating, Add</i>	1,219.53	
<i>For Class 56 Rating, Add</i>	1,615.97	
40 05 19 00-3183 EA 8" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,184.13	420.94
<i>For Class 52 Rating, Deduct</i>	-610.10	
<i>For Class 54 Rating, Add</i>	839.61	
<i>For Class 55 Rating, Add</i>	1,252.14	
<i>For Class 56 Rating, Add</i>	1,659.13	
40 05 19 00-3184 EA 8" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,334.91	424.30
<i>For Class 52 Rating, Deduct</i>	-626.12	
<i>For Class 54 Rating, Add</i>	861.52	
<i>For Class 55 Rating, Add</i>	1,284.75	
<i>For Class 56 Rating, Add</i>	1,702.29	
40 05 19 00-3185 EA 8" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,485.70	427.67
<i>For Class 52 Rating, Deduct</i>	-642.15	
<i>For Class 54 Rating, Add</i>	883.43	
<i>For Class 55 Rating, Add</i>	1,317.36	
<i>For Class 56 Rating, Add</i>	1,745.45	
40 05 19 00-3186 EA 8" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,636.50	431.03
<i>For Class 52 Rating, Deduct</i>	-658.18	
<i>For Class 54 Rating, Add</i>	905.35	
<i>For Class 55 Rating, Add</i>	1,349.97	
<i>For Class 56 Rating, Add</i>	1,788.62	
40 05 19 00-3187 EA 8" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,787.29	434.41
<i>For Class 52 Rating, Deduct</i>	-674.20	
<i>For Class 54 Rating, Add</i>	927.26	
<i>For Class 55 Rating, Add</i>	1,382.59	
<i>For Class 56 Rating, Add</i>	1,831.78	
40 05 19 00-3188 EA 8" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,938.07	437.78
<i>For Class 52 Rating, Deduct</i>	-690.23	
<i>For Class 54 Rating, Add</i>	949.18	
<i>For Class 55 Rating, Add</i>	1,415.19	
<i>For Class 56 Rating, Add</i>	1,874.94	
<b>40 05 19 00-3189 10" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small>		
40 05 19 00-3190 EA 10" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,519.70	377.16
<i>For Class 52 Rating, Deduct</i>	-104.31	
<i>For Class 54 Rating, Add</i>	149.09	
<i>For Class 55 Rating, Add</i>	225.17	
<i>For Class 56 Rating, Add</i>	300.31	
40 05 19 00-3191 EA 10" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,713.93	380.52
<i>For Class 52 Rating, Deduct</i>	-125.11	
<i>For Class 54 Rating, Add</i>	177.53	
<i>For Class 55 Rating, Add</i>	267.47	
<i>For Class 56 Rating, Add</i>	356.28	
40 05 19 00-3192 EA 10" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,908.18	383.89
<i>For Class 52 Rating, Deduct</i>	-145.92	
<i>For Class 54 Rating, Add</i>	205.96	
<i>For Class 55 Rating, Add</i>	309.77	
<i>For Class 56 Rating, Add</i>	412.26	
40 05 19 00-3193 EA 10" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,102.42	387.27
<i>For Class 52 Rating, Deduct</i>	-166.72	
<i>For Class 54 Rating, Add</i>	234.39	
<i>For Class 55 Rating, Add</i>	352.07	
<i>For Class 56 Rating, Add</i>	468.24	
40 05 19 00-3194 EA 10" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,296.66	390.63
<i>For Class 52 Rating, Deduct</i>	-187.53	
<i>For Class 54 Rating, Add</i>	262.82	
<i>For Class 55 Rating, Add</i>	394.38	
<i>For Class 56 Rating, Add</i>	524.22	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3195	EA		10" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,490.90	394.00
			<i>For Class 52 Rating, Deduct</i>	-208.33	
			<i>For Class 54 Rating, Add</i>	291.25	
			<i>For Class 55 Rating, Add</i>	436.68	
			<i>For Class 56 Rating, Add</i>	580.20	
40 05 19 00-3196	EA		10" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,685.13	397.36
			<i>For Class 52 Rating, Deduct</i>	-229.14	
			<i>For Class 54 Rating, Add</i>	319.69	
			<i>For Class 55 Rating, Add</i>	478.97	
			<i>For Class 56 Rating, Add</i>	636.18	
40 05 19 00-3197	EA		10" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,879.38	400.74
			<i>For Class 52 Rating, Deduct</i>	-249.94	
			<i>For Class 54 Rating, Add</i>	348.12	
			<i>For Class 55 Rating, Add</i>	521.27	
			<i>For Class 56 Rating, Add</i>	692.16	
40 05 19 00-3198	EA		10" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,073.62	404.09
			<i>For Class 52 Rating, Deduct</i>	-270.75	
			<i>For Class 54 Rating, Add</i>	376.55	
			<i>For Class 55 Rating, Add</i>	563.58	
			<i>For Class 56 Rating, Add</i>	748.14	
40 05 19 00-3199	EA		10" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,267.86	407.47
			<i>For Class 52 Rating, Deduct</i>	-291.55	
			<i>For Class 54 Rating, Add</i>	404.98	
			<i>For Class 55 Rating, Add</i>	605.88	
			<i>For Class 56 Rating, Add</i>	804.12	
40 05 19 00-3200	EA		10" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,462.10	410.83
			<i>For Class 52 Rating, Deduct</i>	-312.36	
			<i>For Class 54 Rating, Add</i>	433.41	
			<i>For Class 55 Rating, Add</i>	648.18	
			<i>For Class 56 Rating, Add</i>	860.10	
40 05 19 00-3201	EA		10" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,656.34	414.21
			<i>For Class 52 Rating, Deduct</i>	-333.16	
			<i>For Class 54 Rating, Add</i>	461.85	
			<i>For Class 55 Rating, Add</i>	690.48	
			<i>For Class 56 Rating, Add</i>	916.08	
40 05 19 00-3202	EA		10" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,850.58	417.56
			<i>For Class 52 Rating, Deduct</i>	-353.97	
			<i>For Class 54 Rating, Add</i>	490.28	
			<i>For Class 55 Rating, Add</i>	732.78	
			<i>For Class 56 Rating, Add</i>	972.06	
40 05 19 00-3203	EA		10" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,044.82	420.94
			<i>For Class 52 Rating, Deduct</i>	-374.77	
			<i>For Class 54 Rating, Add</i>	518.71	
			<i>For Class 55 Rating, Add</i>	775.08	
			<i>For Class 56 Rating, Add</i>	1,028.04	
40 05 19 00-3204	EA		10" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,239.06	424.30
			<i>For Class 52 Rating, Deduct</i>	-395.58	
			<i>For Class 54 Rating, Add</i>	547.14	
			<i>For Class 55 Rating, Add</i>	817.38	
			<i>For Class 56 Rating, Add</i>	1,084.02	
40 05 19 00-3205	EA		10" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,433.30	427.67
			<i>For Class 52 Rating, Deduct</i>	-416.39	
			<i>For Class 54 Rating, Add</i>	575.57	
			<i>For Class 55 Rating, Add</i>	859.68	
			<i>For Class 56 Rating, Add</i>	1,140.00	
40 05 19 00-3206	EA		10" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,627.55	431.03
			<i>For Class 52 Rating, Deduct</i>	-437.19	
			<i>For Class 54 Rating, Add</i>	604.01	
			<i>For Class 55 Rating, Add</i>	901.98	
			<i>For Class 56 Rating, Add</i>	1,195.98	
40 05 19 00-3207	EA		10" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,821.78	434.41
			<i>For Class 52 Rating, Deduct</i>	-457.99	
			<i>For Class 54 Rating, Add</i>	632.44	
			<i>For Class 55 Rating, Add</i>	944.28	
			<i>For Class 56 Rating, Add</i>	1,251.95	
40 05 19 00-3208	EA		10" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,016.02	437.78
			<i>For Class 52 Rating, Deduct</i>	-478.80	
			<i>For Class 54 Rating, Add</i>	660.87	
			<i>For Class 55 Rating, Add</i>	986.58	
			<i>For Class 56 Rating, Add</i>	1,307.93	



<b>Process Interconnections</b> <span style="float: right;"><b>40</b></span>
<b>Common Work Results For Process Interconnections</b> <span style="float: right;"><b>40 05</b></span>
Ductile Iron Process Pipe 40 05 19 <span style="float: right;"><b>40</b></span>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3209 EA 10" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,210.26	441.14
<i>For Class 52 Rating, Deduct</i>	-499.61	
<i>For Class 54 Rating, Add</i>	689.30	
<i>For Class 55 Rating, Add</i>	1,028.88	
<i>For Class 56 Rating, Add</i>	1,363.91	
40 05 19 00-3210 EA 10" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,404.50	444.50
<i>For Class 52 Rating, Deduct</i>	-520.41	
<i>For Class 54 Rating, Add</i>	717.73	
<i>For Class 55 Rating, Add</i>	1,071.18	
<i>For Class 56 Rating, Add</i>	1,419.89	
40 05 19 00-3211 EA 10" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,598.75	447.88
<i>For Class 52 Rating, Deduct</i>	-541.22	
<i>For Class 54 Rating, Add</i>	746.17	
<i>For Class 55 Rating, Add</i>	1,113.48	
<i>For Class 56 Rating, Add</i>	1,475.87	
40 05 19 00-3212 EA 10" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,792.98	451.23
<i>For Class 52 Rating, Deduct</i>	-562.02	
<i>For Class 54 Rating, Add</i>	774.60	
<i>For Class 55 Rating, Add</i>	1,155.78	
<i>For Class 56 Rating, Add</i>	1,531.85	
40 05 19 00-3213 EA 10" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,987.22	454.61
<i>For Class 52 Rating, Deduct</i>	-582.83	
<i>For Class 54 Rating, Add</i>	803.03	
<i>For Class 55 Rating, Add</i>	1,198.08	
<i>For Class 56 Rating, Add</i>	1,587.83	
40 05 19 00-3214 EA 10" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,181.46	457.98
<i>For Class 52 Rating, Deduct</i>	-603.63	
<i>For Class 54 Rating, Add</i>	831.46	
<i>For Class 55 Rating, Add</i>	1,240.38	
<i>For Class 56 Rating, Add</i>	1,643.81	
40 05 19 00-3215 EA 10" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,375.70	461.35
<i>For Class 52 Rating, Deduct</i>	-624.44	
<i>For Class 54 Rating, Add</i>	859.89	
<i>For Class 55 Rating, Add</i>	1,282.68	
<i>For Class 56 Rating, Add</i>	1,699.79	
40 05 19 00-3216 EA 10" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,569.95	464.71
<i>For Class 52 Rating, Deduct</i>	-645.24	
<i>For Class 54 Rating, Add</i>	888.33	
<i>For Class 55 Rating, Add</i>	1,324.98	
<i>For Class 56 Rating, Add</i>	1,755.77	
40 05 19 00-3217 EA 10" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,764.18	468.08
<i>For Class 52 Rating, Deduct</i>	-666.05	
<i>For Class 54 Rating, Add</i>	916.76	
<i>For Class 55 Rating, Add</i>	1,367.28	
<i>For Class 56 Rating, Add</i>	1,811.75	
40 05 19 00-3218 EA 10" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,958.42	471.45
<i>For Class 52 Rating, Deduct</i>	-686.85	
<i>For Class 54 Rating, Add</i>	945.19	
<i>For Class 55 Rating, Add</i>	1,409.58	
<i>For Class 56 Rating, Add</i>	1,867.73	
40 05 19 00-3219 EA 10" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,152.66	474.82
<i>For Class 52 Rating, Deduct</i>	-707.66	
<i>For Class 54 Rating, Add</i>	973.62	
<i>For Class 55 Rating, Add</i>	1,451.88	
<i>For Class 56 Rating, Add</i>	1,923.71	
40 05 19 00-3220 EA 10" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,346.91	478.18
<i>For Class 52 Rating, Deduct</i>	-728.46	
<i>For Class 54 Rating, Add</i>	1,002.05	
<i>For Class 55 Rating, Add</i>	1,494.18	
<i>For Class 56 Rating, Add</i>	1,979.69	
40 05 19 00-3221 EA 10" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,541.15	481.55
<i>For Class 52 Rating, Deduct</i>	-749.27	
<i>For Class 54 Rating, Add</i>	1,030.48	
<i>For Class 55 Rating, Add</i>	1,536.48	
<i>For Class 56 Rating, Add</i>	2,035.67	
40 05 19 00-3222 EA 10" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,735.38	484.92
<i>For Class 52 Rating, Deduct</i>	-770.07	
<i>For Class 54 Rating, Add</i>	1,058.92	
<i>For Class 55 Rating, Add</i>	1,578.78	
<i>For Class 56 Rating, Add</i>	2,091.64	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3223	EA		10" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,929.62	488.28
			<i>For Class 52 Rating, Deduct</i>	-790.88	
			<i>For Class 54 Rating, Add</i>	1,087.35	
			<i>For Class 55 Rating, Add</i>	1,621.08	
			<i>For Class 56 Rating, Add</i>	2,147.62	
40 05 19 00-3224	EA		10" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,123.86	491.65
			<i>For Class 52 Rating, Deduct</i>	-811.68	
			<i>For Class 54 Rating, Add</i>	1,115.78	
			<i>For Class 55 Rating, Add</i>	1,663.38	
			<i>For Class 56 Rating, Add</i>	2,203.60	
40 05 19 00-3225	EA		10" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,318.11	495.02
			<i>For Class 52 Rating, Deduct</i>	-832.49	
			<i>For Class 54 Rating, Add</i>	1,144.21	
			<i>For Class 55 Rating, Add</i>	1,705.68	
			<i>For Class 56 Rating, Add</i>	2,259.58	
40 05 19 00-3226	EA		10" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,512.35	498.39
			<i>For Class 52 Rating, Deduct</i>	-853.29	
			<i>For Class 54 Rating, Add</i>	1,172.64	
			<i>For Class 55 Rating, Add</i>	1,747.98	
			<i>For Class 56 Rating, Add</i>	2,315.56	
40 05 19 00-3227	EA		10" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,706.59	501.75
			<i>For Class 52 Rating, Deduct</i>	-874.10	
			<i>For Class 54 Rating, Add</i>	1,201.08	
			<i>For Class 55 Rating, Add</i>	1,790.28	
			<i>For Class 56 Rating, Add</i>	2,371.54	
40 05 19 00-3228	EA		10" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,900.82	505.12
			<i>For Class 52 Rating, Deduct</i>	-894.90	
			<i>For Class 54 Rating, Add</i>	1,229.51	
			<i>For Class 55 Rating, Add</i>	1,832.58	
			<i>For Class 56 Rating, Add</i>	2,427.52	
40 05 19 00-3229			<b>12" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small>		
40 05 19 00-3230	EA		12" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	1,966.71	471.45
			<i>For Class 52 Rating, Deduct</i>	-137.76	
			<i>For Class 54 Rating, Add</i>	196.43	
			<i>For Class 55 Rating, Add</i>	296.43	
			<i>For Class 56 Rating, Add</i>	395.17	
40 05 19 00-3231	EA		12" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,206.96	474.82
			<i>For Class 52 Rating, Deduct</i>	-163.63	
			<i>For Class 54 Rating, Add</i>	231.77	
			<i>For Class 55 Rating, Add</i>	348.99	
			<i>For Class 56 Rating, Add</i>	464.73	
40 05 19 00-3232	EA		12" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,447.21	478.18
			<i>For Class 52 Rating, Deduct</i>	-189.50	
			<i>For Class 54 Rating, Add</i>	267.10	
			<i>For Class 55 Rating, Add</i>	401.55	
			<i>For Class 56 Rating, Add</i>	534.28	
40 05 19 00-3233	EA		12" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,687.45	481.55
			<i>For Class 52 Rating, Deduct</i>	-215.36	
			<i>For Class 54 Rating, Add</i>	302.43	
			<i>For Class 55 Rating, Add</i>	454.11	
			<i>For Class 56 Rating, Add</i>	603.83	
40 05 19 00-3234	EA		12" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,927.70	484.92
			<i>For Class 52 Rating, Deduct</i>	-241.23	
			<i>For Class 54 Rating, Add</i>	337.76	
			<i>For Class 55 Rating, Add</i>	506.67	
			<i>For Class 56 Rating, Add</i>	673.38	
40 05 19 00-3235	EA		12" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,167.94	488.28
			<i>For Class 52 Rating, Deduct</i>	-267.09	
			<i>For Class 54 Rating, Add</i>	373.10	
			<i>For Class 55 Rating, Add</i>	559.23	
			<i>For Class 56 Rating, Add</i>	742.93	
40 05 19 00-3236	EA		12" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,408.19	491.65
			<i>For Class 52 Rating, Deduct</i>	-292.96	
			<i>For Class 54 Rating, Add</i>	408.43	
			<i>For Class 55 Rating, Add</i>	611.79	
			<i>For Class 56 Rating, Add</i>	812.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3237 EA 12" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	3,648.44	495.02
<i>For Class 52 Rating, Deduct</i>	-318.83	
<i>For Class 54 Rating, Add</i>	443.76	
<i>For Class 55 Rating, Add</i>	664.35	
<i>For Class 56 Rating, Add</i>	882.03	
40 05 19 00-3238 EA 12" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	3,888.69	498.39
<i>For Class 52 Rating, Deduct</i>	-344.69	
<i>For Class 54 Rating, Add</i>	479.10	
<i>For Class 55 Rating, Add</i>	716.91	
<i>For Class 56 Rating, Add</i>	951.58	
40 05 19 00-3239 EA 12" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	4,128.93	501.75
<i>For Class 52 Rating, Deduct</i>	-370.56	
<i>For Class 54 Rating, Add</i>	514.43	
<i>For Class 55 Rating, Add</i>	769.47	
<i>For Class 56 Rating, Add</i>	1,021.13	
40 05 19 00-3240 EA 12" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	4,369.18	505.12
<i>For Class 52 Rating, Deduct</i>	-396.42	
<i>For Class 54 Rating, Add</i>	549.76	
<i>For Class 55 Rating, Add</i>	822.03	
<i>For Class 56 Rating, Add</i>	1,090.69	
40 05 19 00-3241 EA 12" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	4,609.43	508.50
<i>For Class 52 Rating, Deduct</i>	-422.29	
<i>For Class 54 Rating, Add</i>	585.09	
<i>For Class 55 Rating, Add</i>	874.59	
<i>For Class 56 Rating, Add</i>	1,160.24	
40 05 19 00-3242 EA 12" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	4,849.69	511.85
<i>For Class 52 Rating, Deduct</i>	-448.16	
<i>For Class 54 Rating, Add</i>	620.43	
<i>For Class 55 Rating, Add</i>	927.15	
<i>For Class 56 Rating, Add</i>	1,229.79	
40 05 19 00-3243 EA 12" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,089.93	515.23
<i>For Class 52 Rating, Deduct</i>	-474.02	
<i>For Class 54 Rating, Add</i>	655.76	
<i>For Class 55 Rating, Add</i>	979.71	
<i>For Class 56 Rating, Add</i>	1,299.34	
40 05 19 00-3244 EA 12" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,330.18	518.59
<i>For Class 52 Rating, Deduct</i>	-499.89	
<i>For Class 54 Rating, Add</i>	691.09	
<i>For Class 55 Rating, Add</i>	1,032.27	
<i>For Class 56 Rating, Add</i>	1,368.89	
40 05 19 00-3245 EA 12" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,570.42	521.97
<i>For Class 52 Rating, Deduct</i>	-525.75	
<i>For Class 54 Rating, Add</i>	726.43	
<i>For Class 55 Rating, Add</i>	1,084.82	
<i>For Class 56 Rating, Add</i>	1,438.44	
40 05 19 00-3246 EA 12" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	5,810.68	525.32
<i>For Class 52 Rating, Deduct</i>	-551.62	
<i>For Class 54 Rating, Add</i>	761.76	
<i>For Class 55 Rating, Add</i>	1,137.39	
<i>For Class 56 Rating, Add</i>	1,508.00	
40 05 19 00-3247 EA 12" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,050.92	528.70
<i>For Class 52 Rating, Deduct</i>	-577.48	
<i>For Class 54 Rating, Add</i>	797.09	
<i>For Class 55 Rating, Add</i>	1,189.94	
<i>For Class 56 Rating, Add</i>	1,577.55	
40 05 19 00-3248 EA 12" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,291.16	532.06
<i>For Class 52 Rating, Deduct</i>	-603.35	
<i>For Class 54 Rating, Add</i>	832.42	
<i>For Class 55 Rating, Add</i>	1,242.50	
<i>For Class 56 Rating, Add</i>	1,647.10	
40 05 19 00-3249 EA 12" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,531.41	535.43
<i>For Class 52 Rating, Deduct</i>	-629.22	
<i>For Class 54 Rating, Add</i>	867.76	
<i>For Class 55 Rating, Add</i>	1,295.06	
<i>For Class 56 Rating, Add</i>	1,716.65	
40 05 19 00-3250 EA 12" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	6,771.65	538.79
<i>For Class 52 Rating, Deduct</i>	-655.08	
<i>For Class 54 Rating, Add</i>	903.09	
<i>For Class 55 Rating, Add</i>	1,347.62	
<i>For Class 56 Rating, Add</i>	1,786.20	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3251	EA		12" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,011.91	542.17
			<i>For Class 52 Rating, Deduct</i>	-680.95	
			<i>For Class 54 Rating, Add</i>	938.42	
			<i>For Class 55 Rating, Add</i>	1,400.18	
			<i>For Class 56 Rating, Add</i>	1,855.75	
40 05 19 00-3252	EA		12" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,252.15	545.53
			<i>For Class 52 Rating, Deduct</i>	-706.81	
			<i>For Class 54 Rating, Add</i>	973.76	
			<i>For Class 55 Rating, Add</i>	1,452.74	
			<i>For Class 56 Rating, Add</i>	1,925.30	
40 05 19 00-3253	EA		12" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,492.40	548.90
			<i>For Class 52 Rating, Deduct</i>	-732.68	
			<i>For Class 54 Rating, Add</i>	1,009.09	
			<i>For Class 55 Rating, Add</i>	1,505.30	
			<i>For Class 56 Rating, Add</i>	1,994.86	
40 05 19 00-3254	EA		12" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,732.64	552.26
			<i>For Class 52 Rating, Deduct</i>	-758.55	
			<i>For Class 54 Rating, Add</i>	1,044.42	
			<i>For Class 55 Rating, Add</i>	1,557.86	
			<i>For Class 56 Rating, Add</i>	2,064.41	
40 05 19 00-3255	EA		12" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,972.89	555.64
			<i>For Class 52 Rating, Deduct</i>	-784.41	
			<i>For Class 54 Rating, Add</i>	1,079.76	
			<i>For Class 55 Rating, Add</i>	1,610.42	
			<i>For Class 56 Rating, Add</i>	2,133.96	
40 05 19 00-3256	EA		12" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,213.14	559.01
			<i>For Class 52 Rating, Deduct</i>	-810.28	
			<i>For Class 54 Rating, Add</i>	1,115.09	
			<i>For Class 55 Rating, Add</i>	1,662.98	
			<i>For Class 56 Rating, Add</i>	2,203.51	
40 05 19 00-3257	EA		12" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,453.39	562.37
			<i>For Class 52 Rating, Deduct</i>	-836.14	
			<i>For Class 54 Rating, Add</i>	1,150.42	
			<i>For Class 55 Rating, Add</i>	1,715.54	
			<i>For Class 56 Rating, Add</i>	2,273.06	
40 05 19 00-3258	EA		12" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,693.63	565.73
			<i>For Class 52 Rating, Deduct</i>	-862.01	
			<i>For Class 54 Rating, Add</i>	1,185.75	
			<i>For Class 55 Rating, Add</i>	1,768.10	
			<i>For Class 56 Rating, Add</i>	2,342.61	
40 05 19 00-3259	EA		12" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,933.88	569.11
			<i>For Class 52 Rating, Deduct</i>	-887.88	
			<i>For Class 54 Rating, Add</i>	1,221.09	
			<i>For Class 55 Rating, Add</i>	1,820.66	
			<i>For Class 56 Rating, Add</i>	2,412.16	
40 05 19 00-3260	EA		12" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,174.13	572.46
			<i>For Class 52 Rating, Deduct</i>	-913.74	
			<i>For Class 54 Rating, Add</i>	1,256.42	
			<i>For Class 55 Rating, Add</i>	1,873.22	
			<i>For Class 56 Rating, Add</i>	2,481.71	
40 05 19 00-3261	EA		12" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,414.37	575.84
			<i>For Class 52 Rating, Deduct</i>	-939.61	
			<i>For Class 54 Rating, Add</i>	1,291.75	
			<i>For Class 55 Rating, Add</i>	1,925.78	
			<i>For Class 56 Rating, Add</i>	2,551.26	
40 05 19 00-3262	EA		12" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,654.62	579.21
			<i>For Class 52 Rating, Deduct</i>	-965.47	
			<i>For Class 54 Rating, Add</i>	1,327.09	
			<i>For Class 55 Rating, Add</i>	1,978.34	
			<i>For Class 56 Rating, Add</i>	2,620.82	
40 05 19 00-3263	EA		12" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,894.86	582.58
			<i>For Class 52 Rating, Deduct</i>	-991.34	
			<i>For Class 54 Rating, Add</i>	1,362.42	
			<i>For Class 55 Rating, Add</i>	2,030.90	
			<i>For Class 56 Rating, Add</i>	2,690.37	
40 05 19 00-3264	EA		12" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,135.11	585.94
			<i>For Class 52 Rating, Deduct</i>	-1,017.21	
			<i>For Class 54 Rating, Add</i>	1,397.75	
			<i>For Class 55 Rating, Add</i>	2,083.46	
			<i>For Class 56 Rating, Add</i>	2,759.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3265 EA 12" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,375.36	589.31
<i>For Class 52 Rating, Deduct</i>	-1,043.07	
<i>For Class 54 Rating, Add</i>	1,433.08	
<i>For Class 55 Rating, Add</i>	2,136.02	
<i>For Class 56 Rating, Add</i>	2,829.47	
40 05 19 00-3266 EA 12" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,615.61	592.68
<i>For Class 52 Rating, Deduct</i>	-1,068.94	
<i>For Class 54 Rating, Add</i>	1,468.42	
<i>For Class 55 Rating, Add</i>	2,188.58	
<i>For Class 56 Rating, Add</i>	2,899.02	
40 05 19 00-3267 EA 12" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,855.85	596.04
<i>For Class 52 Rating, Deduct</i>	-1,094.80	
<i>For Class 54 Rating, Add</i>	1,503.75	
<i>For Class 55 Rating, Add</i>	2,241.14	
<i>For Class 56 Rating, Add</i>	2,968.57	
40 05 19 00-3268 EA 12" Flanged x Plain End (FxPE), 20'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,096.10	599.41
<i>For Class 52 Rating, Deduct</i>	-1,120.67	
<i>For Class 54 Rating, Add</i>	1,539.08	
<i>For Class 55 Rating, Add</i>	2,293.70	
<i>For Class 56 Rating, Add</i>	3,038.13	
 <b>40 05 19 00-3269 14" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small></b>		
40 05 19 00-3270 EA 14" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,623.32	565.73
<i>For Class 52 Rating, Deduct</i>	-194.28	
<i>For Class 54 Rating, Add</i>	275.21	
<i>For Class 55 Rating, Add</i>	414.42	
<i>For Class 56 Rating, Add</i>	551.87	
40 05 19 00-3271 EA 14" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	2,914.68	569.11
<i>For Class 52 Rating, Deduct</i>	-225.76	
<i>For Class 54 Rating, Add</i>	318.21	
<i>For Class 55 Rating, Add</i>	478.38	
<i>For Class 56 Rating, Add</i>	636.50	
40 05 19 00-3272 EA 14" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,206.06	572.46
<i>For Class 52 Rating, Deduct</i>	-257.25	
<i>For Class 54 Rating, Add</i>	361.21	
<i>For Class 55 Rating, Add</i>	542.34	
<i>For Class 56 Rating, Add</i>	721.13	
40 05 19 00-3273 EA 14" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,497.42	575.84
<i>For Class 52 Rating, Deduct</i>	-288.74	
<i>For Class 54 Rating, Add</i>	404.21	
<i>For Class 55 Rating, Add</i>	606.30	
<i>For Class 56 Rating, Add</i>	805.76	
40 05 19 00-3274 EA 14" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,788.78	579.21
<i>For Class 52 Rating, Deduct</i>	-320.23	
<i>For Class 54 Rating, Add</i>	447.21	
<i>For Class 55 Rating, Add</i>	670.26	
<i>For Class 56 Rating, Add</i>	890.39	
40 05 19 00-3275 EA 14" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,080.15	582.58
<i>For Class 52 Rating, Deduct</i>	-351.72	
<i>For Class 54 Rating, Add</i>	490.21	
<i>For Class 55 Rating, Add</i>	734.22	
<i>For Class 56 Rating, Add</i>	975.03	
40 05 19 00-3276 EA 14" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,371.51	585.94
<i>For Class 52 Rating, Deduct</i>	-383.21	
<i>For Class 54 Rating, Add</i>	533.21	
<i>For Class 55 Rating, Add</i>	798.18	
<i>For Class 56 Rating, Add</i>	1,059.66	
40 05 19 00-3277 EA 14" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,662.88	589.31
<i>For Class 52 Rating, Deduct</i>	-414.70	
<i>For Class 54 Rating, Add</i>	576.21	
<i>For Class 55 Rating, Add</i>	862.14	
<i>For Class 56 Rating, Add</i>	1,144.29	
40 05 19 00-3278 EA 14" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,954.24	592.68
<i>For Class 52 Rating, Deduct</i>	-446.19	
<i>For Class 54 Rating, Add</i>	619.21	
<i>For Class 55 Rating, Add</i>	926.09	
<i>For Class 56 Rating, Add</i>	1,228.92	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3279	EA		14" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,245.61	596.04
			<i>For Class 52 Rating, Deduct</i>	-477.68	
			<i>For Class 54 Rating, Add</i>	662.21	
			<i>For Class 55 Rating, Add</i>	990.05	
			<i>For Class 56 Rating, Add</i>	1,313.55	
40 05 19 00-3280	EA		14" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,536.97	599.41
			<i>For Class 52 Rating, Deduct</i>	-509.16	
			<i>For Class 54 Rating, Add</i>	705.21	
			<i>For Class 55 Rating, Add</i>	1,054.01	
			<i>For Class 56 Rating, Add</i>	1,398.18	
40 05 19 00-3281	EA		14" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,828.33	602.78
			<i>For Class 52 Rating, Deduct</i>	-540.65	
			<i>For Class 54 Rating, Add</i>	748.21	
			<i>For Class 55 Rating, Add</i>	1,117.97	
			<i>For Class 56 Rating, Add</i>	1,482.81	
40 05 19 00-3282	EA		14" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,119.71	606.15
			<i>For Class 52 Rating, Deduct</i>	-572.14	
			<i>For Class 54 Rating, Add</i>	791.22	
			<i>For Class 55 Rating, Add</i>	1,181.93	
			<i>For Class 56 Rating, Add</i>	1,567.45	
40 05 19 00-3283	EA		14" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,411.07	609.51
			<i>For Class 52 Rating, Deduct</i>	-603.63	
			<i>For Class 54 Rating, Add</i>	834.22	
			<i>For Class 55 Rating, Add</i>	1,245.89	
			<i>For Class 56 Rating, Add</i>	1,652.08	
40 05 19 00-3284	EA		14" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,702.43	612.88
			<i>For Class 52 Rating, Deduct</i>	-635.12	
			<i>For Class 54 Rating, Add</i>	877.22	
			<i>For Class 55 Rating, Add</i>	1,309.85	
			<i>For Class 56 Rating, Add</i>	1,736.71	
40 05 19 00-3285	EA		14" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,993.80	616.25
			<i>For Class 52 Rating, Deduct</i>	-666.61	
			<i>For Class 54 Rating, Add</i>	920.22	
			<i>For Class 55 Rating, Add</i>	1,373.81	
			<i>For Class 56 Rating, Add</i>	1,821.34	
40 05 19 00-3286	EA		14" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,285.17	619.61
			<i>For Class 52 Rating, Deduct</i>	-698.10	
			<i>For Class 54 Rating, Add</i>	963.22	
			<i>For Class 55 Rating, Add</i>	1,437.77	
			<i>For Class 56 Rating, Add</i>	1,905.97	
40 05 19 00-3287	EA		14" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,576.53	622.98
			<i>For Class 52 Rating, Deduct</i>	-729.59	
			<i>For Class 54 Rating, Add</i>	1,006.22	
			<i>For Class 55 Rating, Add</i>	1,501.73	
			<i>For Class 56 Rating, Add</i>	1,990.60	
40 05 19 00-3288	EA		14" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,867.90	626.35
			<i>For Class 52 Rating, Deduct</i>	-761.08	
			<i>For Class 54 Rating, Add</i>	1,049.22	
			<i>For Class 55 Rating, Add</i>	1,565.69	
			<i>For Class 56 Rating, Add</i>	2,075.23	
40 05 19 00-3289	EA		14" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,159.26	629.73
			<i>For Class 52 Rating, Deduct</i>	-792.57	
			<i>For Class 54 Rating, Add</i>	1,092.22	
			<i>For Class 55 Rating, Add</i>	1,629.65	
			<i>For Class 56 Rating, Add</i>	2,159.86	
40 05 19 00-3290	EA		14" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,450.62	633.08
			<i>For Class 52 Rating, Deduct</i>	-824.05	
			<i>For Class 54 Rating, Add</i>	1,135.22	
			<i>For Class 55 Rating, Add</i>	1,693.60	
			<i>For Class 56 Rating, Add</i>	2,244.49	
40 05 19 00-3291	EA		14" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,741.99	636.45
			<i>For Class 52 Rating, Deduct</i>	-855.54	
			<i>For Class 54 Rating, Add</i>	1,178.22	
			<i>For Class 55 Rating, Add</i>	1,757.56	
			<i>For Class 56 Rating, Add</i>	2,329.13	
40 05 19 00-3292	EA		14" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,033.36	639.82
			<i>For Class 52 Rating, Deduct</i>	-887.03	
			<i>For Class 54 Rating, Add</i>	1,221.22	
			<i>For Class 55 Rating, Add</i>	1,821.52	
			<i>For Class 56 Rating, Add</i>	2,413.76	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3293 EA 14" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	9,324.72	643.20
<i>For Class 52 Rating, Deduct</i>	-918.52	
<i>For Class 54 Rating, Add</i>	1,264.22	
<i>For Class 55 Rating, Add</i>	1,885.48	
<i>For Class 56 Rating, Add</i>	2,498.39	
40 05 19 00-3294 EA 14" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	9,616.08	646.55
<i>For Class 52 Rating, Deduct</i>	-950.01	
<i>For Class 54 Rating, Add</i>	1,307.22	
<i>For Class 55 Rating, Add</i>	1,949.44	
<i>For Class 56 Rating, Add</i>	2,583.02	
40 05 19 00-3295 EA 14" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	9,907.46	649.93
<i>For Class 52 Rating, Deduct</i>	-981.50	
<i>For Class 54 Rating, Add</i>	1,350.22	
<i>For Class 55 Rating, Add</i>	2,013.40	
<i>For Class 56 Rating, Add</i>	2,667.65	
40 05 19 00-3296 EA 14" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	10,198.82	653.29
<i>For Class 52 Rating, Deduct</i>	-1,012.99	
<i>For Class 54 Rating, Add</i>	1,393.23	
<i>For Class 55 Rating, Add</i>	2,077.36	
<i>For Class 56 Rating, Add</i>	2,752.28	
40 05 19 00-3297 EA 14" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	10,490.18	656.66
<i>For Class 52 Rating, Deduct</i>	-1,044.48	
<i>For Class 54 Rating, Add</i>	1,436.23	
<i>For Class 55 Rating, Add</i>	2,141.32	
<i>For Class 56 Rating, Add</i>	2,836.91	
40 05 19 00-3298 EA 14" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	10,781.55	660.02
<i>For Class 52 Rating, Deduct</i>	-1,075.97	
<i>For Class 54 Rating, Add</i>	1,479.23	
<i>For Class 55 Rating, Add</i>	2,205.28	
<i>For Class 56 Rating, Add</i>	2,921.55	
40 05 19 00-3299 EA 14" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	11,072.91	663.40
<i>For Class 52 Rating, Deduct</i>	-1,107.45	
<i>For Class 54 Rating, Add</i>	1,522.23	
<i>For Class 55 Rating, Add</i>	2,269.24	
<i>For Class 56 Rating, Add</i>	3,006.18	
40 05 19 00-3300 EA 14" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	11,364.28	666.76
<i>For Class 52 Rating, Deduct</i>	-1,138.94	
<i>For Class 54 Rating, Add</i>	1,565.23	
<i>For Class 55 Rating, Add</i>	2,333.19	
<i>For Class 56 Rating, Add</i>	3,090.81	
40 05 19 00-3301 EA 14" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	11,655.65	670.13
<i>For Class 52 Rating, Deduct</i>	-1,170.43	
<i>For Class 54 Rating, Add</i>	1,608.23	
<i>For Class 55 Rating, Add</i>	2,397.16	
<i>For Class 56 Rating, Add</i>	3,175.44	
40 05 19 00-3302 EA 14" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	11,947.01	673.49
<i>For Class 52 Rating, Deduct</i>	-1,201.92	
<i>For Class 54 Rating, Add</i>	1,651.23	
<i>For Class 55 Rating, Add</i>	2,461.11	
<i>For Class 56 Rating, Add</i>	3,260.07	
40 05 19 00-3303 EA 14" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	12,238.37	676.87
<i>For Class 52 Rating, Deduct</i>	-1,233.41	
<i>For Class 54 Rating, Add</i>	1,694.23	
<i>For Class 55 Rating, Add</i>	2,525.07	
<i>For Class 56 Rating, Add</i>	3,344.70	
40 05 19 00-3304 EA 14" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	12,529.73	680.22
<i>For Class 52 Rating, Deduct</i>	-1,264.90	
<i>For Class 54 Rating, Add</i>	1,737.23	
<i>For Class 55 Rating, Add</i>	2,589.03	
<i>For Class 56 Rating, Add</i>	3,429.33	
40 05 19 00-3305 EA 14" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	12,821.11	683.60
<i>For Class 52 Rating, Deduct</i>	-1,296.39	
<i>For Class 54 Rating, Add</i>	1,780.23	
<i>For Class 55 Rating, Add</i>	2,652.99	
<i>For Class 56 Rating, Add</i>	3,513.97	
40 05 19 00-3306 EA 14" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	13,112.47	686.96
<i>For Class 52 Rating, Deduct</i>	-1,327.88	
<i>For Class 54 Rating, Add</i>	1,823.23	
<i>For Class 55 Rating, Add</i>	2,716.95	
<i>For Class 56 Rating, Add</i>	3,598.60	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3307	EA		14" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,403.83	690.34
			<i>For Class 52 Rating, Deduct</i>	-1,359.37	
			<i>For Class 54 Rating, Add</i>	1,866.23	
			<i>For Class 55 Rating, Add</i>	2,780.91	
			<i>For Class 56 Rating, Add</i>	3,683.23	
<b>40 05 19 00-3308</b>			<b>16" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small>		
40 05 19 00-3309	EA		16" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,062.70	646.55
			<i>For Class 52 Rating, Deduct</i>	-229.14	
			<i>For Class 54 Rating, Add</i>	324.22	
			<i>For Class 55 Rating, Add</i>	488.04	
			<i>For Class 56 Rating, Add</i>	649.77	
40 05 19 00-3310	EA		16" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,400.08	649.93
			<i>For Class 52 Rating, Deduct</i>	-265.69	
			<i>For Class 54 Rating, Add</i>	374.12	
			<i>For Class 55 Rating, Add</i>	562.25	
			<i>For Class 56 Rating, Add</i>	747.98	
40 05 19 00-3311	EA		16" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,737.45	653.29
			<i>For Class 52 Rating, Deduct</i>	-302.24	
			<i>For Class 54 Rating, Add</i>	424.02	
			<i>For Class 55 Rating, Add</i>	636.47	
			<i>For Class 56 Rating, Add</i>	846.18	
40 05 19 00-3312	EA		16" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,074.82	656.66
			<i>For Class 52 Rating, Deduct</i>	-338.79	
			<i>For Class 54 Rating, Add</i>	473.92	
			<i>For Class 55 Rating, Add</i>	710.69	
			<i>For Class 56 Rating, Add</i>	944.38	
40 05 19 00-3313	EA		16" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,412.19	660.02
			<i>For Class 52 Rating, Deduct</i>	-375.34	
			<i>For Class 54 Rating, Add</i>	523.82	
			<i>For Class 55 Rating, Add</i>	784.91	
			<i>For Class 56 Rating, Add</i>	1,042.59	
40 05 19 00-3314	EA		16" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,749.56	663.40
			<i>For Class 52 Rating, Deduct</i>	-411.89	
			<i>For Class 54 Rating, Add</i>	573.72	
			<i>For Class 55 Rating, Add</i>	859.13	
			<i>For Class 56 Rating, Add</i>	1,140.79	
40 05 19 00-3315	EA		16" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,086.94	666.76
			<i>For Class 52 Rating, Deduct</i>	-448.44	
			<i>For Class 54 Rating, Add</i>	623.63	
			<i>For Class 55 Rating, Add</i>	933.35	
			<i>For Class 56 Rating, Add</i>	1,238.99	
40 05 19 00-3316	EA		16" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,424.31	670.13
			<i>For Class 52 Rating, Deduct</i>	-484.99	
			<i>For Class 54 Rating, Add</i>	673.53	
			<i>For Class 55 Rating, Add</i>	1,007.57	
			<i>For Class 56 Rating, Add</i>	1,337.20	
40 05 19 00-3317	EA		16" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,761.68	673.49
			<i>For Class 52 Rating, Deduct</i>	-521.54	
			<i>For Class 54 Rating, Add</i>	723.43	
			<i>For Class 55 Rating, Add</i>	1,081.79	
			<i>For Class 56 Rating, Add</i>	1,435.40	
40 05 19 00-3318	EA		16" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,099.05	676.87
			<i>For Class 52 Rating, Deduct</i>	-558.09	
			<i>For Class 54 Rating, Add</i>	773.33	
			<i>For Class 55 Rating, Add</i>	1,156.00	
			<i>For Class 56 Rating, Add</i>	1,533.60	
40 05 19 00-3319	EA		16" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,436.42	680.22
			<i>For Class 52 Rating, Deduct</i>	-594.63	
			<i>For Class 54 Rating, Add</i>	823.23	
			<i>For Class 55 Rating, Add</i>	1,230.22	
			<i>For Class 56 Rating, Add</i>	1,631.81	
40 05 19 00-3320	EA		16" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,773.80	683.60
			<i>For Class 52 Rating, Deduct</i>	-631.18	
			<i>For Class 54 Rating, Add</i>	873.14	
			<i>For Class 55 Rating, Add</i>	1,304.44	
			<i>For Class 56 Rating, Add</i>	1,730.01	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3321 EA 16" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,111.17	686.96
<i>For Class 52 Rating, Deduct</i>	-667.73	
<i>For Class 54 Rating, Add</i>	923.04	
<i>For Class 55 Rating, Add</i>	1,378.66	
<i>For Class 56 Rating, Add</i>	1,828.21	
40 05 19 00-3322 EA 16" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,448.54	690.34
<i>For Class 52 Rating, Deduct</i>	-704.28	
<i>For Class 54 Rating, Add</i>	972.94	
<i>For Class 55 Rating, Add</i>	1,452.88	
<i>For Class 56 Rating, Add</i>	1,926.42	
40 05 19 00-3323 EA 16" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	7,785.91	693.69
<i>For Class 52 Rating, Deduct</i>	-740.83	
<i>For Class 54 Rating, Add</i>	1,022.84	
<i>For Class 55 Rating, Add</i>	1,527.10	
<i>For Class 56 Rating, Add</i>	2,024.62	
40 05 19 00-3324 EA 16" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	8,123.29	697.07
<i>For Class 52 Rating, Deduct</i>	-777.38	
<i>For Class 54 Rating, Add</i>	1,072.74	
<i>For Class 55 Rating, Add</i>	1,601.32	
<i>For Class 56 Rating, Add</i>	2,122.82	
40 05 19 00-3325 EA 16" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	8,460.66	700.44
<i>For Class 52 Rating, Deduct</i>	-813.93	
<i>For Class 54 Rating, Add</i>	1,122.64	
<i>For Class 55 Rating, Add</i>	1,675.53	
<i>For Class 56 Rating, Add</i>	2,221.03	
40 05 19 00-3326 EA 16" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	8,798.03	703.80
<i>For Class 52 Rating, Deduct</i>	-850.48	
<i>For Class 54 Rating, Add</i>	1,172.55	
<i>For Class 55 Rating, Add</i>	1,749.75	
<i>For Class 56 Rating, Add</i>	2,319.23	
40 05 19 00-3327 EA 16" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	9,135.40	707.17
<i>For Class 52 Rating, Deduct</i>	-887.03	
<i>For Class 54 Rating, Add</i>	1,222.45	
<i>For Class 55 Rating, Add</i>	1,823.97	
<i>For Class 56 Rating, Add</i>	2,417.43	
40 05 19 00-3328 EA 16" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	9,472.77	710.54
<i>For Class 52 Rating, Deduct</i>	-923.58	
<i>For Class 54 Rating, Add</i>	1,272.35	
<i>For Class 55 Rating, Add</i>	1,898.19	
<i>For Class 56 Rating, Add</i>	2,515.64	
40 05 19 00-3329 EA 16" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	9,810.15	713.91
<i>For Class 52 Rating, Deduct</i>	-960.13	
<i>For Class 54 Rating, Add</i>	1,322.25	
<i>For Class 55 Rating, Add</i>	1,972.41	
<i>For Class 56 Rating, Add</i>	2,613.84	
40 05 19 00-3330 EA 16" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	10,147.52	717.27
<i>For Class 52 Rating, Deduct</i>	-996.68	
<i>For Class 54 Rating, Add</i>	1,372.15	
<i>For Class 55 Rating, Add</i>	2,046.63	
<i>For Class 56 Rating, Add</i>	2,712.04	
40 05 19 00-3331 EA 16" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	10,484.89	720.64
<i>For Class 52 Rating, Deduct</i>	-1,033.23	
<i>For Class 54 Rating, Add</i>	1,422.05	
<i>For Class 55 Rating, Add</i>	2,120.85	
<i>For Class 56 Rating, Add</i>	2,810.25	
40 05 19 00-3332 EA 16" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	10,822.26	724.01
<i>For Class 52 Rating, Deduct</i>	-1,069.78	
<i>For Class 54 Rating, Add</i>	1,471.96	
<i>For Class 55 Rating, Add</i>	2,195.06	
<i>For Class 56 Rating, Add</i>	2,908.45	
40 05 19 00-3333 EA 16" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	11,159.63	727.38
<i>For Class 52 Rating, Deduct</i>	-1,106.33	
<i>For Class 54 Rating, Add</i>	1,521.86	
<i>For Class 55 Rating, Add</i>	2,269.28	
<i>For Class 56 Rating, Add</i>	3,006.65	
40 05 19 00-3334 EA 16" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	11,497.00	730.74
<i>For Class 52 Rating, Deduct</i>	-1,142.88	
<i>For Class 54 Rating, Add</i>	1,571.76	
<i>For Class 55 Rating, Add</i>	2,343.50	
<i>For Class 56 Rating, Add</i>	3,104.85	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3335	EA		16" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,834.37	734.11
			<i>For Class 52 Rating, Deduct</i>	-1,179.43	
			<i>For Class 54 Rating, Add</i>	1,621.66	
			<i>For Class 55 Rating, Add</i>	2,417.72	
			<i>For Class 56 Rating, Add</i>	3,203.06	
40 05 19 00-3336	EA		16" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,171.74	737.48
			<i>For Class 52 Rating, Deduct</i>	-1,215.98	
			<i>For Class 54 Rating, Add</i>	1,671.56	
			<i>For Class 55 Rating, Add</i>	2,491.94	
			<i>For Class 56 Rating, Add</i>	3,301.26	
40 05 19 00-3337	EA		16" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,509.11	740.84
			<i>For Class 52 Rating, Deduct</i>	-1,252.53	
			<i>For Class 54 Rating, Add</i>	1,721.46	
			<i>For Class 55 Rating, Add</i>	2,566.16	
			<i>For Class 56 Rating, Add</i>	3,399.46	
40 05 19 00-3338	EA		16" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,846.49	744.21
			<i>For Class 52 Rating, Deduct</i>	-1,289.08	
			<i>For Class 54 Rating, Add</i>	1,771.36	
			<i>For Class 55 Rating, Add</i>	2,640.37	
			<i>For Class 56 Rating, Add</i>	3,497.67	
40 05 19 00-3339	EA		16" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,183.86	747.58
			<i>For Class 52 Rating, Deduct</i>	-1,325.63	
			<i>For Class 54 Rating, Add</i>	1,821.27	
			<i>For Class 55 Rating, Add</i>	2,714.59	
			<i>For Class 56 Rating, Add</i>	3,595.87	
40 05 19 00-3340	EA		16" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,521.23	750.96
			<i>For Class 52 Rating, Deduct</i>	-1,362.18	
			<i>For Class 54 Rating, Add</i>	1,871.17	
			<i>For Class 55 Rating, Add</i>	2,788.81	
			<i>For Class 56 Rating, Add</i>	3,694.07	
40 05 19 00-3341	EA		16" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,858.60	754.31
			<i>For Class 52 Rating, Deduct</i>	-1,398.73	
			<i>For Class 54 Rating, Add</i>	1,921.07	
			<i>For Class 55 Rating, Add</i>	2,863.03	
			<i>For Class 56 Rating, Add</i>	3,792.28	
40 05 19 00-3342	EA		16" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,195.97	757.68
			<i>For Class 52 Rating, Deduct</i>	-1,435.28	
			<i>For Class 54 Rating, Add</i>	1,970.97	
			<i>For Class 55 Rating, Add</i>	2,937.25	
			<i>For Class 56 Rating, Add</i>	3,890.48	
40 05 19 00-3343	EA		16" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,533.35	761.05
			<i>For Class 52 Rating, Deduct</i>	-1,471.83	
			<i>For Class 54 Rating, Add</i>	2,020.87	
			<i>For Class 55 Rating, Add</i>	3,011.47	
			<i>For Class 56 Rating, Add</i>	3,988.68	
40 05 19 00-3344	EA		16" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,870.72	764.41
			<i>For Class 52 Rating, Deduct</i>	-1,508.38	
			<i>For Class 54 Rating, Add</i>	2,070.78	
			<i>For Class 55 Rating, Add</i>	3,085.69	
			<i>For Class 56 Rating, Add</i>	4,086.89	
40 05 19 00-3345	EA		16" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,208.09	767.78
			<i>For Class 52 Rating, Deduct</i>	-1,544.93	
			<i>For Class 54 Rating, Add</i>	2,120.68	
			<i>For Class 55 Rating, Add</i>	3,159.91	
			<i>For Class 56 Rating, Add</i>	4,185.09	
40 05 19 00-3346	EA		16" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,545.46	771.16
			<i>For Class 52 Rating, Deduct</i>	-1,581.48	
			<i>For Class 54 Rating, Add</i>	2,170.58	
			<i>For Class 55 Rating, Add</i>	3,234.12	
			<i>For Class 56 Rating, Add</i>	4,283.29	
40 05 19 00-3347			<b>18" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small>		
40 05 19 00-3348	EA		18" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,545.03	728.73
			<i>For Class 52 Rating, Deduct</i>	-268.50	
			<i>For Class 54 Rating, Add</i>	379.38	
			<i>For Class 55 Rating, Add</i>	570.82	
			<i>For Class 56 Rating, Add</i>	759.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3349 EA 18" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	3,933.52	732.10
<i>For Class 52 Rating, Deduct</i>	-310.67	
<i>For Class 54 Rating, Add</i>	436.95	
<i>For Class 55 Rating, Add</i>	656.44	
<i>For Class 56 Rating, Add</i>	873.10	
40 05 19 00-3350 EA 18" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,322.01	735.46
<i>For Class 52 Rating, Deduct</i>	-352.84	
<i>For Class 54 Rating, Add</i>	494.52	
<i>For Class 55 Rating, Add</i>	742.06	
<i>For Class 56 Rating, Add</i>	986.38	
40 05 19 00-3351 EA 18" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,710.51	738.83
<i>For Class 52 Rating, Deduct</i>	-395.02	
<i>For Class 54 Rating, Add</i>	552.09	
<i>For Class 55 Rating, Add</i>	827.68	
<i>For Class 56 Rating, Add</i>	1,099.67	
40 05 19 00-3352 EA 18" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,099.00	742.20
<i>For Class 52 Rating, Deduct</i>	-437.19	
<i>For Class 54 Rating, Add</i>	609.66	
<i>For Class 55 Rating, Add</i>	913.29	
<i>For Class 56 Rating, Add</i>	1,212.95	
40 05 19 00-3353 EA 18" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,487.48	745.55
<i>For Class 52 Rating, Deduct</i>	-479.36	
<i>For Class 54 Rating, Add</i>	667.23	
<i>For Class 55 Rating, Add</i>	998.91	
<i>For Class 56 Rating, Add</i>	1,326.23	
40 05 19 00-3354 EA 18" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,875.97	748.93
<i>For Class 52 Rating, Deduct</i>	-521.54	
<i>For Class 54 Rating, Add</i>	724.80	
<i>For Class 55 Rating, Add</i>	1,084.53	
<i>For Class 56 Rating, Add</i>	1,439.51	
40 05 19 00-3355 EA 18" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,264.46	752.30
<i>For Class 52 Rating, Deduct</i>	-563.71	
<i>For Class 54 Rating, Add</i>	782.37	
<i>For Class 55 Rating, Add</i>	1,170.15	
<i>For Class 56 Rating, Add</i>	1,552.80	
40 05 19 00-3356 EA 18" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,652.96	755.67
<i>For Class 52 Rating, Deduct</i>	-605.88	
<i>For Class 54 Rating, Add</i>	839.94	
<i>For Class 55 Rating, Add</i>	1,255.77	
<i>For Class 56 Rating, Add</i>	1,666.08	
40 05 19 00-3357 EA 18" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,041.45	759.03
<i>For Class 52 Rating, Deduct</i>	-648.05	
<i>For Class 54 Rating, Add</i>	897.51	
<i>For Class 55 Rating, Add</i>	1,341.38	
<i>For Class 56 Rating, Add</i>	1,779.36	
40 05 19 00-3358 EA 18" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,429.93	762.40
<i>For Class 52 Rating, Deduct</i>	-690.23	
<i>For Class 54 Rating, Add</i>	955.08	
<i>For Class 55 Rating, Add</i>	1,427.00	
<i>For Class 56 Rating, Add</i>	1,892.65	
40 05 19 00-3359 EA 18" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,818.42	765.77
<i>For Class 52 Rating, Deduct</i>	-732.40	
<i>For Class 54 Rating, Add</i>	1,012.65	
<i>For Class 55 Rating, Add</i>	1,512.62	
<i>For Class 56 Rating, Add</i>	2,005.93	
40 05 19 00-3360 EA 18" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,206.92	769.13
<i>For Class 52 Rating, Deduct</i>	-774.57	
<i>For Class 54 Rating, Add</i>	1,070.22	
<i>For Class 55 Rating, Add</i>	1,598.24	
<i>For Class 56 Rating, Add</i>	2,119.21	
40 05 19 00-3361 EA 18" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,595.41	772.50
<i>For Class 52 Rating, Deduct</i>	-816.74	
<i>For Class 54 Rating, Add</i>	1,127.79	
<i>For Class 55 Rating, Add</i>	1,683.85	
<i>For Class 56 Rating, Add</i>	2,232.50	
40 05 19 00-3362 EA 18" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,983.90	775.87
<i>For Class 52 Rating, Deduct</i>	-858.92	
<i>For Class 54 Rating, Add</i>	1,185.36	
<i>For Class 55 Rating, Add</i>	1,769.47	
<i>For Class 56 Rating, Add</i>	2,345.78	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3363	EA		18" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,372.38	779.24
			<i>For Class 52 Rating, Deduct</i>	-901.09	
			<i>For Class 54 Rating, Add</i>	1,242.93	
			<i>For Class 55 Rating, Add</i>	1,855.09	
			<i>For Class 56 Rating, Add</i>	2,459.06	
40 05 19 00-3364	EA		18" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,760.87	782.60
			<i>For Class 52 Rating, Deduct</i>	-943.26	
			<i>For Class 54 Rating, Add</i>	1,300.50	
			<i>For Class 55 Rating, Add</i>	1,940.71	
			<i>For Class 56 Rating, Add</i>	2,572.34	
40 05 19 00-3365	EA		18" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,149.37	785.97
			<i>For Class 52 Rating, Deduct</i>	-985.44	
			<i>For Class 54 Rating, Add</i>	1,358.07	
			<i>For Class 55 Rating, Add</i>	2,026.33	
			<i>For Class 56 Rating, Add</i>	2,685.63	
40 05 19 00-3366	EA		18" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,537.86	789.35
			<i>For Class 52 Rating, Deduct</i>	-1,027.61	
			<i>For Class 54 Rating, Add</i>	1,415.64	
			<i>For Class 55 Rating, Add</i>	2,111.94	
			<i>For Class 56 Rating, Add</i>	2,798.91	
40 05 19 00-3367	EA		18" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,926.35	792.70
			<i>For Class 52 Rating, Deduct</i>	-1,069.78	
			<i>For Class 54 Rating, Add</i>	1,473.20	
			<i>For Class 55 Rating, Add</i>	2,197.56	
			<i>For Class 56 Rating, Add</i>	2,912.20	
40 05 19 00-3368	EA		18" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,314.83	796.07
			<i>For Class 52 Rating, Deduct</i>	-1,111.95	
			<i>For Class 54 Rating, Add</i>	1,530.77	
			<i>For Class 55 Rating, Add</i>	2,283.18	
			<i>For Class 56 Rating, Add</i>	3,025.48	
40 05 19 00-3369	EA		18" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,703.32	799.44
			<i>For Class 52 Rating, Deduct</i>	-1,154.13	
			<i>For Class 54 Rating, Add</i>	1,588.34	
			<i>For Class 55 Rating, Add</i>	2,368.80	
			<i>For Class 56 Rating, Add</i>	3,138.76	
40 05 19 00-3370	EA		18" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,091.82	802.82
			<i>For Class 52 Rating, Deduct</i>	-1,196.30	
			<i>For Class 54 Rating, Add</i>	1,645.91	
			<i>For Class 55 Rating, Add</i>	2,454.42	
			<i>For Class 56 Rating, Add</i>	3,252.04	
40 05 19 00-3371	EA		18" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,480.31	806.17
			<i>For Class 52 Rating, Deduct</i>	-1,238.47	
			<i>For Class 54 Rating, Add</i>	1,703.48	
			<i>For Class 55 Rating, Add</i>	2,540.03	
			<i>For Class 56 Rating, Add</i>	3,365.33	
40 05 19 00-3372	EA		18" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,868.80	809.55
			<i>For Class 52 Rating, Deduct</i>	-1,280.64	
			<i>For Class 54 Rating, Add</i>	1,761.05	
			<i>For Class 55 Rating, Add</i>	2,625.65	
			<i>For Class 56 Rating, Add</i>	3,478.61	
40 05 19 00-3373	EA		18" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,257.28	812.91
			<i>For Class 52 Rating, Deduct</i>	-1,322.82	
			<i>For Class 54 Rating, Add</i>	1,818.62	
			<i>For Class 55 Rating, Add</i>	2,711.27	
			<i>For Class 56 Rating, Add</i>	3,591.89	
40 05 19 00-3374	EA		18" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,645.78	816.29
			<i>For Class 52 Rating, Deduct</i>	-1,364.99	
			<i>For Class 54 Rating, Add</i>	1,876.19	
			<i>For Class 55 Rating, Add</i>	2,796.89	
			<i>For Class 56 Rating, Add</i>	3,705.18	
40 05 19 00-3375	EA		18" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,034.27	819.64
			<i>For Class 52 Rating, Deduct</i>	-1,407.16	
			<i>For Class 54 Rating, Add</i>	1,933.76	
			<i>For Class 55 Rating, Add</i>	2,882.51	
			<i>For Class 56 Rating, Add</i>	3,818.46	
40 05 19 00-3376	EA		18" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,422.76	823.02
			<i>For Class 52 Rating, Deduct</i>	-1,449.33	
			<i>For Class 54 Rating, Add</i>	1,991.33	
			<i>For Class 55 Rating, Add</i>	2,968.12	
			<i>For Class 56 Rating, Add</i>	3,931.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3377 EA 18" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,811.25	826.38
<i>For Class 52 Rating, Deduct</i>	-1,491.51	
<i>For Class 54 Rating, Add</i>	2,048.90	
<i>For Class 55 Rating, Add</i>	3,053.74	
<i>For Class 56 Rating, Add</i>	4,045.03	
40 05 19 00-3378 EA 18" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,199.73	829.75
<i>For Class 52 Rating, Deduct</i>	-1,533.68	
<i>For Class 54 Rating, Add</i>	2,106.47	
<i>For Class 55 Rating, Add</i>	3,139.36	
<i>For Class 56 Rating, Add</i>	4,158.31	
40 05 19 00-3379 EA 18" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,588.23	833.11
<i>For Class 52 Rating, Deduct</i>	-1,575.85	
<i>For Class 54 Rating, Add</i>	2,164.04	
<i>For Class 55 Rating, Add</i>	3,224.98	
<i>For Class 56 Rating, Add</i>	4,271.59	
40 05 19 00-3380 EA 18" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,976.72	836.49
<i>For Class 52 Rating, Deduct</i>	-1,618.03	
<i>For Class 54 Rating, Add</i>	2,221.61	
<i>For Class 55 Rating, Add</i>	3,310.60	
<i>For Class 56 Rating, Add</i>	4,384.88	
40 05 19 00-3381 EA 18" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,365.21	839.85
<i>For Class 52 Rating, Deduct</i>	-1,660.20	
<i>For Class 54 Rating, Add</i>	2,279.18	
<i>For Class 55 Rating, Add</i>	3,396.21	
<i>For Class 56 Rating, Add</i>	4,498.16	
40 05 19 00-3382 EA 18" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,753.70	843.22
<i>For Class 52 Rating, Deduct</i>	-1,702.37	
<i>For Class 54 Rating, Add</i>	2,336.75	
<i>For Class 55 Rating, Add</i>	3,481.83	
<i>For Class 56 Rating, Add</i>	4,611.44	
40 05 19 00-3383 EA 18" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,142.18	846.58
<i>For Class 52 Rating, Deduct</i>	-1,744.54	
<i>For Class 54 Rating, Add</i>	2,394.31	
<i>For Class 55 Rating, Add</i>	3,567.45	
<i>For Class 56 Rating, Add</i>	4,724.72	
40 05 19 00-3384 EA 18" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,530.68	849.96
<i>For Class 52 Rating, Deduct</i>	-1,786.72	
<i>For Class 54 Rating, Add</i>	2,451.88	
<i>For Class 55 Rating, Add</i>	3,653.07	
<i>For Class 56 Rating, Add</i>	4,838.01	
40 05 19 00-3385 EA 18" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,919.17	853.31
<i>For Class 52 Rating, Deduct</i>	-1,828.89	
<i>For Class 54 Rating, Add</i>	2,509.45	
<i>For Class 55 Rating, Add</i>	3,738.69	
<i>For Class 56 Rating, Add</i>	4,951.29	
<b>40 05 19 00-3386 20" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small>		
40 05 19 00-3387 EA 20" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,122.88	831.77
<i>For Class 52 Rating, Deduct</i>	-314.89	
<i>For Class 54 Rating, Add</i>	444.52	
<i>For Class 55 Rating, Add</i>	668.61	
<i>For Class 56 Rating, Add</i>	889.84	
40 05 19 00-3388 EA 20" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	4,565.04	835.15
<i>For Class 52 Rating, Deduct</i>	-362.97	
<i>For Class 54 Rating, Add</i>	510.14	
<i>For Class 55 Rating, Add</i>	766.20	
<i>For Class 56 Rating, Add</i>	1,018.96	
40 05 19 00-3389 EA 20" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,007.22	838.50
<i>For Class 52 Rating, Deduct</i>	-411.04	
<i>For Class 54 Rating, Add</i>	575.76	
<i>For Class 55 Rating, Add</i>	863.79	
<i>For Class 56 Rating, Add</i>	1,148.08	
40 05 19 00-3390 EA 20" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,449.38	841.87
<i>For Class 52 Rating, Deduct</i>	-459.12	
<i>For Class 54 Rating, Add</i>	641.38	
<i>For Class 55 Rating, Add</i>	961.38	
<i>For Class 56 Rating, Add</i>	1,277.20	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3391	EA		20" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,891.54	845.24
			<i>For Class 52 Rating, Deduct</i>	-507.20	
			<i>For Class 54 Rating, Add</i>	707.00	
			<i>For Class 55 Rating, Add</i>	1,058.96	
			<i>For Class 56 Rating, Add</i>	1,406.31	
40 05 19 00-3392	EA		20" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,333.71	848.60
			<i>For Class 52 Rating, Deduct</i>	-555.27	
			<i>For Class 54 Rating, Add</i>	772.62	
			<i>For Class 55 Rating, Add</i>	1,156.55	
			<i>For Class 56 Rating, Add</i>	1,535.43	
40 05 19 00-3393	EA		20" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,775.87	851.97
			<i>For Class 52 Rating, Deduct</i>	-603.35	
			<i>For Class 54 Rating, Add</i>	838.24	
			<i>For Class 55 Rating, Add</i>	1,254.14	
			<i>For Class 56 Rating, Add</i>	1,664.55	
40 05 19 00-3394	EA		20" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,218.05	855.35
			<i>For Class 52 Rating, Deduct</i>	-651.43	
			<i>For Class 54 Rating, Add</i>	903.86	
			<i>For Class 55 Rating, Add</i>	1,351.73	
			<i>For Class 56 Rating, Add</i>	1,793.67	
40 05 19 00-3395	EA		20" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,660.21	858.71
			<i>For Class 52 Rating, Deduct</i>	-699.50	
			<i>For Class 54 Rating, Add</i>	969.48	
			<i>For Class 55 Rating, Add</i>	1,449.31	
			<i>For Class 56 Rating, Add</i>	1,922.78	
40 05 19 00-3396	EA		20" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,102.37	862.07
			<i>For Class 52 Rating, Deduct</i>	-747.58	
			<i>For Class 54 Rating, Add</i>	1,035.10	
			<i>For Class 55 Rating, Add</i>	1,546.90	
			<i>For Class 56 Rating, Add</i>	2,051.90	
40 05 19 00-3397	EA		20" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,544.53	865.44
			<i>For Class 52 Rating, Deduct</i>	-795.66	
			<i>For Class 54 Rating, Add</i>	1,100.72	
			<i>For Class 55 Rating, Add</i>	1,644.49	
			<i>For Class 56 Rating, Add</i>	2,181.01	
40 05 19 00-3398	EA		20" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,986.70	868.82
			<i>For Class 52 Rating, Deduct</i>	-843.74	
			<i>For Class 54 Rating, Add</i>	1,166.34	
			<i>For Class 55 Rating, Add</i>	1,742.07	
			<i>For Class 56 Rating, Add</i>	2,310.13	
40 05 19 00-3399	EA		20" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,428.87	872.17
			<i>For Class 52 Rating, Deduct</i>	-891.81	
			<i>For Class 54 Rating, Add</i>	1,231.96	
			<i>For Class 55 Rating, Add</i>	1,839.66	
			<i>For Class 56 Rating, Add</i>	2,439.25	
40 05 19 00-3400	EA		20" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,871.03	875.54
			<i>For Class 52 Rating, Deduct</i>	-939.89	
			<i>For Class 54 Rating, Add</i>	1,297.59	
			<i>For Class 55 Rating, Add</i>	1,937.25	
			<i>For Class 56 Rating, Add</i>	2,568.37	
40 05 19 00-3401	EA		20" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,313.19	878.91
			<i>For Class 52 Rating, Deduct</i>	-987.97	
			<i>For Class 54 Rating, Add</i>	1,363.21	
			<i>For Class 55 Rating, Add</i>	2,034.84	
			<i>For Class 56 Rating, Add</i>	2,697.48	
40 05 19 00-3402	EA		20" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,755.36	882.29
			<i>For Class 52 Rating, Deduct</i>	-1,036.04	
			<i>For Class 54 Rating, Add</i>	1,428.83	
			<i>For Class 55 Rating, Add</i>	2,132.42	
			<i>For Class 56 Rating, Add</i>	2,826.60	
40 05 19 00-3403	EA		20" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,197.53	885.64
			<i>For Class 52 Rating, Deduct</i>	-1,084.12	
			<i>For Class 54 Rating, Add</i>	1,494.45	
			<i>For Class 55 Rating, Add</i>	2,230.01	
			<i>For Class 56 Rating, Add</i>	2,955.72	
40 05 19 00-3404	EA		20" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,639.69	889.02
			<i>For Class 52 Rating, Deduct</i>	-1,132.20	
			<i>For Class 54 Rating, Add</i>	1,560.07	
			<i>For Class 55 Rating, Add</i>	2,327.60	
			<i>For Class 56 Rating, Add</i>	3,084.84	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
40 05	40
<b>Ductile Iron Process Pipe 40 05 19</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3405 EA 20" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	12,081.85	892.39
<i>For Class 52 Rating, Deduct</i>	-1,180.27	
<i>For Class 54 Rating, Add</i>	1,625.69	
<i>For Class 55 Rating, Add</i>	2,425.18	
<i>For Class 56 Rating, Add</i>	3,213.95	
40 05 19 00-3406 EA 20" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	12,524.01	895.76
<i>For Class 52 Rating, Deduct</i>	-1,228.35	
<i>For Class 54 Rating, Add</i>	1,691.31	
<i>For Class 55 Rating, Add</i>	2,522.77	
<i>For Class 56 Rating, Add</i>	3,343.07	
40 05 19 00-3407 EA 20" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	12,966.18	899.12
<i>For Class 52 Rating, Deduct</i>	-1,276.43	
<i>For Class 54 Rating, Add</i>	1,756.93	
<i>For Class 55 Rating, Add</i>	2,620.36	
<i>For Class 56 Rating, Add</i>	3,472.19	
40 05 19 00-3408 EA 20" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	13,408.35	902.49
<i>For Class 52 Rating, Deduct</i>	-1,324.50	
<i>For Class 54 Rating, Add</i>	1,822.55	
<i>For Class 55 Rating, Add</i>	2,717.95	
<i>For Class 56 Rating, Add</i>	3,601.30	
40 05 19 00-3409 EA 20" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	13,850.51	905.86
<i>For Class 52 Rating, Deduct</i>	-1,372.58	
<i>For Class 54 Rating, Add</i>	1,888.17	
<i>For Class 55 Rating, Add</i>	2,815.53	
<i>For Class 56 Rating, Add</i>	3,730.42	
40 05 19 00-3410 EA 20" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	14,292.67	909.21
<i>For Class 52 Rating, Deduct</i>	-1,420.66	
<i>For Class 54 Rating, Add</i>	1,953.79	
<i>For Class 55 Rating, Add</i>	2,913.12	
<i>For Class 56 Rating, Add</i>	3,859.54	
40 05 19 00-3411 EA 20" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	14,734.84	912.59
<i>For Class 52 Rating, Deduct</i>	-1,468.73	
<i>For Class 54 Rating, Add</i>	2,019.41	
<i>For Class 55 Rating, Add</i>	3,010.71	
<i>For Class 56 Rating, Add</i>	3,988.66	
40 05 19 00-3412 EA 20" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	15,177.00	915.96
<i>For Class 52 Rating, Deduct</i>	-1,516.81	
<i>For Class 54 Rating, Add</i>	2,085.03	
<i>For Class 55 Rating, Add</i>	3,108.30	
<i>For Class 56 Rating, Add</i>	4,117.77	
40 05 19 00-3413 EA 20" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	15,619.17	919.33
<i>For Class 52 Rating, Deduct</i>	-1,564.89	
<i>For Class 54 Rating, Add</i>	2,150.65	
<i>For Class 55 Rating, Add</i>	3,205.88	
<i>For Class 56 Rating, Add</i>	4,246.89	
40 05 19 00-3414 EA 20" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	16,061.33	922.69
<i>For Class 52 Rating, Deduct</i>	-1,612.96	
<i>For Class 54 Rating, Add</i>	2,216.27	
<i>For Class 55 Rating, Add</i>	3,303.47	
<i>For Class 56 Rating, Add</i>	4,376.01	
40 05 19 00-3415 EA 20" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	16,503.50	926.06
<i>For Class 52 Rating, Deduct</i>	-1,661.04	
<i>For Class 54 Rating, Add</i>	2,281.89	
<i>For Class 55 Rating, Add</i>	3,401.06	
<i>For Class 56 Rating, Add</i>	4,505.12	
40 05 19 00-3416 EA 20" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	16,945.66	929.43
<i>For Class 52 Rating, Deduct</i>	-1,709.12	
<i>For Class 54 Rating, Add</i>	2,347.51	
<i>For Class 55 Rating, Add</i>	3,498.65	
<i>For Class 56 Rating, Add</i>	4,634.24	
40 05 19 00-3417 EA 20" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	17,387.83	932.79
<i>For Class 52 Rating, Deduct</i>	-1,757.20	
<i>For Class 54 Rating, Add</i>	2,413.13	
<i>For Class 55 Rating, Add</i>	3,596.23	
<i>For Class 56 Rating, Add</i>	4,763.36	
40 05 19 00-3418 EA 20" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	17,829.99	936.16
<i>For Class 52 Rating, Deduct</i>	-1,805.27	
<i>For Class 54 Rating, Add</i>	2,478.76	
<i>For Class 55 Rating, Add</i>	3,693.82	
<i>For Class 56 Rating, Add</i>	4,892.47	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3419	EA		20" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,272.15	939.53
			<i>For Class 52 Rating, Deduct</i>	-1,853.35	
			<i>For Class 54 Rating, Add</i>	2,544.38	
			<i>For Class 55 Rating, Add</i>	3,791.41	
			<i>For Class 56 Rating, Add</i>	5,021.59	
40 05 19 00-3420	EA		20" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,714.32	942.91
			<i>For Class 52 Rating, Deduct</i>	-1,901.43	
			<i>For Class 54 Rating, Add</i>	2,610.00	
			<i>For Class 55 Rating, Add</i>	3,889.00	
			<i>For Class 56 Rating, Add</i>	5,150.71	
40 05 19 00-3421	EA		20" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,156.48	946.26
			<i>For Class 52 Rating, Deduct</i>	-1,949.50	
			<i>For Class 54 Rating, Add</i>	2,675.62	
			<i>For Class 55 Rating, Add</i>	3,986.58	
			<i>For Class 56 Rating, Add</i>	5,279.83	
40 05 19 00-3422	EA		20" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,598.65	949.63
			<i>For Class 52 Rating, Deduct</i>	-1,997.58	
			<i>For Class 54 Rating, Add</i>	2,741.24	
			<i>For Class 55 Rating, Add</i>	4,084.17	
			<i>For Class 56 Rating, Add</i>	5,408.94	
40 05 19 00-3423	EA		20" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,040.81	953.00
			<i>For Class 52 Rating, Deduct</i>	-2,045.66	
			<i>For Class 54 Rating, Add</i>	2,806.86	
			<i>For Class 55 Rating, Add</i>	4,181.76	
			<i>For Class 56 Rating, Add</i>	5,538.06	
40 05 19 00-3424	EA		20" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,482.98	956.35
			<i>For Class 52 Rating, Deduct</i>	-2,093.73	
			<i>For Class 54 Rating, Add</i>	2,872.48	
			<i>For Class 55 Rating, Add</i>	4,279.35	
			<i>For Class 56 Rating, Add</i>	5,667.18	
40 05 19 00-3425			<b>24" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small>		
40 05 19 00-3426	EA		24" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,063.04	983.31
			<i>For Class 52 Rating, Deduct</i>	-393.05	
			<i>For Class 54 Rating, Add</i>	553.86	
			<i>For Class 55 Rating, Add</i>	832.58	
			<i>For Class 56 Rating, Add</i>	1,107.72	
40 05 19 00-3427	EA		24" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	5,609.99	986.67
			<i>For Class 52 Rating, Deduct</i>	-452.65	
			<i>For Class 54 Rating, Add</i>	635.19	
			<i>For Class 55 Rating, Add</i>	953.53	
			<i>For Class 56 Rating, Add</i>	1,267.75	
40 05 19 00-3428	EA		24" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,156.95	990.05
			<i>For Class 52 Rating, Deduct</i>	-512.26	
			<i>For Class 54 Rating, Add</i>	716.53	
			<i>For Class 55 Rating, Add</i>	1,074.49	
			<i>For Class 56 Rating, Add</i>	1,427.78	
40 05 19 00-3429	EA		24" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	6,703.90	993.40
			<i>For Class 52 Rating, Deduct</i>	-571.86	
			<i>For Class 54 Rating, Add</i>	797.87	
			<i>For Class 55 Rating, Add</i>	1,195.44	
			<i>For Class 56 Rating, Add</i>	1,587.81	
40 05 19 00-3430	EA		24" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,250.87	996.78
			<i>For Class 52 Rating, Deduct</i>	-631.47	
			<i>For Class 54 Rating, Add</i>	879.21	
			<i>For Class 55 Rating, Add</i>	1,316.40	
			<i>For Class 56 Rating, Add</i>	1,747.85	
40 05 19 00-3431	EA		24" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	7,797.82	1,000.14
			<i>For Class 52 Rating, Deduct</i>	-691.07	
			<i>For Class 54 Rating, Add</i>	960.55	
			<i>For Class 55 Rating, Add</i>	1,437.36	
			<i>For Class 56 Rating, Add</i>	1,907.88	
40 05 19 00-3432	EA		24" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,344.78	1,003.52
			<i>For Class 52 Rating, Deduct</i>	-750.67	
			<i>For Class 54 Rating, Add</i>	1,041.89	
			<i>For Class 55 Rating, Add</i>	1,558.31	
			<i>For Class 56 Rating, Add</i>	2,067.91	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3433	EA			24" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	8,891.73	1,006.87
				For Class 52 Rating, Deduct	-810.28	
				For Class 54 Rating, Add	1,123.23	
				For Class 55 Rating, Add	1,679.27	
				For Class 56 Rating, Add	2,227.94	
40 05 19 00-3434	EA			24" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	9,438.70	1,010.25
				For Class 52 Rating, Deduct	-869.88	
				For Class 54 Rating, Add	1,204.57	
				For Class 55 Rating, Add	1,800.22	
				For Class 56 Rating, Add	2,387.97	
40 05 19 00-3435	EA			24" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	9,985.65	1,013.62
				For Class 52 Rating, Deduct	-929.49	
				For Class 54 Rating, Add	1,285.91	
				For Class 55 Rating, Add	1,921.18	
				For Class 56 Rating, Add	2,548.00	
40 05 19 00-3436	EA			24" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	10,532.61	1,016.98
				For Class 52 Rating, Deduct	-989.09	
				For Class 54 Rating, Add	1,367.25	
				For Class 55 Rating, Add	2,042.14	
				For Class 56 Rating, Add	2,708.03	
40 05 19 00-3437	EA			24" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	11,079.56	1,020.34
				For Class 52 Rating, Deduct	-1,048.69	
				For Class 54 Rating, Add	1,448.59	
				For Class 55 Rating, Add	2,163.09	
				For Class 56 Rating, Add	2,868.06	
40 05 19 00-3438	EA			24" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	11,626.52	1,023.72
				For Class 52 Rating, Deduct	-1,108.30	
				For Class 54 Rating, Add	1,529.93	
				For Class 55 Rating, Add	2,284.05	
				For Class 56 Rating, Add	3,028.09	
40 05 19 00-3439	EA			24" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	12,173.48	1,027.09
				For Class 52 Rating, Deduct	-1,167.90	
				For Class 54 Rating, Add	1,611.27	
				For Class 55 Rating, Add	2,405.00	
				For Class 56 Rating, Add	3,188.12	
40 05 19 00-3440	EA			24" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	12,720.44	1,030.45
				For Class 52 Rating, Deduct	-1,227.51	
				For Class 54 Rating, Add	1,692.61	
				For Class 55 Rating, Add	2,525.96	
				For Class 56 Rating, Add	3,348.16	
40 05 19 00-3441	EA			24" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	13,267.39	1,033.82
				For Class 52 Rating, Deduct	-1,287.11	
				For Class 54 Rating, Add	1,773.95	
				For Class 55 Rating, Add	2,646.92	
				For Class 56 Rating, Add	3,508.19	
40 05 19 00-3442	EA			24" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	13,814.35	1,037.19
				For Class 52 Rating, Deduct	-1,346.71	
				For Class 54 Rating, Add	1,855.29	
				For Class 55 Rating, Add	2,767.87	
				For Class 56 Rating, Add	3,668.22	
40 05 19 00-3443	EA			24" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	14,361.30	1,040.55
				For Class 52 Rating, Deduct	-1,406.32	
				For Class 54 Rating, Add	1,936.63	
				For Class 55 Rating, Add	2,888.83	
				For Class 56 Rating, Add	3,828.25	
40 05 19 00-3444	EA			24" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	14,908.27	1,043.92
				For Class 52 Rating, Deduct	-1,465.92	
				For Class 54 Rating, Add	2,017.97	
				For Class 55 Rating, Add	3,009.79	
				For Class 56 Rating, Add	3,988.28	
40 05 19 00-3445	EA			24" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	15,455.22	1,047.29
				For Class 52 Rating, Deduct	-1,525.53	
				For Class 54 Rating, Add	2,099.30	
				For Class 55 Rating, Add	3,130.74	
				For Class 56 Rating, Add	4,148.31	
40 05 19 00-3446	EA			24" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
				Coat, Ductile Iron Pipe.....	16,002.18	1,050.66
				For Class 52 Rating, Deduct	-1,585.13	
				For Class 54 Rating, Add	2,180.64	
				For Class 55 Rating, Add	3,251.70	
				For Class 56 Rating, Add	4,308.34	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3447	EA		24" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,549.13	1,054.02
			<i>For Class 52 Rating, Deduct</i>	-1,644.73	
			<i>For Class 54 Rating, Add</i>	2,261.98	
			<i>For Class 55 Rating, Add</i>	3,372.65	
			<i>For Class 56 Rating, Add</i>	4,468.37	
40 05 19 00-3448	EA		24" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,096.10	1,057.39
			<i>For Class 52 Rating, Deduct</i>	-1,704.34	
			<i>For Class 54 Rating, Add</i>	2,343.32	
			<i>For Class 55 Rating, Add</i>	3,493.61	
			<i>For Class 56 Rating, Add</i>	4,628.40	
40 05 19 00-3449	EA		24" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,643.05	1,060.76
			<i>For Class 52 Rating, Deduct</i>	-1,763.94	
			<i>For Class 54 Rating, Add</i>	2,424.66	
			<i>For Class 55 Rating, Add</i>	3,614.57	
			<i>For Class 56 Rating, Add</i>	4,788.43	
40 05 19 00-3450	EA		24" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,190.01	1,064.14
			<i>For Class 52 Rating, Deduct</i>	-1,823.55	
			<i>For Class 54 Rating, Add</i>	2,506.00	
			<i>For Class 55 Rating, Add</i>	3,735.52	
			<i>For Class 56 Rating, Add</i>	4,948.46	
40 05 19 00-3451	EA		24" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,736.96	1,067.49
			<i>For Class 52 Rating, Deduct</i>	-1,883.15	
			<i>For Class 54 Rating, Add</i>	2,587.34	
			<i>For Class 55 Rating, Add</i>	3,856.48	
			<i>For Class 56 Rating, Add</i>	5,108.49	
40 05 19 00-3452	EA		24" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,283.92	1,070.86
			<i>For Class 52 Rating, Deduct</i>	-1,942.76	
			<i>For Class 54 Rating, Add</i>	2,668.68	
			<i>For Class 55 Rating, Add</i>	3,977.43	
			<i>For Class 56 Rating, Add</i>	5,268.53	
40 05 19 00-3453	EA		24" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,830.88	1,074.23
			<i>For Class 52 Rating, Deduct</i>	-2,002.36	
			<i>For Class 54 Rating, Add</i>	2,750.02	
			<i>For Class 55 Rating, Add</i>	4,098.39	
			<i>For Class 56 Rating, Add</i>	5,428.56	
40 05 19 00-3454	EA		24" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,377.84	1,077.59
			<i>For Class 52 Rating, Deduct</i>	-2,061.96	
			<i>For Class 54 Rating, Add</i>	2,831.36	
			<i>For Class 55 Rating, Add</i>	4,219.35	
			<i>For Class 56 Rating, Add</i>	5,588.59	
40 05 19 00-3455	EA		24" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,011.53	1,138.21
			<i>For Class 52 Rating, Deduct</i>	-2,121.57	
			<i>For Class 54 Rating, Add</i>	2,913.74	
			<i>For Class 55 Rating, Add</i>	4,342.38	
			<i>For Class 56 Rating, Add</i>	5,751.74	
40 05 19 00-3456	EA		24" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,558.49	1,141.57
			<i>For Class 52 Rating, Deduct</i>	-2,181.17	
			<i>For Class 54 Rating, Add</i>	2,995.08	
			<i>For Class 55 Rating, Add</i>	4,463.34	
			<i>For Class 56 Rating, Add</i>	5,911.77	
40 05 19 00-3457	EA		24" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,105.44	1,144.95
			<i>For Class 52 Rating, Deduct</i>	-2,240.77	
			<i>For Class 54 Rating, Add</i>	3,076.42	
			<i>For Class 55 Rating, Add</i>	4,584.30	
			<i>For Class 56 Rating, Add</i>	6,071.80	
40 05 19 00-3458	EA		24" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,652.40	1,148.32
			<i>For Class 52 Rating, Deduct</i>	-2,300.38	
			<i>For Class 54 Rating, Add</i>	3,157.76	
			<i>For Class 55 Rating, Add</i>	4,705.25	
			<i>For Class 56 Rating, Add</i>	6,231.83	
40 05 19 00-3459	EA		24" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,199.36	1,151.68
			<i>For Class 52 Rating, Deduct</i>	-2,359.98	
			<i>For Class 54 Rating, Add</i>	3,239.10	
			<i>For Class 55 Rating, Add</i>	4,826.21	
			<i>For Class 56 Rating, Add</i>	6,391.86	
40 05 19 00-3460	EA		24" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,302.24	1,155.05
			<i>For Class 52 Rating, Deduct</i>	-2,700.74	
			<i>For Class 54 Rating, Add</i>	3,703.83	
			<i>For Class 55 Rating, Add</i>	5,517.14	
			<i>For Class 56 Rating, Add</i>	7,305.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3461 EA 24" Flanged x Plain End (FxPE), 18'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,293.27	1,158.42
For Class 52 Rating, Deduct	-2,479.19	
For Class 54 Rating, Add	3,401.78	
For Class 55 Rating, Add	5,068.12	
For Class 56 Rating, Add	6,711.93	
40 05 19 00-3462 EA 24" Flanged x Plain End (FxPE), 19'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,840.23	1,161.78
For Class 52 Rating, Deduct	-2,538.80	
For Class 54 Rating, Add	3,483.12	
For Class 55 Rating, Add	5,189.08	
For Class 56 Rating, Add	6,871.96	
40 05 19 00-3463 EA 24" Flanged x Plain End (FxPE), 19'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,387.18	1,165.15
For Class 52 Rating, Deduct	-2,598.40	
For Class 54 Rating, Add	3,564.46	
For Class 55 Rating, Add	5,310.03	
For Class 56 Rating, Add	7,031.99	
 <b>40 05 19 00-3464 30" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3068)</b>		
40 05 19 00-3465 EA 30" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	8,476.59	1,387.41
For Class 52 Rating, Deduct	-701.19	
For Class 54 Rating, Add	981.39	
For Class 55 Rating, Add	1,471.96	
For Class 56 Rating, Add	1,956.14	
40 05 19 00-3466 EA 30" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	9,258.69	1,390.76
For Class 52 Rating, Deduct	-786.66	
For Class 54 Rating, Add	1,098.01	
For Class 55 Rating, Add	1,645.35	
For Class 56 Rating, Add	2,185.54	
40 05 19 00-3467 EA 30" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,040.79	1,394.14
For Class 52 Rating, Deduct	-872.13	
For Class 54 Rating, Add	1,214.62	
For Class 55 Rating, Add	1,818.74	
For Class 56 Rating, Add	2,414.94	
40 05 19 00-3468 EA 30" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,822.89	1,397.51
For Class 52 Rating, Deduct	-957.60	
For Class 54 Rating, Add	1,331.23	
For Class 55 Rating, Add	1,992.14	
For Class 56 Rating, Add	2,644.34	
40 05 19 00-3469 EA 30" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,604.99	1,400.88
For Class 52 Rating, Deduct	-1,043.07	
For Class 54 Rating, Add	1,447.84	
For Class 55 Rating, Add	2,165.53	
For Class 56 Rating, Add	2,873.74	
40 05 19 00-3470 EA 30" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,387.10	1,404.23
For Class 52 Rating, Deduct	-1,128.54	
For Class 54 Rating, Add	1,564.45	
For Class 55 Rating, Add	2,338.92	
For Class 56 Rating, Add	3,103.14	
40 05 19 00-3471 EA 30" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,169.20	1,407.61
For Class 52 Rating, Deduct	-1,214.01	
For Class 54 Rating, Add	1,681.06	
For Class 55 Rating, Add	2,512.32	
For Class 56 Rating, Add	3,332.53	
40 05 19 00-3472 EA 30" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,951.30	1,410.98
For Class 52 Rating, Deduct	-1,299.48	
For Class 54 Rating, Add	1,797.67	
For Class 55 Rating, Add	2,685.71	
For Class 56 Rating, Add	3,561.93	
40 05 19 00-3473 EA 30" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,733.40	1,414.34
For Class 52 Rating, Deduct	-1,384.95	
For Class 54 Rating, Add	1,914.28	
For Class 55 Rating, Add	2,859.10	
For Class 56 Rating, Add	3,791.33	
40 05 19 00-3474 EA 30" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,515.51	1,417.71
For Class 52 Rating, Deduct	-1,470.42	
For Class 54 Rating, Add	2,030.90	
For Class 55 Rating, Add	3,032.50	
For Class 56 Rating, Add	4,020.73	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3475	EA		30" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,297.61	1,421.08
			<i>For Class 52 Rating, Deduct</i>	-1,555.89	
			<i>For Class 54 Rating, Add</i>	2,147.51	
			<i>For Class 55 Rating, Add</i>	3,205.89	
			<i>For Class 56 Rating, Add</i>	4,250.13	
40 05 19 00-3476	EA		30" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,079.71	1,424.45
			<i>For Class 52 Rating, Deduct</i>	-1,641.36	
			<i>For Class 54 Rating, Add</i>	2,264.12	
			<i>For Class 55 Rating, Add</i>	3,379.28	
			<i>For Class 56 Rating, Add</i>	4,479.53	
40 05 19 00-3477	EA		30" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,861.81	1,427.81
			<i>For Class 52 Rating, Deduct</i>	-1,726.83	
			<i>For Class 54 Rating, Add</i>	2,380.73	
			<i>For Class 55 Rating, Add</i>	3,552.68	
			<i>For Class 56 Rating, Add</i>	4,708.93	
40 05 19 00-3478	EA		30" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,643.91	1,431.18
			<i>For Class 52 Rating, Deduct</i>	-1,812.30	
			<i>For Class 54 Rating, Add</i>	2,497.34	
			<i>For Class 55 Rating, Add</i>	3,726.07	
			<i>For Class 56 Rating, Add</i>	4,938.32	
40 05 19 00-3479	EA		30" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	19,426.02	1,434.55
			<i>For Class 52 Rating, Deduct</i>	-1,897.77	
			<i>For Class 54 Rating, Add</i>	2,613.95	
			<i>For Class 55 Rating, Add</i>	3,899.46	
			<i>For Class 56 Rating, Add</i>	5,167.72	
40 05 19 00-3480	EA		30" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,208.12	1,437.91
			<i>For Class 52 Rating, Deduct</i>	-1,983.24	
			<i>For Class 54 Rating, Add</i>	2,730.56	
			<i>For Class 55 Rating, Add</i>	4,072.86	
			<i>For Class 56 Rating, Add</i>	5,397.12	
40 05 19 00-3481	EA		30" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,990.22	1,441.28
			<i>For Class 52 Rating, Deduct</i>	-2,068.71	
			<i>For Class 54 Rating, Add</i>	2,847.17	
			<i>For Class 55 Rating, Add</i>	4,246.25	
			<i>For Class 56 Rating, Add</i>	5,626.52	
40 05 19 00-3482	EA		30" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,772.32	1,444.65
			<i>For Class 52 Rating, Deduct</i>	-2,154.18	
			<i>For Class 54 Rating, Add</i>	2,963.79	
			<i>For Class 55 Rating, Add</i>	4,419.64	
			<i>For Class 56 Rating, Add</i>	5,855.92	
40 05 19 00-3483	EA		30" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,554.42	1,448.03
			<i>For Class 52 Rating, Deduct</i>	-2,239.65	
			<i>For Class 54 Rating, Add</i>	3,080.40	
			<i>For Class 55 Rating, Add</i>	4,593.04	
			<i>For Class 56 Rating, Add</i>	6,085.32	
40 05 19 00-3484	EA		30" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,336.53	1,451.38
			<i>For Class 52 Rating, Deduct</i>	-2,325.12	
			<i>For Class 54 Rating, Add</i>	3,197.01	
			<i>For Class 55 Rating, Add</i>	4,766.43	
			<i>For Class 56 Rating, Add</i>	6,314.72	
40 05 19 00-3485	EA		30" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,118.63	1,454.75
			<i>For Class 52 Rating, Deduct</i>	-2,410.59	
			<i>For Class 54 Rating, Add</i>	3,313.62	
			<i>For Class 55 Rating, Add</i>	4,939.82	
			<i>For Class 56 Rating, Add</i>	6,544.12	
40 05 19 00-3486	EA		30" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,900.73	1,458.12
			<i>For Class 52 Rating, Deduct</i>	-2,496.06	
			<i>For Class 54 Rating, Add</i>	3,430.23	
			<i>For Class 55 Rating, Add</i>	5,113.22	
			<i>For Class 56 Rating, Add</i>	6,773.51	
40 05 19 00-3487	EA		30" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,682.83	1,461.48
			<i>For Class 52 Rating, Deduct</i>	-2,581.53	
			<i>For Class 54 Rating, Add</i>	3,546.84	
			<i>For Class 55 Rating, Add</i>	5,286.61	
			<i>For Class 56 Rating, Add</i>	7,002.91	
40 05 19 00-3488	EA		30" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,464.94	1,464.85
			<i>For Class 52 Rating, Deduct</i>	-2,667.00	
			<i>For Class 54 Rating, Add</i>	3,663.45	
			<i>For Class 55 Rating, Add</i>	5,460.01	
			<i>For Class 56 Rating, Add</i>	7,232.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3489 EA 30" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	27,247.04	1,468.23
<i>For Class 52 Rating, Deduct</i>	-2,752.47	
<i>For Class 54 Rating, Add</i>	3,780.06	
<i>For Class 55 Rating, Add</i>	5,633.40	
<i>For Class 56 Rating, Add</i>	7,461.71	
40 05 19 00-3490 EA 30" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,029.14	1,471.59
<i>For Class 52 Rating, Deduct</i>	-2,837.94	
<i>For Class 54 Rating, Add</i>	3,896.68	
<i>For Class 55 Rating, Add</i>	5,806.79	
<i>For Class 56 Rating, Add</i>	7,691.11	
40 05 19 00-3491 EA 30" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	28,811.24	1,474.96
<i>For Class 52 Rating, Deduct</i>	-2,923.41	
<i>For Class 54 Rating, Add</i>	4,013.29	
<i>For Class 55 Rating, Add</i>	5,980.19	
<i>For Class 56 Rating, Add</i>	7,920.51	
40 05 19 00-3492 EA 30" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	29,593.34	1,478.32
<i>For Class 52 Rating, Deduct</i>	-3,008.88	
<i>For Class 54 Rating, Add</i>	4,129.90	
<i>For Class 55 Rating, Add</i>	6,153.58	
<i>For Class 56 Rating, Add</i>	8,149.91	
40 05 19 00-3493 EA 30" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	30,375.45	1,481.70
<i>For Class 52 Rating, Deduct</i>	-3,094.35	
<i>For Class 54 Rating, Add</i>	4,246.51	
<i>For Class 55 Rating, Add</i>	6,326.97	
<i>For Class 56 Rating, Add</i>	8,379.31	
40 05 19 00-3494 EA 30" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,157.55	1,485.06
<i>For Class 52 Rating, Deduct</i>	-3,179.82	
<i>For Class 54 Rating, Add</i>	4,363.12	
<i>For Class 55 Rating, Add</i>	6,500.37	
<i>For Class 56 Rating, Add</i>	8,608.70	
40 05 19 00-3495 EA 30" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	31,939.64	1,488.43
<i>For Class 52 Rating, Deduct</i>	-3,265.29	
<i>For Class 54 Rating, Add</i>	4,479.73	
<i>For Class 55 Rating, Add</i>	6,673.76	
<i>For Class 56 Rating, Add</i>	8,838.10	
40 05 19 00-3496 EA 30" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	32,721.74	1,491.79
<i>For Class 52 Rating, Deduct</i>	-3,350.76	
<i>For Class 54 Rating, Add</i>	4,596.34	
<i>For Class 55 Rating, Add</i>	6,847.15	
<i>For Class 56 Rating, Add</i>	9,067.50	
40 05 19 00-3497 EA 30" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	33,503.85	1,495.17
<i>For Class 52 Rating, Deduct</i>	-3,436.23	
<i>For Class 54 Rating, Add</i>	4,712.95	
<i>For Class 55 Rating, Add</i>	7,020.54	
<i>For Class 56 Rating, Add</i>	9,296.90	
40 05 19 00-3498 EA 30" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	34,285.95	1,498.52
<i>For Class 52 Rating, Deduct</i>	-3,521.70	
<i>For Class 54 Rating, Add</i>	4,829.56	
<i>For Class 55 Rating, Add</i>	7,193.94	
<i>For Class 56 Rating, Add</i>	9,526.30	
40 05 19 00-3499 EA 30" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	35,068.05	1,501.90
<i>For Class 52 Rating, Deduct</i>	-3,607.17	
<i>For Class 54 Rating, Add</i>	4,946.17	
<i>For Class 55 Rating, Add</i>	7,367.33	
<i>For Class 56 Rating, Add</i>	9,755.69	
 40 05 19 00-3500 36" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe <small>(40 05 19 00-3068)</small>		
40 05 19 00-3501 EA 36" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	10,602.06	1,757.83
<i>For Class 52 Rating, Deduct</i>	-873.26	
<i>For Class 54 Rating, Add</i>	1,222.76	
<i>For Class 55 Rating, Add</i>	1,834.25	
<i>For Class 56 Rating, Add</i>	2,437.79	
40 05 19 00-3502 EA 36" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	11,649.97	1,761.21
<i>For Class 52 Rating, Deduct</i>	-987.97	
<i>For Class 54 Rating, Add</i>	1,379.25	
<i>For Class 55 Rating, Add</i>	2,066.92	
<i>For Class 56 Rating, Add</i>	2,745.61	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3503	EA		36" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	12,697.90	1,764.56
			<i>For Class 52 Rating, Deduct</i>	-1,102.68	
			<i>For Class 54 Rating, Add</i>	1,535.73	
			<i>For Class 55 Rating, Add</i>	2,299.59	
			<i>For Class 56 Rating, Add</i>	3,053.42	
40 05 19 00-3504	EA		36" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	13,745.81	1,767.93
			<i>For Class 52 Rating, Deduct</i>	-1,217.38	
			<i>For Class 54 Rating, Add</i>	1,692.21	
			<i>For Class 55 Rating, Add</i>	2,532.26	
			<i>For Class 56 Rating, Add</i>	3,361.24	
40 05 19 00-3505	EA		36" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,793.73	1,771.30
			<i>For Class 52 Rating, Deduct</i>	-1,332.09	
			<i>For Class 54 Rating, Add</i>	1,848.70	
			<i>For Class 55 Rating, Add</i>	2,764.93	
			<i>For Class 56 Rating, Add</i>	3,669.05	
40 05 19 00-3506	EA		36" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,841.64	1,774.65
			<i>For Class 52 Rating, Deduct</i>	-1,446.80	
			<i>For Class 54 Rating, Add</i>	2,005.18	
			<i>For Class 55 Rating, Add</i>	2,997.60	
			<i>For Class 56 Rating, Add</i>	3,976.86	
40 05 19 00-3507	EA		36" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	16,889.57	1,778.03
			<i>For Class 52 Rating, Deduct</i>	-1,561.51	
			<i>For Class 54 Rating, Add</i>	2,161.66	
			<i>For Class 55 Rating, Add</i>	3,230.27	
			<i>For Class 56 Rating, Add</i>	4,284.68	
40 05 19 00-3508	EA		36" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,937.49	1,781.41
			<i>For Class 52 Rating, Deduct</i>	-1,676.22	
			<i>For Class 54 Rating, Add</i>	2,318.15	
			<i>For Class 55 Rating, Add</i>	3,462.94	
			<i>For Class 56 Rating, Add</i>	4,592.50	
40 05 19 00-3509	EA		36" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,985.40	1,784.77
			<i>For Class 52 Rating, Deduct</i>	-1,790.93	
			<i>For Class 54 Rating, Add</i>	2,474.63	
			<i>For Class 55 Rating, Add</i>	3,695.61	
			<i>For Class 56 Rating, Add</i>	4,900.31	
40 05 19 00-3510	EA		36" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,033.32	1,788.12
			<i>For Class 52 Rating, Deduct</i>	-1,905.64	
			<i>For Class 54 Rating, Add</i>	2,631.12	
			<i>For Class 55 Rating, Add</i>	3,928.28	
			<i>For Class 56 Rating, Add</i>	5,208.12	
40 05 19 00-3511	EA		36" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,081.23	1,791.50
			<i>For Class 52 Rating, Deduct</i>	-2,020.35	
			<i>For Class 54 Rating, Add</i>	2,787.60	
			<i>For Class 55 Rating, Add</i>	4,160.95	
			<i>For Class 56 Rating, Add</i>	5,515.94	
40 05 19 00-3512	EA		36" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	22,129.16	1,794.88
			<i>For Class 52 Rating, Deduct</i>	-2,135.06	
			<i>For Class 54 Rating, Add</i>	2,944.08	
			<i>For Class 55 Rating, Add</i>	4,393.62	
			<i>For Class 56 Rating, Add</i>	5,823.75	
40 05 19 00-3513	EA		36" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,177.07	1,798.23
			<i>For Class 52 Rating, Deduct</i>	-2,249.77	
			<i>For Class 54 Rating, Add</i>	3,100.57	
			<i>For Class 55 Rating, Add</i>	4,626.29	
			<i>For Class 56 Rating, Add</i>	6,131.56	
40 05 19 00-3514	EA		36" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,224.99	1,801.61
			<i>For Class 52 Rating, Deduct</i>	-2,364.48	
			<i>For Class 54 Rating, Add</i>	3,257.05	
			<i>For Class 55 Rating, Add</i>	4,858.96	
			<i>For Class 56 Rating, Add</i>	6,439.38	
40 05 19 00-3515	EA		36" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	25,272.90	1,804.97
			<i>For Class 52 Rating, Deduct</i>	-2,479.19	
			<i>For Class 54 Rating, Add</i>	3,413.53	
			<i>For Class 55 Rating, Add</i>	5,091.63	
			<i>For Class 56 Rating, Add</i>	6,747.19	
40 05 19 00-3516	EA		36" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	26,320.83	1,808.35
			<i>For Class 52 Rating, Deduct</i>	-2,593.90	
			<i>For Class 54 Rating, Add</i>	3,570.02	
			<i>For Class 55 Rating, Add</i>	5,324.30	
			<i>For Class 56 Rating, Add</i>	7,055.01	





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3517 EA 36" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	27,368.74	1,811.70
<i>For Class 52 Rating, Deduct</i>	-2,708.61	
<i>For Class 54 Rating, Add</i>	3,726.50	
<i>For Class 55 Rating, Add</i>	5,556.97	
<i>For Class 56 Rating, Add</i>	7,362.82	
40 05 19 00-3518 EA 36" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	28,416.66	1,815.08
<i>For Class 52 Rating, Deduct</i>	-2,823.32	
<i>For Class 54 Rating, Add</i>	3,882.98	
<i>For Class 55 Rating, Add</i>	5,789.64	
<i>For Class 56 Rating, Add</i>	7,670.64	
40 05 19 00-3519 EA 36" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	29,464.57	1,818.44
<i>For Class 52 Rating, Deduct</i>	-2,938.03	
<i>For Class 54 Rating, Add</i>	4,039.47	
<i>For Class 55 Rating, Add</i>	6,022.31	
<i>For Class 56 Rating, Add</i>	7,978.45	
40 05 19 00-3520 EA 36" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	30,512.49	1,821.82
<i>For Class 52 Rating, Deduct</i>	-3,052.74	
<i>For Class 54 Rating, Add</i>	4,195.95	
<i>For Class 55 Rating, Add</i>	6,254.98	
<i>For Class 56 Rating, Add</i>	8,286.26	
40 05 19 00-3521 EA 36" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	31,560.41	1,825.17
<i>For Class 52 Rating, Deduct</i>	-3,167.45	
<i>For Class 54 Rating, Add</i>	4,352.43	
<i>For Class 55 Rating, Add</i>	6,487.65	
<i>For Class 56 Rating, Add</i>	8,594.08	
40 05 19 00-3522 EA 36" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	32,608.33	1,828.55
<i>For Class 52 Rating, Deduct</i>	-3,282.16	
<i>For Class 54 Rating, Add</i>	4,508.92	
<i>For Class 55 Rating, Add</i>	6,720.32	
<i>For Class 56 Rating, Add</i>	8,901.89	
40 05 19 00-3523 EA 36" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	33,656.25	1,831.92
<i>For Class 52 Rating, Deduct</i>	-3,396.87	
<i>For Class 54 Rating, Add</i>	4,665.40	
<i>For Class 55 Rating, Add</i>	6,953.00	
<i>For Class 56 Rating, Add</i>	9,209.71	
40 05 19 00-3524 EA 36" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	34,704.16	1,835.28
<i>For Class 52 Rating, Deduct</i>	-3,511.58	
<i>For Class 54 Rating, Add</i>	4,821.88	
<i>For Class 55 Rating, Add</i>	7,185.66	
<i>For Class 56 Rating, Add</i>	9,517.52	
40 05 19 00-3525 EA 36" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	35,752.08	1,838.64
<i>For Class 52 Rating, Deduct</i>	-3,626.29	
<i>For Class 54 Rating, Add</i>	4,978.37	
<i>For Class 55 Rating, Add</i>	7,418.34	
<i>For Class 56 Rating, Add</i>	9,825.34	
40 05 19 00-3526 EA 36" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	36,800.00	1,842.02
<i>For Class 52 Rating, Deduct</i>	-3,741.00	
<i>For Class 54 Rating, Add</i>	5,134.85	
<i>For Class 55 Rating, Add</i>	7,651.00	
<i>For Class 56 Rating, Add</i>	10,133.15	
40 05 19 00-3527 EA 36" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	37,847.92	1,845.39
<i>For Class 52 Rating, Deduct</i>	-3,855.71	
<i>For Class 54 Rating, Add</i>	5,291.34	
<i>For Class 55 Rating, Add</i>	7,883.68	
<i>For Class 56 Rating, Add</i>	10,440.96	
40 05 19 00-3528 EA 36" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	38,895.83	1,848.75
<i>For Class 52 Rating, Deduct</i>	-3,970.42	
<i>For Class 54 Rating, Add</i>	5,447.82	
<i>For Class 55 Rating, Add</i>	8,116.35	
<i>For Class 56 Rating, Add</i>	10,748.78	
40 05 19 00-3529 EA 36" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	39,943.75	1,852.12
<i>For Class 52 Rating, Deduct</i>	-4,085.13	
<i>For Class 54 Rating, Add</i>	5,604.30	
<i>For Class 55 Rating, Add</i>	8,349.02	
<i>For Class 56 Rating, Add</i>	11,056.59	
40 05 19 00-3530 EA 36" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	40,991.67	1,855.49
<i>For Class 52 Rating, Deduct</i>	-4,199.84	
<i>For Class 54 Rating, Add</i>	5,760.79	
<i>For Class 55 Rating, Add</i>	8,581.69	
<i>For Class 56 Rating, Add</i>	11,364.41	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3531	EA		36" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	42,039.60	1,858.85
			<i>For Class 52 Rating, Deduct</i>	-4,314.55	
			<i>For Class 54 Rating, Add</i>	5,917.27	
			<i>For Class 55 Rating, Add</i>	8,814.36	
			<i>For Class 56 Rating, Add</i>	11,672.22	
40 05 19 00-3532	EA		36" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	43,087.51	1,862.22
			<i>For Class 52 Rating, Deduct</i>	-4,429.26	
			<i>For Class 54 Rating, Add</i>	6,073.75	
			<i>For Class 55 Rating, Add</i>	9,047.03	
			<i>For Class 56 Rating, Add</i>	11,980.03	
40 05 19 00-3533	EA		36" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	44,135.43	1,865.59
			<i>For Class 52 Rating, Deduct</i>	-4,543.97	
			<i>For Class 54 Rating, Add</i>	6,230.24	
			<i>For Class 55 Rating, Add</i>	9,279.70	
			<i>For Class 56 Rating, Add</i>	12,287.85	
40 05 19 00-3534	EA		36" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	45,183.34	1,868.96
			<i>For Class 52 Rating, Deduct</i>	-4,658.67	
			<i>For Class 54 Rating, Add</i>	6,386.72	
			<i>For Class 55 Rating, Add</i>	9,512.37	
			<i>For Class 56 Rating, Add</i>	12,595.66	
40 05 19 00-3535	EA		36" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	46,231.27	1,872.32
			<i>For Class 52 Rating, Deduct</i>	-4,773.39	
			<i>For Class 54 Rating, Add</i>	6,543.20	
			<i>For Class 55 Rating, Add</i>	9,745.04	
			<i>For Class 56 Rating, Add</i>	12,903.48	
40 05 19 00-3536			<b>42" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe</b> <small>(40 05 19 00-3068)</small>		
40 05 19 00-3537	EA		42" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	14,000.14	2,215.81
			<i>For Class 52 Rating, Deduct</i>	-1,170.71	
			<i>For Class 54 Rating, Add</i>	1,636.71	
			<i>For Class 55 Rating, Add</i>	2,453.93	
			<i>For Class 56 Rating, Add</i>	3,260.50	
40 05 19 00-3538	EA		42" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	15,543.90	2,219.17
			<i>For Class 52 Rating, Deduct</i>	-1,339.97	
			<i>For Class 54 Rating, Add</i>	1,867.58	
			<i>For Class 55 Rating, Add</i>	2,797.17	
			<i>For Class 56 Rating, Add</i>	3,714.59	
40 05 19 00-3539	EA		42" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	17,074.89	2,222.53
			<i>For Class 52 Rating, Deduct</i>	-1,507.81	
			<i>For Class 54 Rating, Add</i>	2,096.52	
			<i>For Class 55 Rating, Add</i>	3,137.57	
			<i>For Class 56 Rating, Add</i>	4,164.91	
40 05 19 00-3540	EA		42" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	18,621.21	2,225.91
			<i>For Class 52 Rating, Deduct</i>	-1,677.35	
			<i>For Class 54 Rating, Add</i>	2,327.76	
			<i>For Class 55 Rating, Add</i>	3,481.38	
			<i>For Class 56 Rating, Add</i>	4,619.76	
40 05 19 00-3541	EA		42" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	20,157.30	2,229.28
			<i>For Class 52 Rating, Deduct</i>	-1,845.76	
			<i>For Class 54 Rating, Add</i>	2,557.47	
			<i>For Class 55 Rating, Add</i>	3,822.92	
			<i>For Class 56 Rating, Add</i>	5,071.58	
40 05 19 00-3542	EA		42" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	21,708.75	2,232.64
			<i>For Class 52 Rating, Deduct</i>	-2,015.85	
			<i>For Class 54 Rating, Add</i>	2,789.49	
			<i>For Class 55 Rating, Add</i>	4,167.87	
			<i>For Class 56 Rating, Add</i>	5,527.94	
40 05 19 00-3543	EA		42" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	23,244.84	2,236.01
			<i>For Class 52 Rating, Deduct</i>	-2,184.26	
			<i>For Class 54 Rating, Add</i>	3,019.20	
			<i>For Class 55 Rating, Add</i>	4,509.41	
			<i>For Class 56 Rating, Add</i>	5,979.76	
40 05 19 00-3544	EA		42" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	24,798.83	2,239.38
			<i>For Class 52 Rating, Deduct</i>	-2,354.64	
			<i>For Class 54 Rating, Add</i>	3,251.59	
			<i>For Class 55 Rating, Add</i>	4,854.93	
			<i>For Class 56 Rating, Add</i>	6,436.87	



<b>Process Interconnections</b> <b>40</b>
<b>Common Work Results For Process Interconnections</b> <b>40 05</b>
<b>Ductile Iron Process Pipe</b> <b>40 05 19</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3545 EA 42" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	26,337.48	2,242.75
<i>For Class 52 Rating, Deduct</i>	-2,523.33	
<i>For Class 54 Rating, Add</i>	3,481.68	
<i>For Class 55 Rating, Add</i>	5,197.04	
<i>For Class 56 Rating, Add</i>	6,889.45	
40 05 19 00-3546 EA 42" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	27,894.03	2,246.11
<i>For Class 52 Rating, Deduct</i>	-2,693.99	
<i>For Class 54 Rating, Add</i>	3,714.46	
<i>For Class 55 Rating, Add</i>	5,543.13	
<i>For Class 56 Rating, Add</i>	7,347.31	
40 05 19 00-3547 EA 42" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	29,432.69	2,249.48
<i>For Class 52 Rating, Deduct</i>	-2,862.68	
<i>For Class 54 Rating, Add</i>	3,944.56	
<i>For Class 55 Rating, Add</i>	5,885.24	
<i>For Class 56 Rating, Add</i>	7,799.89	
40 05 19 00-3548 EA 42" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	30,989.23	2,252.85
<i>For Class 52 Rating, Deduct</i>	-3,033.34	
<i>For Class 54 Rating, Add</i>	4,177.33	
<i>For Class 55 Rating, Add</i>	6,231.33	
<i>For Class 56 Rating, Add</i>	8,257.75	
40 05 19 00-3549 EA 42" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	32,530.44	2,256.21
<i>For Class 52 Rating, Deduct</i>	-3,202.31	
<i>For Class 54 Rating, Add</i>	4,407.81	
<i>For Class 55 Rating, Add</i>	6,574.00	
<i>For Class 56 Rating, Add</i>	8,711.09	
40 05 19 00-3550 EA 42" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	34,074.20	2,259.58
<i>For Class 52 Rating, Deduct</i>	-3,371.56	
<i>For Class 54 Rating, Add</i>	4,638.67	
<i>For Class 55 Rating, Add</i>	6,917.25	
<i>For Class 56 Rating, Add</i>	9,165.17	
40 05 19 00-3551 EA 42" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	35,628.20	2,262.95
<i>For Class 52 Rating, Deduct</i>	-3,541.94	
<i>For Class 54 Rating, Add</i>	4,871.07	
<i>For Class 55 Rating, Add</i>	7,262.77	
<i>For Class 56 Rating, Add</i>	9,622.28	
40 05 19 00-3552 EA 42" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	37,169.41	2,266.33
<i>For Class 52 Rating, Deduct</i>	-3,710.91	
<i>For Class 54 Rating, Add</i>	5,101.54	
<i>For Class 55 Rating, Add</i>	7,605.45	
<i>For Class 56 Rating, Add</i>	10,075.62	
40 05 19 00-3553 EA 42" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	38,728.51	2,269.68
<i>For Class 52 Rating, Deduct</i>	-3,881.85	
<i>For Class 54 Rating, Add</i>	5,334.71	
<i>For Class 55 Rating, Add</i>	7,952.11	
<i>For Class 56 Rating, Add</i>	10,534.23	
40 05 19 00-3554 EA 42" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	40,272.27	2,273.05
<i>For Class 52 Rating, Deduct</i>	-4,051.11	
<i>For Class 54 Rating, Add</i>	5,565.57	
<i>For Class 55 Rating, Add</i>	8,295.36	
<i>For Class 56 Rating, Add</i>	10,988.32	
40 05 19 00-3555 EA 42" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	41,828.81	2,276.42
<i>For Class 52 Rating, Deduct</i>	-4,221.77	
<i>For Class 54 Rating, Add</i>	5,798.34	
<i>For Class 55 Rating, Add</i>	8,641.45	
<i>For Class 56 Rating, Add</i>	11,446.18	
40 05 19 00-3556 EA 42" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	43,372.59	2,279.78
<i>For Class 52 Rating, Deduct</i>	-4,391.02	
<i>For Class 54 Rating, Add</i>	6,029.20	
<i>For Class 55 Rating, Add</i>	8,984.70	
<i>For Class 56 Rating, Add</i>	11,900.27	
40 05 19 00-3557 EA 42" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	44,931.69	2,283.15
<i>For Class 52 Rating, Deduct</i>	-4,561.96	
<i>For Class 54 Rating, Add</i>	6,262.37	
<i>For Class 55 Rating, Add</i>	9,331.36	
<i>For Class 56 Rating, Add</i>	12,358.88	
40 05 19 00-3558 EA 42" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	46,475.45	2,286.53
<i>For Class 52 Rating, Deduct</i>	-4,731.21	
<i>For Class 54 Rating, Add</i>	6,493.23	
<i>For Class 55 Rating, Add</i>	9,674.60	
<i>For Class 56 Rating, Add</i>	12,812.97	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3559	EA		42" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	48,034.55	2,289.89
			<i>For Class 52 Rating, Deduct</i>	-4,902.15	
			<i>For Class 54 Rating, Add</i>	6,726.39	
			<i>For Class 55 Rating, Add</i>	10,021.27	
			<i>For Class 56 Rating, Add</i>	13,271.58	
40 05 19 00-3560	EA		42" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	49,575.76	2,293.25
			<i>For Class 52 Rating, Deduct</i>	-5,071.12	
			<i>For Class 54 Rating, Add</i>	6,956.87	
			<i>For Class 55 Rating, Add</i>	10,363.94	
			<i>For Class 56 Rating, Add</i>	13,724.92	
40 05 19 00-3561	EA		42" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	51,137.42	2,296.62
			<i>For Class 52 Rating, Deduct</i>	-5,242.34	
			<i>For Class 54 Rating, Add</i>	7,190.41	
			<i>For Class 55 Rating, Add</i>	10,711.18	
			<i>For Class 56 Rating, Add</i>	14,184.29	
40 05 19 00-3562	EA		42" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	52,681.19	2,300.00
			<i>For Class 52 Rating, Deduct</i>	-5,411.60	
			<i>For Class 54 Rating, Add</i>	7,421.27	
			<i>For Class 55 Rating, Add</i>	11,054.42	
			<i>For Class 56 Rating, Add</i>	14,638.38	
40 05 19 00-3563	EA		42" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	54,237.73	2,303.35
			<i>For Class 52 Rating, Deduct</i>	-5,582.26	
			<i>For Class 54 Rating, Add</i>	7,654.05	
			<i>For Class 55 Rating, Add</i>	11,400.52	
			<i>For Class 56 Rating, Add</i>	15,096.24	
40 05 19 00-3564	EA		42" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	55,784.05	2,306.73
			<i>For Class 52 Rating, Deduct</i>	-5,751.79	
			<i>For Class 54 Rating, Add</i>	7,885.29	
			<i>For Class 55 Rating, Add</i>	11,744.33	
			<i>For Class 56 Rating, Add</i>	15,551.08	
40 05 19 00-3565	EA		42" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	57,026.23	2,310.09
			<i>For Class 52 Rating, Deduct</i>	-5,887.87	
			<i>For Class 54 Rating, Add</i>	8,070.91	
			<i>For Class 55 Rating, Add</i>	12,020.32	
			<i>For Class 56 Rating, Add</i>	15,916.20	
40 05 19 00-3566	EA		42" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	58,886.92	2,313.47
			<i>For Class 52 Rating, Deduct</i>	-6,091.98	
			<i>For Class 54 Rating, Add</i>	8,349.31	
			<i>For Class 55 Rating, Add</i>	12,434.24	
			<i>For Class 56 Rating, Add</i>	16,463.78	
40 05 19 00-3567	EA		42" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	60,428.13	2,316.82
			<i>For Class 52 Rating, Deduct</i>	-6,260.96	
			<i>For Class 54 Rating, Add</i>	8,579.79	
			<i>For Class 55 Rating, Add</i>	12,776.91	
			<i>For Class 56 Rating, Add</i>	16,917.12	
40 05 19 00-3568	EA		42" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	61,987.23	2,320.20
			<i>For Class 52 Rating, Deduct</i>	-6,431.90	
			<i>For Class 54 Rating, Add</i>	8,812.95	
			<i>For Class 55 Rating, Add</i>	13,123.58	
			<i>For Class 56 Rating, Add</i>	17,375.73	
40 05 19 00-3569	EA		42" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	63,531.00	2,323.56
			<i>For Class 52 Rating, Deduct</i>	-6,601.15	
			<i>For Class 54 Rating, Add</i>	9,043.81	
			<i>For Class 55 Rating, Add</i>	13,466.82	
			<i>For Class 56 Rating, Add</i>	17,829.82	
40 05 19 00-3570	EA		42" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	65,092.66	2,326.94
			<i>For Class 52 Rating, Deduct</i>	-6,772.37	
			<i>For Class 54 Rating, Add</i>	9,277.36	
			<i>For Class 55 Rating, Add</i>	13,814.06	
			<i>For Class 56 Rating, Add</i>	18,289.19	
40 05 19 00-3571	EA		42" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	66,633.87	2,330.29
			<i>For Class 52 Rating, Deduct</i>	-6,941.34	
			<i>For Class 54 Rating, Add</i>	9,507.84	
			<i>For Class 55 Rating, Add</i>	14,156.73	
			<i>For Class 56 Rating, Add</i>	18,742.52	

40 05 19 00-3572 48" Flanged End x Plain End (FxPE), Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe (40 05 19 00-3068)



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Ductile Iron Process Pipe	40 05 19

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3573 EA 48" Flanged x Plain End (FxPE), 1'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	18,059.87	2,784.90
<i>For Class 52 Rating, Deduct</i>	-1,522.43	
<i>For Class 54 Rating, Add</i>	2,126.68	
<i>For Class 55 Rating, Add</i>	3,187.66	
<i>For Class 56 Rating, Add</i>	4,234.80	
40 05 19 00-3574 EA 48" Flanged x Plain End (FxPE), 1'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	20,278.39	2,788.28
<i>For Class 52 Rating, Deduct</i>	-1,765.91	
<i>For Class 54 Rating, Add</i>	2,458.76	
<i>For Class 55 Rating, Add</i>	3,681.37	
<i>For Class 56 Rating, Add</i>	4,887.94	
40 05 19 00-3575 EA 48" Flanged x Plain End (FxPE), 2'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	22,504.59	2,791.65
<i>For Class 52 Rating, Deduct</i>	-2,010.23	
<i>For Class 54 Rating, Add</i>	2,791.98	
<i>For Class 55 Rating, Add</i>	4,176.80	
<i>For Class 56 Rating, Add</i>	5,543.35	
40 05 19 00-3576 EA 48" Flanged x Plain End (FxPE), 2'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	24,753.80	2,795.02
<i>For Class 52 Rating, Deduct</i>	-2,257.08	
<i>For Class 54 Rating, Add</i>	3,128.66	
<i>For Class 55 Rating, Add</i>	4,677.36	
<i>For Class 56 Rating, Add</i>	6,205.54	
40 05 19 00-3577 EA 48" Flanged x Plain End (FxPE), 3'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	26,997.88	2,798.37
<i>For Class 52 Rating, Deduct</i>	-2,503.37	
<i>For Class 54 Rating, Add</i>	3,464.57	
<i>For Class 55 Rating, Add</i>	5,176.77	
<i>For Class 56 Rating, Add</i>	6,866.22	
40 05 19 00-3578 EA 48" Flanged x Plain End (FxPE), 3'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	29,244.52	2,801.75
<i>For Class 52 Rating, Deduct</i>	-2,749.94	
<i>For Class 54 Rating, Add</i>	3,800.86	
<i>For Class 55 Rating, Add</i>	5,676.76	
<i>For Class 56 Rating, Add</i>	7,527.66	
40 05 19 00-3579 EA 48" Flanged x Plain End (FxPE), 4'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	31,506.50	2,805.12
<i>For Class 52 Rating, Deduct</i>	-2,998.20	
<i>For Class 54 Rating, Add</i>	4,139.45	
<i>For Class 55 Rating, Add</i>	6,180.17	
<i>For Class 56 Rating, Add</i>	8,193.62	
40 05 19 00-3580 EA 48" Flanged x Plain End (FxPE), 4'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	33,763.37	2,808.48
<i>For Class 52 Rating, Deduct</i>	-3,245.89	
<i>For Class 54 Rating, Add</i>	4,477.28	
<i>For Class 55 Rating, Add</i>	6,682.43	
<i>For Class 56 Rating, Add</i>	8,858.08	
40 05 19 00-3581 EA 48" Flanged x Plain End (FxPE), 5'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	36,015.13	2,811.85
<i>For Class 52 Rating, Deduct</i>	-3,493.02	
<i>For Class 54 Rating, Add</i>	4,814.34	
<i>For Class 55 Rating, Add</i>	7,183.56	
<i>For Class 56 Rating, Add</i>	9,521.02	
40 05 19 00-3582 EA 48" Flanged x Plain End (FxPE), 5'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	38,287.33	2,815.22
<i>For Class 52 Rating, Deduct</i>	-3,742.40	
<i>For Class 54 Rating, Add</i>	5,154.46	
<i>For Class 55 Rating, Add</i>	7,689.24	
<i>For Class 56 Rating, Add</i>	10,190.00	
40 05 19 00-3583 EA 48" Flanged x Plain End (FxPE), 6'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	40,549.31	2,818.59
<i>For Class 52 Rating, Deduct</i>	-3,990.66	
<i>For Class 54 Rating, Add</i>	5,493.06	
<i>For Class 55 Rating, Add</i>	8,192.65	
<i>For Class 56 Rating, Add</i>	10,855.97	
40 05 19 00-3584 EA 48" Flanged x Plain End (FxPE), 6'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	42,824.07	2,821.95
<i>For Class 52 Rating, Deduct</i>	-4,240.32	
<i>For Class 54 Rating, Add</i>	5,833.57	
<i>For Class 55 Rating, Add</i>	8,698.91	
<i>For Class 56 Rating, Add</i>	11,525.70	
40 05 19 00-3585 EA 48" Flanged x Plain End (FxPE), 7'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	45,083.49	2,825.32
<i>For Class 52 Rating, Deduct</i>	-4,488.30	
<i>For Class 54 Rating, Add</i>	6,171.78	
<i>For Class 55 Rating, Add</i>	9,201.74	
<i>For Class 56 Rating, Add</i>	12,190.91	
40 05 19 00-3586 EA 48" Flanged x Plain End (FxPE), 7'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal		
Coat, Ductile Iron Pipe.....	47,348.03	2,828.69
<i>For Class 52 Rating, Deduct</i>	-4,736.84	
<i>For Class 54 Rating, Add</i>	6,510.75	
<i>For Class 55 Rating, Add</i>	9,705.72	
<i>For Class 56 Rating, Add</i>	12,857.62	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3587	EA		48" Flanged x Plain End (FxPE), 8'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	49,625.34	2,832.06
			<i>For Class 52 Rating, Deduct</i>	-4,986.78	
			<i>For Class 54 Rating, Add</i>	6,851.64	
			<i>For Class 55 Rating, Add</i>	10,212.54	
			<i>For Class 56 Rating, Add</i>	13,528.11	
40 05 19 00-3588	EA		48" Flanged x Plain End (FxPE), 8'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	51,889.88	2,835.42
			<i>For Class 52 Rating, Deduct</i>	-5,235.32	
			<i>For Class 54 Rating, Add</i>	7,190.62	
			<i>For Class 55 Rating, Add</i>	10,716.52	
			<i>For Class 56 Rating, Add</i>	14,194.83	
40 05 19 00-3589	EA		48" Flanged x Plain End (FxPE), 9'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	54,154.41	2,838.79
			<i>For Class 52 Rating, Deduct</i>	-5,483.85	
			<i>For Class 54 Rating, Add</i>	7,529.60	
			<i>For Class 55 Rating, Add</i>	11,220.50	
			<i>For Class 56 Rating, Add</i>	14,861.54	
40 05 19 00-3590	EA		48" Flanged x Plain End (FxPE), 9'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	56,434.29	2,842.17
			<i>For Class 52 Rating, Deduct</i>	-5,734.08	
			<i>For Class 54 Rating, Add</i>	7,870.87	
			<i>For Class 55 Rating, Add</i>	11,727.89	
			<i>For Class 56 Rating, Add</i>	15,532.78	
40 05 19 00-3591	EA		48" Flanged x Plain End (FxPE), 10'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	58,701.38	2,845.52
			<i>For Class 52 Rating, Deduct</i>	-5,982.90	
			<i>For Class 54 Rating, Add</i>	8,210.23	
			<i>For Class 55 Rating, Add</i>	12,232.44	
			<i>For Class 56 Rating, Add</i>	16,200.25	
40 05 19 00-3592	EA		48" Flanged x Plain End (FxPE), 10'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	60,965.91	2,848.89
			<i>For Class 52 Rating, Deduct</i>	-6,231.44	
			<i>For Class 54 Rating, Add</i>	8,549.21	
			<i>For Class 55 Rating, Add</i>	12,736.41	
			<i>For Class 56 Rating, Add</i>	16,866.97	
40 05 19 00-3593	EA		48" Flanged x Plain End (FxPE), 11'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	63,250.89	2,852.26
			<i>For Class 52 Rating, Deduct</i>	-6,482.22	
			<i>For Class 54 Rating, Add</i>	8,891.25	
			<i>For Class 55 Rating, Add</i>	13,244.95	
			<i>For Class 56 Rating, Add</i>	17,539.72	
40 05 19 00-3594	EA		48" Flanged x Plain End (FxPE), 11'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	65,520.54	2,855.64
			<i>For Class 52 Rating, Deduct</i>	-6,731.32	
			<i>For Class 54 Rating, Add</i>	9,231.00	
			<i>For Class 55 Rating, Add</i>	13,750.07	
			<i>For Class 56 Rating, Add</i>	18,207.94	
40 05 19 00-3595	EA		48" Flanged x Plain End (FxPE), 12'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	67,787.64	2,858.99
			<i>For Class 52 Rating, Deduct</i>	-6,980.14	
			<i>For Class 54 Rating, Add</i>	9,570.36	
			<i>For Class 55 Rating, Add</i>	14,254.61	
			<i>For Class 56 Rating, Add</i>	18,875.42	
40 05 19 00-3596	EA		48" Flanged x Plain End (FxPE), 12'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	70,070.06	2,862.37
			<i>For Class 52 Rating, Deduct</i>	-7,230.65	
			<i>For Class 54 Rating, Add</i>	9,912.02	
			<i>For Class 55 Rating, Add</i>	14,762.58	
			<i>For Class 56 Rating, Add</i>	19,547.41	
40 05 19 00-3597	EA		48" Flanged x Plain End (FxPE), 13'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	72,339.71	2,865.73
			<i>For Class 52 Rating, Deduct</i>	-7,479.75	
			<i>For Class 54 Rating, Add</i>	10,251.76	
			<i>For Class 55 Rating, Add</i>	15,267.70	
			<i>For Class 56 Rating, Add</i>	20,215.63	
40 05 19 00-3598	EA		48" Flanged x Plain End (FxPE), 13'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	74,606.79	2,869.09
			<i>For Class 52 Rating, Deduct</i>	-7,728.56	
			<i>For Class 54 Rating, Add</i>	10,591.12	
			<i>For Class 55 Rating, Add</i>	15,772.24	
			<i>For Class 56 Rating, Add</i>	20,883.10	
40 05 19 00-3599	EA		48" Flanged x Plain End (FxPE), 14'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	76,891.78	2,872.46
			<i>For Class 52 Rating, Deduct</i>	-7,979.35	
			<i>For Class 54 Rating, Add</i>	10,933.16	
			<i>For Class 55 Rating, Add</i>	16,280.78	
			<i>For Class 56 Rating, Add</i>	21,555.85	
40 05 19 00-3600	EA		48" Flanged x Plain End (FxPE), 14'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	79,161.44	2,875.84
			<i>For Class 52 Rating, Deduct</i>	-8,228.45	
			<i>For Class 54 Rating, Add</i>	11,272.90	
			<i>For Class 55 Rating, Add</i>	16,785.89	
			<i>For Class 56 Rating, Add</i>	22,224.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3601 EA 48" Flanged x Plain End (FxPE), 15'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	81,162.71	2,879.20
<i>For Class 52 Rating, Deduct</i>	-8,448.03	
<i>For Class 54 Rating, Add</i>	11,572.39	
<i>For Class 55 Rating, Add</i>	17,231.16	
<i>For Class 56 Rating, Add</i>	22,813.13	
40 05 19 00-3602 EA 48" Flanged x Plain End (FxPE), 15'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	83,718.62	2,882.57
<i>For Class 52 Rating, Deduct</i>	-8,728.62	
<i>For Class 54 Rating, Add</i>	11,955.07	
<i>For Class 55 Rating, Add</i>	17,800.11	
<i>For Class 56 Rating, Add</i>	23,565.80	
40 05 19 00-3603 EA 48" Flanged x Plain End (FxPE), 16'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	85,985.71	2,885.93
<i>For Class 52 Rating, Deduct</i>	-8,977.44	
<i>For Class 54 Rating, Add</i>	12,294.43	
<i>For Class 55 Rating, Add</i>	18,304.66	
<i>For Class 56 Rating, Add</i>	24,233.27	
40 05 19 00-3604 EA 48" Flanged x Plain End (FxPE), 16'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	88,275.81	2,889.31
<i>For Class 52 Rating, Deduct</i>	-9,228.79	
<i>For Class 54 Rating, Add</i>	12,637.24	
<i>For Class 55 Rating, Add</i>	18,814.34	
<i>For Class 56 Rating, Add</i>	24,907.53	
40 05 19 00-3605 EA 48" Flanged x Plain End (FxPE), 17'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	90,542.90	2,892.66
<i>For Class 52 Rating, Deduct</i>	-9,477.61	
<i>For Class 54 Rating, Add</i>	12,976.60	
<i>For Class 55 Rating, Add</i>	19,318.88	
<i>For Class 56 Rating, Add</i>	25,575.00	
40 05 19 00-3606 EA 48" Flanged x Plain End (FxPE), 17'-6" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	92,809.99	2,896.04
<i>For Class 52 Rating, Deduct</i>	-9,726.43	
<i>For Class 54 Rating, Add</i>	13,315.96	
<i>For Class 55 Rating, Add</i>	19,823.43	
<i>For Class 56 Rating, Add</i>	26,242.47	
40 05 19 00-3607 EA 48" Flanged x Plain End (FxPE), 18'-0" Spool Length, Class 53, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Pipe.....	95,100.08	2,899.40
<i>For Class 52 Rating, Deduct</i>	-9,977.77	
<i>For Class 54 Rating, Add</i>	13,658.77	
<i>For Class 55 Rating, Add</i>	20,333.10	
<i>For Class 56 Rating, Add</i>	26,916.73	

**40 05 19 00-3608 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows** (40 05 19 00-2059)

40 05 19 00-3609 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	845.78	162.47
40 05 19 00-3610 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,233.53	207.76
40 05 19 00-3611 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	1,750.63	235.33
40 05 19 00-3612 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	2,494.43	298.34
40 05 19 00-3613 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,101.29	330.84
40 05 19 00-3614 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	3,796.25	359.39
40 05 19 00-3615 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	4,662.08	443.09
40 05 19 00-3616 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	5,844.42	531.71
40 05 19 00-3617 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	7,146.70	669.56
40 05 19 00-3618 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	10,594.82	758.17
40 05 19 00-3619 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	16,414.73	1,004.34
40 05 19 00-3620 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	24,285.20	1,137.26
40 05 19 00-3621 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	41,344.15	1,299.73
40 05 19 00-3622 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow.....	54,674.24	1,595.12

**40 05 19 00-3623 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbows** (40 05 19 00-2059)

40 05 19 00-3624 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	807.15	162.47
40 05 19 00-3625 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,169.71	207.76
40 05 19 00-3626 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	1,592.75	235.33
40 05 19 00-3627 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,269.37	298.34
40 05 19 00-3628 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	2,810.72	330.84
40 05 19 00-3629 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	3,270.53	359.39
40 05 19 00-3630 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	4,020.47	443.09
40 05 19 00-3631 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	5,112.11	531.71
40 05 19 00-3632 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	6,429.51	669.56
40 05 19 00-3633 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	8,423.10	758.17
40 05 19 00-3634 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	16,030.10	1,004.34
40 05 19 00-3635 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	23,771.24	1,137.26
40 05 19 00-3636 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	35,872.02	1,299.73
40 05 19 00-3637 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 45 Degree Elbow.....	48,481.56	1,595.12

**40 05 19 00-3638 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbows** (40 05 19 00-2059)

40 05 19 00-3639 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow.....	805.47	162.47
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**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3640 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	1,147.87	207.76
40 05 19 00-3641 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	1,579.31	235.33
40 05 19 00-3642 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	2,217.30	298.34
40 05 19 00-3643 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	2,926.61	330.84
40 05 19 00-3644 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	3,624.93	359.39
40 05 19 00-3645 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	4,101.09	443.09
40 05 19 00-3646 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	5,209.53	531.71
40 05 19 00-3647 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	6,847.73	669.56
40 05 19 00-3648 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	9,388.87	758.17
40 05 19 00-3649 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	16,201.42	1,004.34
40 05 19 00-3650 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	24,162.59	1,137.26
40 05 19 00-3651 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	36,653.03	1,299.73
40 05 19 00-3652 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 22-1/2 Degree Elbow .....	49,502.76	1,595.12
<b>40 05 19 00-3653 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron</b>		
<b>11-1/4 Degree Elbows (40 05 19 00-2059)</b>		
40 05 19 00-3654 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	870.97	162.47
40 05 19 00-3655 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	1,270.48	207.76
40 05 19 00-3656 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	1,629.70	235.33
40 05 19 00-3657 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	2,397.02	298.34
40 05 19 00-3658 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	3,260.85	330.84
40 05 19 00-3659 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	3,710.59	359.39
40 05 19 00-3660 EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	4,462.21	443.09
40 05 19 00-3661 EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	5,209.53	531.71
40 05 19 00-3662 EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	6,847.73	669.56
40 05 19 00-3663 EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	9,731.51	758.17
40 05 19 00-3664 EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	16,369.38	1,004.34
40 05 19 00-3665 EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	24,333.91	1,137.26
40 05 19 00-3666 EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	36,832.75	1,299.73
40 05 19 00-3667 EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 11-1/4 Degree Elbow .....	49,865.55	1,595.12
<b>40 05 19 00-3668 Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron</b>		
<b>Reducing 90 Degree Elbows (40 05 19 00-2059)</b>		
40 05 19 00-3669 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,197.53	185.12
40 05 19 00-3670 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,537.55	198.90
40 05 19 00-3671 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	1,670.95	221.55
40 05 19 00-3672 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,282.32	230.41
40 05 19 00-3673 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,328.40	253.05
40 05 19 00-3674 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,498.76	266.84
40 05 19 00-3675 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	2,724.95	269.80
40 05 19 00-3676 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,039.77	283.58
40 05 19 00-3677 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,186.59	315.09
40 05 19 00-3678 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,167.42	283.58
40 05 19 00-3679 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,433.52	297.36
40 05 19 00-3680 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,723.12	328.87
40 05 19 00-3681 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,044.09	345.61
40 05 19 00-3682 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,645.68	325.43
40 05 19 00-3683 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	3,863.07	339.21
40 05 19 00-3684 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,300.49	370.72
40 05 19 00-3685 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,622.39	386.96
40 05 19 00-3686 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,885.89	401.24
40 05 19 00-3687 EA 18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,231.81	369.73
40 05 19 00-3688 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,890.94	383.52
40 05 19 00-3689 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	4,984.03	415.03
40 05 19 00-3690 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	5,205.17	431.27
40 05 19 00-3691 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	5,569.43	445.55
40 05 19 00-3692 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	5,972.11	487.40
40 05 19 00-3693 EA 20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	5,286.89	438.66
40 05 19 00-3694 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	5,573.16	452.44
40 05 19 00-3695 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	6,674.01	483.96
40 05 19 00-3696 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	6,876.66	500.20
40 05 19 00-3697 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	7,487.83	514.48
40 05 19 00-3698 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	7,309.38	556.32
40 05 19 00-3699 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	7,690.60	600.63
40 05 19 00-3700 EA 24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	7,290.61	482.97
40 05 19 00-3701 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	7,571.83	496.75
40 05 19 00-3702 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	8,042.84	528.26
40 05 19 00-3703 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	8,383.22	544.51
40 05 19 00-3704 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	9,036.38	558.78
40 05 19 00-3705 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	9,627.17	600.63
40 05 19 00-3706 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	9,798.44	644.94
40 05 19 00-3707 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	10,259.60	637.81
40 05 19 00-3708 EA 30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	12,362.24	667.59
40 05 19 00-3709 EA 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	13,062.43	681.86
40 05 19 00-3710 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	14,780.23	723.71
40 05 19 00-3711 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	16,632.79	768.03
40 05 19 00-3712 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	22,229.51	836.95
40 05 19 00-3713 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	23,754.54	881.25





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3714	EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	21,497.13		903.41
40 05 19 00-3715	EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	23,479.01		947.72
40 05 19 00-3716	EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	24,626.23		1,070.80
40 05 19 00-3717	EA 42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	31,813.70		984.65
40 05 19 00-3718	EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	32,587.95		1,028.95
40 05 19 00-3719	EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	32,579.60		1,152.04
40 05 19 00-3720	EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	46,421.11		1,218.50
40 05 19 00-3721	EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	44,406.18		1,188.96
40 05 19 00-3722	EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	48,274.36		1,312.04
40 05 19 00-3723	EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	49,659.95		1,378.50
40 05 19 00-3724	EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing 90 Degree Elbow .....	61,563.75		1,459.74
<b>40 05 19 00-3725</b>	<b>Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbows <small>(40 05 19 00-2059)</small></b>			
40 05 19 00-3726	EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	988.54		162.47
40 05 19 00-3727	EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	1,545.94		207.76
40 05 19 00-3728	EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	2,281.38		235.33
40 05 19 00-3729	EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	3,179.71		298.34
40 05 19 00-3730	EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	4,431.53		330.84
40 05 19 00-3731	EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	5,190.31		359.39
40 05 19 00-3732	EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	6,612.10		443.09
40 05 19 00-3733	EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	8,091.72		531.71
40 05 19 00-3734	EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	10,796.47		669.56
40 05 19 00-3735	EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	15,704.16		758.17
40 05 19 00-3736	EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	27,138.98		1,004.34
40 05 19 00-3737	EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	41,019.05		1,137.26
40 05 19 00-3738	EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Long Radius 90 Degree Elbow .....	63,111.77		1,299.73
<b>40 05 19 00-3739</b>	<b>Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbows With Base <small>(40 05 19 00-2059)</small></b>			
40 05 19 00-3740	EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	1,035.57		162.47
40 05 19 00-3741	EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	1,453.56		207.76
40 05 19 00-3742	EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	2,343.53		235.33
40 05 19 00-3743	EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	3,132.68		298.34
40 05 19 00-3744	EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	4,174.56		330.84
40 05 19 00-3745	EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	4,943.41		359.39
40 05 19 00-3746	EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	6,025.91		443.09
40 05 19 00-3747	EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	7,460.20		531.71
40 05 19 00-3748	EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	9,635.87		669.56
40 05 19 00-3749	EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	13,493.81		758.17
40 05 19 00-3750	EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	21,725.63		1,004.34
40 05 19 00-3751	EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	30,872.59		1,137.26
40 05 19 00-3752	EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	54,221.65		1,299.73
40 05 19 00-3753	EA 48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron 90 Degree Elbow With Base .....	60,866.93		1,595.12
<b>40 05 19 00-3754</b>	<b>Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tees <small>(40 05 19 00-2059)</small></b>			
40 05 19 00-3755	EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	1,283.86		260.93
40 05 19 00-3756	EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	1,658.71		321.00
40 05 19 00-3757	EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	2,377.17		358.41
40 05 19 00-3758	EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	3,354.39		465.74
40 05 19 00-3759	EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	4,464.94		508.08
40 05 19 00-3760	EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	5,959.18		546.48
40 05 19 00-3761	EA 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	6,459.35		689.25
40 05 19 00-3762	EA 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	8,009.33		787.72
40 05 19 00-3763	EA 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	10,076.12		994.49
40 05 19 00-3764	EA 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	14,779.45		1,097.88
40 05 19 00-3765	EA 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	24,238.11		1,516.36
40 05 19 00-3766	EA 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	34,192.86		1,737.90
40 05 19 00-3767	EA 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Tee .....	72,785.48		2,008.67
<b>40 05 19 00-3768</b>	<b>Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tees <small>(40 05 19 00-2059)</small></b>			
40 05 19 00-3769	EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	1,699.62		291.46
40 05 19 00-3770	EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	2,188.94		297.36
40 05 19 00-3771	EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	2,161.65		334.78
40 05 19 00-3772	EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	2,903.48		328.87
40 05 19 00-3773	EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	2,837.56		366.29
40 05 19 00-3774	EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	2,959.02		389.92
40 05 19 00-3775	EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	3,693.06		345.61
40 05 19 00-3776	EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	3,655.70		383.02
40 05 19 00-3777	EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	3,815.79		406.65
40 05 19 00-3778	EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	4,402.63		482.47
40 05 19 00-3779	EA 14" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	5,264.22		359.39
40 05 19 00-3780	EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Reducing Tee .....	5,146.23		396.81





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 19 00-3858</b>		
<b>Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wyes <small>(40 05 19 00-2059)</small></b>		
40 05 19 00-3859 EA 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,137.73	260.93
40 05 19 00-3860 EA 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	1,646.95	321.00
40 05 19 00-3861 EA 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	2,415.80	358.41
40 05 19 00-3862 EA 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	3,183.07	465.74
40 05 19 00-3863 EA 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	4,777.35	508.08
40 05 19 00-3864 EA 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Wye	6,372.36	546.48
<b>40 05 19 00-3865</b>		
<b>Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Crosses <small>(40 05 19 00-2059)</small></b>		
40 05 19 00-3866 EA 4" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	1,466.64	359.39
40 05 19 00-3867 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,042.89	389.42
40 05 19 00-3868 EA 6" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,127.57	434.23
40 05 19 00-3869 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,618.62	395.82
40 05 19 00-3870 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,798.46	448.01
40 05 19 00-3871 EA 8" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	2,864.30	481.49
40 05 19 00-3872 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,423.86	427.34
40 05 19 00-3873 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,699.44	479.52
40 05 19 00-3874 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	3,995.38	513.00
40 05 19 00-3875 EA 10" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,810.60	633.13
40 05 19 00-3876 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,456.24	443.58
40 05 19 00-3877 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,632.73	495.77
40 05 19 00-3878 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	4,928.67	529.25
40 05 19 00-3879 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,794.27	649.37
40 05 19 00-3880 EA 12" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,448.98	685.31
40 05 19 00-3881 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,563.02	510.05
40 05 19 00-3882 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	5,858.96	543.52
40 05 19 00-3883 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,380.25	663.65
40 05 19 00-3884 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,878.11	699.59
40 05 19 00-3885 EA 14" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,171.45	733.56
40 05 19 00-3886 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,629.14	551.89
40 05 19 00-3887 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,972.12	585.37
40 05 19 00-3888 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,495.08	705.50
40 05 19 00-3889 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,039.98	741.44
40 05 19 00-3890 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,978.69	775.40
40 05 19 00-3891 EA 16" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,921.75	935.41
40 05 19 00-3892 EA 18" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	6,970.05	596.20
40 05 19 00-3893 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,313.03	629.69
40 05 19 00-3894 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	7,738.58	749.81
40 05 19 00-3895 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,283.48	785.75
40 05 19 00-3896 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,408.22	819.72
40 05 19 00-3897 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,092.38	979.72
40 05 19 00-3898 EA 18" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,479.92	1,043.73
40 05 19 00-3899 EA 20" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	8,947.24	665.13
40 05 19 00-3900 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,313.73	698.61
40 05 19 00-3901 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	9,705.68	818.73
40 05 19 00-3902 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,285.85	854.67
40 05 19 00-3903 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	10,444.82	888.64
40 05 19 00-3904 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,476.03	1,048.64
40 05 19 00-3905 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,887.08	1,112.65
40 05 19 00-3906 EA 20" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,937.73	1,319.42
40 05 19 00-3907 EA 24" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	11,789.07	709.44
40 05 19 00-3908 EA 24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,053.11	742.91
40 05 19 00-3909 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,601.27	863.04
40 05 19 00-3910 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	12,971.50	898.98
40 05 19 00-3911 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,180.84	932.95
40 05 19 00-3912 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	13,791.11	1,092.96
40 05 19 00-3913 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	17,625.19	1,156.95
40 05 19 00-3914 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	18,505.16	1,287.68
40 05 19 00-3915 EA 24" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	20,205.30	1,437.58
40 05 19 00-3916 EA 30" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,077.29	1,022.07
40 05 19 00-3917 EA 30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,184.19	1,056.03
40 05 19 00-3918 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	21,819.64	1,216.04
40 05 19 00-3919 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	22,032.50	1,280.04
40 05 19 00-3920 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	22,963.90	1,486.81
40 05 19 00-3921 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,559.04	1,560.66
40 05 19 00-3922 EA 30" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	33,141.48	2,028.37
40 05 19 00-3923 EA 36" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,481.88	1,300.22
40 05 19 00-3924 EA 36" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	29,525.90	1,329.27
40 05 19 00-3925 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,066.21	1,459.74
40 05 19 00-3926 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	30,266.57	1,518.81
40 05 19 00-3927 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	31,034.90	1,691.13
40 05 19 00-3928 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	32,037.54	1,757.59
40 05 19 00-3929 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	42,705.00	2,139.14
40 05 19 00-3930 EA 36" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	46,616.57	2,338.53
40 05 19 00-3931 EA 42" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross	43,780.81	1,363.73

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 19 Ductile Iron Process Pipe**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-3932 EA 42" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross .....	43,939.92	1,427.73
40 05 19 00-3933 EA 42" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross .....	44,827.64	1,634.51
40 05 19 00-3934 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross .....	45,896.91	1,708.36
40 05 19 00-3935 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross .....	59,105.14	2,176.06
40 05 19 00-3936 EA 42" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross .....	80,321.57	2,419.77
40 05 19 00-3937 EA 48" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross .....	59,610.37	1,794.51
40 05 19 00-3938 EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross .....	60,679.63	1,868.36
40 05 19 00-3939 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Cross .....	63,111.55	2,336.07

**40 05 19 00-3940 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducers** (40 05 19 00-2059)

40 05 19 00-3941 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,031.25	185.12
40 05 19 00-3942 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,362.87	198.90
40 05 19 00-3943 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,450.92	221.55
40 05 19 00-3944 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,810.35	230.41
40 05 19 00-3945 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	1,807.72	253.05
40 05 19 00-3946 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,025.79	266.84
40 05 19 00-3947 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,300.97	247.15
40 05 19 00-3948 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,340.32	269.80
40 05 19 00-3949 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,503.98	283.58
40 05 19 00-3950 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,723.03	315.09
40 05 19 00-3951 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	2,826.46	283.58
40 05 19 00-3952 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,043.85	297.36
40 05 19 00-3953 EA 14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,259.55	328.87
40 05 19 00-3954 EA 14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,170.70	345.61
40 05 19 00-3955 EA 16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,355.11	325.43
40 05 19 00-3956 EA 16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,204.67	339.21
40 05 19 00-3957 EA 16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,462.37	370.72
40 05 19 00-3958 EA 16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	3,869.93	386.96
40 05 19 00-3959 EA 16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,346.74	401.24
40 05 19 00-3960 EA 18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,057.86	383.52
40 05 19 00-3961 EA 18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,350.82	415.03
40 05 19 00-3962 EA 18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,313.30	431.27
40 05 19 00-3963 EA 18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,835.45	445.55
40 05 19 00-3964 EA 18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,796.39	487.40
40 05 19 00-3965 EA 20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	4,941.63	452.44
40 05 19 00-3966 EA 20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	5,251.38	483.96
40 05 19 00-3967 EA 20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	5,131.56	500.20
40 05 19 00-3968 EA 20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	5,772.96	514.48
40 05 19 00-3969 EA 20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	5,445.02	556.32
40 05 19 00-3970 EA 20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	6,484.64	600.63
40 05 19 00-3971 EA 24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	7,132.49	528.26
40 05 19 00-3972 EA 24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	7,702.98	544.51
40 05 19 00-3973 EA 24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	7,865.70	558.78
40 05 19 00-3974 EA 24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	7,055.71	600.63
40 05 19 00-3975 EA 24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	8,271.68	644.94
40 05 19 00-3976 EA 24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	8,680.77	637.81
40 05 19 00-3977 EA 30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	11,772.07	723.71
40 05 19 00-3978 EA 30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	12,180.17	768.03
40 05 19 00-3979 EA 30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	12,961.48	836.95
40 05 19 00-3980 EA 30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	14,153.95	881.25
40 05 19 00-3981 EA 36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	16,629.40	790.17
40 05 19 00-3982 EA 36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	16,874.57	834.49
40 05 19 00-3983 EA 36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	17,922.94	903.41
40 05 19 00-3984 EA 36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	18,858.43	947.72
40 05 19 00-3985 EA 36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	21,416.52	1,070.80
40 05 19 00-3986 EA 42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	26,079.50	1,028.95
40 05 19 00-3987 EA 42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	29,153.21	1,152.04
40 05 19 00-3988 EA 42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	32,680.31	1,218.50
40 05 19 00-3989 EA 48" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	34,508.30	1,188.96
40 05 19 00-3990 EA 48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	36,565.87	1,312.04
40 05 19 00-3991 EA 48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	40,574.99	1,378.50
40 05 19 00-3992 EA 48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Concentric Reducer .....	45,149.01	1,459.74

**40 05 19 00-3993 Flanged End x Flanged End, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducers** (40 05 19 00-2059)

40 05 19 00-3994 EA 6" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	1,100.11	185.12
40 05 19 00-3995 EA 8" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	1,441.81	198.90
40 05 19 00-3996 EA 8" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	1,571.86	221.55
40 05 19 00-3997 EA 10" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	1,810.35	230.41
40 05 19 00-3998 EA 10" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	1,891.70	253.05
40 05 19 00-3999 EA 10" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	2,107.41	266.84
40 05 19 00-4000 EA 12" x 4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	2,300.97	247.15
40 05 19 00-4001 EA 12" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	2,434.38	269.80
40 05 19 00-4002 EA 12" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	2,601.39	283.58
40 05 19 00-4003 EA 12" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	2,892.66	315.09
40 05 19 00-4004 EA 14" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	2,826.46	283.58
40 05 19 00-4005 EA 14" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	2,993.46	297.36



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4006	EA		14" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	3,236.04	328.87
40 05 19 00-4007	EA		14" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	3,604.04	345.61
40 05 19 00-4008	EA		16" x 6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	3,355.11	325.43
40 05 19 00-4009	EA		16" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	3,569.14	339.21
40 05 19 00-4010	EA		16" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	3,863.79	370.72
40 05 19 00-4011	EA		16" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	4,180.65	386.96
40 05 19 00-4012	EA		16" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	4,346.74	401.24
40 05 19 00-4013	EA		18" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	4,057.86	383.52
40 05 19 00-4014	EA		18" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	4,350.82	415.03
40 05 19 00-4015	EA		18" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	4,666.01	431.27
40 05 19 00-4016	EA		18" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	4,835.45	445.55
40 05 19 00-4017	EA		18" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	5,191.10	487.40
40 05 19 00-4018	EA		20" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	5,203.64	452.44
40 05 19 00-4019	EA		20" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	5,436.14	483.96
40 05 19 00-4020	EA		20" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	5,645.52	500.20
40 05 19 00-4021	EA		20" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	5,772.96	514.48
40 05 19 00-4022	EA		20" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	6,202.52	556.32
40 05 19 00-4023	EA		20" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	6,479.60	600.63
40 05 19 00-4024	EA		24" x 8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	7,316.53	496.75
40 05 19 00-4025	EA		24" x 10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	7,253.42	528.26
40 05 19 00-4026	EA		24" x 12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	7,383.86	544.51
40 05 19 00-4027	EA		24" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	7,509.62	558.78
40 05 19 00-4028	EA		24" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	7,940.86	600.63
40 05 19 00-4029	EA		24" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	8,271.68	644.94
40 05 19 00-4030	EA		24" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	8,680.77	637.81
40 05 19 00-4031	EA		30" x 14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	14,491.76	681.86
40 05 19 00-4032	EA		30" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	13,522.21	723.71
40 05 19 00-4033	EA		30" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	12,235.59	768.03
40 05 19 00-4034	EA		30" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	12,961.48	836.95
40 05 19 00-4035	EA		30" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	14,153.95	881.25
40 05 19 00-4036	EA		36" x 16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	15,648.52	790.17
40 05 19 00-4037	EA		36" x 18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	16,296.79	834.49
40 05 19 00-4038	EA		36" x 20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	17,246.06	903.41
40 05 19 00-4039	EA		36" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	18,799.64	947.72
40 05 19 00-4040	EA		36" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	21,713.81	1,070.80
40 05 19 00-4041	EA		42" x 24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	26,079.50	1,028.95
40 05 19 00-4042	EA		42" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	29,153.21	1,152.04
40 05 19 00-4043	EA		42" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	32,680.31	1,218.50
40 05 19 00-4044	EA		48" x 30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	36,565.87	1,312.04
40 05 19 00-4045	EA		48" x 36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	40,574.99	1,378.50
40 05 19 00-4046	EA		48" x 42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Eccentric Reducer .....	45,149.01	1,459.74
40 05 19 00-4047	<b>Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flanges</b> <small>(40 05 19 00-2059)</small>				
40 05 19 00-4048	EA		4" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	505.11	64.00
40 05 19 00-4049	EA		6" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	768.03	94.52
40 05 19 00-4050	EA		8" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,023.31	112.25
40 05 19 00-4051	EA		10" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,483.31	130.96
40 05 19 00-4052	EA		12" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	1,962.72	153.60
40 05 19 00-4053	EA		14" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	2,698.18	172.32
40 05 19 00-4054	EA		16" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	3,257.84	196.93
40 05 19 00-4055	EA		18" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	4,386.62	275.70
40 05 19 00-4056	EA		20" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	5,885.12	344.63
40 05 19 00-4057	EA		24" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	8,613.83	418.47
40 05 19 00-4058	EA		30" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	12,467.13	487.40
40 05 19 00-4059	EA		36" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	23,319.72	536.63
40 05 19 00-4060	EA		42" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	33,408.83	590.78
40 05 19 00-4061	EA		48" Flanged, Ceramic Epoxy Lined (P401), Bituminous Seal Coat, Ductile Iron Blind Flange.....	44,518.74	664.63
40 05 19 00-4062	<b>Ductile Iron Bolt Packs</b> <small>(40 05 19)</small>				
Note: Labor installation is included with pipe fittings or valves.					
40 05 19 00-4063	EA		4" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	44.25	
Note: Includes eight (8) 5/8" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add <span style="float: right;">12.39</span>					
For Hot Dip Galvanized, Add <span style="float: right;">17.70</span>					
40 05 19 00-4064	EA		6" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	68.27	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add <span style="float: right;">19.12</span>					
For Hot Dip Galvanized, Add <span style="float: right;">27.31</span>					
40 05 19 00-4065	EA		8" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	74.13	
Note: Includes eight (8) 3/4" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add <span style="float: right;">20.76</span>					
For Hot Dip Galvanized, Add <span style="float: right;">29.65</span>					
40 05 19 00-4066	EA		10" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	166.52	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.					
For Zinc Plated, Add <span style="float: right;">46.63</span>					
For Hot Dip Galvanized, Add <span style="float: right;">66.61</span>					

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 19 Ductile Iron Process Pipe**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 19 00-4067 EA 12" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	167.98	
Note: Includes twelve (12) 7/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	47.03	
For Hot Dip Galvanized, Add	67.19	
40 05 19 00-4068 EA 14" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	188.20	
Note: Includes twelve (12) 1" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	52.70	
For Hot Dip Galvanized, Add	75.28	
40 05 19 00-4069 EA 16" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	316.39	
Note: Includes sixteen (16) 1" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	88.59	
For Hot Dip Galvanized, Add	126.56	
40 05 19 00-4070 EA 18" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	459.63	
Note: Includes sixteen (16) 1-1/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	128.70	
For Hot Dip Galvanized, Add	183.85	
40 05 19 00-4071 EA 20" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	580.34	
Note: Includes twenty (20) 1-1/8" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	162.50	
For Hot Dip Galvanized, Add	232.14	
40 05 19 00-4072 EA 24" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	830.36	
Note: Includes twenty (20) 1-1/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	232.50	
For Hot Dip Galvanized, Add	332.14	
40 05 19 00-4073 EA 30" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,312.09	
Note: Includes twenty-eight (28) 1-1/4" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	367.39	
For Hot Dip Galvanized, Add	524.84	
40 05 19 00-4074 EA 36" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	1,871.73	
Note: Includes thirty-two (32) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	524.08	
For Hot Dip Galvanized, Add	748.69	
40 05 19 00-4075 EA 42" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,407.93	
Note: Includes thirty-six (36) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	674.22	
For Hot Dip Galvanized, Add	963.17	
40 05 19 00-4076 EA 48" Pipe Diameter, Ductile Iron Flange Bolt Pack.....	2,943.02	
Note: Includes forty-four (44) 1-1/2" diameter plain finish bolts with washers and nut.		
For Zinc Plated, Add	824.05	
For Hot Dip Galvanized, Add	1,177.21	
<b>40 05 19 00-4077 Full Face Flange Gaskets, ANSI/AWWA C115/A21.15</b> <small>(40 05 19)</small>		
Note: Labor installation is included with pipe fittings or valves.		
<b>40 05 19 00-4078 Full Face Flange Styrene Butadiene (SBR) Gaskets</b> <small>(40 05 19 00-4077)</small>		
40 05 19 00-4079 EA 4" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	9.01	
40 05 19 00-4080 EA 6" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	11.47	
40 05 19 00-4081 EA 8" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	15.56	
40 05 19 00-4082 EA 10" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	18.02	
40 05 19 00-4083 EA 12" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	19.66	
40 05 19 00-4084 EA 14" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	32.76	
40 05 19 00-4085 EA 16" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	40.13	
40 05 19 00-4086 EA 18" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	42.59	
40 05 19 00-4087 EA 20" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	65.52	
40 05 19 00-4088 EA 24" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	70.43	
40 05 19 00-4089 EA 30" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	90.91	
40 05 19 00-4090 EA 36" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	104.01	
40 05 19 00-4091 EA 42" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	111.38	
40 05 19 00-4092 EA 48" Full Face Flange Styrene Butadiene (SBR) Gasket, 1/8" Thick.....	122.03	
<b>40 05 19 00-4093 Full Face Flange Nitrile Buna-N (NBR) Gaskets</b> <small>(40 05 19 00-4077)</small>		
Note: (Acrylonitrile Butadiene)		
40 05 19 00-4094 EA 4" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	27.85	
40 05 19 00-4095 EA 6" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	39.31	
40 05 19 00-4096 EA 8" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	60.61	
40 05 19 00-4097 EA 10" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	66.34	
40 05 19 00-4098 EA 12" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	71.25	
40 05 19 00-4099 EA 14" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	134.32	
40 05 19 00-4100 EA 16" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	165.44	
40 05 19 00-4101 EA 18" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	166.26	
40 05 19 00-4102 EA 20" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	172.81	
40 05 19 00-4103 EA 24" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	182.64	
40 05 19 00-4104 EA 30" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	202.29	
40 05 19 00-4105 EA 36" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	222.77	
40 05 19 00-4106 EA 42" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	316.95	
40 05 19 00-4107 EA 48" Full Face Flange Nitrile (NBR) Gasket, 1/8" Thick.....	346.44	
<b>40 05 19 00-4108 Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gaskets</b> <small>(40 05 19 00-4077)</small>		
40 05 19 00-4109 EA 4" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	24.57	
40 05 19 00-4110 EA 6" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	31.94	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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40 05 19 00-4111	EA		8" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	43.41	
40 05 19 00-4112	EA		10" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	50.78	
40 05 19 00-4113	EA		12" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	56.51	
40 05 19 00-4114	EA		14" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	93.37	
40 05 19 00-4115	EA		16" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	112.20	
40 05 19 00-4116	EA		18" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	113.02	
40 05 19 00-4117	EA		20" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	115.48	
40 05 19 00-4118	EA		24" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	134.32	
40 05 19 00-4119	EA		30" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	164.62	
40 05 19 00-4120	EA		36" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	187.55	
40 05 19 00-4121	EA		42" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	268.63	
40 05 19 00-4122	EA		48" Full Face Flange Ethylene Propylene Diene Monomer (EPDM) Gasket, 1/8" Thick.....	296.48	

**40 05 19 00-4123 Full Face Flange Neoprene Gaskets (40 05 19 00-4077)**

Note: (Polychloroprene)

40 05 19 00-4124	EA		4" Full Face Flange Neoprene Gasket, 1/8" Thick.....	28.66	
40 05 19 00-4125	EA		6" Full Face Flange Neoprene Gasket, 1/8" Thick.....	40.13	
40 05 19 00-4126	EA		8" Full Face Flange Neoprene Gasket, 1/8" Thick.....	61.42	
40 05 19 00-4127	EA		10" Full Face Flange Neoprene Gasket, 1/8" Thick.....	66.34	
40 05 19 00-4128	EA		12" Full Face Flange Neoprene Gasket, 1/8" Thick.....	71.25	
40 05 19 00-4129	EA		14" Full Face Flange Neoprene Gasket, 1/8" Thick.....	95.00	
40 05 19 00-4130	EA		16" Full Face Flange Neoprene Gasket, 1/8" Thick.....	167.08	
40 05 19 00-4131	EA		18" Full Face Flange Neoprene Gasket, 1/8" Thick.....	167.90	
40 05 19 00-4132	EA		20" Full Face Flange Neoprene Gasket, 1/8" Thick.....	177.72	
40 05 19 00-4133	EA		24" Full Face Flange Neoprene Gasket, 1/8" Thick.....	180.18	
40 05 19 00-4134	EA		30" Full Face Flange Neoprene Gasket, 1/8" Thick.....	195.74	
40 05 19 00-4135	EA		36" Full Face Flange Neoprene Gasket, 1/8" Thick.....	220.31	
40 05 19 00-4136	EA		42" Full Face Flange Neoprene Gasket, 1/8" Thick.....	319.41	
40 05 19 00-4137	EA		48" Full Face Flange Neoprene Gasket, 1/8" Thick.....	349.71	

**40 05 19 00-4138 Full Face Flange FKM Gaskets (40 05 19 00-4077)**

Note: (Fluoroelastomer Fluorel Viton®)

40 05 19 00-4139	EA		4" Full Face Flange FKM Gasket, 1/8" Thick.....	118.95	
40 05 19 00-4140	EA		6" Full Face Flange FKM Gasket, 1/8" Thick.....	177.10	
40 05 19 00-4141	EA		8" Full Face Flange FKM Gasket, 1/8" Thick.....	236.58	
40 05 19 00-4142	EA		10" Full Face Flange FKM Gasket, 1/8" Thick.....	285.48	
40 05 19 00-4143	EA		12" Full Face Flange FKM Gasket, 1/8" Thick.....	371.38	
40 05 19 00-4144	EA		14" Full Face Flange FKM Gasket, 1/8" Thick.....	679.33	
40 05 19 00-4145	EA		16" Full Face Flange FKM Gasket, 1/8" Thick.....	778.45	
40 05 19 00-4146	EA		18" Full Face Flange FKM Gasket, 1/8" Thick.....	815.46	
40 05 19 00-4147	EA		20" Full Face Flange FKM Gasket, 1/8" Thick.....	869.65	
40 05 19 00-4148	EA		24" Full Face Flange FKM Gasket, 1/8" Thick.....	1,202.70	
40 05 19 00-4149	EA		30" Full Face Flange FKM Gasket, 1/8" Thick.....	1,441.92	
40 05 19 00-4150	EA		36" Full Face Flange FKM Gasket, 1/8" Thick.....	1,521.22	
40 05 19 00-4151	EA		42" Full Face Flange FKM Gasket, 1/8" Thick.....	1,896.57	
40 05 19 00-4152	EA		48" Full Face Flange FKM Gasket, 1/8" Thick.....	1,987.76	

**40 05 19 00-4153 Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100) (40 05 19)**

40 05 19 00-4154	EA		4" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	405.78	79.36
40 05 19 00-4155	EA		6" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	561.78	96.88
40 05 19 00-4156	EA		8" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	829.65	118.16
40 05 19 00-4157	EA		10" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	1,138.09	144.14
40 05 19 00-4158	EA		12" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	1,444.31	175.77
40 05 19 00-4159	EA		14" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	2,315.23	214.45
40 05 19 00-4160	EA		16" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	3,635.22	261.72
40 05 19 00-4161	EA		18" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	3,757.28	319.21
40 05 19 00-4162	EA		20" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	4,603.10	389.51
40 05 19 00-4163	EA		24" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	5,132.00	475.10
40 05 19 00-4164	EA		30" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	6,611.53	579.74
40 05 19 00-4165	EA		36" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	9,817.03	707.19
40 05 19 00-4166	EA		42" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	25,516.87	862.86
40 05 19 00-4167	EA		48" Restrained Flange Adapter For Ductile Iron Pipe (Megaflange 2100).....	32,589.38	1,052.62

**40 05 23 Stainless Steel Process Pipe and Tubing (40 05)**

**40 05 23 23 300- and 400-Series Stainless Steel Process Pipe (40 05 23)**

**40 05 23 23-0001 Schedule 40 Pipe, Type 304, With 150 LB Screwed Fittings Assembly (40 05 23)**

Note: Includes hangers and fittings. Fittings are assumed every 10'. Not for use where detail is available.

40 05 23 23-0002	LF		1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	44.11	12.55
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	4.91	
			For Work In Restricted Working Space, Add	7.57	
40 05 23 23-0003	LF		3/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly.....	49.77	14.39
			Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
			For Type 316, Add	5.15	
			For Work In Restricted Working Space, Add	8.99	

**40 Process Interconnections**  
**40 05 Common Work Results For Process Interconnections**  
**40 05 23 Stainless Steel Process Pipe and Tubing**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0004	LF		1" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	57.97 6.03 10.43	16.23
40 05 23 23-0005	LF		1-1/4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	66.72 7.61 11.23	19.60
40 05 23 23-0006	LF		1-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	73.68 8.72 12.04	20.16
40 05 23 23-0007	LF		2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	89.26 10.63 14.51	26.65
40 05 23 23-0008	LF		2-1/2" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	130.24 18.29 17.97	32.85
40 05 23 23-0009	LF		3" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Type 316, Add</i>	164.88 23.82 21.98	38.06
40 05 23 23-0010	LF		4" Stainless Steel Pipe, Schedule 40 Type 304 With 150 LB Screwed Fitting Assembly ..... Note: Includes all fittings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	224.90 27.89	38.06
40 05 23 23-0011			<b>Stainless Steel Tubing And Fittings</b> <small>(40 05 23 23)</small>		
40 05 23 23-0012			<b>Type 304 Tubing</b> <small>(40 05 23 23-0011)</small>		
40 05 23 23-0013			<b>0.035" Wall</b> <small>(40 05 23 23-0012)</small>		
40 05 23 23-0014	LF		1/4", 0.035" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	10.55 2.46	4.13
40 05 23 23-0015	LF		3/8", 0.035" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	12.29 2.96	4.90
40 05 23 23-0016	LF		1/2", 0.035" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	14.63 3.45	5.82
40 05 23 23-0017	LF		5/8", 0.035" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	22.66 3.95	6.59
40 05 23 23-0018	LF		3/4", 0.035" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	26.70 4.44	7.35
40 05 23 23-0019	LF		7/8", 0.035" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	29.56 4.94	8.28
40 05 23 23-0020	LF		1", 0.035" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	33.33 5.93	9.95
40 05 23 23-0021			<b>0.049" Wall</b> <small>(40 05 23 23-0012)</small>		
40 05 23 23-0022	LF		1/4", 0.049" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	16.76 2.96	4.90
40 05 23 23-0023	LF		3/8", 0.049" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	18.78 3.45	5.82
40 05 23 23-0024	LF		1/2", 0.049" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	22.45 3.95	6.59
40 05 23 23-0025	LF		5/8", 0.049" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	28.37 4.94	8.28
40 05 23 23-0026	LF		3/4", 0.049" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	32.65 5.93	9.95
40 05 23 23-0027	LF		7/8", 0.049" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	36.86 6.91	11.49
40 05 23 23-0028	LF		1", 0.049" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	42.44 7.85	13.02
40 05 23 23-0029			<b>0.065" Wall</b> <small>(40 05 23 23-0012)</small>		
40 05 23 23-0030	LF		1/4", 0.065" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	19.56 3.45	5.82
40 05 23 23-0031	LF		3/8", 0.065" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	22.50 3.95	6.59
40 05 23 23-0032	LF		1/2", 0.065" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	27.79 4.94	8.28
40 05 23 23-0033	LF		5/8", 0.065" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	32.76 5.93	9.95
40 05 23 23-0034	LF		3/4", 0.065" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	38.57 6.91	11.49
40 05 23 23-0035	LF		7/8", 0.065" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	44.26 7.85	13.02
40 05 23 23-0036	LF		1", 0.065" Wall, Type 304, Stainless Steel Tubing..... <i>For Work In Restricted Working Space, Add</i>	49.87 8.84	14.70





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0037				<b>Type 304 Tube Fittings</b> <small>(40 05 23 23-0011)</small>		
40 05 23 23-0038				<b>90 Degree Elbows</b> <small>(40 05 23 23-0037)</small>		
40 05 23 23-0039	EA			1/4", Type 304, Stainless Steel, 90 Degree Elbow .....	62.31	16.54
				<i>For Work In Restricted Working Space, Add</i> .....	9.88	
40 05 23 23-0040	EA			3/8", Type 304, Stainless Steel, 90 Degree Elbow .....	73.08	18.08
				<i>For Work In Restricted Working Space, Add</i> .....	10.81	
40 05 23 23-0041	EA			1/2", Type 304, Stainless Steel, 90 Degree Elbow .....	107.25	20.37
				<i>For Work In Restricted Working Space, Add</i> .....	12.25	
40 05 23 23-0042	EA			5/8", Type 304, Stainless Steel, 90 Degree Elbow .....	115.01	22.83
				<i>For Work In Restricted Working Space, Add</i> .....	13.72	
40 05 23 23-0043	EA			3/4", Type 304, Stainless Steel, 90 Degree Elbow .....	128.27	24.67
				<i>For Work In Restricted Working Space, Add</i> .....	14.82	
40 05 23 23-0044	EA			7/8", Type 304, Stainless Steel, 90 Degree Elbow .....	172.53	27.42
				<i>For Work In Restricted Working Space, Add</i> .....	16.41	
40 05 23 23-0045	EA			1", Type 304, Stainless Steel, 90 Degree Elbow .....	218.76	32.63
				<i>For Work In Restricted Working Space, Add</i> .....	19.55	
40 05 23 23-0046				<b>Union Tees</b> <small>(40 05 23 23-0037)</small>		
40 05 23 23-0047	EA			1/4", Type 304, Stainless Steel, Union Tee .....	98.26	24.67
				<i>For Work In Restricted Working Space, Add</i> .....	14.82	
40 05 23 23-0048	EA			3/8", Type 304, Stainless Steel, Union Tee .....	118.09	27.42
				<i>For Work In Restricted Working Space, Add</i> .....	16.41	
40 05 23 23-0049	EA			1/2", Type 304, Stainless Steel, Union Tee .....	158.50	30.64
				<i>For Work In Restricted Working Space, Add</i> .....	18.38	
40 05 23 23-0050	EA			5/8", Type 304, Stainless Steel, Union Tee .....	171.31	34.77
				<i>For Work In Restricted Working Space, Add</i> .....	20.89	
40 05 23 23-0051	EA			3/4", Type 304, Stainless Steel, Union Tee .....	215.85	37.37
				<i>For Work In Restricted Working Space, Add</i> .....	22.42	
40 05 23 23-0052	EA			7/8", Type 304, Stainless Steel, Union Tee .....	335.35	41.36
				<i>For Work In Restricted Working Space, Add</i> .....	24.84	
40 05 23 23-0053	EA			1", Type 304, Stainless Steel, Union Tee .....	401.82	49.48
				<i>For Work In Restricted Working Space, Add</i> .....	29.65	
40 05 23 23-0054				<b>Unions</b> <small>(40 05 23 23-0037)</small>		
40 05 23 23-0055	EA			1/4", Type 304, Stainless Steel, Union .....	94.37	24.67
				<i>For Work In Restricted Working Space, Add</i> .....	14.82	
40 05 23 23-0056	EA			3/8", Type 304, Stainless Steel, Union .....	120.28	27.42
				<i>For Work In Restricted Working Space, Add</i> .....	16.41	
40 05 23 23-0057	EA			1/2", Type 304, Stainless Steel, Union .....	159.94	30.64
				<i>For Work In Restricted Working Space, Add</i> .....	18.38	
40 05 23 23-0058	EA			5/8", Type 304, Stainless Steel, Union .....	193.88	34.77
				<i>For Work In Restricted Working Space, Add</i> .....	20.89	
40 05 23 23-0059	EA			3/4", Type 304, Stainless Steel, Union .....	229.58	37.37
				<i>For Work In Restricted Working Space, Add</i> .....	22.42	
40 05 23 23-0060	EA			7/8", Type 304, Stainless Steel, Union .....	346.31	41.36
				<i>For Work In Restricted Working Space, Add</i> .....	24.84	
40 05 23 23-0061	EA			1", Type 304, Stainless Steel, Union .....	370.77	49.48
				<i>For Work In Restricted Working Space, Add</i> .....	29.65	
40 05 23 23-0062				<b>Male Connectors</b> <small>(40 05 23 23-0037)</small>		
40 05 23 23-0063	EA			1/4" x 1/4", Type 304, Stainless Steel, Male Connection .....	48.40	16.54
				<i>For Work In Restricted Working Space, Add</i> .....	9.88	
40 05 23 23-0064	EA			3/8" x 3/8", Type 304, Stainless Steel, Male Connection .....	59.39	18.08
				<i>For Work In Restricted Working Space, Add</i> .....	10.81	
40 05 23 23-0065	EA			1/2" x 1/2", Type 304, Stainless Steel, Male Connection .....	75.79	20.37
				<i>For Work In Restricted Working Space, Add</i> .....	12.25	
40 05 23 23-0066	EA			5/8" x 5/8" Male Connection, Stainless Steel Type 304 .....	85.34	22.83
				<i>For Work In Restricted Working Space, Add</i> .....	13.72	
40 05 23 23-0067	EA			3/4" x 3/4", Type 304, Stainless Steel, Male Connection .....	101.91	24.67
				<i>For Work In Restricted Working Space, Add</i> .....	14.82	
40 05 23 23-0068	EA			7/8" x 7/8", Type 304, Stainless Steel, Male Connection .....	149.41	27.42
				<i>For Work In Restricted Working Space, Add</i> .....	16.41	
40 05 23 23-0069	EA			1" x 1", Type 304, Stainless Steel, Male Connection .....	158.10	32.63
				<i>For Work In Restricted Working Space, Add</i> .....	19.55	
40 05 23 23-0070				<b>Type 304 Valves</b> <small>(40 05 23 23-0011)</small>		
40 05 23 23-0071				<b>Gate Valves</b> <small>(40 05 23 23-0070)</small>		
40 05 23 23-0072	EA			1/4" Gate Valve, Stainless Steel Type 304 .....	241.96	24.67
				<i>For Work In Restricted Working Space, Add</i> .....	13.38	
40 05 23 23-0073	EA			3/8" Gate Valve, Stainless Steel Type 304 .....	402.82	28.95
				<i>For Work In Restricted Working Space, Add</i> .....	14.09	
40 05 23 23-0074	EA			1/2" Gate Valve, Stainless Steel Type 304 .....	421.05	32.63
				<i>For Work In Restricted Working Space, Add</i> .....	19.55	
40 05 23 23-0075	EA			3/4" Gate Valve, Stainless Steel Type 304 .....	467.18	37.37
				<i>For Work In Restricted Working Space, Add</i> .....	22.42	
40 05 23 23-0076	EA			1" Gate Valve, Stainless Steel Type 304 .....	434.10	49.48
				<i>For Work In Restricted Working Space, Add</i> .....	29.65	

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 23 23-0077 Globe Valves</b> (40 05 23 23-0070)		
40 05 23 23-0078 EA 1/4" Globe Valve, Stainless Steel Type 304 .....	245.19	24.67
<i>For Work In Restricted Working Space, Add</i>	13.38	
40 05 23 23-0079 EA 3/8" Globe Valve, Stainless Steel Type 304 .....	165.01	28.95
<i>For Work In Restricted Working Space, Add</i>	14.09	
40 05 23 23-0080 EA 1/2" Globe Valve, Stainless Steel Type 304 .....	293.14	32.63
<i>For Work In Restricted Working Space, Add</i>	19.55	
40 05 23 23-0081 EA 3/4" Globe Valve, Stainless Steel Type 304 .....	326.70	37.37
<i>For Work In Restricted Working Space, Add</i>	22.42	
40 05 23 23-0082 EA 1" Globe Valve, Stainless Steel Type 304 .....	474.81	49.48
<i>For Work In Restricted Working Space, Add</i>	29.65	
<b>40 05 23 23-0083 Check Valves</b> (40 05 23 23-0070)		
40 05 23 23-0084 EA 1/4" Check Valve, Stainless Steel Type 304 .....	340.22	24.67
<i>For Work In Restricted Working Space, Add</i>	13.38	
40 05 23 23-0085 EA 3/8" Check Valve, Stainless Steel Type 304 .....	342.57	28.95
<i>For Work In Restricted Working Space, Add</i>	14.09	
40 05 23 23-0086 EA 1/2" Check Valve, Stainless Steel Type 304 .....	230.42	32.63
<i>For Work In Restricted Working Space, Add</i>	19.55	
40 05 23 23-0087 EA 3/4" Check Valve, Stainless Steel Type 304 .....	242.36	37.37
<i>For Work In Restricted Working Space, Add</i>	22.42	
40 05 23 23-0088 EA 1" Check Valve, Stainless Steel Type 304 .....	271.25	49.48
<i>For Work In Restricted Working Space, Add</i>	29.65	
<b>40 05 23 23-0089 Plug Valves</b> (40 05 23 23-0070)		
40 05 23 23-0090 EA 1/2" Plug Valve, Stainless Steel Type 304 .....	525.57	32.63
<i>For Work In Restricted Working Space, Add</i>	19.55	
40 05 23 23-0091 EA 3/4" Plug Valve, Stainless Steel Type 304 .....	576.03	37.37
<i>For Work In Restricted Working Space, Add</i>	22.42	
40 05 23 23-0092 EA 1" Plug Valve, Stainless Steel Type 304 .....	654.69	49.48
<i>For Work In Restricted Working Space, Add</i>	29.65	
40 05 23 23-0093 EA 1-1/2" Plug Valve, Stainless Steel Type 304 .....	904.88	55.91
<i>For Work In Restricted Working Space, Add</i>	33.54	
40 05 23 23-0094 EA 2" Plug Valve, Stainless Steel Type 304 .....	1,179.65	76.59
<i>For Work In Restricted Working Space, Add</i>	45.95	
<b>40 05 23 23-0095 Type 316 Tubing</b> (40 05 23 23-0011)		
<b>40 05 23 23-0096 0.035" Wall</b> (40 05 23 23-0095)		
40 05 23 23-0097 LF 1/4" Stainless Steel Tubing, Type 316, 0.035" Wall .....	10.90	4.13
<i>For Work In Restricted Working Space, Add</i>	2.46	
40 05 23 23-0098 LF 3/8" Stainless Steel Tubing, Type 316, 0.035" Wall .....	14.03	4.90
<i>For Work In Restricted Working Space, Add</i>	2.96	
40 05 23 23-0099 LF 1/2" Stainless Steel Tubing, Type 316, 0.035" Wall .....	15.69	5.82
<i>For Work In Restricted Working Space, Add</i>	3.45	
40 05 23 23-0100 LF 5/8" Stainless Steel Tubing, Type 316, 0.035" Wall .....	25.46	6.59
<i>For Work In Restricted Working Space, Add</i>	3.95	
40 05 23 23-0101 LF 3/4" Stainless Steel Tubing, Type 316, 0.035" Wall .....	28.87	7.35
<i>For Work In Restricted Working Space, Add</i>	4.44	
40 05 23 23-0102 LF 7/8" Stainless Steel Tubing, Type 316, 0.035" Wall .....	36.26	8.28
<i>For Work In Restricted Working Space, Add</i>	4.94	
40 05 23 23-0103 LF 1" Stainless Steel Tubing, Type 316, 0.035" Wall .....	38.52	9.95
<i>For Work In Restricted Working Space, Add</i>	5.93	
<b>40 05 23 23-0104 0.049" Wall</b> (40 05 23 23-0095)		
40 05 23 23-0105 LF 1/4" Stainless Steel Tubing, Type 316, 0.049" Wall .....	18.26	4.90
<i>For Work In Restricted Working Space, Add</i>	2.96	
40 05 23 23-0106 LF 3/8" Stainless Steel Tubing, Type 316, 0.049" Wall .....	20.36	5.82
<i>For Work In Restricted Working Space, Add</i>	3.45	
40 05 23 23-0107 LF 1/2" Stainless Steel Tubing, Type 316, 0.049" Wall .....	23.93	6.59
<i>For Work In Restricted Working Space, Add</i>	3.95	
40 05 23 23-0108 LF 5/8" Stainless Steel Tubing, Type 316, 0.049" Wall .....	31.09	8.28
<i>For Work In Restricted Working Space, Add</i>	4.94	
40 05 23 23-0109 LF 3/4" Stainless Steel Tubing, Type 316, 0.049" Wall .....	36.04	9.95
<i>For Work In Restricted Working Space, Add</i>	5.93	
40 05 23 23-0110 LF 7/8" Stainless Steel Tubing, Type 316, 0.049" Wall .....	45.58	11.49
<i>For Work In Restricted Working Space, Add</i>	6.91	
40 05 23 23-0111 LF 1" Stainless Steel Tubing, Type 316, 0.049" Wall .....	47.02	13.02
<i>For Work In Restricted Working Space, Add</i>	7.85	
<b>40 05 23 23-0112 0.065" Wall</b> (40 05 23 23-0095)		
40 05 23 23-0113 LF 1/4" Stainless Steel Tubing, Type 316, 0.065" Wall .....	21.35	5.82
<i>For Work In Restricted Working Space, Add</i>	3.45	
40 05 23 23-0114 LF 3/8" Stainless Steel Tubing, Type 316, 0.065" Wall .....	23.87	6.59
<i>For Work In Restricted Working Space, Add</i>	3.95	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0115 LF 1/2" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	29.94 4.94	8.28
40 05 23 23-0116 LF 5/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	35.71 5.93	9.95
40 05 23 23-0117 LF 3/4" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	43.11 6.91	11.49
40 05 23 23-0118 LF 7/8" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	47.62 7.85	13.02
40 05 23 23-0119 LF 1" Stainless Steel Tubing, Type 316, 0.065" Wall..... <i>For Work In Restricted Working Space, Add</i>	55.30 8.84	14.70
<b>40 05 23 23-0120 Type 316 Tube Fittings</b> <small>(40 05 23 23-0011)</small>		
<b>40 05 23 23-0121 90 Degree Elbows</b> <small>(40 05 23 23-0120)</small>		
40 05 23 23-0122 EA 1/4" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	83.52 9.88	16.54
40 05 23 23-0123 EA 3/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	99.82 10.81	18.08
40 05 23 23-0124 EA 1/2" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	155.20 12.25	20.37
40 05 23 23-0125 EA 5/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	165.03 13.72	22.83
40 05 23 23-0126 EA 3/4" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	185.21 14.82	24.67
40 05 23 23-0127 EA 7/8" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	257.59 16.41	27.42
40 05 23 23-0128 EA 1" 90 Degree Elbow, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	329.64 19.55	32.63
<b>40 05 23 23-0129 Union Tees</b> <small>(40 05 23 23-0120)</small>		
40 05 23 23-0130 EA 1/4" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	133.53 14.82	24.67
40 05 23 23-0131 EA 3/8" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	163.85 16.41	27.42
40 05 23 23-0132 EA 1/2" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	228.70 18.38	30.64
40 05 23 23-0133 EA 5/8" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	244.73 20.89	34.77
40 05 23 23-0134 EA 3/4" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	317.73 22.42	37.37
40 05 23 23-0135 EA 7/8" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	517.68 24.84	41.36
40 05 23 23-0136 EA 1" Union Tee, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	620.58 29.65	49.48
<b>40 05 23 23-0137 Unions</b> <small>(40 05 23 23-0120)</small>		
40 05 23 23-0138 EA 1/4" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	89.00 14.82	24.67
40 05 23 23-0139 EA 3/8" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	112.44 16.41	27.42
40 05 23 23-0140 EA 1/2" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	148.15 18.38	30.64
40 05 23 23-0141 EA 5/8" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	179.03 20.89	34.77
40 05 23 23-0142 EA 3/4" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	211.07 22.42	37.37
40 05 23 23-0143 EA 7/8" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	314.81 24.84	41.36
40 05 23 23-0144 EA 1" Union, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	338.26 29.65	49.48
<b>40 05 23 23-0145 Male Connectors</b> <small>(40 05 23 23-0120)</small>		
40 05 23 23-0146 EA 1/4" x 1/4" Male Connector, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	59.33 9.88	16.54
40 05 23 23-0147 EA 3/8" x 3/8" Male Connector, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	75.90 10.81	18.08
40 05 23 23-0148 EA 1/2" x 1/2" Male Connector, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	100.49 12.25	20.37
40 05 23 23-0149 EA 5/8" x 5/8" Male Connector, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	113.35 13.72	22.83
40 05 23 23-0150 EA 3/4" x 3/4" Male Connector, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	139.03 14.82	24.67
40 05 23 23-0151 EA 7/8" x 7/8" Male Connector, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	216.35 16.41	27.42
40 05 23 23-0152 EA 1" x 1" Male Connector, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	223.80 19.55	32.63
<b>40 05 23 23-0153 Type 316 Valves</b> <small>(40 05 23 23-0011)</small>		

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 23 23-0154 Gate Valves</b> <small>(40 05 23 23-0153)</small>		
40 05 23 23-0155 EA 1/4" Gate Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	305.68 13.38	24.67
40 05 23 23-0156 EA 3/8" Gate Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	517.72 14.09	28.95
40 05 23 23-0157 EA 1/2" Gate Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	535.95 19.55	32.63
40 05 23 23-0158 EA 3/4" Gate Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	593.90 22.42	37.37
40 05 23 23-0159 EA 1" Gate Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	542.35 29.65	49.48
40 05 23 23-0160 EA 1-1/4" Gate Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	740.07 30.79	51.31
40 05 23 23-0161 EA 1-1/2" Gate Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	1,181.03 33.54	55.91
40 05 23 23-0162 EA 2" Gate Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	1,407.73 45.95	76.59
40 05 23 23-0163 EA 2-1/2" Gate Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	2,129.80 147.10	245.23
<b>40 05 23 23-0164 Globe Valves</b> <small>(40 05 23 23-0153)</small>		
40 05 23 23-0165 EA 1/4" Globe Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	309.96 13.38	24.67
40 05 23 23-0166 EA 3/8" Globe Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	203.14 14.09	28.95
40 05 23 23-0167 EA 1/2" Globe Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	366.75 19.55	32.63
40 05 23 23-0168 EA 3/4" Globe Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	408.06 22.42	37.37
40 05 23 23-0169 EA 1" Globe Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	596.20 29.65	49.48
40 05 23 23-0170 EA 1-1/4" Globe Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	741.37 30.56	51.01
40 05 23 23-0171 EA 1-1/2" Globe Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	1,223.80 33.54	55.91
40 05 23 23-0172 EA 2" Globe Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	1,450.50 45.95	76.59
40 05 23 23-0173 EA 2-1/2" Globe Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	1,858.93 147.10	245.23
<b>40 05 23 23-0174 Check Valves</b> <small>(40 05 23 23-0153)</small>		
40 05 23 23-0175 EA 1/4" Check Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	435.66 13.38	24.67
40 05 23 23-0176 EA 3/8" Check Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	438.01 14.09	28.95
40 05 23 23-0177 EA 1/2" Check Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	283.78 19.55	32.63
40 05 23 23-0178 EA 3/4" Check Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	296.48 22.42	37.37
40 05 23 23-0179 EA 1" Check Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	326.92 29.65	49.48
40 05 23 23-0180 EA 1-1/4" Check Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	447.35 30.79	51.31
40 05 23 23-0181 EA 1-1/2" Check Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	981.44 33.54	55.91
40 05 23 23-0182 EA 2" Check Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	1,193.89 45.95	76.59
40 05 23 23-0183 EA 2-1/2" Check Valve, Stainless Steel Type 316 ..... <i>For Work In Restricted Working Space, Add</i>	2,391.16 147.10	245.23
<b>40 05 23 23-0184 Diaphragm Valves, Ethylene Propylene Diene Monomer (EPDM) Lined</b> <small>(40 05 23 23-0153)</small>		
40 05 23 23-0185 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined ..... <i>For Work In Restricted Working Space, Add</i>	470.46 19.55	32.63
40 05 23 23-0186 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined ..... <i>For Work In Restricted Working Space, Add</i>	549.39 22.42	37.37
40 05 23 23-0187 EA 1" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined ..... <i>For Work In Restricted Working Space, Add</i>	701.18 29.65	49.48
40 05 23 23-0188 EA 1-1/2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined ..... <i>For Work In Restricted Working Space, Add</i>	1,111.12 33.54	55.91
40 05 23 23-0189 EA 2" Diaphragm Valve, Stainless Steel Type 316, Ethylene Propylene Diene Monomer (EPDM) Lined ..... <i>For Work In Restricted Working Space, Add</i>	1,552.22 45.95	76.59
<b>40 05 23 23-0190 Diaphragm Valves, Teflon Lined</b> <small>(40 05 23 23-0153)</small>		
40 05 23 23-0191 EA 1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined ..... <i>For Work In Restricted Working Space, Add</i>	620.35 19.55	32.63
40 05 23 23-0192 EA 3/4" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined ..... <i>For Work In Restricted Working Space, Add</i>	713.17 22.42	37.37



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0193	EA			1" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	864.96 29.65	49.48
40 05 23 23-0194	EA			1-1/2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	1,341.51 33.54	55.91
40 05 23 23-0195	EA			2" Diaphragm Valve, Stainless Steel Type 316, Teflon Lined..... <i>For Work In Restricted Working Space, Add</i>	1,827.02 45.95	76.59
<b>40 05 23 23-0196 Strainers</b> <small>(40 05 23 23-0153)</small>						
40 05 23 23-0197	EA			1/2" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	621.80 19.55	32.63
40 05 23 23-0198	EA			3/4" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	743.75 22.52	37.53
40 05 23 23-0199	EA			1" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	973.32 29.87	49.78
40 05 23 23-0200	EA			1-1/4" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,205.79 30.79	51.31
40 05 23 23-0201	EA			1-1/2" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,511.22 33.55	55.91
40 05 23 23-0202	EA			2" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,178.30 45.96	76.59
40 05 23 23-0203	EA			2-1/2" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	2,992.69 61.12	101.86
40 05 23 23-0204	EA			3" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	4,359.46 91.91	153.18
40 05 23 23-0205	EA			4" Strainer, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	5,593.14 147.04	245.08
<b>40 05 23 23-0206 Plug Valves</b> <small>(40 05 23 23-0153)</small>						
40 05 23 23-0207	EA			1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	662.03 19.55	32.63
40 05 23 23-0208	EA			3/4" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	724.62 22.42	37.37
40 05 23 23-0209	EA			1" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	819.46 29.65	49.48
40 05 23 23-0210	EA			1-1/2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,139.96 33.54	55.91
40 05 23 23-0211	EA			2" Plug Valve, Stainless Steel Type 316..... <i>For Work In Restricted Working Space, Add</i>	1,483.91 45.95	76.59
<b>40 05 23 23-0212 Cut And Prepare Existing Pipe In-Place</b> <small>(40 05 23 23-0011)</small>						
Note: For use when connecting pipe to an existing in-place system.						
40 05 23 23-0213	EA			Cut And Prepare 1/2" Stainless Steel Pipe.....	30.63	
40 05 23 23-0214	EA			Cut And Prepare 3/4" Stainless Steel Pipe.....	33.08	
40 05 23 23-0215	EA			Cut And Prepare 1" Stainless Steel Pipe.....	37.21	
40 05 23 23-0216	EA			Cut And Prepare 1-1/4" Stainless Steel Pipe.....	39.05	
40 05 23 23-0217	EA			Cut And Prepare 1-1/2" Stainless Steel Pipe.....	41.34	
40 05 23 23-0218	EA			Cut And Prepare 2" Stainless Steel Pipe.....	44.40	
40 05 23 23-0219	EA			Cut And Prepare 2-1/2" Stainless Steel Pipe.....	47.48	
40 05 23 23-0220	EA			Cut And Prepare 3" Stainless Steel Pipe.....	52.06	
40 05 23 23-0221	EA			Cut And Prepare 4" Stainless Steel Pipe.....	56.65	
40 05 23 23-0222	EA			Cut And Prepare 6" Stainless Steel Pipe.....	61.25	
40 05 23 23-0223	EA			Cut And Prepare 8" Stainless Steel Pipe.....	65.84	
40 05 23 23-0224	EA			Cut And Prepare 10" Stainless Steel Pipe.....	71.97	
40 05 23 23-0225	EA			Cut And Prepare 12" Stainless Steel Pipe.....	78.10	
40 05 23 23-0226	EA			Cut And Prepare 14" Stainless Steel Pipe.....	84.22	
40 05 23 23-0227	EA			Cut And Prepare 16" Stainless Steel Pipe.....	90.35	
40 05 23 23-0228	EA			Cut And Prepare 18" Stainless Steel Pipe.....	94.94	
40 05 23 23-0229	EA			Cut And Prepare 20" Stainless Steel Pipe.....	99.54	
40 05 23 23-0230	EA			Cut And Prepare 24" Stainless Steel Pipe.....	105.66	
<b>40 05 23 23-0231 Stainless Steel Pipe And Fittings</b> <small>(40 05 23 23)</small>						
<b>40 05 23 23-0232 Type 304, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings</b>						
<small>(40 05 23 23-0231)</small>						
<b>40 05 23 23-0233 Type 304, Schedule 40 Stainless Steel Threaded Pipe</b> <small>(40 05 23 23-0232)</small>						
40 05 23 23-0234	LF			1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	22.45 3.95	6.59
40 05 23 23-0235	LF			3/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	27.64 4.94	8.28
40 05 23 23-0236	LF			1" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	33.97 5.93	9.95
40 05 23 23-0237	LF			1-1/4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	40.78 6.91	11.49
40 05 23 23-0238	LF			1-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	47.16 7.85	13.02
40 05 23 23-0239	LF			2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	60.23 9.88	16.54
40 05 23 23-0240	LF			2-1/2" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting..... <i>For Work In Restricted Working Space, Add</i>	81.41 11.78	19.61

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0241 LF 3" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting ..... <i>For Work In Restricted Working Space, Add</i>	102.33 14.82	24.67
40 05 23 23-0242 LF 4" Pipe, Stainless Steel, Schedule 40 Type 304 For 150 LB Threaded Fitting ..... <i>For Work In Restricted Working Space, Add</i>	138.44 19.55	32.63
<b>40 05 23 23-0243 150#, Type 304 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0232)</b>		
40 05 23 23-0244 EA 1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	52.74 14.82	24.67
40 05 23 23-0245 EA 3/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	69.94 19.55	32.63
40 05 23 23-0246 EA 1", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	89.73 24.84	41.36
40 05 23 23-0247 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	125.31 34.04	56.68
40 05 23 23-0248 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	148.98 39.96	66.64
40 05 23 23-0249 EA 2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	181.27 48.37	80.57
40 05 23 23-0250 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	300.92 76.59	127.60
40 05 23 23-0251 EA 3", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	387.53 98.83	164.66
40 05 23 23-0252 EA 4", 150#, Type 304 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	521.88 122.54	204.19
<b>40 05 23 23-0253 150#, Type 304 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0232)</b>		
40 05 23 23-0254 EA 1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	53.51 14.82	24.67
40 05 23 23-0255 EA 3/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	71.18 19.55	32.63
40 05 23 23-0256 EA 1", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	90.12 24.84	41.36
40 05 23 23-0257 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	125.16 34.04	56.68
40 05 23 23-0258 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	147.15 39.96	66.64
40 05 23 23-0259 EA 2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	180.85 48.37	80.57
40 05 23 23-0260 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	309.23 76.59	127.60
40 05 23 23-0261 EA 3", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	403.74 98.83	164.66
40 05 23 23-0262 EA 4", 150#, Type 304 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	540.76 122.54	204.19
<b>40 05 23 23-0263 150#, Type 304 Stainless Steel Threaded Tees (40 05 23 23-0232)</b>		
40 05 23 23-0264 EA 1/2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	79.25 22.42	37.37
40 05 23 23-0265 EA 3/4", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	106.00 29.65	49.48
40 05 23 23-0266 EA 1", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	131.68 36.76	61.28
40 05 23 23-0267 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Tee ..... <i>For Work In Restricted Working Space, Add</i>	188.36 51.06	85.17
40 05 23 23-0268 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Tee ..... <i>For Work In Restricted Working Space, Add</i>	214.07 57.44	95.73
40 05 23 23-0269 EA 2", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	284.32 76.59	127.60
40 05 23 23-0270 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Tee ..... <i>For Work In Restricted Working Space, Add</i>	431.33 110.73	184.58
40 05 23 23-0271 EA 3", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	583.80 148.24	247.07
40 05 23 23-0272 EA 4", 150#, Type 304 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	774.68 183.81	306.36
<b>40 05 23 23-0273 150#, Type 304 Stainless Steel Threaded Reducers (40 05 23 23-0232)</b>		
40 05 23 23-0274 EA 3/4", 150#, Type 304 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	69.37 19.55	32.63
40 05 23 23-0275 EA 1", 150#, Type 304 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	88.51 24.84	41.36
40 05 23 23-0276 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	121.83 34.04	56.68
40 05 23 23-0277 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	145.25 39.96	66.64
40 05 23 23-0278 EA 2", 150#, Type 304 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	181.36 48.37	80.57
40 05 23 23-0279 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	298.46 76.59	127.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0280 EA 3", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	390.88 98.83	164.66
40 05 23 23-0281 EA 4", 150#, Type 304 Stainless Steel Threaded Reducer <i>For Work In Restricted Working Space, Add</i>	510.29 122.54	204.19
<b>40 05 23 23-0282 150#, Type 304 Stainless Steel Threaded Caps <small>(40 05 23 23-0232)</small></b>		
40 05 23 23-0283 EA 1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	26.93 7.41	12.41
40 05 23 23-0284 EA 3/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	35.72 9.88	16.54
40 05 23 23-0285 EA 1", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	45.00 12.25	20.37
40 05 23 23-0286 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	65.35 17.34	28.95
40 05 23 23-0287 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	75.07 19.55	32.63
40 05 23 23-0288 EA 2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	95.39 24.84	41.36
40 05 23 23-0289 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	145.28 36.76	61.28
40 05 23 23-0290 EA 3", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	192.68 48.37	80.57
40 05 23 23-0291 EA 4", 150#, Type 304 Stainless Steel Threaded Cap <i>For Work In Restricted Working Space, Add</i>	257.44 61.27	102.17
<b>40 05 23 23-0292 150#, Type 304 Stainless Steel Threaded Unions <small>(40 05 23 23-0232)</small></b>		
40 05 23 23-0293 EA 1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	84.07 22.42	37.37
40 05 23 23-0294 EA 3/4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	110.67 29.65	49.48
40 05 23 23-0295 EA 1", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	140.44 36.76	61.28
40 05 23 23-0296 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	201.24 51.06	85.17
40 05 23 23-0297 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	226.56 57.44	95.73
40 05 23 23-0298 EA 2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	297.33 76.59	127.60
40 05 23 23-0299 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	496.78 114.89	191.47
40 05 23 23-0300 EA 3", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	637.49 148.25	247.07
40 05 23 23-0301 EA 4", 150#, Type 304 Stainless Steel Threaded Union <i>For Work In Restricted Working Space, Add</i>	641.21 122.56	204.26
<b>40 05 23 23-0302 150#, Type 304 Stainless Steel Threaded Couplings <small>(40 05 23 23-0232)</small></b>		
40 05 23 23-0303 EA 1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	52.42 14.82	24.67
40 05 23 23-0304 EA 3/4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	69.52 19.55	32.63
40 05 23 23-0305 EA 1", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	89.39 24.84	41.36
40 05 23 23-0306 EA 1-1/4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	123.95 34.04	56.68
40 05 23 23-0307 EA 1-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	145.65 39.96	66.64
40 05 23 23-0308 EA 2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	178.80 48.37	80.57
40 05 23 23-0309 EA 2-1/2", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	293.83 76.59	127.60
40 05 23 23-0310 EA 3", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	379.22 98.83	164.66
40 05 23 23-0311 EA 4", 150#, Type 304 Stainless Steel Threaded Coupling <i>For Work In Restricted Working Space, Add</i>	485.88 122.54	204.19
<b>40 05 23 23-0312 Type 316, Schedule 40 Stainless Steel Pipe And 150 LB Threaded Fittings <small>(40 05 23 23-0231)</small></b>		
<b>40 05 23 23-0313 Type 316, Schedule 40 Stainless Steel Threaded Pipe <small>(40 05 23 23-0312)</small></b>		
40 05 23 23-0314 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	27.37 3.95	6.59
40 05 23 23-0315 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	32.49 4.94	8.28
40 05 23 23-0316 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	40.94 5.93	9.95
40 05 23 23-0317 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	49.89 6.91	11.49
40 05 23 23-0318 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting <i>For Work In Restricted Working Space, Add</i>	57.95 7.85	13.02

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0319 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting ..... <i>For Work In Restricted Working Space, Add</i>	74.68 9.88	16.54
40 05 23 23-0320 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting ..... <i>For Work In Restricted Working Space, Add</i>	101.60 11.78	19.61
40 05 23 23-0321 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting ..... <i>For Work In Restricted Working Space, Add</i>	132.45 14.82	24.67
40 05 23 23-0322 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For 150 LB Threaded Fitting ..... <i>For Work In Restricted Working Space, Add</i>	177.64 19.55	32.63
<b>40 05 23 23-0323 150#, Type 316 Stainless Steel Threaded 90 Degree Elbows (40 05 23 23-0312)</b>		
40 05 23 23-0324 EA 1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	53.75 14.82	24.67
40 05 23 23-0325 EA 3/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	71.44 19.55	32.63
40 05 23 23-0326 EA 1", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	90.65 24.84	41.36
40 05 23 23-0327 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	126.96 34.04	56.68
40 05 23 23-0328 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	151.18 39.96	66.64
40 05 23 23-0329 EA 2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	183.98 48.37	80.57
40 05 23 23-0330 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	305.25 76.59	127.60
40 05 23 23-0331 EA 3", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	398.15 98.83	164.66
40 05 23 23-0332 EA 4", 150#, Type 316 Stainless Steel Threaded 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	534.78 122.54	204.19
<b>40 05 23 23-0333 150#, Type 316 Stainless Steel Threaded 45 Degree Elbows (40 05 23 23-0312)</b>		
40 05 23 23-0334 EA 1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	54.56 14.82	24.67
40 05 23 23-0335 EA 3/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	71.95 19.55	32.63
40 05 23 23-0336 EA 1", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	91.25 24.84	41.36
40 05 23 23-0337 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	126.79 34.04	56.68
40 05 23 23-0338 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	149.05 39.96	66.64
40 05 23 23-0339 EA 2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	183.39 48.37	80.57
40 05 23 23-0340 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	313.30 76.59	127.60
40 05 23 23-0341 EA 3", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	413.14 98.83	164.66
40 05 23 23-0342 EA 4", 150#, Type 316 Stainless Steel Threaded 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	566.11 122.54	204.19
<b>40 05 23 23-0343 150#, Type 316 Stainless Steel Threaded Tees (40 05 23 23-0312)</b>		
40 05 23 23-0344 EA 1/2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	80.32 22.42	37.37
40 05 23 23-0345 EA 3/4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	107.08 29.65	49.48
40 05 23 23-0346 EA 1", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	132.90 36.76	61.28
40 05 23 23-0347 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Tee ..... <i>For Work In Restricted Working Space, Add</i>	190.84 51.06	85.17
40 05 23 23-0348 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Tee ..... <i>For Work In Restricted Working Space, Add</i>	216.52 57.44	95.73
40 05 23 23-0349 EA 2", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	287.55 76.59	127.60
40 05 23 23-0350 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Tee ..... <i>For Work In Restricted Working Space, Add</i>	444.51 110.73	184.58
40 05 23 23-0351 EA 3", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	601.76 148.24	247.07
40 05 23 23-0352 EA 4", 150#, Type 316 Stainless Steel Threaded Tee..... <i>For Work In Restricted Working Space, Add</i>	788.07 183.81	306.36
<b>40 05 23 23-0353 150#, Type 316 Stainless Steel Threaded Reducers (40 05 23 23-0312)</b>		
40 05 23 23-0354 EA 3/4", 150#, Type 316 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	70.28 19.55	32.63
40 05 23 23-0355 EA 1", 150#, Type 316 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	91.23 24.84	41.36
40 05 23 23-0356 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	122.34 34.04	56.68
40 05 23 23-0357 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	147.91 39.96	66.64





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0358 EA 2", 150#, Type 316 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	186.03 48.37	80.57
40 05 23 23-0359 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	309.10 76.59	127.60
40 05 23 23-0360 EA 3", 150#, Type 316 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	402.63 98.83	164.66
40 05 23 23-0361 EA 4", 150#, Type 316 Stainless Steel Threaded Reducer ..... <i>For Work In Restricted Working Space, Add</i>	529.87 122.54	204.19
<b>40 05 23 23-0362 150#, Type 316 Stainless Steel Threaded Caps (40 05 23 23-0312)</b>		
40 05 23 23-0363 EA 1/2", 150#, Type 316 Stainless Steel Threaded Cap ..... <i>For Work In Restricted Working Space, Add</i>	27.53 7.41	12.41
40 05 23 23-0364 EA 3/4", 150#, Type 316 Stainless Steel Threaded Cap ..... <i>For Work In Restricted Working Space, Add</i>	36.16 9.88	16.54
40 05 23 23-0365 EA 1", 150#, Type 316 Stainless Steel Threaded Cap ..... <i>For Work In Restricted Working Space, Add</i>	45.79 12.25	20.37
40 05 23 23-0366 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Cap ..... <i>For Work In Restricted Working Space, Add</i>	67.55 17.34	28.95
40 05 23 23-0367 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Cap ..... <i>For Work In Restricted Working Space, Add</i>	77.67 19.55	32.63
40 05 23 23-0368 EA 2", 150#, Type 316 Stainless Steel Threaded Cap ..... <i>For Work In Restricted Working Space, Add</i>	98.79 24.84	41.36
40 05 23 23-0369 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Cap ..... <i>For Work In Restricted Working Space, Add</i>	150.90 36.76	61.28
40 05 23 23-0370 EA 3", 150#, Type 316 Stainless Steel Threaded Cap ..... <i>For Work In Restricted Working Space, Add</i>	198.38 48.37	80.57
40 05 23 23-0371 EA 4", 150#, Type 316 Stainless Steel Threaded Cap ..... <i>For Work In Restricted Working Space, Add</i>	268.76 61.27	102.17
<b>40 05 23 23-0372 150#, Type 316 Stainless Steel Threaded Unions (40 05 23 23-0312)</b>		
40 05 23 23-0373 EA 1/2", 150#, Type 316 Stainless Steel Threaded Union ..... <i>For Work In Restricted Working Space, Add</i>	85.36 22.42	37.37
40 05 23 23-0374 EA 3/4", 150#, Type 316 Stainless Steel Threaded Union ..... <i>For Work In Restricted Working Space, Add</i>	115.52 29.65	49.48
40 05 23 23-0375 EA 1", 150#, Type 316 Stainless Steel Threaded Union ..... <i>For Work In Restricted Working Space, Add</i>	142.89 36.76	61.28
40 05 23 23-0376 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Union ..... <i>For Work In Restricted Working Space, Add</i>	205.41 51.06	85.17
40 05 23 23-0377 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Union ..... <i>For Work In Restricted Working Space, Add</i>	231.43 57.44	95.73
40 05 23 23-0378 EA 2", 150#, Type 316 Stainless Steel Threaded Union ..... <i>For Work In Restricted Working Space, Add</i>	302.97 76.59	127.60
40 05 23 23-0379 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Union ..... <i>For Work In Restricted Working Space, Add</i>	505.43 114.89	191.47
40 05 23 23-0380 EA 3", 150#, Type 316 Stainless Steel Threaded Union ..... <i>For Work In Restricted Working Space, Add</i>	664.45 148.25	247.07
40 05 23 23-0381 EA 4", 150#, Type 316 Stainless Steel Threaded Union ..... <i>For Work In Restricted Working Space, Add</i>	698.66 122.56	204.26
<b>40 05 23 23-0382 150#, Type 316 Stainless Steel Threaded Couplings (40 05 23 23-0312)</b>		
40 05 23 23-0383 EA 1/2", 150#, Type 316 Stainless Steel Threaded Coupling ..... <i>For Work In Restricted Working Space, Add</i>	54.45 14.82	24.67
40 05 23 23-0384 EA 3/4", 150#, Type 316 Stainless Steel Threaded Coupling ..... <i>For Work In Restricted Working Space, Add</i>	70.46 19.55	32.63
40 05 23 23-0385 EA 1", 150#, Type 316 Stainless Steel Threaded Coupling ..... <i>For Work In Restricted Working Space, Add</i>	90.29 24.84	41.36
40 05 23 23-0386 EA 1-1/4", 150#, Type 316 Stainless Steel Threaded Coupling ..... <i>For Work In Restricted Working Space, Add</i>	125.38 34.04	56.68
40 05 23 23-0387 EA 1-1/2", 150#, Type 316 Stainless Steel Threaded Coupling ..... <i>For Work In Restricted Working Space, Add</i>	147.36 39.96	66.64
40 05 23 23-0388 EA 2", 150#, Type 316 Stainless Steel Threaded Coupling ..... <i>For Work In Restricted Working Space, Add</i>	181.17 48.37	80.57
40 05 23 23-0389 EA 2-1/2", 150#, Type 316 Stainless Steel Threaded Coupling ..... <i>For Work In Restricted Working Space, Add</i>	302.11 76.59	127.60
40 05 23 23-0390 EA 3", 150#, Type 316 Stainless Steel Threaded Coupling ..... <i>For Work In Restricted Working Space, Add</i>	389.90 98.83	164.66
40 05 23 23-0391 EA 4", 150#, Type 316 Stainless Steel Threaded Coupling ..... <i>For Work In Restricted Working Space, Add</i>	501.89 122.54	204.19
<b>40 05 23 23-0392 Type 304, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>		
<b>40 05 23 23-0393 Type 304, Schedule 10 Stainless Steel Pipe (40 05 23 23-0392)</b>		
40 05 23 23-0394 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	24.88 3.85	6.42
40 05 23 23-0395 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	29.63 4.71	7.85
40 05 23 23-0396 LF 1" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	39.16 5.52	9.27

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0397 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	47.82	11.56
<i>For Work In Restricted Working Space, Add</i>	6.90	
40 05 23 23-0398 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	53.22	12.99
<i>For Work In Restricted Working Space, Add</i>	7.78	
40 05 23 23-0399 LF 2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	65.83	16.12
<i>For Work In Restricted Working Space, Add</i>	9.64	
40 05 23 23-0400 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	78.63	18.41
<i>For Work In Restricted Working Space, Add</i>	11.02	
40 05 23 23-0401 LF 3" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	92.71	20.69
<i>For Work In Restricted Working Space, Add</i>	12.41	
40 05 23 23-0402 LF 4" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	116.31	24.54
<i>For Work In Restricted Working Space, Add</i>	14.68	
40 05 23 23-0403 LF 6" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	169.44	32.24
<i>For Work In Restricted Working Space, Add</i>	19.28	
40 05 23 23-0404 LF 8" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	272.06	51.83
<i>For Work In Restricted Working Space, Add</i>	33.31	
40 05 23 23-0405 LF 10" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	348.89	56.99
<i>For Work In Restricted Working Space, Add</i>	36.64	
40 05 23 23-0406 LF 12" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	418.33	63.37
<i>For Work In Restricted Working Space, Add</i>	40.71	
40 05 23 23-0407 LF 14" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	515.69	71.23
<i>For Work In Restricted Working Space, Add</i>	45.80	
40 05 23 23-0408 LF 16" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	567.36	81.41
<i>For Work In Restricted Working Space, Add</i>	52.34	
40 05 23 23-0409 LF 18" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	635.11	94.98
<i>For Work In Restricted Working Space, Add</i>	61.06	
40 05 23 23-0410 LF 20" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	884.49	113.98
<i>For Work In Restricted Working Space, Add</i>	73.27	
40 05 23 23-0411 LF 24" Pipe, Stainless Steel Schedule 10 Type 304 For Welded Butt Fitting .....	1,154.46	142.48
<i>For Work In Restricted Working Space, Add</i>	91.59	
<b>40 05 23 23-0412 Type 304, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbow (40 05 23 23-0392)</b>		
40 05 23 23-0413 EA 1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	168.10	73.19
<i>For Work In Restricted Working Space, Add</i>	48.79	
40 05 23 23-0414 EA 3/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	178.11	77.69
<i>For Work In Restricted Working Space, Add</i>	51.80	
40 05 23 23-0415 EA 1", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	196.17	85.39
<i>For Work In Restricted Working Space, Add</i>	56.92	
40 05 23 23-0416 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	214.04	93.06
<i>For Work In Restricted Working Space, Add</i>	62.04	
40 05 23 23-0417 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	236.41	102.76
<i>For Work In Restricted Working Space, Add</i>	68.51	
40 05 23 23-0418 EA 2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	264.02	114.33
<i>For Work In Restricted Working Space, Add</i>	76.22	
40 05 23 23-0419 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	342.20	146.32
<i>For Work In Restricted Working Space, Add</i>	97.55	
40 05 23 23-0420 EA 3", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	401.35	171.50
<i>For Work In Restricted Working Space, Add</i>	114.33	
40 05 23 23-0421 EA 4", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	489.25	205.26
<i>For Work In Restricted Working Space, Add</i>	136.84	
40 05 23 23-0422 EA 6", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	658.54	256.41
<i>For Work In Restricted Working Space, Add</i>	170.95	
40 05 23 23-0423 EA 8", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	1,035.10	392.53
<i>For Work In Restricted Working Space, Add</i>	261.69	
40 05 23 23-0424 EA 10", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	1,512.29	523.36
<i>For Work In Restricted Working Space, Add</i>	348.91	
40 05 23 23-0425 EA 12", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	2,282.66	785.05
<i>For Work In Restricted Working Space, Add</i>	523.37	
40 05 23 23-0426 EA 14", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	2,695.76	915.90
<i>For Work In Restricted Working Space, Add</i>	610.60	
40 05 23 23-0427 EA 16", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	3,158.04	1,044.75
<i>For Work In Restricted Working Space, Add</i>	696.50	
40 05 23 23-0428 EA 18", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	3,988.05	1,308.43
<i>For Work In Restricted Working Space, Add</i>	872.28	
40 05 23 23-0429 EA 20", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	5,562.13	1,831.80
<i>For Work In Restricted Working Space, Add</i>	1,221.20	
40 05 23 23-0430 EA 24", Type 304, Schedule 10 Stainless Steel 90 Degree Elbow .....	7,981.23	2,616.85
<i>For Work In Restricted Working Space, Add</i>	1,744.56	
<b>40 05 23 23-0431 Type 304, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbow (40 05 23 23-0392)</b>		
40 05 23 23-0432 EA 1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....	169.71	73.19
<i>For Work In Restricted Working Space, Add</i>	48.79	
40 05 23 23-0433 EA 3/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....	179.72	77.69
<i>For Work In Restricted Working Space, Add</i>	51.80	
40 05 23 23-0434 EA 1", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....	198.10	85.39
<i>For Work In Restricted Working Space, Add</i>	56.92	
40 05 23 23-0435 EA 1-1/4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....	216.61	93.06
<i>For Work In Restricted Working Space, Add</i>	62.04	
40 05 23 23-0436 EA 1-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow .....	236.73	102.76
<i>For Work In Restricted Working Space, Add</i>	68.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0437 EA 2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	264.02 76.22	114.33
40 05 23 23-0438 EA 2-1/2", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	340.59 97.55	146.32
40 05 23 23-0439 EA 3", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	398.46 114.33	171.50
40 05 23 23-0440 EA 4", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	483.78 136.84	205.26
40 05 23 23-0441 EA 6", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	629.93 170.95	256.41
40 05 23 23-0442 EA 8", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	979.91 261.69	392.53
40 05 23 23-0443 EA 10", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,414.05 348.91	523.36
40 05 23 23-0444 EA 12", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,127.12 523.37	785.05
40 05 23 23-0445 EA 14", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,504.86 610.60	915.90
40 05 23 23-0446 EA 16", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,922.42 696.50	1,044.75
40 05 23 23-0447 EA 18", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,678.64 872.28	1,308.43
40 05 23 23-0448 EA 20", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,144.62 1,221.20	1,831.80
40 05 23 23-0449 EA 24", Type 304, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	7,388.96 1,744.56	2,616.85
<b>40 05 23 23-0450 Type 304, Schedule 10 Stainless Steel Butt Weld Tee</b> <small>(40 05 23 23-0392)</small>		
40 05 23 23-0451 EA 1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	224.41 62.02	93.03
40 05 23 23-0452 EA 3/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	271.46 76.13	114.21
40 05 23 23-0453 EA 1", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	302.82 85.54	128.31
40 05 23 23-0454 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	344.80 97.55	146.32
40 05 23 23-0455 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	366.72 104.71	157.07
40 05 23 23-0456 EA 2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	399.67 114.21	171.30
40 05 23 23-0457 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	509.66 136.84	205.26
40 05 23 23-0458 EA 3", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	606.36 171.49	257.24
40 05 23 23-0459 EA 4", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	693.63 192.47	288.71
40 05 23 23-0460 EA 6", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	993.96 256.63	384.93
40 05 23 23-0461 EA 8", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,489.73 348.91	523.36
40 05 23 23-0462 EA 10", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,282.66 523.37	785.05
40 05 23 23-0463 EA 12", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,928.14 654.21	981.31
40 05 23 23-0464 EA 14", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,595.15 786.18	1,179.27
40 05 23 23-0465 EA 16", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,357.43 959.05	1,438.58
40 05 23 23-0466 EA 18", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,544.98 1,221.20	1,831.80
40 05 23 23-0467 EA 20", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,405.49 1,606.84	2,410.26
40 05 23 23-0468 EA 24", Type 304, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	11,114.30 2,442.39	3,663.59
<b>40 05 23 23-0469 Type 304, Schedule 10 Stainless Steel Butt Weld Reducing Tees</b> <small>(40 05 23 23-0392)</small>		
40 05 23 23-0470 EA 3/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	204.22 51.82	77.72
40 05 23 23-0471 EA 1", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	243.15 63.50	95.24
40 05 23 23-0472 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	295.32 71.34	107.01
40 05 23 23-0473 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	310.64 81.33	121.99
40 05 23 23-0474 EA 2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	326.99 87.39	131.08
40 05 23 23-0475 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	414.23 95.24	142.86
40 05 23 23-0476 EA 3", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	489.19 114.16	171.23
40 05 23 23-0477 EA 4", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	604.19 142.68	214.03

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0478 EA 6", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	780.67 163.03	244.55
40 05 23 23-0479 EA 8", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,354.55 218.07	327.10
40 05 23 23-0480 EA 10", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,207.54 290.76	436.14
40 05 23 23-0481 EA 12", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,161.86 436.14	654.21
40 05 23 23-0482 EA 14", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,834.24 523.97	785.96
40 05 23 23-0483 EA 16", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,745.06 639.15	958.72
40 05 23 23-0484 EA 18", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,123.28 814.13	1,221.19
40 05 23 23-0485 EA 20", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	8,676.59 1,071.23	1,606.84
40 05 23 23-0486 EA 24", Type 304, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	13,554.72 1,626.82	2,440.22
<b>40 05 23 23-0487 Type 304, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0392)</b>		
40 05 23 23-0488 EA 3/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	168.00 47.12	70.68
40 05 23 23-0489 EA 1", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	184.66 51.35	77.02
40 05 23 23-0490 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	204.70 56.92	85.39
40 05 23 23-0491 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	218.68 62.04	93.06
40 05 23 23-0492 EA 2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	238.98 68.51	102.76
40 05 23 23-0493 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	316.87 85.61	128.42
40 05 23 23-0494 EA 3", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	358.63 97.46	146.20
40 05 23 23-0495 EA 4", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	419.33 114.21	171.30
40 05 23 23-0496 EA 6", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	539.94 145.40	218.09
40 05 23 23-0497 EA 8", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	786.63 209.35	314.03
40 05 23 23-0498 EA 10", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	999.00 261.69	392.53
40 05 23 23-0499 EA 12", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,342.53 348.91	523.36
40 05 23 23-0500 EA 14", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,899.80 457.95	686.93
40 05 23 23-0501 EA 16", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,216.63 521.88	782.81
40 05 23 23-0502 EA 18", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,733.04 654.21	981.31
40 05 23 23-0503 EA 20", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,820.08 872.28	1,308.43
40 05 23 23-0504 EA 24", Type 304, Schedule 10 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,526.66 1,308.43	1,962.64
40 05 23 23-0505 EA 3/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	198.22 47.12	70.68
40 05 23 23-0506 EA 1", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	206.84 51.35	77.02
40 05 23 23-0507 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	219.90 56.92	85.39
40 05 23 23-0508 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	246.33 62.04	93.06
40 05 23 23-0509 EA 2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	258.91 68.51	102.76
40 05 23 23-0510 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	338.73 85.61	128.42
40 05 23 23-0511 EA 3", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	380.17 97.46	146.20
40 05 23 23-0512 EA 4", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	435.99 114.21	171.30
40 05 23 23-0513 EA 6", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	600.05 145.40	218.09
40 05 23 23-0514 EA 8", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	915.49 209.35	314.03
40 05 23 23-0515 EA 10", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,250.35 261.69	392.53
40 05 23 23-0516 EA 12", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,574.77 348.91	523.36
40 05 23 23-0517 EA 14", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,435.57 457.95	686.93
40 05 23 23-0518 EA 16", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,830.54 521.88	782.81



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	<b>40 05</b>
<b>Stainless Steel Process Pipe and Tubing</b>	<b>40 05 23</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0519 EA 18", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,482.29 654.21	981.31
40 05 23 23-0520 EA 20", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,020.72 872.28	1,308.43
40 05 23 23-0521 EA 24", Type 304, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	7,117.89 1,308.43	1,962.64
<b>40 05 23 23-0522 Type 304, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0392)</b>		
40 05 23 23-0523 EA 1/2", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	91.29 24.40	36.60
40 05 23 23-0524 EA 3/4", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	99.82 25.90	38.84
40 05 23 23-0525 EA 1", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	109.66 28.46	42.69
40 05 23 23-0526 EA 1-1/4", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	120.60 31.02	46.53
40 05 23 23-0527 EA 1-1/2", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	129.94 34.26	51.38
40 05 23 23-0528 EA 2", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	140.85 38.11	57.16
40 05 23 23-0529 EA 2-1/2", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	182.52 48.78	73.16
40 05 23 23-0530 EA 3", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	207.60 57.17	85.75
40 05 23 23-0531 EA 4", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	249.94 68.42	102.64
40 05 23 23-0532 EA 6", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	321.05 85.61	128.42
40 05 23 23-0533 EA 8", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	500.37 130.84	196.26
40 05 23 23-0534 EA 10", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	666.38 174.46	261.69
40 05 23 23-0535 EA 12", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	982.87 261.69	392.52
40 05 23 23-0536 EA 14", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	1,153.19 305.30	457.94
40 05 23 23-0537 EA 16", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	1,335.62 348.25	522.37
40 05 23 23-0538 EA 18", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	1,685.98 436.14	654.21
40 05 23 23-0539 EA 20", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	2,330.52 610.60	915.90
40 05 23 23-0540 EA 24", Type 304, Schedule 10 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	3,427.76 872.28	1,308.42
<b>40 05 23 23-0541 Type 304, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>		
<b>40 05 23 23-0542 Type 304, Schedule 40 Stainless Steel Pipe (40 05 23 23-0541)</b>		
40 05 23 23-0543 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	27.83 3.85	6.42
40 05 23 23-0544 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	33.82 4.71	7.85
40 05 23 23-0545 LF 1" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	41.42 5.52	9.27
40 05 23 23-0546 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	51.77 6.90	11.42
40 05 23 23-0547 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	59.63 7.78	12.84
40 05 23 23-0548 LF 2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	76.39 9.64	16.41
40 05 23 23-0549 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	94.74 11.02	18.55
40 05 23 23-0550 LF 3" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	92.42 12.41	20.69
40 05 23 23-0551 LF 4" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	152.22 14.68	24.25
40 05 23 23-0552 LF 6" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	236.81 19.28	32.10
40 05 23 23-0553 LF 8" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	406.81 33.31	51.56
40 05 23 23-0554 LF 10" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	516.51 36.64	56.99
40 05 23 23-0555 LF 12" Pipe, Stainless Steel Schedule 40 Type 304 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	645.11 40.71	63.09
<b>40 05 23 23-0556 Type 304, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0541)</b>		
40 05 23 23-0557 EA 1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	169.39 48.79	73.19
40 05 23 23-0558 EA 3/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	179.40 51.80	77.69

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0559 EA 1", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	197.13 56.92	85.39
40 05 23 23-0560 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	214.74 62.04	93.06
40 05 23 23-0561 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	237.05 68.51	102.76
40 05 23 23-0562 EA 2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	266.28 76.22	114.33
40 05 23 23-0563 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	350.55 97.55	146.32
40 05 23 23-0564 EA 3", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	413.57 114.33	171.50
40 05 23 23-0565 EA 4", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	509.82 136.84	205.26
40 05 23 23-0566 EA 6", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	790.01 170.95	256.41
40 05 23 23-0567 EA 8", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,214.25 261.69	392.53
40 05 23 23-0568 EA 10", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,875.77 348.91	523.36
40 05 23 23-0569 EA 12", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,754.10 523.37	785.05
40 05 23 23-0570 EA 14", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,267.69 610.60	915.90
40 05 23 23-0571 EA 16", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,892.76 696.50	1,044.75
40 05 23 23-0572 EA 18", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,008.93 872.28	1,308.43
40 05 23 23-0573 EA 20", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	6,822.17 1,221.20	1,831.80
40 05 23 23-0574 EA 24", Type 304, Schedule 40 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	9,778.88 1,744.56	2,616.85
<b>40 05 23 23-0575 Type 304, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows</b> <small>(40 05 23 23-0541)</small>		
40 05 23 23-0576 EA 1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	171.64 48.79	73.19
40 05 23 23-0577 EA 3/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	181.65 51.80	77.69
40 05 23 23-0578 EA 1", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	198.74 56.92	85.39
40 05 23 23-0579 EA 1-1/4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	216.37 62.04	93.06
40 05 23 23-0580 EA 1-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	238.66 68.51	102.76
40 05 23 23-0581 EA 2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	266.62 76.22	114.33
40 05 23 23-0582 EA 2-1/2", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	350.55 97.55	146.32
40 05 23 23-0583 EA 3", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	404.57 114.33	171.50
40 05 23 23-0584 EA 4", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	514.64 136.84	205.26
40 05 23 23-0585 EA 6", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	680.40 170.95	256.41
40 05 23 23-0586 EA 8", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,099.33 261.69	392.53
40 05 23 23-0587 EA 10", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,588.68 348.91	523.36
40 05 23 23-0588 EA 12", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,330.58 523.37	785.05
40 05 23 23-0589 EA 14", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,648.34 610.60	915.90
40 05 23 23-0590 EA 16", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,155.34 696.50	1,044.75
40 05 23 23-0591 EA 18", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,980.15 872.28	1,308.43
40 05 23 23-0592 EA 20", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,433.99 1,221.20	1,831.80
40 05 23 23-0593 EA 24", Type 304, Schedule 40 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	7,880.29 1,744.56	2,616.85
<b>40 05 23 23-0594 Type 304, Schedule 40 Stainless Steel Butt Weld Tees</b> <small>(40 05 23 23-0541)</small>		
40 05 23 23-0595 EA 1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	225.70 62.02	93.03
40 05 23 23-0596 EA 3/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	272.75 76.13	114.21
40 05 23 23-0597 EA 1", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	304.11 85.54	128.31
40 05 23 23-0598 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	348.07 97.55	146.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0599 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	368.01 104.71	157.07
40 05 23 23-0600 EA 2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	401.27 114.21	171.30
40 05 23 23-0601 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	514.00 136.84	205.26
40 05 23 23-0602 EA 3", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	613.11 171.49	257.24
40 05 23 23-0603 EA 4", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	701.03 192.47	288.71
40 05 23 23-0604 EA 6", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,045.07 256.63	384.93
40 05 23 23-0605 EA 8", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,641.43 348.91	523.36
40 05 23 23-0606 EA 10", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,748.22 523.37	785.05
40 05 23 23-0607 EA 12", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,419.03 654.21	981.31
40 05 23 23-0608 EA 14", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,584.31 786.18	1,179.27
40 05 23 23-0609 EA 16", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	5,801.53 959.05	1,438.58
40 05 23 23-0610 EA 18", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	7,505.72 1,221.20	1,831.80
40 05 23 23-0611 EA 20", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	9,705.40 1,606.84	2,410.26
40 05 23 23-0612 EA 24", Type 304, Schedule 40 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	14,849.62 2,442.39	3,663.59
<b>40 05 23 23-0613 Type 304, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0541)</b>		
40 05 23 23-0614 EA 3/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	208.40 51.82	77.72
40 05 23 23-0615 EA 1", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	247.33 63.50	95.24
40 05 23 23-0616 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	315.42 71.34	107.01
40 05 23 23-0617 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	316.75 81.33	121.99
40 05 23 23-0618 EA 2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	326.99 87.39	131.08
40 05 23 23-0619 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	393.68 95.24	142.86
40 05 23 23-0620 EA 3", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	443.86 114.16	171.23
40 05 23 23-0621 EA 4", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	580.40 142.68	214.03
40 05 23 23-0622 EA 6", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	784.52 163.03	244.55
40 05 23 23-0623 EA 8", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,218.12 218.07	327.10
40 05 23 23-0624 EA 10", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,250.23 290.76	436.14
40 05 23 23-0625 EA 12", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,247.26 436.14	654.21
40 05 23 23-0626 EA 14", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,714.41 523.97	785.96
40 05 23 23-0627 EA 16", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,594.99 639.15	958.72
40 05 23 23-0628 EA 18", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,927.58 814.13	1,221.19
40 05 23 23-0629 EA 20", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	8,383.52 1,071.23	1,606.84
40 05 23 23-0630 EA 24", Type 304, Schedule 40 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	13,087.95 1,626.82	2,440.22
<b>40 05 23 23-0631 Type 304, Schedule 40 Stainless Steel Butt Weld Reducers (40 05 23 23-0541)</b>		
40 05 23 23-0632 EA 3/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	171.21 47.12	70.68
40 05 23 23-0633 EA 1", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	187.88 51.35	77.02
40 05 23 23-0634 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	204.94 56.92	85.39
40 05 23 23-0635 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	221.90 62.04	93.06
40 05 23 23-0636 EA 2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	240.91 68.51	102.76
40 05 23 23-0637 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	316.87 85.61	128.42
40 05 23 23-0638 EA 3", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	347.06 97.46	146.20
40 05 23 23-0639 EA 4", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	402.88 114.21	171.30

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0640 EA 6", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	542.51 145.40	218.09
40 05 23 23-0641 EA 8", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	841.22 209.35	314.03
40 05 23 23-0642 EA 10", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,092.74 261.69	392.53
40 05 23 23-0643 EA 12", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,426.18 348.91	523.36
40 05 23 23-0644 EA 14", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,087.55 457.95	686.93
40 05 23 23-0645 EA 16", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,452.65 521.88	782.81
40 05 23 23-0646 EA 18", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,210.99 654.21	981.31
40 05 23 23-0647 EA 20", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,383.86 872.28	1,308.43
40 05 23 23-0648 EA 24", Type 304, Schedule 40 Stainless Steel Concentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	6,110.51 1,308.43	1,962.64
40 05 23 23-0649 EA 3/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	199.52 47.12	70.68
40 05 23 23-0650 EA 1", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	213.59 51.35	77.02
40 05 23 23-0651 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	243.04 56.92	85.39
40 05 23 23-0652 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	258.22 62.04	93.06
40 05 23 23-0653 EA 2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	277.23 68.51	102.76
40 05 23 23-0654 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	338.73 85.61	128.42
40 05 23 23-0655 EA 3", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	420.03 97.46	146.20
40 05 23 23-0656 EA 4", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	462.99 114.21	171.30
40 05 23 23-0657 EA 6", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	626.73 145.40	218.09
40 05 23 23-0658 EA 8", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	918.28 209.35	314.03
40 05 23 23-0659 EA 10", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,247.92 261.69	392.53
40 05 23 23-0660 EA 12", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,701.14 348.91	523.36
40 05 23 23-0661 EA 14", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,761.50 457.95	686.93
40 05 23 23-0662 EA 16", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	3,132.84 521.88	782.81
40 05 23 23-0663 EA 18", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	4,090.96 654.21	981.31
40 05 23 23-0664 EA 20", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,321.11 872.28	1,308.43
40 05 23 23-0665 EA 24", Type 304, Schedule 40 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	8,449.31 1,308.43	1,962.64
<b>40 05 23 23-0666 Type 304, Schedule 40 Stainless Steel Butt Weld Caps (40 05 23 23-0541)</b>		
40 05 23 23-0667 EA 1/2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	92.26 24.40	36.60
40 05 23 23-0668 EA 3/4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	98.86 25.90	38.84
40 05 23 23-0669 EA 1", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	110.62 28.46	42.69
40 05 23 23-0670 EA 1-1/4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	124.90 31.02	46.53
40 05 23 23-0671 EA 1-1/2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	134.12 34.26	51.38
40 05 23 23-0672 EA 2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	140.53 38.11	57.16
40 05 23 23-0673 EA 2-1/2", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	180.36 48.78	73.16
40 05 23 23-0674 EA 3", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	208.88 57.17	85.75
40 05 23 23-0675 EA 4", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	253.80 68.42	102.64
40 05 23 23-0676 EA 6", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	344.84 85.61	128.42
40 05 23 23-0677 EA 8", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	538.56 130.84	196.26
40 05 23 23-0678 EA 10", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	720.38 174.46	261.69
40 05 23 23-0679 EA 12", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,085.79 261.69	392.52
40 05 23 23-0680 EA 14", Type 304, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,247.47 305.30	457.94





<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
<b>40 05</b>	<b>40</b>
<b>Stainless Steel Process Pipe and Tubing 40 05 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0681 EA 16", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	1,465.32 348.25	522.37
40 05 23 23-0682 EA 18", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	1,839.70 436.14	654.21
40 05 23 23-0683 EA 20", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	2,535.51 610.60	915.90
40 05 23 23-0684 EA 24", Type 304, Schedule 40 Stainless Steel Cap ..... <i>For Work In Restricted Working Space, Add</i>	3,770.49 872.28	1,308.42
<b>40 05 23 23-0685 Type 316, Schedule 10 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>		
<b>40 05 23 23-0686 Type 316, Schedule 10 Stainless Steel Pipe (40 05 23 23-0685)</b>		
40 05 23 23-0687 LF 1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	28.64 3.85	6.42
40 05 23 23-0688 LF 3/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	33.98 4.71	7.85
40 05 23 23-0689 LF 1" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	45.64 5.52	9.27
40 05 23 23-0690 LF 1-1/4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	55.57 6.90	11.56
40 05 23 23-0691 LF 1-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	61.74 7.78	12.99
40 05 23 23-0692 LF 2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	76.35 9.64	16.12
40 05 23 23-0693 LF 2-1/2" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	91.72 11.02	18.41
40 05 23 23-0694 LF 3" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	108.75 12.41	20.69
40 05 23 23-0695 LF 4" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	137.36 14.68	24.54
40 05 23 23-0696 LF 6" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	202.28 19.28	32.24
40 05 23 23-0697 LF 8" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	322.35 33.31	51.83
40 05 23 23-0698 LF 10" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	419.71 36.64	56.99
40 05 23 23-0699 LF 12" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	506.60 40.71	63.37
40 05 23 23-0700 LF 14" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	629.07 45.80	71.23
40 05 23 23-0701 LF 16" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	690.06 52.34	81.41
40 05 23 23-0702 LF 18" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	769.88 61.06	94.98
40 05 23 23-0703 LF 20" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	1,084.44 73.27	113.98
40 05 23 23-0704 LF 24" Pipe, Stainless Steel Schedule 10 Type 316 For Welded Butt Fitting ..... <i>For Work In Restricted Working Space, Add</i>	1,419.65 91.59	142.48
<b>40 05 23 23-0705 Type 316, Schedule 10 Stainless Steel Butt Weld 90 Degree Elbows (40 05 23 23-0685)</b>		
40 05 23 23-0706 EA 1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	169.71 48.79	73.19
40 05 23 23-0707 EA 3/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	179.72 51.80	77.69
40 05 23 23-0708 EA 1", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	198.10 56.92	85.39
40 05 23 23-0709 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	216.84 62.04	93.06
40 05 23 23-0710 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	238.33 68.51	102.76
40 05 23 23-0711 EA 2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	266.28 76.22	114.33
40 05 23 23-0712 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	346.38 97.55	146.32
40 05 23 23-0713 EA 3", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	407.46 114.33	171.50
40 05 23 23-0714 EA 4", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	498.57 136.84	205.26
40 05 23 23-0715 EA 6", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	682.97 170.95	256.41
40 05 23 23-0716 EA 8", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,080.59 261.69	392.53
40 05 23 23-0717 EA 10", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	1,617.46 348.91	523.36
40 05 23 23-0718 EA 12", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,426.05 523.37	785.05
40 05 23 23-0719 EA 14", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	2,830.69 610.60	915.90
40 05 23 23-0720 EA 16", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow ..... <i>For Work In Restricted Working Space, Add</i>	3,371.46 696.50	1,044.75

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0721 EA 18", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,243.97 872.28	1,308.43
40 05 23 23-0722 EA 20", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,927.70 1,221.20	1,831.80
40 05 23 23-0723 EA 24", Type 316, Schedule 10 Stainless Steel 90 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	8,524.44 1,744.56	2,616.85
<b>40 05 23 23-0724 Type 316, Schedule 10 Stainless Steel Butt Weld 45 Degree Elbows (40 05 23 23-0685)</b>		
40 05 23 23-0725 EA 1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	171.64 48.79	73.19
40 05 23 23-0726 EA 3/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	181.65 51.80	77.69
40 05 23 23-0727 EA 1", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	200.03 56.92	85.39
40 05 23 23-0728 EA 1-1/4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	219.41 62.04	93.06
40 05 23 23-0729 EA 1-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	238.33 68.51	102.76
40 05 23 23-0730 EA 2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	266.28 76.22	114.33
40 05 23 23-0731 EA 2-1/2", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	344.45 97.55	146.32
40 05 23 23-0732 EA 3", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	404.57 114.33	171.50
40 05 23 23-0733 EA 4", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	491.82 136.84	205.26
40 05 23 23-0734 EA 6", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	643.11 170.95	256.41
40 05 23 23-0735 EA 8", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,009.07 261.69	392.53
40 05 23 23-0736 EA 10", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	1,588.68 348.91	523.36
40 05 23 23-0737 EA 12", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,330.58 523.37	785.05
40 05 23 23-0738 EA 14", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	2,741.23 610.60	915.90
40 05 23 23-0739 EA 16", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	3,207.43 696.50	1,044.75
40 05 23 23-0740 EA 18", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	4,050.81 872.28	1,308.43
40 05 23 23-0741 EA 20", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	5,754.15 1,221.20	1,831.80
40 05 23 23-0742 EA 24", Type 316, Schedule 10 Stainless Steel 45 Degree Elbow..... <i>For Work In Restricted Working Space, Add</i>	8,293.29 1,744.56	2,616.85
<b>40 05 23 23-0743 Type 316, Schedule 10 Stainless Steel Butt Weld Tees (40 05 23 23-0685)</b>		
40 05 23 23-0744 EA 1/2", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	228.59 62.02	93.03
40 05 23 23-0745 EA 3/4", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	275.64 76.13	114.21
40 05 23 23-0746 EA 1", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	307.00 85.54	128.31
40 05 23 23-0747 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	352.51 97.55	146.32
40 05 23 23-0748 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	372.83 104.71	157.07
40 05 23 23-0749 EA 2", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	405.13 114.21	171.30
40 05 23 23-0750 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	492.14 136.84	205.26
40 05 23 23-0751 EA 3", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	616.96 171.49	257.24
40 05 23 23-0752 EA 4", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	708.10 192.47	288.71
40 05 23 23-0753 EA 6", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,035.43 256.63	384.93
40 05 23 23-0754 EA 8", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	1,598.72 348.91	523.36
40 05 23 23-0755 EA 10", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	2,492.00 523.37	785.05
40 05 23 23-0756 EA 12", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	3,205.51 654.21	981.31
40 05 23 23-0757 EA 14", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,109.46 786.18	1,179.27
40 05 23 23-0758 EA 16", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	4,855.50 959.05	1,438.58
40 05 23 23-0759 EA 18", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	6,171.66 1,221.20	1,831.80
40 05 23 23-0760 EA 20", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	8,319.36 1,606.84	2,410.26



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	<b>40 05</b>
<b>Stainless Steel Process Pipe and Tubing</b>	<b>40 05 23</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0761 EA 24", Type 316, Schedule 10 Stainless Steel Tee..... <i>For Work In Restricted Working Space, Add</i>	11,915.82 2,442.39	3,663.59
<b>40 05 23 23-0762 Type 316, Schedule 10 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0685)</b>		
40 05 23 23-0763 EA 3/4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	214.19 51.82	77.72
40 05 23 23-0764 EA 1", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	255.05 63.50	95.24
40 05 23 23-0765 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	309.81 71.34	107.01
40 05 23 23-0766 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	320.60 81.33	121.99
40 05 23 23-0767 EA 2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	340.81 87.39	131.08
40 05 23 23-0768 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	456.01 95.24	142.86
40 05 23 23-0769 EA 3", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	451.58 114.16	171.23
40 05 23 23-0770 EA 4", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	604.19 142.68	214.03
40 05 23 23-0771 EA 6", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	840.14 163.03	244.55
40 05 23 23-0772 EA 8", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	1,527.45 218.07	327.10
40 05 23 23-0773 EA 10", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	2,784.18 290.76	436.14
40 05 23 23-0774 EA 12", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	3,653.09 436.14	654.21
40 05 23 23-0775 EA 14", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	4,159.69 523.97	785.96
40 05 23 23-0776 EA 16", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	5,152.66 639.15	958.72
40 05 23 23-0777 EA 18", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	6,654.82 814.13	1,221.19
40 05 23 23-0778 EA 20", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	9,472.57 1,071.23	1,606.84
40 05 23 23-0779 EA 24", Type 316, Schedule 10 Stainless Steel Reducing Tee..... <i>For Work In Restricted Working Space, Add</i>	14,822.46 1,626.82	2,440.22
<b>40 05 23 23-0780 Type 316, Schedule 10 Stainless Steel Butt Weld Reducers (40 05 23 23-0685)</b>		
40 05 23 23-0781 EA 3/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	170.89 47.12	70.68
40 05 23 23-0782 EA 1", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	188.20 51.35	77.02
40 05 23 23-0783 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	209.84 56.92	85.39
40 05 23 23-0784 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	220.93 62.04	93.06
40 05 23 23-0785 EA 2", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	240.91 68.51	102.76
40 05 23 23-0786 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	315.53 85.61	128.42
40 05 23 23-0787 EA 3", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	366.35 97.46	146.20
40 05 23 23-0788 EA 4", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	405.17 114.21	171.30
40 05 23 23-0789 EA 6", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	555.69 145.40	218.09
40 05 23 23-0790 EA 8", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	803.10 209.35	314.03
40 05 23 23-0791 EA 10", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,037.55 261.69	392.53
40 05 23 23-0792 EA 12", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,388.01 348.91	523.36
40 05 23 23-0793 EA 14", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	1,962.44 457.95	686.93
40 05 23 23-0794 EA 16", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	2,275.95 521.88	782.81
40 05 23 23-0795 EA 18", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	2,820.24 654.21	981.31
40 05 23 23-0796 EA 20", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	3,954.81 872.28	1,308.43
40 05 23 23-0797 EA 24", Type 316, Schedule 10 Stainless Steel Concentric Reducer ..... <i>For Work In Restricted Working Space, Add</i>	5,765.53 1,308.43	1,962.64
40 05 23 23-0798 EA 3/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	195.88 47.12	70.68
40 05 23 23-0799 EA 1", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	217.87 51.35	77.02
40 05 23 23-0800 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	245.03 56.92	85.39
40 05 23 23-0801 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer..... <i>For Work In Restricted Working Space, Add</i>	262.08 62.04	93.06

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0802 EA 2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	266.30 68.51	102.76
40 05 23 23-0803 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	350.62 85.61	128.42
40 05 23 23-0804 EA 3", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	402.35 97.46	146.20
40 05 23 23-0805 EA 4", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	453.99 114.21	171.30
40 05 23 23-0806 EA 6", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	639.59 145.40	218.09
40 05 23 23-0807 EA 8", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	984.92 209.35	314.03
40 05 23 23-0808 EA 10", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,350.68 261.69	392.53
40 05 23 23-0809 EA 12", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	1,712.93 348.91	523.36
40 05 23 23-0810 EA 14", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	2,578.62 457.95	686.93
40 05 23 23-0811 EA 16", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,020.69 521.88	782.81
40 05 23 23-0812 EA 18", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	3,745.52 654.21	981.31
40 05 23 23-0813 EA 20", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	5,434.63 872.28	1,308.43
40 05 23 23-0814 EA 24", Type 316, Schedule 10 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	7,522.93 1,308.43	1,962.64
<b>40 05 23 23-0815 Type 316, Schedule 10 Stainless Steel Butt Weld Caps (40 05 23 23-0685)</b>		
40 05 23 23-0816 EA 1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	95.47 24.40	36.60
40 05 23 23-0817 EA 3/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	105.29 25.90	38.84
40 05 23 23-0818 EA 1", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	115.44 28.46	42.69
40 05 23 23-0819 EA 1-1/4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	126.18 31.02	46.53
40 05 23 23-0820 EA 1-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	136.69 34.26	51.38
40 05 23 23-0821 EA 2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	144.71 38.17	57.16
40 05 23 23-0822 EA 2-1/2", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	181.29 48.78	73.16
40 05 23 23-0823 EA 3", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	214.35 57.17	85.75
40 05 23 23-0824 EA 4", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	256.69 68.42	102.64
40 05 23 23-0825 EA 6", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	332.94 85.61	128.42
40 05 23 23-0826 EA 8", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	521.54 130.84	196.26
40 05 23 23-0827 EA 10", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	692.10 174.46	261.69
40 05 23 23-0828 EA 12", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,020.48 261.69	392.52
40 05 23 23-0829 EA 14", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,187.11 305.30	457.94
40 05 23 23-0830 EA 16", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,364.28 348.25	522.37
40 05 23 23-0831 EA 18", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	1,718.83 436.14	654.21
40 05 23 23-0832 EA 20", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	2,382.91 610.60	915.90
40 05 23 23-0833 EA 24", Type 316, Schedule 10 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	3,589.04 872.28	1,308.42
<b>40 05 23 23-0834 Type 316, Schedule 40 Stainless Steel Pipe And Butt Weld Fittings (40 05 23 23-0231)</b>		
<b>40 05 23 23-0835 Type 316, Schedule 40 Stainless Steel Pipe (40 05 23 23-0834)</b>		
40 05 23 23-0836 LF 1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	32.85 3.85	6.42
40 05 23 23-0837 LF 3/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	39.88 4.71	7.85
40 05 23 23-0838 LF 1" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	49.11 5.52	9.27
40 05 23 23-0839 LF 1-1/4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	61.39 6.90	11.42
40 05 23 23-0840 LF 1-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	70.90 7.78	12.84
40 05 23 23-0841 LF 2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	91.19 9.64	16.41
40 05 23 23-0842 LF 2-1/2" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	114.14 11.02	18.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0843 LF 3" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	109.51 12.41	20.69
40 05 23 23-0844 LF 4" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	186.77 14.68	24.25
40 05 23 23-0845 LF 6" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	294.53 19.28	32.10
40 05 23 23-0846 LF 8" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	505.76 33.31	51.56
40 05 23 23-0847 LF 10" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	648.44 36.64	56.99
40 05 23 23-0848 LF 12" Pipe, Stainless Steel Schedule 40 Type 316 For Welded Butt Fitting <i>For Work In Restricted Working Space, Add</i>	815.51 40.71	63.09
<b>40 05 23 23-0849 Type 316, Schedule 40 Stainless Steel Butt Weld 90 Degree Elbows</b> <small>(40 05 23 23-0834)</small>		
40 05 23 23-0850 EA 1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	171.32 48.79	73.19
40 05 23 23-0851 EA 3/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	181.33 51.80	77.69
40 05 23 23-0852 EA 1", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	199.70 56.92	85.39
40 05 23 23-0853 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	217.54 62.04	93.06
40 05 23 23-0854 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	239.94 68.51	102.76
40 05 23 23-0855 EA 2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	270.13 76.22	114.33
40 05 23 23-0856 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	358.27 97.55	146.32
40 05 23 23-0857 EA 3", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	424.17 114.33	171.50
40 05 23 23-0858 EA 4", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	535.22 136.84	205.26
40 05 23 23-0859 EA 6", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	811.55 170.95	256.41
40 05 23 23-0860 EA 8", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,326.71 261.69	392.53
40 05 23 23-0861 EA 10", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,155.57 348.91	523.36
40 05 23 23-0862 EA 12", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,076.98 523.37	785.05
40 05 23 23-0863 EA 14", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,445.08 610.60	915.90
40 05 23 23-0864 EA 16", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	4,173.56 696.50	1,044.75
40 05 23 23-0865 EA 18", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,325.74 872.28	1,308.43
40 05 23 23-0866 EA 20", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	7,200.06 1,221.20	1,831.80
40 05 23 23-0867 EA 24", Type 316, Schedule 40 Stainless Steel 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	10,445.01 1,744.56	2,616.85
<b>40 05 23 23-0868 Type 316, Schedule 40 Stainless Steel Butt Weld 45 Degree Elbows</b> <small>(40 05 23 23-0834)</small>		
40 05 23 23-0869 EA 1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	174.53 48.79	73.19
40 05 23 23-0870 EA 3/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	184.54 51.80	77.69
40 05 23 23-0871 EA 1", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	201.63 56.92	85.39
40 05 23 23-0872 EA 1-1/4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	218.48 62.04	93.06
40 05 23 23-0873 EA 1-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	241.87 68.51	102.76
40 05 23 23-0874 EA 2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	270.13 76.22	114.33
40 05 23 23-0875 EA 2-1/2", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	358.27 97.55	146.32
40 05 23 23-0876 EA 3", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	411.64 114.33	171.50
40 05 23 23-0877 EA 4", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	511.43 136.84	205.26
40 05 23 23-0878 EA 6", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	713.83 170.95	256.41
40 05 23 23-0879 EA 8", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,154.54 261.69	392.53
40 05 23 23-0880 EA 10", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	1,758.78 348.91	523.36
40 05 23 23-0881 EA 12", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,545.81 523.37	785.05
40 05 23 23-0882 EA 14", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	2,895.33 610.60	915.90

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0883 EA 16", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	3,271.64 696.50	1,044.75
40 05 23 23-0884 EA 18", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	4,202.91 872.28	1,308.43
40 05 23 23-0885 EA 20", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	5,718.94 1,221.20	1,831.80
40 05 23 23-0886 EA 24", Type 316, Schedule 40 Stainless Steel 45 Degree Elbow <i>For Work In Restricted Working Space, Add</i>	8,467.02 1,744.56	2,616.85
<b>40 05 23 23-0887 Type 316, Schedule 40 Stainless Steel Butt Weld Tees (40 05 23 23-0834)</b>		
40 05 23 23-0888 EA 1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	230.52 62.02	93.03
40 05 23 23-0889 EA 3/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	277.57 76.13	114.21
40 05 23 23-0890 EA 1", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	308.93 85.54	128.31
40 05 23 23-0891 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	355.32 97.55	146.32
40 05 23 23-0892 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	372.83 104.71	157.07
40 05 23 23-0893 EA 2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	406.42 114.21	171.30
40 05 23 23-0894 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	503.60 136.84	205.26
40 05 23 23-0895 EA 3", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	623.07 171.49	257.24
40 05 23 23-0896 EA 4", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	718.71 192.47	288.71
40 05 23 23-0897 EA 6", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,110.97 256.63	384.93
40 05 23 23-0898 EA 8", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	1,792.79 348.91	523.36
40 05 23 23-0899 EA 10", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,004.41 523.37	785.05
40 05 23 23-0900 EA 12", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	3,696.76 654.21	981.31
40 05 23 23-0901 EA 14", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	5,265.06 786.18	1,179.27
40 05 23 23-0902 EA 16", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	6,520.76 959.05	1,438.58
40 05 23 23-0903 EA 18", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	8,441.68 1,221.20	1,831.80
40 05 23 23-0904 EA 20", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	10,971.48 1,606.84	2,410.26
40 05 23 23-0905 EA 24", Type 316, Schedule 40 Stainless Steel Tee <i>For Work In Restricted Working Space, Add</i>	15,746.22 2,442.39	3,663.59
<b>40 05 23 23-0906 Type 316, Schedule 40 Stainless Steel Butt Weld Reducing Tees (40 05 23 23-0834)</b>		
40 05 23 23-0907 EA 3/4", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	220.29 51.82	77.72
40 05 23 23-0908 EA 1", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	259.22 63.50	95.24
40 05 23 23-0909 EA 1-1/4", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	335.53 71.34	107.01
40 05 23 23-0910 EA 1-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	330.57 81.33	121.99
40 05 23 23-0911 EA 2", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	340.81 87.39	131.08
40 05 23 23-0912 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	457.94 95.24	142.86
40 05 23 23-0913 EA 3", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	465.40 114.16	171.23
40 05 23 23-0914 EA 4", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	618.01 142.68	214.03
40 05 23 23-0915 EA 6", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	848.81 163.03	244.55
40 05 23 23-0916 EA 8", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	1,356.64 218.07	327.10
40 05 23 23-0917 EA 10", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	2,826.89 290.76	436.14
40 05 23 23-0918 EA 12", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	3,738.49 436.14	654.21
40 05 23 23-0919 EA 14", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	4,253.40 523.97	785.96
40 05 23 23-0920 EA 16", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	5,270.02 639.15	958.72
40 05 23 23-0921 EA 18", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	6,807.86 814.13	1,221.19
40 05 23 23-0922 EA 20", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	9,701.75 1,071.23	1,606.84
40 05 23 23-0923 EA 24", Type 316, Schedule 40 Stainless Steel Reducing Tee <i>For Work In Restricted Working Space, Add</i>	15,187.47 1,626.82	2,440.22



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 23 23-0924</b>	<b>Type 316, Schedule 40 Stainless Steel Butt Weld Reducers <small>(40 05 23 23-0834)</small></b>			
40 05 23 23-0925	EA 3/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	176.04 47.12	70.68
40 05 23 23-0926	EA 1", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	193.34 51.35	77.02
40 05 23 23-0927	EA 1-1/4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	212.18 56.92	85.39
40 05 23 23-0928	EA 1-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	226.72 62.04	93.06
40 05 23 23-0929	EA 2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	244.44 68.51	102.76
40 05 23 23-0930	EA 2-1/2", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	326.84 85.61	128.42
40 05 23 23-0931	EA 3", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	353.81 97.46	146.20
40 05 23 23-0932	EA 4", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	409.63 114.21	171.30
40 05 23 23-0933	EA 6", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	557.94 145.40	218.09
40 05 23 23-0934	EA 8", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	870.37 209.35	314.03
40 05 23 23-0935	EA 10", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	1,164.26 261.69	392.53
40 05 23 23-0936	EA 12", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	1,478.96 348.91	523.36
40 05 23 23-0937	EA 14", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	2,135.69 457.95	686.93
40 05 23 23-0938	EA 16", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	2,460.33 521.88	782.81
40 05 23 23-0939	EA 18", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	3,280.79 654.21	981.31
40 05 23 23-0940	EA 20", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	4,447.45 872.28	1,308.43
40 05 23 23-0941	EA 24", Type 316, Schedule 40 Stainless Steel Concentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	6,387.60 1,308.43	1,962.64
40 05 23 23-0942	EA 3/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	212.36 47.12	70.68
40 05 23 23-0943	EA 1", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	226.45 51.35	77.02
40 05 23 23-0944	EA 1-1/4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	261.74 56.92	85.39
40 05 23 23-0945	EA 1-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	272.04 62.04	93.06
40 05 23 23-0946	EA 2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	292.66 68.51	102.76
40 05 23 23-0947	EA 2-1/2", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	350.62 85.61	128.42
40 05 23 23-0948	EA 3", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	446.71 97.46	146.20
40 05 23 23-0949	EA 4", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	489.35 114.21	171.30
40 05 23 23-0950	EA 6", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	688.77 145.40	218.09
40 05 23 23-0951	EA 8", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	968.27 209.35	314.03
40 05 23 23-0952	EA 10", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	1,379.49 261.69	392.53
40 05 23 23-0953	EA 12", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	1,909.44 348.91	523.36
40 05 23 23-0954	EA 14", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	2,858.93 457.95	686.93
40 05 23 23-0955	EA 16", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	3,292.94 521.88	782.81
40 05 23 23-0956	EA 18", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	4,418.98 654.21	981.31
40 05 23 23-0957	EA 20", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	5,685.79 872.28	1,308.43
40 05 23 23-0958	EA 24", Type 316, Schedule 40 Stainless Steel Eccentric Reducer <i>For Work In Restricted Working Space, Add</i>	.....	8,524.07 1,308.43	1,962.64
<b>40 05 23 23-0959</b>	<b>Type 316, Schedule 40 Stainless Steel Butt Weld Caps <small>(40 05 23 23-0834)</small></b>			
40 05 23 23-0960	EA 1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	96.12 24.40	36.60
40 05 23 23-0961	EA 3/4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	104.96 25.90	38.84
40 05 23 23-0962	EA 1", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	116.09 28.46	42.69
40 05 23 23-0963	EA 1-1/4", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	132.14 31.02	46.53
40 05 23 23-0964	EA 1-1/2", Type 316, Schedule 40 Stainless Steel Cap <i>For Work In Restricted Working Space, Add</i>	.....	131.87 34.26	51.38

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0965 EA 2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	149.21 38.11	57.16
40 05 23 23-0966 EA 2-1/2", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	187.14 48.78	73.16
40 05 23 23-0967 EA 3", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	215.31 57.17	85.75
40 05 23 23-0968 EA 4", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	263.76 68.42	102.64
40 05 23 23-0969 EA 6", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	362.52 85.61	128.42
40 05 23 23-0970 EA 8", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	577.09 130.84	196.26
40 05 23 23-0971 EA 10", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	773.85 174.46	261.69
40 05 23 23-0972 EA 12", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,154.18 261.69	392.52
40 05 23 23-0973 EA 14", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,316.67 305.30	457.94
40 05 23 23-0974 EA 16", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,480.34 348.25	522.37
40 05 23 23-0975 EA 18", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	1,888.76 436.14	654.21
40 05 23 23-0976 EA 20", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	2,596.84 610.60	915.90
40 05 23 23-0977 EA 24", Type 316, Schedule 40 Stainless Steel Cap..... <i>For Work In Restricted Working Space, Add</i>	4,005.66 872.28	1,308.42
<b>40 05 23 23-0978 Valves</b> <small>(40 05 23 23-0231)</small>		
<b>40 05 23 23-0979 Gate Valves, Class 150</b> <small>(40 05 23 23-0978)</small>		
40 05 23 23-0980 EA 1/2" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	724.77 27.57 -169.29 594.90	73.52
40 05 23 23-0981 EA 3/4" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	788.46 32.17 -182.23 640.36	76.59
40 05 23 23-0982 EA 1" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	973.37 43.35 -221.72 779.13	114.88
40 05 23 23-0983 EA 1-1/4" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,225.18 49.95 -283.20 995.16	134.04
40 05 23 23-0984 EA 1-1/2" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,384.47 63.27 -313.93 1,103.16	168.72
40 05 23 23-0985 EA 2" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	1,644.13 76.59 -371.51 1,305.50	204.19
40 05 23 23-0986 EA 2-1/2" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,350.53 83.55 1,947.70	222.11
40 05 23 23-0987 EA 3" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	2,649.01 97.77 2,183.71	260.40
40 05 23 23-0988 EA 4" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	3,518.86 164.12 2,793.49	436.55
40 05 23 23-0989 EA 6" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	5,857.47 207.53 4,855.76	551.44
40 05 23 23-0990 EA 8" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	12,696.46 262.59 11,111.89	704.62
40 05 23 23-0991 EA 10" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	17,872.50 321.68 15,792.24	857.79
40 05 23 23-0992 EA 12" Gate Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 300, Add</i>	26,867.64 389.91 24,033.86	1,041.61
<b>40 05 23 23-0993 Globe Valves, Class 150</b> <small>(40 05 23 23-0978)</small>		
40 05 23 23-0994 EA 1/2" Globe Valve, Stainless Steel, Flanged..... <i>For Work In Restricted Working Space, Add</i> <i>For Class 200, Deduct</i> <i>For Class 300, Add</i>	985.92 27.57 -239.15 840.38	73.52





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-0995 EA 3/4" Globe Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,091.94 32.17 -263.41 925.63	76.59
40 05 23 23-0996 EA 1" Globe Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	1,362.44 43.35 -325.80 1,144.85	114.88
40 05 23 23-0997 EA 1-1/2" Globe Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	2,024.84 63.27 -485.23 1,705.10	168.72
40 05 23 23-0998 EA 2" Globe Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 200, Deduct For Class 300, Add	2,470.91 76.59 -592.68 2,082.67	204.19
40 05 23 23-0999 EA 2-1/2" Globe Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 300, Add	4,942.96 83.55 4,384.58	222.11
40 05 23 23-1000 EA 3" Globe Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 300, Add	5,119.93 97.77 4,506.38	260.40
40 05 23 23-1001 EA 4" Globe Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 300, Add	6,118.47 164.12 5,237.13	436.55
40 05 23 23-1002 EA 6" Globe Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 300, Add	11,251.54 207.53 9,926.18	551.44
<b>40 05 23 23-1003 Check Valves, Class 150</b> (40 05 23 23-0978)		
40 05 23 23-1004 EA 2-1/2" Check Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 300, Add	2,251.10 83.55 1,854.23	222.11
40 05 23 23-1005 EA 3" Check Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 300, Add	2,360.01 97.77 1,912.05	260.40
40 05 23 23-1006 EA 4" Check Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 300, Add	3,712.72 164.12 2,975.72	436.55
40 05 23 23-1007 EA 6" Check Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 300, Add	6,349.55 207.53 5,318.31	551.44
40 05 23 23-1008 EA 8" Check Valve, Stainless Steel, Flanged ..... For Work In Restricted Working Space, Add For Class 300, Add	11,113.17 262.59 9,623.60	704.62
<b>40 05 23 23-1009 Stainless Steel Thread-O-Let Fittings</b> (40 05 23 23-0231)		
40 05 23 23-1010 EA 1/2", Stainless Steel Thread-o-let Fitting ..... For Work In Restricted Working Space, Add	114.36 29.65	44.46
40 05 23 23-1011 EA 3/4", Stainless Steel Thread-o-let Fitting ..... For Work In Restricted Working Space, Add	151.17 39.53	59.30
40 05 23 23-1012 EA 1", Stainless Steel Thread-o-let Fitting ..... For Work In Restricted Working Space, Add	186.51 49.02	73.52
40 05 23 23-1013 EA 1-1/4", Stainless Steel Thread-o-let Fitting ..... For Work In Restricted Working Space, Add	267.07 69.36	104.04
40 05 23 23-1014 EA 1-1/2", Stainless Steel Thread-o-let Fitting ..... For Work In Restricted Working Space, Add	296.58 78.22	117.33
40 05 23 23-1015 EA 2", Stainless Steel Thread-o-let Fitting ..... For Work In Restricted Working Space, Add	372.04 99.36	149.04
40 05 23 23-1016 EA 2-1/2", Stainless Steel Thread-o-let Fitting ..... For Work In Restricted Working Space, Add	647.55 153.18	229.77
40 05 23 23-1017 EA 3", Stainless Steel Thread-o-let Fitting ..... For Work In Restricted Working Space, Add	860.62 195.55	293.32
40 05 23 23-1018 EA 4", Stainless Steel Thread-o-let Fitting ..... For Work In Restricted Working Space, Add	1,125.81 245.09	367.63
<b>40 05 23 23-1019 Stainless Steel Flanges</b> (40 05 23 23-0231)		
<b>40 05 23 23-1020 150#, Type 304 Stainless Steel Raised Face Threaded Flange</b> (40 05 23 23-1019)		
40 05 23 23-1021 EA 1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange ..... For Work In Restricted Working Space, Add	96.32 14.82	24.71
40 05 23 23-1022 EA 3/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange ..... For Work In Restricted Working Space, Add	118.00 19.76	32.95
40 05 23 23-1023 EA 1", 150#, Type 304 Stainless Steel Raised Face Threaded Flange ..... For Work In Restricted Working Space, Add	140.08 24.51	40.85
40 05 23 23-1024 EA 1-1/4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange ..... For Work In Restricted Working Space, Add	189.62 34.68	57.81
40 05 23 23-1025 EA 1-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange ..... For Work In Restricted Working Space, Add	204.39 39.11	65.18
40 05 23 23-1026 EA 2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange ..... For Work In Restricted Working Space, Add	262.58 49.68	82.79

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1027 EA 2-1/2", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	390.82 76.59	127.60
40 05 23 23-1028 EA 3", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	467.69 97.77	260.40
40 05 23 23-1029 EA 4", 150#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	602.39 122.54	204.19
<b>40 05 23 23-1030 300#, Type 304 Stainless Steel Raised Face Threaded Flange (40 05 23 23-1019)</b>		
40 05 23 23-1031 EA 1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	123.43 14.82	24.71
40 05 23 23-1032 EA 3/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	139.90 19.76	32.95
40 05 23 23-1033 EA 1", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	155.71 24.51	40.85
40 05 23 23-1034 EA 1-1/4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	229.27 34.68	57.81
40 05 23 23-1035 EA 1-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	244.04 39.11	65.18
40 05 23 23-1036 EA 2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	303.23 49.68	82.79
40 05 23 23-1037 EA 2-1/2", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	481.53 76.59	127.60
40 05 23 23-1038 EA 3", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	560.46 97.77	260.40
40 05 23 23-1039 EA 4", 300#, Type 304 Stainless Steel Raised Face Threaded Flange..... <i>For Work In Restricted Working Space, Add</i>	745.22 122.54	204.19
<b>40 05 23 23-1040 150#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)</b>		
40 05 23 23-1041 EA 1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	128.24 24.40	36.59
40 05 23 23-1042 EA 3/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	138.44 25.90	38.84
40 05 23 23-1043 EA 1", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	155.32 28.46	42.69
40 05 23 23-1044 EA 1-1/4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	190.05 31.05	46.56
40 05 23 23-1045 EA 1-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	200.63 34.22	51.32
40 05 23 23-1046 EA 2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	222.99 38.12	57.18
40 05 23 23-1047 EA 2-1/2", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	307.41 48.74	73.11
40 05 23 23-1048 EA 3", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	348.69 57.07	85.60
40 05 23 23-1049 EA 4", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	448.94 68.38	102.57
40 05 23 23-1050 EA 6", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	666.33 85.43	128.14
40 05 23 23-1051 EA 8", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,082.46 130.84	196.26
40 05 23 23-1052 EA 10", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,535.37 174.46	261.68
40 05 23 23-1053 EA 12", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,360.90 261.69	392.52
40 05 23 23-1054 EA 14", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,952.12 305.30	457.94
40 05 23 23-1055 EA 16", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,685.17 348.25	522.37
40 05 23 23-1056 EA 18", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,520.33 436.14	654.21
40 05 23 23-1057 EA 20", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	5,855.75 610.60	915.90
40 05 23 23-1058 EA 24", 150#, Type 304 Stainless Steel Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	8,321.50 872.28	1,308.42
<b>40 05 23 23-1059 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange (40 05 23 23-1019)</b>		
40 05 23 23-1060 EA 1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	160.57 24.40	36.59
40 05 23 23-1061 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	165.56 25.90	38.84
40 05 23 23-1062 EA 1" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	174.12 28.46	42.69
40 05 23 23-1063 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	226.48 31.05	46.56
40 05 23 23-1064 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	237.06 34.22	51.32
40 05 23 23-1065 EA 2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	254.26 38.12	57.18
40 05 23 23-1066 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	361.59 48.74	73.11



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
Stainless Steel Process Pipe and Tubing	40 05 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1067 EA 3" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	409.14 57.07	85.60
40 05 23 23-1068 EA 4" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	590.67 68.38	102.57
40 05 23 23-1069 EA 6" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	826.86 85.43	128.14
40 05 23 23-1070 EA 8" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	1,482.76 130.84	196.26
40 05 23 23-1071 EA 10" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	2,063.91 174.46	261.68
40 05 23 23-1072 EA 12" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	3,032.28 261.69	392.52
40 05 23 23-1073 EA 14" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,013.44 305.30	457.94
40 05 23 23-1074 EA 16" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	4,954.37 348.25	522.37
40 05 23 23-1075 EA 18" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	6,327.65 436.14	654.21
40 05 23 23-1076 EA 20" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	8,168.13 610.60	915.90
40 05 23 23-1077 EA 24" 300#, Type 304 Stainless Steel Raised Face Weld Neck Flange..... <i>For Work In Restricted Working Space, Add</i>	11,892.84 872.28	1,308.42
<b>40 05 23 23-1078 150#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>		
40 05 23 23-1079 EA 1/2", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	204.34 48.79	73.18
40 05 23 23-1080 EA 3/4", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	215.40 51.80	77.67
40 05 23 23-1081 EA 1", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	236.66 56.93	85.39
40 05 23 23-1082 EA 1-1/4", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	270.56 62.09	93.13
40 05 23 23-1083 EA 1-1/2", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	291.72 68.44	102.65
40 05 23 23-1084 EA 2", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	336.51 76.23	114.35
40 05 23 23-1085 EA 2-1/2", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	440.68 97.49	146.23
40 05 23 23-1086 EA 3", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	504.54 114.14	171.19
40 05 23 23-1087 EA 4", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	624.76 136.76	205.13
40 05 23 23-1088 EA 6", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	827.06 170.87	256.29
40 05 23 23-1089 EA 8", 150#, Type 304 Stainless Steel Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,359.14 261.69	392.52
40 05 23 23-1090 EA 10" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,918.82 348.91	523.36
40 05 23 23-1091 EA 12" 150#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,861.04 523.37	785.04
<b>40 05 23 23-1092 300#, Type 304 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>		
40 05 23 23-1093 EA 1/2" 300#, Type 304 Stainless Steel Raised Neck Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	225.19 48.79	73.18
40 05 23 23-1094 EA 3/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	235.20 51.80	77.67
40 05 23 23-1095 EA 1" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	252.30 56.93	85.39
40 05 23 23-1096 EA 1-1/4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	302.89 62.09	93.13
40 05 23 23-1097 EA 1-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	324.05 68.44	102.65
40 05 23 23-1098 EA 2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	358.36 76.23	114.35
40 05 23 23-1099 EA 2-1/2" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	522.03 97.49	146.23
40 05 23 23-1100 EA 3" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	585.83 114.14	171.19
40 05 23 23-1101 EA 4" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	737.32 136.76	205.13
40 05 23 23-1102 EA 6" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,145.01 170.87	256.29
40 05 23 23-1103 EA 8" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,680.19 261.69	392.52
40 05 23 23-1104 EA 10" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,435.89 348.91	523.36
40 05 23 23-1105 EA 12" 300#, Type 304 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	3,526.16 523.37	785.04
<b>40 05 23 23-1106 150#, Type 304 Stainless Steel Blind Flanges (40 05 23 23-1019)</b>		

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1107	EA	1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	77.03 9.76	14.62
40 05 23 23-1108	EA	3/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	80.39 10.36	15.52
40 05 23 23-1109	EA	1", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	86.97 11.39	17.07
40 05 23 23-1110	EA	1-1/4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	112.11 12.67	19.00
40 05 23 23-1111	EA	1-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	126.94 17.12	25.69
40 05 23 23-1112	EA	2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	149.91 19.01	28.51
40 05 23 23-1113	EA	2-1/2", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	204.46 24.44	36.66
40 05 23 23-1114	EA	3", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	249.67 34.25	51.36
40 05 23 23-1115	EA	4", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	379.95 57.06	85.58
40 05 23 23-1116	EA	6", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	521.86 73.37	110.06
40 05 23 23-1117	EA	8", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	779.08 81.41	122.12
40 05 23 23-1118	EA	10", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,207.58 97.70	146.54
40 05 23 23-1119	EA	12", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,600.67 122.12	183.18
40 05 23 23-1120	EA	14", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,035.74 152.65	228.97
40 05 23 23-1121	EA	16", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,634.61 174.13	261.18
40 05 23 23-1122	EA	18", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,110.65 218.07	327.10
40 05 23 23-1123	EA	20", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,126.41 305.30	457.94
40 05 23 23-1124	EA	24", 150#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	6,012.57 436.14	654.21
<b>40 05 23 23-1125</b>		<b>300#, Type 304 Stainless Steel Blind Flanges</b> <small>(40 05 23 23-1019)</small>		
40 05 23 23-1126	EA	1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	98.25 9.76	14.62
40 05 23 23-1127	EA	3/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	100.24 10.36	15.52
40 05 23 23-1128	EA	1", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	103.66 11.39	17.07
40 05 23 23-1129	EA	1-1/4", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	131.90 12.67	19.00
40 05 23 23-1130	EA	1-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	146.73 17.12	25.69
40 05 23 23-1131	EA	2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	160.33 19.01	28.51
40 05 23 23-1132	EA	2-1/2", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	277.43 24.44	36.66
40 05 23 23-1133	EA	3", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	317.96 34.25	51.36
40 05 23 23-1134	EA	4", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	465.40 57.06	85.58
40 05 23 23-1135	EA	6", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	874.19 73.37	110.06
40 05 23 23-1136	EA	8", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,200.22 81.41	122.12
40 05 23 23-1137	EA	10", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	1,720.44 97.70	146.54
40 05 23 23-1138	EA	12", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	2,387.73 122.12	183.18
40 05 23 23-1139	EA	14", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	3,348.46 152.65	228.97
40 05 23 23-1140	EA	16", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	4,291.97 174.13	261.18
40 05 23 23-1141	EA	18", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	5,604.95 218.07	327.10
40 05 23 23-1142	EA	20", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	7,085.76 305.30	457.94
40 05 23 23-1143	EA	24", 300#, Type 304 Stainless Steel Raised Face Blind Flange <i>For Work In Restricted Working Space, Add</i>	10,879.97 436.14	654.21
<b>40 05 23 23-1144</b>		<b>150#, Type 316 Stainless Steel Raised Face Threaded Flange</b> <small>(40 05 23 23-1019)</small>		
40 05 23 23-1145	EA	1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	115.12 14.82	24.71
40 05 23 23-1146	EA	3/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	142.01 19.76	32.95
40 05 23 23-1147	EA	1", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	162.98 24.51	40.85



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	<b>40 05</b>
<b>Stainless Steel Process Pipe and Tubing</b>	<b>40 05 23</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1148	EA		1-1/4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	224.00 34.68	57.81
40 05 23 23-1149	EA		1-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	238.77 39.11	65.18
40 05 23 23-1150	EA		2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	300.12 49.68	82.79
40 05 23 23-1151	EA		2-1/2", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	445.05 76.59	127.60
40 05 23 23-1152	EA		3", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	537.56 97.77	260.40
40 05 23 23-1153	EA		4", 150#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	700.37 122.54	204.19
<b>40 05 23 23-1154</b>			<b>300#, Type 316 Stainless Steel Raised Face Threaded Flange</b> <small>(40 05 23 23-1019)</small>		
40 05 23 23-1155	EA		1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	150.55 14.82	24.71
40 05 23 23-1156	EA		3/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	167.02 19.76	32.95
40 05 23 23-1157	EA		1", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	182.83 24.51	40.85
40 05 23 23-1158	EA		1-1/4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	281.39 34.68	57.81
40 05 23 23-1159	EA		1-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	296.16 39.11	65.18
40 05 23 23-1160	EA		2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	349.08 49.68	82.79
40 05 23 23-1161	EA		2-1/2", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	584.73 76.59	127.60
40 05 23 23-1162	EA		3", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	665.76 97.77	260.40
40 05 23 23-1163	EA		4", 300#, Type 316 Stainless Steel Raised Face Threaded Flange <i>For Work In Restricted Working Space, Add</i>	913.02 122.54	204.19
<b>40 05 23 23-1164</b>			<b>150#, Type 316 Stainless Steel Raised Face Weld Neck Flange</b> <small>(40 05 23 23-1019)</small>		
40 05 23 23-1165	EA		1/2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	152.20 24.40	36.59
40 05 23 23-1166	EA		3/4", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	162.45 25.90	38.84
40 05 23 23-1167	EA		1", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	182.44 28.46	42.69
40 05 23 23-1168	EA		1-1/4", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	225.48 31.05	46.56
40 05 23 23-1169	EA		1-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	236.06 34.22	51.32
40 05 23 23-1170	EA		2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	259.47 38.12	57.18
40 05 23 23-1171	EA		2-1/2", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	368.86 48.74	73.11
40 05 23 23-1172	EA		3", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	403.92 57.07	85.60
40 05 23 23-1173	EA		4", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	542.76 68.38	102.57
40 05 23 23-1174	EA		6", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	828.96 85.43	128.14
40 05 23 23-1175	EA		8", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,333.71 130.84	196.26
40 05 23 23-1176	EA		10", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,954.46 174.46	261.68
40 05 23 23-1177	EA		12", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,914.50 261.69	392.52
40 05 23 23-1178	EA		14", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,410.62 305.30	457.94
40 05 23 23-1179	EA		16", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	4,283.47 348.25	522.37
40 05 23 23-1180	EA		18", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	5,247.15 436.14	654.21
40 05 23 23-1181	EA		20", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	6,761.25 610.60	915.90
40 05 23 23-1182	EA		24", 150#, Type 316 Stainless Steel Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	9,604.68 872.28	1,308.42
<b>40 05 23 23-1183</b>			<b>300#, Type 316 Stainless Steel Raised Face Weld Neck Flange</b> <small>(40 05 23 23-1019)</small>		
40 05 23 23-1184	EA		1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	191.84 24.40	36.59
40 05 23 23-1185	EA		3/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	196.83 25.90	38.84
40 05 23 23-1186	EA		1" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	205.39 28.46	42.69
40 05 23 23-1187	EA		1-1/4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	269.28 31.05	46.56

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1188	EA	1-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	279.86 34.22	51.32
40 05 23 23-1189	EA	2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	306.38 38.12	57.18
40 05 23 23-1190	EA	2-1/2" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	451.25 48.74	73.11
40 05 23 23-1191	EA	3" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	493.59 57.07	85.60
40 05 23 23-1192	EA	4" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	747.04 68.38	102.57
40 05 23 23-1193	EA	6" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,213.62 85.43	128.14
40 05 23 23-1194	EA	8" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	1,877.89 130.84	196.26
40 05 23 23-1195	EA	10" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	2,703.97 174.46	261.68
40 05 23 23-1196	EA	12" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	3,972.54 261.69	392.52
40 05 23 23-1197	EA	14" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	5,381.02 305.30	457.94
40 05 23 23-1198	EA	16" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	6,686.14 348.25	522.37
40 05 23 23-1199	EA	18" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	8,552.58 436.14	654.21
40 05 23 23-1200	EA	20" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	10,967.79 610.60	915.90
40 05 23 23-1201	EA	24" 300#, Type 316 Stainless Steel Raised Face Weld Neck Flange <i>For Work In Restricted Working Space, Add</i>	15,994.65 872.28	1,308.42
<b>40 05 23 23-1202</b>		<b>150#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>		
40 05 23 23-1203	EA	1/2", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	216.87 48.79	73.18
40 05 23 23-1204	EA	3/4", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	234.20 51.80	77.67
40 05 23 23-1205	EA	1", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	258.19 56.93	85.39
40 05 23 23-1206	EA	1-1/4", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	349.11 62.09	93.13
40 05 23 23-1207	EA	1-1/2", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	316.73 68.44	102.65
40 05 23 23-1208	EA	2", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	342.72 76.23	114.35
40 05 23 23-1209	EA	2-1/2", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	436.52 97.49	146.23
40 05 23 23-1210	EA	3", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	539.98 114.14	171.19
40 05 23 23-1211	EA	4", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	699.78 136.76	205.13
40 05 23 23-1212	EA	6", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	938.57 170.87	256.29
40 05 23 23-1213	EA	8", 150#, Type 316 Stainless Steel Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,589.48 261.69	392.52
40 05 23 23-1214	EA	10" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	2,233.66 348.91	523.36
40 05 23 23-1215	EA	12" 150#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	3,282.18 523.37	785.04
<b>40 05 23 23-1216</b>		<b>300#, Type 316 Stainless Steel Raised Face Slip-On Flanges (40 05 23 23-1019)</b>		
40 05 23 23-1217	EA	1/2" 300#, Type 316 Stainless Steel Raised Neck Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	246.04 48.79	73.18
40 05 23 23-1218	EA	3/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	256.05 51.80	77.67
40 05 23 23-1219	EA	1" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	273.15 56.93	85.39
40 05 23 23-1220	EA	1-1/4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	343.53 62.09	93.13
40 05 23 23-1221	EA	1-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	364.69 68.44	102.65
40 05 23 23-1222	EA	2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	396.79 76.23	114.35
40 05 23 23-1223	EA	2-1/2" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	612.69 97.49	146.23
40 05 23 23-1224	EA	3" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	678.60 114.14	171.19
40 05 23 23-1225	EA	4" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	881.16 136.76	205.13
40 05 23 23-1226	EA	6" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,354.55 170.87	256.29
40 05 23 23-1227	EA	8" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	1,896.00 261.69	392.52
40 05 23 23-1228	EA	10" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange <i>For Work In Restricted Working Space, Add</i>	3,138.49 348.91	523.36



<b>Process Interconnections</b>	<b>40</b>
<b>Common Work Results For Process Interconnections</b>	
<b>Stainless Steel Process Pipe and Tubing</b>	<b>40 05 23</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 23 23-1229 EA 12" 300#, Type 316 Stainless Steel Raised Face Slip-On Flange ..... <i>For Work In Restricted Working Space, Add</i>	4,145.37 523.37	785.04
<b>40 05 23 23-1230 150#, Type 316 Stainless Steel Blind Flanges</b> <small>(40 05 23 23-1019)</small>		
40 05 23 23-1231 EA 1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	86.77 9.76	14.62
40 05 23 23-1232 EA 3/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	98.13 10.36	15.52
40 05 23 23-1233 EA 1", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	110.92 11.39	17.07
40 05 23 23-1234 EA 1-1/4", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	130.85 12.67	19.00
40 05 23 23-1235 EA 1-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	145.68 17.12	25.69
40 05 23 23-1236 EA 2", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	181.18 19.01	28.51
40 05 23 23-1237 EA 2-1/2", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	253.48 24.44	36.66
40 05 23 23-1238 EA 3", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	303.90 34.25	51.36
40 05 23 23-1239 EA 4", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	471.66 57.06	85.58
40 05 23 23-1240 EA 6", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	668.86 73.37	110.06
40 05 23 23-1241 EA 8", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,130.35 81.41	122.12
40 05 23 23-1242 EA 10", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,484.88 97.70	146.54
40 05 23 23-1243 EA 12", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,400.26 122.12	183.18
40 05 23 23-1244 EA 14", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,854.37 152.65	228.97
40 05 23 23-1245 EA 16", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	3,735.94 174.13	261.18
40 05 23 23-1246 EA 18", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	4,388.66 218.07	327.10
40 05 23 23-1247 EA 20", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	5,793.13 305.30	457.94
40 05 23 23-1248 EA 24", 150#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	8,456.70 436.14	654.21
<b>40 05 23 23-1249 300#, Type 316 Stainless Steel Blind Flanges</b> <small>(40 05 23 23-1019)</small>		
40 05 23 23-1250 EA 1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	133.68 9.76	14.62
40 05 23 23-1251 EA 3/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	135.67 10.36	15.52
40 05 23 23-1252 EA 1", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	139.09 11.39	17.07
40 05 23 23-1253 EA 1-1/4", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	208.03 12.67	19.00
40 05 23 23-1254 EA 1-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	222.86 17.12	25.69
40 05 23 23-1255 EA 2", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	246.83 19.01	28.51
40 05 23 23-1256 EA 2-1/2", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	410.90 24.44	36.66
40 05 23 23-1257 EA 3", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	454.00 34.25	51.36
40 05 23 23-1258 EA 4", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	694.74 57.06	85.58
40 05 23 23-1259 EA 6", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,265.17 73.37	110.06
40 05 23 23-1260 EA 8", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	1,604.72 81.41	122.12
40 05 23 23-1261 EA 10", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	2,896.36 97.70	146.54
40 05 23 23-1262 EA 12", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	3,531.32 122.12	183.18
40 05 23 23-1263 EA 14", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	5,104.96 152.65	228.97
40 05 23 23-1264 EA 16", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	6,587.80 174.13	261.18
40 05 23 23-1265 EA 18", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	8,622.33 218.07	327.10
40 05 23 23-1266 EA 20", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	10,839.27 305.30	457.94
40 05 23 23-1267 EA 24", 300#, Type 316 Stainless Steel Raised Face Blind Flange ..... <i>For Work In Restricted Working Space, Add</i>	16,710.66 436.14	654.21
<b>40 05 23 23-1268 Type 316 Seamless Annealed Tubing</b> <small>(40 05 23 23)</small> Note: For high pressure air (8000 PSIG working pressure).		

**40 Process Interconnections****40 05 Common Work Results For Process Interconnections****40 05 23 Stainless Steel Process Pipe and Tubing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>40 05 23 23-1269</b> Type 316 Seamless Annealed Tubing <small>(40 05 23 23-1268)</small>		
40 05 23 23-1270 LF 3/8" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .065 Wall Thickness .....	28.16	
40 05 23 23-1271 LF 1/2" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .083 Wall Thickness .....	34.97	
40 05 23 23-1272 LF 3/4" Outside Diameter Stainless Steel Type 316 Seamless, Annealed, .120 Wall Thickness .....	42.25	
<b>40 05 23 23-1273</b> Type 316 Seamless Annealed Tubing Fittings <small>(40 05 23 23-1268)</small>		
Note: Pressure rating 5000 PSI minimum. Includes front and back ferrules.		
40 05 23 23-1274 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Connector With Front And Back Ferrules .....	92.99	
40 05 23 23-1275 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Elbow With Front And Back Ferrules .....	102.08	
40 05 23 23-1276 EA 3/8" Tube Outside Diameter X 3/8" NPT Stainless Steel Male Tee With Front And Back Ferrules .....	156.81	
40 05 23 23-1277 EA 3/8" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules .....	76.42	
40 05 23 23-1278 EA 3/8" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules .....	126.27	
40 05 23 23-1279 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Connector With Front And Back Ferrules .....	97.39	
40 05 23 23-1280 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Elbow With Front And Back Ferrules .....	117.63	
40 05 23 23-1281 EA 1/2" Tube Outside Diameter X 1/2" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules .....	180.89	
40 05 23 23-1282 EA 1/2" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules .....	114.49	
40 05 23 23-1283 EA 1/2" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules .....	177.90	
40 05 23 23-1284 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Connector With Front And Back Ferrules .....	114.42	
40 05 23 23-1285 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Elbow With Front And Back Ferrules .....	146.61	
40 05 23 23-1286 EA 3/4" Tube Outside Diameter X 3/4" NPT Stainless Steel Male Branch Tee With Front And Back Ferrules .....	241.05	
40 05 23 23-1287 EA 3/4" Outside Diameter Stainless Steel Union Elbow With Front And Back Ferrules .....	198.01	
40 05 23 23-1288 EA 3/4" Outside Diameter Stainless Steel Union Tee With Front And Back Ferrules .....	244.85	
<b>40 05 23 23-1289</b> Valves For High Pressure Air (5,000 PSIG) <small>(40 05 23 23-1268)</small>		
<b>40 05 23 23-1290</b> Needle Valves <small>(40 05 23 23-1289)</small>		
40 05 23 23-1291 EA 3/8" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge .....	431.74	
40 05 23 23-1292 EA 1/2" Tube Fitting Outside Diameter Stainless Steel With Needle Valve Cartridge .....	681.71	
<b>40 05 23 23-1293</b> Safety Valve (Code Stamped) Work Pressure, 6,000 PSIG <small>(40 05 23 23-1289)</small>		
40 05 23 23-1294 EA 1/4" NPT Inlet, Safety Valve Spring Loaded 316 Stainless Steel Construction .....	413.03	
<b>40 05 23 23-1295</b> Other Valves Working Pressure 6,000 PSI <small>(40 05 23 23-1289)</small>		
40 05 23 23-1296 EA 1/4" NPT Pressure Reducing Valve Spring Loaded, Stainless Steel Body, 6,000 PSIG .....	1,690.33	
40 05 23 23-1297 EA 1/4" NPT Pressure Gauge, Liquid Filled, 6,000 PSIG, Blow Out Back .....	429.34	
40 05 23 23-1298 EA Snubber 316 Stainless Steel Body, Rated For Design Pressure With Sinterec Element .....	86.23	
<b>40 05 41 Glass Process Pipe</b> <small>(40 05)</small>		
<b>40 05 41 00-0001</b> Glass Pressure Pipe <small>(40 05 41)</small>		
<b>40 05 41 00-0002</b> Glass Pipe, Beaded Joints <small>(40 05 41 00-0001)</small>		
40 05 41 00-0003 LF 1/2" Glass Pipe, Pressure .....	58.85	21.15
<i>For Work In Restricted Working Space, Add</i> .....	12.69	
40 05 41 00-0004 LF 3/4" Glass Pipe, Pressure .....	70.63	25.38
<i>For Work In Restricted Working Space, Add</i> .....	15.23	
40 05 41 00-0005 LF 1" Glass Pipe, Pressure .....	82.23	28.20
<i>For Work In Restricted Working Space, Add</i> .....	16.92	
40 05 41 00-0006 LF 1-1/2" Glass Pipe, Pressure .....	108.51	38.06
<i>For Work In Restricted Working Space, Add</i> .....	22.84	
40 05 41 00-0007 LF 2" Glass Pipe, Pressure .....	133.07	45.11
<i>For Work In Restricted Working Space, Add</i> .....	27.07	
40 05 41 00-0008 LF 3" Glass Pipe, Pressure .....	165.50	52.16
<i>For Work In Restricted Working Space, Add</i> .....	31.30	
40 05 41 00-0009 LF 4" Glass Pipe, Pressure .....	226.67	70.49
<i>For Work In Restricted Working Space, Add</i> .....	42.29	
40 05 41 00-0010 LF 6" Glass Pipe, Pressure .....	322.89	84.59
<i>For Work In Restricted Working Space, Add</i> .....	50.75	
<b>40 05 41 00-0011</b> Glass 90 Degree Elbows <small>(40 05 41 00-0001)</small>		
40 05 41 00-0012 EA 1/2" 90 Degree Elbow, Glass, Pressure .....	264.26	112.79
<i>For Work In Restricted Working Space, Add</i> .....	67.67	
40 05 41 00-0013 EA 3/4" 90 Degree Elbow, Glass, Pressure .....	285.25	119.83
<i>For Work In Restricted Working Space, Add</i> .....	71.90	
40 05 41 00-0014 EA 1" 90 Degree Elbow, Glass, Pressure .....	313.42	126.88
<i>For Work In Restricted Working Space, Add</i> .....	76.13	
40 05 41 00-0015 EA 1-1/2" 90 Degree Elbow, Glass, Pressure .....	345.56	140.98
<i>For Work In Restricted Working Space, Add</i> .....	84.59	
40 05 41 00-0016 EA 2" 90 Degree Elbow, Glass, Pressure .....	394.99	155.08
<i>For Work In Restricted Working Space, Add</i> .....	93.05	
40 05 41 00-0017 EA 3" 90 Degree Elbow, Glass, Pressure .....	501.68	183.28
<i>For Work In Restricted Working Space, Add</i> .....	109.96	
40 05 41 00-0018 EA 4" 90 Degree Elbow, Glass, Pressure .....	582.84	197.37
<i>For Work In Restricted Working Space, Add</i> .....	118.40	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
40 05 41 00-0019 EA 6" 90 Degree Elbow, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	941.45 135.35	225.57
<b>40 05 41 00-0020 Glass 45 Degree Elbows</b> <small>(40 05 41 00-0001)</small>		
40 05 41 00-0021 EA 1/2" 45 Degree Elbow, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	262.71 67.67	112.79
40 05 41 00-0022 EA 3/4" 45 Degree Elbow, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	283.44 71.90	119.83
40 05 41 00-0023 EA 1" 45 Degree Elbow, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	311.01 76.13	126.88
40 05 41 00-0024 EA 1-1/2" 45 Degree Elbow, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	343.02 84.59	140.98
40 05 41 00-0025 EA 2" 45 Degree Elbow, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	391.53 93.04	155.08
40 05 41 00-0026 EA 3" 45 Degree Elbow, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	496.31 109.97	183.28
40 05 41 00-0027 EA 4" 45 Degree Elbow, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	575.31 118.40	197.37
40 05 41 00-0028 EA 6" 45 Degree Elbow, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	921.66 135.30	225.57
<b>40 05 41 00-0029 Glass Tees</b> <small>(40 05 41 00-0001)</small>		
40 05 41 00-0030 EA 1/2" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	404.66 101.52	169.18
40 05 41 00-0031 EA 3/4" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	433.70 109.97	183.28
40 05 41 00-0032 EA 1" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	468.88 118.40	197.37
40 05 41 00-0033 EA 1-1/2" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	531.51 126.86	211.47
40 05 41 00-0034 EA 2" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	592.49 139.58	232.62
40 05 41 00-0035 EA 3" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	720.29 169.18	281.96
40 05 41 00-0036 EA 4" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	854.23 177.56	295.92
40 05 41 00-0037 EA 6" Tee, Glass, Pressure..... <i>For Work In Restricted Working Space, Add</i>	1,134.97 202.95	338.22
<b>40 05 41 00-0038 Glass Couplings, Vitron Liner</b> <small>(40 05 41 00-0001)</small>		
40 05 41 00-0039 EA 1/2" Coupling, Vitron Liner, Glass.....	55.65	
40 05 41 00-0040 EA 3/4" Coupling, Vitron Liner, Glass.....	63.60	
40 05 41 00-0041 EA 1" Coupling, Vitron Liner, Glass.....	74.20	
40 05 41 00-0042 EA 1-1/2" Coupling, Vitron Liner, Glass.....	84.81	
40 05 41 00-0043 EA 2" Coupling, Vitron Liner, Glass.....	102.03	
40 05 41 00-0044 EA 3" Coupling, Vitron Liner, Glass.....	186.84	
40 05 41 00-0045 EA 4" Coupling, Vitron Liner, Glass.....	225.26	
40 05 41 00-0046 EA 6" Coupling, Vitron Liner, Glass.....	450.53	

**END OF SECTION 40**

**40 Process Interconnections**

**40 05 Common Work Results For Process Interconnections**

40 05 41 Glass Process Pipe



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 41 Material Processing and Handling Equipment

### 41 01 Operation and Maintenance of Material Processing and Handling Equipment<sup>(41)</sup>

#### 41 01 20 Operation and Maintenance of Piece Material Handling Equipment<sup>(41 01)</sup>

##### 41 01 20 13 Operation And Maintenance Of Hoists Or Cranes<sup>(41 01 20)</sup>

##### 41 01 20 13-0001 Maintenance<sup>(41 01 20 13)</sup>

41 01 20 13-0002	EA	Regular Inspection.....	440.69	
41 01 20 13-0003	HR	Hoist Or Crane Servicing, Labor Only.....	131.90	
41 01 20 13-0004	MO	Hoist Or Crane Maintenance Contract.....	919.97	

### 41 20 Piece Material Handling Equipment<sup>(41)</sup>

#### 41 22 Cranes and Hoists<sup>(41 20)</sup>

##### 41 22 23 Hoists<sup>(41 22)</sup>

##### 41 22 23 13 Fixed Hoists<sup>(41 22 23)</sup>

##### 41 22 23 13-0001 Air-Powered Chain Hoists<sup>(41 22 23 13)</sup>

Note: Excludes beam.

41 22 23 13-0002	EA	500 LB Capacity, Air-Powered Chain Hoist.....	6,966.31	410.39
41 22 23 13-0003	EA	1,000 LB Capacity, Air-Powered Chain Hoist.....	7,047.12	410.39
41 22 23 13-0004	EA	2,000 LB Capacity, Air-Powered Chain Hoist.....	8,490.19	410.39
41 22 23 13-0005	EA	4,000 LB Capacity, Air-Powered Chain Hoist.....	10,722.85	547.19
41 22 23 13-0006	EA	6,000 LB Capacity, Air-Powered Chain Hoist.....	13,534.36	683.98
41 22 23 13-0007	EA	8,000 LB Capacity, Air-Powered Chain Hoist.....	15,938.01	1,005.19
41 22 23 13-0008	EA	10,000 LB Capacity, Air-Powered Chain Hoist.....	18,403.88	1,214.07
41 22 23 13-0009	EA	12,000 LB Capacity, Air-Powered Chain Hoist.....	20,620.22	1,214.07

##### 41 22 23 13-0010 Electric Hoists<sup>(41 22 23 13)</sup>

##### 41 22 23 13-0011 Electric Industrial Chain Hoists<sup>(41 22 23 13-0010)</sup>

Note: Includes 20' of chain. Excludes beams.

41 22 23 13-0012	EA	500 LB Capacity, Electric Industrial Chain Hoist.....	3,277.32	396.71
		For DC Electrical Operated, Add	620.37	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0013	EA	1,000 LB Capacity, Electric Industrial Chain Hoist.....	3,413.55	396.71
		For DC Electrical Operated, Add	653.89	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0014	EA	2,000 LB Capacity, Electric Industrial Chain Hoist.....	3,758.18	396.71
		For DC Electrical Operated, Add	736.78	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0015	EA	3,000 LB Capacity, Electric Industrial Chain Hoist.....	5,584.69	410.39
		For DC Electrical Operated, Add	1,184.74	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0016	EA	4,000 LB Capacity, Electric Industrial Chain Hoist.....	4,839.99	410.39
		For DC Electrical Operated, Add	996.13	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0017	EA	5,000 LB Capacity, Electric Industrial Chain Hoist.....	6,851.25	424.07
		For DC Electrical Operated, Add	1,487.93	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0018	EA	6,000 LB Capacity, Electric Industrial Chain Hoist.....	6,246.95	465.11
		For DC Electrical Operated, Add	1,298.58	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0019	EA	7,500 LB Capacity, Electric Industrial Chain Hoist.....	7,678.06	574.54
		For DC Electrical Operated, Add	1,649.65	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0020	EA	10,000 LB Capacity, Electric Industrial Chain Hoist.....	9,014.65	583.97
		For DC Electrical Operated, Add	2,001.10	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0021	EA	15,000 LB Capacity, Electric Industrial Chain Hoist.....	14,433.18	609.36
		For DC Electrical Operated, Add	3,303.35	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0022	EA	20,000 LB Capacity, Electric Industrial Chain Hoist.....	17,259.20	634.75
		For DC Electrical Operated, Add	3,996.66	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0023	EA	25,000 LB Capacity, Electric Industrial Chain Hoist.....	23,804.45	660.14
		For DC Electrical Operated, Add	5,619.42	
		For Each LF Copper Conductor Bar, Add	10.50	
41 22 23 13-0024	EA	30,000 LB Capacity, Electric Industrial Chain Hoist.....	30,424.53	723.62
		For DC Electrical Operated, Add	7,242.55	
		For Each LF Copper Conductor Bar, Add	10.50	

**41 Material Processing and Handling Equipment****41 20 Piece Material Handling Equipment****41 22 Cranes and Hoists**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
41 22 23	13-0025		<b>Hand Chain Hoists</b> <small>(41 22 23 13)</small>		
41 22 23	13-0026	EA	1,000 LB Capacity, Hand Chain Hoist .....	1,815.10	165.59
41 22 23	13-0027	EA	2,000 LB Capacity, Hand Chain Hoist .....	2,137.40	167.86
41 22 23	13-0028	EA	3,000 LB Capacity, Hand Chain Hoist .....	2,867.34	175.80
41 22 23	13-0029	EA	4,000 LB Capacity, Hand Chain Hoist .....	3,226.51	178.07
41 22 23	13-0030	EA	5,000 LB Capacity, Hand Chain Hoist .....	3,892.63	187.14
41 22 23	13-0031	EA	6,000 LB Capacity, Hand Chain Hoist .....	4,359.78	218.89
41 22 23	13-0032	EA	10,000 LB Capacity, Hand Chain Hoist.....	6,041.77	225.71
41 22 23	13-0033	EA	16,000 LB Capacity, Hand Chain Hoist.....	7,888.83	272.21
41 22 23	13-0034	EA	20,000 LB Capacity, Hand Chain Hoist.....	9,633.84	284.68
41 22 23	13-0035	EA	30,000 LB Capacity, Hand Chain Hoist.....	16,971.55	325.51

**END OF SECTION 41**



<b>Process Gas and Liquid Handling, Purification, and Storage Equipment</b>	<b>43</b>	<b>43</b>
<b>Liquid Handling Equipment</b>	<b>43 20</b>	
<b>Dry Location Liquid Pumps</b>	<b>43 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**43 Process Gas and Liquid Handling, Purification, and Storage Equipment**

**43 20 Liquid Handling Equipment** <sup>(43)</sup>

**43 23 Dry Location Liquid Pumps** <sup>(43 20)</sup>

**43 23 78 Controlled Volume Horizontal Reciprocating Pumps** <sup>(43 23)</sup>

**43 23 78 31 Controlled Volume Horizontal Mechanically-Coupled Diaphragm Simplex Reciprocating Pumps** <sup>(43 23 78)</sup>

**43 23 78 31-0001 Diaphragm Pump** <sup>(43 23 78 31)</sup>

43 23 78 31-0002 EA 28 GPH Diaphragm Pump, Adjustable Flow 0-100% 250 PSI..... 4,877.24

**43 24 Suspended Liquid Pumps** <sup>(43 20)</sup>

**43 24 41 Archimedes Screw Pumps** <sup>(43 24)</sup>

**43 24 41 23 Positive-Displacement Inclined Closed-casing Archimedes Screw-type Pumps** <sup>(43 24 41)</sup>

**43 24 41 23-0001 Positive Displacement Pump** <sup>(43 24 41 23)</sup>

43 24 41 23-0002 EA 25 GPH Positive Displacement Pump, Adjustable Flow 0-100% 200 PSI Neoprene Packing..... 4,025.12

**43 40 Gas and Liquid Storage** <sup>(43)</sup>

**43 42 Pressurized Tanks And Vessels** <sup>(43 40)</sup>

**43 42 41 Metallic Specialty Pressure Tanks** <sup>(43 42)</sup>

**43 42 41 00-0001 L.P.G. Tanks With Regulator And Safety Controls** <sup>(43 42 41)</sup>

43 42 41 00-0002	EA	250 Gallon Aboveground LP Gas Storage Tank.....	2,135.61	135.24
43 42 41 00-0003	EA	500 Gallon Aboveground LP Gas Storage Tank.....	3,951.15	202.86
43 42 41 00-0004	EA	1,000 Gallon Aboveground LP Gas Storage Tank.....	5,658.50	216.38

**END OF SECTION 43**

**43 Process Gas and Liquid Handling, Purification, and Storage Equipment**

43 40 Gas and Liquid Storage

43 42 Pressurized Tanks And Vessels



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

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